

# TM 10-5419-206-13

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## TECHNICAL MANUAL

### OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FORCE PROVIDER

**FP MODULE, TAN:**

**NSN 5419-01-473-2297**

**FP MODULE, GREEN:**

**NSN 5419-01-473-2294**

**MODIFICATION SYSTEM (POWER GENERATION):**

**NSN 6120-01-516-6424**

**MODIFICATION SYSTEM (PRIME POWER):**

**NSN 6120-01-516-7538**

**MODIFICATION SYSTEM, COLD WEATHER:**

**NSN 4619-01-423-7427**



**DISTRIBUTION STATEMENT A** - Approved for public release; distribution is unlimited.

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**15 OCTOBER 2011**





## WARNING SUMMARY

This warning summary contains general safety warnings and hazardous materials warnings that must be understood and applied during operation of Force Provider equipment. Failure to observe these precautions could result in serious injury or death to personnel. Also included are explanations of safety and hazardous materials icons used within this technical manual.

### EXPLANATION OF SAFETY WARNING ICONS



**BIOLOGICAL** - abstract symbol bug shows that a material may contain bacteria or viruses that presents a danger to life or health.



**ELECTRICAL** - electrical wire to arm with electricity symbol running through human body shows that shock hazard is present.



**SHARP OBJECT** - pointed object in hand shows that a sharp object presents a danger to limb.



**HEAVY OBJECT** - human figure stooping over heavy object shows physical injury potential from improper lifting technique.



**CARBON MONOXIDE** - human figure in a cloud shows that vapors present a danger to life or health.



**FLYING PARTICLES** - Person with goggles shows that the material will injure the eyes.



**HEAVY PARTS** - hand with heavy object on top shows that heavy parts can crush and harm.



**HEAVY PARTS** - heavy object pinning human figure against wall shows that heavy, moving parts present a danger to life or limb.



**EXPLOSION** - rapidly expanding symbol shows that the material may explode if subjected to high temperatures, sources of ignition, or high pressure.



**FIRE** - flame shows that a material may ignite and cause burns.



**HOT AREA** - hand over object radiating heat shows that part is hot and can burn.



**ELECTRICAL** - electrical wire to hand with electricity symbol running through hand shows that shock hazard is present.



**CRYOGENIC** - hand in block of ice shows that the material is extremely cold and can injure human skin or tissue.



**CHEMICAL** - drops of liquid on hand shows that the material will cause burns or irritation to human skin or tissue.



FLYING PARTICLES - arrows bouncing off face with face shield shows that particles flying through the air will harm face.



EAR PROTECTION - headphones over ears shows that noise level will harm ears.



MOVING PARTS - hand with fingers caught between gears shows that the moving parts of the equipment present a danger to life or limb.



FLYING PARTICLES - arrows bouncing off face shows that particles flying through the air will harm face.

## GENERAL SAFETY WARNINGS DESCRIPTION

### WARNING



Carbon monoxide is without color or smell, but can kill you. Breathing carbon monoxide produces symptoms of headache, dizziness, loss of muscular control, a sleepy feeling, and coma. Brain damage or death can result from heavy exposure. Carbon monoxide occurs in the exhaust fumes of fuel burning heaters and internal combustion engines. Carbon monoxide can become dangerously concentrated under conditions of no ventilation.

Precautions must be followed to ensure operator's safety when equipment is in operation.

DO NOT operate carbon monoxide producing equipment such as generators or space heaters in an enclosed area without proper ventilation.

BE ALERT at all times during operation for carbon monoxide poisoning. If symptoms are present, IMMEDIATELY evacuate personnel to fresh air.

BE AWARE the field protection mask used for nuclear-biological-chemical attack WILL NOT protect you from carbon monoxide poisoning.

THE BEST DEFENSE AGAINST CARBON MONOXIDE POISONING IS GOOD VENTILATION.

### WARNING



Remove rings, bracelets, wristwatches, and neck chains before working around Force Provider equipment. Jewelry can catch on equipment and cause injury, or may short across an electrical circuit and cause severe burns or electrical shock.

### WARNING



Do not operate Force Provider equipment until properly grounded. Electrical faults in the equipment, load lines, or load equipment can cause death by electrocution from contact with an ungrounded system.

**WARNING**



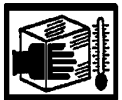
Do not make or change electrical connections while equipment is in operation. The voltage required by Force Provider equipment can cause death by electrocution. Keep power cable and extension cords connections elevated and away from moisture. Failure to observe this warning may result in death by electrocution.

**WARNING**



Ensure the power distribution cables are not frayed or damaged and do not lie in water. Serious injuries or electrocution could result.

**WARNING**



Do not touch cold metal parts with bare hands. Frostbite can cause permanent injury to personnel.

**WARNING**



Do not direct high-pressure water hose nozzles or steam cleaner nozzles into electrical connections/junction boxes. Electrical shock can kill you.

**WARNING**



Be careful not to come in contact with rotating belts or other moving parts. To do so will cause serious injury.

**WARNING**



Prevent fuel spills during refueling operations. Failure to observe this warning may result in serious injury or death to personnel. Fuels are toxic and flammable. Wear protective goggles and refuel only in a well-ventilated area. Avoid contact with skin, eyes, and clothes and don't breathe vapors. Do not use near open flame or excessive heat. If you become dizzy, get fresh air immediately and get medical aid. If contact with eyes or skin is made, immediately flush with clean water and get medical aid for eyes immediately.

**WARNING**



Do not mix potable water and graywater components. Serious health problems may result from contaminated water.

**WARNING**



Stay clear of containers during staging and lifting operations. Falling equipment may cause injury or death to personnel and damage to equipment.

**WARNING**



Exhaust ducts are hot. Avoid touching exhaust ducts during operation of Force Provider Equipment to prevent burns.

**WARNING**



Electrical high voltage cannot be seen, but it can kill you. Electricity is unlike most other dangerous things you can come in contact with because it gives no warning and no symptoms to be wary of. Its effect is immediate. It can kill you, render you unconscious, or severely burn you. To ensure your safety and that of other maintenance personnel, always observe the following precautions:

DO NOT perform any maintenance on electrical equipment unless all power is removed.

BE CERTAIN there is someone assisting you who can remove power immediately.

ALWAYS place POWER OFF warning tags on power supply switches so that no one will apply power while you are performing maintenance.

FOR ARTIFICIAL RESPIRATION, REFER TO FM 21 -11.

**WARNING**



Only qualified personnel may connect pigtails to power source. Failure to observe this warning may result in severe injury or death by electrocution.

**WARNING**



Wear eye protection and gloves while banding. Banding may break if operator does not release tension on handle when bending over buckle. Flying banding may cause severe injury to personnel.

**WARNING**



Do not touch cold metal surfaces with bare hands. Always wear gloves when operating gate valves, fill nozzles or any other metal control device. Painful injuries may result from touching super cold metal surfaces with bare hands.

**WARNING**



Some fuel spillage may occur whenever hose couplings are opened. Be prepared to collect residual fuel from hose with a pail and rags. Failure to observe this warning may result in fuel spillage.

**WARNING**



Do not over-tighten banding when turning handle. Banding may snap, causing severe injury.

**WARNING**



Wear ear protection while operating the engine to prevent hearing loss.

**WARNING**



Be careful not to pinch fingers while lowering the mast to the mast cradle.

**WARNING**



Wear safety goggles when installing adjuster and retractor springs to prevent injuries to personnel from flying objects.

**WARNING**



The exhaust stack sections have sharp edges. To prevent cuts, wear gloves when assembling the modified exhaust stack.

**WARNING**



When servicing the WWET/T, the tank must be at atmospheric pressure. To avoid injuries, open the manual relief valve before performing any service procedures.

**WARNING**



The self-priming diesel trash pump has an empty weight of 108 pounds. To prevent injury three persons are required to lift it. Lifting should be accomplished with legs, not backs.

**WARNING**



This modification system is intended to be set up and operated by an Army Prime Power Unit. The system generates and transmits high voltage electric power. Only qualified personnel may perform the procedures in this WP.



**TM 10-5419-206-13**

INSERT LATEST CHANGED PAGES / WORK PACKAGES. DESTROY SUPERSEDED DATA.

**LIST OF EFFECTIVE PAGES / WORK PACKAGES**

Note: The portion of text affected by the update is indicated by a vertical line in the outer margins of the page. Updates to illustrations are indicated by miniature pointing hands. Updates to wiring diagrams are indicated by shaded areas.

Dates of issue for original and updated pages/work packages are:

Original .. 15 October 2011

**TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 28 AND TOTAL NUMBER OF WORK PACKAGES IS 102 CONSISTING OF THE FOLLOWING:**

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a-f	0			
i-vi	0			
WP 0001 00 – 0102 00	0			
Index-1 – Index-4	0			

\*Zero in this column indicates an original page or work package.





HEADQUARTERS,  
DEPARTMENT OF THE ARMY  
WASHINGTON, D.C., 15 OCTOBER 2011

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**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this publication. If you find any errors, or if you would like to recommend any improvements to the procedures in this publication, please let us know. The preferred method is to submit your DA Form 2028 (Recommended Changes to Publications and Blank Forms) through the Internet on the TACOM Unique Logistics Support Applications (TULSA) Web site. The Internet address is <https://tulsa.tacom.army.mil>. Access to all applications requires CAC authentication, and you must complete the Access Request form the first time you use it. The DA Form 2028 is located under the TULSA Applications on the left-hand navigation bar. Fill out the form and click on SUBMIT. Using this form on the TULSA Web site will enable us to respond more quickly to your comments and to better manage the DA Form 2028 program. You may also mail, e-mail, or fax your comments or DA Form 2028 directly to the U.S. Army TACOM Life Cycle Management Command. The postal mail address is U.S. Army TACOM Life Cycle Management Command, ATTN: AMSTA-LCL-MPP/TECH PUBS, MS 727, 6501 E. 11 Mile Road, Warren, MI 48397-5000. The e-mail address is [tacomlcmc.daform2028@us.army.mil](mailto:tacomlcmc.daform2028@us.army.mil). The fax number is DSN 786-1856 or Commercial (586) 282-1856. A reply will be furnished to you.

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## HOW TO USE THIS MANUAL

### HOW TO OBTAIN TECHNICAL MANUALS

When a new system is introduced to the Army inventory, it is the responsibility of the receiving units to notify and inform the Unit Publications Clerk that a Technical Manual is available for the new system. Throughout the life cycle of the new system, the Distribution Center DOL-W will also provide updates and changes to the Technical Manual.

To receive new Technical Manuals or change packages to existing Technical Manuals (TM) for fielded equipment, provide the Unit Publications Clerk the full Technical Manual number, title, date of publication, and number of copies required. The Unit Publications Clerk will justify the request through the Unit Publications Officer. When the request is approved, the Unit Publications Clerk will use DA Form 12-R to order the series of Technical Manuals from the Army Publishing Directorate (APD).

Instructions for Unit Publications Clerk

Obtain DA Form 12-R and request a publications account from the APD Web site at <http://www.apd.army.mil>. Once on the Website, click on the "Orders/Subscriptions/Reports" tab. From the dropdown menu, select "Establish an Account," then select "Tutorial" and follow the instructions in the tutorial presentation.

Complete information for obtaining Army publications can be found in DA PAM 25-33.

### ORGANIZATION OF THIS MANUAL

This Manual contains general information, operating, and maintenance instructions for the Force Provider system.

- Work Package 0001 00 contains general information on the Force Provider system and this manual, including the scope of the TM, the purpose of the Force Provider system, and lists of applicable nomenclature, abbreviations, and acronyms.
- Chapter 1 contains descriptions of the Force Provider System and its associated equipment as well as a Theory of Operation.
- Chapter 2 includes operating instructions under usual and unusual conditions.
- Chapter 3 contents include operator and unit maintenance troubleshooting.
- Chapter 4 contains PMCS and maintenance instructions.
- Chapter 5 contains unit maintenance instructions.
- Chapter 6 contains direct support maintenance instructions.
- Chapter 7 contains references and other supporting information.

## Manual Organization and Page Numbering System

This manual is divided into seven major chapters that detail the topics mentioned above. Within each chapter are work packages covering a wide range of topics. Each work package is numbered sequentially starting with 1. The work package has its own page numbering scheme and is independent of the page numbering used by other work packages. Each page of a work package has a page number of the form XXXX YY-ZZ where XXXX is the work package number (e.g. 0010 is work package 10) and YY is reserved to permit unlimited expansion of the TM to incorporate a new configuration data without affecting the WP sequence numbers already assigned, and to permit adding one or more WPs between any two existing WPs during any revision cycle. ZZ represents the number of the page within that work package. A page number such as 0100 00-1/2 blank means that page 1 contains information but page 2 of that work package has been intentionally left blank.

## Finding Information

The Table of Contents permits the reader to find information in the manual quickly. The reader should start here first when looking for a specific topic. The Table of Contents lists the topics contained within each chapter and the Work Package Sequence Number where it can be found.

Example: If the reader were looking for instructions on “Preventive Maintenance Checks and Services”, which is an Operator Maintenance topic, the Table of Contents indicates that Maintenance Instructions can be found in Chapter 4. Scanning down the listings for Chapter 4, “Preventive Maintenance Checks and Services” information can be found in WP 0029 00 (i.e. Work Package 29).

There is not a Glossary at the back of the Manual.

An Alphabetical Index can be found at the back of the Manual. It lists specific topics with the corresponding work package.

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**FORCE PROVIDER  
GENERAL INFORMATION**

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**SCOPE**

This manual provides descriptive, operational, maintenance, and planning information for the employment of Force Provider (FP) and related equipment.

Operating and maintenance procedures for equipment used with FP but covered in separate Technical Manuals (TMs), or Repair Parts and Special Tools Lists (RPSTLs), are not covered in this manual. Refer to Work Package (WP) 0081 00 or WP 0083 00 as a reference guide to these publications.

FP may be augmented with a variety of Modification Systems (MS) to suit climatic and power supply requirements.

FP is non-organizational equipment and must be requested through Army support channels.

**Type of Manual:**

Operator's, Unit, and Direct Support Maintenance.

**Purpose of Equipment:**

FP is a collection of military and commercial equipment assembled to form a field camp that includes climate controlled shelter, sanitary, dining, and laundry facilities, as well as administrative and recreational services for up to 550 soldiers.

**MAINTENANCE FORMS, RECORDS, AND REPORTS**

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-751, Functional Users Manual for The Army Maintenance Management System (TAMMS) (Maintenance Management Update).

**REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)**

If your FP needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on a Standard Form (SF) 368, Product Quality Deficiency Report (PQDR). Mail it to us at: TACOM Life Cycle Management Command, Attn: AMSTA-LCL-MPP/TECH PUBS, 1 Rock Island Arsenal Rock Island, IL 61299-7630. A reply will be directly furnished to you.

**CORROSION PREVENTION AND CONTROL (CPC)**

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with FP be reported so problems can be corrected and improvements made to prevent the problem in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using SF 368, PQDR. Use of key words such as "corrosion", "rust", "deterioration", or "cracking" will assure the information is identified as a CPC problem. This form should be submitted to the address specified in DA Pam 738-751.

## DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Destruction of Army life support equipment to prevent enemy use shall be in accordance with TM 750-244-1-2.

## SAFETY, CARE AND HANDLING

Adherence to procedures appearing in this manual and specific observance of WARNINGS, CAUTIONS and NOTES within this manual is mandatory. Failure to observe these precautions may result in injury or death to personnel and/or damage to equipment.

## NOMENCLATURE CROSS-REFERENCE LIST

COMMON NAME	OFFICIAL NAME
ASH .....	Army Space Heater
CBL .....	Containerized Batch Laundry
CLS .....	Containerized Latrine System
CSS .....	Containerized Shower System
ECU .....	Environmental Control Unit
PDISE .....	Power Distribution Illumination System, Electrical
FPFS .....	Force Provider Fuel System
FSC .....	Food Sanitation Center
MS .....	Modification System
MSCW .....	Modification System, Cold Weather
MSPG .....	Modification System (Power Generation)
MSPP .....	Modification System (Prime Power)
M-80 .....	Heater, Water, Liquid Fuel, M-80
PDISE M-100 .....	Power Distribution Illumination System, Electrical, 100 Amp
SEP .....	Sewage Ejection Pump / Waste Water Evacuation
TEMPER .....	Tent, Expandable, Modular, Personnel
TQG .....	Tactical Quiet Generator
TRICON .....	Storage Container, Triple
WWET/T .....	Wastewater Evacuation Tank Trailer

## MODULE REPACKING INSTRUCTIONS

FP subsystem field packing instructions described in WP 0039 00 through WP 0054 00 provide procedures for repacking equipment for return or redeployment shipment of each subsystem. Due to consumption during operation, some materials, spare parts, as well as discretionary and expendable items may not be available for return shipment at all, or in quantities other than indicated in the packing instructions. In addition, used cleaning implements, and recreational and sports items should not be returned but locally disposed of.

In some cases, originally shipped equipment items may have been replaced with new, and/or differently configured items. Under these conditions, follow the packing instructions as closely as possible. Return-ship any new equipment received in place of the original, and, where necessary, fill empty spaces in the TRICON with additional dunnage available.

It is important that reusable containers, pallets, crates, and other packing/shipping equipment (identified in WP 0003 00) be retained after initial unpacking. This equipment should be stored inside the TRICON. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL (TM 10-5419-206-23P, WP 0002 00).



**LIST OF ABBREVIATIONS AND ACRONYMS**

°C.....	Degree Centigrade
°F.....	Degree Fahrenheit
A.....	ampere
AAFES.....	Army/Air Force Exchange System
Admin.....	Administration
BII.....	Basic Issue Item
BTU.....	British Thermal Unit
BTUH.....	British Thermal Unit per hour
CAGE, CAGEC.....	Commercial and Government Entity Code
CBL.....	Containerized Batch Laundry
CBRN.....	Chemical, Biological, Radiological, and Nuclear
CLS.....	Containerized Latrine System
CSS.....	Containerized Shower System
CO <sub>2</sub> .....	Carbon dioxide
COEI.....	Component of End Item
CPC.....	Corrosion Prevention and Control
dia, DIA.....	Diameter
doz., dz.....	Dozen
ECU.....	Environmental Control Unit
EK.....	Electric Kitchen
EPT.....	External Pipe Thread
EIR.....	Equipment Improvement Recommendation
FC.....	Female Coupling
FDECU.....	Field Deployable Environmental Control Unit
FPFS.....	Force Provider Fuel System
FSC.....	Food Sanitation Center
FSCM.....	Federal Supply Code for Manufacturers
GFCI.....	Ground fault circuit interrupt
GPD.....	Gallons per day
GPM.....	Gallons per minute
Hz.....	Hertz
ISO.....	International Organization for Standardization
k.....	Thousand
kw.....	Kilowatt (1,000 Watts)
Kilovolt	
MC.....	Male Coupling
MTOE.....	Modified Table of Organization and Equipment
MWO.....	Modification Work Order
MWR.....	Morale, Welfare, & Recreation
NBC.....	Nuclear, Biological, Chemical
NEMA.....	National Electrical Manufacturers Association
NPT.....	National Pipe Thread
NSN.....	National Stock Number

**LIST OF ABBREVIATIONS AND ACRONYMS – CONTINUED**

OCONUS.....	Outside Continental United States
OSHA .....	Occupational Safety and Health Administration
PDISE.....	Power Distribution Illumination System, Electrical
POL .....	Petroleum, Oil and Lubricant
ppm .....	Parts Per Million
psi.....	Pounds per square inch
PVC .....	Polyvinyl Chloride
QA .....	Quality Assurance
QDISC .....	Quick Disconnect
RPM .....	Rotation per minute
RPSTL.....	Repair Parts and Special Tools List
SAE .....	Society of Automotive Engineers
SES .....	Sewage Ejection System
SSP .....	System Support Package
STB .....	Super Tropical Bleach
t/min.....	Rotations (or revolutions) per minute
TEMPER .....	Tent, Extendable, Modular, Personnel
TMDE .....	Test, Measurement, and Diagnostic Equipment
TOE .....	Table of Organization and Equipment
TQG.....	Tactical Quiet Generator
TRICON.....	Triple Container
U/I.....	Unit of Issue
U/M.....	Unit of Measure
UOC .....	Usable On Code
VCR.....	Video Cassette Recorder
WQAS-P.....	Water Quality Analysis Kit- Purification
WWET/T .....	Waste Waster Evacuation Tank/Trailer

**CHAPTER 1**  
**DESCRIPTION AND THEORY OF OPERATION**  
**FOR**  
**FORCE PROVIDER**



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**FORCE PROVIDER  
EQUIPMENT DESCRIPTION AND DATA**

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**EQUIPMENT CHARACTERISTICS, CAPABILITIES AND FEATURES****Characteristics:**

- Utilizes standard Department of Defense (DoD) inventory components.
- Land, sea, air, and rail transportable using International Organization for Standardization (ISO) containers.
- The FP requires a (approximate) 6- to 12-acre site (in a non-dispersed situation).
- Fully containerized.
- Pre-positioned.
- Available in desert tan and woodland green.
- Can be augmented with the following modification systems to meet climatic and/or local situations:
  - Modification System (Power Generation) (MSPG)
  - Modification System (Prime Power) (MSPP)
  - Modification System, Cold Weather (MSCW)

**Capabilities:**

- Can serve as rest and recuperation facility for up to 550 soldiers.
- Can serve as reception station capability for Outside Continental (OCONUS) deployments.
- Can serve as intermediate staging base.
- Can serve as redeployment staging facility
- Can serve as emergency shelter and community level support for disaster relief operations.
- Can serve as reconstitution facility.
- Is prepackaged and ready for immediate shipment.
- Can be deployed in standard configuration to arid and temperate climates above 32<sup>0</sup> F.
- Can be deployed if augmented with the MSCW in temperatures to minus 15<sup>0</sup> F.

**Features:**

- Climate controlled TEMPER.
- Sanitary facilities including shower, latrine, and laundry.
- Dining facilities for three hot meals daily.
- Flexible layout.



**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS –  
TRANSPORTATION AND STORAGE CONTAINER SUBSYSTEM**

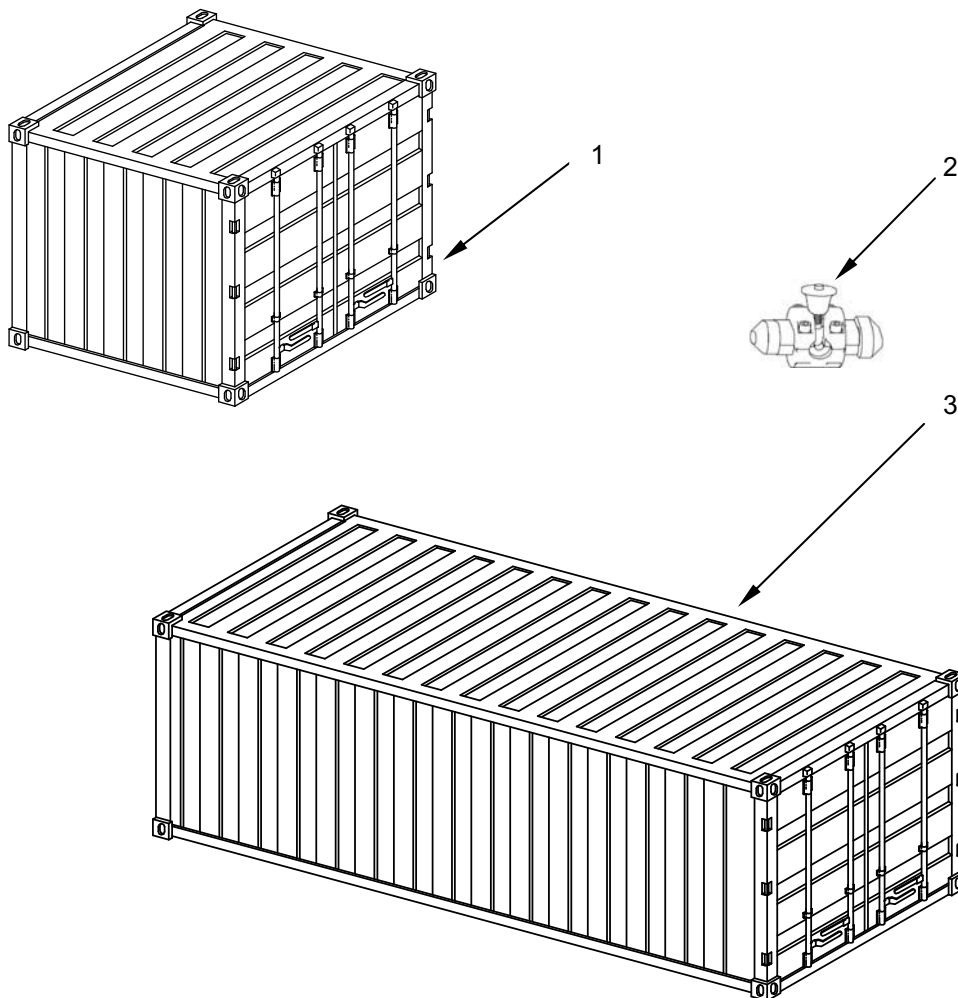
**TRANSPORTATION AND STORAGE CONTAINER SUBSYSTEM**

The Transportation and Storage Container Subsystem consists of the TRICON (1) containers with connector links (2), and the ISO (3) containers, as well as other, reusable packing containers and equipment identified in this WP. An FP Module is shipped in 80 TRICON and 10 ISO Containers.

**Table 1. Shipping Containers/Equipment.**

Item #	Type Container	NSN
1	Container, Shipping and Storage-Triple (Green)	8145-01-475-9570
	Container, Shipping and Storage-Triple (Tan)	8145-01-475-9570
2	Connector Link	3040-01-387-4048
3	Container, Shipping, ISO, 20-Foot (Green)	8145-01-488-6545
	Container, Shipping, ISO, 20-Foot (Tan)	8145-01-488-6545

Once emptied at destination, ISO and TRICON containers can be co-located with the subsystems to which they are assigned to support operations and storage functions as needed. Otherwise, they can be staged out of the way at a central location for retrieval prior to repacking. They can also be used for perimeter protection.



The following reusable containers and additional equipment are part of the Transportation and Storage Container Subsystem:

**Table 2. Reusable Containers/Equipment.**

Item #	Type Container/Equipment	Drawing	CAGE
4	Shelf, Shipping and Storage (TRICON) (NSN 8145-01-503-4404)	1041A	09PD1
5	Shoring Beam, (TRICON) (NSN 9540-01-491-3804)	FE-8066-067-078	09PD1
6	Container, Reusable, Bulk Equipment, Half Size, General Purpose	9-1-0140-1	81337
7	Container, Reusable, Bulk Equipment, Half Size	9-1-0140-2	81337
8	Container, Reusable, Bulk Equipment, Commercial	9-1-0141-1	81337
9	Container, Reusable, Bulk Equipment, Small	9-1-0142-1	81337
10	Container, Reusable, Bulk Equipment, Medium	9-1-0142-2	81337
11	Brace, Lumber, 2-inch x 6-inch x 75¾-inch	9-1-0771	81337
12	Container, Reusable, Cover 42 x 69 ½-inch	9-1-0758-1	81337
	Container, Reusable, Cover 55 x 69 ½-inch	9-1-0758-2	81337
	Container, Reusable, Cover 35 x 42-inch	9-1-0758-3	81337
	Container, Reusable, Cover 69 ½ x 84-inch	9-1-0758-4	81337
13	Special Purpose Web Tiedown (NSN 3990-01-204-3009)	FDC57705	98313
14	ECU Pallet	9-1-0751	81337
15	Modified ASH Pallet	9-1-0767	(81337)
16	Transformer Skid	9-1-0754	(81337)
17	Wood Crate (Weightlifting Equipment)	9-1-0770	(81337)

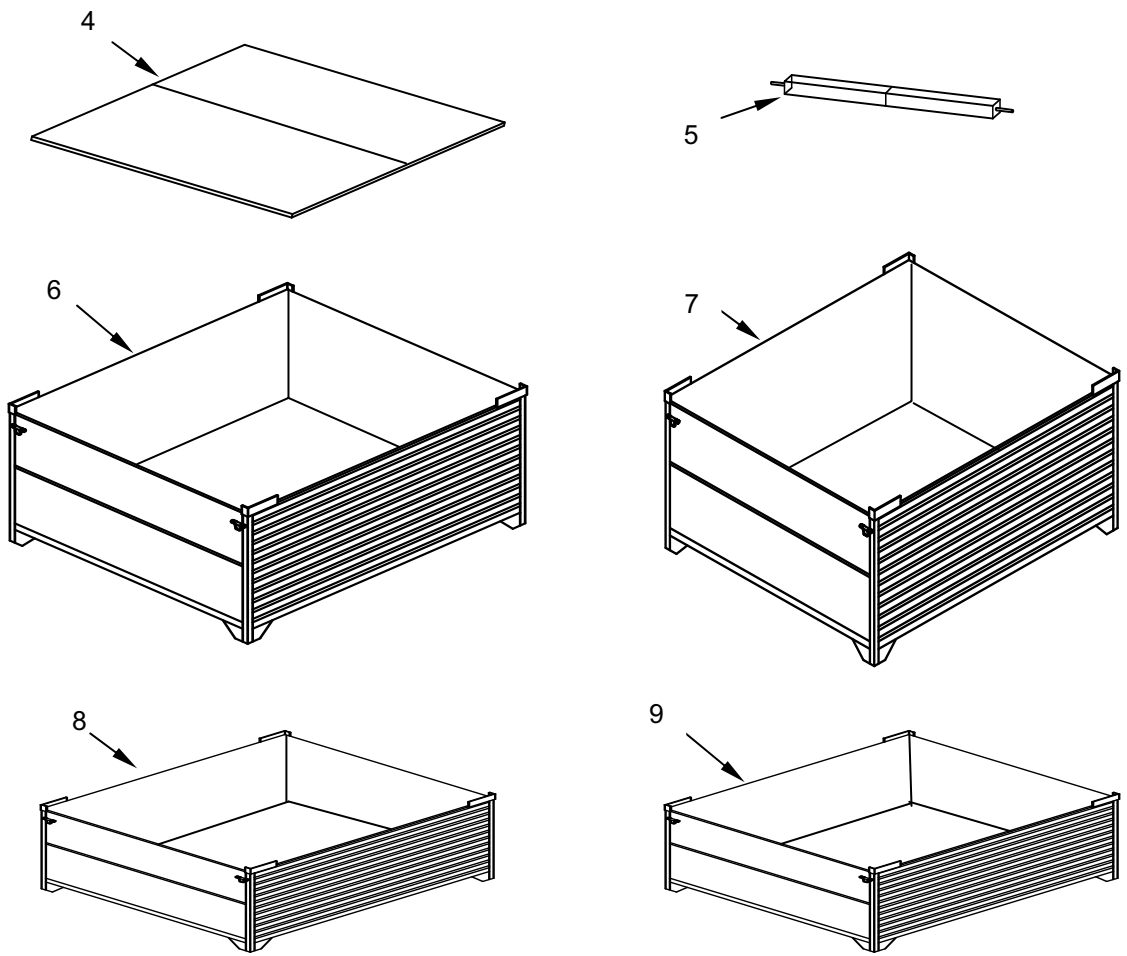
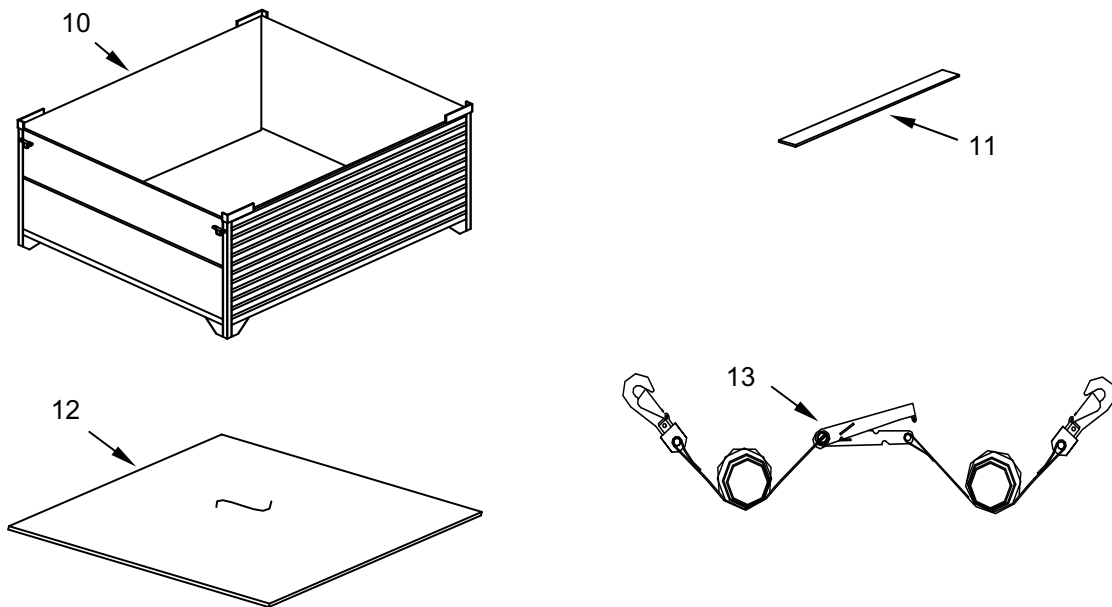
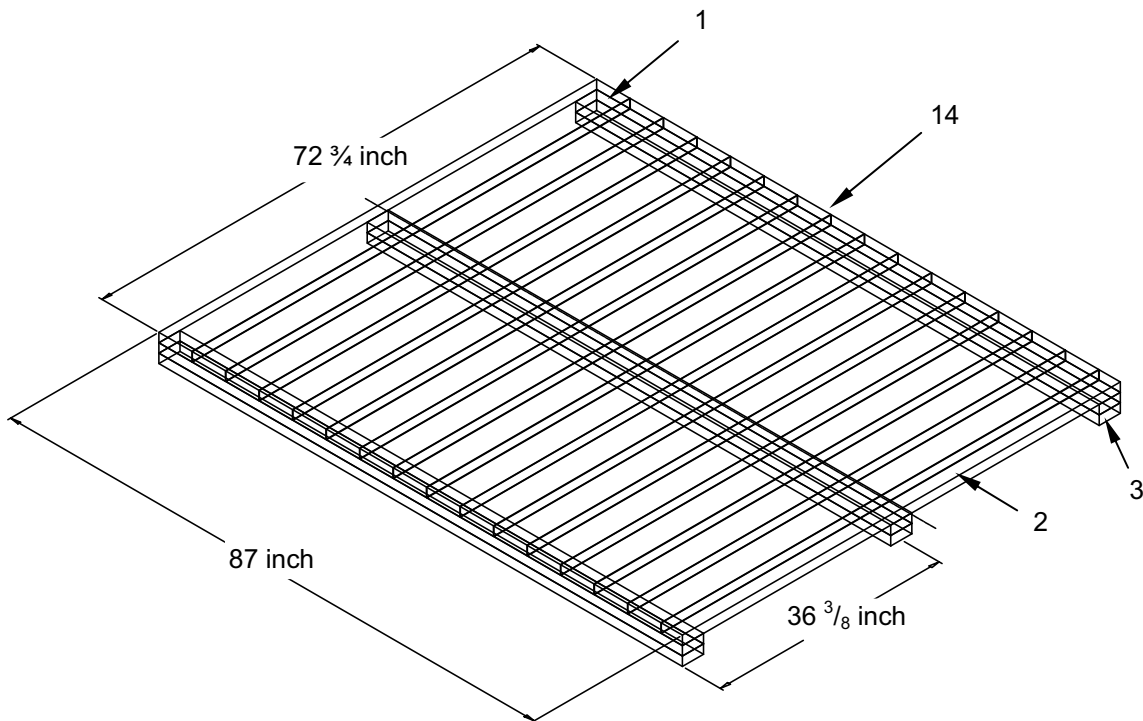




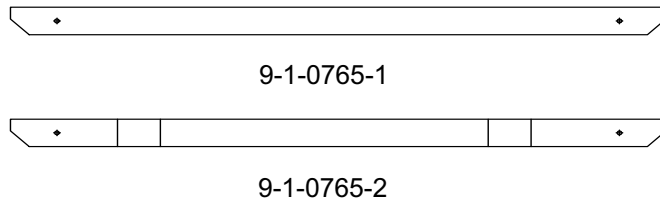
Table 2. Reusable Containers/Equipment – Continued.



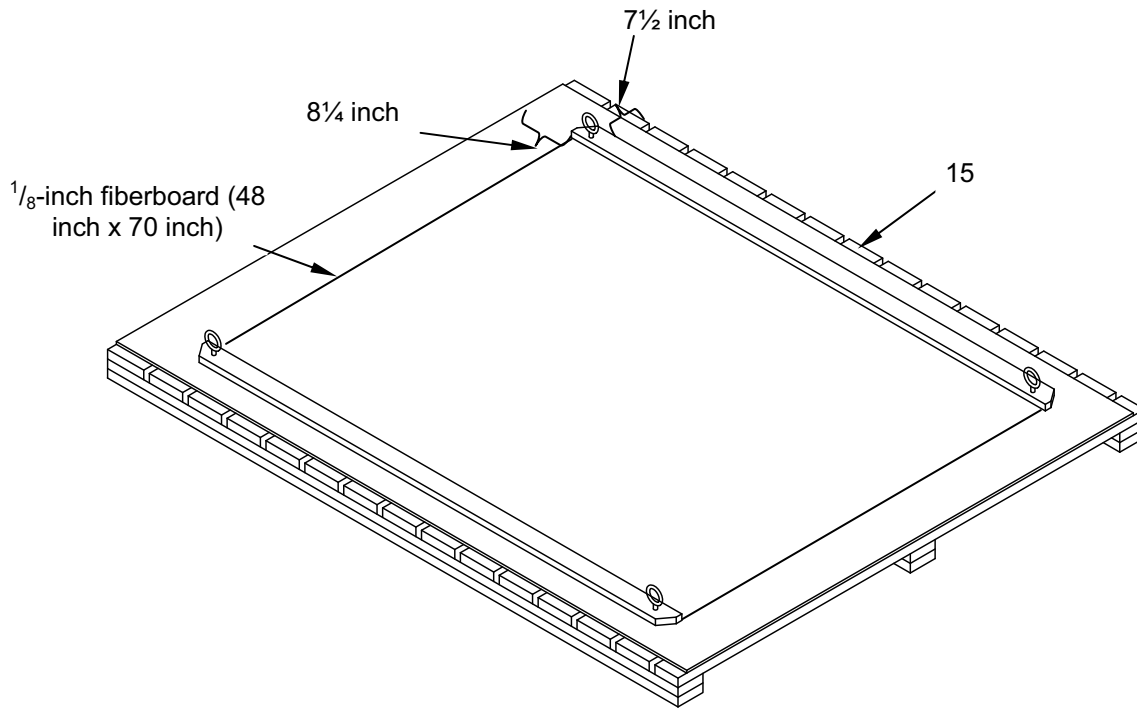
The wooden ECU pallet (14) is used to ship various equipment and material inside the TRICON. Air conditioners and or other equipment may be positioned for use on pallets to provide a level platform and protection from contact with the soil. When the pallets become unusable for repacking equipment, new ones must be prepared using 2-inch x 6-inch (1), and 2-inch x 4-inch (2) heat treated, parasite-free pine wood in the lengths shown below. Use #6D common, galvanized nails to assemble the pallet. Refer to Drawing 9-1-0751 (81337) for specific assembly instructions.



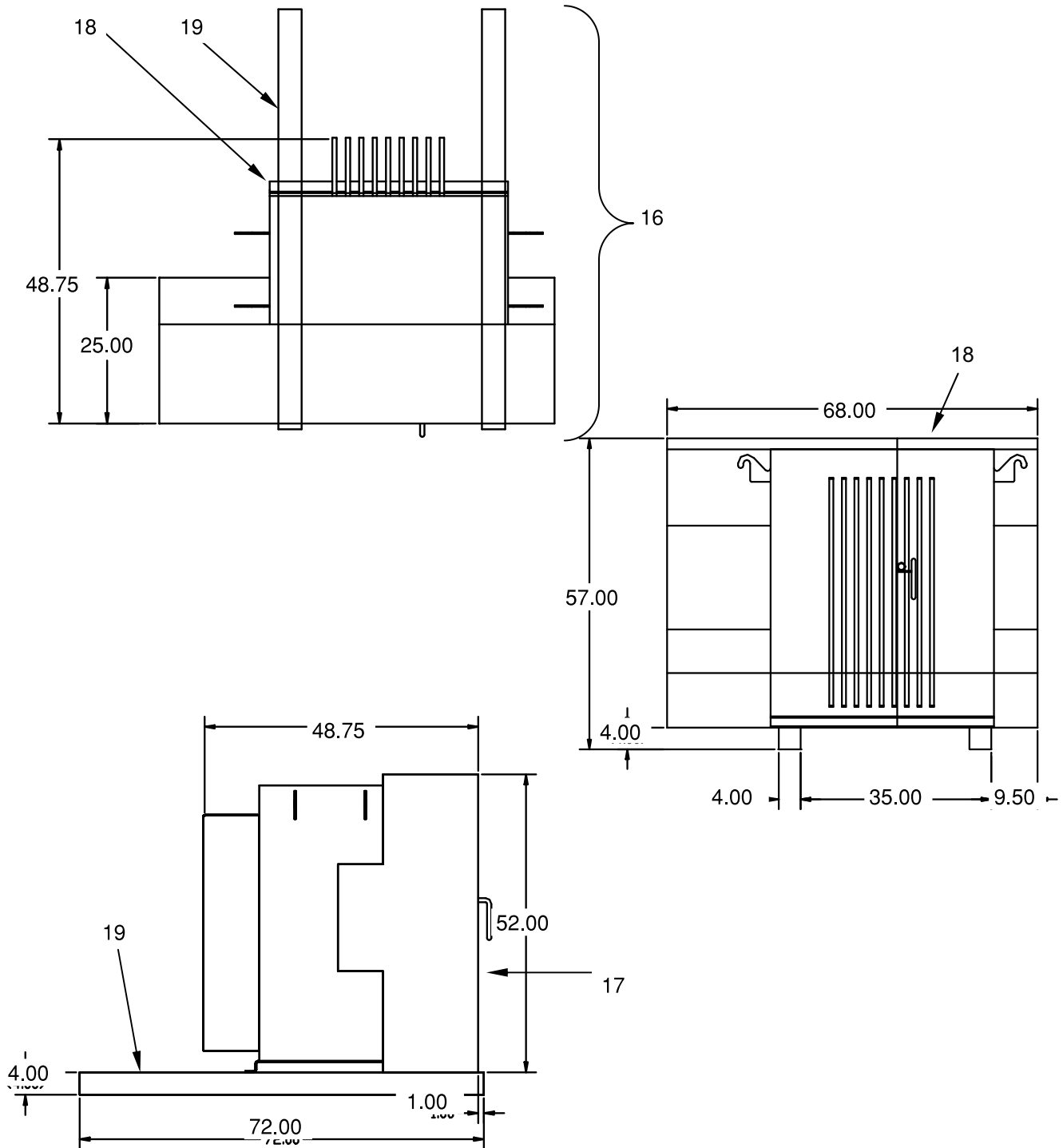
A modified pallet (15) is used to ship the Army Space Heaters (ASH) in TRICON 41A that are used with the MSCW, and the refrigerators in TRICON 11G used with MWR. Using a standard wood pallet (14) two spacers are used as specified in drawings shown to secure the heaters to the pallet.



Position the spacers as shown, 7½ inch from the side and 8¼ inch from the front of the pallet. Install eyebolts through spacers and pallet using a lock nut, washer, and rubber gasket as specified on drawing 9-1-0767 (81337).



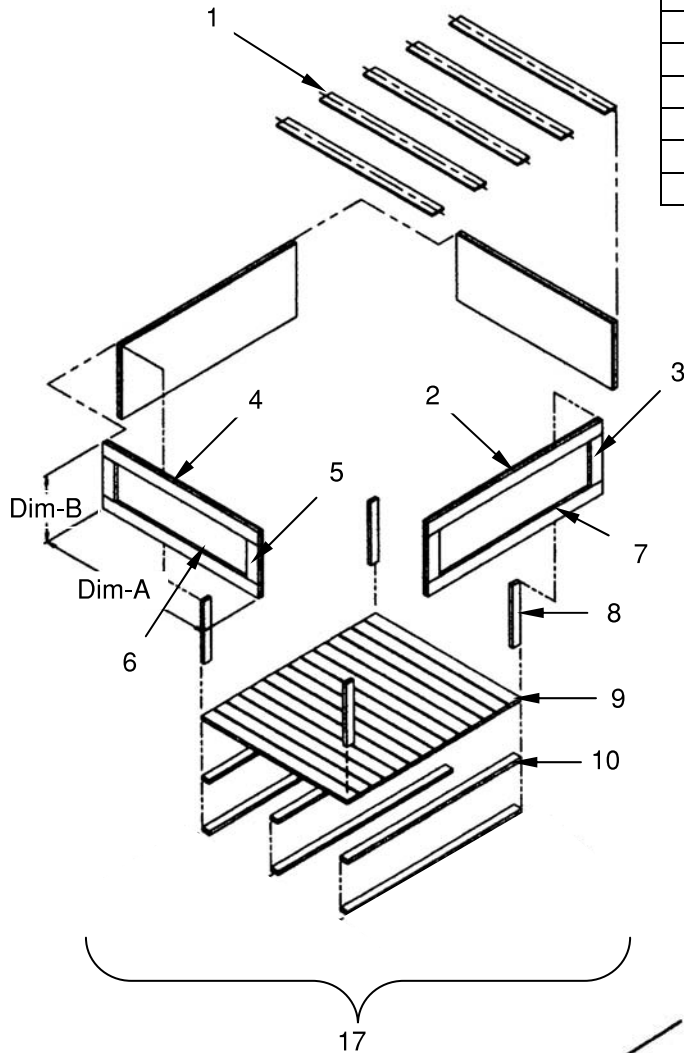
The transformer skid (16) is used to ship the transformers (18) used with the Prime Power Modification System inside TRICON 31A and 31C and to provide a level platform and protection from contact with the soil when deployed. When the pallets become unusable for repacking equipment, new ones must be prepared using 4-inch x 4-inch x 72-inch (19) wood beams, 1/4-inch, corrosion resistant steel (CRES), 2-inch long lag bolts, and 1/4-inch CRES flat washers. Refer to Drawing 9-1-0754 (81337) for specific assembly instructions.



The wood crate illustrated below (17) is used to ship the weight-lifting equipment in TRICON 11H, part of the MWR Subsystem. Refer to drawing 9-1-0770 (81337) for specific assembly instructions.

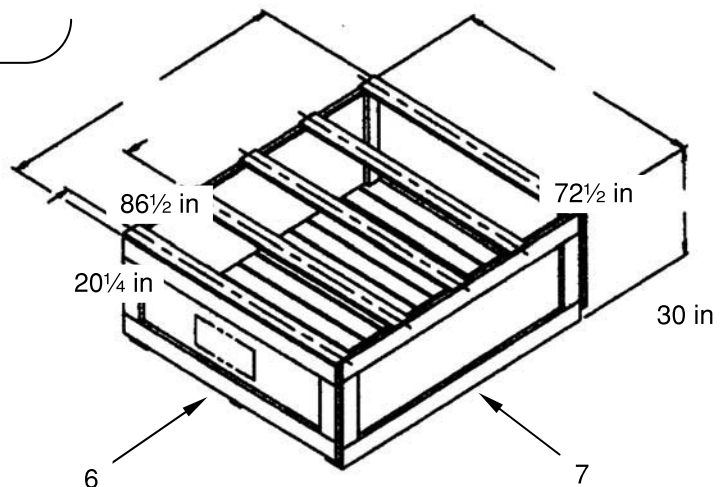
**Table 3. Wood Crate Materials**

Find	Description	Qty
1	1 inch x 6 inch x 72½ in	5
2	1 inch x 6 inch x 83½ in	4
3	1 inch x 6 inch x 19 in	4
4	1 inch x 6 inch x 72½ in	4
5	1 inch x 6 inch x 16 in	4
6	27 inch W x 72½ in L (Small Panel)	2
7	30 in W x 83½ inch L (Large Panel)	2
8	2 inch x 4 inch x 25½ inch	4
9	2 inch x 6 inch x 69½ inch	14
10	2 inch x 4 inch x 83½ inch	6
11	Nails Common 6D (2-in) Galvanized	AR



Panel Size	Dim-A	Dim-B
Small	72 ½ in	27 in
Large	83 ½ in	30 in

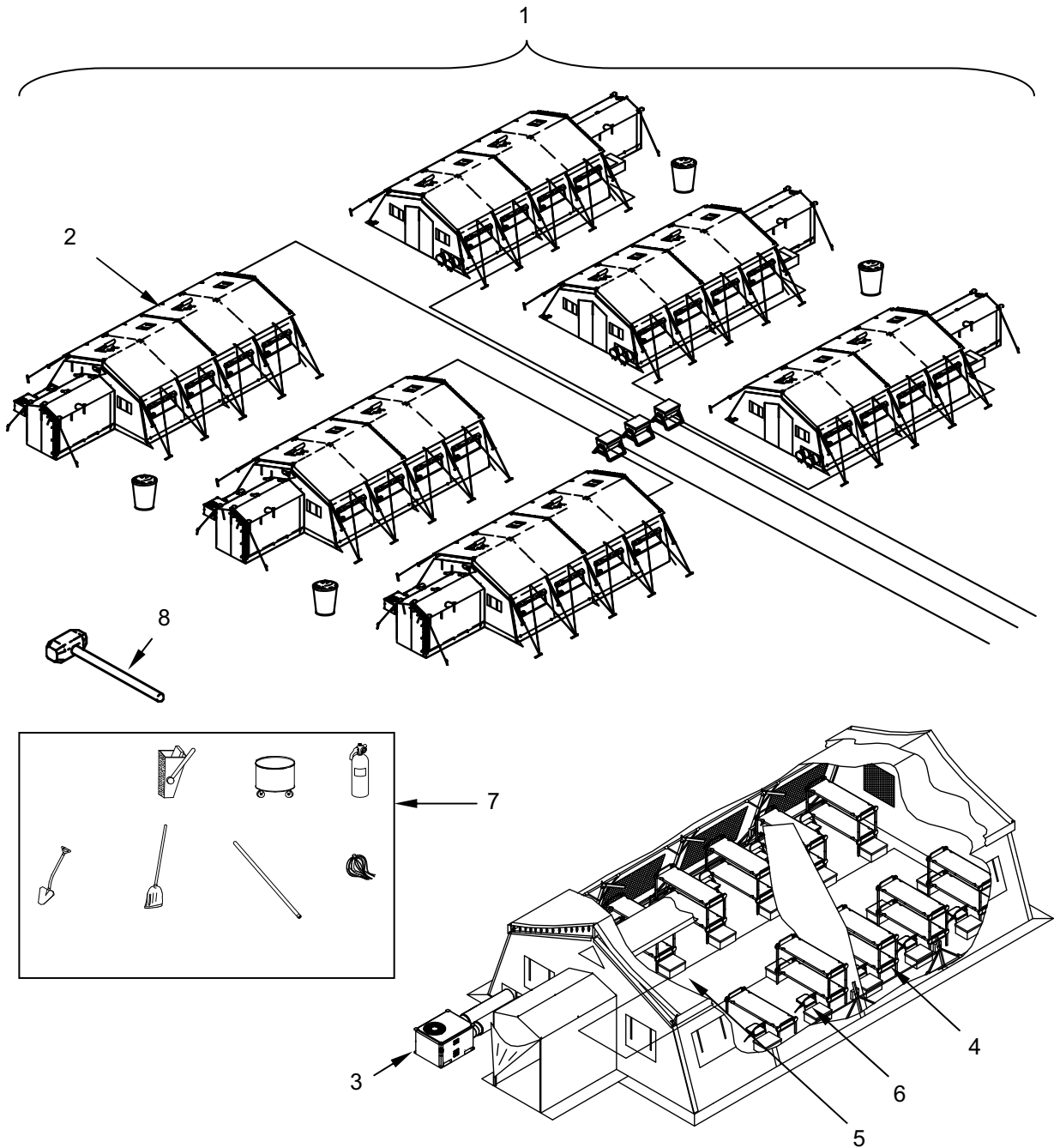
Material shall be heat treated, parasite-free pine board conforming to ALSC Standards



**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - BILLETING SUBSYSTEM**

**BILLETING SUBSYSTEM**

A billeting group (1) consists of six, Type IV, 20-foot x 32-foot, TEMPER (2). An ECU (3) is installed in each TEMPER. There are five billeting groups (1) in an FP module, totaling 30 TEMPER. Each billeting TEMPER has 19 beds (4) and 19 footlockers (5), 10 chairs (6), and cleaning equipment and supplies (7) for the interior. Three sledge hammers (8) per billeting group are available.

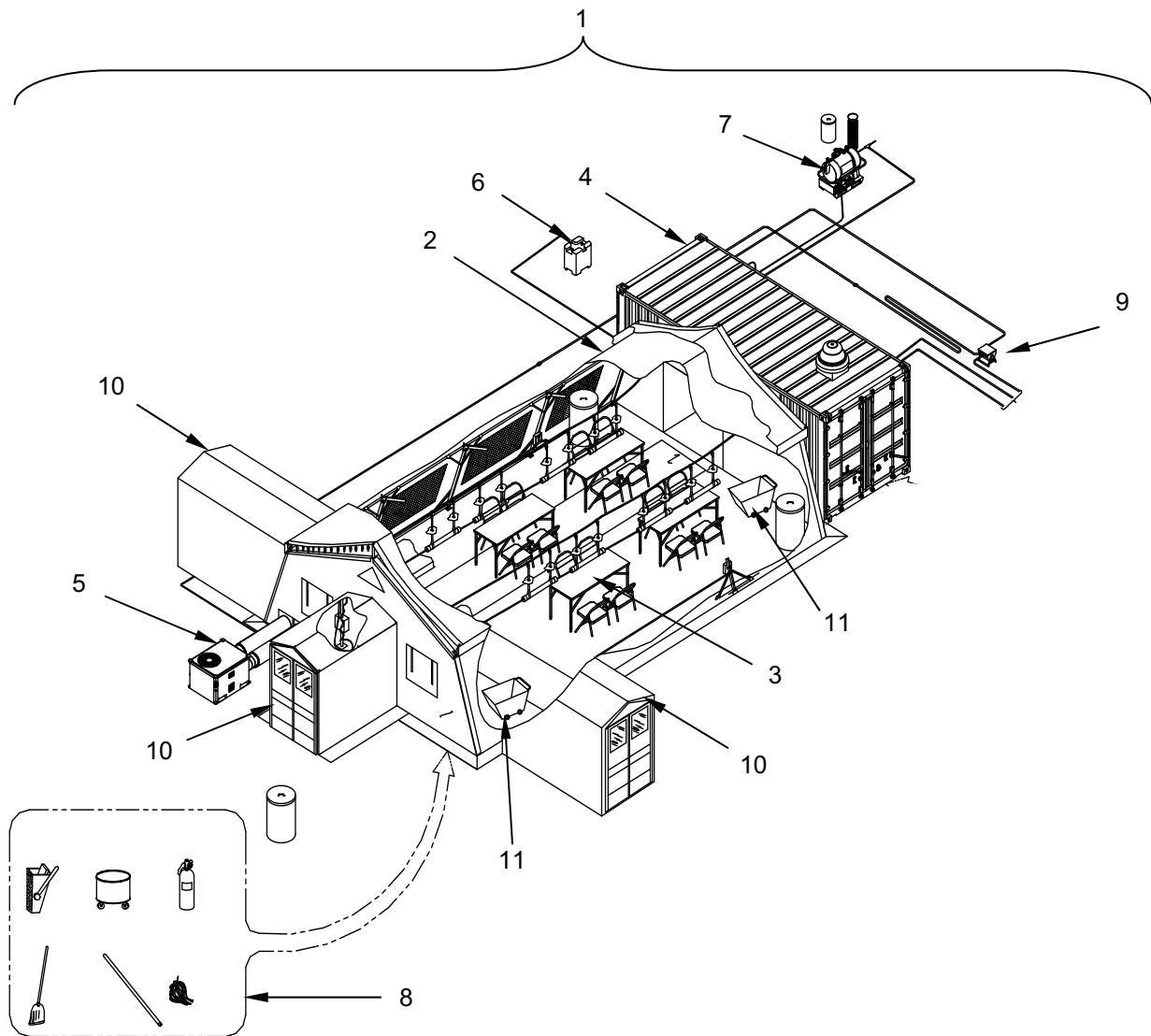




**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - LAUNDRY SUBSYSTEM**

**LAUNDRY SUBSYSTEM**

The Force Provider laundry subsystem (1) is composed of one Type XIX, 20-foot x 32-foot TEMPER (2) with furniture (3), one Containerized Batch Laundry (CBL) (4), an ECU (5), a sewage ejector pump (SEP) (6), an M-80 water heater (7), and cleaning equipment and supplies (8). The CBL (4) houses two commercial-duty washers and dryers mounted in a 20-foot ISO container. The laundry subsystem is powered through a shared PDISE (9), supplied with the latrine subsystem. Two 3,000-gallon collapsible fabric water storage tanks are provided for use when a pressurized water supply is not available. Three vestibules (10) provide entry into the facility. Laundry carts (11) are provided for sorting laundry.



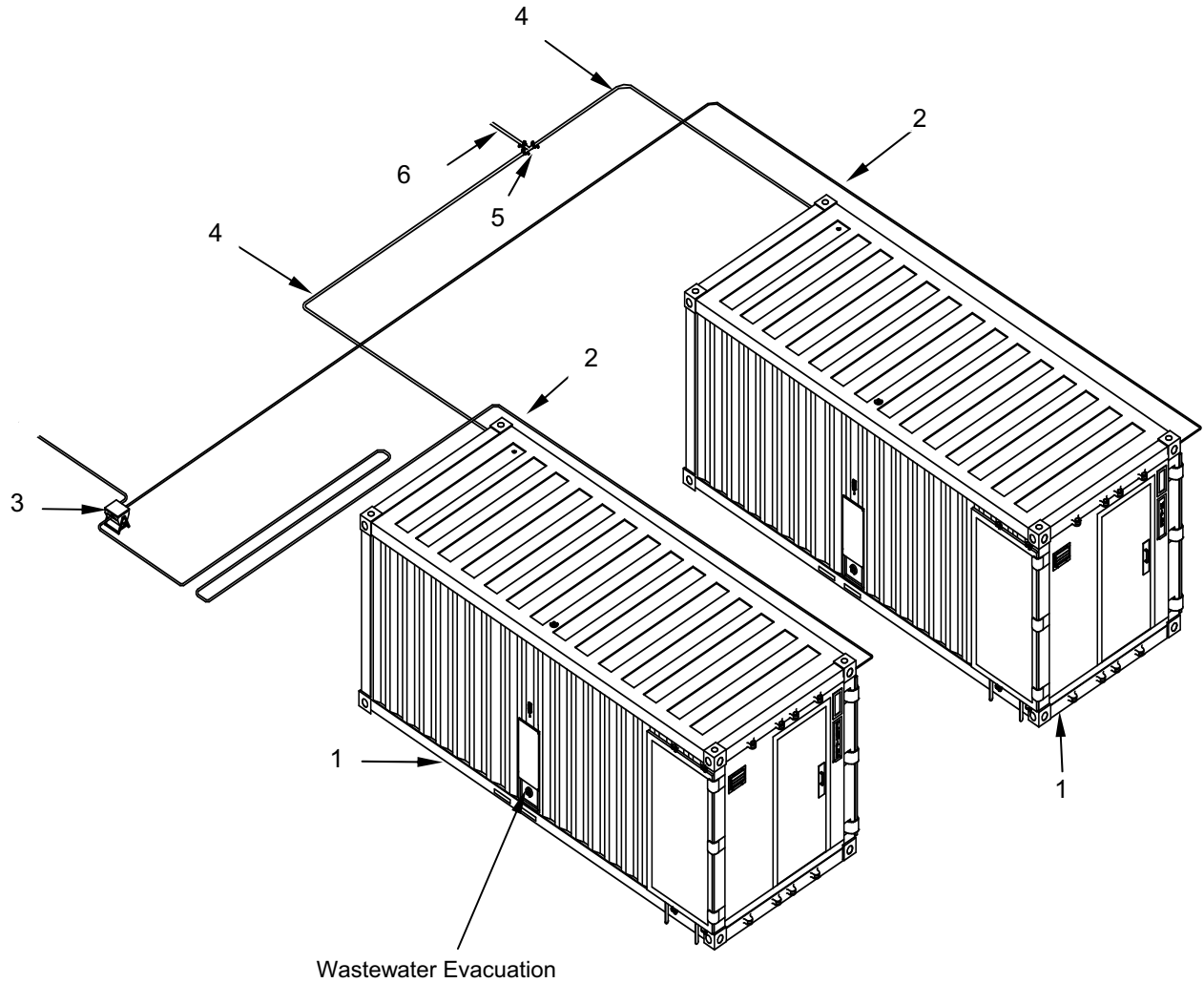




**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - LATRINE SUBSYSTEM**

**LATRINE SUBSYSTEM**

Each of two latrine sites consists of two Containerized Latrines (CL) (1) each with 60-A/100-foot power cables (2), connecting to a PDISE (3). Water supply hoses (4) with appropriate fittings (5) facilitate connection to the water distribution subsystem (6).



**WASTEWATER EVACUATION TANK TRAILER (WWET/T)**

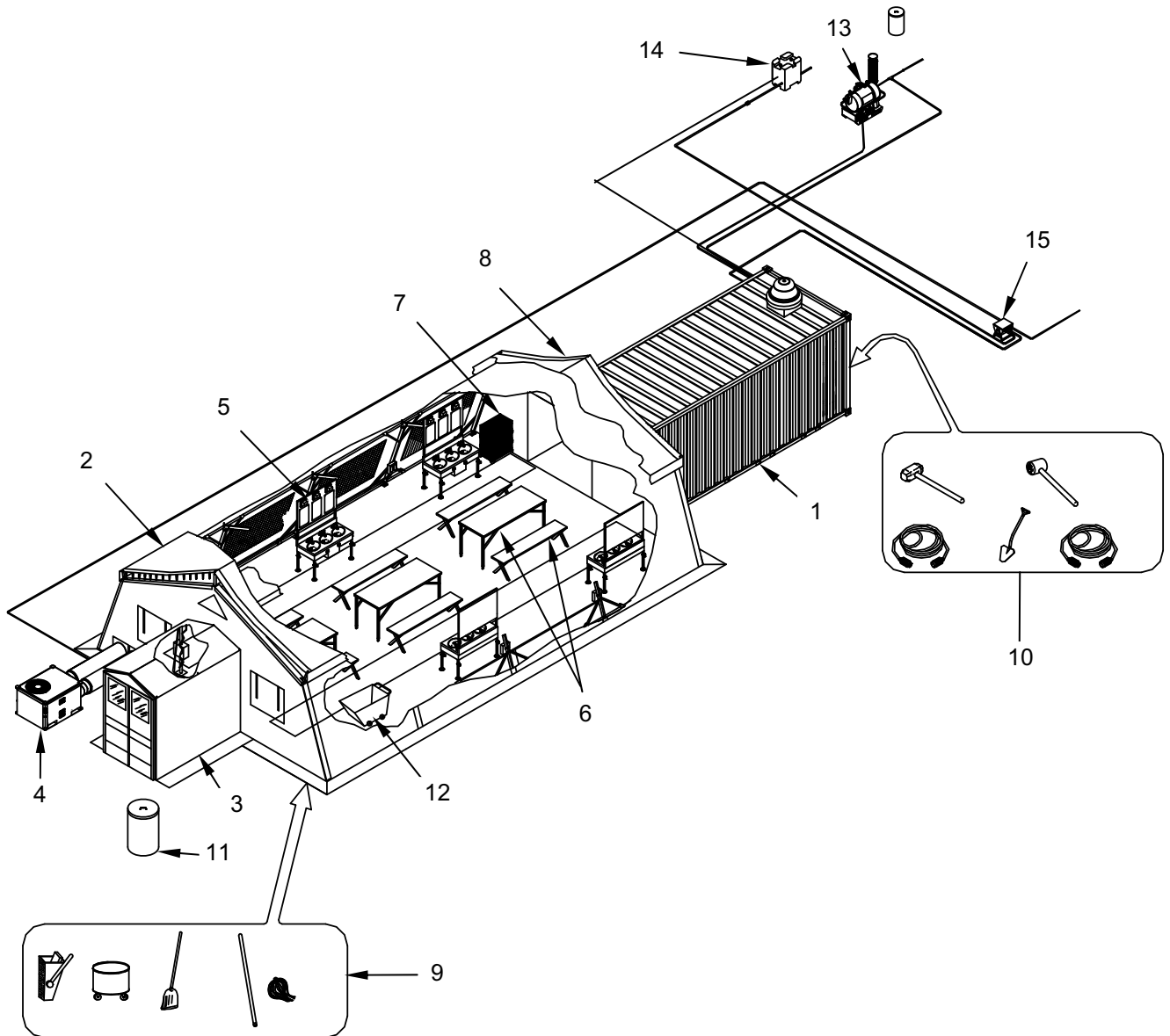
Two WWET/Ts are provided for the evacuation of accumulated wastewater from the containerized latrines. In the event the latrines are connected directly to a municipal sewer system, or commercial evacuation has been arranged, the WWET/T is not needed.



**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - SHOWER SUBSYSTEM**

**SHOWER SUBSYSTEM**

Each of two shower sites consists of a Containerized Shower System (CSS) (1) containing twelve shower stalls, attached to a Type XIX, 20-foot x 32-foot TEMPER (2) with vestibule (3). The TEMPER is equipped with an ECU (4), four shave stands (5), tables and benches (6) a storage and drying rack (7) and modified TEMPER end wall (8). Cleaning equipment (9), hand tools (10), trash can (11), and laundry carts (12) are also provided. The shower subsystem includes an M-80 water heater (13), a SEP (14), and PDISE M100 (15).

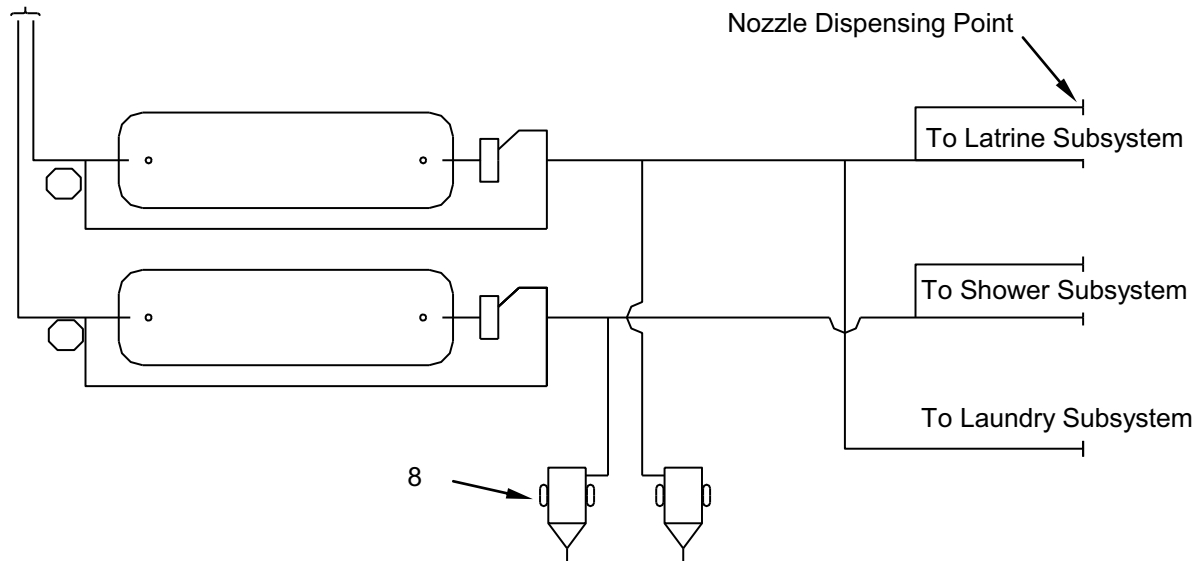
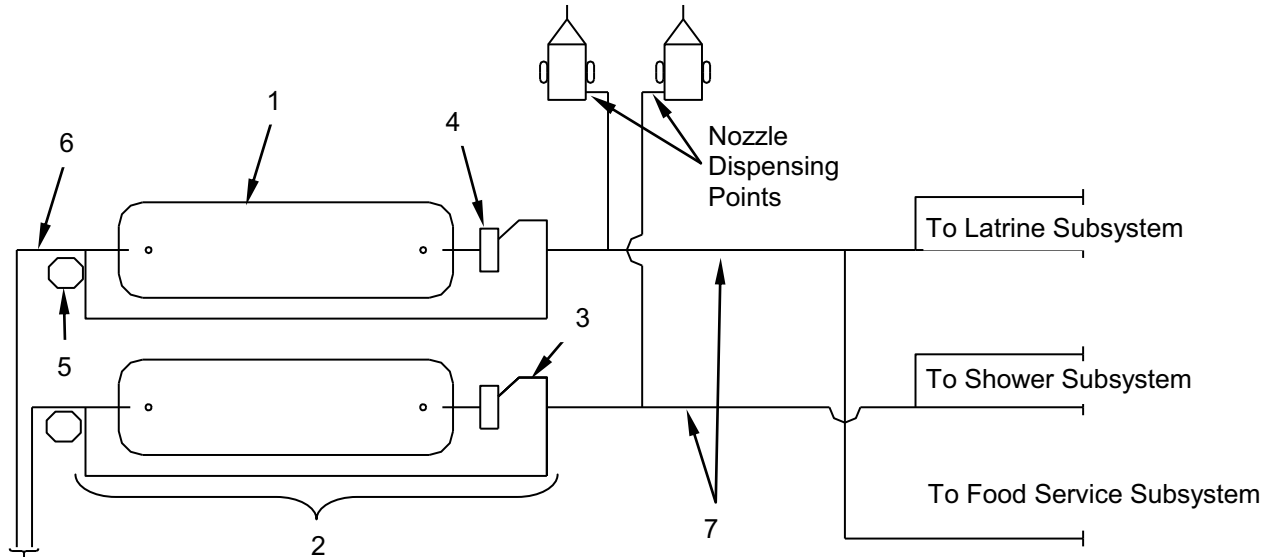




**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS –  
POTABLE WATER DISTRIBUTION SUBSYSTEM**

**POTABLE WATER DISTRIBUTION SUBSYSTEM**

The potable water distribution subsystem consists of two storage and distribution sites that provide water to the laundry, shower, latrine, food service, and four each large and small nozzle dispensing points. The main components of each site are two 20,000 Gallon Fabric Water Tanks (Type I) (1) each with a re-circulation loop (2) consisting of 1½-inch x 20-foot hoses (3), a water pump (4), a hypochlorination unit (5), and various valves, fittings. The tanks (1) are filled through 4-inch x 10-foot hoses (6), and water is distributed through 1½-inch x 15-foot discharge hoses (7). Also provided are four 400-gallon water tank trailers (8) for positioning around the billeting areas, providing access to potable water.

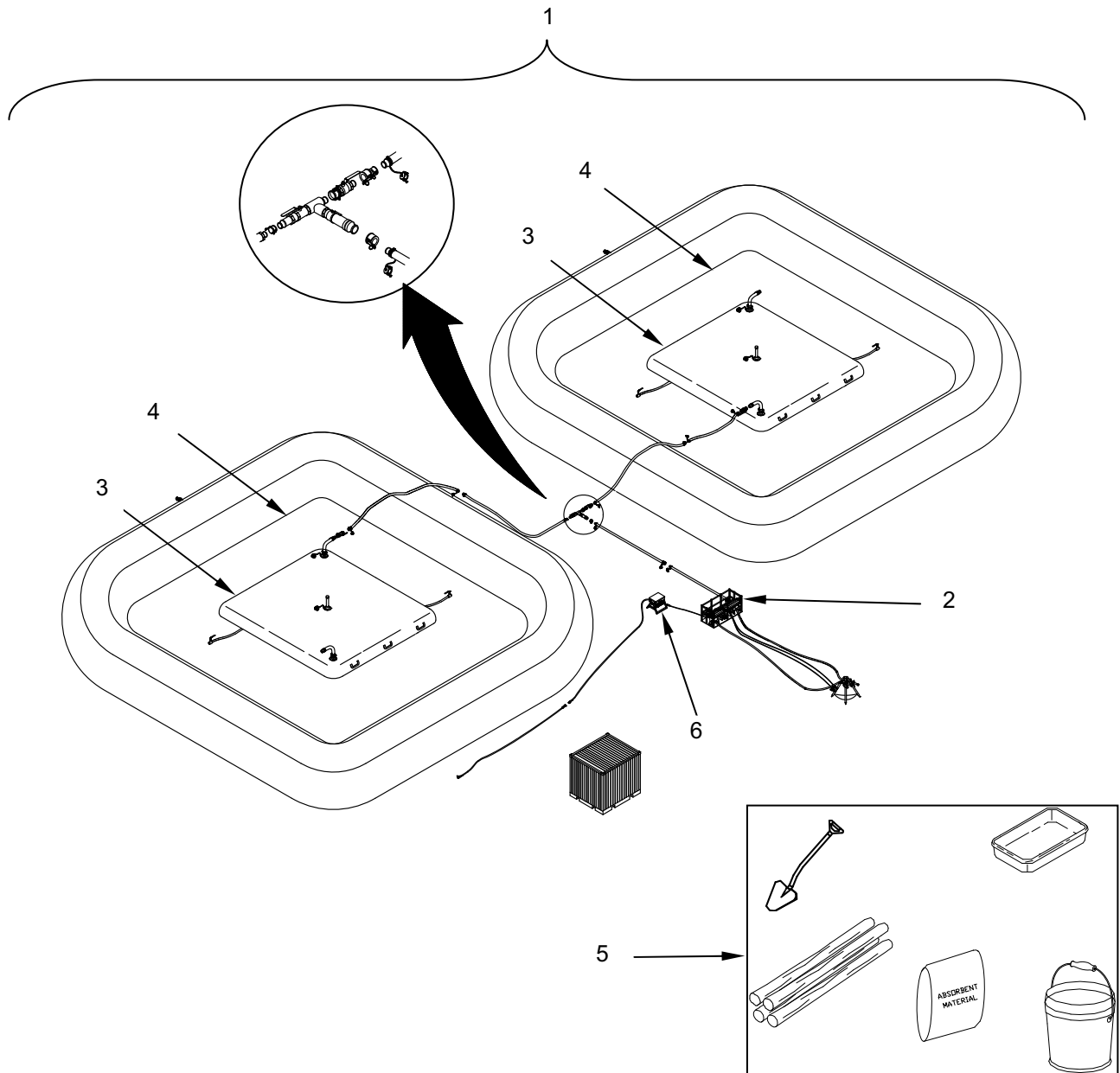




**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS –  
FUEL STORAGE AND DISTRIBUTION SUBSYSTEM**

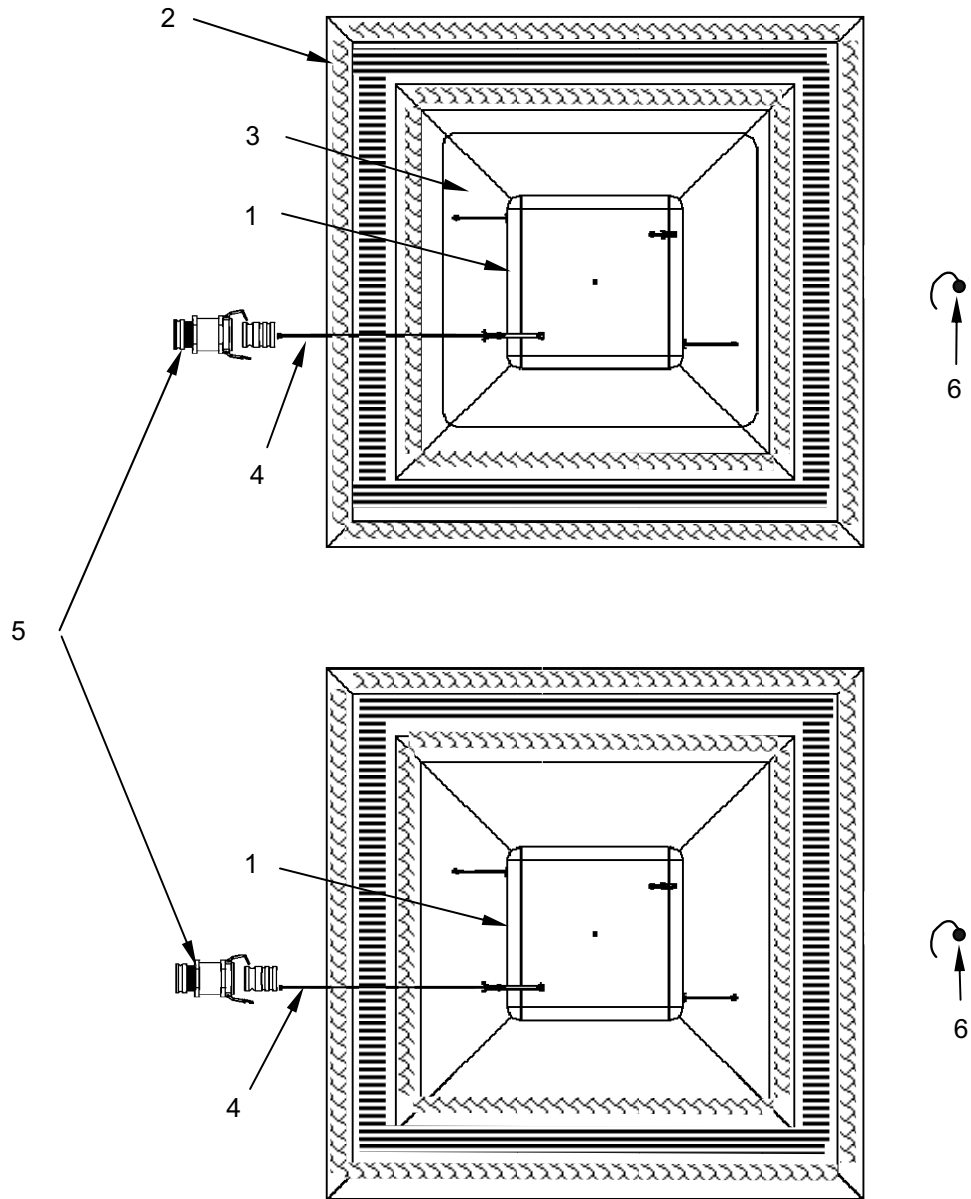
**FUEL STORAGE AND DISTRIBUTION SUBSYSTEM**

The fuel storage and distribution subsystem (1) consists of two separate functional areas: fuel storage and distribution for organic FP operation, and optional fuel storage and distribution for MSPP operation, when in use. (Refer WP 0009 00.) Fuel storage and distribution consists of the Force Provider Fuel Systems (FPFS) (2), two 10,000-Gallon collapsible fabric tanks (3), berm liners (4), fuel hoses with appropriate connection and control devices in the form of valves, couplings, Tees, reducers, as well as fuel spillage control equipment (5). The FPFS (2) includes two nozzle assemblies on retractable hoses to serve as fuel distribution points. The fuel pump is powered through a PDISE (6) that is connected to a power source.



**PRIME POWER FUEL STORAGE AND DISTRIBUTION SITE**

The prime power fuel storage and distribution site is used only when the MSPP is employed. The site's capacity is 20,000 gallons, stored in two 10,000-gallon tanks (1). The tanks are surrounded by a berm (2) and placed upon a berm liner (3). Diesel fuel is distributed from a discharge line assembly (4) on each tank terminating in a 1½-inch QDISC Coupling Half (5) to which the MSPP fuel lines will be connected. Ground rods (6) are available at each tank location to ground fuel delivery vehicles.

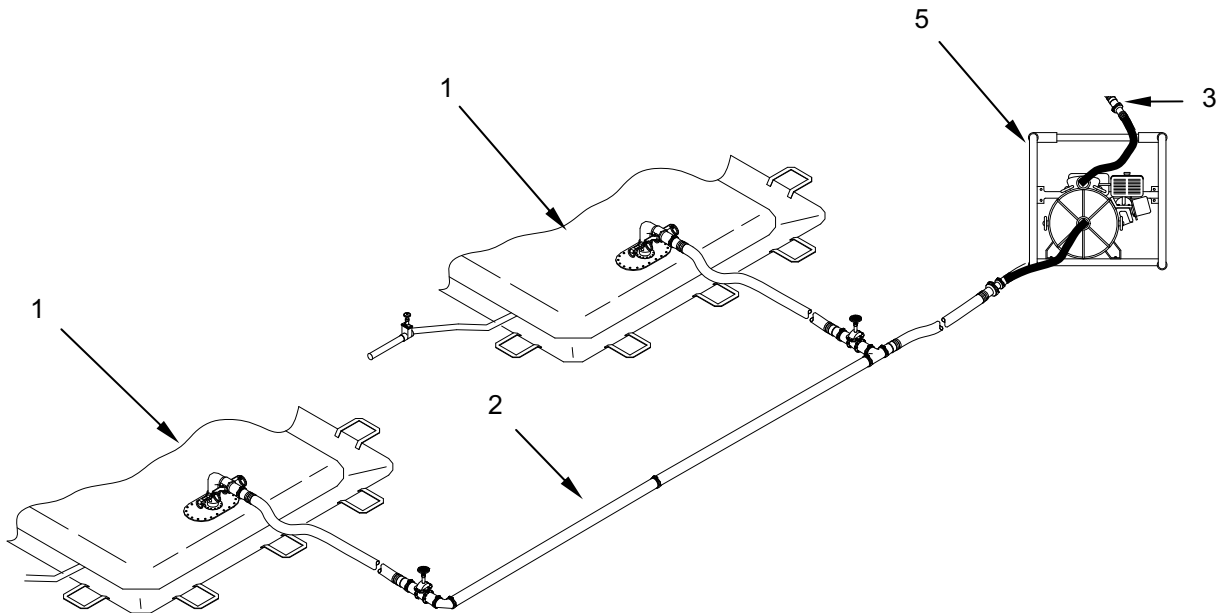
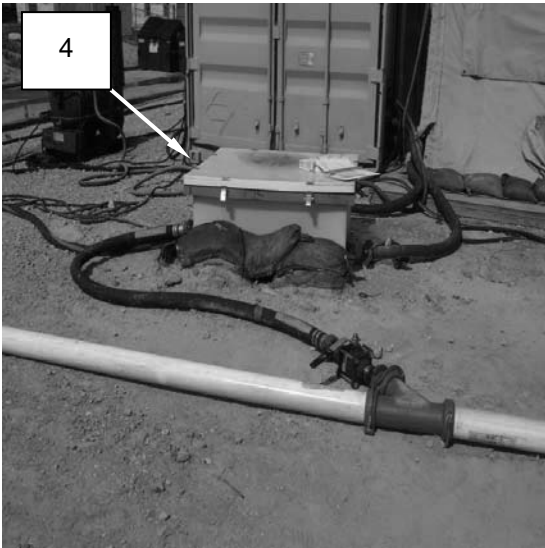




**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS –  
WASTEWATER COLLECTION SUBSYSTEM**

**WASTEWATER COLLECTION SUBSYSTEM**

The wastewater collection subsystem consists of two co-located 20,000 Gallon Collapsible Fabric Tank(s) (1), PVC pipe (2), suction/discharge hose (3), assorted fittings and valves and hoses to connect with food service, shower and the laundry subsystem Sewage Ejection Pumps (SEP) (4). To move graywater off-site, a mobile tank and pump truck, or a trash pump (5) is used.



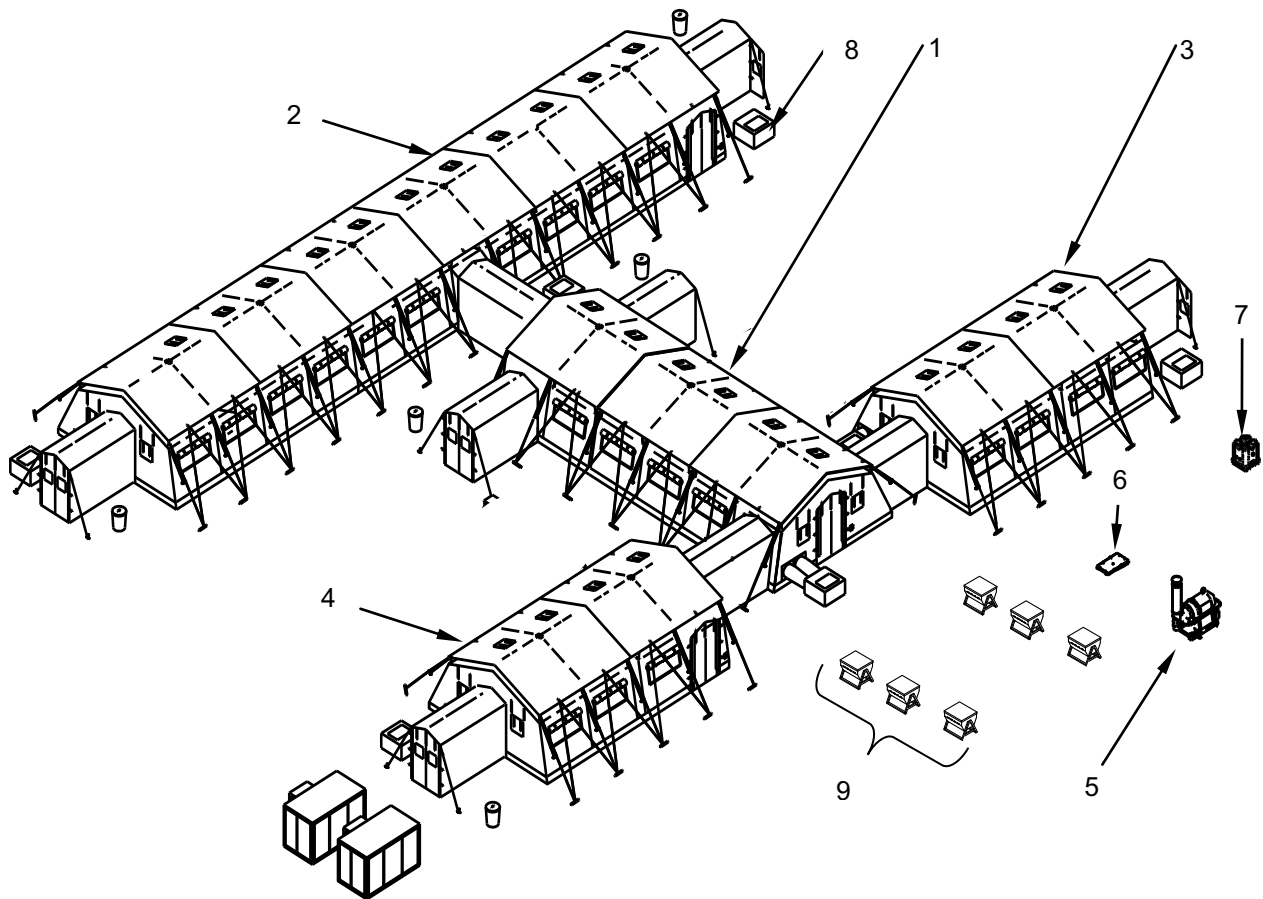


**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – FOOD SERVICE SUBSYSTEM**

**FOOD SERVICE SUBSYSTEM**

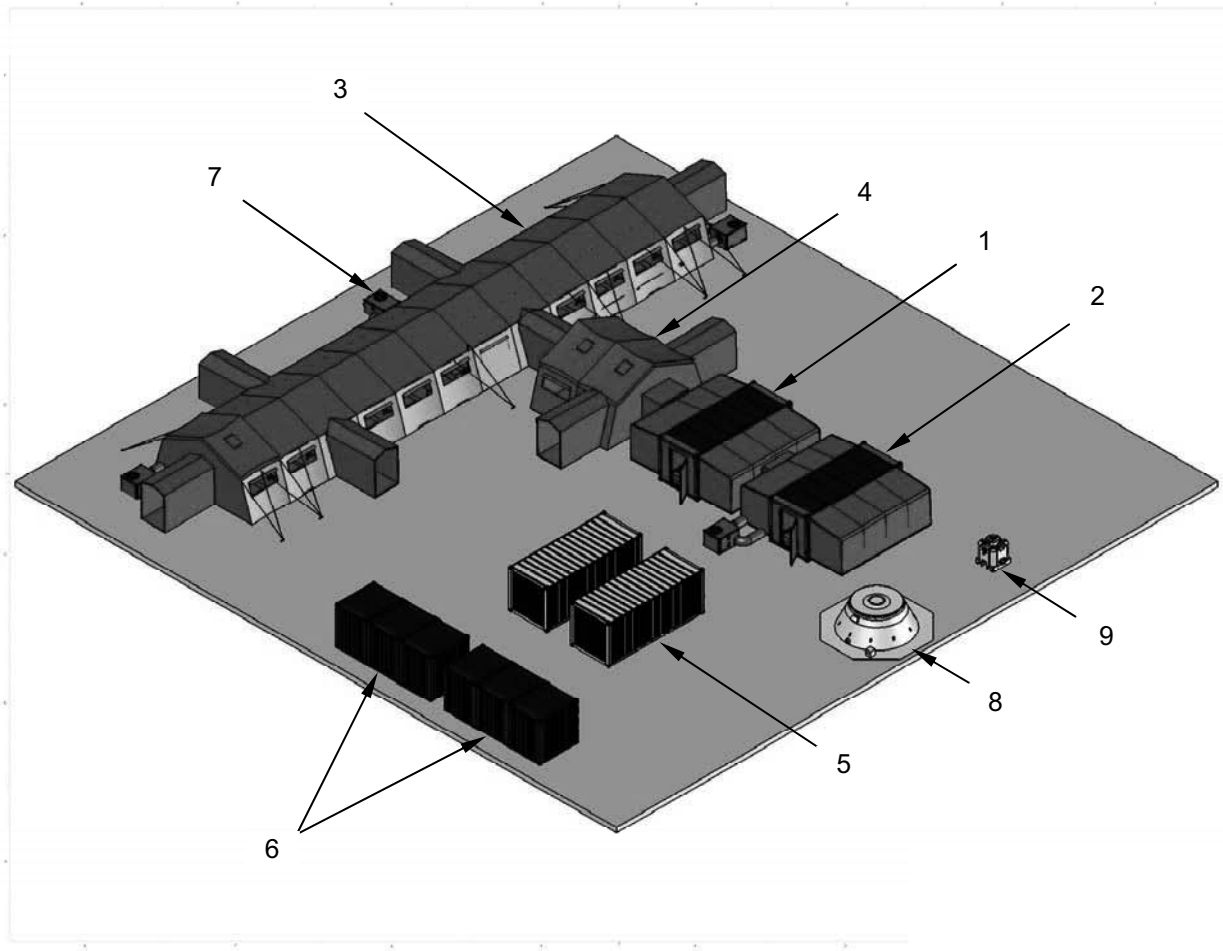
The Food Service Subsystem may consist of the tent-type facility reflected on this page, or the Electric Kitchen (EK) shown on the following page.

The tent-type food service facility consists of one 20-foot x 48-foot Type XV TEMPER (1) housing the kitchen; one Type XVIII, 20-foot x 96-foot TEMPER (2) housing the dining area; one Type XIX, 20-foot x 32-foot TEMPER (3) housing the Food Sanitation Center (FSC); and one Type XIX, 20-foot x 32-foot TEMPER (4), housing the food storage/preparation area. The four TEMPER are complexed to provide easy access and personnel traffic flow patterns. It also includes an M-80 water heater (5), a grease trap (6), a SEP (7), four ECU (8), and two ventilation fans. The kitchen and food preparation areas use commercial electric appliances including ovens, griddles, tilt griddles, steam tables, steam kettles, mixer/slicer, warming cabinet, refrigeration units, and ice machines. The dining TEMPER contains a coffee urn, toasters and beverage dispensers. An internal distribution system provides hot and cold running water to various field sinks and appliances. Power is provided through two groups of three PDISE (9), distributing power to the various points of use.



**FOOD SERVICE (EK)**

The EK Facility has a smaller footprint (approximately 15,625 Sq Feet) than the tent-system. It consists of one 20-foot x 80-foot expandable ISO Shelter (1) housing the kitchen, and one complexed 20-foot x 80-foot expandable ISO Shelter (2) housing the Food Sanitation Center (FSC) and food preparation function. One Type XVIII, 20-foot x 96-foot TEMPER (3) houses the dining area and one 20-foot x 16-foot TEMPER section (4) houses the serving line. Two, 8-foot x 20-foot Refer Units (5) provide refrigerated storage. A total of six TRICON (6) provide general storage. The dining tent and food preparation facility are air conditioned using Field Deployable Environmental Control Units (FDECU) (7). A 3,000-Gallon Water Tank (8) is used as a potable water source. Wastewater evacuation is facilitated with a Sewage Ejector System (SES) (9). Refer to TM 10-7360-229-13&P for description, operation and maintenance of the EK.



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**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS –  
SITE PREPARATION AND MAINTENANCE SUBSYSTEM**

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**SITE PREPARATION AND MAINTENANCE SUBSYSTEM**

The site preparation and maintenance subsystem provides tools and implements for use during site preparation work. (Refer to WP 0032 00 for a detailed listing of items provided.) This material is shipped in a single TRICON (11A) for disposition and as needed during site preparation. The placement and control of this equipment is a responsibility of the host unit.

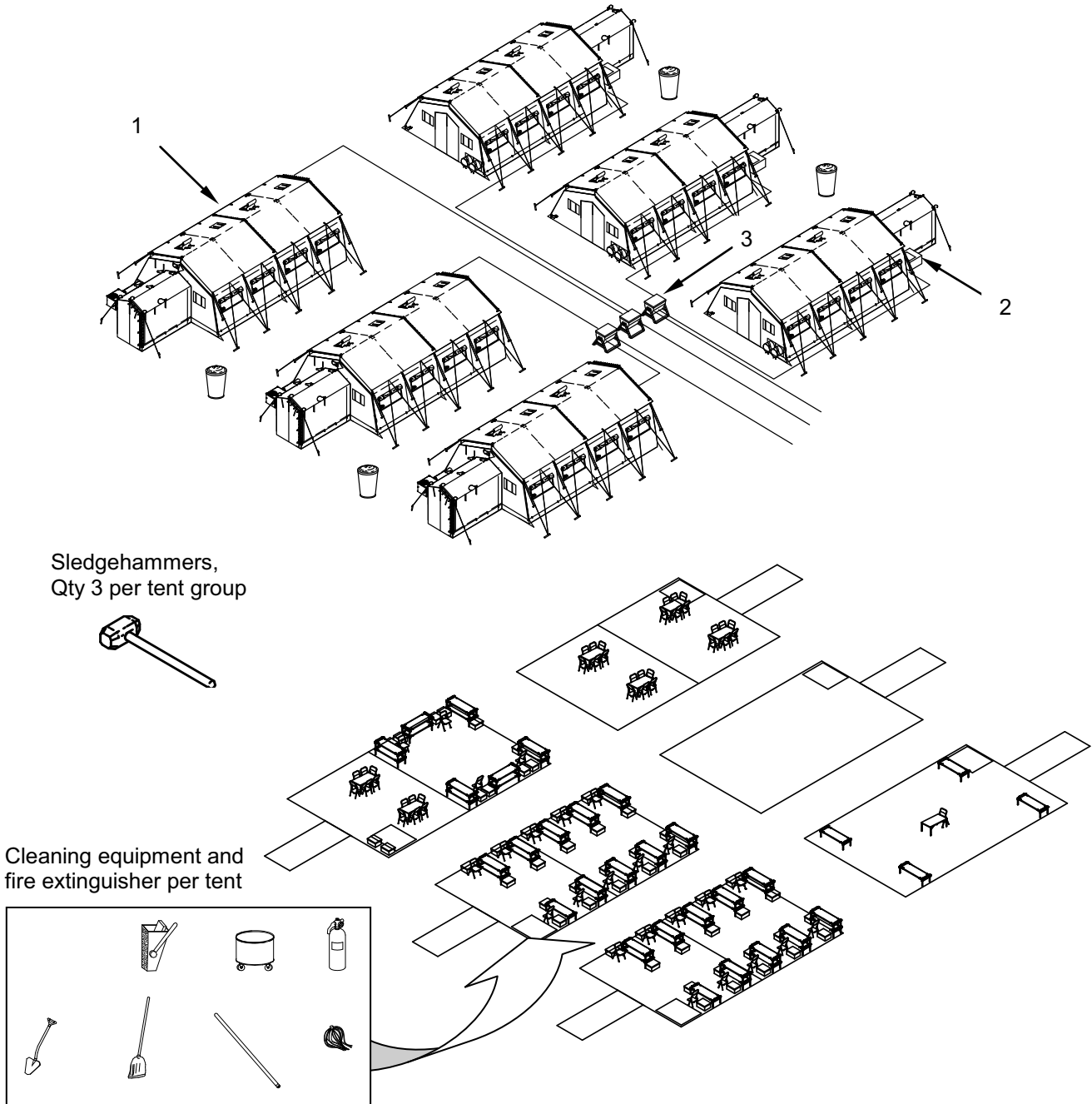
TRICON 11B and 11C contain System Support Packages (SSP) consisting of a supply of spare and repair parts designed to sustain FP Equipment for a period of thirty days. Both TRICON are positioned in the Administrative Subsystem area where the host unit maintenance section will use and maintain individual SSP contents.



**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - ADMINISTRATION SUBSYSTEM**

**ADMINISTRATION SUBSYSTEM**

The administration subsystem provides for the billeting of FP Company personnel, and houses associated administrative and other support functions, including unit supply/maintenance, and a medical station. Discretionary functions such as Post Exchange or general storage can also be accommodated. A total of six, Type IV, 20-foot x 32-foot, TEMPER (1) are provided including ECUs (2) and PDISE (3), together with tables, chairs and various other suitable furnishings and implements. The subsystem may be configured to suit local conditions and requirements but is most often set up as shown below.



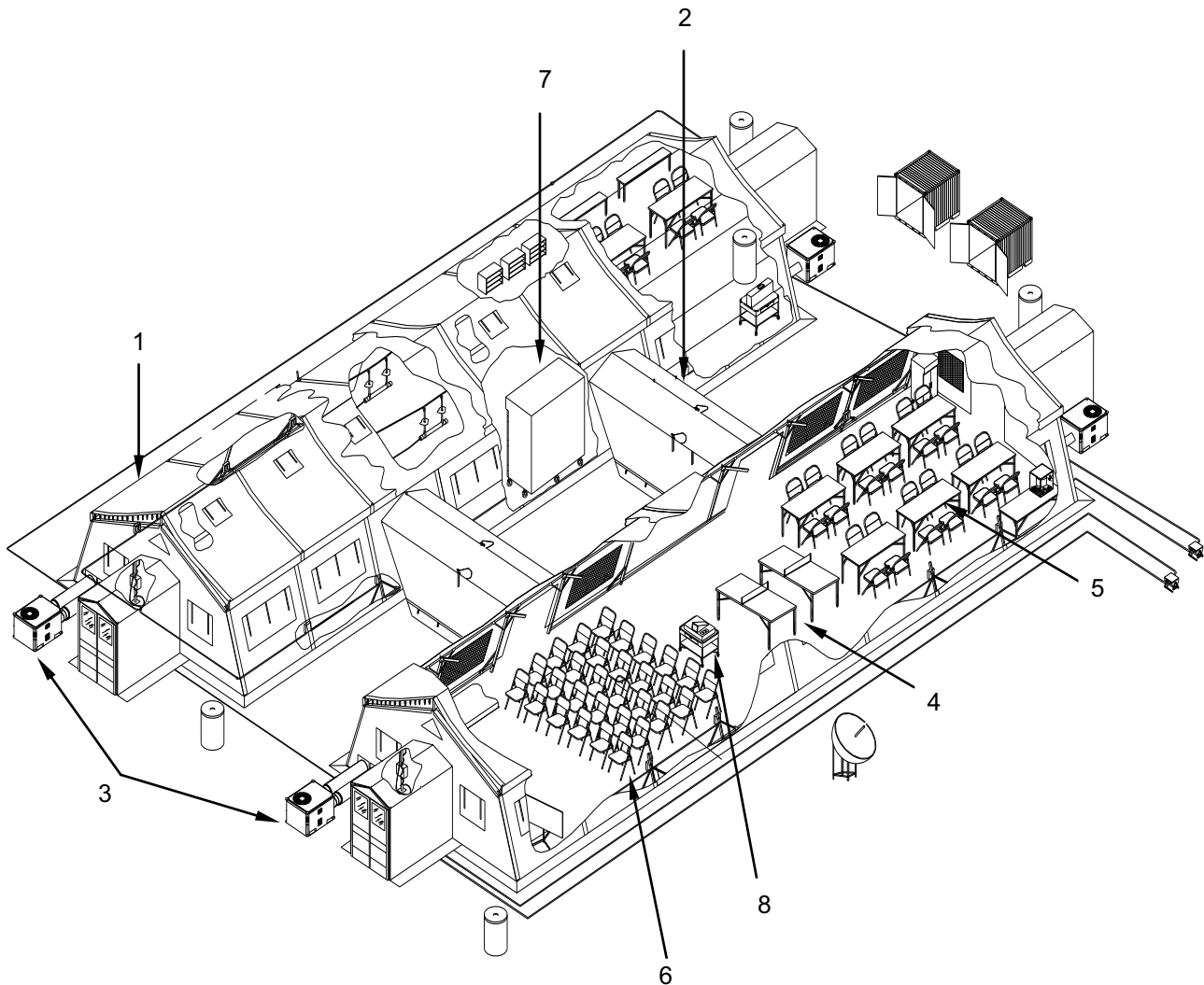




**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS –  
MORALE, WELFARE AND RECREATION SUBSYSTEM**

**MWR SUBSYSTEM**

The Morale, Welfare and Recreation (MWR) subsystem includes two Type XVII, 20-foot x 64-foot TEMPER (1), with connecting vestibules (2), and ECU (3). These TEMPER house recreation facilities, personnel services, meeting rooms, library, and other functional areas as desired. Suitable recreational equipment, including table tennis (4), lifting weights, as well as outdoor sports equipment is provided. Recreational equipment furnished includes television, VCR, audio system, and public address system. Furniture provided includes tables, (5) chairs (6) refrigerators (7) and audiovisual equipment (8).



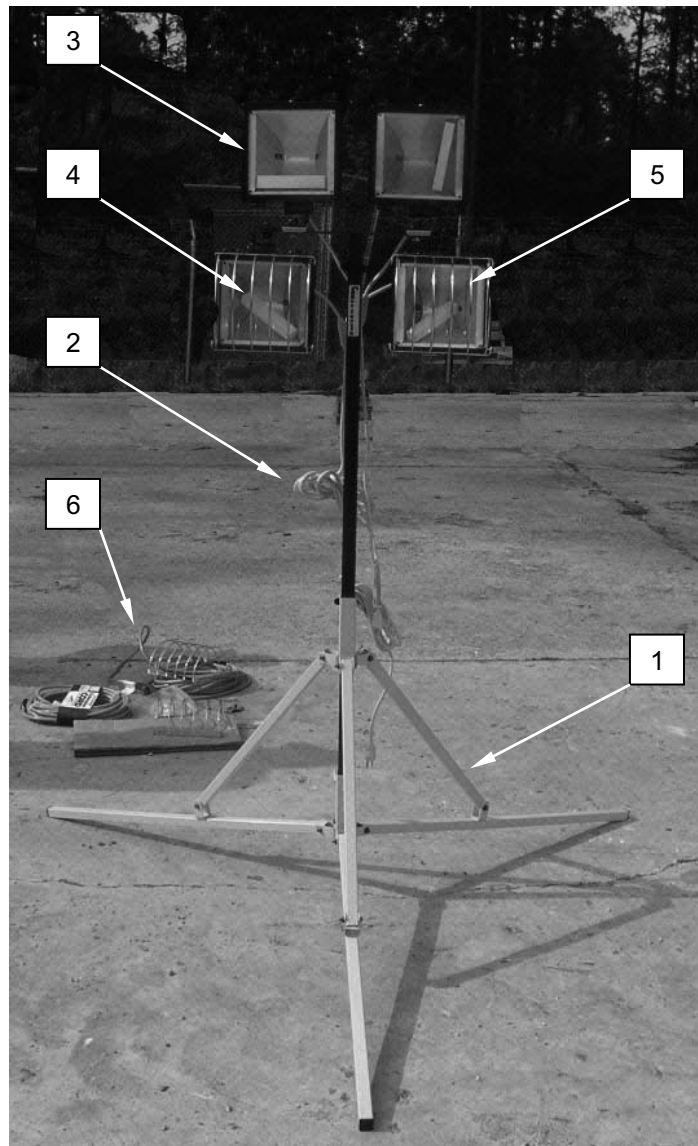


**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – FLOODLIGHTS SUBSYSTEM****FLOODLIGHTS SUBSYSTEM**

This subsystem provides twenty 2000-Watt and twenty-five 1000-Watt tripod mounted floodlights to be used during set up and operation of an FP Module as needed. Suggested floodlight layouts for various subsystems are provided in WP 0035 00, however, the lights can be located, or relocated as operations require. An additional two 2000-Watt and three 1000-Watt floodlights are provided together with spare light heads, extension cords, 500-Watt Halogen bulbs, and cotton glove inserts (required to change the bulbs) in the floodlight system support package. The floodlights consist of a tripod (1), power cord(s) (2), 500 Watt light heads (3), light bulbs (4), light guards (5), and extension cord(s) (6).

**NOTE**

2000-Watt Floodlight shown – 1000-Watt Floodlight version uses only two (bottom) light heads.

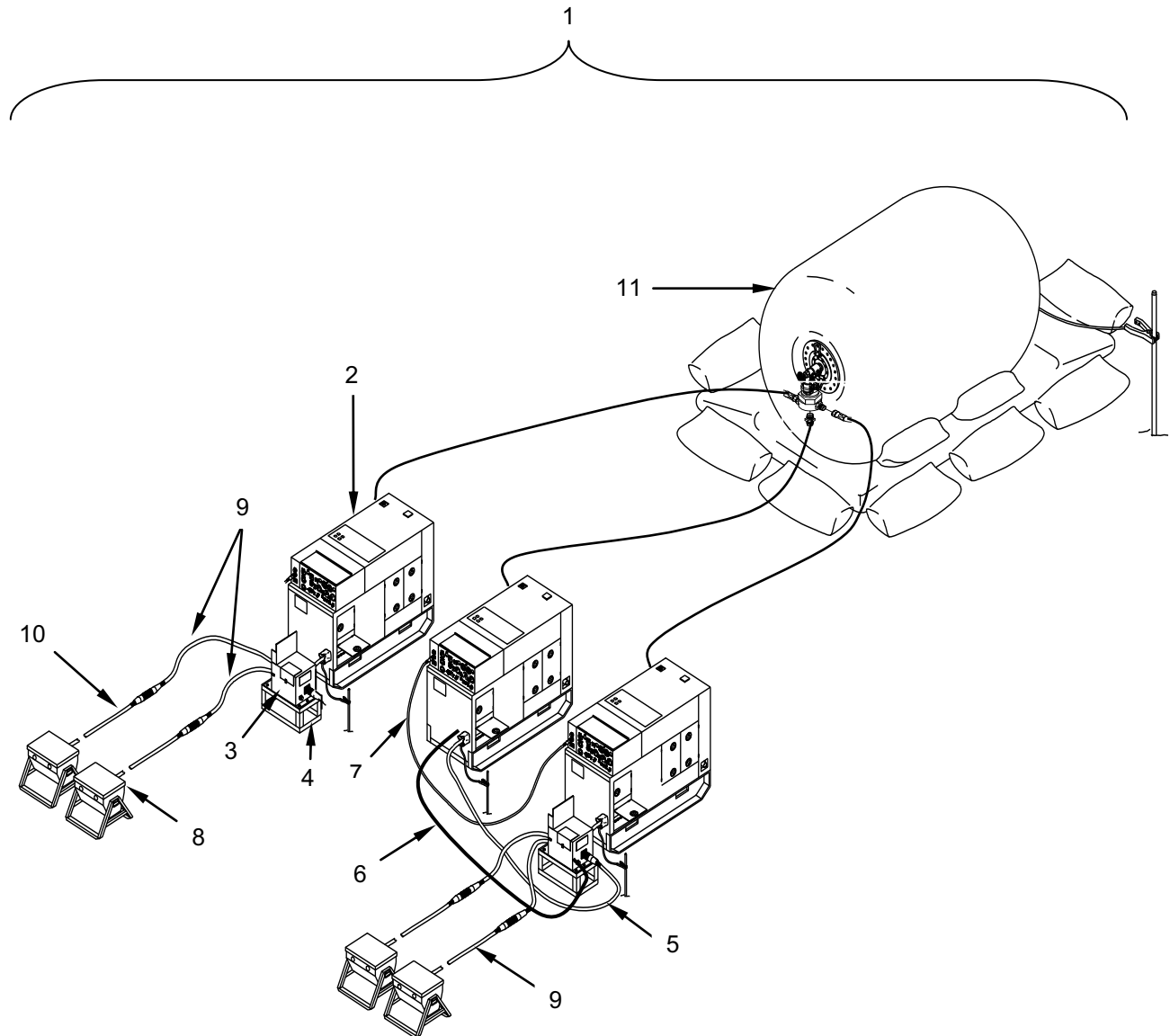




**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS –  
MODIFICATION SYSTEM (POWER GENERATION) (MSPG)**

**MSPG SUBSYSTEM**

There are eight power generation clusters (1) required to provide electrical power to a FP Module. Each cluster consists of three 60-kW Tactical Quiet Generators (TQG) (2) and two switch box assemblies (3) with cradles (4). The TQG are operated on a two-on/one-off rotating duty cycle. Each cluster is provided with one 60kW, 20-foot cable (5) to connect a second TQG (B Unit) to a switch box (3). A control cable (6) and parallel cable (7) regulate the operation of the second TQG (B Unit). Power from the switch boxes (3) is conveyed to the Power Distribution Illumination System, Electrical (PDISE) (8) using 100-A, 4-foot pigtails (9) and 100-A, 50-foot service cables (10), that are furnished with the PDISE. The PDISE are part of the supported subsystem equipment. A 500-Gallon collapsible fabric fuel drum (11) provides fuel for 2 to 3 days of operation.

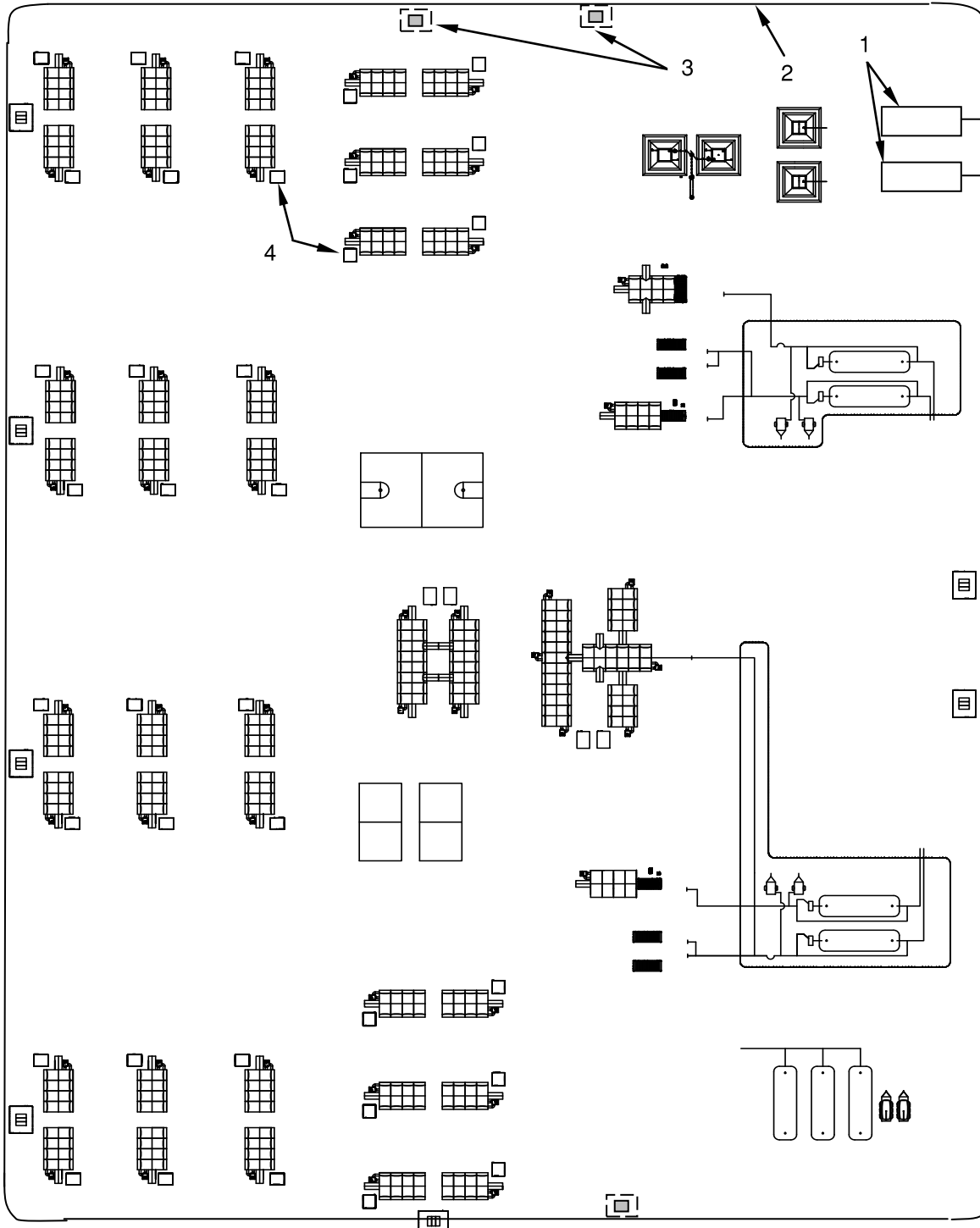




**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS –  
MODIFICATION SYSTEM (PRIME POWER) (MSPP)**

**MODIFICATION SYSTEM PRIME POWER**

When Army prime power will be used, power will be generated by 750kw Generators (1) and distributed through a power loop (2). Step-down transformers (3) are located to feed the PDISE (4) of each billeting group and subsystem. Only an Army prime power company can operate this system.



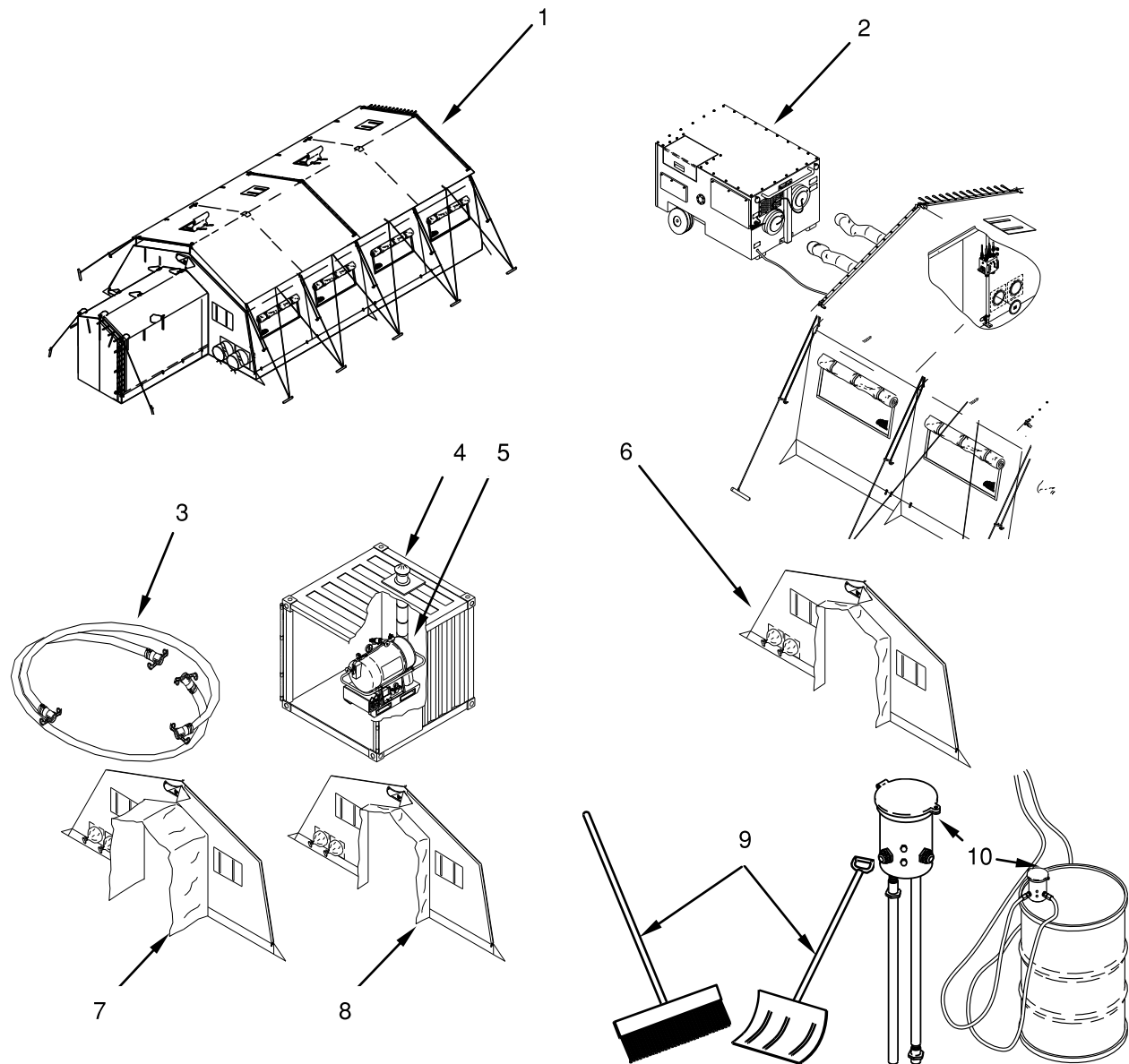




**FORCE PROVIDER  
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS –  
MODIFICATION SYSTEM COLD WEATHER (MSCW)**

**MODIFICATION SYSTEM COLD WEATHER**

This modification system provides equipment designed to facilitate operation in temperature below 32° F. Major components include additional TEMPER assets (1) to be used with the food service, potable water distribution and wastewater collection subsystems. Army Space Heaters (ASH) (2) are furnished for use with TEMPER. Heat traced hoses (3) are provided for use with food service, potable water distribution and wastewater collection subsystems in lieu of standard hoses. Modified TRICON (4) that accommodate M80 Water Heaters (5) are used with food service, laundry and shower subsystems. Special TEMPER end walls are provided for use with the WWET/Trailers (6), and to connect modified TRICON (7), and ISO Container (8). In addition various implements are provided for use during snow removal (9), and refueling operations of the ASH (10).





**FORCE PROVIDER  
EQUIPMENT DATA**

**EQUIPMENT DATA**

The following tables list equipment/site data by subsystem, followed by a module data summary. Data pertaining to Modification Systems is listed separately.

**Transportation/Storage Container Subsystem**

Number of Sites: As required  
 Area: N/A  
 Capacity: N/A  
 Power Requirements: N/A  
 Potable Water Usage: N/A  
 Graywater Produced: N/A  
 Blackwater Produced: N/A  
 Fuel Requirements: N/A

**Table 1. Transportation/Storage Container Subsystem Shipping Configuration.**

<b>Container/ Item</b>	<b>Type</b>	<b>Quantity</b>	<b>Cube (each)</b>	<b>Empty Weight (each)</b>
1A	TRICON	15	413.3 ft <sup>3</sup>	2,700 lbs
1B	TRICON	15	413.3 ft <sup>3</sup>	2,700 lbs
1C	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
1D	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
2A	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
2B	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
2C	ISO	1	1,280 ft <sup>3</sup>	5,510 lbs
3A	ISO	4	1,280 ft <sup>3</sup>	4,960 lbs
3B	TRICON	2	413.3 ft <sup>3</sup>	2,700 lbs
4A	ISO	2	1,280 ft <sup>3</sup>	5,250 lbs
4B	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
4C	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
4D	TRICON	2	413.3 ft <sup>3</sup>	2,700 lbs
4E	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
5A	TRICON	2	413.3 ft <sup>3</sup>	2,700 lbs
5B	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
7B	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
7C	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
8A	ISO	1	1,280 ft <sup>3</sup>	4,960 lbs
8B	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
8C	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
8D	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
10A	ISO	1	1,280 ft <sup>3</sup>	4,960 lbs
10B	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
10C	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
10D	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
10E	TRICON	2	413.3 ft <sup>3</sup>	2,700 lbs
10F	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
10G	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
10I	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
10J	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
10K	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
10L	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs

**Table 1. Transportation/Storage Subsystem Shipping Configuration – Continued.**

Container/Item	Type	Quantity	Cube (each)	Empty Weight (each)
10M	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
10N	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
10P	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
11A	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
11B	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
11C	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
11D	ISO	1	1,280 ft <sup>3</sup>	4,960 lbs
11G	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
11H	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
12A	TRICON	2	413.3 ft <sup>3</sup>	2,700 lbs
12B	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
12C	TRICON	5	413.3 ft <sup>3</sup>	2,700 lbs
12E	TRICON	1	413.3 ft <sup>3</sup>	2,700 lbs
12F	TRICON	3	413.3 ft <sup>3</sup>	2,700 lbs
8B	Container, Reusable, Bulk Equipment, Commercial	1	See Note	See Note
7B (2), 11C (2)	Container, Reusable, Bulk Equipment, Half Size	4	See Note	See Note
5A-1 (2), 5A-2 (2), 8C (2)	Container, Reusable, Bulk Equipment, Medium	6	See Note	See Note
5B (2), 11A (1) 7C (3), 1B (3)	Container, Reusable, Bulk Equipment, Small	9	See Note	See Note
8B (2)	Container, Reusable, Bulk Equipment, Half Size, General Purpose	2	See Note	See Note
<b>TOTAL</b>		<b>112</b>	<b>54,956.60 ft<sup>3</sup></b>	<b>45,864.00 lbs</b>

Note: The cube and weight of each reusable container are included in the respective subsystem TRICON data.

**Billeting Subsystem**

Number of Sites: 4<sup>1/2</sup>

Area: Approximately 9,000-ft<sup>2</sup>/site (7 each 20-foot x 32-foot TEMPER/site spaced 20 feet apart)

Capacity: 550 soldiers, 110 Support personnel

Power Requirements: 208VAC/3 phase/60 Hz, 12 kW per TEMPER (avg.) 84kW/site

Potable Water Usage: N/A

Graywater Produced: N/A

Blackwater Produced: N/A

Fuel Requirements: MSCW configuration – ASH Heaters (32units/0.5Gal/hr/24 Hours) = 384 Gallon/day

**Table 2. Billeting Subsystem Shipping Configuration.**

Container/Item	Type	Quantity	Cube (each)	Weight (each)
1A	TRICON	15	413.3 ft <sup>3</sup>	7,950 lbs
1B	TRICON	15	413.3 ft <sup>3</sup>	5,450 lbs
1C	TRICON	1	413.3 ft <sup>3</sup>	4,260 lbs
1D	TRICON	1	413.3 ft <sup>3</sup>	9,110 lbs
<b>TOTAL</b>		<b>32</b>	<b>13,225.6 ft<sup>3</sup></b>	<b>214,370 lbs</b>

**Laundry Subsystem**

Number of Sites: 1  
 Area: Approximately 5,000-ft<sup>2</sup>/site  
 Capacity: 200 lbs laundry/hour  
 Power Requirements: 208VAC/3 phase/60 Hz, 100 kW  
 Potable Water Usage: 5,200 Gallon/day  
 Graywater Produced: 5,200 Gallon/day  
 Blackwater Produced: N/A  
 Fuel Requirements: M-80 Water Heater (1unit/2.5Gal/hr/24 Hours) = 60 Gallon/day  
 Additional Fuel Requirements for MSCW: ASH Heater (1unit/0.5Gal/hr/24 Hours) = 12 Gallon/day

**Table 3. Laundry Subsystem Shipping Configuration.**

Container/Item	Type	Quantity	Cube (each)	Weight (each)
2A	TRICON	1	413.3 ft <sup>3</sup>	5,850 lbs
2B	TRICON	1	413.3 ft <sup>3</sup>	4,250 lbs
2C	ISO	1	1,280 ft <sup>3</sup>	13,530 lbs
<b>TOTAL</b>		<b>3</b>	<b>2,106.6 ft<sup>3</sup></b>	<b>23,630 lbs</b>

**Latrine Subsystem**

Number of Sites: 2  
 Area: 6,530-ft<sup>2</sup>/site  
 Capacity: 300 soldiers/site  
 Power Requirements: 208VAC/3 phase/60 Hz, 40kW/site  
 Potable Water Usage: 3000 Gallon/day  
 Graywater Produced: N/A  
 Blackwater Produced: 3,780 Gal/day (6.3 Gallon/day/soldier)  
 Fuel Requirements: 2 WWET/T, 4Gal/hr = 40 Gallon/day  
 Additional Fuel Requirements for MSCW: ASH Heater (2units/0.5Gal/hr/24 Hours) = 24 Gallon/day

**Table 4. Latrine Subsystem Shipping Configuration.**

Container/Item	Type	Quantity	Cube (each)	Weight (each)
3A (-1, -2)	ISO	2	1,280 ft <sup>3</sup>	10,860 lbs
3A (-3, -4)	ISO	2	1,280 ft <sup>3</sup>	9,900 lbs
3B	TRICON	2	413.3 ft <sup>3</sup>	5,260 lbs
WWET/T	Trailer	2	1,224 ft <sup>3</sup>	7,920 lbs (Empty)
<b>TOTAL</b>		<b>6</b>	<b>8,394.6 ft<sup>3</sup></b>	<b>67,880 lbs</b>

**Shower Subsystem**

Number of Sites: 2  
 Area: 6,970-ft<sup>2</sup>/site  
 Capacity: 275 soldiers/site  
 Power Requirements: 208VAC/3 phase/60 Hz, 27.5kW/site  
 Potable Water Usage: 11,000 Gallon/day  
 Graywater Produced: 11,000 Gallon/day  
 Blackwater Produced: N/A  
 Fuel Requirements: M-80 Water Heater (2units/2.5Gal/hr/24 Hours) = 120 Gallon/day  
 Additional Fuel Requirements for MSCW: ASH Heater (2units/0.5Gal/hr/24 Hours) = 24 Gallon/day

**Table 5. Shower Subsystem Shipping Configuration.**

Container/ Item	Type	Quantity	Cube (each)	Weight (each)
4A	ISO	2	1,280 ft <sup>3</sup>	9,500 lbs
4B	TRICON	1	413.3 ft <sup>3</sup>	7,120 lbs
4C	TRICON	1	413.3 ft <sup>3</sup>	5,420 lbs
4D	TRICON	2	413.3 ft <sup>3</sup>	4,160 lbs
4E	TRICON	1	413.3 ft <sup>3</sup>	3,990 lbs
<b>TOTAL</b>		<b>7</b>	<b>13,225.6 ft<sup>3</sup></b>	<b>43,850 lbs</b>

**Potable Water Distribution Subsystem**

Number of Sites: 4

Area: 6,530-ft<sup>2</sup>/site

Capacity: 20,000 Gallons potable water storage/site

Power Requirements: 208VAC/3 phase/60 Hz, 1.5kW/site

Additional Power Requirements for MSCW configuration: (2 heat traced hoses/3.4kW each)

Potable Water Usage: N/A

Graywater Produced: N/A

Blackwater Produced: N/A

Fuel Requirements: N/A

Additional Fuel Requirements for MSCW: ASH Heaters (4units/0.5Gal/hr/24 Hours) = 48 Gallon/day

**Table 6. Potable Water Distribution Subsystem Shipping Configuration.**

Container/ Item	Type	Quantity	Cube (each)	Weight (each)
5A	TRICON	2	413.3 ft <sup>3</sup>	7,470 lbs
5B	TRICON	1	413.3 ft <sup>3</sup>	5,130 lbs
400 Gallon Tank	Trailer	4	625 ft <sup>3</sup>	2,800 lbs
<b>TOTAL</b>		<b>7</b>	<b>3,739 ft<sup>3</sup></b>	<b>31,270 lbs</b>

**Fuel Storage and Distribution Subsystem**

Diesel/JP8 Storage and Distribution

Number of Sites: 1

Area: 2,500-ft<sup>2</sup>/site

Capacity: 20,000 Gallon Diesel/JP8 storage, 2,517 Gallon/day

Power Requirements: 208V/3Phase, 1.5 kW

Fuel Requirements: N/A

Shipping Configuration: Container 7B (see Table 7)

Power Generation Fuel Stores (Used when Modification System Power Generation is deployed)

Number of Sites: 9

Area: 500-ft<sup>2</sup>/site

Capacity: 500 Gallon Diesel/JP8 storage per site

Power Requirements: N/A

Fuel Requirements: N/A

Shipping Configuration: Container 21B (see Table 7)

**Fuel Storage and Distribution Subsystem – Continued.**

Prime Power Fuel Storage (Used when Modification System Prime Power is deployed)

Number of Sites: 1

Area: 2,500-ft<sup>2</sup>/site

Capacity: 20,000 Gallon Diesel/JP8 fuel storage

Power Requirements: N/A

Fuel Requirements: N/A

Shipping configuration: Container 7C (see Table 7)

**Table 7. Fuel Storage and Distribution Subsystem Shipping Configuration.**

Container/ Item	Type	Quantity	Cube (each)	Weight (each)
7B	TRICON	1	413.3 ft <sup>3</sup>	5,390 lbs
7C	TRICON	1	413.3 ft <sup>3</sup>	5,420 lbs
21B*	TRICON	(1)	(413.3 ft <sup>3</sup> )	(8,040 lbs)
<b>TOTAL</b>		<b>2</b>	<b>826.6 ft<sup>3</sup></b>	<b>10,810 lbs</b>

\*Shipped with Modification System Power Generation

**Wastewater Collection Subsystem**

Number of Sites: 1 (When set up in the MSCW Configuration: 2)

Area: 10,000-ft<sup>2</sup>/site (5,000-ft<sup>2</sup>/site in MSCW configuration)

Capacity: 40,000 Gallons graywater storage (average 17,575 Gallons/day collected)

Power Requirements: 208VAC/3 phase/60 Hz, 1.5kW/site

Additional Power Requirements for MSCW Configuration: (2 heat traced hoses/3.4kW each)

Potable Water Usage: N/A

Graywater Produced: N/A

Blackwater Produced: N/A

Fuel Requirements: 1 Gallon/day, DF-2 or JP8 (for tank draining pumps/site)

Additional Fuel Requirements for MSCW configuration: ASH Heaters (4units/0.5Gal/hr/24 Hours) = 48 Gallon/day

**Table 8. Wastewater Collection Subsystem Shipping Configuration.**

Container/ Item	Type	Quantity	Cube (each)	Weight (each)
8A	ISO	1	1,280 ft <sup>3</sup>	12,320 lbs
8B	TRICON	1	413.3 ft <sup>3</sup>	5,950 lbs
8C	TRICON	1	413.3 ft <sup>3</sup>	5,570 lbs
8D	TRICON	1	413.3 ft <sup>3</sup>	5,570 lbs
<b>TOTAL</b>		<b>4</b>	<b>2,519.9 ft<sup>3</sup></b>	<b>29,410 lbs</b>

**Food Service Subsystem**

Number of Sites: 1  
 Area: 28,000-ft<sup>2</sup>/site  
 Capacity: 660 Type A or B meals, three times daily  
 Power Requirements: 208VAC/3 phase/60 Hz, 120kW/site  
 Potable Water Usage: 1,925 Gallon/day  
 Graywater Produced: 1,375 Gallon/day  
 Fuel Requirements: M-80 Water Heater (1unit/2.5Gal/hr/24 Hours) = 60 Gallon/day  
 Additional Fuel Requirements for MSCW: ASH Heater (7units/0.5Gal/hr/24 Hours) = 84 Gallon/day

**Table 9. Food Service Subsystem Shipping Configuration.**

Container/Item	Type	Quantity	Cube (each)	Weight (each)
10A	ISO	1	1,280 ft <sup>3</sup>	10,020 lbs
10B	TRICON	1	413.3 ft <sup>3</sup>	6,300 lbs
10C	TRICON	1	413.3 ft <sup>3</sup>	4,570 lbs
10D	TRICON	1	413.3 ft <sup>3</sup>	5,420 lbs
10E	TRICON	2	413.3 ft <sup>3</sup>	5,340 lbs
10F	TRICON	1	413.3 ft <sup>3</sup>	7,180 lbs
10G	TRICON	1	413.3 ft <sup>3</sup>	6,580 lbs
10I	TRICON	1	413.3 ft <sup>3</sup>	5,530 lbs
10J	TRICON	1	413.3 ft <sup>3</sup>	4,660 lbs

**Table 9. Food Service Subsystem Shipping Configuration – Continued.**

Container/Item	Type	Quantity	Cube (each)	Weight (each)
10K	TRICON	1	413.3 ft <sup>3</sup>	6,710lbs
10L	TRICON	1	413.3 ft <sup>3</sup>	6,650 lbs
10M	TRICON	1	413.3 ft <sup>3</sup>	4,440 lbs
10N	TRICON	1	413.3 ft <sup>3</sup>	5,050 lbs
10P	TRICON	1	413.3 ft <sup>3</sup>	4,270 lbs
<b>TOTAL</b>		<b>15</b>	<b>7,066.20 ft<sup>3</sup></b>	<b>82,720 lbs</b>

**Site Preparation and Maintenance Subsystem**

Number of Sites: N/A  
 Area: N/A  
 Capacity: N/A  
 Power Requirements: 120VAC, 60 Hz  
 Potable Water Usage: N/A  
 Graywater Produced: N/A  
 Fuel Requirements: N/A

**Table 10. Site Preparation and Maintenance Subsystem Shipping Configuration.**

Container/Item	Type	Quantity	Cube (each)	Weight (each)
11A	TRICON	1	413.3-ft <sup>3</sup>	7,440-lbs
11B*	TRICON	1	413.3-ft <sup>3</sup>	7,410-lbs
11C*	TRICON	1	413.3-ft <sup>3</sup>	8,950-lbs
<b>TOTAL</b>		<b>3</b>	<b>1,239.9</b>	<b>15,730-lbs</b>

\* System Support Kit Part A and B



**Administration Subsystem**

Number of Sites: 1  
 Area: 20,000-ft<sup>2</sup>/site  
 Capacity: Approximately 4,480 square feet of tent space in 7 TEMPER for various functions  
 Power Requirements: 208VAC/3 phase/60 Hz, 12kW/TEMPER  
 Potable Water Usage: N/A  
 Graywater Produced: N/A  
 Blackwater Produced: N/A  
 Fuel Requirements: None  
 Fuel Requirements for MSCW Configuration: ASH Heater (7units/0.5Gal/hr/24 Hours) = 84 Gallon/day

**Morale, Welfare and Recreation (MWR) Subsystem**

Number of Sites: 1  
 Area: 10,000-ft<sup>2</sup>/site  
 Capacity: Approximately 2,000 square feet of tent space in 3 TEMPER for various functions  
 Power Requirements: 208VAC/3 phase/60 Hz, 12kW/TEMPER  
 Potable Water Usage: N/A  
 Graywater Produced: N/A  
 Blackwater Produced: N/A  
 Fuel Requirements: None  
 Fuel Requirements for MSCW configuration: ASH Heater (3units/0.5Gal/hr/24 Hours) = 36 Gallon/day

**Table 11. Administration/MWR Subsystems Shipping Configuration.**

Container/ Item	Type	Quantity	Cube (each)	Weight (each)
12F	TRICON	3	413.3 ft <sup>3</sup>	7,310 lbs
12B	TRICON	1	413.3 ft <sup>3</sup>	5,930 lbs
12C	TRICON	5	413.3 ft <sup>3</sup>	5,330 lbs
12E	TRICON	1	413.3 ft <sup>3</sup>	4,890 lbs
11D	ISO	1	1,280.3 ft <sup>3</sup>	8,510 lbs
11G	TRICON	1	413.3 ft <sup>3</sup>	4,360 lbs
11H	TRICON	1	413.3 ft <sup>3</sup>	9,740 lbs
12A	TRICON	2	413.3 ft <sup>3</sup>	6,760 lbs
<b>TOTAL</b>		<b>15</b>	<b>7,066.50 ft<sup>3</sup></b>	<b>88,770 lbs</b>

(Note: Contents of TRICON 12B, 12C, and 12E are shared between Admin and MWR Subsystems.)

**Floodlight Subsystem**

Number of Sites: As required

Area: 50-ft<sup>2</sup>/site

Capacity: 1000-Watt (Two 500-Watt Light Heads), or 2000-Watt (Four 500-Watt Light Heads)

Power Requirements: 120VAC, 60 Hz, 8.34Amp

Potable Water Usage: N/A

Graywater Produced: N/A

Fuel Requirements: N/A

Additional Fuel Requirements for MSCW: N/A

**Table 12. Floodlight Subsystem Shipping Configuration.**

Container/ Item	Type Floodlight		Quantity		Cube (each)	Weight (each)
	1000W	2000W				
04C-1	1000W	2000W	1	1	See Note	See Note
12C-3	1000W	2000W	1		See Note	See Note
12C-2	1000W	2000W	1		See Note	See Note
12C-5	1000W	2000W	1		See Note	See Note
12C-4	1000W	2000W	1		See Note	See Note
12C-1	1000W	2000W	1		See Note	See Note
01B-14	1000W	2000W	1	1	See Note	See Note
01B-13	1000W	2000W	1	1	See Note	See Note
01B-15	1000W	2000W	1	1	See Note	See Note
03B-1	1000W	2000W	1	1	See Note	See Note
01B-4	1000W	2000W	1	1	See Note	See Note
01B-3	1000W	2000W	1	1	See Note	See Note
01B-6	1000W	2000W	1	1	See Note	See Note
01B-5	1000W	2000W	1	1	See Note	See Note
01B-1	1000W	2000W	1	1	See Note	See Note
01B-2	1000W	2000W	1	1	See Note	See Note
01B-11	1000W	2000W	1	1	See Note	See Note
01B-10	1000W	2000W	1	1	See Note	See Note
01B-12	1000W	2000W	1	1	See Note	See Note
01B-7	1000W	2000W	1	1	See Note	See Note
01B-9	1000W	2000W	1	1	See Note	See Note
01B-8	1000W	2000W	1	1	See Note	See Note
10E-2	1000W	2000W	1	1	See Note	See Note
10E-1	1000W	2000W	1	1	See Note	See Note
11D-1	1000W	2000W	3	2	See Note	See Note
03B-2	1000W	2000W	1	1	See Note	See Note
<b>TOTAL</b>	<b>1000W</b>	<b>2000W</b>	<b>28</b>	<b>22</b>	See Note	See Note

Note: The cube and weight of each packed floodlight are included in the respective container data

**Modification System (Power Generation)**

Number of Sites: 9

Area: 1,300-ft<sup>2</sup>/site

Capacity: 208VAC/3 phase/60 Hz, 120kW/site

Power Requirements: N/A

Potable Water Usage: N/A

Graywater Produced: N/A

Blackwater Produced: N/A

Fuel Requirements: TQG, 16units/5Gal/hr/80Gal/hr/ = 1,920 Gallon/day

**Table 13. Modification System (Power Generation) Shipping Configuration.**

Container/Item	Type	Quantity	Cube (each)	Weight (each)
21A	TRICON	1	413.3 ft <sup>3</sup>	8,880 lbs
21B	TRICON	1	413.3 ft <sup>3</sup>	7,812 lbs
60 kW TQG	Skid	24	130 ft <sup>3</sup>	4,240 lbs
<b>TOTAL</b>		<b>26</b>	<b>3,946.6 ft<sup>3</sup></b>	<b>118,452 lbs</b>

**Modification System (Prime Power)**

Number of Sites: 1 Generating Site, up to nine transformer sites  
 Area: 8,400-ft<sup>2</sup>/generating site, 400-ft<sup>2</sup>/each transformer site  
 Capacity: Four 750kVA Trailer/Generators  
 Power Requirements: N/A  
 Potable Water Usage: N/A  
 Graywater Produced: N/A  
 Blackwater Produced: N/A  
 Fuel Requirements: 3,000 - 4,500 Gallon/day (depending on utilization)

**Table 14. Modification System (Prime Power) Shipping Configuration.**

Container/Item	Type	Quantity	Cube (each)	Weight (each)
31A	TRICON	9	413.3 ft <sup>3</sup>	5,268 lbs
31C	TRICON	1	413.3 ft <sup>3</sup>	5,754 lbs
32A	TRICON	1	413.3 ft <sup>3</sup>	7,575 lbs
32B	TRICON	1	413.3 ft <sup>3</sup>	10,018 lbs
<b>TOTAL</b>		<b>12</b>	<b>4,959.60 ft<sup>3</sup></b>	<b>28,607 lbs</b>

**Modification System Cold Weather**

Number of Sites: N/A  
 Area: Approximately 238,053-ft<sup>2</sup>  
 Capacity: Augmentation for module serving 550 soldiers, 110 Support personnel  
 Power Requirements: 814.5kW  
 Potable Water Usage: 21,125 Gallon/day  
 Graywater Produced: 17,575 Gallon/day  
 Blackwater Produced: 3,780 Gallon/day  
 Fuel Requirements: 1,045 Gallon/day

**Table 15. Modification System Cold Weather Shipping Configuration.**

Container/Item	Type	Quantity	Cube (each)	Weight (each)
41A	TRICON	17	413.3 ft <sup>3</sup>	4,660 lbs
42A	TRICON	1	413.3 ft <sup>3</sup>	6,700 lbs
42B	TRICON	1	413.3 ft <sup>3</sup>	7,740 lbs
42C	TRICON	1	413.3 ft <sup>3</sup>	7,620 lbs
43A	Modified TRICON	3	413.3 ft <sup>3</sup>	6,860 lbs
44A	TRICON	1	413.3ft <sup>3</sup>	7,146 lbs
45A	Modified TRICON	1	413.3 ft <sup>3</sup>	6,860 lbs
<b>TOTAL</b>		<b>25</b>	<b>10,332.50 ft<sup>3</sup></b>	<b>135,866 lbs</b>

**END OF WORK PACKAGE**



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**FORCE PROVIDER  
THEORY OF OPERATION**

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**GENERAL**

One 550-Person FP camp is termed a module. Modules can be complexed into a larger facility to meet particular operational requirements. Each of the thirteen functional areas of an FP module is called a subsystem. In addition, three modification systems are available to supplement a module's capability for power generation and cold weather operation. This WP describes the function and inter-dependence of each subsystem within an FP module, including the modification systems.

The FP layout can be adapted to suit unique topographical features or to meet specific operational requirements. Some subsystems are normally located at two separate sites within a module to provide more decentralized services, including the latrine and shower facilities. Other subsystems such as water distribution and wastewater collection facilities are also decentralized and located in proximity of serviced facilities.

Food service, laundry, shower, and latrine subsystems are serviced by one of four potable water distribution sites. Particular layout and anticipated usages will determine the exact sharing scheme. These subsystems also return wastewater to the wastewater collection subsystem. The latrine subsystem collects blackwater to be evacuated using the Wastewater Evacuation Tank/Trailers (WWET/T).

FP electrical power can be provided through tie-in to a commercial system, or generation by a Power Generation Modification Subsystem using 60kW Tactical Quiet Generators (TQG). Alternatively, a Prime Power Modification Subsystem using large, commercial generators and transformers is also available. Power is distributed through Power Distribution Illumination Systems, Electrical (PDISE), which service each subsystem with 20-Amp, 40-Amp, or 60-Amp power required for operation.

The basic FP module was designed for operation in temperate climates above 32 °F. When operations in lower temperatures are anticipated, the modules should be augmented with a Modification System Cold Weather. This can be applied to any deployed module, or installed at the time the module is set up. The subsystem provides suitable additional equipment that in conjunction with implementation of procedural steps to mitigate the effects of cold weather allows operation of a module in temperatures to -15 °F.

Equipment includes:

- Heat trace water hoses to prevent freezing of water supply and wastewater collection hoses.
- 120,000-BTU Army Space Heaters (ASH) to heat the TEMPER.
- Additional TEMPER to house potable and wastewater storage tanks, as well as wastewater vacuum tank trailers.
- Reconfigured hose sets to allow interior hose routing in kitchen, laundry, shower and latrine tents.
- Tools and materials to facilitate cold weather operation.
- Modified TRICON to house water heating equipment.

Specific procedural steps include:

- Positioning subsystems in configurations and proximity that minimize site preparation, exposure of external water hoses, facilitate snow plowing/removal, and fuel supply operations.
- Reconfiguring power groups (optional) and re-allocating reduced power requirements.
- Marking utility line locations to prevent damage from snow removal operations.

The requirement for cold weather equipment will normally be determined during deployment planning, based on prevailing climatic conditions, seasonal variations, and length of anticipated deployment. Concurrent deployment of this equipment is the preferred method of installation because it requires less effort and assures maximum benefit.

## **FORCE PROVIDER SUBSYSTEMS**

### **Transportation and Storage Container Subsystem**

This subsystem consists of the various types of containers used to ship an FP module. A total of eighty, 8 x 8 x 6.5-foot TRICON, and ten 8 x 8 x 20-foot ISO containers are used to ship a standard module. In addition, twenty-two reusable bulk equipment packing containers of various sizes are used to pack loose equipment into some of the TRICON. Once the containers are emptied at destination, they are placed into a consolidated storage area, or can be staged to provide temporary storage for customer unit or subsystem operation, if necessary.

### **Billeting Subsystem**

There are five billeting groups in a module, each consisting of six 32-foot TEMPER. Each TEMPER has living quarters and storage space for 19 soldiers and their personal gear. Sufficient cleaning materials (i.e. mops, brooms, etc.) are provided with each TEMPER to maintain a clean, healthy living environment. Fluorescent lighting, convenience power, bunk beds, chairs and footlockers are also provided. Each billet TEMPER is environmentally controlled using an ECU.

### **Laundry Subsystem**

A Containerized Batch Laundry (CBL), complexed to a TEMPER, provides field laundry service to a customer unit. The CBL contains commercial laundry equipment and is capable of washing and drying 200 pounds of cotton, woolen, and durable press items per hour. Water to CBL is provided through the water distribution system, or through re-supply of its own 3,000-Gallon storage tank, depending on water supply. Wastewater produced by the CBL is evacuated by a sewage ejection pump into the wastewater collection subsystem. Receipt, folding, sorting, disbursement and other administrative actions are conducted in a 20-foot x 32-foot TEMPER, which is environmentally controlled using an ECU.

### **Latrine Subsystem**

The latrine subsystem consists of two each Containerized Latrines (CL), at two separate locations, each providing six commodes, a three person trough urinal, a shave stand, and hot water heater. Each CL is designed to support 150 personnel on a continuing basis with reversible signs to designate it male or female. Blackwater generated by latrines remains in holding tanks within each unit until removed using a Wastewater Evacuation Tank Trailer (WWET/T) for off-site disposal, or evacuated through a 4-inch valve assembly and pipes to a holding tank or field disposal facility. Water to each latrine is provided by the water distribution subsystem. Each CL is environmentally controlled using a 33,000-BTU commercial air conditioner.

### **Shower Subsystem**

Two shower sites are provided, each consisting of one each, CSS containing twelve shower stalls, complexed to a 20-foot x 32-foot TEMPER. Water to the CSS is provided through the water distribution subsystem and is heated by an M-80 water heater at each site before being pumped through a mixing valve to the shower heads and twelve sink taps. Wastewater from each shower site is moved using a SEP into the wastewater collection subsystem. Shower TEMPER are environmentally controlled using ECUs.

### **Potable Water Distribution Subsystem**

Potable water is stored in 20,000-Gallon Collapsible Fabric Tank(s) (Type I). As necessary, the tanks are frequently refilled from external sources via line haul tankers. Chlorination levels are maintained through careful monitoring and regulated input using a hypochlorinator. Separate tank locations distribute water to the latrine and shower sites, and the laundry and food service facilities. Water pressure is sustained by a water pump connected to each water tank. Drinking water may also be distributed using four, 400-Gallon water tank trailers as well as nozzle dispensing points located along the main water supply line.

### **Fuel Storage and Distribution Subsystem**

The fuel storage and distribution subsystem receives and stores up to 20,000 gallons of JP-8 fuel in two 10,000-Gallon collapsible fabric tanks. Fuel is dispensed from these tanks using the Force Provider Fuel System (FPFS) connected to the tanks using the fuel distribution system tank connection kit equipment. Using commercial type nozzles, fuel can be dispensed directly into vehicle fuel tanks, 500-Gallon collapsible fabric fuel drums, fuel cans, or other approved container.

### **Wastewater Collection Subsystem**

The wastewater collection subsystem collects, and stores for disposal, wastewater from food service, showers, and laundry subsystems. Wastewater is pumped by a SEP from each subsystem serviced into the wastewater mainline. A trash pump, installed in the main line pushes the wastewater into one of the two 20,000-Gallon Collapsible Fabric Tank(s) (Type II).

Tanks are emptied by wastewater hauling equipment, or they may be connected directly to a municipal wastewater system. Alternatively, a field expedient disposal site may be used. If the tanks cannot be emptied via gravity flow, the trash pump together with appropriate components of the wastewater connection assembly, and 125-GPM, installed on the main line, may be temporarily disconnected and installed in the discharge line to drain the tanks.

### **Food Service Subsystem**

The Food Service Subsystem may consist of a tent-type facility, or an Electric Kitchen (EK) both of which are described in WP 0011 00. Both type facilities are capable of delivering three hot meals daily to 660 personnel. Commercial appliances are used for cooking, heating and serving meals. The subsystem is provided with potable water by the potable water distribution subsystem. The tent system uses an internal water manifold to direct hot and cold running water to various appliances, including three field sinks, coffee urn, pot filler and ice making machines. An M-80 water heater generates hot water for food service usage with diesel fuel provided by the fuel storage and distribution subsystem. Wastewater is collected from the three field sinks and passed through a grease trap before entering the wastewater collection subsystem through a dedicated SEP. Electrical power is provided by a dedicated power group. Both systems are environmentally controlled using ECUs.

### **Site Preparation and Maintenance Subsystem**

This subsystem is a collection of equipment, tools, and implements to be used in preparing a designated site for setup of an FP module. Site preparation equipment is shipped in a single TRICON (11A) and can be stored therein when not in use. The host unit is responsible for placement and control of the equipment.

### **Administration Subsystem**

The purpose of the administration subsystem is to provide accommodations for the host unit, including administrative functions, unit supply, maintenance, and a first aid station. Discretionary functions such as a Post Exchange or general storage can also be accommodated. Six Type IV, TEMPER are provided for these functions, which may be located as circumstances may dictate. TRICON may also be used for storage purposes. The TEMPER are environmentally controlled using ECUs.

System Support Packages (SSP) assembled for each subsystem consist of a 30-Day supply of repair or replacement parts and components for general purpose application or to provide repair parts for specific equipment. Most SSP are shipped in two separate TRICON (11B and 11C). Additionally, one each latrine SSP is shipped with each CL (TRICON 3A). At the discretion of the host unit commander, these system support packages can either be distributed to the relevant subsystems or centrally maintained within the administrative subsystem to support maintenance operations.

### **Morale, Welfare and Recreation Subsystem**

The Morale, Welfare and Recreation (MWR) facility is provided to house re-constitutional and recreational services for visiting units. These services may include, but not necessarily be limited to: finance, mail

handling, telephones, barber shop, and tactical field exchange. The services also include a variety of recreational equipment. The facility is housed in two 20-foot x 64-foot TEMPER. Each TEMPER is environmentally controlled using an ECU. External, provisional sports fields for such activities as baseball, volleyball, and football may be available as space permits.

### **Floodlight Subsystem**

The floodlight subsystem provides twenty-five 1000 Watt and twenty 2000 Watt tripod floodlights to be installed at locations frequented by operator and customer personnel during normal operation. They illuminate areas to provide safe personnel passage and operation of machinery during the hours of darkness. The lights require 120V, 60 Hz power. Using 50-foot extension cords provided for this purpose, they can be plugged into the TEMPER electrical distribution box, or 20-Amp external connectors on the containerized systems. Suggested floodlight layout schemes for various subsystems are provided in WP 0035 00.

## **FORCE PROVIDER MODIFICATION SYSTEMS**

### **Modification System (Power Generation) (MSPG)**

The MSPG provides twenty-four, 60-kW Tactical Quiet Generators (TQG) to be operated by Force Provider Company facilities support section personnel, as described in TM 9-6115-645-24 and WP 0036 00 of this manual. The TQG organized into eight power generation clusters of three TQG each. The three TQG are run on a 14-on, 7-off, 21-hour rotating duty cycle. Power generated by TQGs is supplied to a Power Distribution Illumination System, Electrical (PDISE) distribution centers (PDISE are supplied as part of the subsystems with which they are used) and further distributed to TEMPER power controls and/or equipment. Each power generation cluster is fueled from a 500-Gallon collapsible fabric fuel drum, which provides diesel fuel for 2 to 3 days of operation.

### **Modification System (Prime Power) (MSPP)**

For extended deployments, an FP module can be supported by a prime power team (TOE 05616L000). Prime power employs either a 3.0 Mega-watt (MW) power plant operating MEP-012A, or MEP-208A generators. Alternatively, a 3.7 MW power plant using MEP-810B generators may be used (Refer to FM 3-34.480, Engineer Prime Power Operations). Three-phase primary power will be distributed to step-down transformers through buried, shielded 5 Kv conductor cable. From the transformers, 100-A power is distributed using 100-A/50-foot service cables to the PDISE. Two separate 10,000-Gallon collapsible fabric fuel storage tanks are provided for fuel storage, when prime power is utilized. Adapters and 1½-inch hoses are also provided for connection to the prime power generator sets. Installation of the prime power plants and the high voltage distribution cables, and step-down transformers/distribution centers shall be planned and accomplished only by trained prime power teams.

Prime power personnel will oversee and inspect the cable trenches being prepared as part of the site preparation, and prior to laying the cable. The cable will be laid directly in the ground and covered. There may be special instances where additional protection to the cable is necessary. Conduit (not provided) will be necessary i.e. where high vehicle or heavy traffic occurs. If it is necessary to surface lay medium-voltage cable, where untrained personnel will have access to it, it should be encased in conduit. Refer to WP 0022 00, under Site Selection, Preparation and Planning for emplacement of conduits.

### **Modification System Cold Weather (MSCW)**

The MSCW provides additional equipment to permit FP operations in temperatures to -15<sup>0</sup> F. Packed in twenty-one standard and four modified TRICON, the system includes a site preparation kit consisting of a collection of tools designed for use during set up and operation of FP equipment in cold temperatures and frozen soil. The primary components of the MSCW are:



- Army Space Heaters (ASH)
- Additional Standard and Specialized TEMPER Assets
- Heat Traced Water Hoses
- Modified TRICON / TRICON Adapter Kit
- Snow Removal Equipment
- M80 Water Heater Modified Exhaust Stack
- MSCW Site Preparation Kit

The equipment provided is used with the various subsystems as described in WP 0038 00, which also includes special operating procedures to mitigate the effects of extreme cold.



**CHAPTER 2**  
**OPERATOR INSTRUCTIONS**  
**FOR**  
**FORCE PROVIDER**



**FORCE PROVIDER  
DESCRIPTION AND USE OF OPERATOR CONTROLS AND INDICATORS**

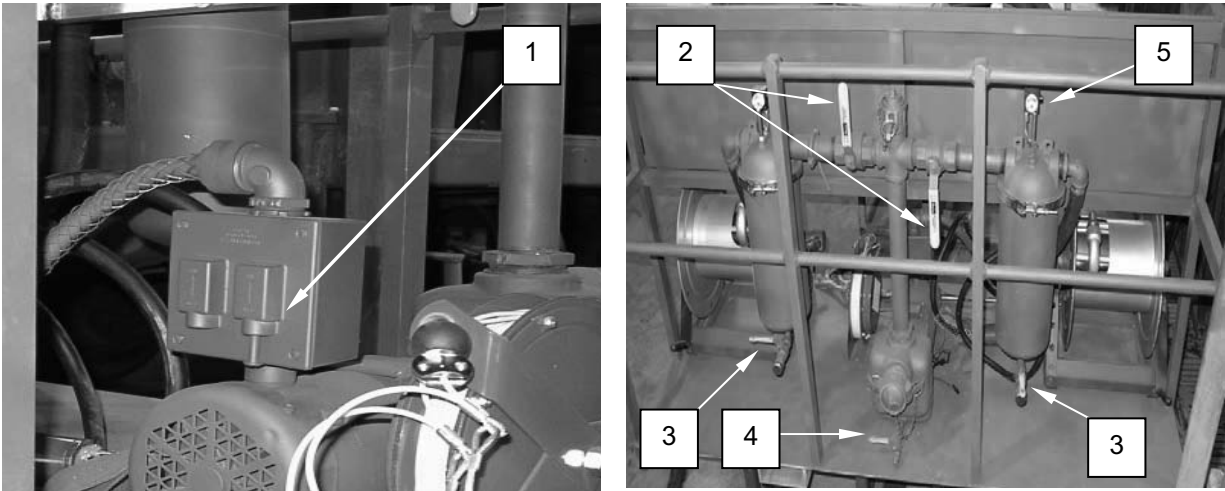
**GENERAL**

Controls, indicators, labels and instruction plates pertaining to Force Provider equipment that is covered in other technical manuals are not reflected in this WP. Force Provider company subsystem operators are responsible for familiarizing themselves with the publications pertaining to the equipment they will operate. WP 0081 00, References, provides a comprehensive listing of publications pertaining to Force Provider.

**SCOPE**

This work package describes the controls, indicators, labels and instruction plates found on Force Provider equipment.

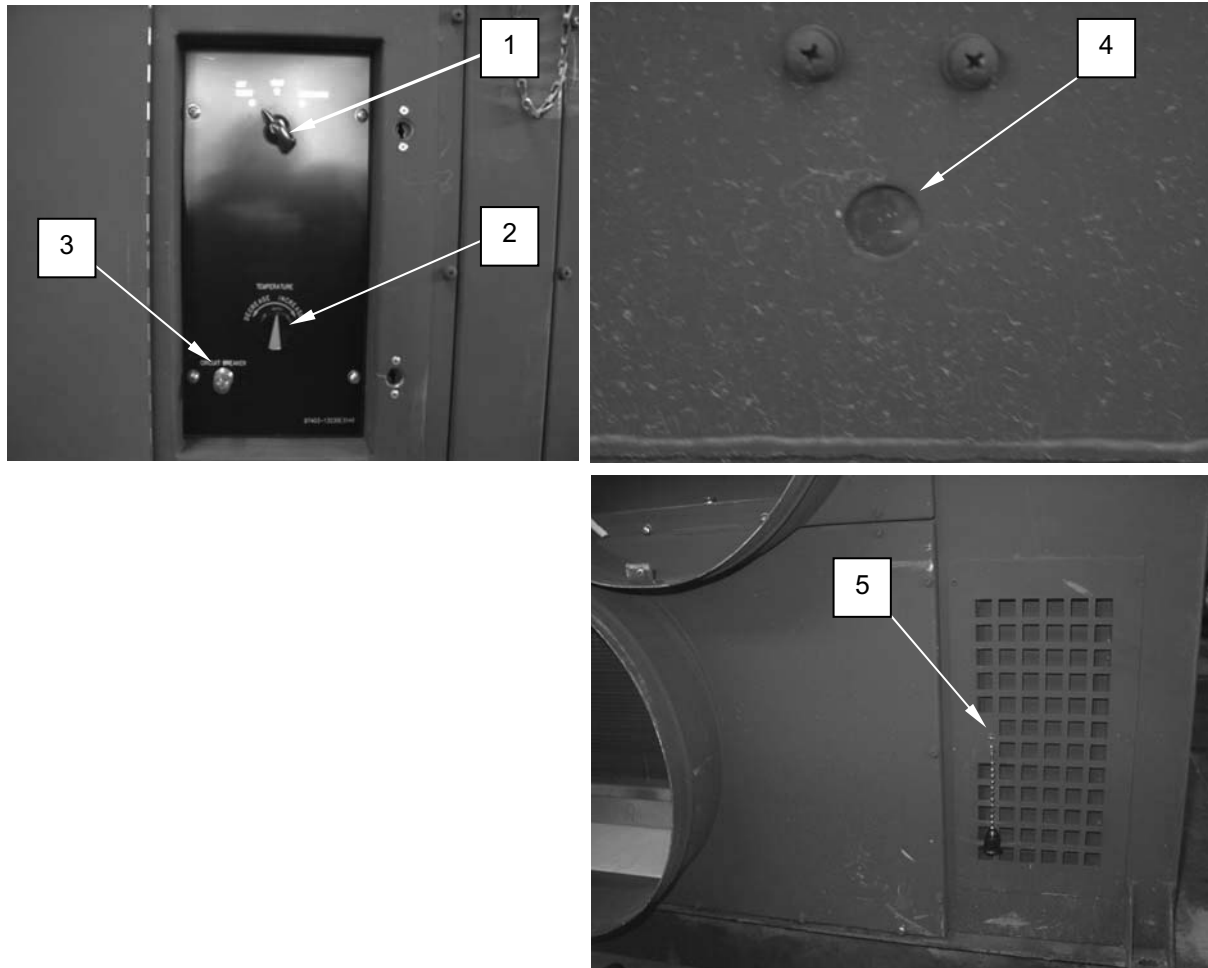
**CONTROLS AND INDICATORS, FORCE PROVIDER FUEL SYSTEM (FPFS)**



**Table 1. Controls and Indicators, Force Provider Fuel System (FPFS).**

<b>Key</b>	<b>Control and Indicator</b>	<b>Function</b>
1	Pump ON/OFF Switch	Controls operation of pump
2	Supply Valve (2)	Controls flow of fuel to
3	Vacuum Cylinder Drain Valve (2)	Permit draining of vacuum cylinders
4	Inlet Manifold Drain Valve	Permits draining of pump
5	Pressure Gauge (2)	Indicate pressure

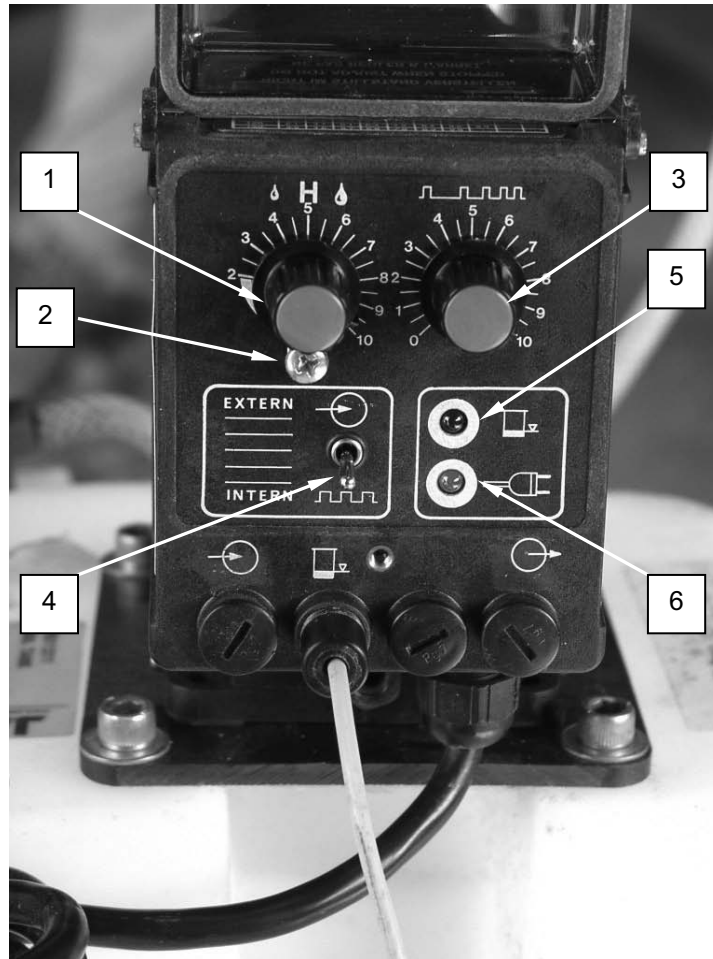
**CONTROLS AND INDICATORS, ENVIRONMENTAL CONTROL UNIT (ECU)**



**Table 2. Controls and Indicators, Environmental Control Unit (ECU).**

<b>Key</b>	<b>Control and Indicator</b>	<b>Function</b>
1	Mode Selector	Selects mode of operation
2	Temperature Control	Regulates temperature during cooling and heating mode
3	Circuit Breaker Reset	Resets a tripped circuit breaker
4	Sight Glass	Indicates refrigerant condition when ECU in cooling mode
5	Fresh Air Damper Control	Regulates the volume of fresh air circulation

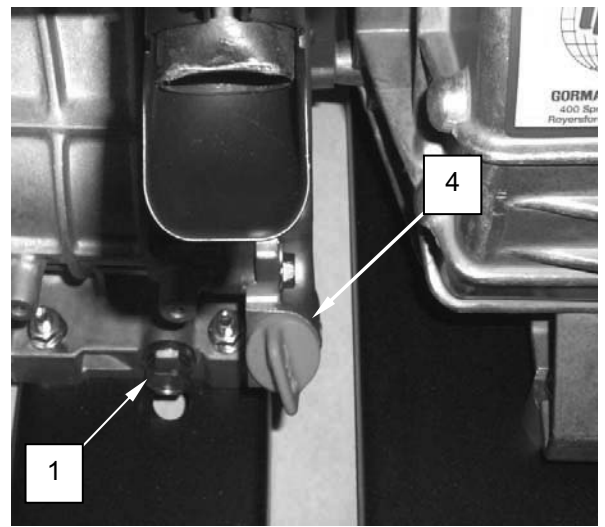
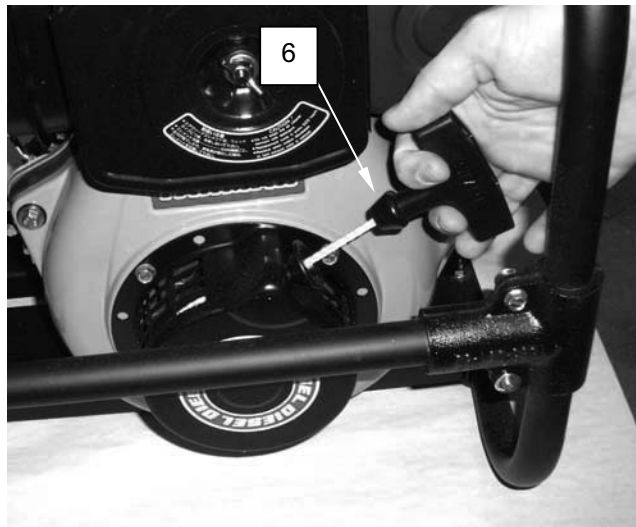
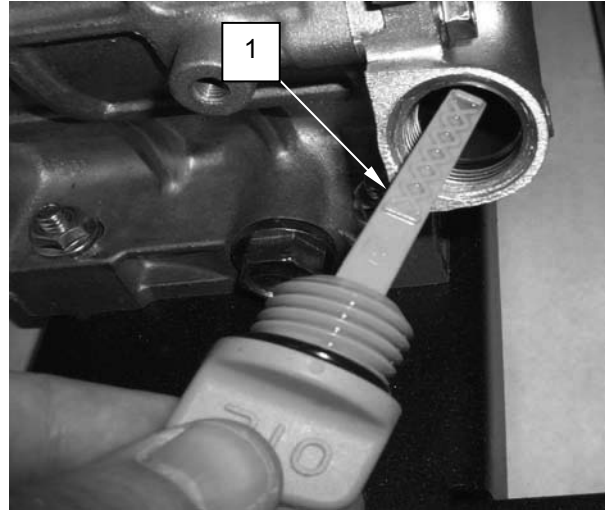
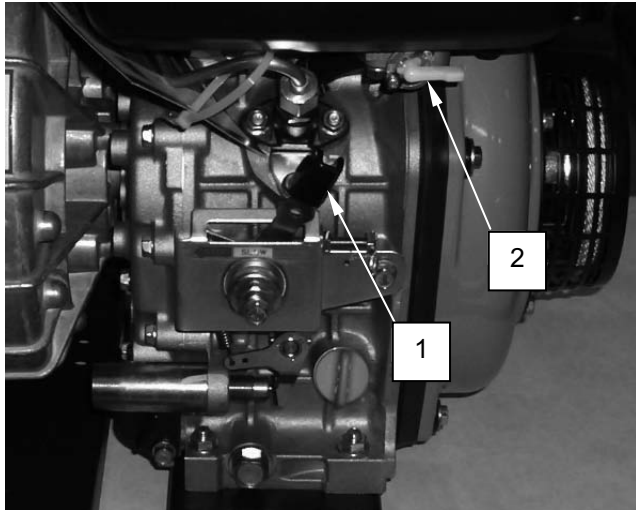
**CONTROLS AND INDICATORS, HYPOCHLORINATOR**



**Table 3. Controls and Indicators, Hypochlorinator.**

Key	Control and Indicator	Function
1	Stroke Length Adjustment	Selects length of stroke
2	Set Screw	Sets stroke length adjustment knob
3	Stroke Frequency	Stroke frequency adjustment (on internal control position)
4	Internal/External Selector Switch	Selects internal or external operating control
5	Chemical Low Level Light	Indicates low chemical (chlorine) level
6	Operating Light	Indicates normal operation

**CONTROLS AND INDICATORS, TRASH PUMP**



**Table 4. Controls and Indicators, Trash Pump.**

<b>Key</b>	<b>Control and Indicator</b>	<b>Function</b>
1	Control Lever	Regulates engine speed
2	Fuel Cock	Regulates fuel flow
3	Dip Stick Left Side	Indicates oil level
4	Dip Stick Right side	Indicates oil level
5	Oil Drain Plug	Drains oil from engine
6	Recoil Starter	Starts engine



**LABELS AND INSTRUCTION PLATES**

The following labels and instruction plates are found on the FPFS.

**Manufacturing Label****FORCE PROVIDER FUEL SYSTEM  
(FPFS)****FSCM / CAGE: 81337****PART #: 9-1-0561****NSN:****GROSS WEIGHT: 500 lbs****DATE: (MONTH & YEAR) 0/00****SERIAL #: FPFS 0000****GPM: PUMP 50 GPM  
FUEL NOZZLE 12 GPM**

## Abbreviated Set-up Instructions

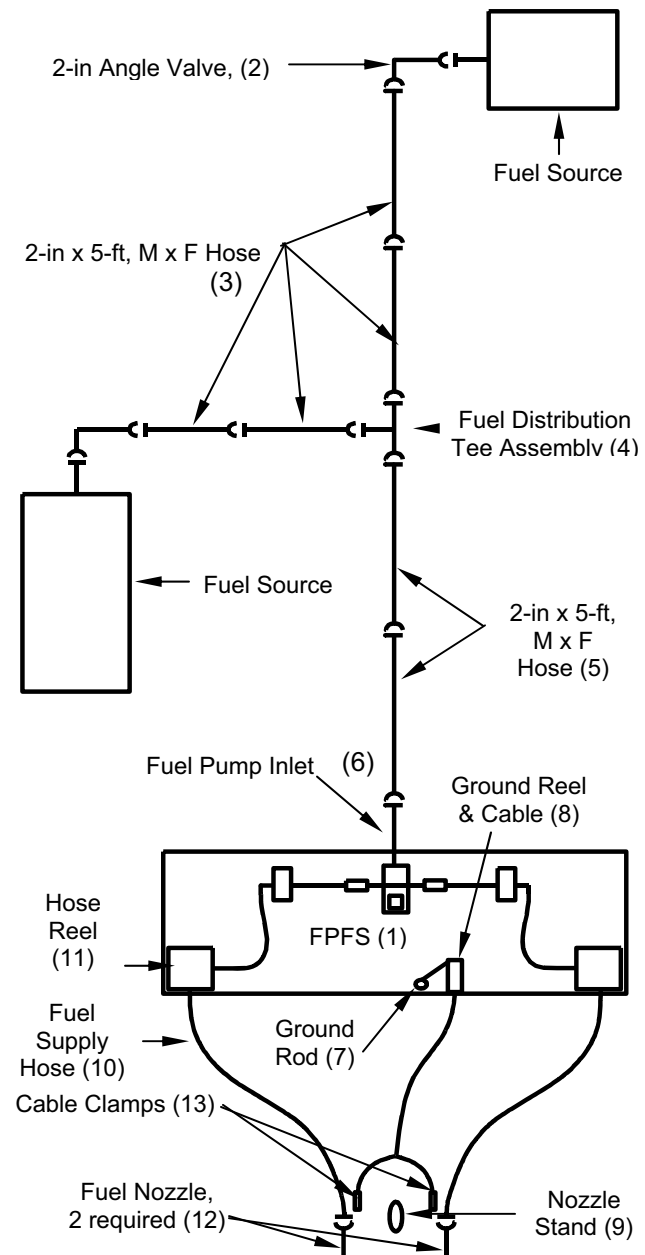
# Set-up and Operating Instructions for the Force Provider Fuel System

## Set-up Instructions

1. Place the FPFS (1) approximately twenty (20) feet from your fuel source.
2. Connect the Angle Valves (2) to the fuel sources. (Note!-Valves in closed Position)
3. Connect two sections of 2-in Hose (3) to each Angle Valve (2).
4. Connect the 2-in Hoses (3) to the valved ends of the Fuel Distribution Tee (4).
5. Connect two sections of 2-in Hose (5) to the remaining cam-lock of the Fuel Distribution Tee (4).
6. Position the FPFS (1) and connect the 2-in Hose (5) to the fuel pump inlet (6).
7. Install the Ground Rod (7) into the ground.
8. Place the Nozzle Stand (9) approximately 25 to 30 feet away from the FPFS (1).
9. Unwind the Fuel Supply Hose (10) from the Hose Reel (11) approximately 25 to 30 feet away from the FPFS (1).
10. Connect the Fuel Nozzle (12) to the Fuel Supply Hose (10) and place on the Nozzle Stand (9).
11. Unwind the Ground Cable Clamps (13) and connect to the Nozzle Stand (9) for storage until needed.

**See other side for operating instructions**

## FPFS Schematic for Two-Point Fueling

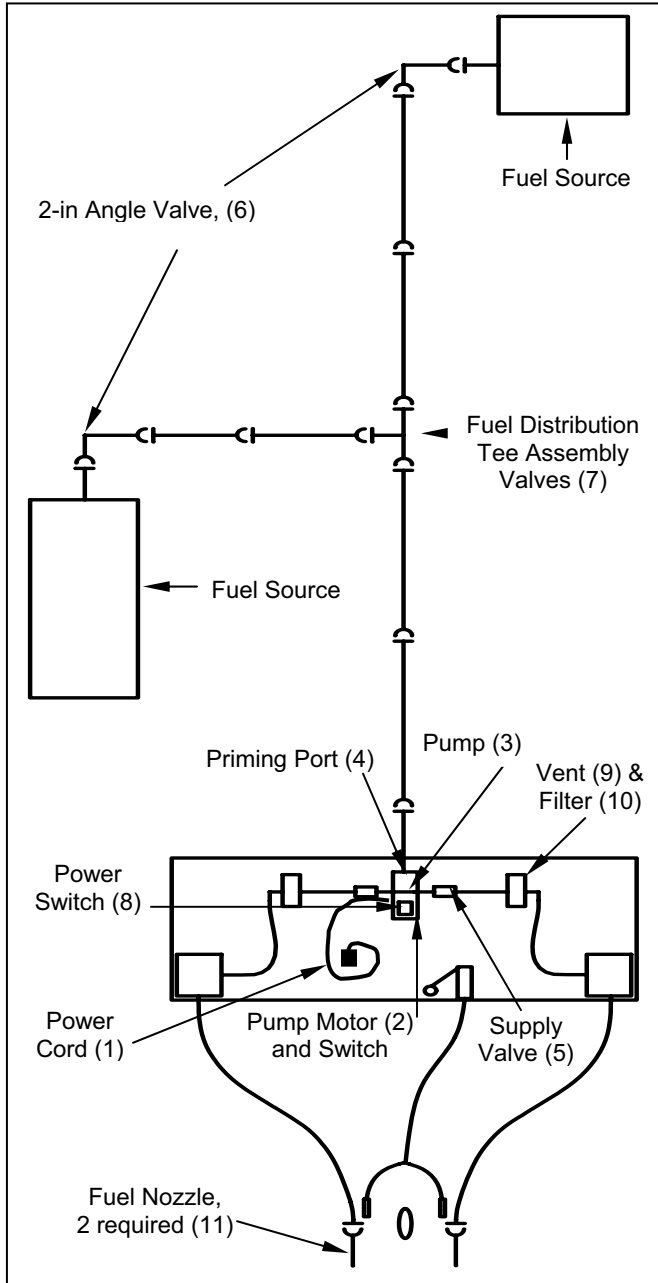


# Set-up and Operating Instructions for the Force Provider Fuel System

## Operating Instructions

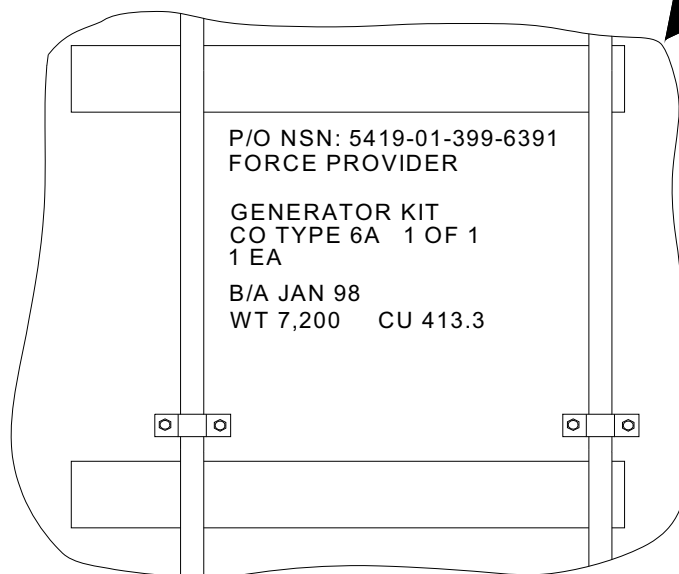
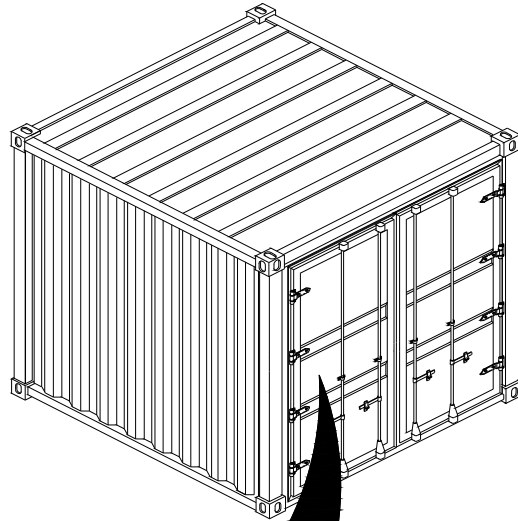
1. Connect Power Cord (1) to power source.
2. Check Pump Motor (2) for proper rotation, By jogging the pump switch on and off.
3. Prime Pump (3) by opening Priming Port (4). Fill Pump (3) with fuel.
4. Put the Supply Valves (5) in the open position.
5. Open the Angle Valves (6) at the fuel source.
6. Open the Fuel Distribution Tee Assembly Valves (7)
7. Before operating check all fuel lines and components for leaks.
8. Turn on Power Switch (8).
9. Open the Vent (9) located on top of each Filter (10).
10. Allow the air to vent fully. Close Vent (9) when fuel begins to flow out of the vent.
11. Check all fuel lines, piping and components for fuel leaks.
12. With a proper fuel container, vent the Nozzles (11) and lines of air.

## FPFS Schematic for Two-Point Fueling



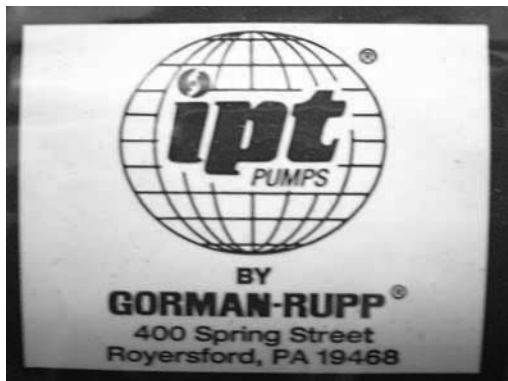
**TRICON/ISO Container Markings****NOTE**

Markings shown here are applicable to both TRICON and ISO Containers. Markings are located on the door side of the containers but may not be uniformly positioned. The re-inspection/certification date is located on the manufacturer's data plate. HAZMAT markings, as applicable, appear on the upper panel of the right side door. Refer to drawing 9-1-0599 (81337) for details.

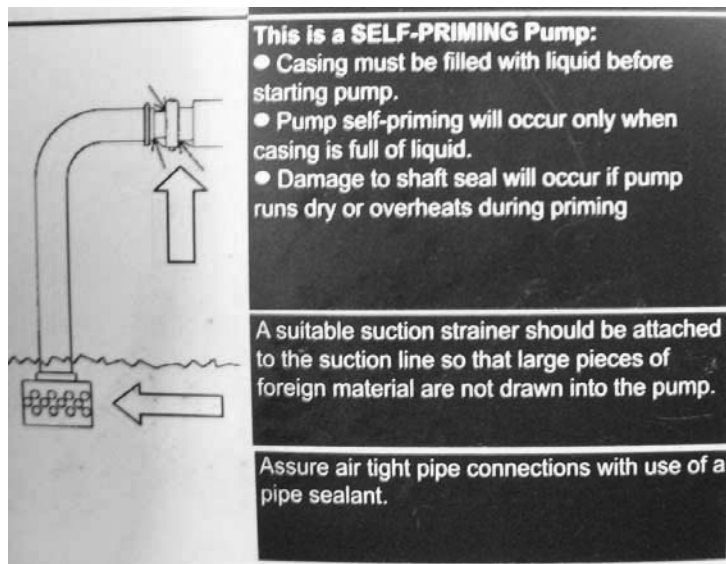


The following labels and instruction plates are found on the wastewater collection trash pump.

**Manufacturing Labels**







**Setup and Starting Instructions**



Warnings

<b>CAUTION</b>
<p><b>DIESEL FUEL</b></p> <ul style="list-style-type: none"> <li>- USE DIESEL FUEL ONLY</li> <li>- CLEAN FILTER EVERY 200 HRS</li> </ul> <p><b>ENGINE OIL</b></p> <ul style="list-style-type: none"> <li>- SAE 10W30 GRADE CD</li> <li>- CHANGE ENGINE OIL EVERY 200 HRS</li> <li>- CLEAN FILTER EVERY 400 HRS</li> </ul> <p><b>STOPPING</b></p> <ul style="list-style-type: none"> <li>- CLOSE FUEL COCK AFTER STOPPING</li> <li>- ENGINE</li> </ul>

 <b>WARNING</b>
 <p>Fill the engine crankcase with oil as specified in the engine manual.</p>
 <p>Never add gasoline to a hot engine!</p>
 <p>Engines emit carbon monoxide. <b>DO NOT</b> run in enclosed area. The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.</p>

**CAUTION !**

- Do not wash the air cleaner element with detergent.
- Replacement cycle is every 500 hours.
- Replace when output decreases or bad exhaust color is noticed.



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**FORCE PROVIDER  
SITE SELECTION, PLANNING AND PREPARATION**

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**GENERAL**

This work package outlines the technical considerations applicable to deployment of FP into a designated region. Refer to FM 4-20.27 (Quartermaster Force Provider Company) for additional planning guidance.

Although each deployment will involve a particular set of tasks reflecting unique tactical, climatic and other considerations, the following preparatory tasks are typical in identifying and preparing a site to accommodate an FP module:

- **Site Selection.** Within the area of possible locations, determine sites of suitable size and characteristics to accommodate an FP module. Refer to the general and specific site requirements for FP Subsystems, described in this WP. The initially identified sites are then more closely evaluated and the best choices are rank ordered for final selection.
- **Site Planning.** Customize an FP layout that minimizes effort and maximizes use of existing conditions and facilities at the proposed site. Specific requirements for FP subsystems must be considered. Estimate required site work and devise transport and deployment schedules. If site planning problems are encountered or unanticipated site preparation tasks become necessary, a site may be dropped and the next-best site selected. The planning phase will culminate in a comprehensive site plan and task list.
- **Site Preparation.** Execute site preparation activities as determined during planning phase. These may include land clearing, road construction, grading and emplacement of culverts, berms, drainage improvement and the construction of concrete slabs.
- **Staking and Staging.** Using the diagrams provided in this WP, as modified to suit local conditions, designate the locations of component subsystems, tents, equipment and containers with stakes on the prepared site in accordance with the site plan.

**SITE REQUIREMENTS FOR FORCE PROVIDER**

The core area of one FP module (using organic (MSPG) power) takes up approximately 10 to 12 acres; additional acreage may be needed depending on fuel supply/storage and sewage disposal methods, or when the MSCW will be employed. Additional space will also be required when Army prime power will be used. Look for the following characteristics when selecting a potential FP site:

- The site should be on relatively flat terrain.
- Avoid low points in valleys or other depressed areas, as they are susceptible to water collection.
- Avoid areas of high water tables.
- The recommended maximum average slope is four degrees.
- Only minimal grading, brush, rock, or tree removal should be required. Blasting or large rock removal should be avoided if at all possible.
- Soil stabilization requirements should be kept to a minimum. Soil stabilization will significantly increase site preparation time and cost.
- Access to an external supply road. Additional space requirements for internal roads to facilitate frequent refueling of the ASH heaters of a MSCW augmented module. Vehicular access to the CL subsystems will also be required to evacuate blackwater. In addition, sufficient space for snow removal equipment must be available.

- Proximity to potential water sources, fuel supply, and waste disposal facilities.
- Proximity to supported (customer) units, lines of communication, supply facilities.
- Consider latitude and longitude and orientation of FP components in order to minimize effects of shadows, solar radiation, and prevailing winds.

## **SITE REQUIREMENTS FOR INDIVIDUAL SUBSYSTEMS**

The following subsystem site requirements must be met to ensure their proper operation. Refer to individual staking diagrams to determine approximate square footage for each subsystem. When the module is augmented with a MSCW for operation in temperatures below 32 °F, additional requirements must be met as indicated.

**Transportation and Storage Container Subsystem.** Shipping containers should be staged as indicated in the staking diagrams presented in this work package. After unpacking they can be set aside in a separate, designated storage area. When a separate area is designated, additional space is required to provide access for material handling equipment.

**Billeting Subsystem.** Complete clearing of the area is not required. Billeting groups may be somewhat dispersed and individual TEMPER may be oriented to accommodate prevailing topography. When MSCW augmented, additional space is required to allow for ASH vehicular refueling.

**Laundry Subsystem.** Requires level ground to facilitate proper flow of potable and wastewater. When MSCW augmented, additional space is required to allow for modified TRICON, housing the M80 Water Heater, and frequent vehicular refueling.

**Latrine Subsystem.** Requires level ground to facilitate proper flow of potable water. Vehicular access is required to evacuate blackwater. When MSCW augmented, additional space is required for two 20-foot x 32-foot, Type IV TEMPER (may be complexed to form one 20-foot x 64-foot TEMPER), to include space required for ASH vehicular refueling.

**Shower Subsystem.** Requires level ground to facilitate proper flow of potable and wastewater. When MSCW augmented, additional space is required to allow for modified TRICON, housing the M80 Water Heater, and frequent vehicular refueling.

**Potable Water Distribution Subsystem.** The water tanks must be located on level ground. When MSCW augmented, the tanks are located in 20-foot x 64-foot TEMPER. The four sites supply potable water through 75-foot heat traced hoses to the supported subsystems and must be located within that distance. Additional space is required to allow for ASH vehicular refueling.

**Fuel Storage and Distribution Subsystem.** Vehicular access is required to deliver and distribute fuel. This facility should be located in proximity of a supply road. It should not be co-located or in close proximity of the Potable Water Distribution, Food Service, Billeting, or MWR Subsystems.

**Wastewater Collection Subsystem.** The wastewater collection tanks must be co-located at the same elevation, or lower than the wastewater collection mainline, to ensure proper operation. Considering this during site selection may save considerable effort in site preparation. When MSCW augmented, the tanks are located separately, in heated 20-foot x 64-foot TEMPER, which must be positioned in close proximity to serviced subsystems to allow drainage through 75-foot heat traced hoses. Space is also required for ASH vehicular refueling. In either case, if wastewater is being removed from the site by tank truck, the site must have vehicular access.

**Food Service Subsystem.** This subsystem requires a reasonably level area, free of major obstacles, that permits the complexing of the kitchen, food preparation, sanitation, and dining TEMPER. In addition, vehicular access for ration delivery, trash collection, and ASH vehicular refueling operations is required. When MSCW augmented, additional space is required to allow for modified TRICON, housing the M80 Water Heater, as well as a 20-foot x 32-foot TEMPER to be complexed to the kitchen TEMPER.



Site Preparation Subsystem. This subsystem has no space requirements, other than the positioning of one TRICON containing equipment and materials to be used in site preparation. Refer to SITE PREPARATION in this WP for specific tools, implements, and materials furnished.

Administration Subsystem. Space for up to six, 20-foot x 32-foot TEMER is required. These may be oriented to accommodate the prevailing topography. Vehicular access may be required for some of the TEMPER, such as centralized maintenance, and delivery of merchandise to a Post Exchange, or storage TEMPER. When MSCW augmented, additional space is required to allow for ASH vehicular refueling.

Morale, Welfare & Recreation Subsystem. As a minimum, requires space for two, complexed 20-foot x 64-foot TEMPER. Consideration should also be given to adjacent outdoor recreational facilities, such as playing fields. When MSCW augmented, additional space is required to allow for ASH vehicular refueling.

Floodlight Subsystem. This subsystem provides 1,000 Watt and 2,000 Watt tripod mounted floodlights to be used during site preparation and subsequent operation of FP. No separate space requirements are associated with this subsystem.

Modification System (Power Generation) (MSPG). If this power system is used, eight power clusters must be deployed, each requiring approximately 1,000 ft<sup>2</sup>. Vehicular access to refuel 500-Gallon fabric tanks with each cluster, and generator maintenance/repair is required.

Modification System (Prime Power). When this power system is used, up to eight step-down transformers must be deployed, each requiring approximately 400 ft<sup>2</sup>. These will be located in proximity of the PDISE to which they supply power. Additionally four 750kW Generators, a control van, assorted switching gear and conductor cables requiring approximately 1,700 ft<sup>2</sup> must be accommodated. A separate fuel storage facility using a 10k Gallon fabric tank must also be provided for. Vehicular access to all MSPP equipment and fuel storage tank is required. The MSPP generating facility should not be located in proximity of living and recreational facilities.

Modification System Cold Weather. The space requirements associated with this subsystem are limited to the employment of the three modified TRICON that house the M80 Water Heaters with the laundry, shower, and food service subsystems. Six additional TRICON containing MSCW equipment can be placed in consolidated storage.

## **SITE SELECTION**

Site selection commences with the identification of potential locations that, based on the analyses described in FM 4-20.27, and in consideration of the general and specific subsystem requirements outlined above, can be developed into an acceptable FP site. Potential sites are identified by conducting appropriate reconnaissance as described below. In a process of elimination, the initial list of proposed locations is then evaluated and one site deemed best suited for deployment is selected for preparation.

### **Surveys and Reconnaissance**

Reconnaissance Survey. The primary mission of the reconnaissance survey is to find a site that best meets requirements considering general layout and work required. Reconnaissance operations vary with the operational environment, assigned mission and size, type, and composition of the reconnaissance element. An aerial, map or ground reconnaissance is necessary to determine the best potential FP site.

Route Reconnaissance. Route reconnaissance includes gathering information about roads, bridges, tunnels, fords, waterways, and natural terrain features that may affect the movement of troops, equipment, and supplies to and from FP. Route reconnaissance may be hasty or deliberate. Perform a hasty route reconnaissance to determine the immediate trafficability of a specified route, limited to critical terrain data. It may be adequately recorded on a map overlay or sketch, supplemented by reports of terrain aspects.

Road Reconnaissance. Road reconnaissance is conducted to determine the traffic capabilities of existing roads and to provide more detailed information than is yielded by route reconnaissance. It may include enough information to develop work estimates for improving the road to certain standards of trafficability. Use DA Form 1248 to record this information. Use maps, overlays, and sketches as necessary.

## HOST NATION FACILITIES AND SUPPORT

Consider the type and levels of host nation support available. New construction should be avoided whenever possible. In many cases, existing sites can be expanded or rehabilitated to provide adequate space to locate an FP module. Determine the status of the following specific types of host nation support or facility requirements when selecting potential FP sites:

Initial and subsequent water supply.

Initial and subsequent fuel supply.

Disposal methods for wastewater and blackwater. These may be:

- Local contractor haul.
- Government haul to a commercial facility.
- Connection to host nation sewer system.
- Field expedient disposal method.

Existing road networks.

Availability of equipment and personnel for long haul transport and construction.

Type of electrical power supply.

Existing lines of communication.

**Terrain and Soil Analysis.** Perform this analysis in two distinct phases. First, extract and analyze basic terrain, weather and climatic factors from maps, aerial photos, climatic records, and any other available sources of data. Second, synthesize these factors to predict their influence on site layout, installation of facilities, utilities, camouflage, and operation and maintenance of FP. Make a ground reconnaissance to verify all information previously collected and to obtain data, which would not otherwise be available.

## SITE PLANNING

The recommended FP dimensional layout, as well as the layout of the individual subsystems, should be carefully studied before the final site plan is prepared to ensure all space requirements have been considered. Although the recommended typical layout for an FP module allows some flexibility in its configuration, certain dimensions and distances are critical. The recommended site plan and specific staking diagrams take overall safety requirements and critical distances into account.

When a MSCW augmented module is deployed, consider prevailing seasonal ground conditions. When soft ground conditions due to thawing are expected, it is essential that site roads and drainage is properly prepared as part of site preparation. A snow clearing and removal plan must be developed and facilities located to permit access to snow plowing equipment. Utility lines and equipment such as PDISE and switch boxes must be clearly marked to prevent damage during snow clearing. Additional space to emplace modified TRICON (43A and 45A) with the shower, laundry and food service subsystem must be considered.

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## **SPECIFIC SITE PLANNING CONSIDERATIONS FOR INDIVIDUAL SUBSYSTEMS**

The following requirements must be met to ensure that a safe and functional layout is achieved:

### **Transportation and Storage Container Subsystem.**

No unique planning considerations. Select an open area with solid ground conditions to store unused TRICON (Refer to Figure 2).

### **Billeting Subsystems**

No unique planning considerations. Refer to Figure 3, Billeting Group Staking and Staging Diagram for layout.

### **Laundry Subsystem**

Requires connections to potable water distribution, and wastewater collection subsystems. Refer to Figure 4, Containerized Laundry Subsystem Staking and Staging Diagram.

### **Latrine**

Requires connection to potable water distribution subsystem. Refer to Figure 5, Containerized Latrine Subsystem Staking and Staging Diagram.

### **Shower Subsystem**

Requires connections to potable water distribution, and wastewater collection subsystems. Refer to Figure 6, Shower Subsystem Site Staking and Staging Diagram.

### **Water Distribution Subsystem**

Refer to Figure 7, Potable Water Distribution Subsystem Site Staking and Staging Diagram. In all configurations, four sites will service laundry, latrine, shower, and food service subsystems. However, in the MSCW configuration water storage sites are located closer (within 75 feet) of the supported subsystems. Storage tanks are placed inside heated 20-foot x 64-foot TEMPER (refer to Figure 9). Water distribution is made using heat traced hoses. The following additional considerations apply:

- Water storage sites should be at a higher elevation than diesel/gasoline storage tanks to ensure that a fuel leak would not contaminate water supply.
- Consider water source of supply when placing storage tank locations. If supply is to be delivered by vehicular means, a service road must be near enough to tanks. If supply is from municipal water supply, consider proximity and slope between supply and tanks.
- Water storage sites should be selected so as to minimize the water distribution loop length.

### **Fuel Storage and Distribution Subsystem**

Use the following guidelines to position the fuel storage tanks:

- At least 15 feet away from roadways.
- At least 200 feet away from 750kW Generators (when MSPP is used).
- At least 200 feet away from other operations using Diesel fuel.
- At least 300 feet away from personnel & other operations.

Refer to Figure 8, Fuel Storage and Distribution Staking and Staging Diagram.

**Wastewater Collection Subsystem**

Requires connection to laundry, shower, and food service subsystems. Refer to Figure 9, Wastewater Collection Site Staking and Staging Diagram. Mainline must slope towards, or at least be level with SEP of serviced subsystems. Storage tanks should be located 200-feet from any other subsystem. In the MSCW configuration tanks must be located within 75-feet of the serviced facility.

**Food Service Subsystem**

The dining (20-foot x 96-foot) and kitchen (20-foot x 48-foot) TEMPER must be positioned on nearly level ground to minimize risk of TEMPER damage. When possible, a hardened floor system should be prepared for the kitchen, due to heavy floor loads and usage. Refer to Figure 10, Food Service Subsystem Staking and Staging Diagram.

**Site Preparation and Maintenance Subsystem**

No unique requirements.

**Administration Subsystem**

No unique planning considerations. Refer to Figure 11, Administration Subsystem Staking and Staging Diagram.

**Morale, Welfare, and Recreation Subsystem**

Two 20-foot x 64-foot TEMPER should be positioned on nearly level ground. No unique planning considerations. Refer to Figure 12, MWR Subsystem Staking and Staging Diagram.

**Floodlight Subsystem**

No unique requirements.

**Modification System (Power Generation)**

Each MSPG cluster must be positioned in accordance with site plan marked with control points and MSPG option points for individual subsystems serviced. The 60-kW TQGs must be located within 90-feet from most remote PDISE M100 in the power group (refer to Figure 13). The 500-Gallon fuel storage drums must be located as follows:

- At least 15 feet away from roadways.
- At least 200 feet away from other operations using Diesel fuel.
- At least 300 feet from personnel & other operations.

Fuel drums and generators must be accessible by wheeled vehicles for service on a regular basis, and repair/replacement of equipment.

In providing for the reduced MSCW power requirements (refer to Table 3. FP Module Data Summary/MSCW Data Summary in this WP to determine total requirements) the planner's choice is to either retain the standard power group assignment and alter the generator operating schedule, or reassign power groups, which permits shut down of about a third of the power groups but requires reconfiguration of the power grid.

### **Modification System (Prime Power)**

There is no specific staking diagram for the MSPP. The location of the step-down transformers is determined by the location of the supported subsystems. The power generating site should be located to allow vehicular access. The fuel storage area should be located so that it is:

- At least 15 feet away from roadways.
- At least 200 feet away from 750kW Generators
- At least 200 feet away from other operations using Diesel fuel.
- At least 300 feet away from personnel & other operations.

### **Modification System Cold Weather**

No unique requirements.

## **PREPARING THE SITE PLAN AND TASK LIST**

The preparation of a site plan and a related task list is necessary to determine the types of tasks required during preparation of the site and in what sequence the tasks need to be accomplished. The following considerations should be addressed when preparing the site plan and task list:

### **Site Plan**

- Consider the type of augmentation required and modification system used with the FP module.
- Tailor the recommended FP layout to fit the geographical features of the site.
- Use aerial photo or map, properly scaled, to arrange FP on site.
- Modify particular subsystem(s) as required, always keeping in mind the general and specific requirements and limitations.
- Mark control points for each subsystem on site plan.
- Determine and mark locations of roads, berms, grading, and culverts requiring site preparation on the site plan.

### **Task List**

Using the site plan and existing conditions, develop the task list, outlining site preparation and earthwork/construction, which must take place prior to deployment. List required tasks in the sequence in which they must be accomplished.

Modify Tables 1 and 2, FP Shipping and Deployment Sequence, respectively, to accommodate unique situations of anticipated site preparation.

## **DEPLOYMENT SCHEDULE**

Transport planning factors must be considered as part of an FP deployment. These factors should be used in conjunction with Table 1, FP Shipping Sequence, to develop an overall deployment schedule. In general, the deployment schedule outlined in Table 2 should be tailored to meet specific situations. Each TRICON can be shipped on a single USAF 463 pallet.

**Table 1. Force Provider Shipping Sequence.**

Subsystem	Container Type/Item (Quantity)	Details/Notes
Site preparation and maintenance support material	11A (1), [44A] (1) 400-gallon tank trailers (4)	[44A] contains MSCW site preparation tools/materials. Tripod Floodlights are shipped in TRICON 1B (15), 3B (2), 4C (1), 10E (2), 11D (1).
Fuel Storage and Distribution (FPFS)	7B (1), 7C (1) [41A] (2)	TRICON 7C contains Prime Power Fuel Kit. Ship only if MSPP is deployed Fuel Drum Adapters located in 41A Utility line marking material in 44A.
Latrine	3A (4), Wastewater Evacuation Tank/Trailer (2) [45A Modified TRICON] (1)	WWET/T TEMPER in [42A,B,C and 43A] Endwalls in [45A].
Potable Water Distribution	5A (2), 5B (1), [43A Modified TRICON] (3)	Bladder TEMPER in [43A].
MSPG (if used)	21A (1), 21B (1), TQG (24)	Ship only if MSPG is being used Utility line marking material in [44A].
MSPP (If used)	7C (1), 31A (9), 31C (1), 32A (1), 32B (1)	Ship only if MSPP is being used Utility line marking material in [44A].
Administration	12B (1), 12C (5), 12E (1), 12F (3)	Utility line marking material in [44A].
Wastewater Collection	8A (1) (ISO), 8B (1), 8C (1), 8D (1)	Utility line marking material in [44A]. Bladder TEMPER in [43A].
Food Service	10A(1) (ISO), 10B (1), 10C (1), 10D (1), 10E (2), 10F (1), 10G (1), 10I (1), 10J (1), 10K (1), 10L (1), 10M (1), 10N (1), 10P (1), [42A] (1)	Modified TRICON [43A]. Utility line marking material in [44A]. TRICON Endwall in [45A].
Shower	4A (2) (ISO), 4B (1), 4C (1), 4D (2), 4E (1)	Modified TRICON [43A]. Utility line marking material in [44A]. TRICON Endwall in [45A].
Laundry	2C (1) (ISO), 2A (1), 2B (1)	Modified TRICON [43A]. Utility line marking material in [44A]. TRICON Endwall in [45A].
Billeting	1A(15) [41A] (15)	ASH in [41A]. Utility line marking material in [44A].
ECUs	1B (15), 3B (2), 4C (2), 10E (4), 12E (1), 12C (5)	If required.
MWR	12A (2), 11G (1)	ASH in [41A]. Utility line marking material in [44A].

[Denotes MSCW asset]

**Table 2. Force Provider Deployment Sequence.**

Tasks/ Subsystems	Day		Details/Notes
	Start	Finish	
Site survey	0	2	Survey area, develop/refine Site Plan.
Administration/ Warming Tent	1	2	MSCW only. With 50 Fuel Drum, 60-KW Generator and ASH Heater. Set up, as required, for site preparation personnel.
Site preparation	3	8	Clear land, construct roads, establish drainage, construct culverts, prepare individual sites, construct berms and as required, gravel beds.
400-Gallon tank trailers	3	3	Fill with potable water for consumption by work crew during site preparation.
Stake facility	5	8	Stake equipment and tentage locations IAW site plans.
Stage equipment and containers	5	9	As staked, in accordance with site plan.
Deploy floodlights	1	6	Tripod Floodlights are shipped in TRICON 1B (15), 3B (2), 4C (1), 10E (2), 11D (1). (Ensure power source is available.)
Fuel storage facilities	5	6	Initiate fuel delivery.
Potable Water Distribution	5	9	Position tanks. (MSCW only, erect TEMPER and position tanks). Position facility connection kits.
Latrine	5	6	Non-operational.
MSPG (If used)	5	14	Establish MSPG cluster points.
MSPP (If used)	5	14	Determine generation site and transformer locations.
Administration	5	5	Without ECUs. (MSCW only, with ASH Heaters).
Wastewater Collection	6	7	Set up tanks, mainline and locate facility connection kits. (MSCW only, erect TEMPER and position tanks).
Food Service	7	10	Without ECUs. Connect to Potable Water Distribution and Wastewater Collection. (MSCW only, with ASH Heaters. Set up M-80 in modified TRICON.
Shower		8	Without ECUs. Connect to Potable Water Distribution and Wastewater Collection. (MSCW only, with ASH Heaters. Set up M-80 in modified TRICON.
Laundry	9	9	Without ECUs. Connect to Potable Water Distribution and Wastewater Collection. (MSCW only, with ASH Heaters. Set up M-80 in modified TRICON.)
Billeting		13	Without ECUs.
ECUs	9	14	If used.

**SITE PREPARATION**

When a specific site plan and task list has been completed, the site can be prepared for setting up the FP module. Various materials, tools, and implements to prepare the site are provided in TRICON 11-A. Refer to WP 0032 00 for a detailed listing of items provided. Coordination with supporting engineering units is required to accomplish the common tasks described below to prepare the site.

Perform Grading and Construct Roads. Use the site plan and appropriate field manuals to do this. Consider the following when planning for the preparation of the roads for the FP site.

Type, weight, turning requirements and frequency of use of vehicles expected to use roads. Climatic conditions prevailing at the location, specifically the average rain/snowfall amounts. The types of vehicles that must be accommodated include:

- Wastewater evacuation tank/trailer and prime mover.
- Water delivery truck.
- Fuel delivery truck.
- Tank and pump unit.
- 4,000 lbs and 10,000 lbs rough terrain forklifts.
- Customer unit vehicles.
- Fire fighting and emergency vehicles.

Overall road design considerations should include, as applicable:

- Connection to major supply routes.
- Culvert/road guard requirements.
- Required distances from facilities and other roadways/personnel traffic.
- Climatic conditions.
- Drainage requirements.
- Shoulders.
- Utility crossings (water/wastewater/power).
- Re-supply access to individual FP subsystems.
- Dust control.
- Direction, one-way requirements.
- Noise Abatement.

#### **Drainage and Water Table**

When it is impossible to avoid using valleys and areas with high water table, the water table must be lowered during construction to reduce the adverse effect of water on the strength of the supporting sub-grade and base course.

#### **Culverts**

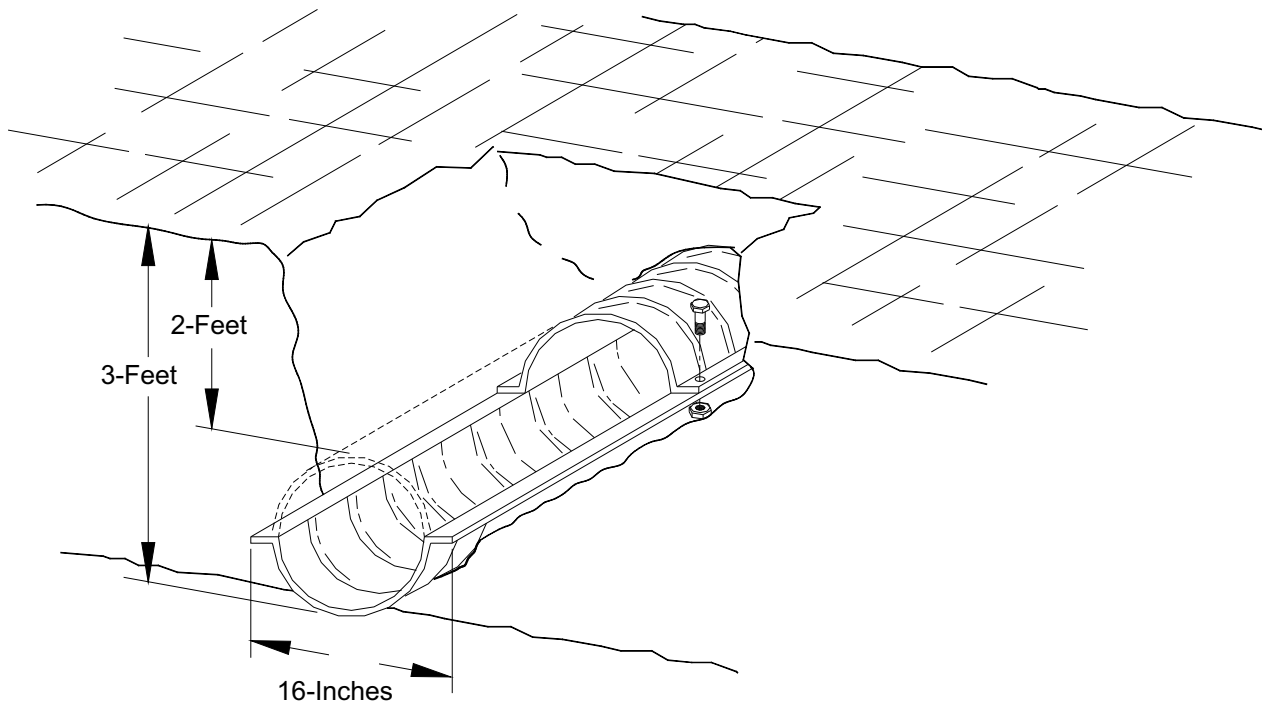
Whenever electrical cables, water, or wastewater lines cross a road, culverts must be employed (Culverts are shipped in TRICON 11-A) using the following procedures:



## WARNING



Potable water hoses, wastewater pipes and hoses, or electrical cables must be placed in separate culverts. Each pipe, hose or cable must not be placed in a culvert that contains a dissimilar pipe, hose, or cable. Failure to observe this warning may result in sickness, injury, or death to personnel from contaminated water supply or electrocution fire.



**Figure 1. Culvert Emplacement.**

1. Dig a trench across the road and extending at least 2 feet on either side of the road. The trench must be at least 3 feet deep (at lowest point of road) and 18 inches wide.

### NOTE

When crossing wide roads it may be necessary to install electrical cables, pipes or hoses in lower culvert half prior to installing upper culvert half and filling trench.

2. Secure culvert halves together to form cylinder and place them in trench with bolted flanges oriented to the sides so that they extend across the entire road width.
3. Fill trench with original material and compact.
4. If required, resurface road where disturbed.

Where TEMPER are to be positioned the following topographical considerations apply: Ground should be as level as possible with a slope not exceeding 2½-inch per 8-foot TEMPER section. Topsoil consisting of sand or gravel is most desirable, as it permits rapid drainage. Marshy sites and soil with large amounts of clay or organic matter are least desirable, and should be avoided whenever possible.

## **SPECIFIC SITE PREPARATION FOR SUBSYSTEMS**

In addition to the site planning considerations, and general site preparation tasks addressed above, the following unique site preparation requirements apply to individual subsystems indicated:

### **Latrine Subsystem**

An area of hardstand approximately 20-foot -square should be prepared adjacent to the service road at each latrine site to accommodate the WWET/T.

### **Water Distribution Subsystem**

Use the following procedures to construct the berms for the 56-foot x 16.5-foot, 20,000-Gallon Fabric Tanks.

1. Clear and level an area 60 feet x 20 feet where required by site plan.
2. Inspect area closely, removing all rocks, twigs, and lumps of dirt, debris, and sharp objects from leveled area.
3. Slope all four sides of leveled area no more than five inches towards center. Overall slope of area should not be more than three degree to prevent tank creep.
4. Dig a small trench from center to edge of cleared area.

### **NOTE**

A 3-foot working clearance is necessary between the berm and the tank.

5. Erect a 4-foot berm around outside of sloped area.
6. Install a berm drain consisting of 2½-inch suction hose with a gate valve through the bottom of the discharge end of the berm.

### **Fuel Storage and Distribution Subsystem**

For 10,000-Gallon Tank berm construction procedures, refer to TM 5-5430-210-12. For 500-Gallon Drum berm construction, proceed as follows:

1. Clear and level an area 10 feet x 10 feet.
2. Inspect area closely, removing all sharp objects from leveled area.
3. Slope all four sides of leveled area no more than 3-inch towards center. Provide a sandy bottom of 4-inch when possible. Overall slope of area should not exceed three degree to prevent tank creep.

### **NOTE**

A 2-foot working clearance is necessary between the berm and the tank.

Erect a 1-foot berm around outside of sloped area MSPG. Each of nine MSPG sites requires a berm for a 500-gallon collapsible fabric fuel drum. Construct berm in accordance with procedures above. Construct a level surface for the placement of the Tactical Quiet Generators (TQGs).

**Wastewater Collection Subsystem**

Use the following procedures to construct the berms for the 56-foot x 16.5-foot, 20,000-Gallon Fabric Tanks.

1. Clear and level an area 60 feet x 20 feet where required by site plan.
2. Inspect area closely, removing all rocks, twigs, and clumps of dirt, debris, and sharp objects from leveled area.
3. Slope all four sides of leveled area no more than five inches towards center. Overall slope of area should not be more than three degree to prevent tank creep.
4. Dig a small trench from center to edge of cleared area.

**Food Service Subsystem**

1. A 24-foot x 24-foot area designated for refrigeration must be completely level to prevent misalignment of floor panels and ability to withstand pressure of 250 pounds per square foot. To allow for ventilation beneath floor panels, a completely level and structurally sound sub-base for refrigerators must be built.
2. A Pit for the grease trap may be prepared during site preparation phase, or later by personnel with hand tools. The grease trap pit must be 5 feet x 3 feet x 2 feet deep.
3. When practical, a 66-foot x 22-foot concrete floor is recommended for the kitchen TEMPER to support the weight of heavy appliances and allow wheeled equipment to be moved.

**Morale, Welfare, Recreation**

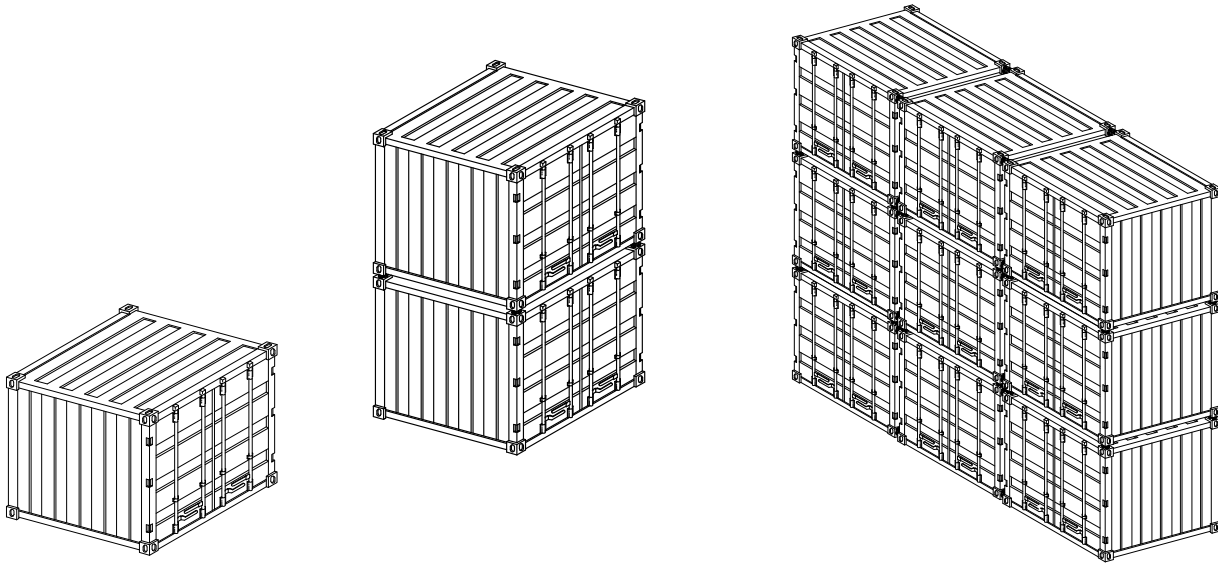
Level, cleared area may be desired for playing fields, and recreational areas. This should be coordinated with site plan/MWR personnel.

**STAKING AND STAGING REQUIREMENTS FOR SUBSYSTEMS**

Perform construction survey on the site to locate key points used to position subsystem components in accordance with the site plan. From key points, perform staking on the prepared site to identify locations of TEMPER and equipment within each subsystem. Once staked, containers and large components are staged onto the site. Container staging locations are not critical, but emplacing equipment close to where it will be needed helps to minimize set up efforts.

## Transportation and Storage Container Subsystem

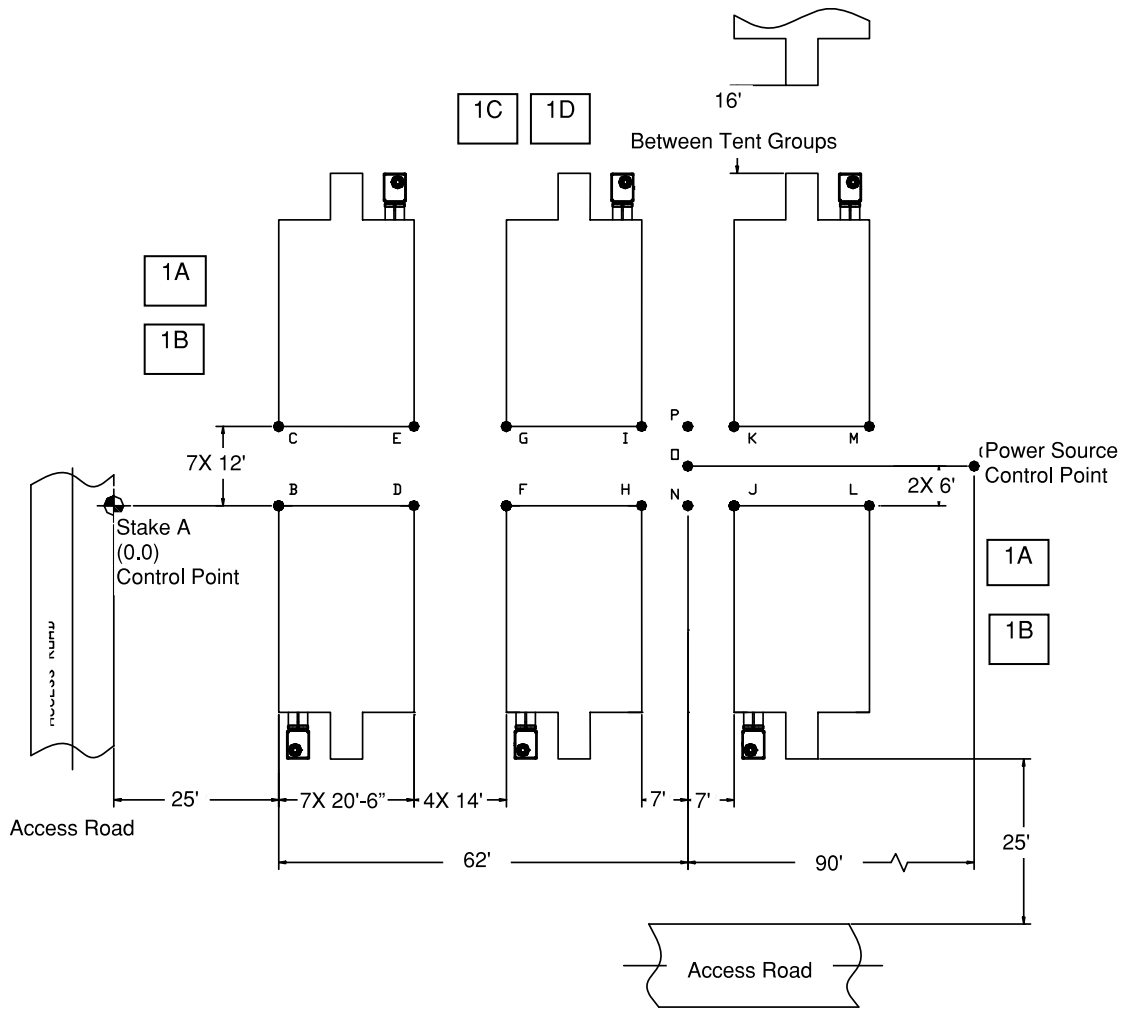
Stage the containers initially as shown in subsystem staking diagrams. After containers are unpacked, and if not needed for storage, they can be collectively placed in a consolidated storage area. TRICON should not be stored stacked on soft ground. They can be stacked two high on hard ground, or three high on level, hard-topped (concrete or asphalt) ground using connector links provided. Local commander must approve three-stack. They must be stacked with container markings clearly visible.



**Figure 2. Transportation and Storage Container Subsystem Staging Diagram.**

**Billeting Subsystem**

Billeting staking diagrams are shown below. Stage containers 1A and 1B for each group as shown. Stage containers 1C and 1D in the center of the billeting area.



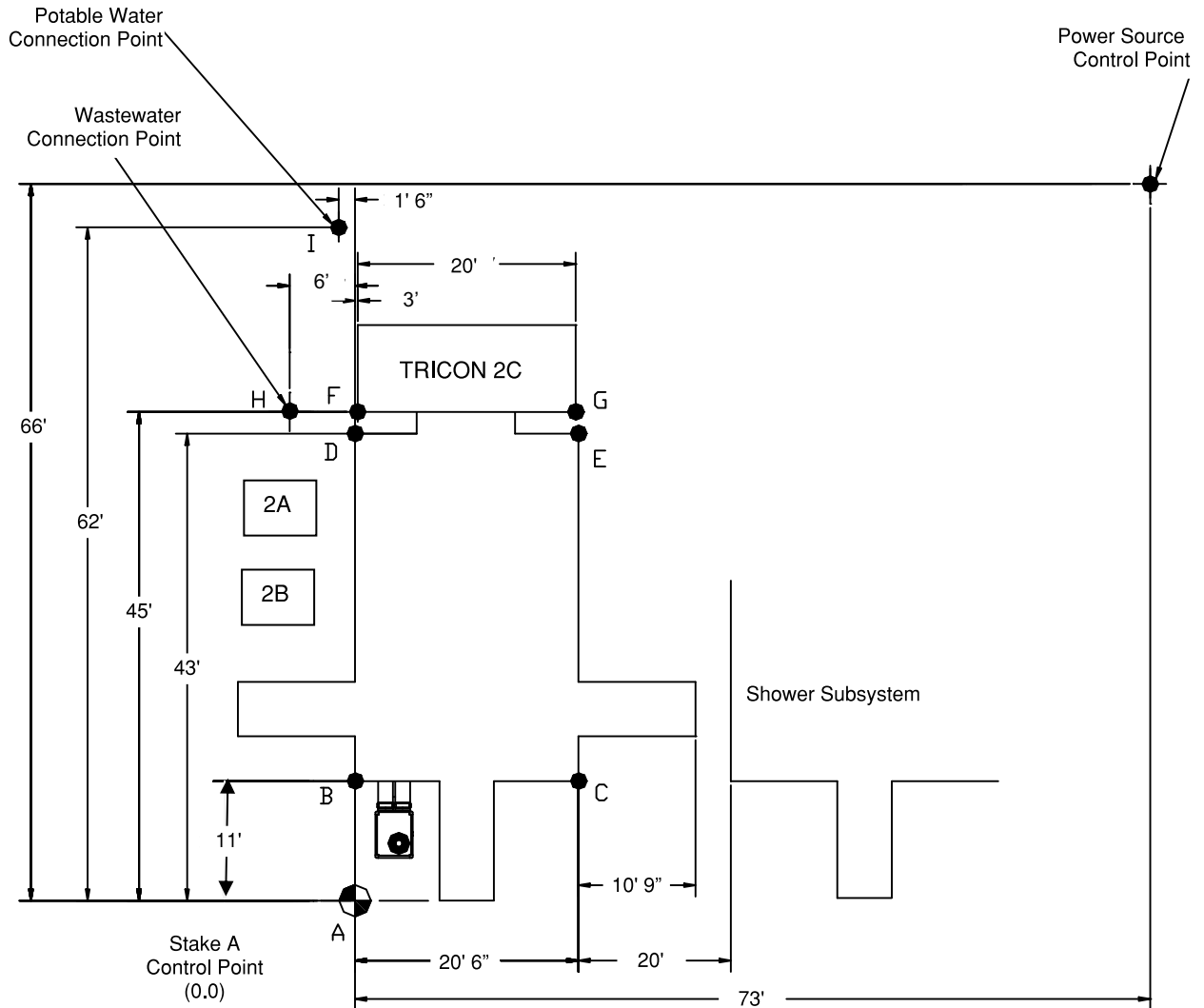
**Figure 3. Billeting Group Staking and Staging Diagram.**

**Containerized Laundry Subsystem**

Stage containers 2A and 2B as shown.

**NOTE**

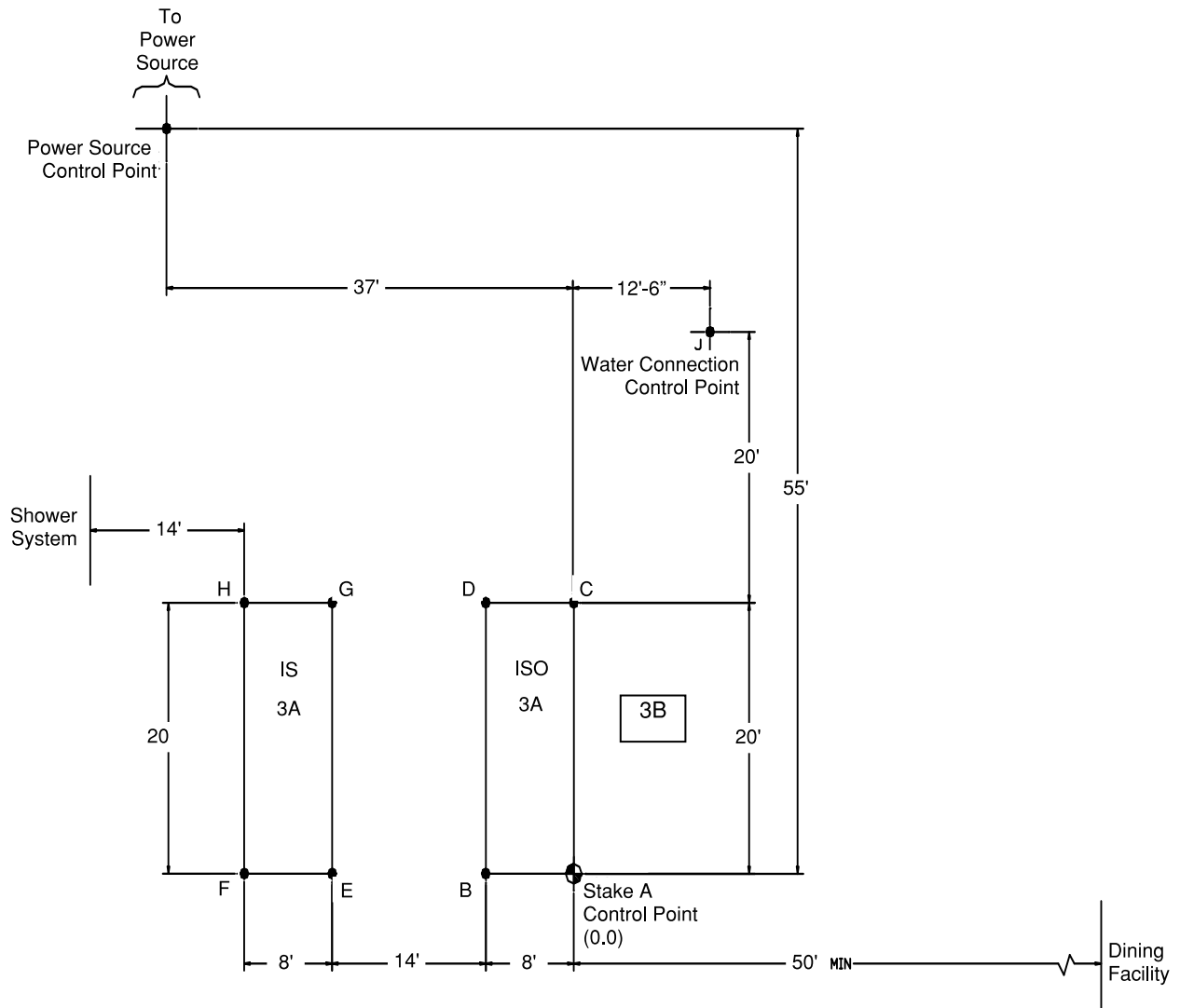
TRICON 2A contains footlockers intended for use with the billeting subsystem.



**Figure 4. Containerized Laundry Subsystem Staking and Staging Diagram.**

**Containerized Latrine Subsystem**

Stage container 3A as shown. (Stage container 3B where designated by host unit)



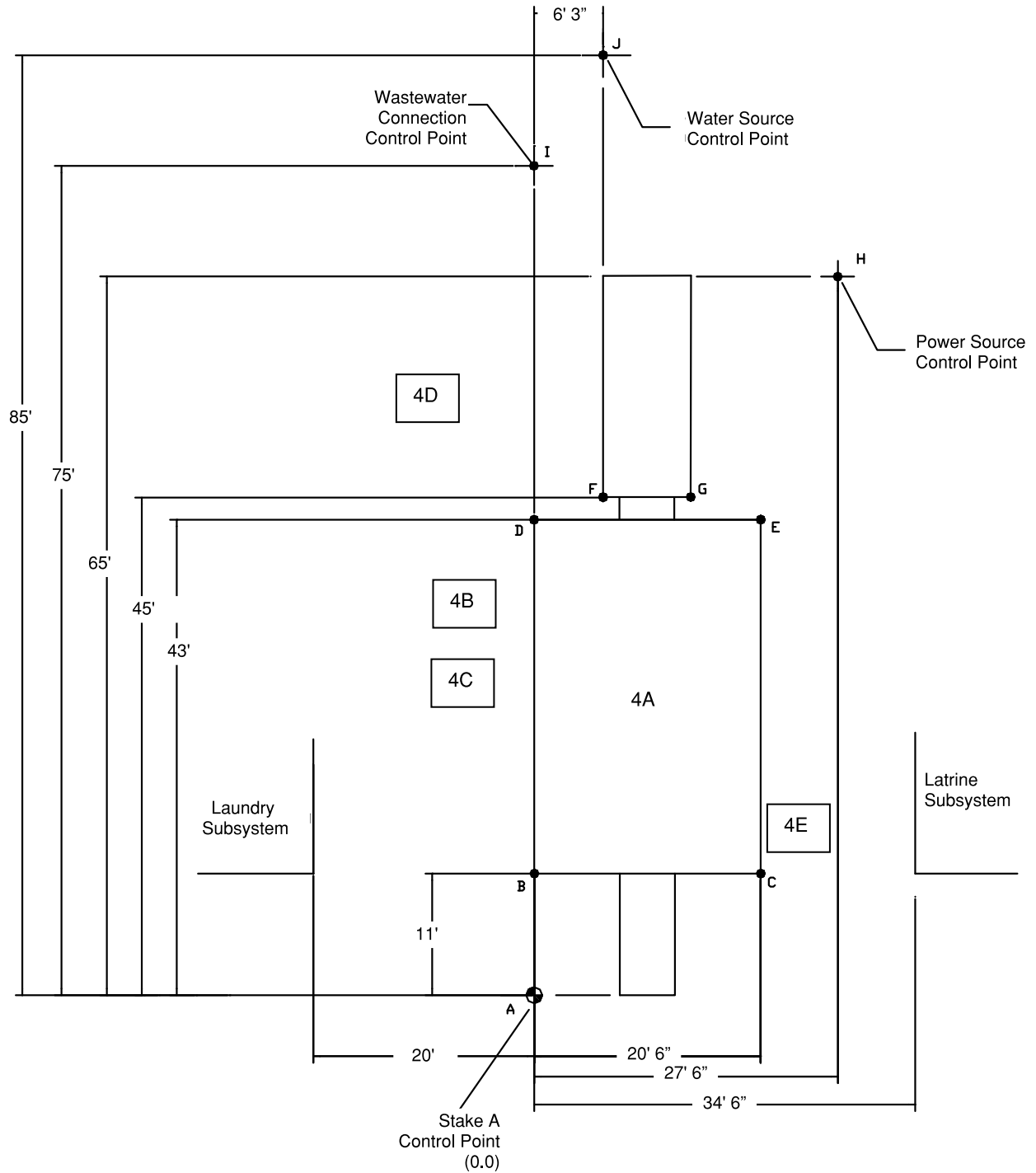
**Figure 5. Containerized Latrine Subsystem Site Staking and Staging Diagram.**

**Shower Subsystem**

Stage containers 4A (ISO), 4B, 4C, 4D (one each per site), and 4E as shown.

**NOTE**

TRICON 4B and 4C contain footlockers intended for use with the billeting subsystem.



**Figure 6. Shower Subsystem Site Staking and Staging Diagram.**



### Potable Water Distribution Subsystem

Stage one container 5A in each site. 5B may be placed in a central staging area.

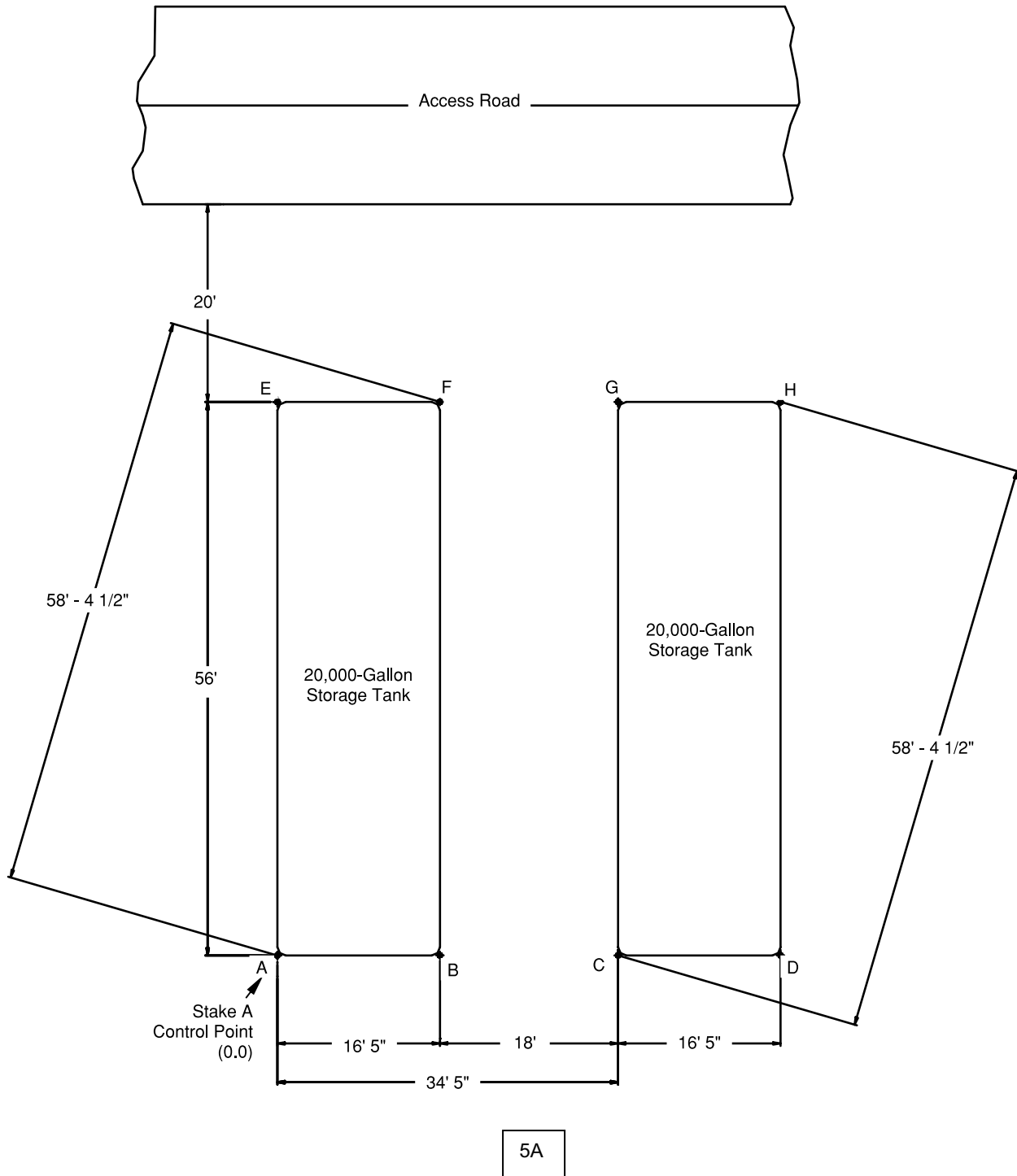
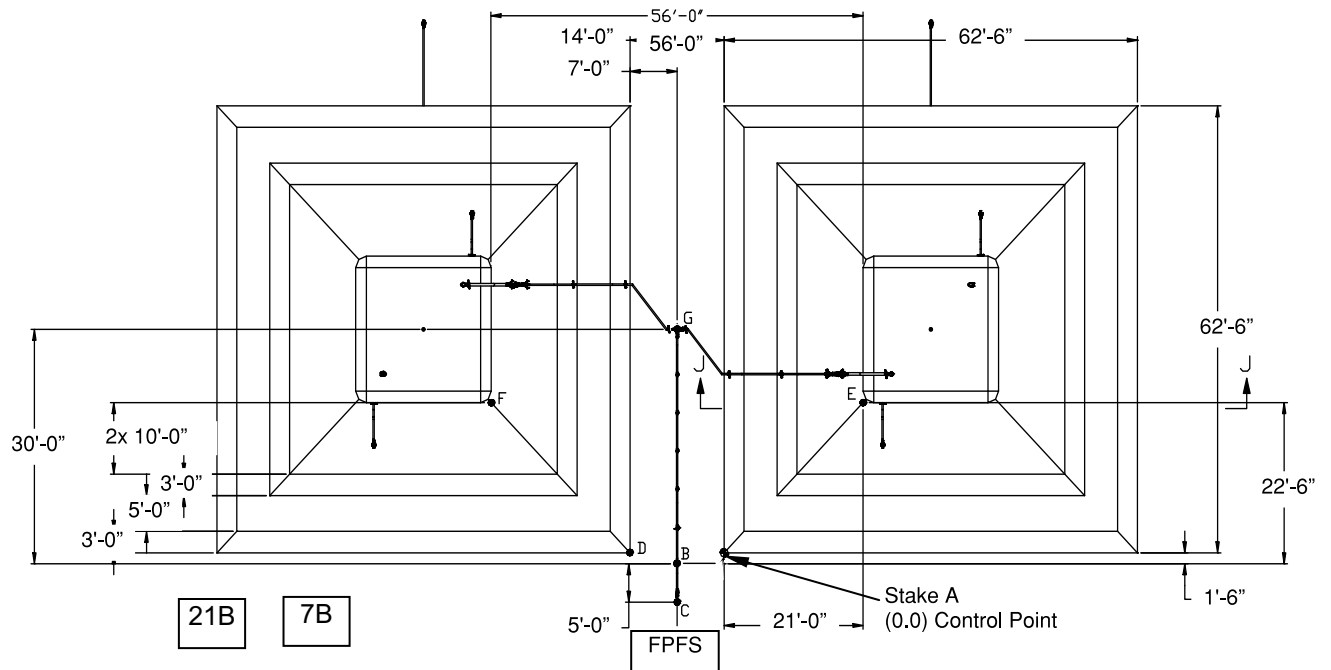


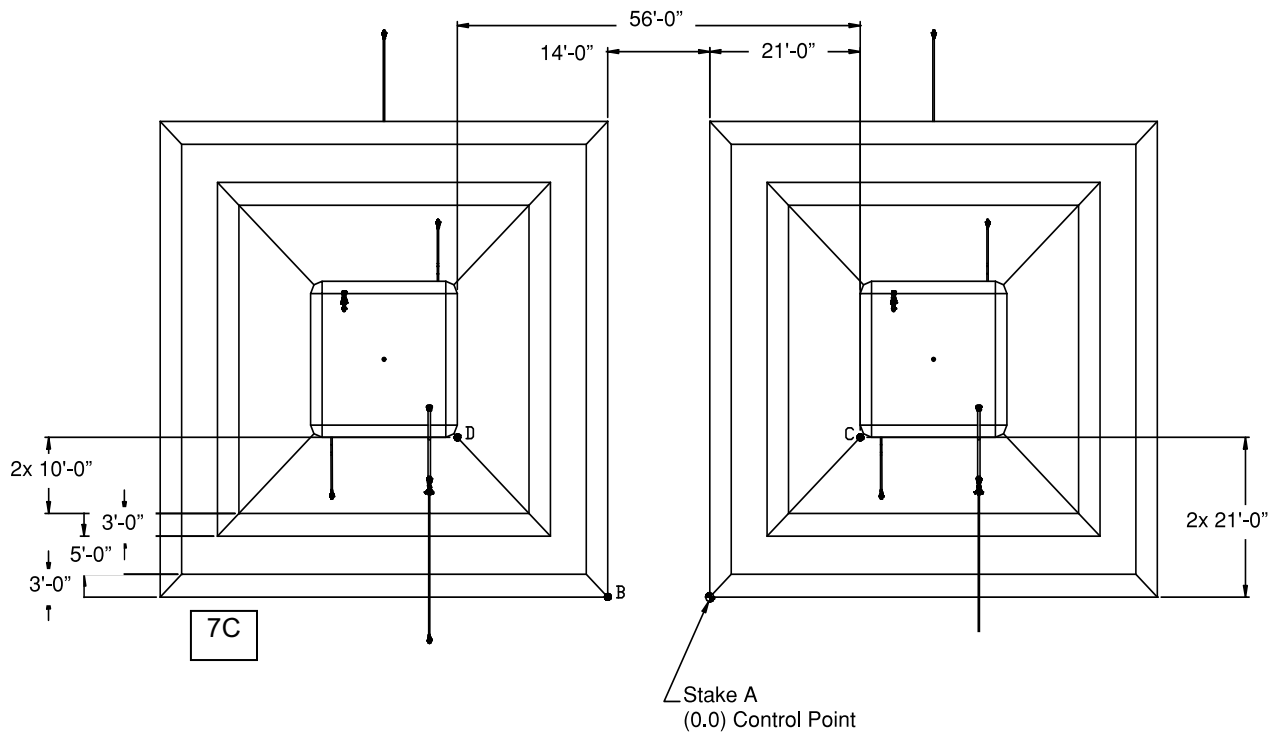
Figure 7. Potable Water Distribution Subsystem Site Staking and Staging Diagram.

**Fuel Storage and Distribution Subsystem**

Stage container 7B as shown. Container 21B is staged only if MSPG is used. Container 7C is staged only if MSPP is used.



Fuel Storage and Distribution Site



Prime Power Fuel Storage/Distribution Site

**Figure 8. Fuel Storage and Distribution Staking and Staging Diagrams.**

### Wastewater Collection Subsystem

Stage containers 8A (ISO), 8B, 8C and 8D as shown.

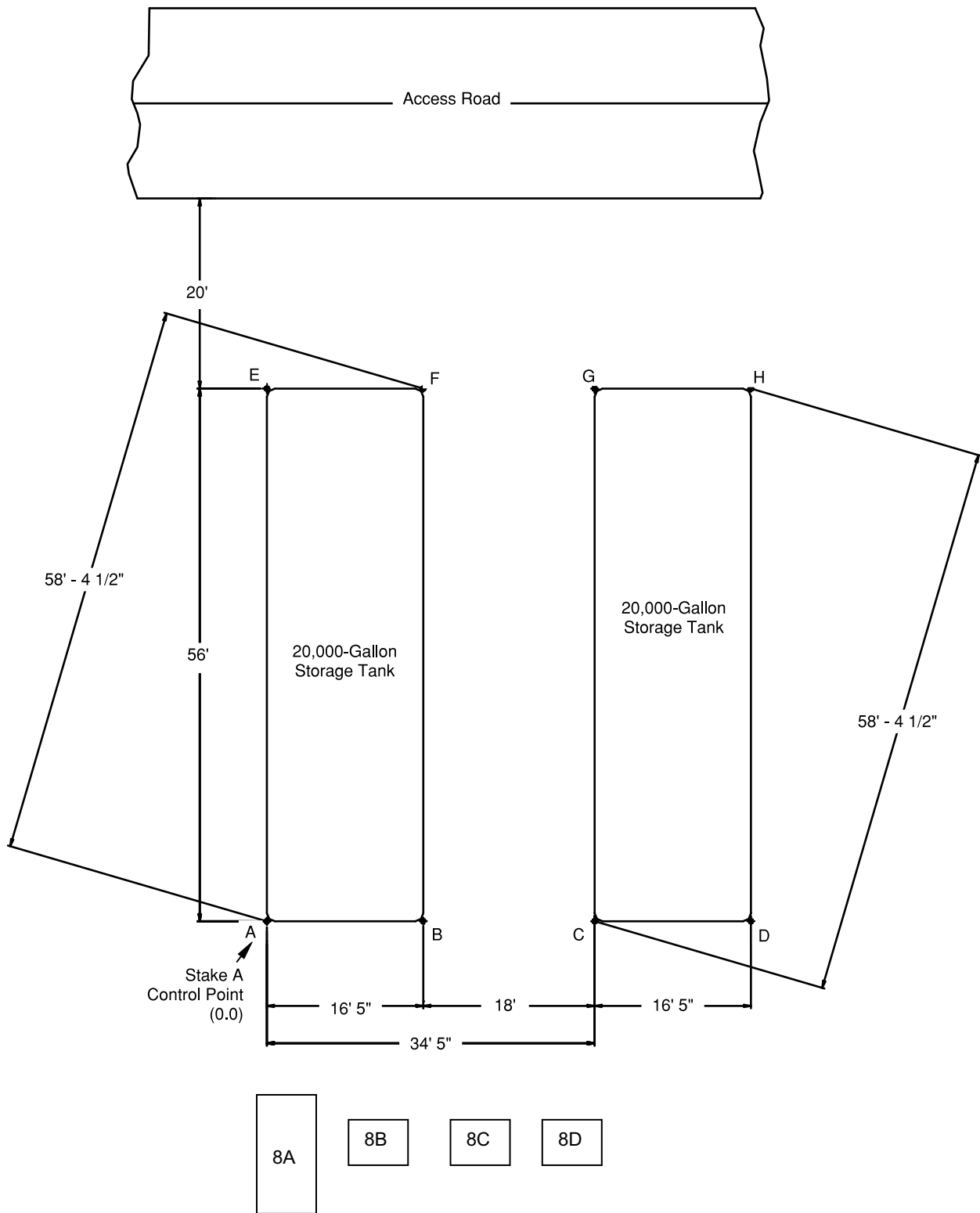


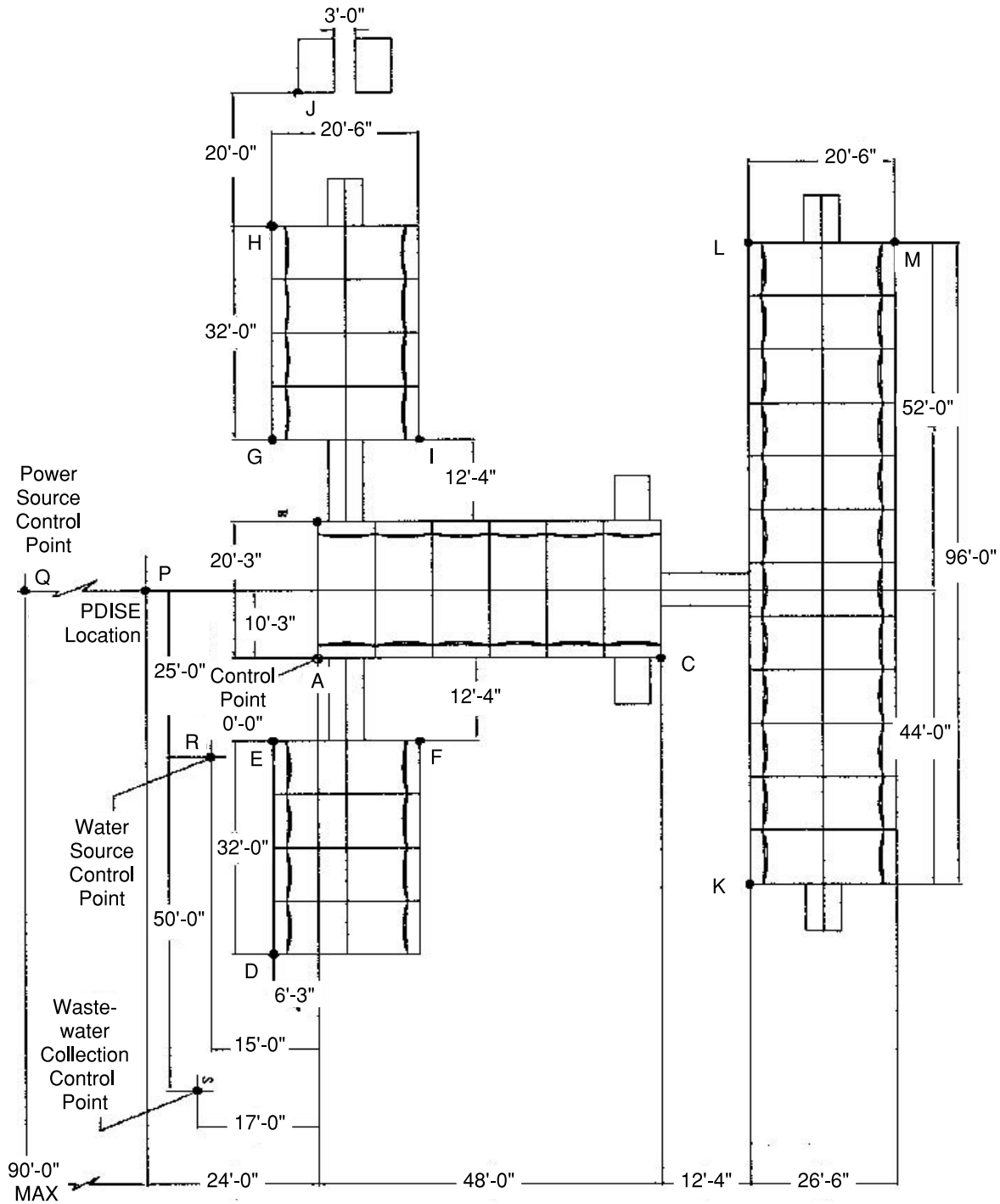
Figure 9. Wastewater Collection Site Staking and Staging Diagram.

**Food Service Subsystem**

Stage the following containers 10A, 10B, 10C, 10D, 10E (2), 10F, 10G, 10H, 10I, 10J, 10K, 10L, 10M, 10P, and 10R as shown.

**NOTE**

TRICON 10E, 10F, 10G, 10K, and 10L contain footlockers intended for use with the billeting subsystem.



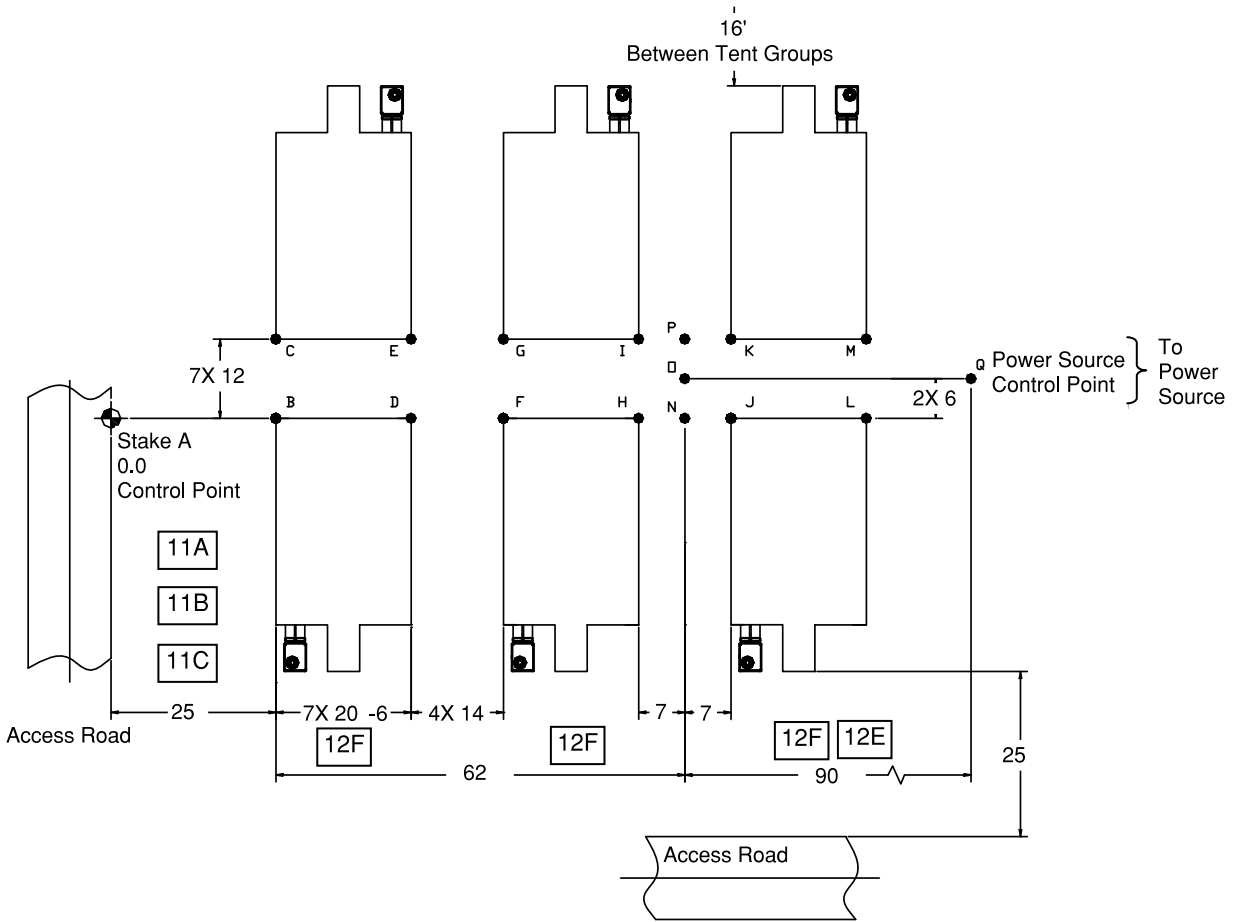
**Figure 10. Food Service Subsystem Staging and Staging Diagram.**

**Administration Subsystem**

Stage containers 11A, 11B, and 11C, Site Preparation and Maintenance as shown. Stage containers 12E, and 12F (3), Administration Subsystem, as shown.

**NOTE**

TRICON 12E and 12F contain footlockers intended for use with the billeting subsystem.



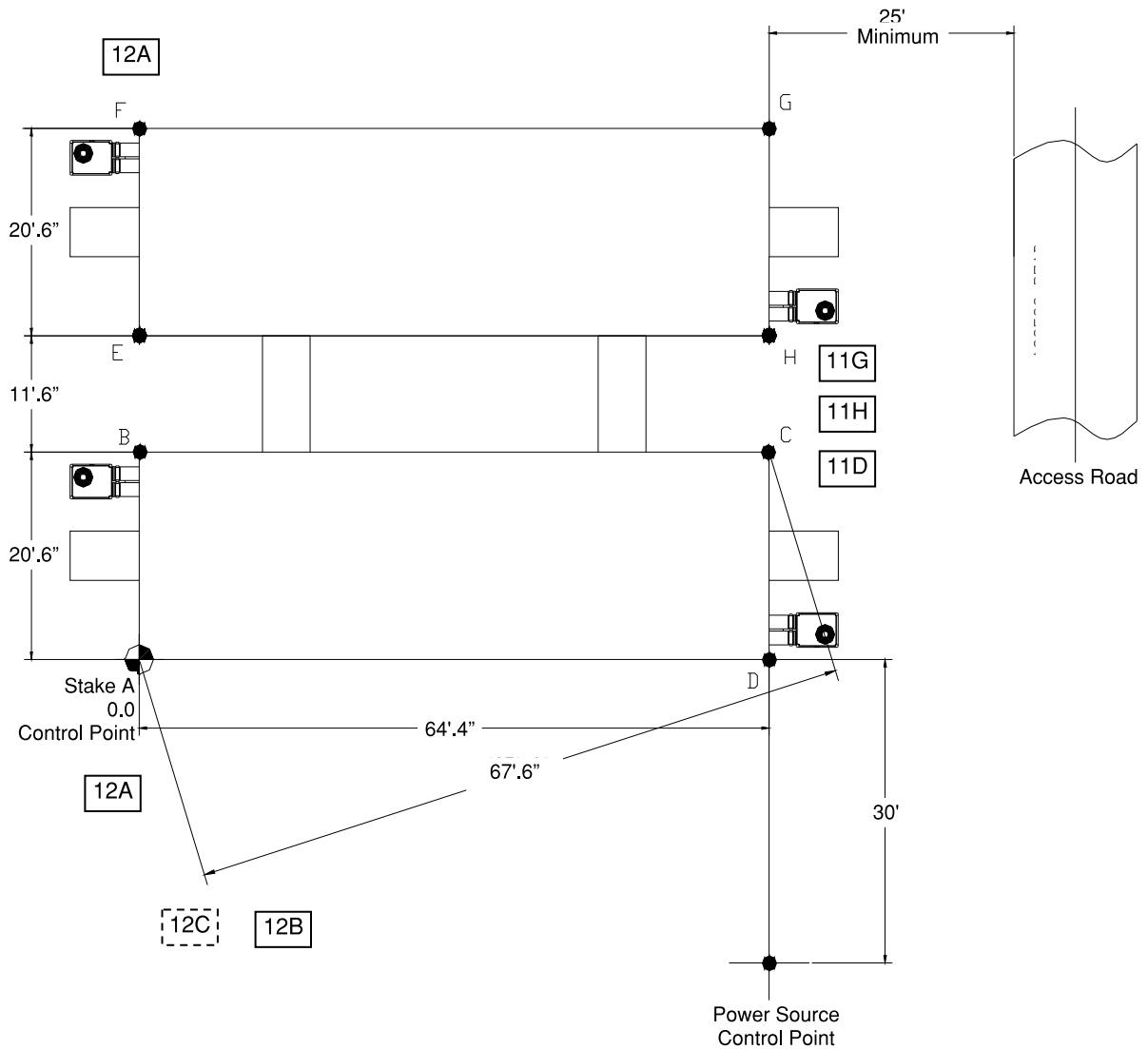
**Figure 11. Administration Subsystem Staking and Staging Diagram.**

**Morale, Welfare, and Recreation Subsystem**

Stage containers 11D, 11G, 11H, 12A (2), and 12B, as shown. TRICON 12C (5) contain the ECU for the MWR and administration subsystems. If ECU are to be installed, stage these TRICON proportionately (each TRICON contains four ECU) in the vicinity of the two subsystems. If ECU will not be installed unpack only non-ECU-related equipment, then stage TRICON in designated, consolidated storage area, leaving the ECU packed inside until needed.

**NOTE**

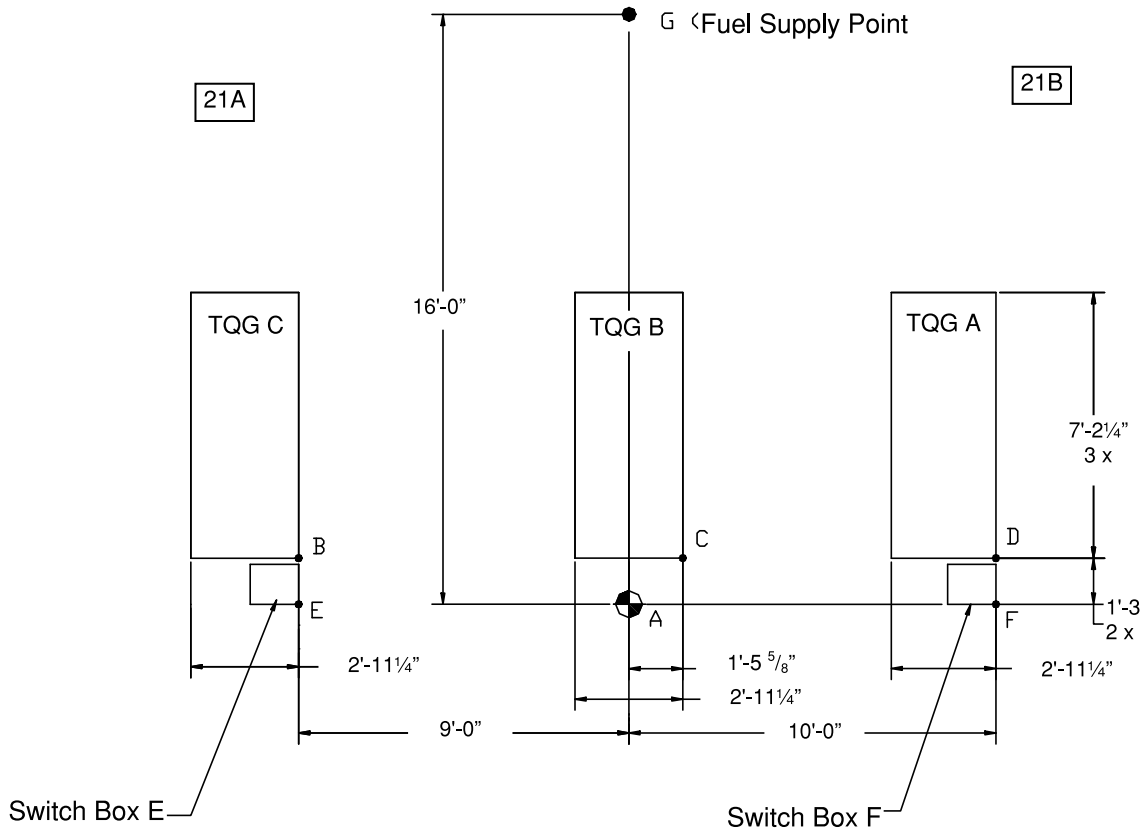
TRICON 12B contains trash cans w/lids intended for use with the billeting subsystem. TRICON 12A and 12C contain footlockers intended for use with the billeting subsystem.



**Figure 12. MWR Subsystem Staking and Staging Diagram.**

**Modification System (Power Generation)**

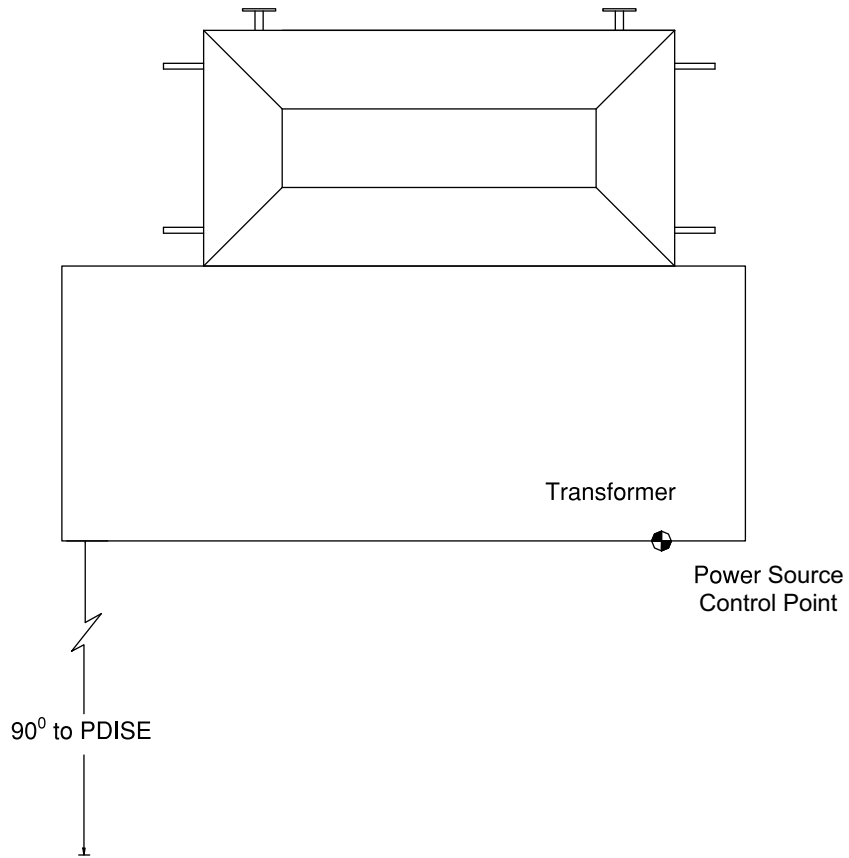
Stage containers 21A, the generator support kit, and 21B, the system support kit, near one of the eight generator sets as shown.



**Figure 13. Modification System Power Generation Staking and Staging Diagram.**

**Modification System (Prime Power)**

Stage one container 31A, the transformer kit, in the vicinity of each transformer but not where it would interfere with operations. Stage container 31C, the transformer connector kit, in a central, accessible location. Containers 32A and 32B, the cable kits, should be placed into the consolidated TRICON storage area after unpacking.



**Figure 14. Modification System Power Generation Staking and Staging Diagram.**



**Modification System Cold Weather**

There is no staking plan specific to MSCW. Refer to WP 0038 00 for a description of modifications for each subsystem when the MSCW is used.

**Site Preparation Equipment**

Refer to WP 0032 00 for a detailed description and illustrations of the tools, implements and materials provided specifically for site preparation tasks.

**Table 3. Force Provider Module and Modification System Cold Weather Data Summary.**

Subsystem	Area Sq Feet*	Capacity	Power (kW)	Potable Water (Gal/day)	Graywater (Gal/day)	Blackwater (Gal/day)	Diesel (Gal/day)
Transportation Storage	N/A	54,956.60-ft <sup>3</sup>	N/A	N/A	N/A	N/A	N/A
	N/A#	65,289.10-ft <sup>3</sup>	N/A	N/A	N/A	N/A	N/A
Billeting	40,500	660 Per	378	N/A	N/A	N/A	N/A
	36,000	660 Per	228	N/A	N/A	N/A	384
Laundry	5,000	200 lbs/hr	100	5,200	5,200	N/A	60
	5,000	200 lbs/hr	100	5,200	5,200	N/A	72
Latrine	13,060	300 Per Site	80	3,000	N/A	3,780	40
	13,060	300 Per Site	80	3,000	N/A	3,780	64
Shower	13,940	275 Per Site	55	11,000	11,000	N/A	120
	13,940	275 Per Site	55	11,000	11,000	N/A	164
Potable Water Distribution	26,120	80,000 Gal	6	N/A	N/A	N/A	N/A
	12,000	80,000 Gal	20	N/A	N/A	N/A	48
Fuel Storage Distribution	10,000	20,000 Gal	N/A	N/A	N/A	N/A	N/A
	10,000	20,000 Gal	N/A	N/A	N/A	N/A	N/A
Wastewater Collection	10,000	40,000 Gal	1.5	N/A	N/A	N/A	6
	10,000	40,000 Gal	17	N/A	N/A	N/A	49
Food Service	28,000	1,980 meals	120	1,925	1,375	N/A	60
	27,420	1,980 meals	120	1,925	1,375	N/A	144
Site Prep Maintenance	N/A	N/A	2.5	N/A	N/A	N/A	N/A
	N/A	N/A	2.5	N/A	N/A	N/A	N/A
Administration	20,000	7 TEMPER	84	N/A	N/A	N/A	N/A
	17,920	7 TEMPER	84	N/A	N/A	N/A	84
MWR	10,000	3 TEMPER	36	N/A	N/A	N/A	N/A
	5,000	2 TEMPER	36	N/A	N/A	N/A	36
Floodlight	2,500	72,000W	72	N/A	N/A	N/A	N/A
	2,500	72,000W	72	N/A	N/A	N/A	N/A
SYSTEM TOTAL	179,120	N/A	935	21,125	17,575	3,780	280
	152,840	N/A	814.5	21,125	17,575	3,780	1,050

**Table 4. Force Provider Modification Systems (Power Generation/Prime Power) Data Summary.**

Subsystem	Area Sq Feet*	Capacity	Power (kW)	Potable Water (Gal/day)	Graywater (Gal/day)	Blackwater (Gal/day)	Diesel (Gal/day)
Power Generation	11,760	1,080kW	N/A	N/A	N/A	N/A	2,186
	7,840#	720kW	N/A	N/A	N/A	N/A	1,457
Prime Power	12,000	750kVA	N/A	N/A	N/A	N/A	3,000-4,500
	12,000	750kVA	N/A	N/A	N/A	N/A	3,000-4,500

- Includes separation between subsystems. #Lower row indicates MSCW values.

**END OF WORK PACKAGE**



**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS –  
TRANSPORTATION AND STORAGE CONTAINER SUBSYSTEM**

**GENERAL**

This WP contains operating and storage procedures for the FP transportation and storage container subsystem.

Before staging the TRICON and ISO containers into the various subsystems areas, the FP module site selection, planning, preparation, and staking of the subsystem areas must be completed.

Upon initial shipment transportation and storage containers are placed in the appropriate subsystem areas (Refer to Table 2, Shipping and Storage Container Summary). After subsystem equipment is assembled and set up, some containers can be left in the area to support storage functions. Otherwise, containers not required during FP operations should be placed in a consolidated storage area.

**SCOPE**

Preparation for unpacking and use of the transportation and storage containers consists of the following:

- Initial staging of the containers in the designated subsystem areas (Refer to WP 0022 00).
- Unpacking and inventory of container content.
- Returning packing materials and dunnage to containers.
- Determining need for storage requirements during FP operation.
- Place containers required during operation for storage into position.
- Determine re-inspection dates for each TRICON.
- Placing unneeded containers in a consolidated storage area.
- Performing preventive and corrective maintenance procedures.

**UNPACKING AND INVENTORY**

Unpack and inventory subsystem components using the inventory lists found in WP 0024 00 through WP 0038 00, or the packing lists found on the inside of container doors.

When opening containers and during unpacking, notice any damage to the container. Describe damage on DA Form 2404. Provide form to the Force Provider Company Maintenance Section and place a copy into the pocket inside the container door.

After unpacking containers, return and keep the following dunnage and packing materials in the quantities found for future use when repacking the equipment:

**Table 1. Dunnage and Packing Materials.**

ITEM	NSN / PN
Special Purpose Web Tiedown	3990-01-204-3009
Shoring Beam	9540-01-491-3804
Connecting Link, Rigid	3040-01-387-4048
Shelf, Shipping and Storage	8145-01-503-4404
Reusable Packing Container Covers	9-1-0758-1 through -4
Braces (Lumber) (2X6X75¾)	9-1-0771-1

Table 1. Dunnage and Packing Materials – Continued.

ITEM	NSN / PN
Container, Reusable, Bulk Equipment, Half Size, General Purpose	9-1-0140-1
Container, Reusable, Bulk Equipment, Half Size	9-1-0140-2
Container, Reusable, Bulk Equipment, Commercial	9-1-0141-1
Container, Reusable, Bulk Equipment, Small	9-1-0142-1
Container, Reusable, Bulk Equipment, Medium	9-1-0142-2

Table 2. Shipping and Storage Container Summary.

CONT NO.	CONTENTS	TYPE	NO. IN GROUP	NO. IN MODULE	SUBSYSTEM	L	W	H	CUBE	WEIGHT	HAZMAT
01A-1	Billeting Tent Kit	TRICON	1 of 15	1 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-2	Billeting Tent Kit	TRICON	2 of 15	2 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-3	Billeting Tent Kit	TRICON	3 of 15	3 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-4	Billeting Tent Kit	TRICON	4 of 15	4 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-5	Billeting Tent Kit	TRICON	5 of 15	5 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-6	Billeting Tent Kit	TRICON	6 of 15	6 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-7	Billeting Tent Kit	TRICON	7 of 15	7 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-8	Billeting Tent Kit	TRICON	8 of 15	8 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-9	Billeting Tent Kit	TRICON	9 of 15	9 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-10	Billeting Tent Kit	TRICON	10 of 15	10 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-11	Billeting Tent Kit	TRICON	11 of 15	11 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-12	Billeting Tent Kit	TRICON	12 of 15	12 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-13	Billeting Tent Kit	TRICON	13 of 15	13 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-14	Billeting Tent Kit	TRICON	14 of 15	14 of 96	Billeting	77.5	96	96	413.33	7950	YES
01A-15	Billeting Tent Kit	TRICON	15 of 15	15 of 96	Billeting	77.5	96	96	413.33	7950	YES
01B-1	Billeting ECU Kit	TRICON	1 of 15	16 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-2	Billeting ECU Kit	TRICON	2 of 15	17 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-3	Billeting ECU Kit	TRICON	3 of 15	18 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-4	Billeting ECU Kit	TRICON	4 of 15	19 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-5	Billeting ECU Kit	TRICON	5 of 15	20 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-6	Billeting ECU Kit	TRICON	6 of 15	21 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-7	Billeting ECU Kit	TRICON	7 of 15	22 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-8	Billeting ECU Kit	TRICON	8 of 15	23 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-9	Billeting ECU Kit	TRICON	9 of 15	24 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-10	Billeting ECU Kit	TRICON	10 of 15	25 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-11	Billeting ECU Kit	TRICON	11 of 15	26 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-12	Billeting ECU Kit	TRICON	12 of 15	27 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-13	Billeting ECU Kit	TRICON	13 of 15	28 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-14	Billeting ECU Kit	TRICON	14 of 15	29 of 96	Billeting	77.5	96	96	413.33	5450	YES
01B-15	Billeting ECU Kit	TRICON	15 of 15	30 of 96	Billeting	77.5	96	96	413.33	5450	YES
01C-1	Billeting Footlocker	TRICON	1 of 1	31 of 96	Billeting	77.5	96	96	413.33	4260	NO
01D-1	Billeting Bunk Bed Kit	TRICON	1 of 1	32 of 96	Billeting	77.5	96	96	413.33	9110	NO
02A-1	Laundry Tent Kit	TRICON	1 of 1	33 of 96	Laundry	77.5	96	96	413.33	5850	YES
02B-1	Laundry Kit	TRICON	1 of 1	34 of 96	Laundry	77.5	96	96	413.33	4250	NO
02C-1	CBL	ISO	1 of 1	35 of 96	Laundry	240	96	96	1,280.00	13530	NO
03A-1	CLS	ISO	1 of 4	36 of 96	Latrine	240	96	96	1,280.00	9900	YES
03A-2	CLS	ISO	2 of 4	37 of 96	Latrine	240	96	96	1,280.00	9900	YES
03A-3	CLS	ISO	3 of 4	38 of 96	Latrine	240	96	96	1,280.00	9900	YES
03A-4	CLS	ISO	4 of 4	39 of 96	Latrine	240	96	96	1,280.00	9900	YES
03B-1	Latrine ECU Kit	TRICON	1 of 2	40 of 96	Latrine	77.5	96	96	413.33	5260	YES
03B-2	Latrine ECU Kit	TRICON	2 of 2	41 of 96	Latrine	77.5	96	96	413.33	5260	YES
04A-1	CSS	ISO	1 of 2	42 of 96	Shower	240	96	96	1,280.00	9500	YES
04A-2	CSS	ISO	2 of 2	43 of 96	Shower	240	96	96	1,280.00	9500	YES
04B-1	Shower Tent Kit	TRICON	1 of 1	44 of 96	Shower	77.5	96	96	413.33	7120	NO
04C-1	Shower ECU Kit	TRICON	1 of 1	45 of 96	Shower	77.5	96	96	413.33	5420	YES
04D-1	Shower Support Kit Part A	TRICON	1 of 2	46 of 96	Shower	77.5	96	96	413.33	4160	NO
04D-2	Shower Support Kit Part A	TRICON	2 of 2	47 of 96	Shower	77.5	96	96	413.33	4160	NO
04E-1	Shower Kit Part B	TRICON	1 of 1	48 of 96	Shower	77.5	96	96	413.33	3990	NO
05A-1	Water Distribution System	TRICON	1 of 2	49 of 96	Water Distribution	77.5	96	96	413.33	7470	NO

**Table 2. Shipping and Storage Container Summary – Continued.**

05A-2	Water Distribution System	TRICON	2 of 2	50 of 96	Water Distribution	77.5	96	96	413.33	7470	NO
05B-1	WDS Accessory Kit	TRICON	1 of 1	51 of 96	Water Distribution	77.5	96	96	413.33	5130	NO
07B-1	Fuel Distribution Kit	TRICON	1 of 1	52 of 96	Fuel Distribution	77.5	96	96	413.33	5390	YES
07C-1	Prime Power Fuel Kit	TRICON	1 of 1	53 of 96	Fuel Distribution	77.5	96	96	413.33	5420	YES
08A-1	Waste Water Main Line Kit	ISO	1 of 1	54 of 96	W/Water Collection	240	96	96	1,280.00	12320	NO
08B-1	Waste Water Pump & Facility Kit	TRICON	1 of 1	55 of 96	W/Water Collection	77.5	96	96	413.33	5950	NO
08C-1	Waste Water Tank Kit	TRICON	1 of 1	56 of 96	W/Water Collection	77.5	96	96	413.33	5570	NO
08D-1	Waste Water Accessories	TRICON	1 of 1	57 of 96	W/Water Collection	77.5	96	96	413.33	5570	No
10A-1	Refrigeration Kit, Part A	ISO	1 of 1	58 of 96	Food Service	240	96	96	1,280.00	10020	No
10B-1	Kitchen Kit, Part A	TRICON	1 of 1	59 of 96	Food Service	77.5	96	96	413.33	6300	Yes
10C-1	Sanitation Kit	TRICON	1 of 1	60 of 96	Food Service	77.5	96	96	413.33	4570	Yes
10D-1	Food Service Water Distribution Kit	TRICON	1 of 1	61 of 96	Food Service	77.5	96	96	413.33	5420	No
10E-1	Food Service ECU Kit	TRICON	1 of 2	62 of 96	Food Service	77.5	96	96	413.33	5340	No
10E-2	Food Service ECU Kit	TRICON	2 of 2	63 of 96	Food Service	77.5	96	96	413.33	5340	No
10F-1	Dining Tent Kit Part A	TRICON	1 of 1	64 of 96	Food Service	77.5	96	96	413.33	7180	Yes
10G-1	Dining Tent Kit Part B	TRICON	1 of 1	65 of 96	Food Service	77.5	96	96	413.33	6580	No
10I-1	Refrigeration Kit, Part B	TRICON	1 of 1	66 of 96	Food Service	77.5	96	96	413.33	5530	Yes
10J-1	Waste Water System Kit	TRICON	1 of 1	67 of 96	Food Service	77.5	96	96	413.33	4660	No
10K-1	Food Sanitation/Preparation Tent Kit	TRICON	1 of 1	68 of 96	Food Service	77.5	96	96	413.33	6710	No
10L-1	Kitchen Tent Kit	TRICON	1 of 1	69 of 96	Food Service	77.5	96	96	413.33	6650	No
10M-1	Kitchen Kit, Part B	TRICON	1 of 1	70 of 96	Food Service	77.5	96	96	413.33	4440	No
10N-1	Kitchen Kit, Part C	TRICON	1 of 1	71 of 96	Food Service	77.5	96	96	413.33	5050	No
10P-1	Kitchen Kit, Part D	TRICON	1 of 1	72 of 96	Food Service	77.5	96	96	413.33	4270	No
11A-1	Site Prep / Maintenance Kit	TRICON	1 of 1	73 of 96	Site Preparation	77.5	96	96	413.33	7440	No
11B-1	System Support Kit, Part A	TRICON	1 of 1	74 of 96	ADMIN	77.5	96	96	413.33	7410	No
11C-1	System Support Kit, Part B	TRICON	1 of 1	75 of 96	ADMIN	77.5	96	96	413.33	8950	No
11D-1	MWR Kit, Part A	ISO	1 of 1	76 of 96	MWR	240	96	96	1,280.00	8510	No
11G-1	MWR Kit, Part B	TRICON	1 of 1	77 of 96	MWR	77.5	96	96	413.33	4360	Yes
11H-1	MWR Kit, Part C	TRICON	1 of 1	78 of 96	MWR	77.5	96	96	413.33	9740	No
12A-1	MWR tent kit	TRICON	1 of 2	79 of 96	MWR	77.5	96	96	413.33	6760	Yes
12A-2	MWR tent kit	TRICON	2 of 2	80 of 96	MWR	77.5	96	96	413.33	6760	Yes
12B-1	MWR/Admin Support Kit	TRICON	1 of 1	81 of 96	MWR/ADMIN	77.5	96	96	413.33	5930	No
12C-1	MWR/Admin ECU Kit	TRICON	1 of 5	82 of 96	MWR/ADMIN	77.5	96	96	413.33	5330	No
12C-2	MWR/Admin ECU Kit	TRICON	2 of 5	83 of 96	MWR/ADMIN	77.5	96	96	413.33	5330	No
12C-3	MWR/Admin ECU Kit	TRICON	3 of 5	84 of 96	MWR/ADMIN	77.5	96	96	413.33	5330	No
12C-4	MWR/Admin ECU Kit	TRICON	4 of 5	85 of 96	MWR/ADMIN	77.5	96	96	413.33	5330	No
12C-5	MWR/Admin ECU Kit	TRICON	5 of 5	86 of 96	MWR/ADMIN	77.5	96	96	413.33	5330	No
12E-1	Admin/MWR ECU Kit	TRICON	1 of 1	87 of 96	ADMIN/MWR	77.5	96	96	413.33	4890	No
12F-1	Administration Tent	TRICON	1 of 3	88 of 96	ADMIN	77.5	96	96	413.33	7130	Yes
12F-2	Administration Tent	TRICON	2 of 3	89 of 96	ADMIN	77.5	96	96	413.33	7130	Yes
12F-3	Administration Tent	TRICON	3 of 3	90 of 96	ADMIN	77.5	96	96	413.33	7130	Yes
TTW-1	Water Trailer	TTW	1 of 4	91 of 96	Water Distribution	162	80.5	72	543.38	2800	No
TTW-2	Water Trailer	TTW	2 of 4	92 of 96	Water Distribution	162	80.5	72	543.38	2800	No
TTW-3	Water Trailer	TTW	3 of 4	93 of 96	Water Distribution	162	80.5	72	543.38	2800	No
TTW-4	Water Trailer	TTW	4 of 4	94 of 96	Water Distribution	162	80.5	72	543.38	2800	No
WWT-1	WWET/T	WWET	1 of 2	95 of 96	Latrine	206.5	90	108	1,161.56	5760	No
WWT-2	WWET/T	WWET	2 of 2	96 of 96	Latrine	206.5	90	108	1,161.56	5760	No

**Table 3. Shipping and Storage Container Summary MSPG.**

CONT NO.	CONTENTS	TYPE	NO. IN GROUP	NO. IN MODULE	SUBSYSTEM	L	W	H	CUBE	WEIGHT	HAZMAT
21A	Generator Support Kit	TRICON	1 of 1	1 of 26	MSPG	77.5	96	96	413.33	8880	Yes
21B	System Support Kit	TRICON	1 of 1	2 of 26	MSPG	77.5	96	96	413.33	7812	No
GEN	Skid Mounted Generator	N/A	1 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	2 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	3 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	4 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	5 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	6 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	7 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	8 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	9 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	10 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	11 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	12 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	13 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	14 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	15 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	16 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	17 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	18 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	19 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	10 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	21 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	22 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	23 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No
GEN	Skid Mounted Generator	N/A	24 of 24	3 of 26	MSPG	86.4	36	72	129.60	4240	No

**Table 4. Shipping and Storage Container Summary MSPP.**

CONT NO.	CONTENTS	TYPE	NO. IN GROUP	NO. IN MODULE	SUBSYSTEM	L	W	H	CUBE	WEIGHT	HAZMAT
31A-1	Transformer Kit	TRICON	1 of 9	1 of 12	MSPP	77.5	96	96	413.33	5268	No
31A-2	Transformer Kit	TRICON	2 of 9	2 of 12	MSPP	77.5	96	96	413.33	5268	No
31A-3	Transformer Kit	TRICON	3 of 9	3 of 12	MSPP	77.5	96	96	413.33	5268	No
31A-4	Transformer Kit	TRICON	4 of 9	4 of 12	MSPP	77.5	96	96	413.33	5268	No
31A-5	Transformer Kit	TRICON	5 of 9	5 of 12	MSPP	77.5	96	96	413.33	5268	No
31A-6	Transformer Kit	TRICON	6 of 9	6 of 12	MSPP	77.5	96	96	413.33	5268	No
31A-7	Transformer Kit	TRICON	7 of 9	7 of 12	MSPP	77.5	96	96	413.33	5268	No
31A-8	Transformer Kit	TRICON	8 of 9	8 of 12	MSPP	77.5	96	96	413.33	5268	No
31A-9	Transformer Kit	TRICON	9 of 9	9 of 12	MSPP	77.5	96	96	413.33	5268	No
31C-1	Transformer/ Connector Kit	TRICON	1 of 1	10 of 12	MSPP	77.5	96	96	413.33	5754	Yes
32A-1	Cable, Part A	TRICON	1 of 1	11 of 12	MSPP	77.5	96	96	413.33	7575	No
32B-1	Cable, Part B	TRICON	1 of 1	12 of 12	MSPP	77.5	96	96	413.33	10018	No

**Table 5. Shipping and Storage Container Summary MSCW.**

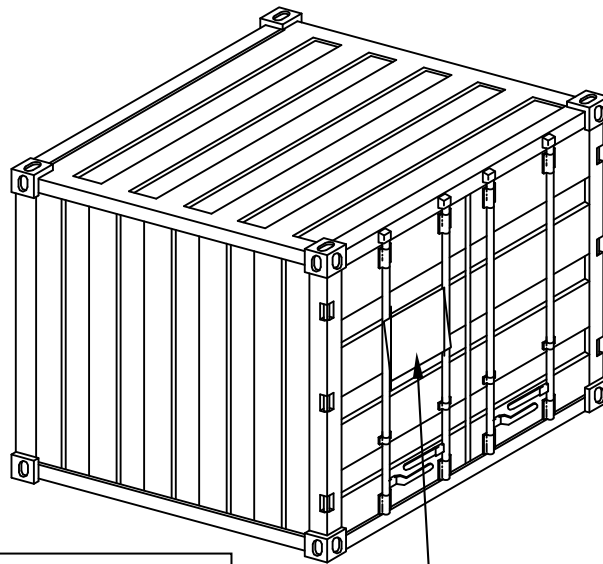
CONT NO.	CONTENTS	TYPE	NO. IN GROUP	NO. IN MODULE	SUBSYSTEM	L	W	H	CUBE	WEIGHT	HAZMAT
41A-1	Billeting Heater Kit	TRICON	1 of 17	1 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-2	Billeting Heater Kit	TRICON	2 of 17	2 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-3	Billeting Heater Kit	TRICON	3 of 17	3 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-4	Billeting Heater Kit	TRICON	4 of 17	4 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-5	Billeting Heater Kit	TRICON	5 of 17	5 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-6	Billeting Heater Kit	TRICON	6 of 17	6 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-7	Billeting Heater Kit	TRICON	7 of 17	7 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-8	Billeting Heater Kit	TRICON	8 of 17	8 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-9	Billeting Heater Kit	TRICON	9 of 17	9 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-10	Billeting Heater Kit	TRICON	10 of 17	10 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-11	Billeting Heater Kit	TRICON	11 of 17	11 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-12	Billeting Heater Kit	TRICON	12 of 17	12 of 25	MSCW	77.5	96	96	413.33	4660	No

**Table 5. Shipping and Storage Container Summary MSCW – Continued.**

41A-13	Billeting Heater Kit	TRICON	13 of 17	13 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-14	Billeting Heater Kit	TRICON	14 of 17	14 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-15	Billeting Heater Kit	TRICON	15 of 17	15 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-16	Billeting Heater Kit	TRICON	16 of 17	16 of 25	MSCW	77.5	96	96	413.33	4660	No
41A-17	Billeting Heater Kit	TRICON	17 of 17	17 of 25	MSCW	77.5	96	96	413.33	4660	No
42A-1	CWK Tent Kit, Part A	TRICON	1 of 1	18 of 25	MSCW	77.5	96	96	413.33	6700	No
42B-1	CWK Tent Kit, Part B	TRICON	1 of 1	19 of 25	MSCW	77.5	96	96	413.33	7740	No
42C-1	CWK Tent Kit, Part C	TRICON	1 of 1	20 of 25	MSCW	77.5	96	96	413.33	7620	No
43A-1	Water Bladder Kit	Modified TRICON	1 of 3	21 of 25	MSCW	77.5	96	96	413.33	6860	No
43A-2	Water Bladder Kit	Modified TRICON	2 of 3	22 of 25	MSCW	77.5	96	96	413.33	6860	No
43A-3	Water Bladder Kit	Modified TRICON	3 of 3	23 of 25	MSCW	77.5	96	96	413.33	6860	No
44A-1	CWK Site Preparation Kit	TRICON	1 of 1	24 of 25	MSCW	77.5	96	96	413.33	7146	No
45A-1	Tent Access/SSP Kit	Modified TRICON	1 of 1	25 of 25	MSCW	77.5	96	96	413.33	6100	Yes

**PLACING SHIPPING AND STORAGE CONTAINERS INTO CONSOLIDATED AREA**

Establish a consolidated area to store containers that are not needed during FP operation. The area should be easily accessible. Avoid low areas in which water may accumulate. Seek an area of firm, level ground, preferably with asphalt or concrete cover. The containers can also be positioned as perimeter protection. At the discretion of the local commander TRICON can be stacked two high. Stack containers so that they are accessible and data plates are visible. Determine and note the re-inspection dates of the containers reflected on the data plate before stacking. Appropriate material handling equipment must be available to assure safe handling of the containers.



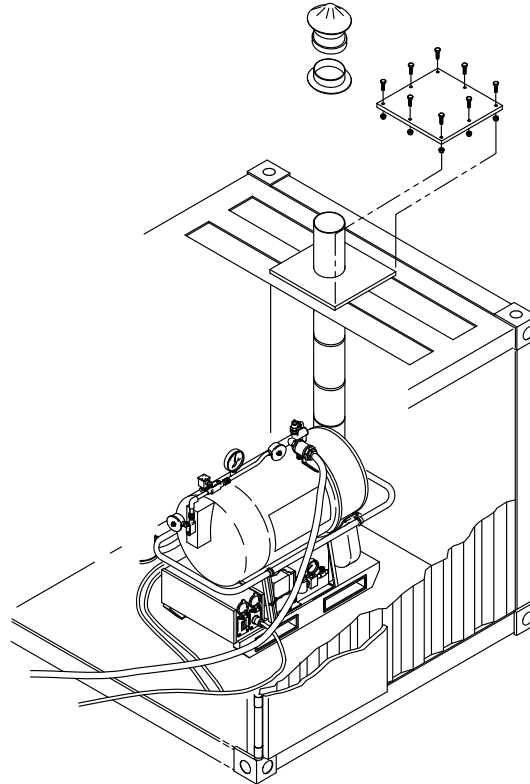
FORCE PROVIDER  
 P/O NSN 5419-01-473-2297  
 OR 5419-01-473-2294  
 BILLETING TENT KIT  
 CO TYPE 1A 1 OF 15  
 A/A JAN 98  
 WT 7,200 CU 413.3

Data Plate

## MODIFIED TRICON

Modified TRICON 43A (three each water bladder kits) and 45A (one TRICON containing tentage accessories) are shipped with the MSCW. These TRICON are modified in accordance with drawing 9-1-0607 (81337) to accept an M-80/H-82 Water Heater exhaust pipe as shown below. One each of these TRICON is used with the Food Service and Laundry subsystems and an additional two with the Shower subsystem (one per site).

These TRICON must be prepared before use as described in the operating instructions for the MSCW (WP 0038 00). Because of the special features they must be used with the designated subsystem(s) and cannot be interchanged with other TRICON, or placed in a consolidated storage area.



**END OF WORK PACKAGE**



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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS - BILLETING SUBSYSTEM**

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**GENERAL**

This WP contains operating procedures for the billeting subsystem. Procedures for the operation of the billeting subsystem in the MSCW Configuration is presented in WP 0038 00.

Before assembly and preparation for use of the billeting subsystem, the FP module site selection, planning, preparation, and staking of the billeting areas must be completed. TRICON 1A, 1B, 1C, and 1D must be staged as described in WP 0022 00.

The billeting subsystem requires connection to a power source.

**SCOPE**

Assembly and preparation for use of the billeting subsystem consists of the following:

- Unpacking of TRICON 1A, 1B, 1C, and 1D and inventory of equipment, including billeting footlockers shipped with other subsystems. (Refer to Table 5.)
- Assembly and preparation for use of TEMPER as described in TM 10-8340-224-13.
- Setting up and preparation for use of power supply equipment.
- Setting up billeting equipment.
- Installation of ECU (optional).
- Connecting billeting groups to a PDISE.

**UNPACKING AND INVENTORY**

Unpack and inventory billeting subsystem components using Table 1 through 4 of this WP. Retrieve and inventory footlockers shipped in other subsystem TRICON as identified in Table 5. Billeting equipment is packed in the following container types and quantities:

- Fifteen TRICON Type 1A (Billeting Kits)
- Fifteen TRICON Type 1B (Air Conditioner (ECU) Kits)
- One TRICON Type 1C (Footlockers)
- One TRICON Type 1D (Billeting Bunk Bed Kit)

Refer to WP 0038 00 for location and disposition of MSCW equipment to be used with the billeting subsystem.

To unpack the equipment, proceed as follows:

1. Open each container and check its contents against Tables 1 through 4, depending on the container type (the container type is stenciled on the container door as illustrated in WP 0021 00). An inventory list located on the inside of the TRICON door can also be used to check contents.
2. Remove each item from the container and set it aside, but not in the area where a TEMPER or other equipment is to be positioned.
3. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.
4. Retrieve additional billeting footlockers from other subsystem TRICON (Refer to Table 5.)

Table 1. Inventory List for Billeting Kit TRICON Type 1A.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTOR LINK	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
<b>TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V</b>	TM 10-8340-224-13	2
CABLE ASSEMBLY OUTLET TYPE III, 156 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY OUTLET TYPE III, 254 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY LIGHT TYPE III AND IV, 103 IN	TM 10-8340-224-13	2
CABLE ASSEMBLY LIGHT TYPE III AND IV, 173 IN	TM 10-8340-224-13	2
STAND, DISTRIBUTION BOX, TEMPER	TM 10-8340-224-13	2
<b>BED, BUNKABLE, DISC-O</b>	WP 0086 00, COEI, Item 1	30
FRAME, BED ENDS	TM 10-5419-206-23P	60
SIDE RAIL, SWAGED	TM 10-5419-206-23P	120
SIDE RAIL, UNSWAGED	TM 10-5419-206-23P	60
DISCS	TM 10-5419-206-23P	120
MAT, POLYPROPYLEN	TM 10-5419-206-23P	30
STACK ADAPTORS, EXTRA LONG	TM 10-5419-206-23P	60
TRANSPORT BAG, CANVAS	TM 10-5419-206-23P	30
STRAP, LOCKING	TM 10-5419-206-23P	30
<b>LIGHT SET, FLUORESCENT</b>	TM 10-8340-224-13	4
STRAP, WEBBING	TM 10-8340-224-13	16
LIGHT EXTENSION ASSEMBLY	TM 10-8340-224-13	16
CONTAINER ASSEMBLY, STORAGE	TM 10-8340-224-13	4
LAMP, FLUORESCENT	TM 10-8340-224-13	4
FUSE HOLDER, EXTRACTOR POST	TM 10-8340-224-13	4
<b>TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE IV, 32 FT, GREEN</b>	TM 10-8340-224-13	2
PIN, TENT, WOOD, 24 IN	TM 10-8340-224-13	50
PIN, TENT, STEEL, 18 IN	TM 10-8340-224-13	120
FRAME, END SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	4
PURLIN ASSEMBLY	TM 10-8340-224-13	10
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	8
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	4
FRAME, WINDOW SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	6
HEADER ASSEMBLY	TM 10-8340-224-13	6
PURLIN ASSEMBLY	TM 10-8340-224-13	30
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	6
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	12
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	6
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	6
FRAME ASSEMBLY, VESTIBULE, TEMPER	TM 10-8340-224-13	6
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	24
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	6
END SECTION, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	72
LINE, TENT	TM 10-8340-224-13	72

Table 1. Inventory List for Billeting Kit TRICON Type 1A - Continued.

Subcomponent	Where Listed/Illustrated	Qty
FLY, TENT, 16 FT, TEMPER	TM 10-8340-224-13	4
COVER, TENT, TEMPER	TM 10-8340-224-13	4
WINDOW SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	8
LINER, END SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	4
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	4
FLOOR, 8 FT, SINGLE PLY, TEMPER	TM 10-8340-224-13	8
VESTIBULE WITH DOOR, TEMPER	TM 10-8340-224-13	2
VESTIBULE TENT SECTION	TM 10-8340-224-13	2
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	2
FLOOR, VESTIBULE, SINGLE PLY, TEMPER	TM 10-8340-224-13	2
CONTAINER, VESTIBULE, TEMPER	TM 10-8340-224-13	2
PARTITION, TEMPER	TM 10-8340-224-13	6
PLENUM, EXTENDABLE, 16 FT, TEMPER	TM 10-8340-224-13	2
PLENUM, ENTRANCE 16 FT, TEMPER	TM 10-8340-224-13	2
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	8
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-13	WP 0086 00, BII, Item 2	1
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0086 00, BII, Item 1	1
<b>ELECTRICAL FEEDER SYSTEM, PDISE M100</b>	TM 9-6150-226-13	1
STRAP, CABLE CARRYING	TM 9-6150-226-13	8
CABLE, PIGTAIL, 100A, 4 FT LONG	TM 9-6150-226-13	1
CABLE ASSEMBLY, SERVICE, 100A, 50 FT LONG	TM 9-6150-226-13	2
ELECTRICAL FEEDER CENTER, 100A	TM 9-6150-226-13	1
TECHNICAL MANUAL, DISE	TM 9-6150-226-13	1
<b>CLEANING EQUIPMENT AND TOOLS</b>		
SLEDGE HAMMER, 12 LBS, FIBERGLASS HANDLE, 34 IN L	WP 0086 00, COEI, Item 13	1
WRINGER, MOP, SIZE-SMALL, TYPE-GEAR & RACK	WP 0086 00, COEI, Item 15	2
BUCKET, MOP, STEEL, OVAL, 16 QUART, W/ CASTERS	WP 0086 00, COEI, Item 2	2
SHOVEL, ROUND POINT, D HANDLE	WP 0086 00, COEI, Item 12	2
BROOM, UPRIGHT	WP 0086 00, COEI, Item 25	2
MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD	WP 0086 00, COEI, Item 10	1
MOP HANDLE	WP 0086 00, COEI, Item 11	2
MOP HEAD	WP 0086 00, COEI, Item 26	2
<b>OTHER ITEMS</b>		
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG	WP 0086 00, COEI, Item 3	4
COVER, TENT, TEMPER	TM 10-8340-224-13	4
PLENUM, END WALL, 16 FT, TEMPER	TM 10-8340-224-13	2
FLOOR MAT, ALTERED ITEM	WP 0086 00, COEI, Item 9	2
TEMPER CONVENIENCE OUTLET ASSEMBLY, 3 DROP	TM 10-8340-224-13	4
FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND	WP 0086 00, COEI, Item 8	2
TRUNK, LOCKER	WP 0086 00, COEI, Item 14	8

Table 2. Inventory List for Billeting ECU Kit TRICON Type 1B.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
<b>AIR CONDITIONER ASSY, 54 K BTUH, 208V, 3 PHASE, 50/60 HZ, HORIZONTAL</b>	WP 0086 00, COEI, Item 24	2
COVER, DUCT	TM 10-5419-206-23P	4
DUCT HOLDER – 7 FT	TM 10-5419-206-23P	2
DUCT HOLDER – 9 FT	TM 10-5419-206-23P	2
DUCT, FLEXIBLE – 7 FT	TM 10-5419-206-23P	2
DUCT, FLEXIBLE - 9 FT	TM 10-5419-206-23P	2
PULLEY BUSHING (50HZ OPERATION)	TM 10-5419-206-23P	2
PULLEY (50HZ OPERATION)	TM 10-5419-206-23P	2
HOSE ADAPTER, DRAIN	TM 10-5419-206-23P	4
TUBING, SILICONE, 15 FT	TM 10-5419-206-23P	4
DEBRIS SCREEN, AIR CONDITIONER DUCT	WP 0086 00, COEI, Item 7	2
TECHNICAL MANUAL, AIR CONDITIONER, 54,000 BTU/HR TM 9-4120-398-14 AND 9-4120-411-14	WP 0086 00, BII, Item 4	2
<b>FLOOD LIGHTS</b>		
TRIPOD FLOODLIGHT, 1000W	WP 0086 00, COEI, Item 32	1
TRIPOD FLOODLIGHT, 2000W	WP 0086 00, COEI, Item 33	1
EXTENSION CORD, 50 FT, #12 AWG/3	WP 0086 00, COEI, Item 35	2
GLOVE, INSERT, COTTON	WP 0086 00, COEI, Item 34	1
<b>OTHER ITEMS</b>		
TRUNK, LOCKER	WP 0086 00, COEI, Item 14	14
CHAIR, FOLDING, STEEL	WP 0086 00, COEI, Item 6	14

Table 3. Inventory List for Billeting Trunk Locker Kit TRICON Type 1C.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
<b>BED, BUNKABLE, DISC-O</b>	WP 0086 00, COEI, Item 1	10
FRAME, BED ENDS	TM 10-5419-206-23P	20
SIDE RAIL, SWAGED	TM 10-5419-206-23P	40
SIDE RAIL, UNSWAGED	TM 10-5419-206-23P	20
DISCS	TM 10-5419-206-23P	40
MAT, POLYPROPYLEN	TM 10-5419-206-23P	10
STACK ADAPTORS, EXTRA LONG	TM 10-5419-206-23P	20
TRANSPORT BAG, CANVAS	TM 10-5419-206-23P	10
STRAP, LOCKING	TM 10-5419-206-23P	10
TRUNK, LOCKER	WP 0086 00, COEI, Item 14	66
TECHNICAL MANUAL, FP SYSTEM TM 10-5419-206-13	WP 0086 00, BII, Item 6	1
TECHNICAL MANUAL, FP SYSTEM TM 10-5419-206-23P	WP 0086 00, BII, Item 5	1

**Table 4. Inventory List for Billeting Bunk Bed Kit TRICON Type 1D.**

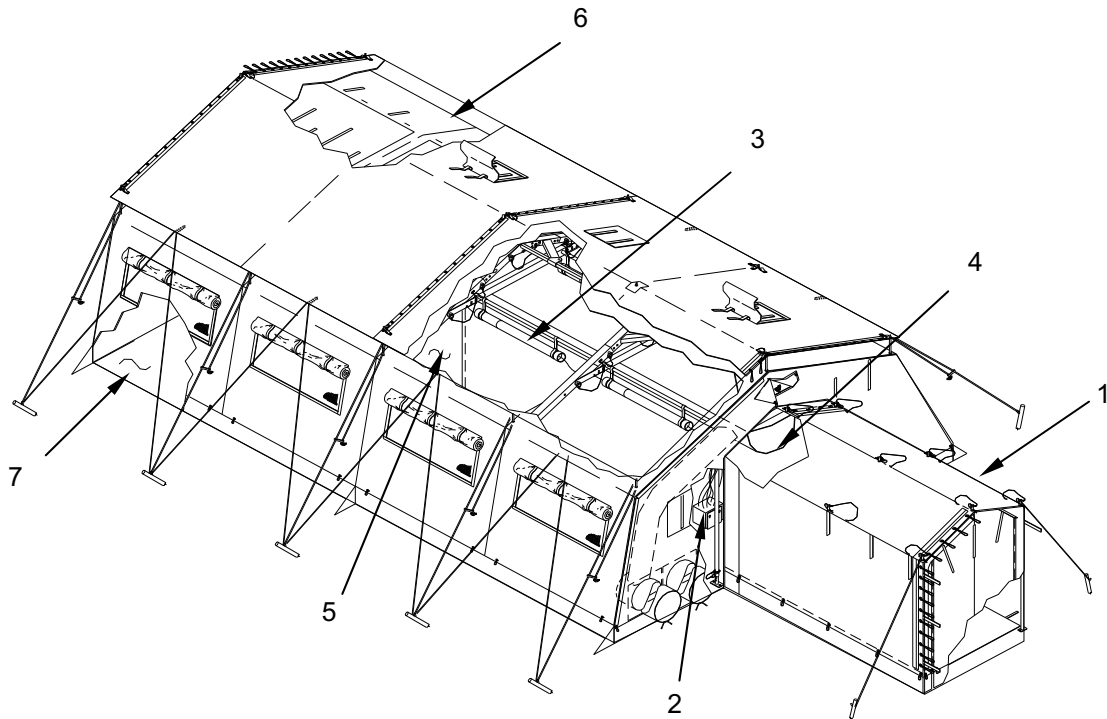
Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
<b>BED, BUNKABLE, DISC-O</b>	WP 0086 00, COEI, Item 1	200
FRAME, BED ENDS	TM 10-5419-206-23P	400
SIDE RAIL, SWAGED	TM 10-5419-206-23P	800
SIDE RAIL, UNSWAGED	TM 10-5419-206-23P	400
DISCS	TM 10-5419-206-23P	800
MAT, POLYPROPYLENE	TM 10-5419-206-23P	200
STACK ADAPTORS, EXTRA LONG	TM 10-5419-206-23P	400
TRANSPORT BAG, CANVAS	TM 10-5419-206-23P	200
STRAP, LOCKING	TM 10-5419-206-23P	200

**Table 5. Shipping Location of Additional Billeting Footlockers.**

Container Type	Number of Containers	Footlockers per Container	Total Number of Footlockers
2A (LAUNDRY)	1	13	13
4B (SHOWER)	1	8	8
4C (SHOWER)	1	10	10
10E (FOOD SERVICE)	2	10	20
10F (FOOD SERVICE)	1	6	6
10G (FOOD SERVICE)	1	4	4
10K (FOOD SERVICE)	1	3	3
10L (FOOD SERVICE)	1	12	12
12A (MWR)	2	10	20
12C (AIR CONDITIONERS)	5	10	50
12E (ADMIN/MWR)	1	10	10
12F (ADMIN/MWR)	3	8	24
<b>TOTAL</b>			<b>180</b>

**ASSEMBLY AND PREPARATION FOR USE OF BILLETING TEMPER**

1. The Type IV, 20-foot x 32-foot TEMPER should be erected in five groups of six TEMPER as determined by the staking diagram shown in WP 0022 00. Two of these TEMPER should be designated as HQ or administrative facility for customer unit. Consider a convenient or central location for these TEMPER.
2. The contents of one type 1A container are required to erect two complete billeting TEMPER. To simplify setup, do not pool or mix container contents.
3. Use procedures found in TM 10-8340-224-13 to erect the Type IV, 20-foot x 32-foot billeting TEMPER, including end wall vestibule (1), electrical distribution box (2), lights (3), end wall plenums (4), partitions (5), liners (6), and floors (7).



**ASSEMBLY AND PREPARATION FOR USE OF BILLETING POWER SUPPLY**

**WARNING**



Power to a Force Provider Module can be provide by a commercial source, or generated by either the MSPG, or MSPP. In each case, power will be supplied to the PDISE for distribution to the user. It is the responsibility of individual subsystem personnel to lay out and assemble the requisite cables to the PDISE for connection. Personnel of the Force Provider Company Facilities Support Section are responsible for facilitating power supply to the PDISE. Only qualified personnel must connect user cables to the PDISE and pigtails to the power source. Failure to observe this warning may result in severe injury or death by electrocution.

Assemble the power supply equipment for each billeting group as follows:

1. Position three PDISE-M100s (1) in the center of six-billet TEMPER group where designated by staking or approximately 90-feet from power source (2).

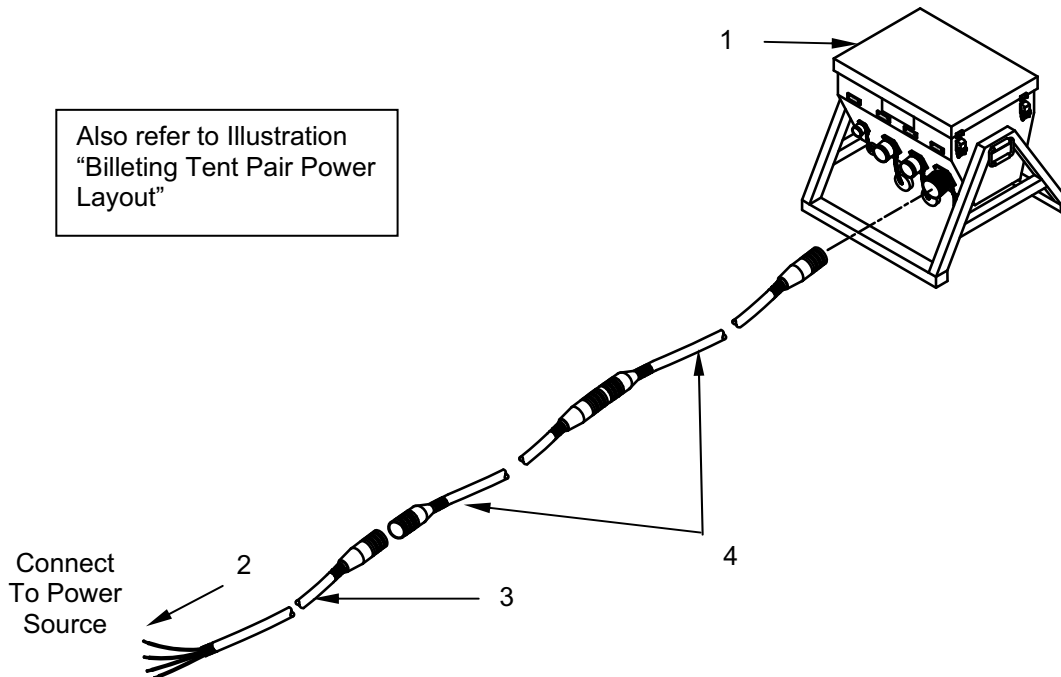
**CAUTION**

Keep cables away from vehicle traffic. Damage to cables may result.

**NOTE**

When assembling power group components, follow procedures for laying out cables from power source out to point of use, then connect cables from point-of-use back to power source. Male ends of cables always go toward power source.

2. Position a 100-A/4-foot pigtail (3) and two 100-A/50-foot service cables (4) on the power source side of each PDISE-M100 (1). These cables will be laid out and connected to the PDISE-M100 (1) and power source (2) by facilities support section personnel.



3. Lay out two, 60-A/100-foot power cables (5) from each PDISE-M100 (1) to one of the six TEMPER power controls (6). Pass cables under TEMPER end wall.

**CAUTION**

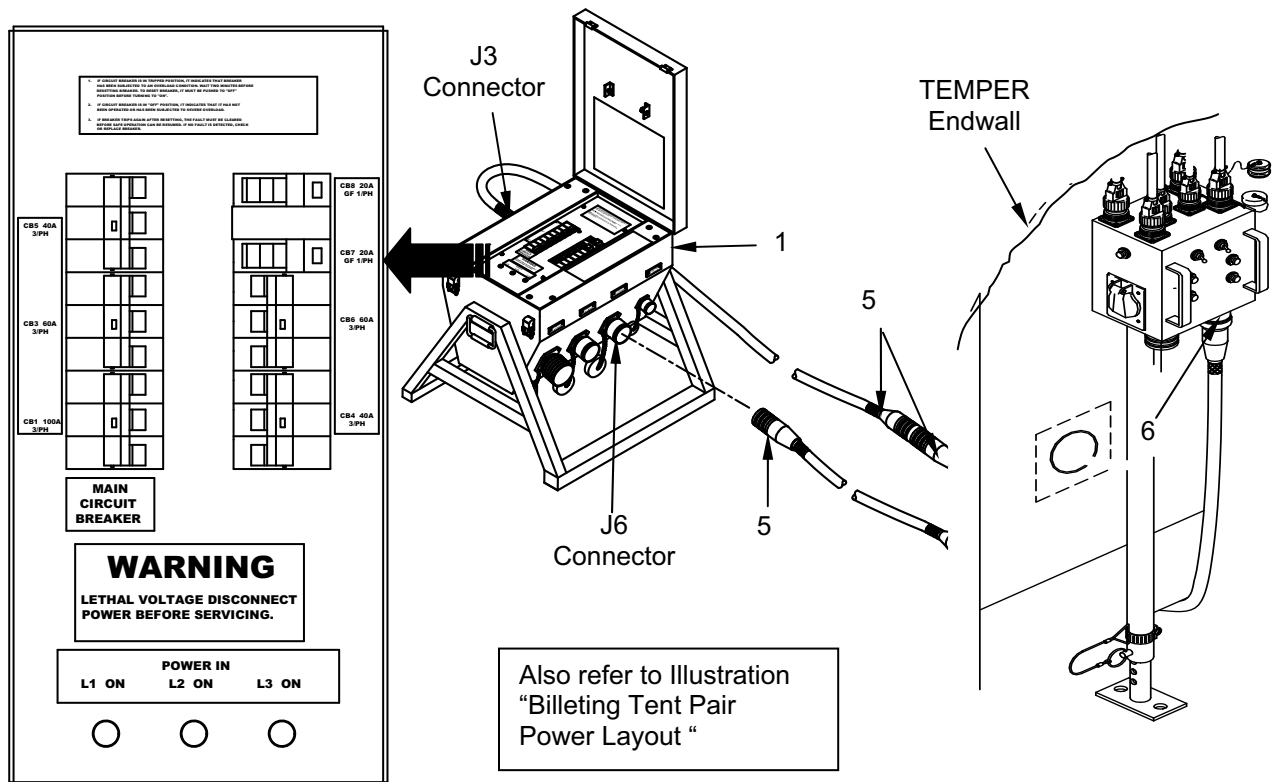
Connect all loose dust caps after connecting cables. Dirt and water may cause damage to electrical connections.

4. Insert female end of 60-A/100-foot power cables (5) firmly into POWER IN receptacle of TEMPER electrical distribution box (6) and secure with lock rings. Connect dust caps together.
5. Connect each pair of 60-A/100-foot power cables (5) together and secure with lock rings. Connect dust caps together.
6. Ensure all circuit breakers in PDISE-M100s (1) are set to OFF position.

**NOTE**

Each PDISE-M100 (1) will service two, Type IV, 20-foot x 32-foot TEMPER.

7. Connect one, 60-A/100-foot power cable (5) pair to the J3, and a second pair of 60-A/100-foot power cables (5) to the J6, 60-A Connectors on the PDISE-M100 (1) and secure with lock rings. Connect dust caps together.

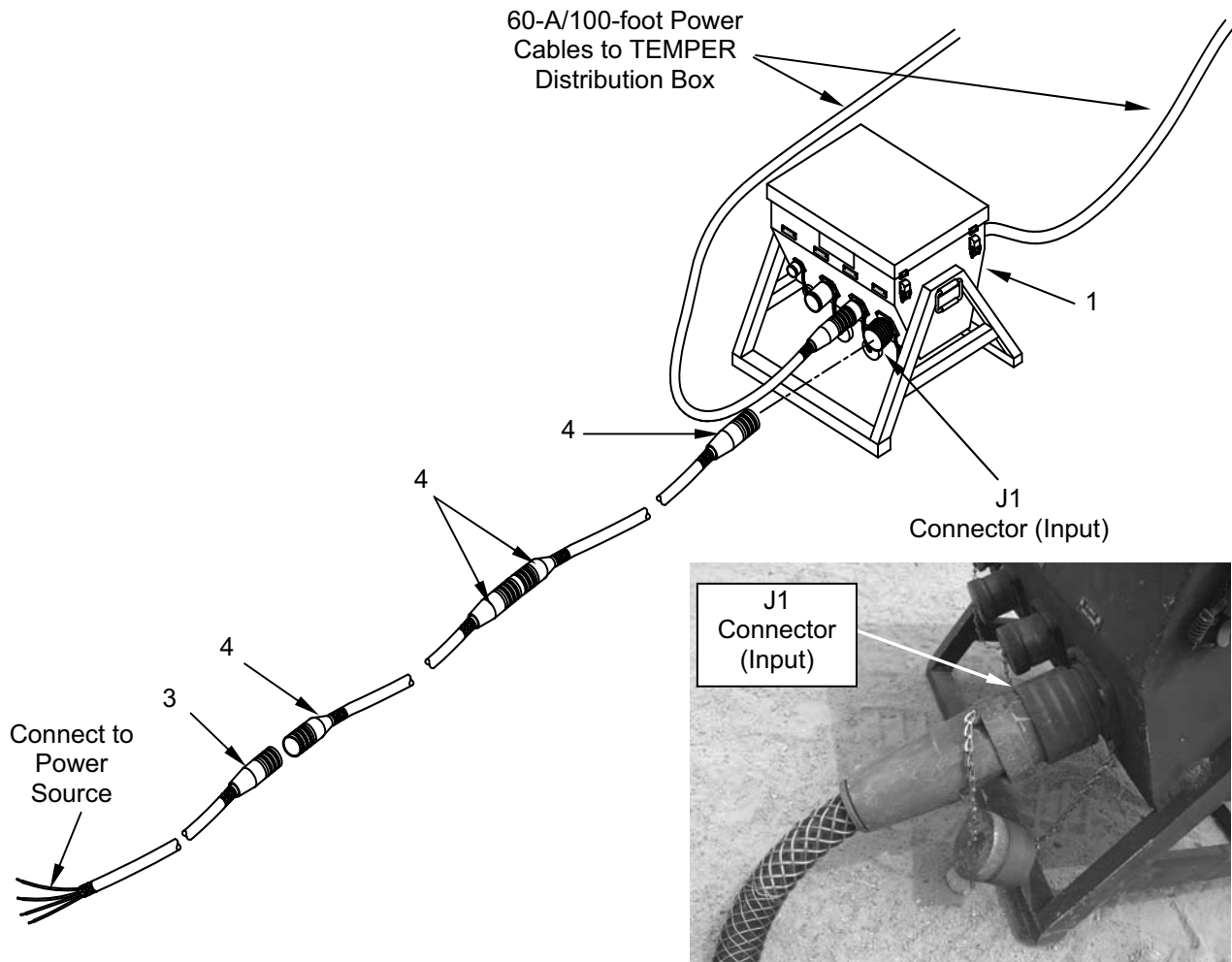




**WARNING**

Only qualified personnel must connect service cables to PDISE-M100 and pigtails to power source. Failure to observe this warning may result in severe injury or death by electrocution.

8. Connect 100-A/50-foot service cable (4) to the J1, 100-A Input connector on the PDISE-M100 (1) and secure with lock rings. Connect dust caps together.
9. Connect a second 100-A/50-foot service cable (4) to the first. Connect dust caps together and secure with lock rings.
10. Connect a 100-A/4-foot pigtail (3) to each of the three assembled pairs of 100-A/50-foot service cables (4) and secure with lock rings. Connect dust caps together.
11. Once the power distribution system has been established, connect the four 100-A/4-foot pigtails (3) to the power source.

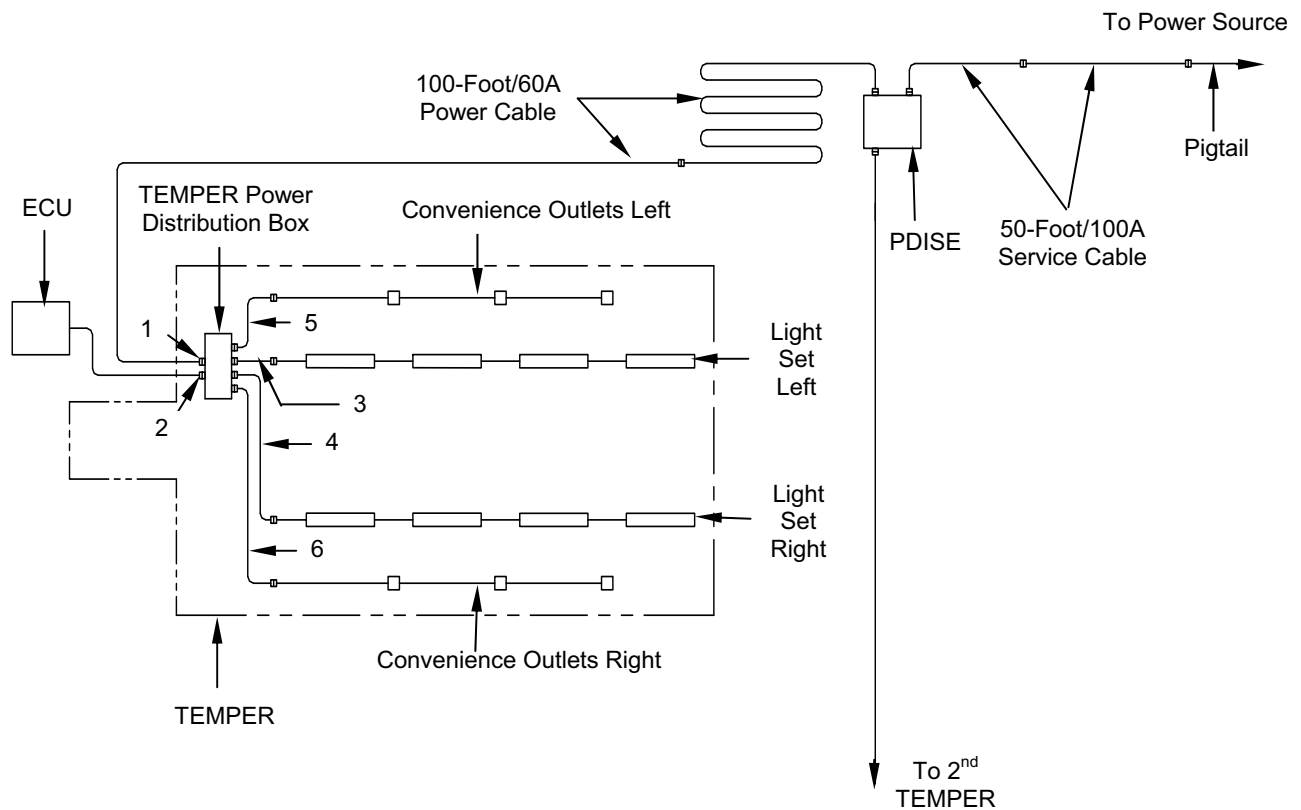


Make connections to the TEMPER power distribution box as follows:

**CAUTION**

Ensure power switches on power distribution box are off before connecting power cable to the J1 connector.

1. With power switches on the power distribution box turned off, connect the 60 A power cable to the J1 Power-In Connector (1) located on the bottom of the power distribution box.
2. Connect the ECU power cable to the J2 Power-Out Connector (2) located on the bottom of the power distribution box.
3. Connect the 103-inch light set cable assembly (3) to the J5 connector and the 173-inch light set cable assembly (4) to the J6 connector located on top of the power distribution box.
4. Connect the power cord of the left light set string to the 103-inch light set cable assembly and the power cord of the right light set string to the 173-inch light set cable assembly.
5. Connect the 156-inch outlet cable assembly (5) to the J7 or J9 connector and the 254-inch outlet cable assembly (6) to the J8 or J10 connector located on top of the power distribution box.
6. Connect the left convenience outlet assembly (3 Drop) to the 156-inch outlet cable assembly (5) and the right convenience outlet assembly (3 Drop) to the 254-inch outlet cable assembly (6).
7. When power is available, turn on power switches on distribution box to operate components as needed.



**Billeting Tent Power Layout.**

**BILLETING EQUIPMENT LAYOUT**

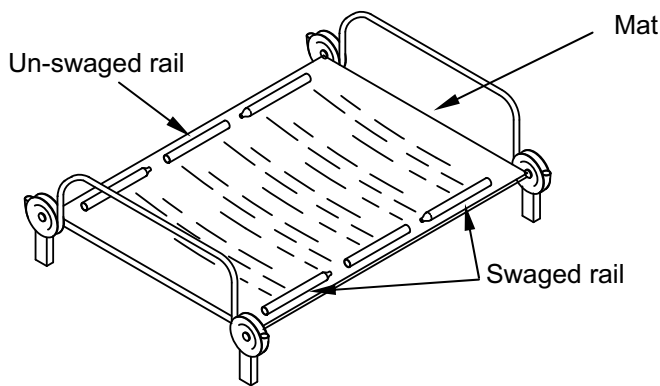
Billeting equipment should be positioned in each erected Billet TEMPER as shown in one of the two layout plans. Refer to the Basic Equipment Layout and Alternate Equipment Layout that follow.

1. Unroll floor mat (1) in center of each Billet TEMPER.

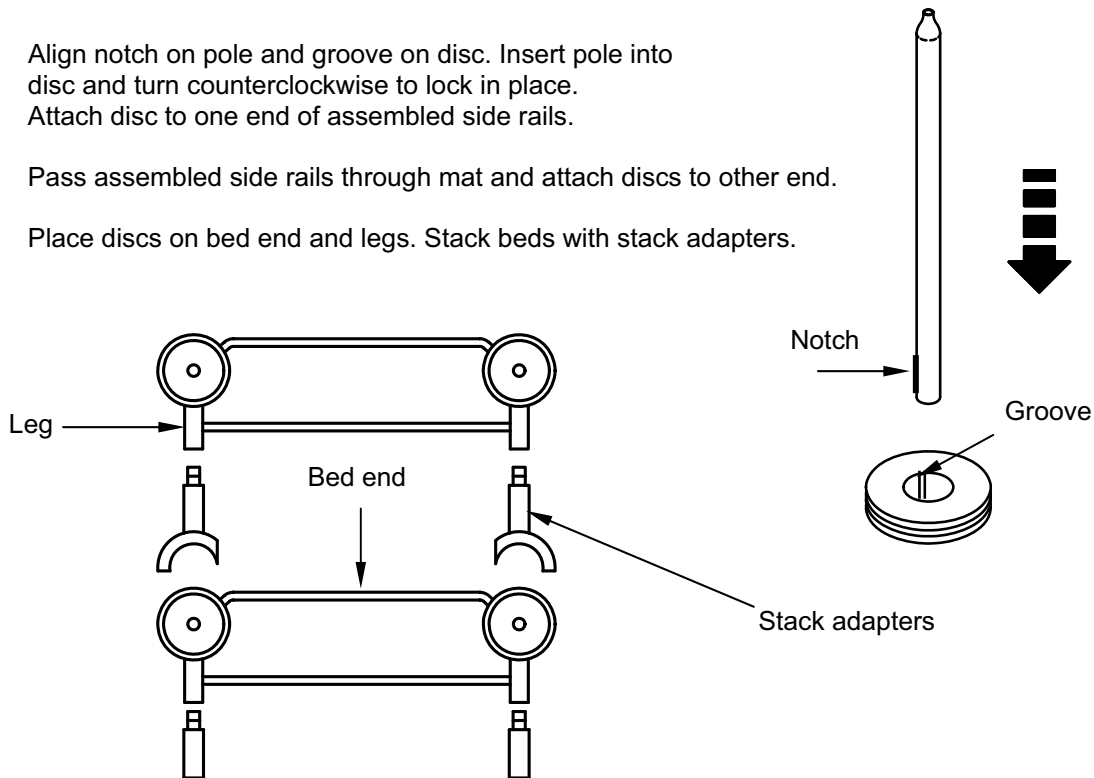
**NOTE**

Some footlockers required for billeting are shipped in containers other than types 1A and 1B (refer to Table 5). Once all Force Provider subsystems have been unpacked, these footlockers can be collected for use in billeting subsystem.

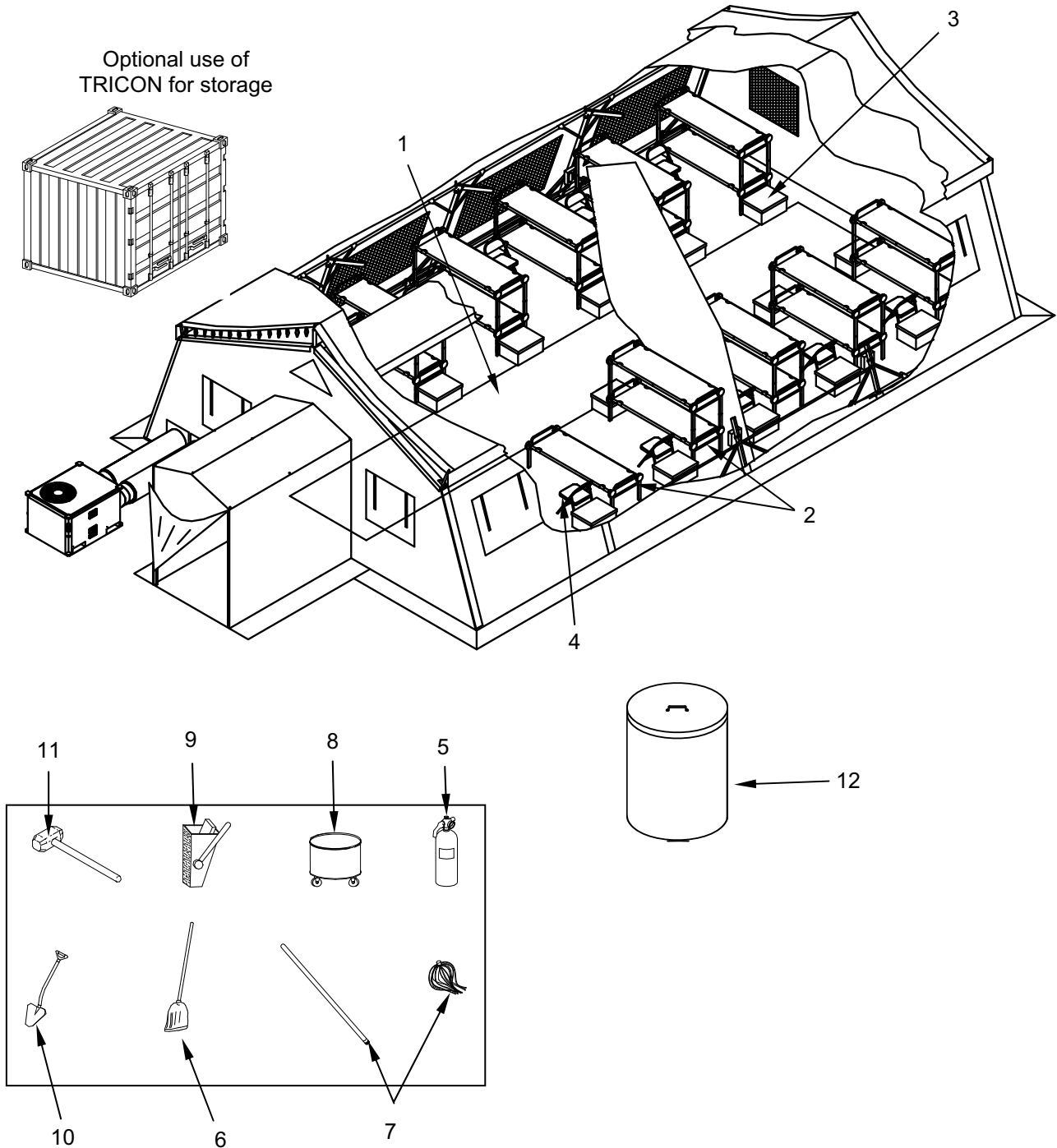
2. Refer to Figure 1 and assemble bunk beds as follows:
  - a. Assemble two swaged and one un-swaged side rails as shown. Repeat for other side of bed.



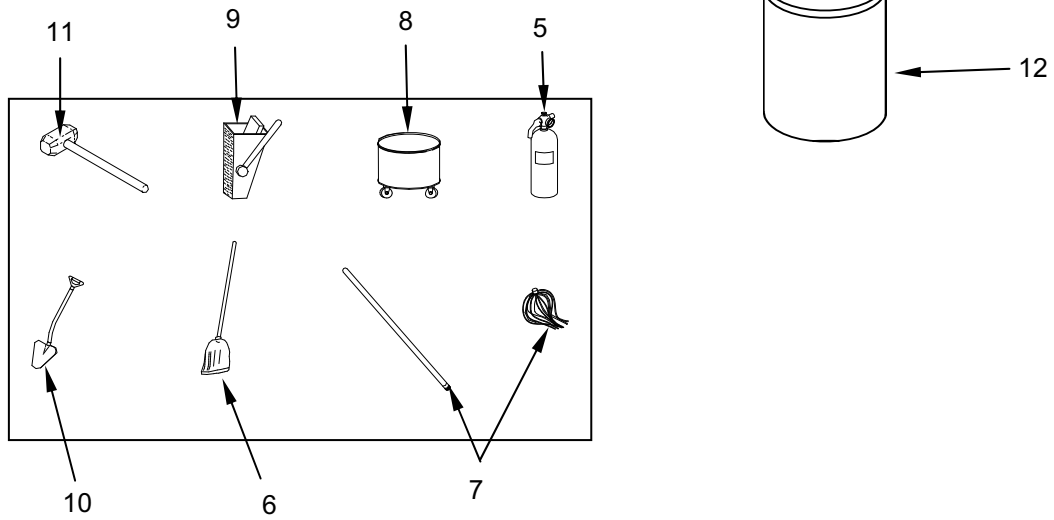
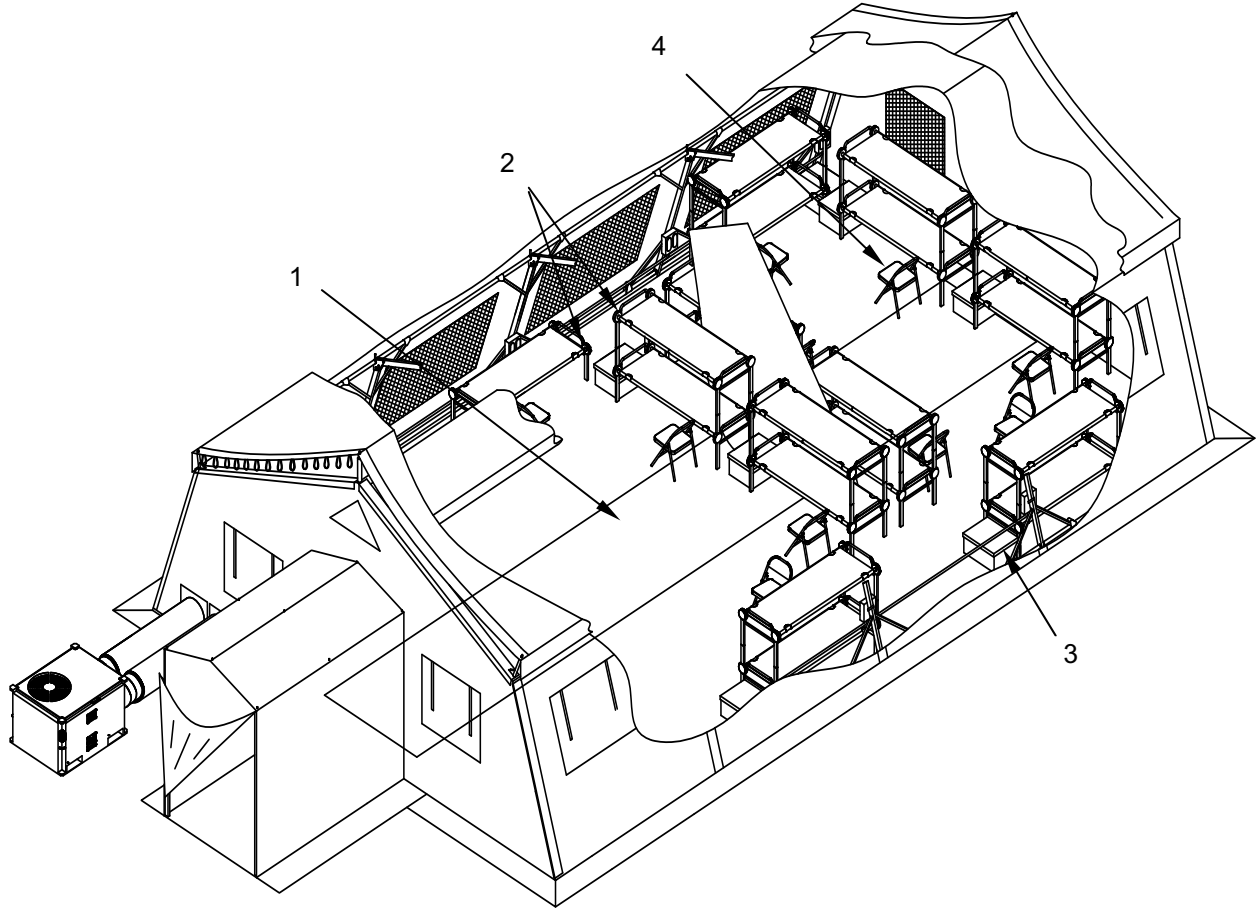
- b. Align notch on pole and groove on disc. Insert pole into disc and turn counterclockwise to lock in place. Attach disc to one end of assembled side rails.
  - c. Pass assembled side rails through mat and attach discs to other end.
  - d. Place discs on bed end and legs. Stack beds with stack adapters.



3. Position 9 double and one single bunk (2) 19 footlockers (3) and 10 chairs (4) in each billet TEMPER as shown in Figure 1 below, or in the alternate layout shown in Figure 2.
4. Position fire extinguisher (5), broom (6), mop (7), mop bucket (8) and mop wringer (9), shovel (10) and sledge hammer ((11) only one available for every other tent) near each entrance of every TEMPER.
5. Obtain 20 each trash cans and lids (12) from TRICON 12B (MWR/Admin Support Kit). Position one trash can with lid between the entrance (Vestibule) of two TEMPER (Four per Billeting Group).



**Basic Equipment Layout.**



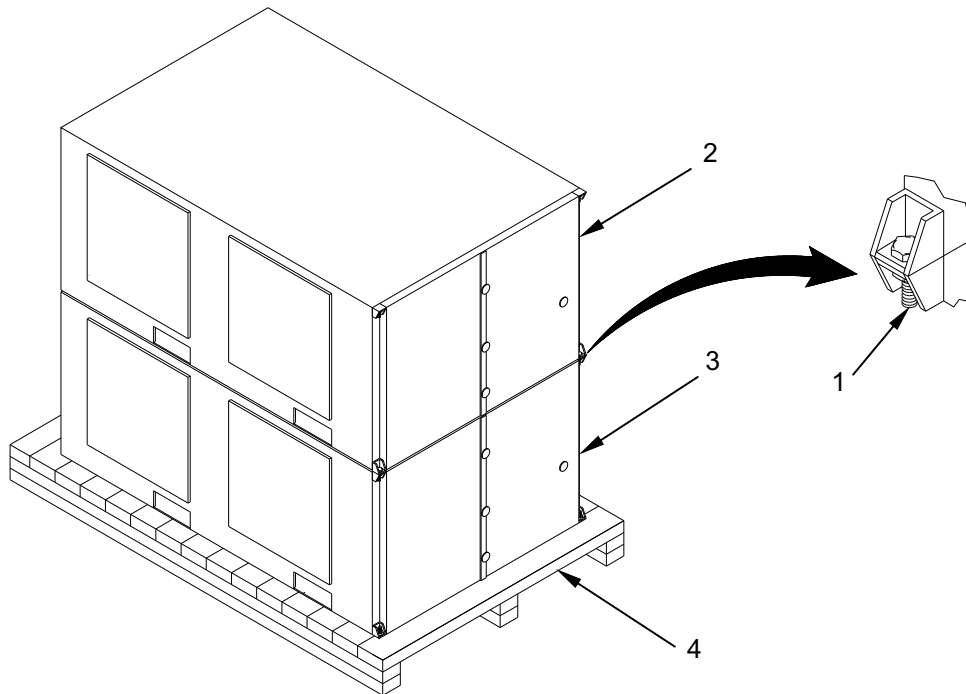
**Alternate Equipment Layout.**

**ASSEMBLY AND PREPARATION OF ECU****NOTE**

The following instructions for the assembly and preparation for use of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-6408) is at hand, assemble, install, operate, and maintain it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are at hand, assemble, install, operate, and maintain them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions furnished herein.

Installation and use of ECU is optional, or may be deferred. Use the following procedures when installing ECU.

1. Remove ECU pallet from TRICON 1B. Remove preservation materials.
2. Remove four nuts, bolts, and washers (1) that secure ECU (2) and (3) together.
3. Use forklift to lift top ECU (2) off lower ECU (3).
4. Install nuts, bolts, and washers (1) back onto lower ECU (3) for future use.
5. Leave pallet (4) attached to lower ECU (3).



**Set up ECU as follows:****NOTE**

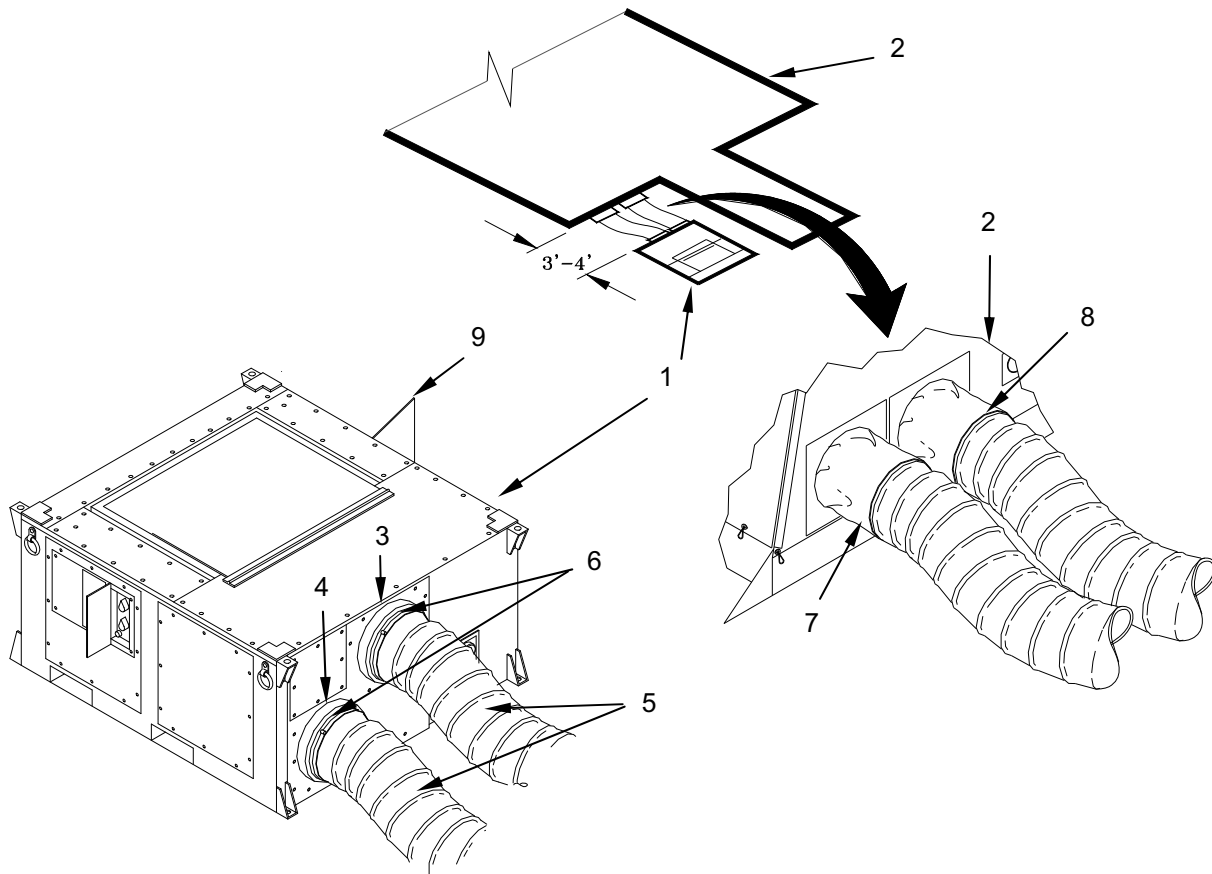
Leaving pallet attached to ECU or using lumber or dunnage between ECU and ground will help to prevent corrosion during long deployments.

1. Obtain lumber or dunnage (several 2-inch x 4-inch pieces are sufficient) on which to set ECU if no pallet is attached.
2. Position each ECU on dunnage or pallet at prepared site (1), three to four-feet from end wall of TEMPER (2), with supply (3) and return (4) duct ports facing TEMPER (2).
3. Remove ducts (5) from ECU by opening hinged panel on rear storage compartment (9). Retrieve ducts and racks. Remove ducts from racks and store racks in condenser compartment.

**NOTE**

Observe that airflow directional arrow on ducts are facing in correct direction.

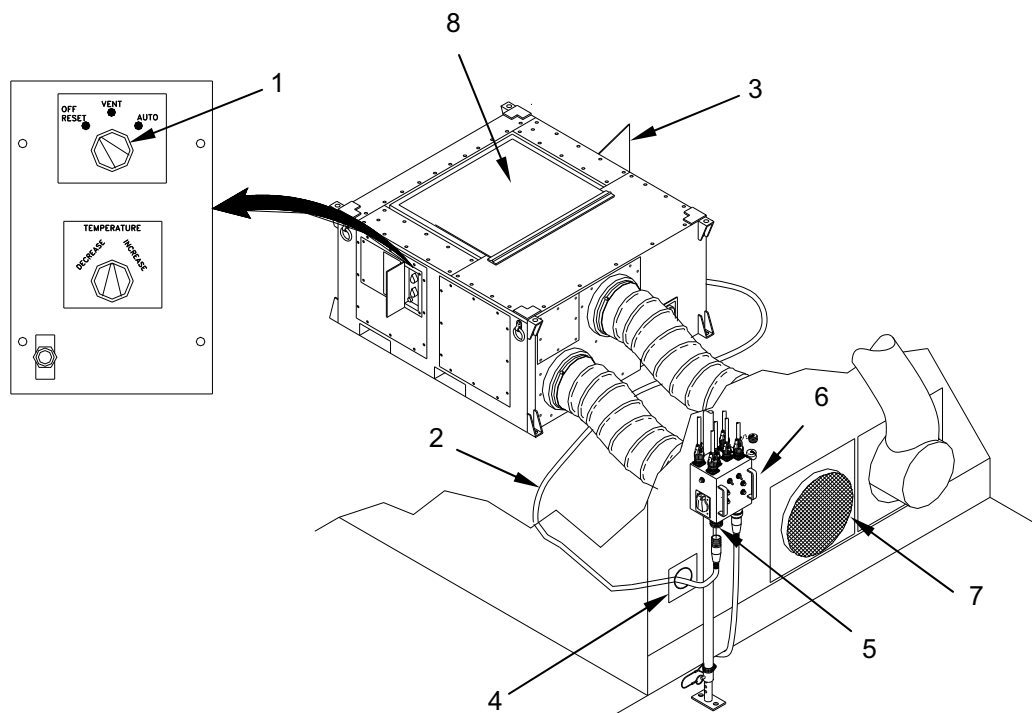
4. Place the 9-foot duct in the correct direction onto the supply (3) and the 7-foot duct to the return (4) flanges on the ECU. Tighten hose clamps (6) on flanges.
5. Attach ECU supply duct (3) to the TEMPER duct (7) that has plenum attached.
6. Attach ECU return duct (4) to the TEMPER duct (8) that does not have plenum attached.
7. Install the condenser drain hose.



**NOTE**

Ensure mode selector switch (1) is set to OFF-RESET position.

8. Remove ECU power cable (2) from condenser compartment door storage box (3).
9. Route ECU power cable (2) through TEMPER cable sock (4) or between end section and floor, and connect to POWER OUT (J2) receptacle (5) on TEMPER power distribution box (6). Connect dust caps together.
10. Install debris screen (7) on return duct.
11. Release and flip the condenser fan cover (8).
12. Ensure all doors are closed and secured.





**OPERATING INSTRUCTIONS FOR BILLETING SUBSYSTEM**

Operate the billeting subsystem by following the procedures in the component technical manuals listed below. Ensure the interior of the TEMPER are cleaned on a daily basis.

**OPERATING PROCEDURES FOR BILLETING TEMPER**

Operate billeting TEMPER in accordance with TM 10-8340-224-13.

**OPERATING PROCEDURES FOR PDISE M100**

Operate the PDISE in accordance with TM 9-6150-226-13.

**OPERATING PROCEDURES FOR ECU****NOTE**

If ECU Model AH-54 (NSN 4120-01-432-6408) is at hand, operate it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are used, operate them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions below.

**Initial Adjustments and Checks**

1. Ensure power cable has been connected to a 208/230-V, 3 Phase, 50/60-Hz power source.
2. Inspect all covers, panels, grilles, and screens for loose mounting, obstructions, preservation material, or shipping damage. Report damage to supervisor.

**Operation in Ventilate Mode**

1. Turn mode selector switch (1) to VENT position.

**NOTE**

When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

2. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

## Operation in Automatic Mode

### **CAUTION**

Compressor can be damaged if started with liquid refrigerant in crankcase. Power must be connected to ECU for a period of not less than 5 hours before starting in automatic mode. Do not operate the ECU in the automatic mode for cooling when the outside air temperature is below 50 °F. Under these conditions, operate in the ventilate mode and admit fresh air as required to maintain desired temperature in the conditioned space.

1. Turn mode selector switch (1) to AUTOMATIC position.
2. Turn TEMPERATURE control (3) toward DECREASE or INCREASE as necessary to adjust and maintain the desired temperature in the conditioned space. When adjusting the TEMPERATURE control, the ECU must be given adequate time to change the temperature in the conditioned space before making additional adjustments. The temperature control has a range of 40 °F to 90 °F (5 °C to 32 °C) with the mid-point being approximately 65 °F (18 °C). Turn mode selector switch (1) to AUTOMATIC position.

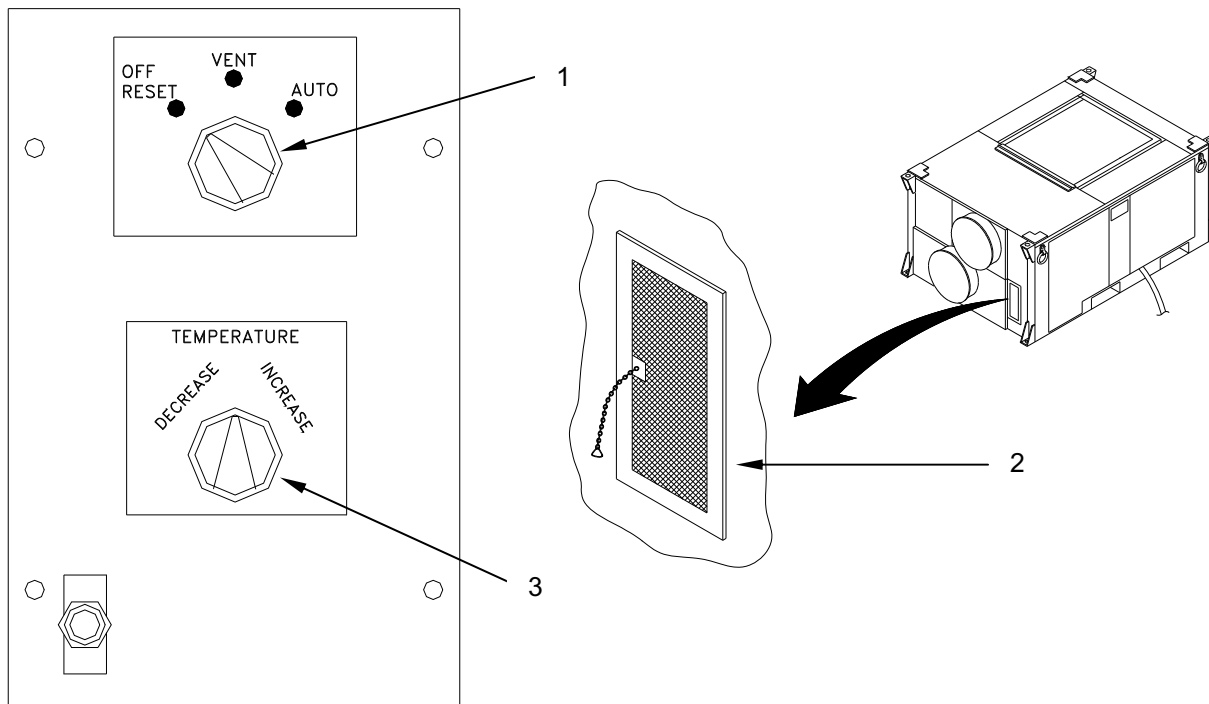
### **NOTE**

When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened slightly to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

3. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

### **Shutdown**

Turn mode selector (1) to the OFF/RESET position.



**END OF WORK PACKAGE**

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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS - LAUNDRY SUBSYSTEM**

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**GENERAL**

This WP contains operating procedures for the laundry subsystem. Procedures for the operation of the laundry subsystem in the MSCW Configuration are presented in WP 0038 00.

Before assembly and preparation for use of the laundry subsystem, the FP module site selection, planning, preparation, and staking of the laundry area must be completed. TRICON 2A, 2B, and 2C must be staged as described in WP 0022 00.

The laundry subsystem requires connection to a power source, as well as the potable water distribution, and graywater collection subsystems to become operational.

**SCOPE**

Assembly and preparation for use of the laundry subsystem before operation consists of the following:

- Unpacking and inventory of laundry subsystem equipment.
- Assembly and preparation for use of CBL in accordance with TM 10-3510-225-13&P.
- Installation of ECU.

**UNPACKING AND INVENTORY**

Unpack and inventory laundry subsystem components using Table 1 and 2 of this WP.  
Unpack and inventory CBL using TM 10-3510-225-13&P.

Laundry equipment is packed in the following container types and quantities:

One TRICON Type 2A (Laundry Tent Kit) (Includes 13 Footlockers intended for use with Billeting)  
One TRICON Type 2B (Laundry Kit)  
One ISO Type 2C (CBL) (Refer to TM 10-3510-225-13&P)

Refer to WP 0038 00 for location and disposition of MSCW equipment to be used with the laundry subsystem.

In addition to container contents, the following equipment is provided to operate the laundry subsystem:

- 55-gallon fuel drums from bulk fuel subsystem (two each).
- ECU from container 3B (one each).
- Doors, double, bump-through, from container 12B (one each).

To unpack the equipment, proceed as follows:

1. Open each TRICON and check its contents against Tables 1 and 2, depending on the container type (the container type is stenciled on the container door as illustrated in WP 0021 00).
2. Open the CBL ISO Container and unpack equipment as described in TM 10-3510-225-13&P.
3. Remove each item from the containers and set it aside, but not in the area where a TEMPER or other equipment is to be positioned.
4. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.

Table 1. Inventory List for Laundry Tent Kit TRICON Type 2A.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	5
<b>STAND, DISTRIBUTION BOX, TEMPER</b>	WP 0087 00, COEI, Item 35	1
TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V	WP 0087 00, COEI, Item 38	1
CABLE ASSEMBLY OUTLET TYPE III, 156 IN	TM 10-8340-224-13	2
CABLE ASSEMBLY OUTLET TYPE III, 254 IN	TM 10-8340-224-13	2
CABLE ASSEMBLY LIGHT TYPE III AND IV, 103 IN	TM 10-8340-224-13	1
CABLE ASSEMBLY LIGHT TYPE III AND IV, 173 IN	TM 10-8340-224-13	1
<b>LIGHT SET, FLUORESCENT</b>	WP 0087 00, COEI, Item 21	2
STRAP, WEBBING	TM 10-8340-224-13	8
LIGHT EXTENSION ASSEMBLY	TM 10-8340-224-13	8
CONTAINER ASSEMBLY, STORAGE	TM 10-8340-224-13	2
LAMP, FLUORESCENT	TM 10-8340-224-13	2
FUSE HOLDER, EXTRACTOR POST	TM 10-8340-224-13	2
<b>TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE XIX, 32 FT, GREEN</b>	TM 10-8340-224-13	1
PIN, TENT, WOOD, 24 IN	TM 10-8340-224-13	30
FRAME, END SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	1
HEADER ASSEMBLY	TM 10-8340-224-13	2
PURLIN ASSEMBLY	TM 10-8340-224-13	5
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	2
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	1
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	2
FRAME, WINDOW SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	2
PURLIN ASSEMBLY	TM 10-8340-224-13	10
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	2
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	2
FRAME, DOOR SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	1
HEADER ASSEMBLY	TM 10-8340-224-13	1
PURLIN ASSEMBLY	TM 10-8340-224-13	3
PURLIN ASSEMBLY, DOOR SILL	TM 10-8340-224-13	2
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	1
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	2
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	1
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	1
FRAME ASSEMBLY, VESTIBULE, TEMPER	TM 10-8340-224-13	6
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	24
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	6
END SECTION, TEMPER	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	4
LINE, TENT	TM 10-8340-224-13	4
DOOR SECTION, DESERT/TROPICAL, TEMPER	TM 10-8340-224-13	1
SLIP, TENT LINE	TM 10-8340-224-13	8
LINE, TENT	TM 10-8340-224-13	8
FLY, TENT, 16 FT, TEMPER	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	12

Table 1. Inventory List for Laundry Tent Kit Type 2A – Continued.

Subcomponent	Where Listed/Illustrated	Qty
LINE, TENT	TM 10-8340-224-13	12
COVER, TENT, TEMPER	TM 10-8340-224-13	4
WINDOW SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	3
SLIP, TENT LINE	TM 10-8340-224-13	12
LINE, TENT	TM 10-8340-224-13	12
LINER, END SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	1
LINER, END SECTION, DESERT/TROPICAL, TEMPER	TM 10-8340-224-13	1
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	2
FLOOR, 8 FT, SINGLE PLY, TEMPER	TM 10-8340-224-13	4
VESTIBULE WITH DOOR, TEMPER	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	8
VESTIBULE TENT SECTION	TM 10-8340-224-13	2
LINE, TENT	TM 10-8340-224-13	8
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	2
FLOOR, VESTIBULE, SINGLE PLY, TEMPER	TM 10-8340-224-13	2
CONTAINER, VESTIBULE, TEMPER	TM 10-8340-224-13	2
PLENUM, END WALL, 16 FT, TEMPER	TM 10-8340-224-13	1
PLENUM, EXTENDABLE, 16 FT, TEMPER	TM 10-8340-224-13	1
DOOR, DOUBLE BUMP-THROUGH, CL A, GREEN	TM 10-8340-224-13	0
PIN, TENT, STEEL, 12 IN	TM 10-8340-224-13	50
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	4
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-13	WP 0087 00, BII, Item 2	1
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0087 00, BII, Item 1	1
<b>TANK, FABRIC, COLLAPSIBLE, SELF-SUPPORTING, WATER STORAGE, 3,000 GALLON NSN 5430-01-470-7380 (ALTERNATE NSN 5430-01-469-8744 IS AUTHORIZED)</b>	WP 0087 00, COEI, Item 37	2
GROUND CLOTH, 3,000 GALLON	TM 10-5430-237-12&P	2
TANK, FABRIC, 3,000 GALLON	TM 10-5430-237-12&P	2
VALVE ASSEMBLY, BALL, 2 IN	TM 10-5430-237-12&P	4
<b>TANK REPAIR KIT, COLLAPSIBLE DRUM, TYPE I</b>	TM 10-5430-237-12&P	2
PATCH, MECHANICAL, 3 IN	TM 10-5430-237-12&P	4
PATCH, MECHANICAL, 5 IN	TM 10-5430-237-12&P	2
PATCH, MECHANICAL, 7-1/2 IN	TM 10-5430-237-12&P	2
PLUG, WOOD, 5 IN	TM 10-5430-237-12&P	2
PLUG, WOOD, 3 IN	TM 10-5430-237-12&P	3
SHEET, TECHNICAL, REPAIR KIT	TM 10-5430-237-12&P	1
GASKET	TM 10-5430-237-12&P	2
PROTECTOR, BALL VALVE	TM 10-5430-237-12&P	2
PLUG, WOOD	TM 10-5430-237-12&P	6
TECHNICAL MANUAL, TANK, FABRIC, 3,000-GAL, WATER TM 10-5430-237-12&P	WP 0087 00, BII, Item 4	2
<b>ELECTRICAL FEEDER SYSTEM, PDISE M100</b>	WP 0087 00, COEI, Item 17	1
STRAP, CABLE CARRYING	TM 9-6150-226-13	8
CABLE, PIGTAIL, 100A, 4 FT LONG	TM 9-6150-226-13	1
CABLE ASSEMBLY, SERVICE, 100A, 50 FT LONG	TM 9-6150-226-13	2
ELECTRICAL FEEDER CENTER, 100A	TM 9-6150-226-13	1
TECHNICAL MANUAL, PDISE TM 9-6150-226-13	WP 0087 00, BII, Item 3	1
<b>CLEANING EQUIPMENT AND TOOLS</b>		
MOP HEAD	WP 0087 00, COEI, Item 25	1
MOP HANDLE	WP 0087 00, COEI, Item 24	1
WRINGER, MOP, SIZE-SMALL, TYPE-GEAR & RACK	WP 0087 00, COEI, Item 4	1
BUCKET, MOP, STEEL, OVAL, 16 QUART, W/ CASTERS	WP 0087 00, COEI, Item 2	1
SHOVEL, ROUND POINT, D HANDLE	WP 0087 00, COEI, Item 33	2
BROOM, UPRIGHT	WP 0087 00, COEI, Item 1	1

**Table 1. Inventory List for Laundry Tent Kit Type 2A – Continued.**

Subcomponent	Where Listed/Illustrated	Qty
SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG	WP 0087 00, COEI, Item 34	1
NOZZLE, GARDEN HOSE	WP 0087 00, COEI, Item 26	1
MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD	WP 0087 00, COEI, Item 22	1
<b>OTHER ITEMS</b>		
PIN, TENT, WOOD, 24 IN	WP 0087 00, COEI, Item 28	30
PIN, TENT, STEEL, 18 IN	WP 0087 00, COEI, Item 41	60
CONTAINER, TENT PIN, TEMPER	WP 0087 00, COEI, Item 42	4
FLOOR MAT, ALTERED ITEM	WP 0087 00, COEI, Item 19	2
TABLE, FOLDING, 6 FT, ALUMINUM	WP 0087 00, COEI, Item 36	4
TEMPER CONVENIENCE OUTLET ASSEMBLY, 3 DROP	WP 0087 00, COEI, Item 8	2
FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND	WP 0087 00, COEI, Item 18	1
PIN, LAUNDRY, 5 IN, QTY-100	WP 0087 00, COEI, Item 28	3
TRUNK, LOCKER (TO BE USED WITH BILLETING)	WP 0087 00, COEI, Item 32	13
CHAIR, FOLDING, STEEL	WP 0087 00, COEI, Item 7	5
MESH BAGS, LAUNDRY	WP 0087 00, COEI, Item 23	20
HOSE ASSEMBLY, NONMETALLIC, GARDEN	WP 0087 00, COEI, Item 20	1
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG	WP 0087 00, COEI, Item 3	2

**Table 2. Inventory List for Laundry Tent Kit Type 2B.**

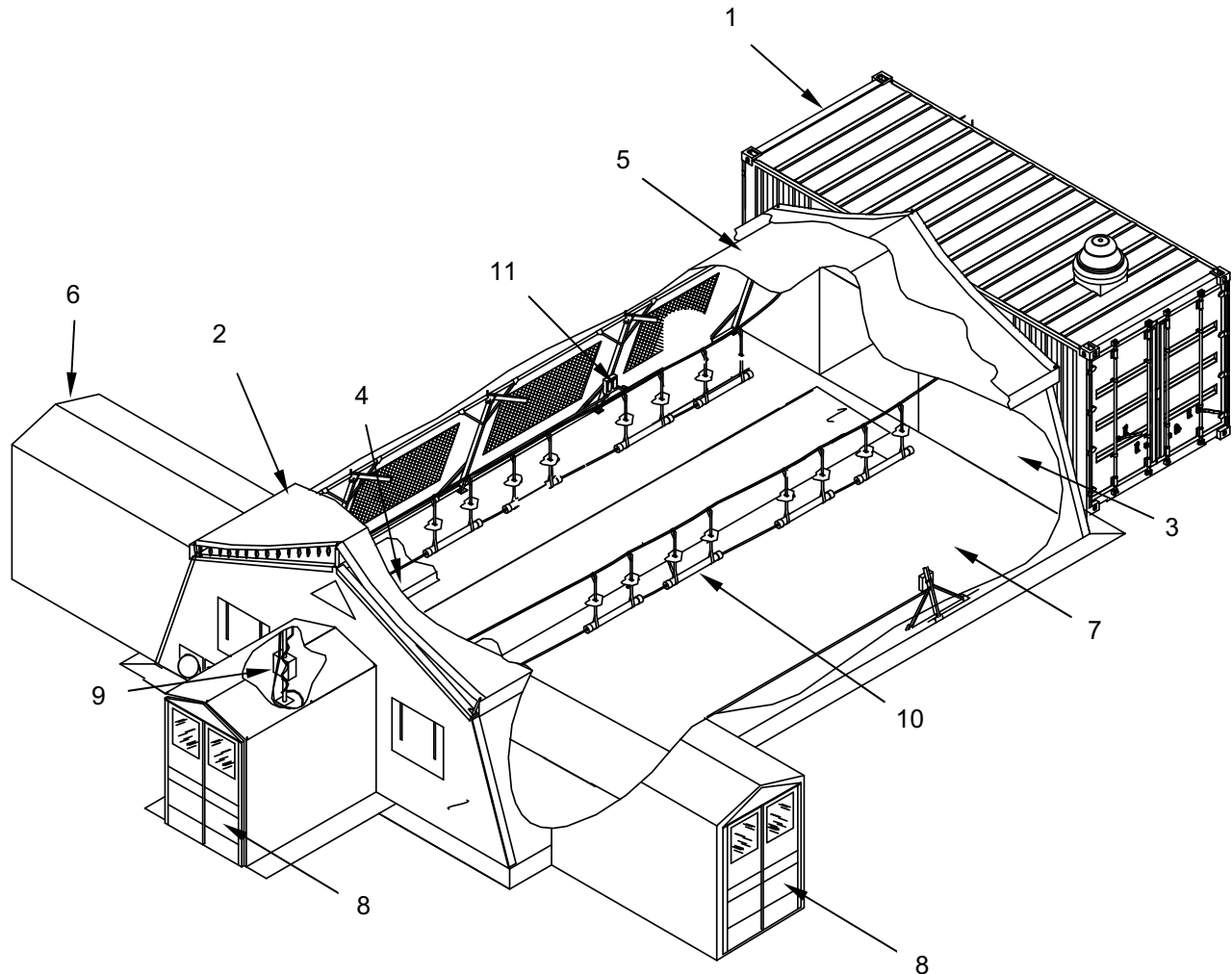
Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
<b>SEWAGE EJECTION PUMP, WASTE WATER EVACUATION</b>	TM 10-4630-206-12&P, or WP 0087 00, COEI, Item 00	1
COUPLING, CAM/GROOVED HOSE, FEMALE ADAPTER, 2 IN NPT MALE	TM 10-5419-206-23&P	3
COUPLING, CAM/GROOVED HOSE, FEMALE ADAPTER, 3 IN NPT MALE	TM 10-5419-206-23&P	2
DUST CAP, 2 IN	TM 10-5419-206-23&P	3
DUST CAP, 3 IN	TM 10-5419-206-23&P	2
TECHNICAL MANUAL, SEP TM 10-4630-206-12&P	WP 0087 00, BII, Item 5	1
<b>OTHER ITEMS</b>		
CABLE, PIGTAIL, 100A, 4 FT LONG (PART OF CBL)	TM 10-3510-225-13&P	3
CABLE ASSEMBLY, SERVICE, 100A, 50 FT (PART OF CBL)	TM 10-3510-225-13&P	6
RAMP, CONTAINERIZED BATCH LAUNDRY (PART OF CBL)	TM 10-3510-225-13&P	1
DOOR, DOUBLE BUMP-THROUGH, CL A, GREEN	WP 0087 00, COEI, Item 15	2
POWER CABLE ASSEMBLY, TEE, 20A	WP 0087 00, COEI, Item 29	2
POWER CABLE, CLASS L TO COMMERCIAL, 20 AMP	WP 0087 00, COEI, Item 30	1
CAN, ASH AND GARBAGE, 32 GALLON, STEEL, GALVANIZED	WP 0087 00, COEI, Item 6	3
COVER, CAN, ASH AND GARBAGE	WP 0087 00, COEI, Item 5	3
TRUCK, HAND, BOX, LAUNDRY, PLASTIC, 12 BUSHEL	WP 0087 00, COEI, Item 40	2
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG	WP 0087 00, COEI, Item 00	1
DRUM, SHIPPING AND STORAGE, STEEL, 55-GALLON	WP 0087 00, COEI, Item 00	1
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-13	WP 0087 00, BII, Item 2	1
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0087 00, BII, Item 1	1

### ASSEMBLY AND PREPARATION FOR USE OF CBL

Position and assemble the CBL (1) where indicated by staking points F and G (refer to WP 0022 00) and prepare for use as described in TM 10-3510-225-13&P.

### ASSEMBLY AND PREPARATION FOR USE OF TEMPER

Using TM 10-8340-224-13, erect the Type XIX TEMPER (2) shipped in TRICON 2A, in the position indicated by staking points B through E (Refer to WP 0022 00). Install the modified TEMPER end wall (boot wall) (3) (packed inside dryer #2 of CBL), end wall plenum (4), liner (5), vestibules (6), floor (7), bump-through doors (8), electrical distribution box (9), six convenience outlets (10) and six fluorescent lights (11).



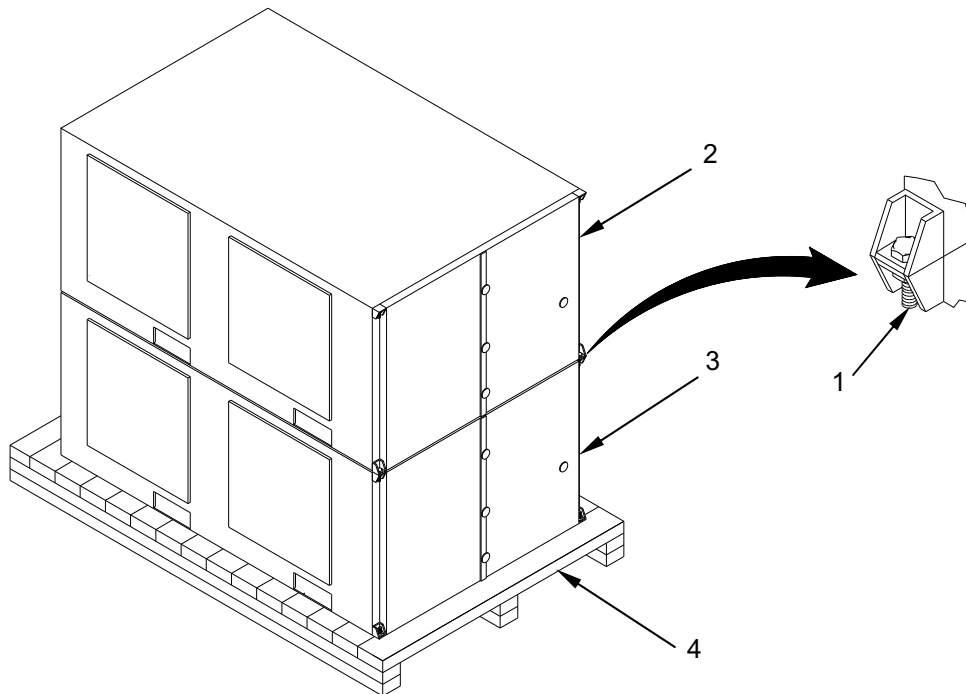
### ASSEMBLY AND PREPARATION OF ECU

#### NOTE

The following instructions for the assembly and preparation for use of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-6408) is at hand, assemble, install, operate, and maintain it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are at hand, assemble, install, operate, and maintain them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions furnished herein.

Installation and use of ECU is optional, or may be deferred. Use the following procedures when installing ECU.

1. Remove ECU pallet from TRICON 1B. Remove preservation materials.
2. Remove four nuts, bolts, and washers (1) that secure ECU (2) and (3) together.
3. Use forklift to lift top ECU (2) off lower ECU (3).
4. Install nuts, bolts, and washers (1) back onto lower ECU (3) for future use.
5. Leave pallet (4) attached to lower ECU (3).



Set up ECU as follows:

#### NOTE

Leaving pallet attached to ECU or using lumber or dunnage between ECU and ground will help to prevent corrosion during long deployments.

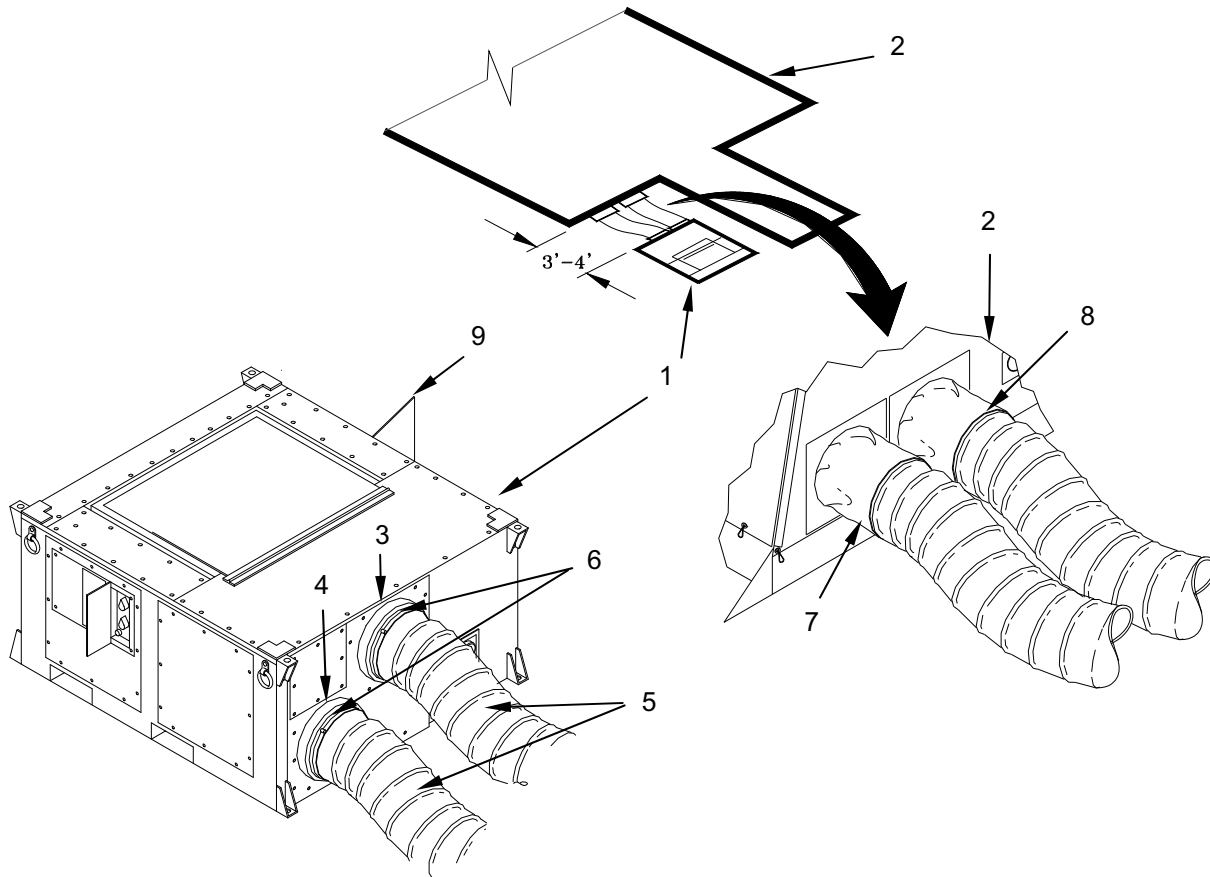
1. Obtain lumber or dunnage (several 2-inch x 4-inch pieces are sufficient) on which to set ECU if no pallet is attached.
2. Position each ECU on dunnage or pallet at prepared site (1), three to four-feet from end wall of TEMPER (2), with supply (3) and return (4) duct ports facing TEMPER (2).
3. Remove ducts (5) from ECU by opening hinged panel on rear storage compartment (9). Retrieve ducts and racks. Remove ducts from racks and store racks in condenser compartment.



**NOTE**

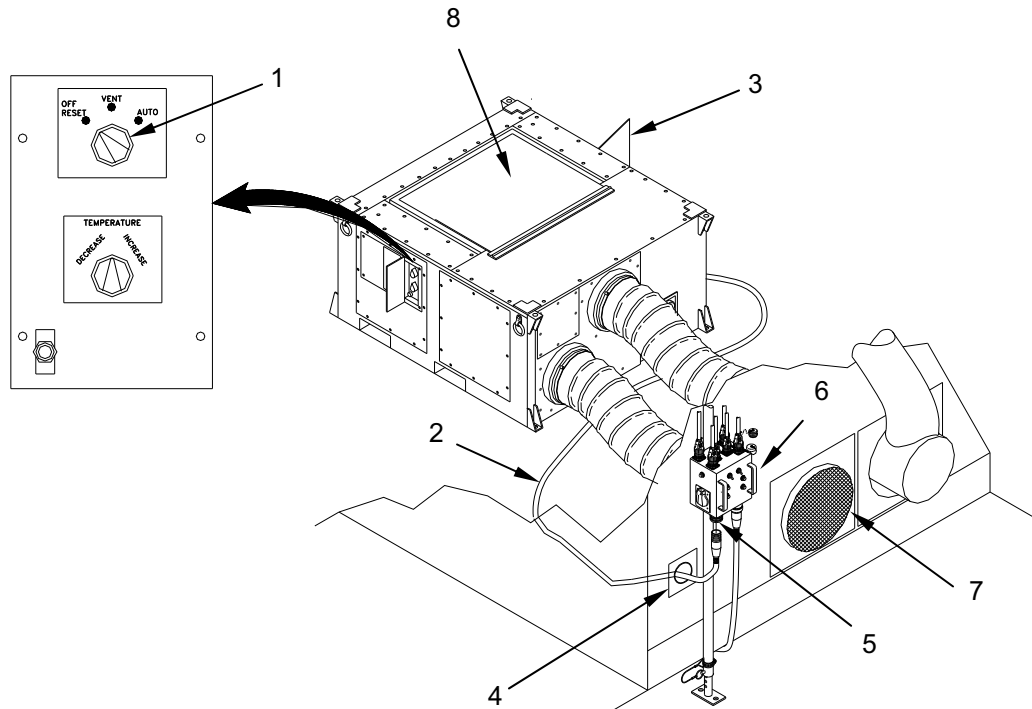
Observe that airflow directional arrow on ducts are facing in correct direction.

4. Place the 9-foot duct in the correct direction onto the supply (3) and the 7-foot duct to the return (4) flanges on the ECU. Tighten hose clamps (6) on flanges.
5. Attach ECU supply duct (3) to the TEMPER duct (7) that has plenum attached.
6. Attach ECU return duct (4) to the TEMPER duct (8) that does not have plenum attached.
7. Install the condenser drain hose.

**NOTE**

Ensure mode selector switch (1) is set to OFF-RESET position.

8. Remove ECU power cable (2) from condenser compartment door storage box (3).
9. Route ECU power cable (2) through TEMPER cable sock (4) or between end section and floor, and connect to POWER OUT (J2) receptacle (5) on TEMPER power distribution box (6). Connect dust caps together.
10. Install debris screen (7) on return duct.
11. Release and flip the condenser fan cover (8).
12. Ensure all doors are closed and secured.



## ASSEMBLY AND PREPARATION FOR USE OF LAUNDRY TENT EQUIPMENT

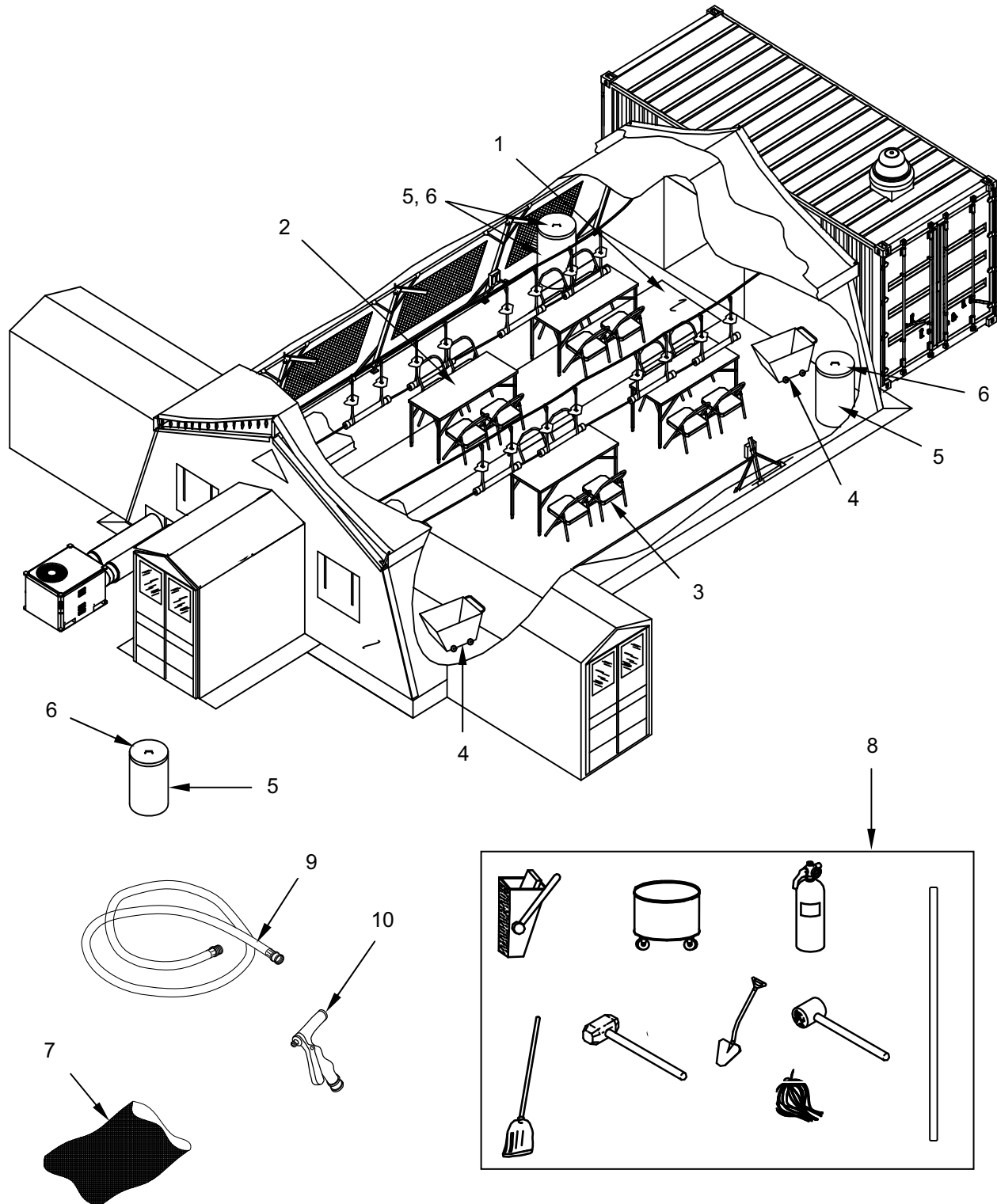
To assemble the TEMPER laundry folding tent equipment, proceed as follows:

### NOTE

The suggested layout of the laundry folding tent equipment shown below can be modified to suit the particular operation of the facility.

1. Retrieve one of the floor mats (1) shipped in TRICON 2A and lay it along the center aisle of the TEMPER as shown below.
2. Retrieve four, 6-foot folding tables (2) (shipped in TRICON 2A) and set up as shown below.
3. Retrieve sixteen folding chairs (3) (5 shipped in TRICON 2A, 11 shipped in TRICON 4C Shower ECU Kit) and set up as shown below.
4. Retrieve two laundry hand trucks (4) shipped in TRICON 2B and place them inside the TEMPER for use as needed.
5. Retrieve three, 32-Gallon ash and garbage cans (5) shipped in TRICON 2B. Place two inside TEMPER as shown. Position the third outside the TEMPER as shown below.
6. Retrieve three, 32-Gallon ash and garbage can covers (6) and place them on the garbage cans positioned in 5, above.
7. Retrieve laundry pins and mesh laundry bags (7) shipped in TRICON 2A. Place these items inside TEMPER for use as needed.
8. Retrieve cleaning equipment (8) consisting of a mop wringer, mop bucket, mop handle, mop head, and broom, as well as a fire extinguisher shipped in TRICON 2A and place the items inside the TEMPER for use as needed.

9. Retrieve TEMPER maintenance equipment (8) consisting of a shovel, wood mallet and a sledgehammer shipped in TRICON 2A and place the items inside the TEMPER for use as needed.
10. Retrieve the garden hose (9) and nozzle (10) shipped in TRICON 2A. Attach the nozzle to the hose and place in convenient location for use as needed.



**ASSEMBLY AND PREPARATION FOR USE OF LAUNDRY WASTEWATER COLLECTION**

FP CBL waste water equipment consisting of one hose assembly, QDISC, Cam-Lock 3-inch x 10-foot, F x F (1) has been connected to the waste water connection (2) on FP CBL water panel (3) and extended to survey stake 'H' (Waste water connection point) (4) as part of the FP CBL preparation for use per TM 10-3510-225-13&P.

**WARNING**

To prevent damage to laundry system hoses and cables, observe the following:  
When crossing hoses and cables, waste water is always placed below potable water, and potable water is always placed below electrical cables. Failure to observe this rule may result in death or serious injury by electrocution, or transmission of disease by potable water contamination.

**WARNING**

To prevent water contamination and resulting disease keep waste water components separate from potable water components.

**CAUTION**

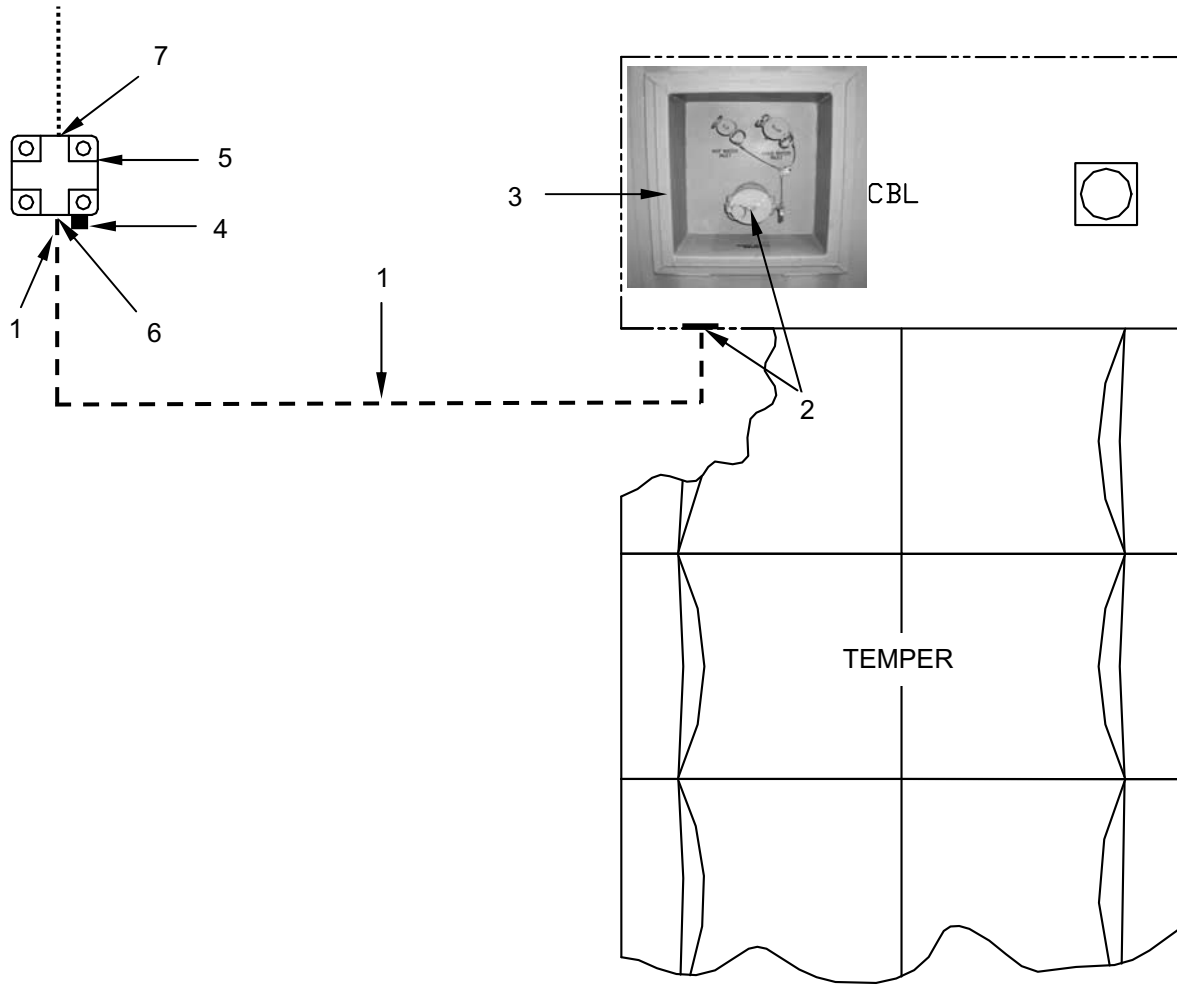
To prevent damage to hose couplings and electrical connectors, do not expose hose couplings and cable connectors to vehicular traffic. Lay hose and cable sections perpendicular across traffic lanes and areas used for vehicle parking or maneuvering.

**NOTE**

Under normal circumstances the Sewage Ejection Pump (SEP) shipped in TRICON 2B (Laundry Kit) will not be needed to evacuate waste water generated by the FP CBL. The SEP is provided for discretionary use in situations where the evacuation distance is beyond capacity of organic CBL evacuation pump, or the waste water collection system gravity flow is insufficient to evacuate waste water satisfactorily.

If the SEP is to be employed, proceed as follows; otherwise, proceed to step (3):

1. Position SEP (5) as shown, at survey stake 'H' (4) and prepare for operation as described in TM 10-4630-206-12&P.
2. Connect hose assembly, QDISC, Cam-Lock 3-inch x 10-foot, F x F (1) laid out previously, to SEP inlet port (6).
3. Waste water collection subsystem personnel will connect the laundry subsystem (FP CBL) to the FP waste water collection system at survey stake 'H' (4), connecting to either the SEP outlet (7) or the 3-inch x 10-foot waste water hose (1).



- - - - - Hose laid out as part of CBL setup (TM 10-3510-225-13&P)
- ..... Hose laid out/connected by waste water collection subsystem personnel

## ASSEMBLY AND PREPARATION FOR USE OF LAUNDRY POTABLE WATER SUPPLY

The potable water equipment as shown below has been assembled as part of the FP CBL preparation for use per TM 10-3510-225-13&P.



### **WARNING**



To prevent damage to laundry system hoses and cables, observe the following: When crossing hoses and cables, waste water is always placed below potable water, and potable water is always placed below electrical cables. Failure to observe this rule may result in death or serious injury by electrocution, or transmission of disease by potable water contamination.



### **WARNING**

To prevent water contamination and resulting disease keep waste water components separate from potable water components.

### **CAUTION**

To prevent damage to hose couplings and electrical connectors, do not expose hose couplings and cable connectors to vehicular traffic. Lay hose and cable sections perpendicular across traffic lanes and areas used for vehicle parking or maneuvering.

### **NOTE**

Under normal circumstances the Water Distribution Subsystem will distribute potable water through a centralized system of pipes and hoses to user facilities, including the laundry subsystem. When centralized potable water distribution is not available, an alternate source can be established using two 3,000-Gallon collapsible fabric tanks, shipped in TRICON 2A (Laundry Tent Kit). When this alternate system is used, a re-fill schedule must be established and managed by the by water distribution subsystem personnel to ensure a continuing supply of water.

When the alternate water source (3,000-Gallon Tanks) is to be employed, proceed as follows, otherwise, proceed to step (11):

### **NOTE**

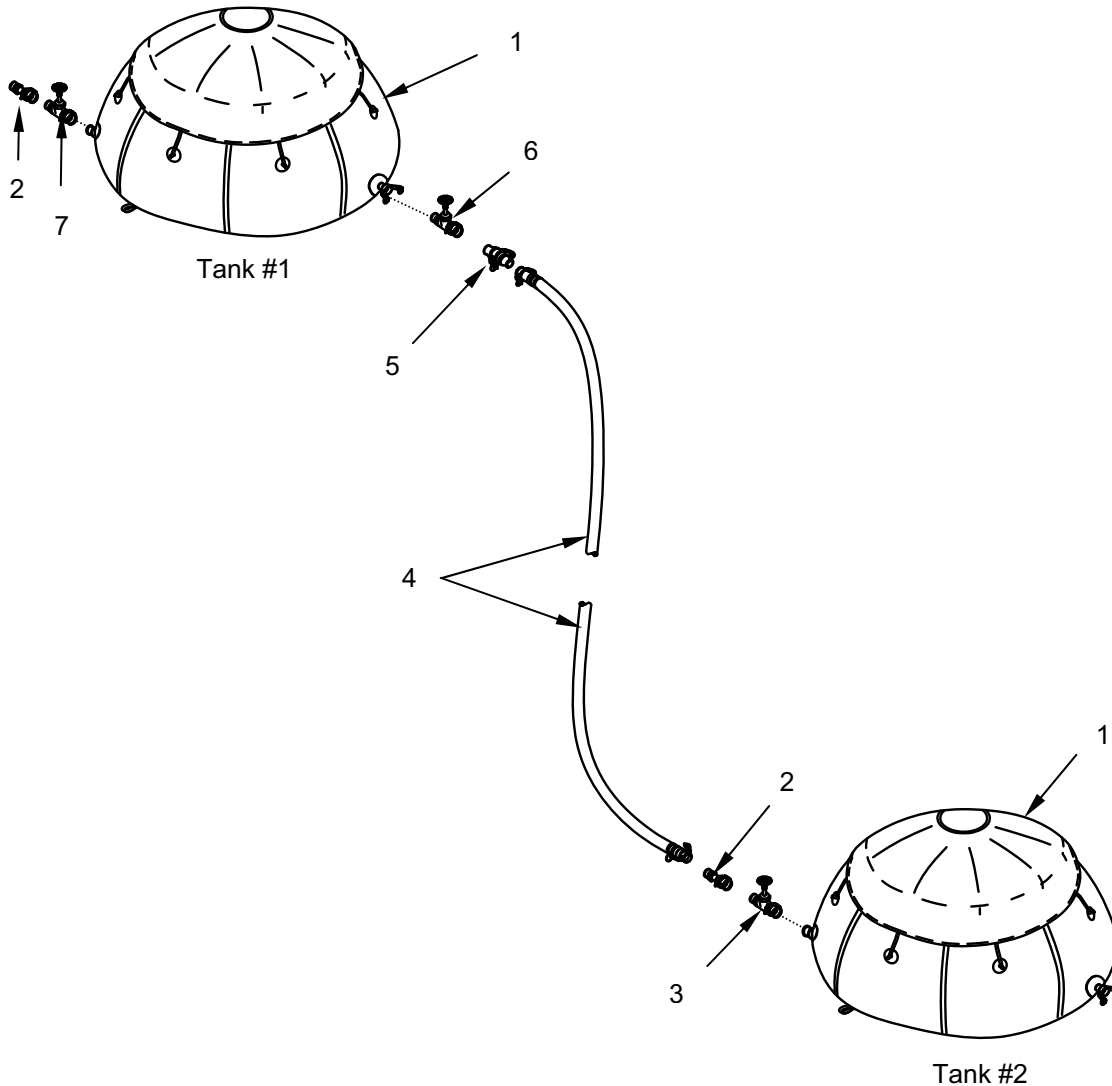
There are two, 2-inch fill/discharge fittings located at opposite ends of the tank. One end provides a female Cam-Lock coupling; the other end provides a male Cam-Lock coupling.

1. Using TM 10-5430-237-12&P assemble and prepare the two 3,000-Gallon tanks (1) shipped in TRICON 2A (Laundry Tent Kit) for use. Ensure 2-inch ball valves are installed on the two opposing fill/discharge ports of tank #1 and on the male coupling of tank #2.

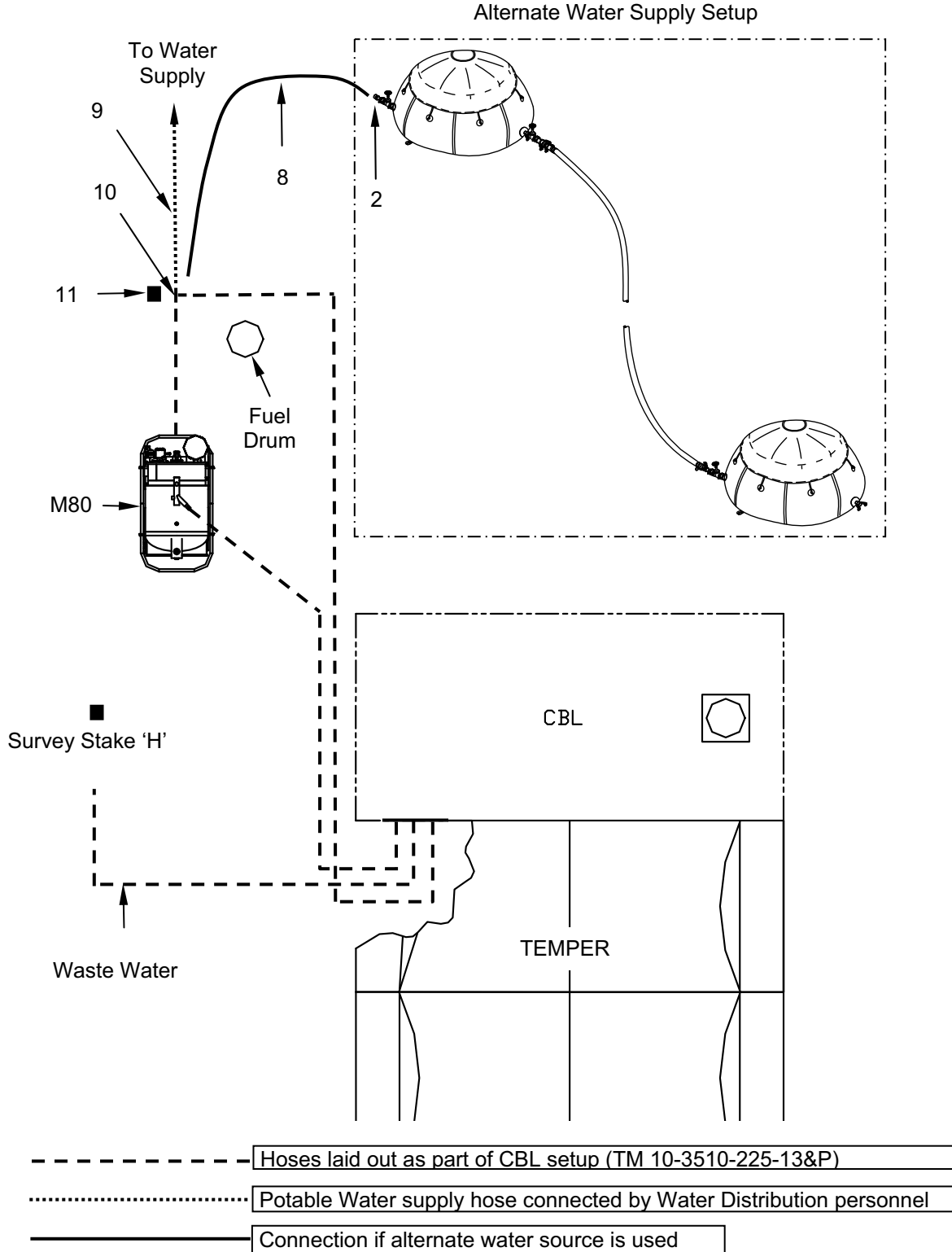
### **NOTE**

Locate the tanks so that they can be connected in tandem as shown, within the limits of hose lengths available as indicated. Also ensure that the tanks are accessible for re-filling by tanker.

2. Position tanks (1) as suggested below or in another suitable location.
3. Obtain two, 2-inch x 1½-inch F x M reducers from the Water Distribution and Plumbing System Support Package shipped in TRICON 11C and maintained by Administration Subsystem maintenance section.
4. Connect one of the reducers (2) obtained in 3. above to the 2-inch ball valve (3) on tank #2.
5. Obtain a 1½-inch x 1½-inch x 20-foot M x F potable water hose (4) from the tank connection kit shipped in TRICON 5A (Water Distribution Subsystem) and connect the female end of the hose to the reducer installed on tank #2, in step 4., above.
6. Obtain a 2-inch x 1½-inch M x F reducer (5) from the tank connection kit shipped in TRICON 5A (Water Distribution Subsystem) and connect it to female end of the 2-inch ball valve (6) on tank #1.
7. Connect the other female end of the hose (4) to the reducer installed on tank #1, in 6., above.
8. Connect the second of the reducers (2) obtained in 3., above to the male end of the 2-inch ball valve (7) on tank #1.
9. Obtain a 1½-inch x 1½-inch F x 20-foot potable water hose (5) from the tank connection kit shipped in TRICON 5A (Water Distribution Subsystem) and connect it to the male end of the 2-inch reducer installed in 7., above.



10. Obtain one 1½-inch x 20-foot F x F potable water hose (8) from the tank connection kit shipped in TRICON 5A (Water Distribution Subsystem) and connect it to the reducer (2) on tank #1.
11. Water Distribution Subsystem personnel will connect a 1½-inch potable water supply hose (9) to the Tee assembly (10) located at survey stake 'I' (11) and turn on water supply when notified that the laundry subsystem is ready for operation.





**ASSEMBLY AND PREPARATION FOR USE OF LAUNDRY POWER SUPPLY****WARNING**

Power to a Force Provider Module can be provide by a commercial source, or generated by either the MSPG, or MSPP. In each case, power will be supplied to the PDISE for distribution to the user. It is the responsibility of individual subsystem personnel to lay out and assemble the requisite cables to the PDISE for connection. Personnel of the Force Provider Company Facilities Support Section are responsible for facilitating power supply to the PDISE. Only qualified personnel must connect user cables to the PDISE and pigtails to the power source. Failure to observe this warning may result in severe injury or death by electrocution.

The electrical equipment organic to the CBL will be laid out and connected during the preparation for use of the CBL as described in TM 10-3510-225-13&P. This consists of the 100-A/50-foot service cables and pigtails connected to the dryer input panel as well as the 100-A/50-foot service cable(s) connected to the main electrical panel, and the 20-A power cable Tee Assembly.

Assemble the remaining laundry subsystem power supply equipment as follows:

**CAUTION**

Keep cables away from vehicle traffic. Damage to cables may result.

**NOTE**

The laundry subsystem (with the exception of the dryers which are powered through the separate dryer electrical panel located on the CBL) will be powered through the main electrical panel, also located on the CBL. Power to this panel will be supplied through the latrine subsystem PDISE M100, using the 100-A/50-foot service cable(s) furnished. The PDISE M100 shipped in TRICON 2A as part of the laundry subsystem will be used and retrieved by food service subsystem personnel.

1. Ensure circuit breakers in the CBL electrical panels (as shown in TM 10-3510-225-13&P) are OFF.
2. Locate the latrine subsystem PDISE-M100 (1) positioned at the power source control point (J). Open lid and set all circuit breakers to OFF.

**NOTE**

When assembling power group components, follow instructions for laying out cables from power source to point of use, then connecting cables from point-of-use back to power source. Male ends of cables always go toward source, while female ends of cables go toward point-of-use.

**NOTE**

In addition to the 100-A/50-foot service cables and 100-A/4-foot pigtails furnished as part of the CBL, three 60-A/100-foot power cables and a 20A Class L to commercial power cable are furnished to connect CBL equipment to the power source. In most cases, not all of these cables will be necessary to make power source connections. Use only the cables required to make the connections. Leave unused cables packed and store in TRICON.

3. Lay out two 60-A/100-foot power cables (2) from the J3 connector on the latrine subsystem PDISE-M100 (1) to the TEMPER distribution box (3).
4. Lay out the 20-A power cable Tee assembly (4) from the main electrical panel (5) so that the two leads are situated next to the potable water pump (6) and the M-80 water heater (7).

### Cable Connections

1. Set all circuit breakers on TEMPER power distribution box (3) to OFF. Connect the 100-ft/60-A power cable (2) to the TEMPER distribution box (3). Secure with lock rings. Connect dust caps.
2. Connect the remaining 60-A/100-foot power cables (2) together. Connect dust caps together.

To connect the laundry subsystem to power source, proceed as follows:

1. Connect the CBL power cables as described in TM 10-3510-225-13&P.
2. Connect the 100-ft/60-A power cable(s) (2) to the 60-A J3 connector (8) on the latrine subsystem PDISE-M100 (1). Connect dust caps.
3. Connect 20-A power cable Tee assembly (4) to the connector #2 (9) on the main electrical panel (5).
4. Connect leads of Tee cable (4) to potable water pump (6) and M-80 water heater (7).
5. Connect the SEP power cord (10), if used, to connector #3 (11) on the main electrical panel (5).
6. Connect ECU power cord (12), if used, to the TEMPER power distribution box (3).
7. Connect the 100-A/50-foot service cable(s) laid out as part of the assembly and preparation for use of the FP CBL to the J2 Connector (13) on the PDISE-M100 (1).

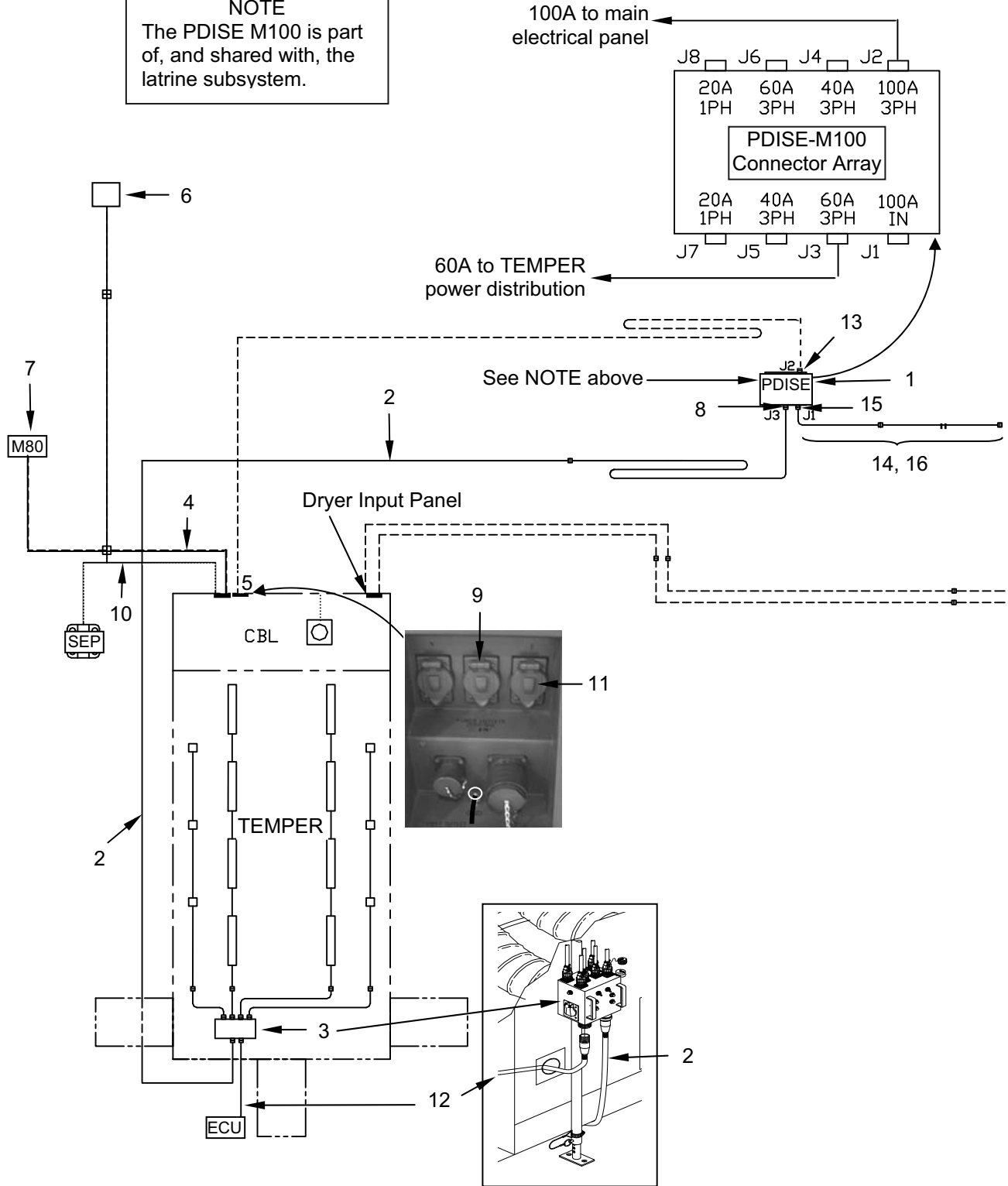


### WARNING

Only qualified personnel must connect pigtails to power source. Failure to observe this warning may result in electrocution, severe injury, or death.

8. In coordination with latrine subsystem, have qualified personnel connect 100A/50-foot cable (14) to J1 connector (15) on PDISE-M100 (1) and pigtail (16) to power source.
9. Once the power distribution system has been assembled, qualified personnel will connect the two 100-A/4-foot pigtails supplying power to the FP CBL dryer electrical panel (shown in TM 10-3510-225-13&P) and the 100-A/4-foot pigtail (2) supplying power to the PDISE-M100 (1) to a power source.
10. After power is supplied to the PDISE-M100 (1), set the laundry subsystem circuit breakers to ON in the following sequence:
  - a. Set breakers on TEMPER power distribution box (3) to ON.
  - b. Set CBL circuit breakers to ON (as shown in TM 10-3510-225-13&P).
  - c. Open the cover of the PDISE-M100 (1) and set applicable circuit breakers to ON.

**NOTE**  
 The PDISE M100 is part of, and shared with, the latrine subsystem.



- Cables laid out as part of CBL setup (TM 10-3510-225-13&P)
- Cables laid out as part of laundry subsystem setup
- ..... Cable required only if SEP is used

**OPERATING INSTRUCTIONS FOR LAUNDRY SUBSYSTEM**

Operate the laundry subsystem by following the procedures in the component technical manuals listed below.

**OPERATING PROCEDURES FOR CONTAINERIZED BATCH LAUNDRY**

Operate the CBL in accordance with TM 10-3510-225-13&P.

**OPERATING PROCEDURES FOR TEMPER**

Operate the TEMPER sorting tent in accordance with TM 10-8340-224-13,

**OPERATING PROCEDURES FOR SEP**

Operate the SEP in accordance with TM 10-4630-206-12&P.

**OPERATING PROCEDURES FOR 3,000-GALLON WATER TANK**

Operate the 3,000-Gallon Water Tank in accordance with TM 10-5430-237-12&P.

**OPERATING PROCEDURES FOR M80 WATER HEATER**

Operate the M80 Water Heater in accordance with TM 10-4520-259-13&P.

**OPERATING PROCEDURES FOR PDISE M100**

Operate the PDISE M100 in accordance with TM 9-6150-226-13.

**OPERATING PROCEDURES FOR ECU****NOTE**

If ECU Model AH-54 (NSN 4120-01-283-6408) is at hand, operate it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are used, operate them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions furnished here.

**Initial Adjustments and Checks**

1. Ensure power cable has been connected to a 208/230-v, 3 phase, 50/60-Hz power source.
2. Inspect all covers, panels, grilles, and screens for loose mounting, obstructions, or shipping damage. Report damage to supervisor.

### Operation in Ventilate Mode

1. Turn mode selector switch (1) to VENT position.

#### **NOTE**

When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

2. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

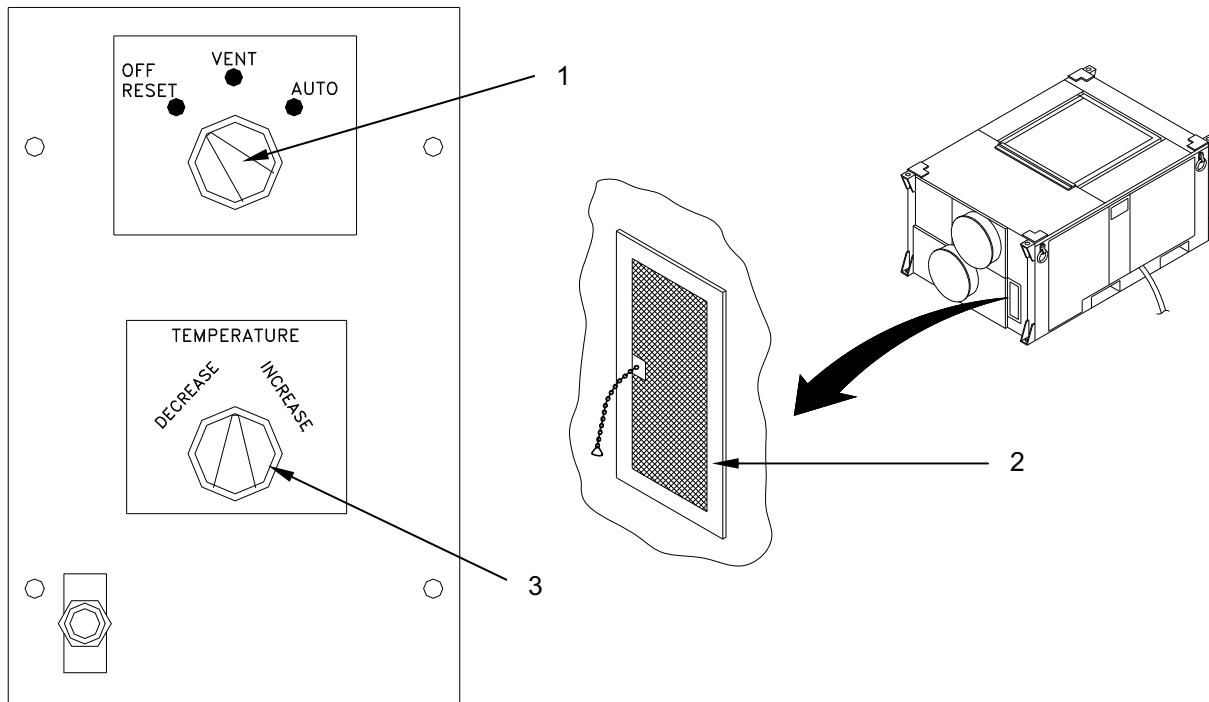
### Operation in Automatic Mode

#### **CAUTION**

Compressor can be damaged if started with liquid refrigerant in crankcase. Power must be connected to ECU for a period of not less than 5 hours before starting in automatic mode.

#### **CAUTION**

Do not operate the ECU in the automatic mode for cooling when the outside air temperature is below 50 °F. Under these conditions, operate in the ventilate mode and admit fresh air as required to maintain desired temperature in the conditioned space.



1. Turn mode selector switch (1) to AUTOMATIC position.
2. Turn TEMPERATURE control (3) toward DECREASE or INCREASE as necessary to adjust and maintain the desired temperature in the conditioned space. When adjusting the TEMPERATURE control, the ECU must be given adequate time to change the temperature in the conditioned space before making additional adjustments. The temperature control has a range of 40 °F to 90 °F (5 °C to 32 °C) with the mid-point being approximately 65 °F (18 °C).

### NOTE

When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened slightly to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

3. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

### Shutdown

Turn mode selector (1) to the OFF/RESET position.

### END OF WORK PACKAGE

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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS - LATRINE SUBSYSTEM**

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**GENERAL**

This WP contains operating procedures for the latrine subsystem. Procedures for the operation of the latrine subsystem in the MSCW Configuration is presented in WP 0038 00.

Before assembly and preparation for use of the latrine subsystem, the Force Provider module site selection, planning, preparation, staking and staging of the two latrine sites must be completed. TRICON 3B must be staged as described in WP 0022 00.

The latrine subsystem requires connection to a power source, as well as the water distribution subsystem, to become operational. A method of blackwater collection must also be established. This can be accomplished through a municipal disposal system connection, or collection using the Waste Water Evacuation Tank Trailer (WWET/T) (as shown in Wastewater Evacuation in this WP).

**SCOPE**

Assembly and preparation for use of the latrine subsystem before operation consists of the following:

- Unpacking and inventory of latrine equipment in TRICONS 3B.
- Assembly and preparation for use of Containerized Latrines (CL) (ISO Containers 3A (4)) and associated equipment in accordance with TM 10-4510-209-13&P.
- Preparation for use of the WWET/T in accordance with TM 10-4630-207-13&P.

**UNPACKING AND INVENTORY**

Unpack and inventory latrine subsystem components using Table 1 of this WP and TM 10-4510-209-13&P.

Latrine equipment is packed in the following container types and quantities:

Four CLS ISO Type 3A (Refer to TM 10-4510-209-13&P)  
Two TRICON Type 3B (Latrine ECU Kit)

Refer to WP 0038 00 for location and disposition of MSCW equipment to be used with the latrine subsystem.

In addition to container contents, two each WWET/T are furnished. They are used to evacuate accumulated blackwater from each latrine. When the latrines are connected directly to a municipal sewer system or when commercial evacuation is arranged, the WWET/T are not needed.

To unpack the equipment, proceed as follows:

1. Open container 3B and check its contents against Table 1 (the container type is stenciled on the container door as illustrated in WP 0021 00).
2. Open the CLS ISO containers 3A and check their contents against TM 10-4510-209-13&P.

**NOTE**

ECUs and associated components shipped in TRICON 3B are not required for operation of the latrine subsystem. These are used with the laundry subsystem, but should remain packed until needed.

3. Remove items from the container and set it aside, where other equipment is not positioned.

4. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.

**Table 1. Inventory List for Latrine ECU Kit TRICON Type 3B.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
<b>ELECTRICAL FEEDER SYSTEM, PDISE M100</b>	WP 0088 00, COEI, Item 5	1
STRAP, CABLE CARRYING	TM 9-6150-226-13	8
CABLE, PIGTAIL, 100A, 4 FT LONG	TM 9-6150-226-13	1
CABLE ASSEMBLY, SERVICE, 100A, 50 FT LONG	TM 9-6150-226-13	2
ELECTRICAL FEEDER CENTER, 100A	TM 9-6150-226-13	1
TECHNICAL MANUAL, PDISE TM 9-6150-226-13	WP 0088 00, BII, Item 2	1
<b>FLOODLIGHTS</b>		
TRIPOD FLOODLIGHT, 1000W	WP 0088 00, COEI, Item 8	1
TRIPOD FLOODLIGHT, 2000W	WP 0088 00, COEI, Item 9	1
EXTENSION CORD, 50 FT, #12 AWG/3	WP 0088 00, COEI, Item 6	2
GLOVE, INSERT, COTTON	WP 0088 00, COEI, Item 7	1
<b>OTHER ITEMS</b>		
TEE ASSEMBLY, 1-1/2 IN FC X FC X FC, WATER	WP 0088 00, COEI, Item 17	1
TRUNK, LOCKER	WP 0088 00, COEI, Item 10	12
PAPER, TOILET TISSUE (ROLL), BOX, WHITE, SINGLE PLY	WP 0088 00, COEI, Item 15	5
CHAIR, FOLDING, STEEL	WP 0088 00, COEI, Item 3	15
WRENCH, ADJUSTABLE, 10-1/2 IN LONG	WP 0088 00, COEI, Item 14	1
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG	WP 0088 00, COEI, Item 16	2
GASKET, COUPLING HALF, QDISC, CAM LOCK, 4 IN	WP 0088 00, COEI, Item 18	2
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-13	WP 0088 00, BII, Item 5	1
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0088 00, BII, Item 4	1
<b>FOR USE WITH LAUNDRY SUBSYSTEM:</b>		
<b>AIR CONDITIONER ASSY, 54 K BTUH, 208V, 3 PHASE, 50/60 HZ, HORIZONTAL</b>	TM 10-5419-206-23P	2
COVER, DUCT	TM 10-5419-206-23P	4
DUCT HOLDER - 7 FT	TM 10-5419-206-23P	2
DUCT HOLDER - 9 FT	TM 10-5419-206-23P	2
DUCT, FLEXIBLE - 7 FT	TM 10-5419-206-23P	2
DUCT, FLEXIBLE - 9 FT	TM 10-5419-206-23P	2
PULLEY BUSHING (50HZ OPERATION)	TM 10-5419-206-23P	2
PULLEY (50HZ OPERATION)	TM 10-5419-206-23P	2
DEBRIS SCREEN, AIR CONDITIONER DUCT	TM 10-5419-206-23P	2
HOSE ADAPTER, DRAIN	TM 10-5419-206-23P	4
TUBING, SILICONE, 15 FT	TM 10-5419-206-23P	4
TECHNICAL MANUAL, AIR CONDITIONER, 54 K BTUH	TM 10-5419-206-23P	2



## SYSTEM SUPPORT PACKAGE

A System Support Package (SSP), Latrine 9-1-0675-2 (81337) is provided with each of the four Containerized Latrine ISO Containers (3A). The SSP consist of a collection of spare/repair parts intended to sustain operation of each latrine for a period of 30 Days. It is recommended that these assets be placed under the control of the Administrative Subsystem for use by the Force Provider Company Facilities Support Section when performing maintenance and repair of latrine systems and equipment.

## ASSEMBLY AND PREPARATION FOR USE OF CONTAINERIZED LATRINE

Assemble the Containerized Latrine and prepare for use as described in TM 10-4510-209-13&P.

## ASSEMBLY AND PREPARATION FOR USE OF LATRINE POWER SUPPLY

One latrine site shares a power group with a shower site and the laundry subsystem. The second latrine site shares a power group with a shower site and administration subsystem.



### **WARNING**

Power to a Force Provider Module can be provided by a commercial source, or generated by either the MSPG, or MSPP. In each case, power will be supplied to the PDISE for distribution to the user. It is the responsibility of individual subsystem personnel to lay out and assemble the requisite cables to the PDISE for connection. Personnel of the Force Provider Company Facilities Support Section are responsible for facilitating power supply to the PDISE. Only qualified personnel must connect user cables to the PDISE and pigtails to the power source. Failure to observe this warning may result in severe injury or death by electrocution.

Assemble the power supply equipment for each latrine site as follows:

1. Locate and position one PDISE-M100, (1) at the power source control point (Refer to Latrine Subsystem staking diagram WP 0022 00) with the J1 Input connector towards the power source.

### **CAUTION**

Keep cables away from vehicle traffic. Damage to cables may result.

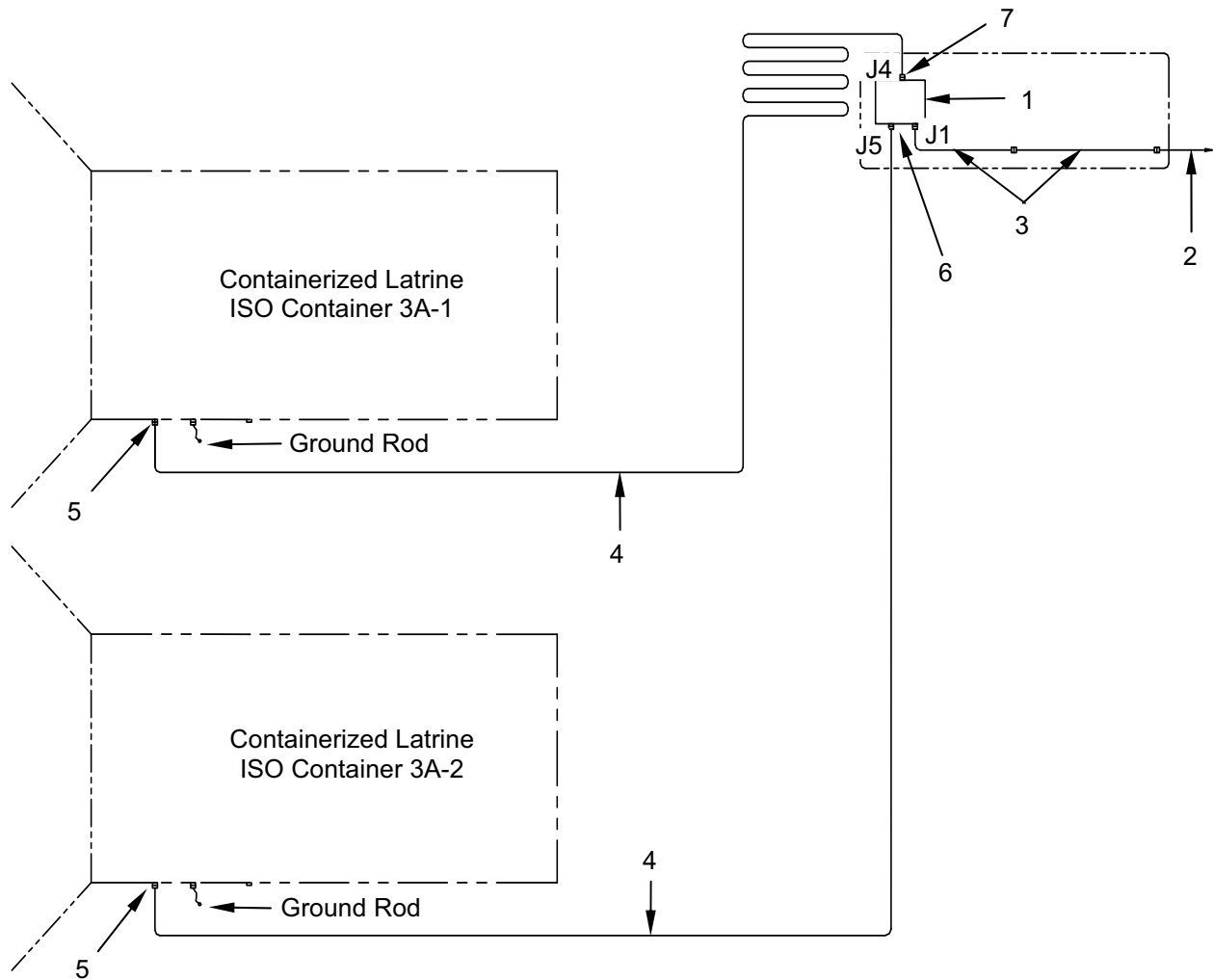
### **NOTE**

When assembling power group components, follow procedures for laying out cables from power source out to point of use, then connecting cables from point-of-use back to power source. Male ends of cables always go toward power source.

2. Locate and position a 100-A/4-foot pigtail (2) and two 100-A/50-foot service cables (3) on the power source (left) side of the PDISE-M100 (1). These cables will be laid out and connected to the PDISE-M100 (1) and power source (2) by facilities support section personnel.
3. Locate and lay out one 60-A/100-foot power cable (4) from the CL ISO power panel (5) on each latrine (Female end of cable) to the PDISE-M100 (1).

To make electrical connections from CL to PDISE, proceed as follows:

1. Insert female end of 60-A/100-foot power cable (4) firmly into POWER IN receptacle of the CL ISO power panel (5) and secure with lock ring. Connect dust caps together.
2. Ensure all circuit breakers in PDISE M100 (1) are set to OFF position.
3. Connect one 60-A/100-foot power cable (4) from one latrine to the J5 connector (6) on the PDISE M100 (1) and the second 100-foot/60 A power cable from the second latrine to the J4 connector (7).



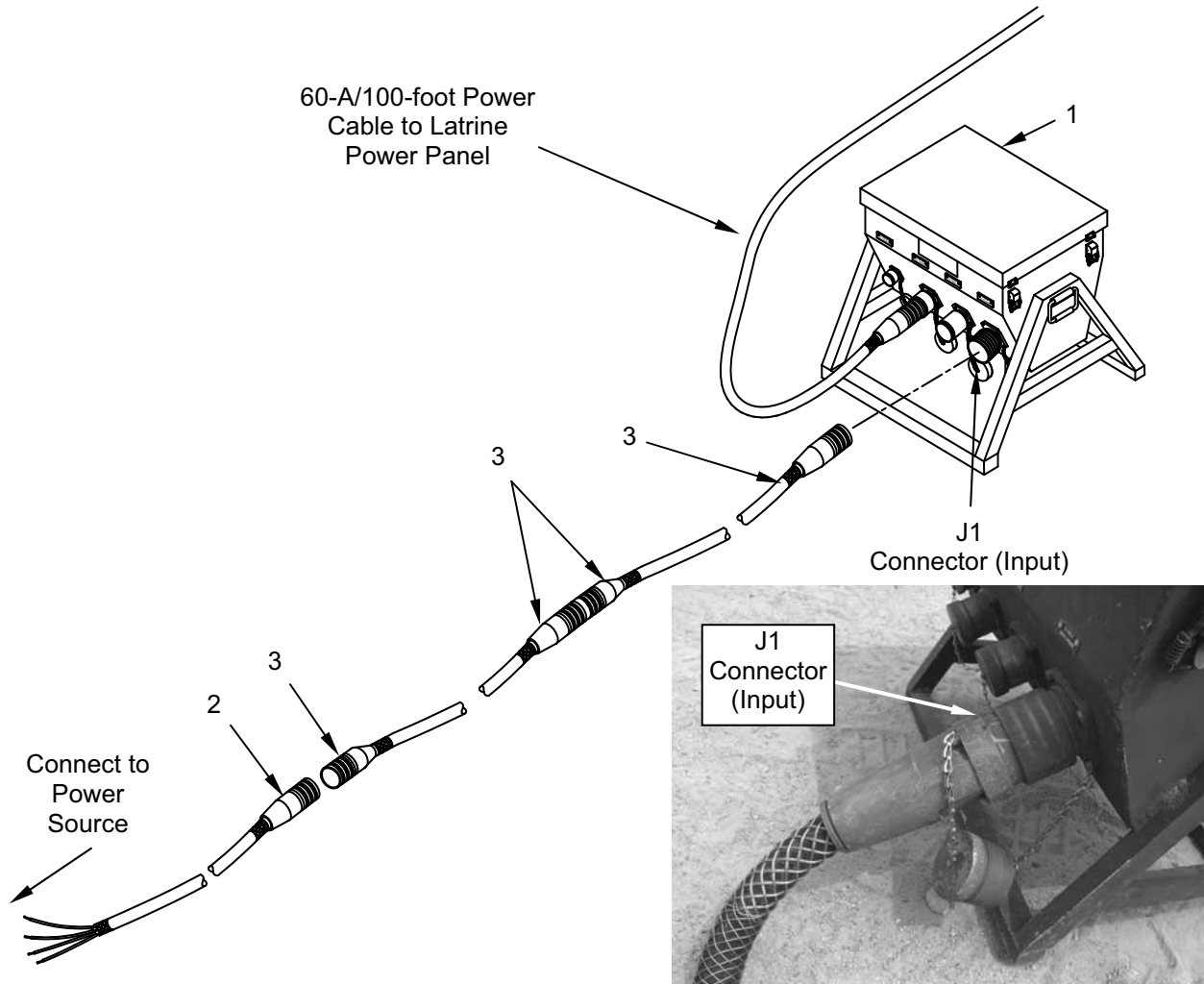
To connect service cables and pigtail from PDISE-M100 to power source, proceed as follows:



**WARNING**

Only qualified personnel must connect service cables to PDISE-M100 and pigtails to power source. Failure to observe this warning may result in severe injury or death by electrocution.

4. Connect 100-A/50-foot service cable (3) to the J1, 100-A Input connector on the PDISE-M100 (1) and secure with lock rings. Connect dust caps together.
5. Connect a second 100-A/50-foot service cable (3) to the first. Connect dust caps together and secure with lock rings.
6. Connect a 100-A/4-foot pigtail (2) to each of the three assembled pairs of 100-A/50-foot service cables (3) and secure with lock rings. Connect dust caps together.
7. Once the power distribution system has been established, a qualified technician will connect the 100-A/4-foot pigtail (2) to the power source.

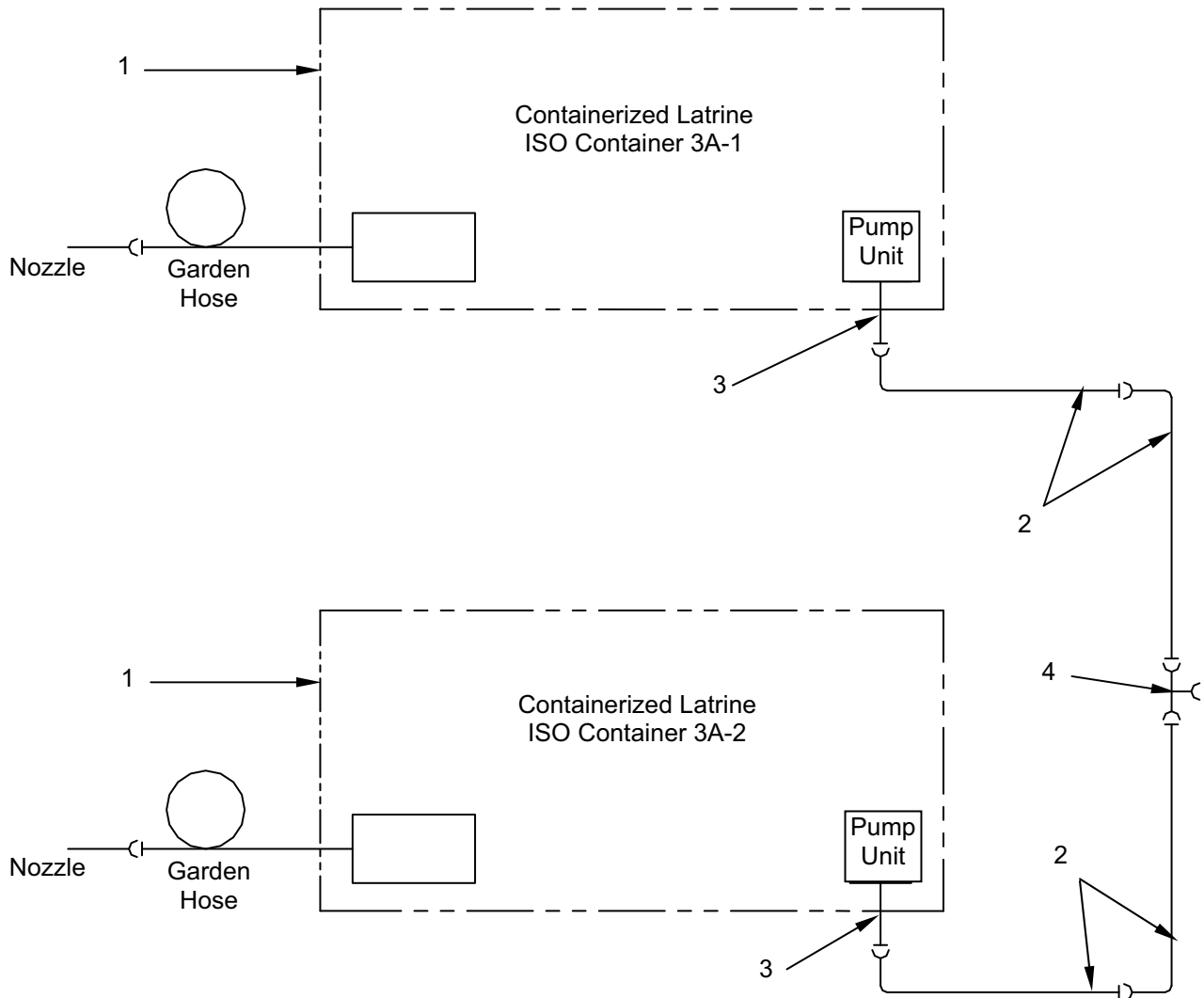


**ASSEMBLY AND PREPARATION FOR USE OF WATER SUPPLY EQUIPMENT**

Proceed as follows to connect the potable water supply:

1. For each latrine (1) locate and connect together two each 1½-inch x 20-foot hoses (2).
2. Connect one pair of assembled hoses to the water inlet panel (3) on each latrine as described in TM 10-4510-209-13&P.

3. Lay out the assembled hoses from each of the containerized latrines to the 1½-inch FC x FC x FC Tee assembly (4) located at the potable water connection control point (as described in the Latrine Subsystem staking diagram WP 0022 00).
4. Connect each pair of 1½-inch x 20-foot hoses (2) to the 1½-inch FC x FC x FC Tee assembly (4).
5. Water Distribution Subsystem personnel will connect a 1½-inch water supply hose to the Tee assembly (4) and turn on the water supply.



**WASTEWATER EVACUATION**

Waste water can be evacuated using one of several alternatives:

1. Use of WWET/T. Two of these trailers are furnished with each FP Module. Their method of use and operating procedures are described in TM 10-4630-207-13&P.



### **WARNING**

When handling wastewater components, wear gloves to prevent serious illness due to contamination. Rinse and steam clean removed components before making repairs. Serious health problems may result from contaminated components.

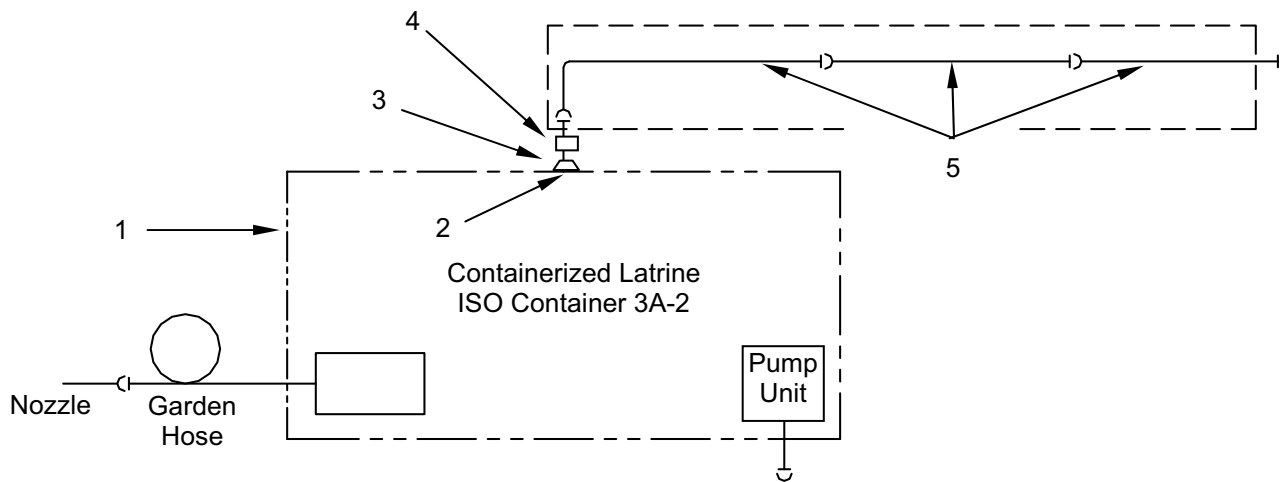
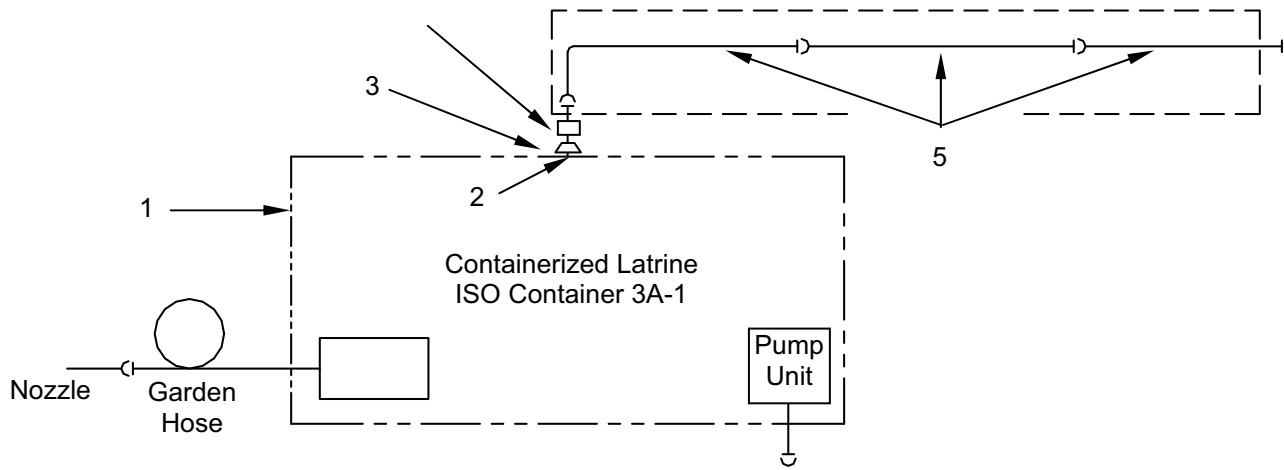
2. Connecting the latrine to the FP Wastewater Collection Subsystem. When this method is used, the wastewater collected must be considered as blackwater and evacuated as such from the collection point. In addition, all wastewater collection system equipment in use must be handled by personnel using protective clothing similar to that specified in TM 10-4630-207-13&P and subjected to rigorous cleaning procedures (steam cleaning) prior to affecting repairs and/or repacking for shipment.

To connect the latrine (1) to the FP Wastewater Collection Subsystem, connect the following components (shipped in each Containerized Latrine ISO Container 3A) to the latrine blackwater evacuation port (2) in the sequence listed:

- a. Nipple, Brass 4-inch x 6-inch M X M Threaded Ends, Blackwater (3)
- b. Valve Assembly, Ball, QDISC, 4-inch FC x NPT (4)
- c. Hose Assembly, Blackwater QDISC, CAM LOCK 4-inch x 20-foot, M x F (5) (3 Each)

Additional equipment to connect this assembly directly to the 4-inch main wastewater collection pipe is available in the Wastewater Collection Subsystem.

3. Connecting the latrine directly to a municipal sewer system. This is facilitated in the same manner as described in 2, above, however, instead of connecting to the wastewater collection system, the assembled 4-inch x 20-foot hoses are connected directly to a designated municipal sewer system. Additional equipment to facilitate the connection is available in the Wastewater Collection Subsystem.



**OPERATING INSTRUCTIONS FOR LATRINE SUBSYSTEM**

Operate the latrine subsystem by following the procedures in the component technical manuals listed below.

**OPERATING PROCEDURES FOR CLS**

Assemble CL and prepare for use as described in TM 10-4510-209-13&P.

**OPERATING PROCEDURES FOR WWET/T**

Operate the WWET/T as described in TM 10-4630-207-13&P.

**OPERATING PROCEDURES FOR PDISE M-100**

Operate the PDISE in accordance with TM 9-6150-226-13.

**END OF WORK PACKAGE**

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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS - SHOWER SUBSYSTEM**

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**GENERAL**

This WP contains operating procedures for the shower subsystem. Procedures for the operation of the shower subsystem in the MSCW Configuration are presented in WP 0038 00.

Before assembly and preparation for use of the shower subsystem, the FP module site selection, planning, preparation, staking and staging of the two shower sites must be completed. TRICON 4B, 4C, 4D, and 4E must be staged as described in WP 0022 00.

The shower subsystem requires connection to a power source, as well as the potable water distribution and graywater collection subsystems, to become operational.

**SCOPE**

Assembly and preparation for use of the shower subsystem before operation consists of the following:

- Unpacking and inventory of shower equipment in TRICONS 4B, 4C, 4D, and 4E.
- Assembly and preparation for use of the Containerized Shower System (NSN 4510-01-477-7763) in accordance with TM 10-4510-208-13&P.
- Installation of ECU.

**UNPACKING AND INVENTORY**

Unpack and inventory shower subsystem components using Table 1 through 4 of this WP and TM 10-4510-208-13&P.

Latrine equipment is packed in the following container types and quantities:

- Two CS ISO Type 4A Containerized Shower System (described in TM 10-4510-208-13&P)
- One TRICON Type 4B (Shower Tent Kit)
- One TRICON Type 4C (Shower ECU Kit)
- Two TRICON Type 4D (Shower Support Kit)
- One TRICON Type 4E (Shower Kit)

Refer to WP 0038 00 for location and disposition of MSCW equipment to be used with the shower subsystem.

To unpack the equipment, proceed as follows:

1. Open each container and check its contents against Tables 1 through 4, depending on the container type (the container type is stenciled on the container door as illustrated in WP 0021 00).
2. Open the Containerized Shower System ISO containers 4A and check their contents against TM 10-4510-208-13&P.
3. Remove each item from the container and set it aside, but not in the area where other equipment is to be positioned.
4. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.

Table 1. Inventory List for Shower Tent Kit TRICON Type 4B.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
<b>TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V</b>	WP 0089 00, COEI, Item 37	2
STAND, DISTRIBUTION BOX, TEMPER	WP 0089 00, COEI, Item 34	2
CABLE ASSEMBLY OUTLET TYPE III, 156 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY OUTLET TYPE III, 254 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY LIGHT TYPE III AND IV, 103 IN	TM 10-8340-224-13	2
CABLE ASSEMBLY LIGHT TYPE III AND IV, 173 IN	TM 10-8340-224-13	2
<b>SHOWER TENT KIT TEMPER ITEMS</b>		
PIN, TENT, WOOD, 24 IN	WP 0089 00, COEI, Item 44	30
PIN, TENT, STEEL, 18 IN	WP 0089 00, COEI, Item 38	120
FRAME, WINDOW SECTION, TEMPER (W/COVER)	WP 0089 00, COEI, Item 45	2
HEADER ASSEMBLY	TM 10-8340-224-13	2
PURLIN ASSEMBLY	TM 10-8340-224-13	10
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	2
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	2
FRAME, DOOR SECTION, TEMPER (W/COVER)	WP 0089 00, COEI, Item 47	2
HEADER ASSEMBLY	TM 10-8340-224-13	2
PURLIN ASSEMBLY	TM 10-8340-224-13	6
PURLIN ASSEMBLY, DOOR SILL	TM 10-8340-224-13	4
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	2
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	2
FRAME ASSEMBLY, VESTIBULE, TEMPER	WP 0089 00, COEI, Item 51	6
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	12
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	6
DOOR SECTION, DESERT/TROPICAL, TEMPER	WP 0089 00, COEI, Item 48	2
SLIP, TENT LINE	TM 10-8340-224-13	16
LINE, TENT	TM 10-8340-224-13	16
FLY, TENT, 16 FT, TEMPER	WP 0089 00, COEI, Item 54	2
SLIP, TENT LINE	TM 10-8340-224-13	12
LINE, TENT	TM 10-8340-224-13	12
COVER, TENT, TEMPER	WP 0089 00, COEI, Item 49	4
WINDOW SECTION, TEMPERATE, TEMPER	WP 0089 00, COEI, Item 46	2
SLIP, TENT LINE	TM 10-8340-224-13	8
LINE, TENT	TM 10-8340-224-13	8
LINER, END SECTION, DESERT/TROPICAL, TEMPER	WP 0089 00, COEI, Item 59	2
LINER, INTERMEDIATE, TEMPERATE, TEMPER	WP 0089 00, COEI, Item 58	4
FLOOR, 8 FT, SINGLE PLY, TEMPER	WP 0089 00, COEI, Item 50	4
VESTIBULE WITH DOOR, TEMPER	WP 0089 00, COEI, Item 52	2
SLIP, TENT LINE	TM 10-8340-224-13	8
VESTIBULE TENT SECTION	TM 10-8340-224-13	2
LINE, TENT	TM 10-8340-224-13	8
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	2
FLOOR, VESTIBULE, SINGLE PLY, TEMPER	WP 0089 00, COEI, Item 53	2
CONTAINER, VESTIBULE, TEMPER	WP 0089 00, COEI, Item 60	2
PLENUM, END WALL, 16 FT, TEMPER	WP 0089 00, COEI, Item 62	2



**Table 1. Inventory List for Shower Tent Kit TRICON Type 4B – Continued.**

Subcomponent	Where Listed/Illustrated	Qty
PLENUM, EXTENDABLE, 16 FT, TEMPER	WP 0089 00, COEI, Item 61	2
TEMPER CONVENIENCE OUTLET ASSEMBLY, 3 DROP	TM 10-8340-224-13	4
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-13	WP 0089 00, BII, Item 1	1
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0089 00, BII, ITEM 2	1
<b>CLEANING EQUIPMENT AND TOOLS</b>		
SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG	WP 0089 00, COEI, Item 32	1
WRINGER, MOP, SIZE-SMALL, TYPE-GEAR & RACK	WP 0089 00, COEI, Item 25	2
BUCKET, MOP, STEEL, OVAL, 16 QUART, W/ CASTERS	WP 0089 00, COEI, Item 5	2
SHOVEL, ROUND POINT, D HANDLE	WP 0089 00, COEI, Item 30	2
BROOM, UPRIGHT	WP 0089 00, COEI, Item 4	2
MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD	WP 0089 00, COEI, Item 22	1
MOP HANDLE	WP 0089 00, COEI, Item 23	2
MOP HEAD	WP 0089 00, COEI, Item 24	2
<b>OTHER ITEMS</b>		
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG	WP 0089 00, COEI, Item 6	4
TRUNK, LOCKER	WP 0089 00, COEI, Item 33	8
TOWEL, BATH, COTTON TERRY, DOZEN	WP 0089 00, COEI, Item 40	26
FLOOR MAT, ALTERED ITEM	WP 0089 00, COEI, Item 18	2
EXTENSION CORD, 25 FT, 120V, GFCI	WP 0089 00, COEI, Item 1	2
TECHNICAL MANUAL, FORCE PROVIDER TM 10-5419-206-13	WP 0089 00, BII, Item 7	1
TECHNICAL MANUAL, FORCE PROVIDER TM 10-5419-206-23P	WP 0089 00, BII, Item 6	1
<b>ELECTRICAL FEEDER SYSTEM, PDISE M100</b>		
STRAP, CABLE CARRYING	TM 9-6150-226-13	8
CABLE, PIGTAIL, 100A, 4 FT LONG	TM 9-6150-226-13	1
CABLE ASSEMBLY, SERVICE, 100A, 50 FT LONG	TM 9-6150-226-13	2
ELECTRICAL FEEDER CENTER, 100A	TM 9-6150-226-13	1
TECHNICAL MANUAL, PDISE TM 9-6150-226-13	WP 0089 00, BII, Item 3	1

**Table 2. Inventory List for Shower ECU Kit TRICON Type 4C.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	1
<b>AIR CONDITIONER ASSY, 54 K BTUH, 208V, 3 PHASE, 50/60 HZ, HORIZONTAL</b>	WP 0086 00, COEI, Item 24	2
COVER, DUCT	TM 10-5419-206-23P	6
DUCT HOLDER – 7 FT	TM 10-5419-206-23P	2
DUCT HOLDER – 9 FT	TM 10-5419-206-23P	2
DUCT, FLEXIBLE – 7 FT	TM 10-5419-206-23P	2
DUCT, FLEXIBLE – 9 FT	TM 10-5419-206-23P	2
PULLEY BUSHING (50HZ OPERATION)	TM 10-5419-206-23P	2
PULLEY (50HZ OPERATION)	TM 10-5419-206-23P	2
HOSE ADAPTER, DRAIN	TM 10-5419-206-23P	4
TUBING, SILICONE, 15 FT	TM 10-5419-206-23P	4
DEBRIS SCREEN, AIR CONDITIONER DUCT	WP 0089 00, COEI, Item 12	10

**Table 2. Inventory List for Shower ECU Kit TRICON Type 4C – Continued.**

<b>Subcomponent</b>	<b>Where Listed/Illustrated</b>	<b>Qty</b>
TECHNICAL MANUAL, AIR CONDITIONER, 54,000 BTU/HR TM 9-4120-398-14 AND 9-4120-411-14	WP 0089 00, BII, Item 8	2
<b>OTHER ITEMS</b>		
TRUNK, LOCKER	WP 0089 00, COEI, Item 33	15
CHAIR, FOLDING, STEEL	WP 0089 00, COEI, Item 8	4
<b>FLOODLIGHTS</b>		
TRIPOD FLOODLIGHT, 1000W	WP 0089 00, COEI, Item 41	1
TRIPOD FLOODLIGHT, 2000W	WP 0089 00, COEI, Item 42	2
GLOVE, INSERT, COTTON	WP 0089 00, COEI, Item 21	1
EXTENSION CORD, 50 FT, #12 AWG/3	WP 0089 00, COEI, Item 63	2

**Table 3. Inventory List for Shower Support Kit TRICON Type 4D.**

<b>Subcomponent</b>	<b>Where Listed/Illustrated</b>	<b>Qty</b>
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	5
<b>SEWAGE EJECTION PUMP, WASTE WATER EVACUATION</b>	WP 0089 00, COEI, Item 43	1
COUPLING, CAM/GROOVED HOSE, FEMALE ADAPTER, 2 IN NPT MALE	TM 10-4630-206-12&P	3
COUPLING, CAM/GROOVED HOSE, FEMALE ADAPTER, 3 IN NPT MALE	TM 10-4630-206-12&P	2
DUST CAP, 2 IN	TM 10-4630-206-12&P	3
DUST CAP, 3 IN	TM 10-4630-206-12&P	2
TECHNICAL MANUAL, SEWAGE EJECTION PUMP TM 10-4630-206-12&P	WP 0089 00, BII, Item 4	2
<b>SHOWER SUPPORT ITEMS</b>		
RACK ASSEMBLY, STORAGE/DRYING	WP 0089 00, COEI, Item 28	3
BENCH, 6 FT	WP 0089 00, COEI, Item 3	6
FLOOR MAT, ALTERED ITEM	WP 0089 00, COEI, Item 18	1
TABLE, FOLDING, 6 FT, ALUMINUM	WP 0089 00, COEI, Item 35	3
CORD, ELECTRICAL, 3 WIRE, 110 VOLT, 50 FT LONG	WP 0089 00, COEI, Item 26	1
TEE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN M X 1-1/2 IN F X 3/4 IN, COLD WATER SUPPLY	WP 0089 00, COEI, Item 57	1
COVER, CAN, ASH AND GARBAGE	WP 0089 00, COEI, Item 9	1
CAN, ASH AND GARBAGE, 32 GALLON, STEEL, GALVANIZED	WP 0089 00, COEI, Item 10	1
TRUCK, HAND, BOX, LAUNDRY, PLASTIC, 12 BUSHEL	WP 0089 00, COEI, Item 39	2
TRUNK, LOCKER	WP 0089 00, COEI, Item 33	11
CHAIR, FOLDING, STEEL	WP 0089 00, COEI, Item 8	5
TOWEL, BATH, COTTON TERRY, DOZEN	WP 0089 00, COEI, Item 40	37
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, 2 IN	WP 0089 00, COEI, Item 7	1
DRUM, SHIPPING AND STORAGE, STEEL, 55-GALLON	WP 0089 00, COEI, Item 15	1

**Table 4. Inventory List for Shower Kit TRICON 4E.**

<b>Subcomponent</b>	<b>Where Listed/Illustrated</b>	<b>Qty</b>
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	3
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	8
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	10
<b>SHAVE STAND SYSTEM</b>	WP 0089 00, COEI, Item 29	2
MIRROR & LIGHT ASSEMBLY, SHAVE STAND	TM 10-3510-225-13&P	4
BASIN ASSEMBLY, SHAVE STAND	TM 10-3510-225-13&P	4
LEG ASSEMBLY, SHAVE STAND	TM 10-3510-225-13&P	16
HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM-LOCK, 3/4 IN X 6-1/4 FT, F X M	TM 10-3510-225-13&P	8
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN X 6 FT, F X M, DRAIN, SHAVE STAND	TM 10-3510-225-13&P	4
HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM-LOCK, 3/4 IN X 2-1/4 FT, M X F	TM 10-3510-225-13&P	8
HOSE ASSEMBLY, BLACK WATER, Q-DISC, CAM-LOCK, 1-1/2 IN X 2 FT, M X F	TM 10-3510-225-13&P	4
<b>OTHER ITEMS</b>		
DOOR, DOUBLE BUMP-THROUGH, CL A, GREEN	WP 0089 00, COEI, Item 13	4
POWER CABLE, CLASS L TO COMMERCIAL, 20 AMP	WP 0089 00, COEI, Item 27	2

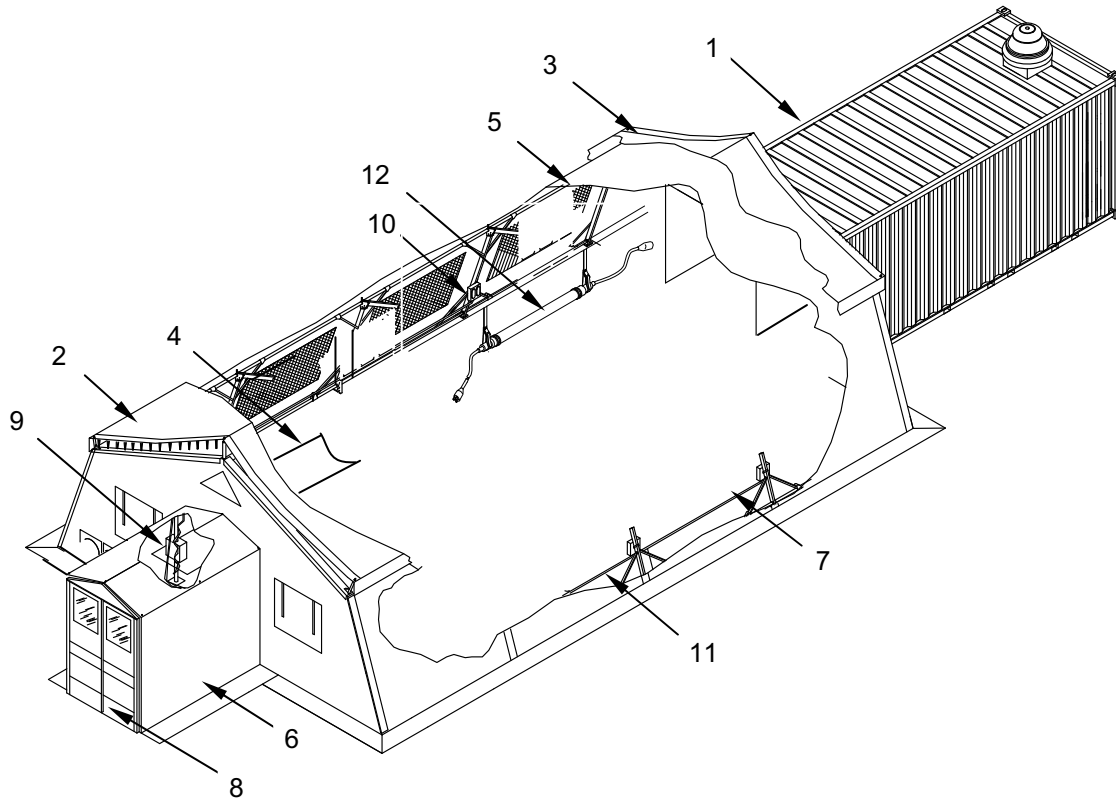
**ASSEMBLY AND PREPARATION FOR USE OF CSS**

Position and assemble the CSS (1) where indicated by staking points F and G (as described in WP 0022 00) and prepare for use as described in TM 10-4510-208-13&P.

**ASSEMBLY AND PREPARATION FOR USE OF TEMPER****NOTE**

The Type XII, 20-foot x 16-foot TEMPER shipped as part of the CSS must be supplemented with TEMPER components shipped in TRICON 4B to make up the 20-foot x 32-foot TEMPER required to house the shave stands.

Using TM 10-8340-224-13, erect the 20-foot x 32-foot TEMPER (2) with components as indicated above, in the position indicated by staking points B through E (Refer to WP 0022 00). Install the modified end wall (3), end wall plenum (4), liner (5), vestibules (6), floor (7), bump-through doors (8), power control (9), six convenience outlets (10) two Class L to Commercial 20-A power cables (shipped in TRICON 4E) (11), and six fluorescent lights (12).



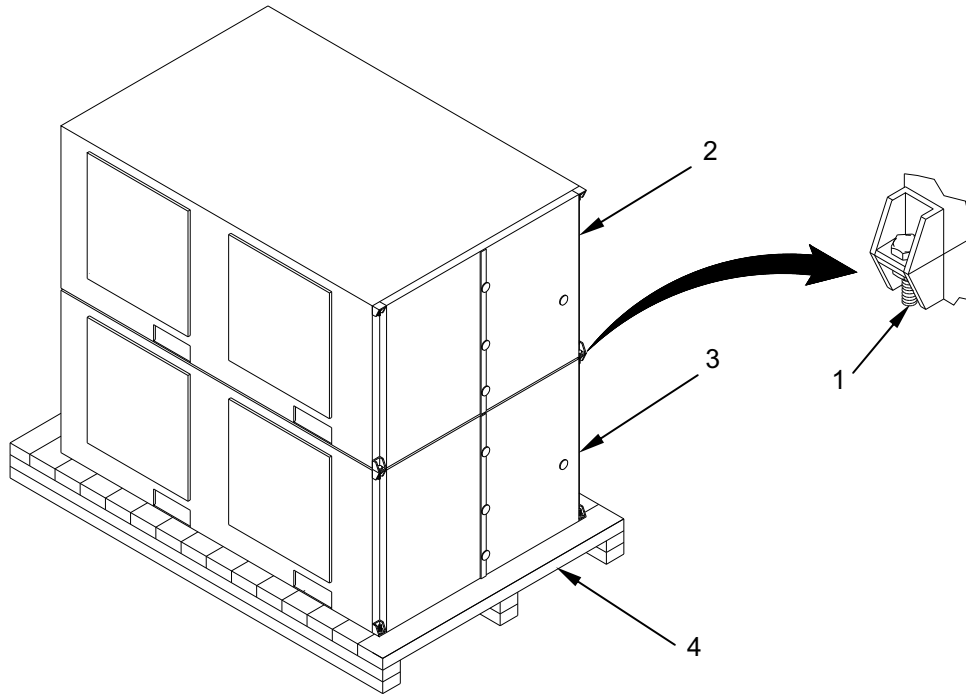
## ASSEMBLY AND PREPARATION OF ECU

### NOTE

The following instructions for the assembly and preparation for use of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-6408) is at hand, assemble, install, operate, and maintain it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are at hand, assemble, install, operate, and maintain them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions furnished herein.

Installation and use of ECU is optional, or may be deferred. Use the following procedures when installing ECU.

1. Remove ECU pallet from TRICON 1B. Remove preservation materials.
2. Remove four nuts, bolts, and washers (1) that secure ECU (2) and (3) together.
3. Use forklift to lift top ECU (2) off lower ECU (3).
4. Install nuts, bolts, and washers (1) back onto lower ECU (3) for future use.
5. Leave pallet (4) attached to lower ECU (3).



Set up ECU as follows:

### NOTE

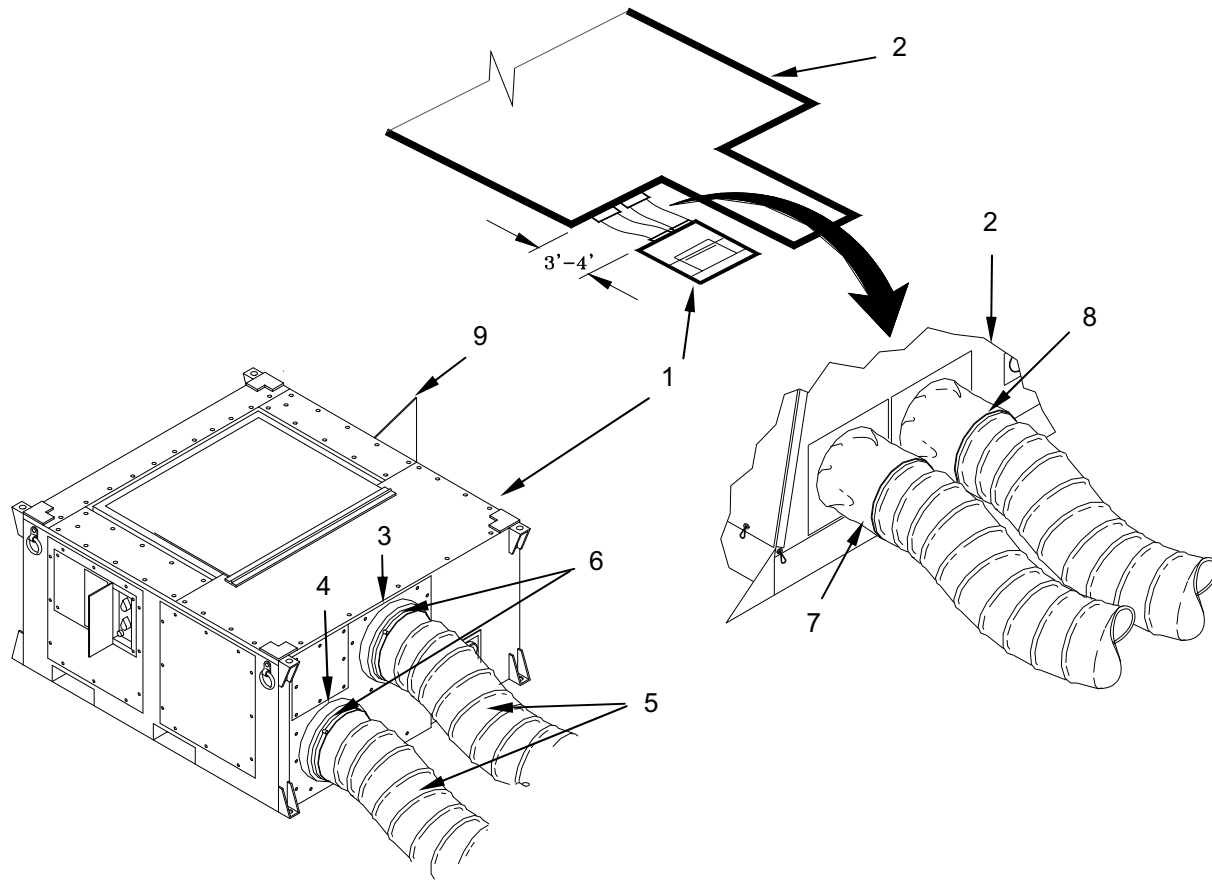
Leaving pallet attached to ECU or using lumber or dunnage between ECU and ground will help to prevent corrosion during long deployments.

1. Obtain lumber or dunnage (several 2-inch x 4-inch pieces are sufficient) on which to set ECU if no pallet is attached.
2. Position each ECU on dunnage or pallet at prepared site (1), three to four-feet from end wall of TEMPER (2), with supply (3) and return (4) duct ports facing TEMPER (2).
3. Remove ducts (5) from ECU by opening hinged panel on rear storage compartment (9). Retrieve ducts and racks. Remove ducts from racks and store racks in condenser compartment.

### NOTE

Observe that airflow directional arrow on ducts are facing in correct direction.

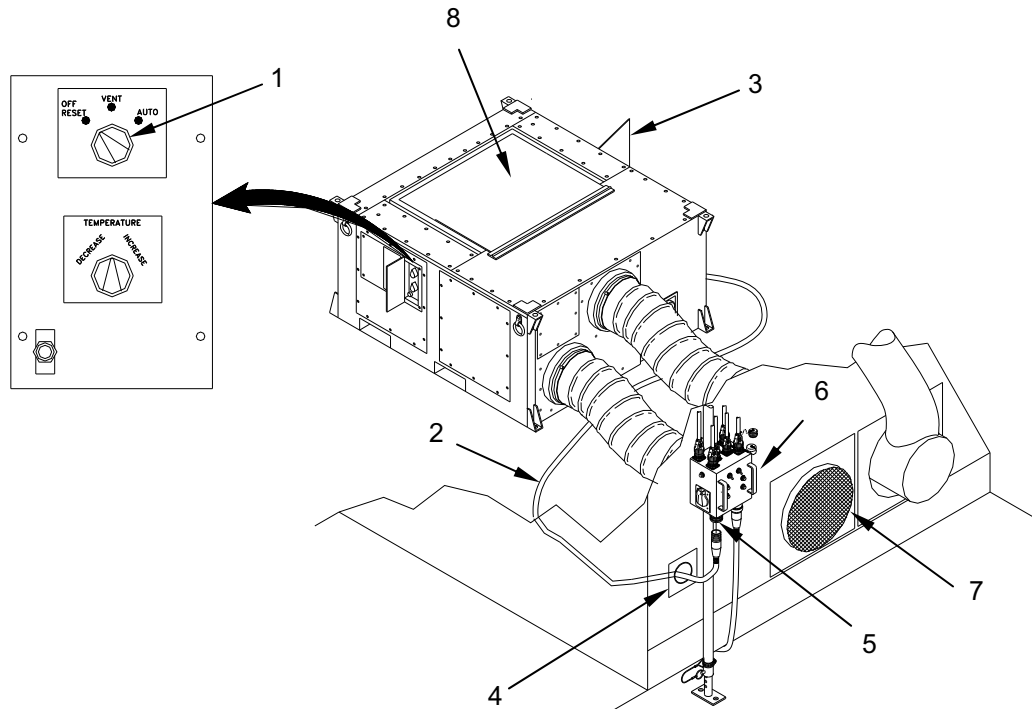
4. Place the 9-foot duct in the correct direction onto the supply (3) and the 7-foot duct to the return (4) flanges on the ECU. Tighten hose clamps (6) on flanges.
5. Attach ECU supply duct (3) to the TEMPER duct (7) that has plenum attached.
6. Attach ECU return duct (4) to the TEMPER duct (8) that does not have plenum attached.
7. Install the condenser drain hose.



### NOTE

Ensure mode selector switch (1) is set to OFF-RESET position.

8. Remove ECU power cable (2) from condenser compartment door storage box (3).
9. Route ECU power cable (2) through TEMPER cable sock (4) or between end section and floor, and connect to POWER OUT (J2) receptacle (5) on TEMPER power distribution box (6). Connect dust caps together.
10. Install debris screen (7) on return duct.
11. Release and flip the condenser fan cover (8).
12. Ensure all doors are closed and secured.



### ASSEMBLY AND PREPARATION FOR USE OF SHOWER TENT EQUIPMENT

To assemble the shower equipment in the TEMPER, proceed as follows:

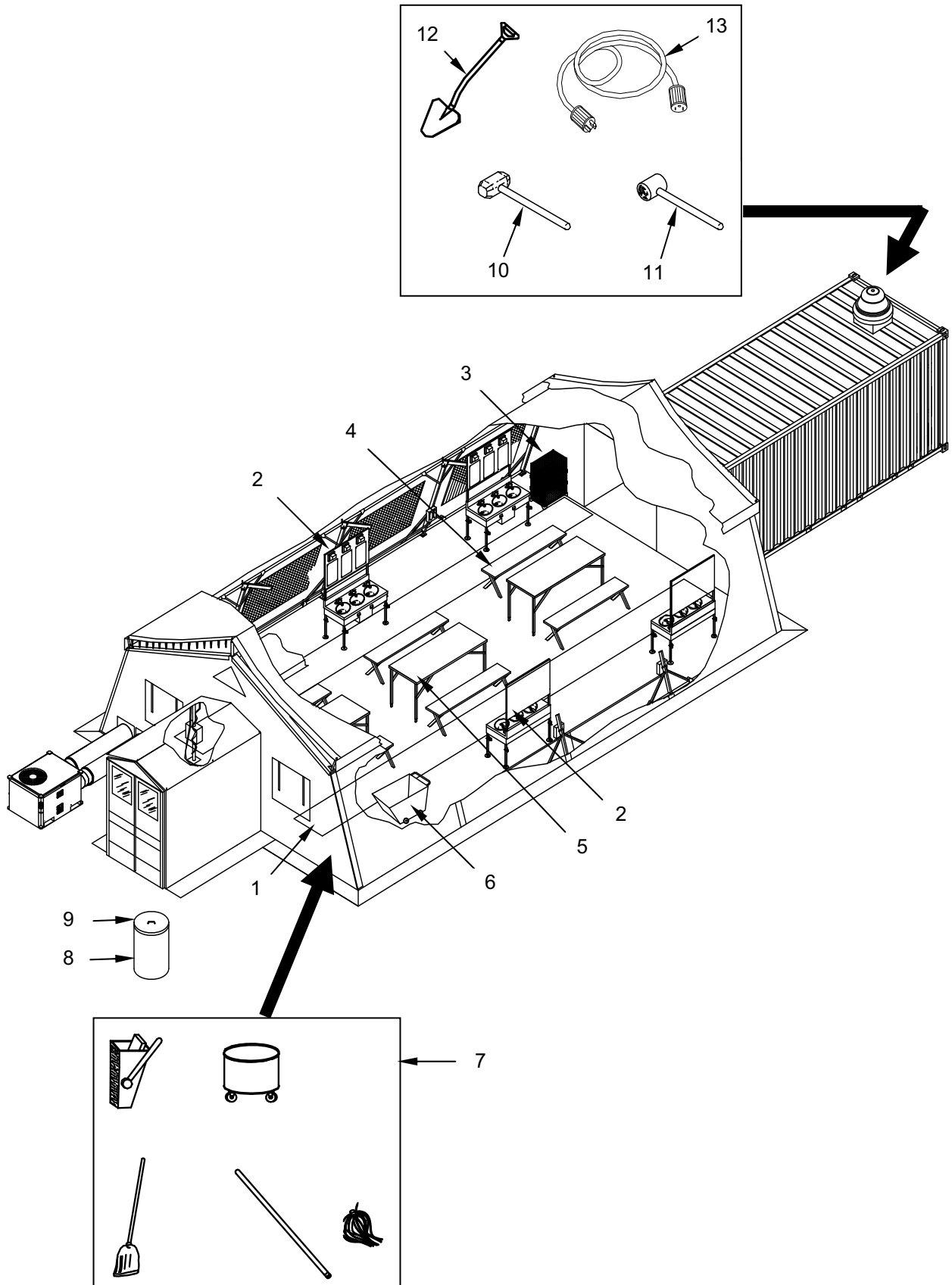
#### NOTE

The suggested layout of the shower tent equipment shown below can be modified to suit the particular operation of the facility.

1. Retrieve floor mats (1) shipped in TRICON 4B and lay them along the shave stands as shown.
2. Retrieve the components for the four shave stands shipped in TRICON 4E and move them inside the TEMPER.
3. Assemble the shave stands (2) as described in TM 10-4510-208-13&P and move into position as shown.
4. Make shave stand potable and waste water connections to the CSS as described in TM 10-4510-208-13&P.
5. Retrieve three drying and storage racks (3) shipped in TRICON 4D. Assemble each rack and move it in position as shown.
6. Retrieve six benches (4) shipped in TRICON 4D and place them in position inside the TEMPER as shown.
7. Retrieve three, 6-foot folding tables (5) (shipped in TRICON 4D) and set up as shown below.
8. Retrieve two laundry carts (6) shipped in TRICON 4D) and place inside the TEMPER.

9. Retrieve cleaning equipment (7) consisting of a broom, mop handle, mop head, bucket, and wringer shipped in TRICON 4D and place inside TEMPER corner.
10. Retrieve a trash can (8) with cover (9) shipped in TRICON 4D and place outside TEMPER entrance as shown.
11. Retrieve one each sledge hammer (10) one wooden mallet (11) one shovel (12) and two extension cords, 25-foot, 120V, GFCI shipped in TRICON 4B (13). These items are to be shared between each shower. When not in use store them in the rear compartment of the CSS.





**ASSEMBLY AND PREPARATION FOR USE OF SHOWER WASTEWATER COLLECTION****WARNING**

To prevent damage to shower system hoses and cables, observe the following:  
When crossing hoses and cables, waste water is always placed below potable water, and potable water is always placed below electrical cables. Failure to observe this rule may result in death or serious injury by electrocution, or transmission of disease by potable water contamination.

**WARNING**

To prevent water contamination and resulting disease keep waste water components separate from potable water components.

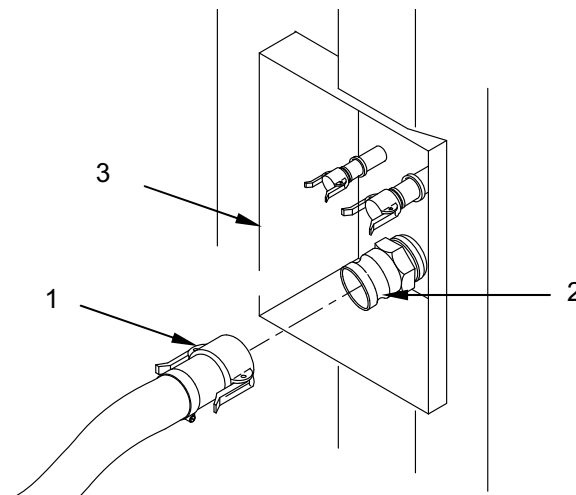
**CAUTION**

To prevent damage to hose couplings and electrical connectors, do not expose hose couplings and cable connectors to vehicular traffic. Lay hose and cable sections perpendicular across traffic lanes and areas used for vehicle parking or maneuvering.

**NOTE**

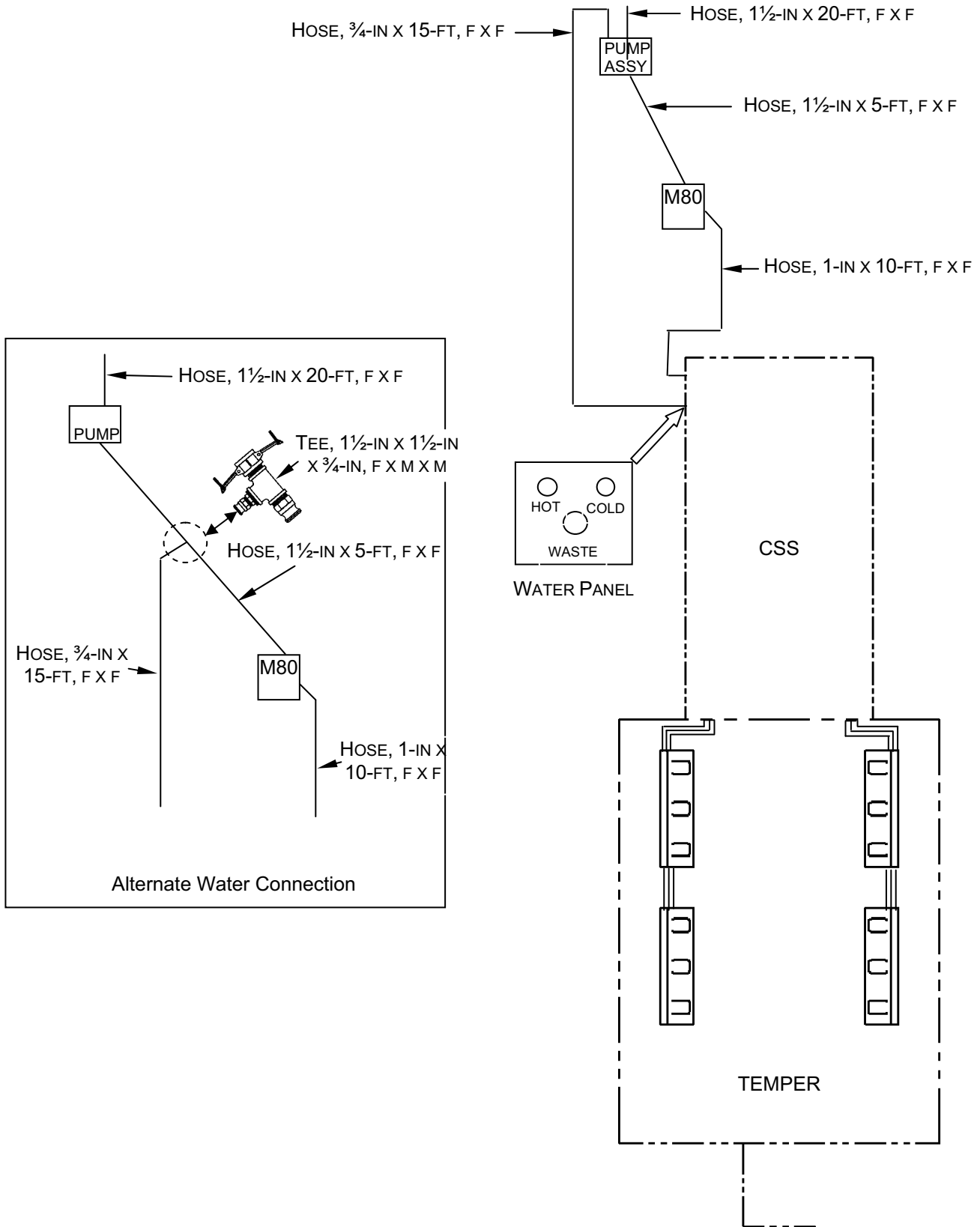
Under normal circumstances the Sewage Ejection Pump (SEP) shipped in TRICON 4D (Shower Support Kit) will not be needed to evacuate waste water generated by the CSS. The SEP is provided for discretionary use in situations where the evacuation distance is beyond capacity of organic CSS evacuation pump, or the waste water collection system gravity flow is insufficient to evacuate waste water satisfactorily.

CSS waste water equipment consisting of one hose assembly, QDISC, Cam-Lock 2-inch x 20-foot, M x F (1) will be connected to the waste water connection (2) on CSS water panel (3) and extended to survey stake 'I' (Waste Water Connection Point) as part of the CSS preparation for use per TM 10-4510-208-13&P. If the SEP is used, it should be set up at stake 'I' and the hose assembly connected to its input port as described in TM 10-4630-206-12&P. Waste water collection subsystem personnel will extend the wastewater collection system to survey stake 'H' for connection of the shower subsystem.



**ASSEMBLY AND PREPARATION FOR USE OF SHOWER WATER SUPPLY**

Assemble and connect the CSS water supply equipment as described in TM 10-4510-208-13&P and shown below.



**ASSEMBLY AND PREPARATION FOR USE OF SHOWER POWER SUPPLY****WARNING**

Power to a Force Provider Module can be provide by a commercial source, or generated by either the MSPG, or MSPP. In each case, power will be supplied to the PDISE for distribution to the user. It is the responsibility of individual subsystem personnel to lay out and assemble the requisite cables to the PDISE for connection. Personnel of the Force Provider Company Facilities Support Section are responsible for facilitating power supply to the PDISE. Only qualified personnel must connect user cables to the PDISE and pigtails to the power source. Failure to observe this warning may result in severe injury or death by electrocution.

Assemble the shower subsystem power supply equipment as follows:

1. Ensure circuit breakers in the CSS electrical panel (as shown in TM 10-4510-208-13&P) are OFF.
2. Locate the PDISE-M100 (1) shipped in TRICON 4B and position it at the power source control point (H) designated by staking (as shown in WP 0022 00). Open lid and set all circuit breakers to OFF.

**CAUTION**

Keep cables away from vehicle traffic. Damage to cables may result.

**NOTE**

When assembling power supply equipment, follow instructions for laying out cables from power source out to point of use, then connecting cables from point-of-use back to power source. Male ends of cables always go toward source, while female ends of cables go toward point-of-use.

**NOTE**

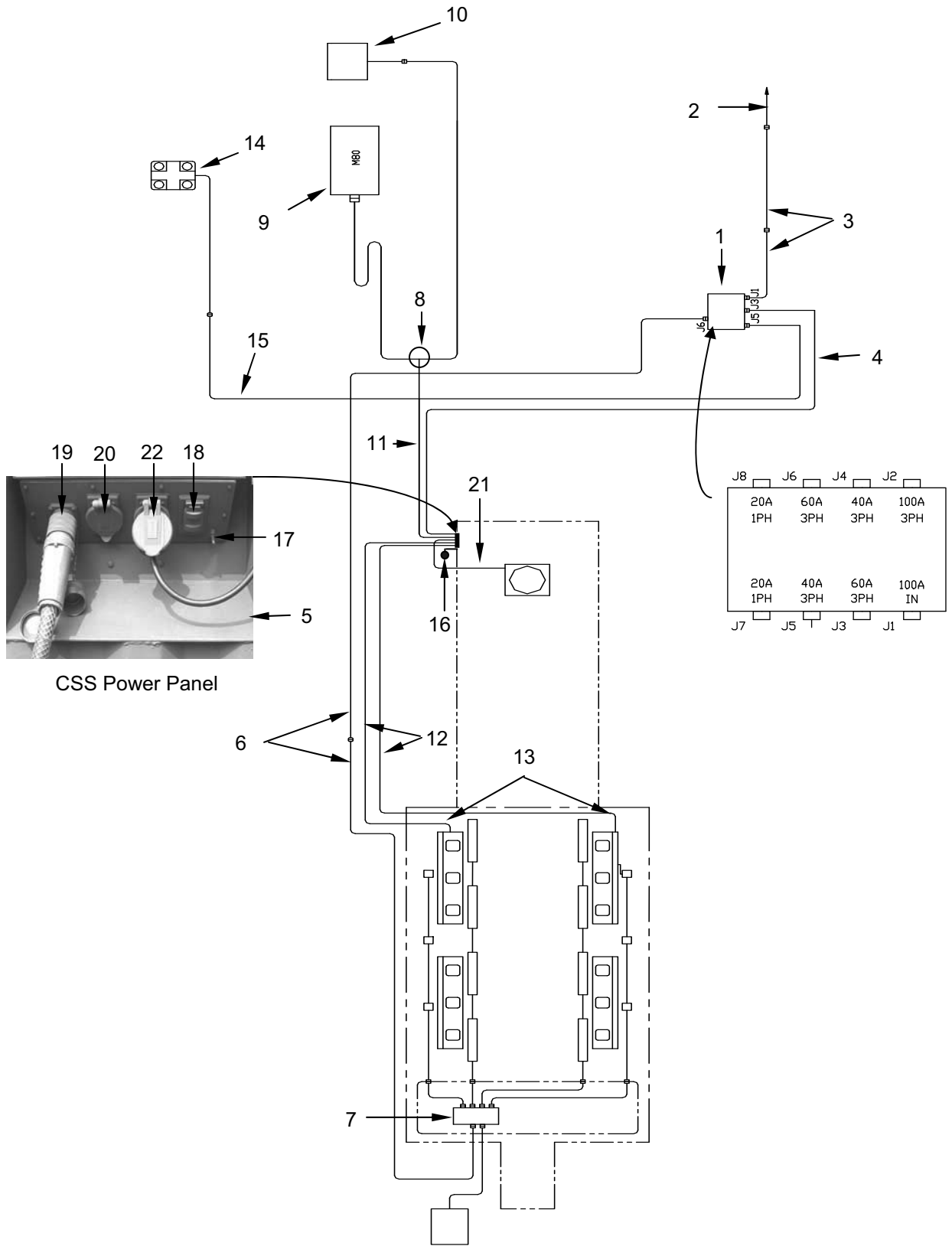
One 60-A/100-foot power cable, one 60-A/4-foot pigtail, two 110V, 50-foot, 3-wire extension cords and one 20A/120/208V power Tee is furnished with each CSS. Four 60-A/100-foot power cables, one electrical feeder system PDISE M100 and two 120V, 25-foot, GFCI extension cords are provided in TRICON 4B. Two 50-foot extension cords #12, AWG/3 are provided in TRICON 4C. One 110V, 50-foot, 3-wire extension cord is provided in each of two TRICON 4D as well as two 20A Class L to commercial power cables to connect CSS equipment to the power source. In most cases, not all of these cables will be necessary to make power source connections. Use only the cables required to make the connections. Leave unused cables packed and store in TRICON.

3. Locate one 100A/4-foot pigtail (2) and two 100A/50-foot service cables (3). Position and extend these cables on the power supply side of the PDISE (1) as shown.
4. Locate one 60A/100-foot power cable (4). Position the male end next to the J3 connector on the PDISE (1) and extend the other end to the CSS power panel (5).
5. Locate two 60A/100-foot power cables (6). Position the male end of one cable next to the J6 connector on the PDISE (1). Position the second cable to be connected in sequence to the first cable, with the female end positioned next to the J1 Power-In connector, located on the bottom of the TEMPER power distribution box (7).
6. Locate the 20A Tee (8). Position one of the Tee extensions next to the M80 water heater (9) and the other next to the water pump assembly (10), as shown. Position the Tee stem (11) next to the CSS power panel (5).

7. Locate two 110V, 3-wire, 50-foot extensions cords (12). Position the male ends of each cord next to the CSS power panel (5). Position the other end of these cords next to the shave stand extension cords (13).
8. When the SEP (14) is to be used, locate a 20A Class L to commercial extension cord (15). Position the male end of the cord next to the J7 connector on the PDISE (5). Position the other end of the cord to connect to the SEP power cord.
9. Locate, assemble and emplace the 3-section ground rod (16) as described in TM 10-4510-208-13&P. Ensure ground cable is securely connected to the ground rod (16) and ground stud (17) on the CSS power panel (5).

Connect the shower subsystem power supply equipment as follows:

1. Ensure that circuit breakers on the TEMPER power distribution box (as shown in TM 10-8340-224-13) as well as in the CSS power distribution box (as shown in TM 10-4510-208-13&P) and the PDISE M100 (as shown in TM 9-6150-226-13) are placed in the OFF position.
2. Connect the shave stand power cords (13) to the two 110V, 3-wire, 50-foot extensions cords (12). Connect the male ends of each extension cord to the 110V receptacles (18) on the CSS power panel (5).
3. Connect the female end of the 60-A/100-foot power cable (6) to the J1 Power-In connector located on the bottom of the TEMPER power distribution box (7). Connect the two 60A/100-foot power cables (6) together.
4. Connect the male end of the 60-A/100-foot power cable (6) to the J6 connector on the PDISE (1).
5. Connect the female end of the 60A/100-foot power cable (4) to the 60-A/3 Phase Input connector (19) on the CSS power panel (5).
6. Connect the male end of the 60-A/100-foot power cable (4) to the J3 connector on the PDISE (1).
7. Connect the power cords of the M80 water heater (9) and the water pump assembly (10) to the 20A Tee extensions. Connect the 20A Tee stem to the 20A 120/208V connector (20) on the CSS power panel (5).
8. Connect the CSS exhaust fan power cord (21) to the 20A connector (22) on the CSS power panel (5).
9. When the SEP (14) is to be used, connect the SEP power cord to the 20A Class L to commercial extension cord (15). Connect the extension cord to the J7 connector on the PDISE (5).
10. Notify facilities support personnel when the shower system is ready to be connected to the power supply.
11. Once power is connected to the subsystem, place the circuit breakers on the PDISE (1), the CSS power distribution box (as shown in TM 10-4510-208-13&P), and the TEMPER power distribution box (7) in the ON position.



**OPERATING INSTRUCTIONS FOR SHOWER SUBSYSTEM**

Operate the shower subsystem by following the procedures in the component technical manuals listed below.

**OPERATING PROCEDURES FOR CONTAINERIZED SHOWER SYSTEM**

Operate the CSS in accordance with TM 10-4510-208-13&P.

**OPERATING PROCEDURES FOR TEMPER**

Operate the TEMPER sorting tent in accordance with TM 10-8340-224-13,

**OPERATING PROCEDURES FOR SEP**

Operate the SEP in accordance with TM 10-4630-206-12&P.

**OPERATING PROCEDURES FOR M80 WATER HEATER**

Operate the M80 Water Heater in accordance with TM 10-4510-206-14.

**OPERATING PROCEDURES FOR PDISE M100**

Operate the PDISE M100 in accordance with TM 9-6150-226-13.

**OPERATING PROCEDURES FOR 30-GPM WATER PUMP**

Operate the 30-GPM Water Pump in accordance with TM 10-4510-208-13&P.

**OPERATING PROCEDURES FOR ECU****NOTE**

If ECU Model AH-54 (NSN 4120-01-432-6408) is at hand, operate it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are used, operate them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions furnished here.

**Initial Adjustments and Checks**

1. Ensure power cable has been connected to a 208/230-v, 3 phase, 50/60-Hz power source.
2. Inspect all covers, panels, grilles, and screens for loose mounting, obstructions, or shipping damage. Report damage to supervisor.

### Operation in Ventilate Mode

1. Turn mode selector switch (1) to VENT position.

#### **NOTE**

When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

2. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

### Operation in Automatic Mode

#### **CAUTION**

Compressor can be damaged if started with liquid refrigerant in crankcase. Power must be connected to ECU for a period of not less than 5 hours before starting in automatic mode.

#### **CAUTION**

Do not operate the ECU in the automatic mode for cooling when the outside air temperature is below 50 °F. Under these conditions, operate in the ventilate mode and admit fresh air as required to maintain desired temperature in the conditioned space.

1. Turn mode selector switch (1) to AUTOMATIC position.
2. Turn TEMPERATURE control (3) toward DECREASE or INCREASE as necessary to adjust and maintain the desired temperature in the conditioned space. When adjusting the TEMPERATURE control, the ECU must be given adequate time to change the temperature in the conditioned space before making additional adjustments. The temperature control has a range of 40 °F to 90 °F (5 °C to 32 °C) with the mid-point being approximately 65 °F (18 °C).

#### **NOTE**

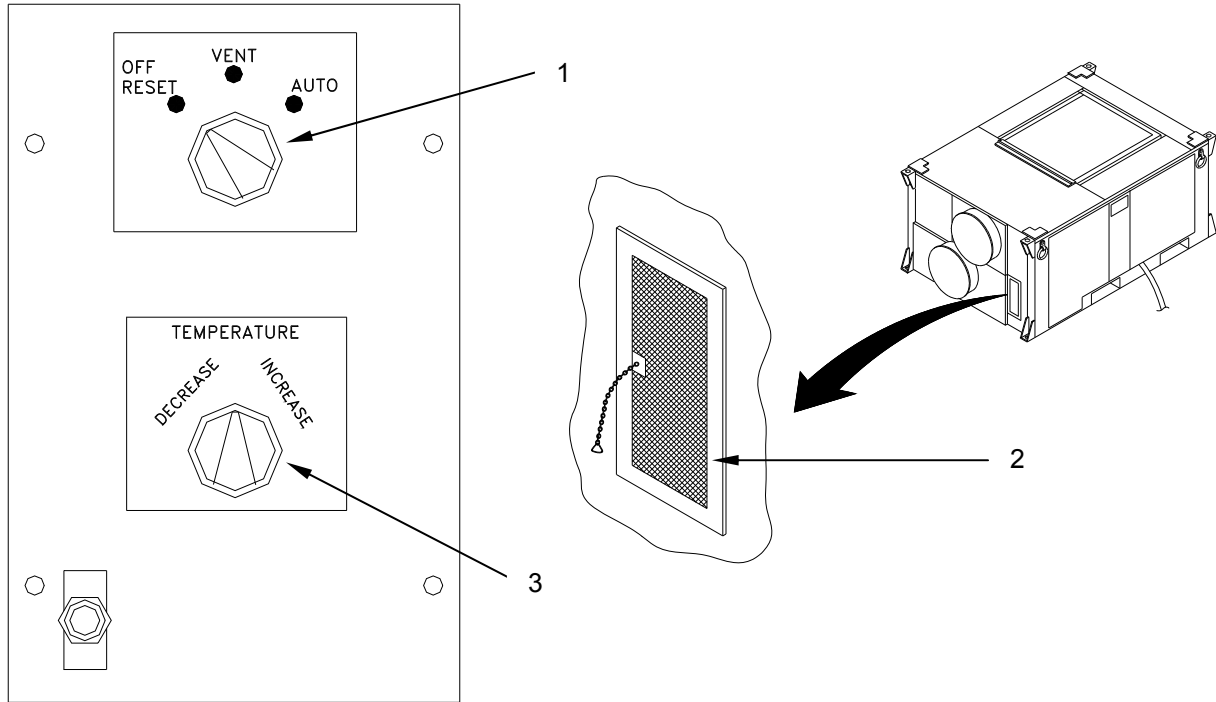
When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened slightly to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

3. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

### Shutdown

Turn mode selector (1) to the OFF/RESET position.





**END OF WORK PACKAGE**



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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS – POTABLE WATER DISTRIBUTION SUBSYSTEM**

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**GENERAL**

This WP contains operating procedures for the water distribution subsystem. Procedures for the operation of the shower subsystem in the MSCW Configuration is presented in WP 0038 00.

Before assembly and preparation for use of the potable water distribution subsystem, the FP module site selection, planning, preparation, staking and staging of the potable water distribution sites must be completed. TRICON 5A and 5B must be staged as described in WP 0022 00.

The water distribution subsystem requires connection to a power source.

**SCOPE**

Assembly and preparation for use of each water distribution site prior to operation consists of the following:

- Unpacking and inventory of water distribution equipment in TRICON 5A and 5B.
- Layout and setup of each potable water distribution subsystem site, including 20,000 Gallon Collapsible Fabric Tank(s), water pump, and hypochlorinator.
- Installation of nozzle kits.
- Optional connection to municipal water supply.
- Optional deployment of 400-Gallon tank water trailers.

**UNPACKING AND INVENTORY**

Unpack and inventory potable water distribution subsystem components using Table 1 and 2 of this WP.

Potable Water Distribution equipment is packed in the following container types and quantities:

Two TRICON Type 5A (Water Distribution System Tank Kit)  
One TRICON Type 5B (Water Distribution System Accessory Kit)

Four Trailer, Tank, Potable Water, 400-Gallon

Refer to WP 0038 00 for location and disposition of MSCW equipment to be used with the water distribution subsystem.

To unpack and de-process the equipment, proceed as follows:

1. Open each container and check its contents against Tables 1 and 2, depending on the container type (The container type is stenciled on the container door as illustrated in WP 0021 00).
2. Remove each item from the container and set it aside, but not in the area where other equipment is to be positioned.
3. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.
4. De-process four, 400-Gallon tank water trailers as described in TM 9-2330-267-14&P.

Table 1. Inventory List for Water Distribution System Tank Kit TRICON Type 5A.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTOR LINK	WP 0085 00, COEI, Item 2	3
CONTAINER, REUSABLE, BULK EQUIPMENT, MEDIUM	WP 0085 00, COEI, Item 10	2
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
<b>TANK CONNECTION KIT</b>		2
TEE ASSEMBLY, HYPOCHLORINATOR	WP 0090 00, COEI, Item 28	1
REDUCER, QDISC, CAM LOCK, 2 IN MC X 1-1/2 IN FC, AL	WP 0090 00, COEI, Item 29	1
HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM-LOCK, 1-1/2 IN X 20 FT, F X F	WP 0090 00, COEI, Item 30	2
REDUCER, QDISC, CAM-LOCK, 2 IN FC X 4 IN MC, AL	WP 0090 00, COEI, Item 31	1
HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM-LOCK, 4 IN X 10 FT, M X F	WP 0090 00, COEI, Item 32	1
RECIRCULATION TEE ASSEMBLY	WP 0090 00, COEI, Item 23	1
TEE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN M X 1-1/2 IN F X 1-1/2 IN M	WP 0090 00, COEI, Item 19	1
VALVE ASSEMBLY, GATE, QDISC, CAM-LOCK, 1-1/2 IN F X M	WP 0090 00, COEI, Item 22	2
HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM-LOCK, 4 IN X 20 FT, M X F	WP 0090 00, COEI, Item 33	1
VALVE ASSEMBLY, GATE, QDISC, CAM-LOCK, 4 INCH	WP 0090 00, COEI, Item 34	1
HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM-LOCK, 1-1/2 IN X 20 FT, M X F	WP 0090 00, COEI, Item 16	15
<b>TANK, FABRIC COLLAPSIBLE, 20,000 GALLON, POTABLE WATER WITH GROUND CLOTH AND ACCESSORIES</b>	TM 5-5430-219-13	2
VALVE ASSEMBLY, GATE, QDISC, CAM-LOCK, 1-1/2 IN F X M	WP 0090 00, COEI, Item 22	1
VENT TUBE ASSEMBLY, 2 IN	TM 5-5430-219-13	1
OUTPUT ASSEMBLY, 1-1/2 IN	WP 0090 00, COEI, Item 7	1
OUTPUT 90 DEGREE ELBOW, QDISC, CAM-LOCK, 4 IN FEMALE X 4 IN MALE	TM 5-5430-219-13	1
OUTPUT 90 DEGREE ELBOW, QDISC, CAM-LOCK, 1-1/2 IN FEMALE X 1-1/2 IN MALE QDISC	TM 5-5430-219-13	1
GROUND CLOTH, 20,000 GAL TANK	TM 5-5430-219-13	1
TECHNICAL MANUAL, COMMERCIAL, 20,000 GALLON FABRIC TANK	TM 5-5430-219-13	1
INPUT/OUTPUT FITTING, 4 IN	WP 0090 00, COEI, Item 7	2
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN X 20 FT, F X M, DRAIN LINE	TM 5-5430-219-13	1
INPUT 90 DEGREE ELBOW, QDISC, CAM-LOCK, 4 IN FEMALE X 4 IN FEMALE	TM 5-5430-219-13	1
<b>EMERGENCY REPAIR KIT</b>	TM 5-5430-219-13	1
GASKET, 1.5 IN	TM 5-5430-219-13	8
PLUG, WOOD, TAPERED, 5/8 IN	TM 5-5430-219-13	5
PLUG, WOOD, TAPERED, 1 1/2 IN	TM 5-5430-219-13	3
PLUG, WOOD, TAPERED, 2 IN	TM 5-5430-219-13	3
PLUG, WOOD, TAPERED, THREADED, 5 IN	TM 5-5430-219-13	2
PLUG, WOOD, TAPERED, THREADED, 3 IN	TM 5-5430-219-13	2
PATCH, MECHANICAL, 3/4 IN	TM 5-5430-219-13	6
INSTRUCTIONS	TM 5-5430-219-13	2
TANK FABRIC, 1SQ YD	TM 5-5430-219-13	1
POUCH, REPAIR KIT	TM 5-5430-219-13	1
CLAMP, REPAIR, SEALING, 7 1/2 IN	TM 5-5430-219-13	2
CLAMP, REPAIR, SEALING, 3 IN	TM 5-5430-219-13	2
GASKET, 4 IN	TM 5-5430-219-13	4

Table 1. Inventory List for Water Distribution System Tank Kit TRICON Type 5A – Continued.

Subcomponent	Where Listed/Illustrated	Qty
CUTTING KNIFE WITH SHEATH	TM 5-5430-219-13	1
PATCH, MECHANICAL, 2 IN	TM 5-5430-219-13	2
PLIERS, LINESMAN'S, 8 IN	TM 5-5430-219-13	1
CLAMP, REPAIR, SEALING, 5 IN	TM 5-5430-219-13	2
TAPE, ANTISEIZE, ½ IN WIDE	TM 5-5430-219-13	2
<b>OTHER ITEMS</b>		
HOSE ASSEMBLY, NONMETALLIC, GARDEN	WP 0090 00, COEI, Item 9	2
HOSE ASSEMBLY, QDISC, CAM-LOCK, 4 IN X 20 FT, RUBBER, DISCHARGE, POTABLE WATER, RDF	WP 0090 00, COEI, Item 10	10
PUMP ASSEMBLY, CONTAINERIZED SHOWER	WP 0090 00, COEI, Item 13	2
POWER CABLE, CLASS L TO COMMERCIAL, 20 AMP	WP 0090 00, COEI, Item 11	2
HYPOCHLORINATION UNIT	WP 0090 00, COEI, Item 12	2
MANUAL, COMMERCIAL, HYPOCHLORINATION UNIT	WP 0090 00, BII, Item 5	2

Table 2. Inventory List for Water Distribution Accessory Kit TRICON Type 5B.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTOR LINK	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL	WP 0085 00, COEI, Item 9	2
<b>CONNECTION KIT, NOZZLE, LARGE</b>	WP 0090 00, COEI, Item 4	4
RECIRCULATION TEE ASSEMBLY	WP 0090 00, COEI, Item 25	1
STAND ASSEMBLY, FUEL CAN, COLLAPSIBLE	WP 0090 00, COEI, Item 24	1
NOZZLE ASSEMBLY, WATER, 1 IN	WP 0090 00, COEI, Item 25	1
HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM-LOCK, 1-1/2 IN X 20 FT, M X F	WP 0090 00, COEI, Item 16	2
<b>CONNECTION KIT, NOZZLE, SMALL</b>	WP 0090 00, COEI, Item 5	4
RECIRCULATION TEE ASSEMBLY	WP 0090 00, COEI, Item 25	1
HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM-LOCK, 1 IN X 10 FT, M X F	WP 0090 00, COEI, Item 26	4
STAND ASSEMBLY, FUEL CAN, COLLAPSIBLE	WP 0090 00, COEI, Item 24	1
NOZZLE ASSEMBLY, WATER, 1-1/2 IN	WP 0090 00, COEI, Item 25	1
REDUCER, QDISC, CAM-LOCK, 1-1/2 IN FC X 1 IN MC, AL	WP 0090 00, COEI, Item 27	1
HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM-LOCK, 1-1/2 IN X 20 FT, M X F	WP 0090 00, COEI, Item 16	2
<b>ACCESSORY KIT, PUMP UNIT</b>	WP 0090 00, COEI, Item 1	1
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN X 20 FT F X M	WP 0090 00, COEI, Item 16	8
TEE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN M X 1-1/2 IN F X 1-1/2 IN M	WP 0090 00, COEI, Item 19	2
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN X 10 FT, RUBBER, POTABLE WATER RDF	WP 0090 00, COEI, Item 17	2
CHECK VALVE ASSEMBLY, 1-1/2 IN	WP 0090 00, COEI, Item 20	2
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN X 15 FT, F X F, POTABLE WATER	WP 0090 00, COEI, Item 18	2
VALVE ASSEMBLY, GATE, QDISC, CAM-LOCK, 1-1/2 IN F X M	WP 0090 00, COEI, Item 22	4
<b>OTHER ITEMS</b>	WP 0090 00, COEI, Item	
ADAPTER ASSEMBLY, 1 IN FC X 3/8 IN NPT	WP 0090 00, COEI, Item 3	1
ADAPTER, 3/8 IN NPT X ¼ IN M GARDEN HOSE THREAD	WP 0090 00, COEI, Item 2	1
REDUCER, QDISC, CAM-LOCK, 1-1/2 IN FC X 1 IN MC, AL	WP 0090 00, COEI, Item 15	2
GASKET, COUPLING HALF, QDISC, CAM-LOCK, 1-1/2 IN	WP 0090 00, COEI, Item 9	1
POWER CABLE, CLASS L TO COMMERCIAL, 20 AMP	WP 0090 00, COEI, Item 12	2

**Table 2. Inventory List for Water Distribution Accessory Kit TRICON Type 5B - Continued.**

Subcomponent	Where Listed/Illustrated	Qty
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM TM 10-5419-206-13	WP 0090 00, BII, Item 3	1
TECHNICAL MANUAL, RPSTL FORCE PROVIDER SYSTEM TM 10-5419-206-23P	WP 0090 00, BII, Item 2	1

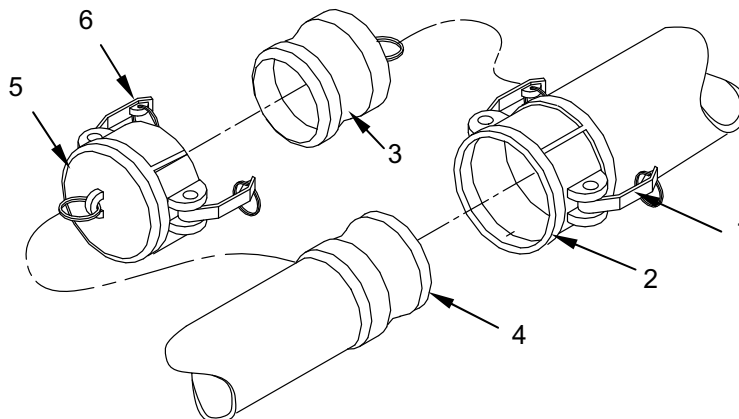
**ASSEMBLY OF CAM-LOCK TYPE QUICK DISCONNECT (QDISC) COUPLINGS**

This paragraph provides instructions to assemble hoses, pipes, and fittings equipped with cam-lock type quick disconnect (QDISC) couplings. These couplings are used to make the majority of connections needed to set up the water distribution subsystem. Proper technique is required to ensure that coupling halves are not allowed to come in contact with ground or other surfaces. Working in two-person teams can ease the assembly process and reduce the risk of contamination due to faulty assembly practice.

**WARNING**

Assembly of QDISC couplings must be accomplished in accordance with instructions. Failure to do so may cause sickness or death to personnel resulting from contamination of potable water equipment and water supply.

1. Open locking levers (1) on female coupling half (2), but do not remove dust plug (3).
2. Rest female coupling half (2) on an object (such as your boot) that will keep it off the ground and at an upward angle.
3. Lay the male coupling half (4) across the female coupling half (2).
4. Remove dust plug (3) from female coupling half (2) and hold it in your hand.
5. While holding dust plug (3), remove dust cap (5) from the male coupling half (4) by lifting locking levers (6).
6. Immediately insert dust plug (3) inside dust cap (5) and close locking levers (6). Set dust plug (3) and dust cap (5) down.
7. Insert male coupling half (4) into female coupling half (2) and close locking levers (1).
8. Set assembled coupling down.



**ASSEMBLY AND PREPARATION FOR USE OF WATER STORAGE TANKS**

Use the following procedures to set up each of the four type I water tanks to be used within a FP module. Understanding of and compliance with, instructions described under Assembly of Cam-Lock Type Quick Disconnect (QDISC) Couplings are required for this procedure.

**WARNING**

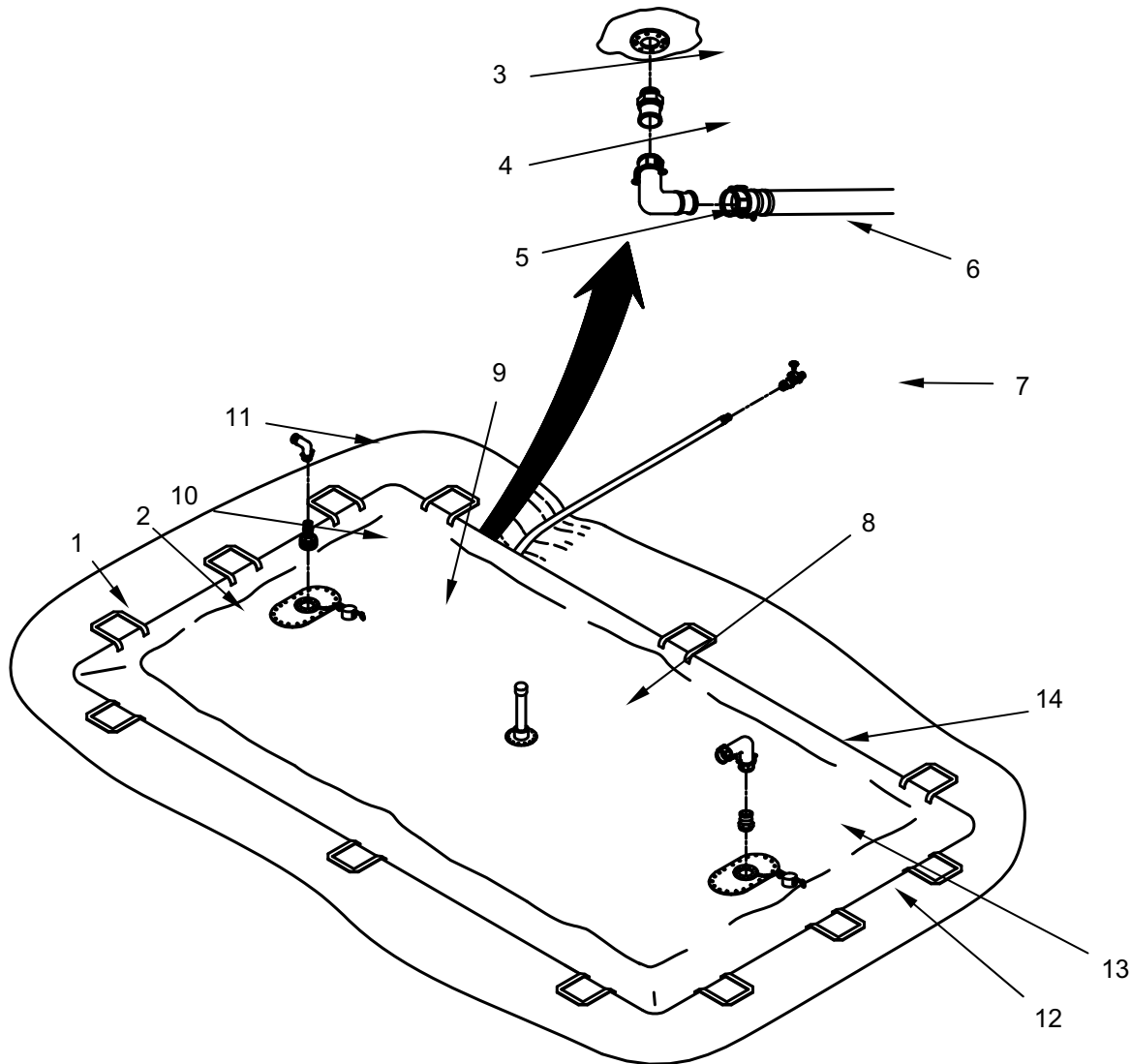
Force Provider utilizes similar tanks for potable water (tank type I) and wastewater (tank type II). Never store potable water in a type II tank, or any tank, which has previously been used for wastewater. Using a contaminated tank for potable water can cause death or severe illness to individuals who ingest or contact contaminated water.

1. Ensure ground has been prepared for ground cloth (1) and the Type I, 20,000-Gallon Collapsible Fabric Tank (2) at designated site, for positioning as shown in WP 0021 00.

**WARNING**

When unpacking components to be used with the potable water subsystem exercise care to prevent contamination of components from contact with the soil. Maintain components in their wrapping until installation. To prevent disease from ingestion of contaminated water, use dust caps and plugs to minimize exposure to the soil and atmosphere.

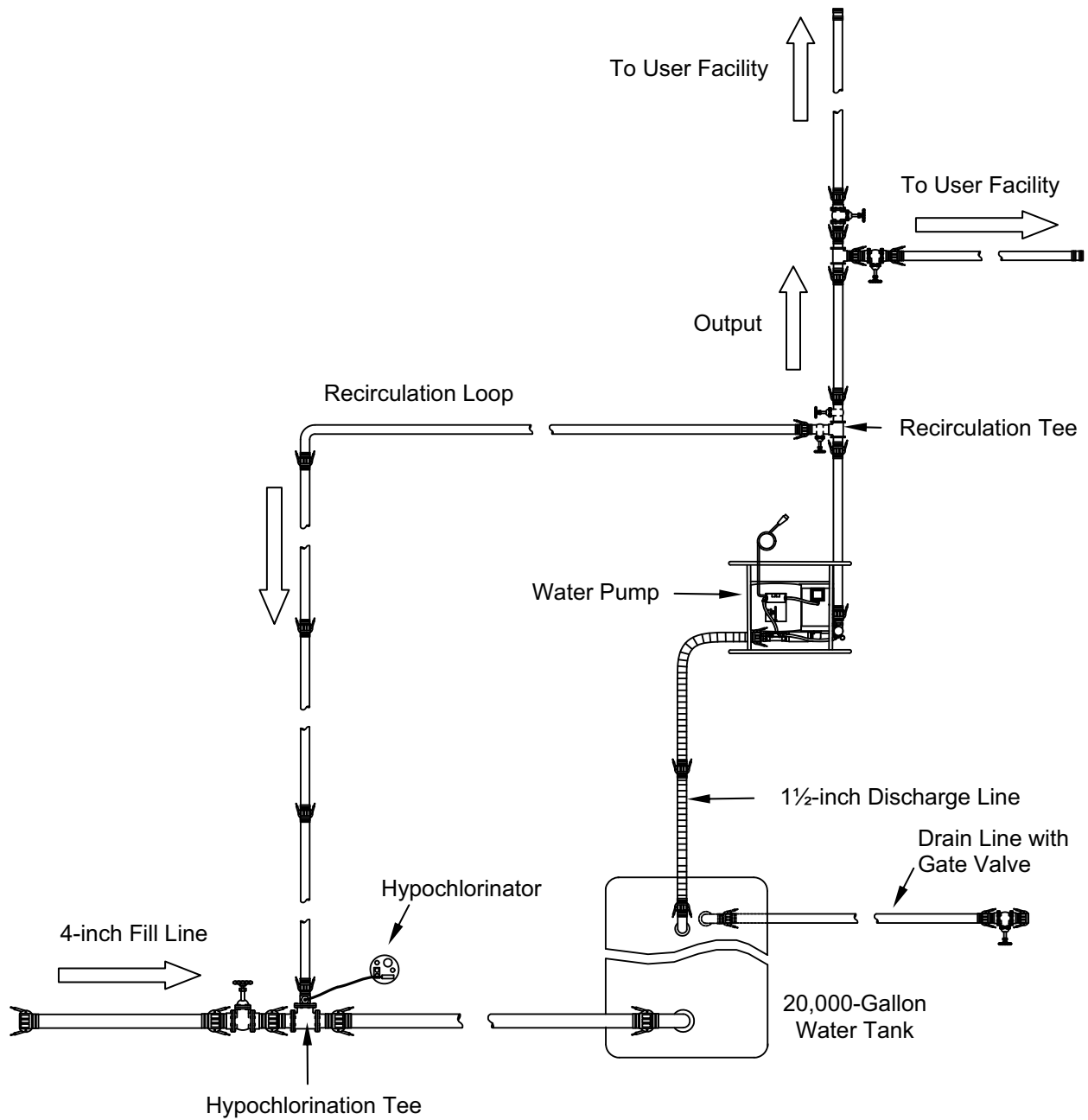
2. Unpack the crates containing the tanks and accompanying components shipped in TRICON type 5A.
3. Position ground cloth (1) and tank (2) as shown below, ensuring correct orientation of the tank input and discharge side. (The discharge side always faces subsystems to be serviced).
4. Fold back tank to expose the tank drain plate (3). Fold back the ground cloth and dig a trench from the position of the drain plate to the side of the tank to accommodate the 1½-inch tank drain line.
5. Place the ground cloth (1) back into its original position over the trench.
6. Remove the shipping plug from the tank drain plate and install the drain line assembly onto the drain plate, consisting of the drain fitting (4), 90° elbow (5) and 1½-inch x 20-foot QDISC drain hose (6).
7. Place the tank fabric back into its original position ensuring the drain line is placed into the trench. Connect a 1½-inch gate valve (7) onto the end of the drain hose (6) extending from the tank bottom.
8. Install vent assembly (8) as described in TM 5-5430-219-13.
9. Remove the dust cap (9) from the discharge plate and install the 4-inch external NPT x 1½-inch QDISC output adapter (10).
10. Install the 1 1/2-inch male x female street elbow (11) onto the output adapter (10).
11. Remove the dust cap (12) from the tank fill plate and install the 4-inch external NPT x QDISC input adapter (13).
12. Install a 4-inch QDISC female elbow (14) onto the tank input adapter (13). Orient the elbow (14) toward the side of the tank (2).



### LAYOUT AND ASSEMBLY OF POTABLE WATER DISTRIBUTION SITE

This paragraph contains procedures for assembly and preparation for use of a single potable water distribution site. Use these procedures to assemble and prepare each of the four sites required within an FP module. Procedures for the assembly and preparation for use of the potable water distribution sites in the MSCW configuration is similar, except that all components (with the exception of the 20-foot, 1½-inch feeder hoses to the staking point, which are replaced in the MSCW configuration with 75-foot heat traced hoses) will be located inside the TEMPER (refer to WP 0038 00). Understanding of and compliance with, instructions described under Assembly of Cam-Lock Type Quick Disconnect (QDISC) Couplings are required for this procedure.



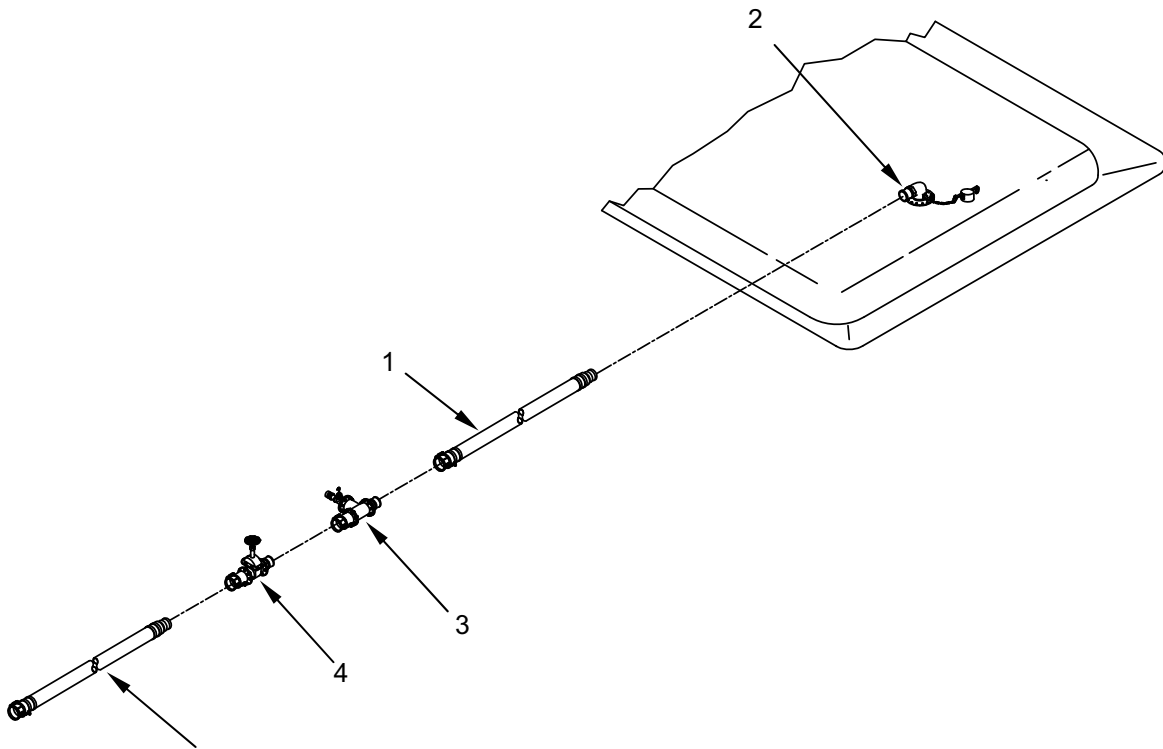


**Water Distribution Subsystem Layout.**

**Assemble Fill Side****WARNING**

Maintain water distribution components in their wrapping until installation. Use dust caps and plugs to minimize exposure of components to soil and atmosphere and prevent disease from ingestion of contaminated water.

1. Connect a 4-inch F x M, 20-foot potable water hose (1) to filler elbow (2). Leave hose plug installed.
2. Remove plug from hose (1) and install the hypochlorination re-circulation Tee assembly (3) to the end of the hose (1). Install dust cap onto Tee.
3. Remove plug from hypochlorination re-circulation Tee and install a 4-inch gate valve assembly (4) onto the Tee assembly (3). Install dust plug on gate valve.
4. Remove dust plug from gate valve (4), and connect 4-inch x 20-foot potable water hose (5) to gate valve (4). Extend hose toward water source or delivery point, but do not remove dust plug from hose until ready for use.



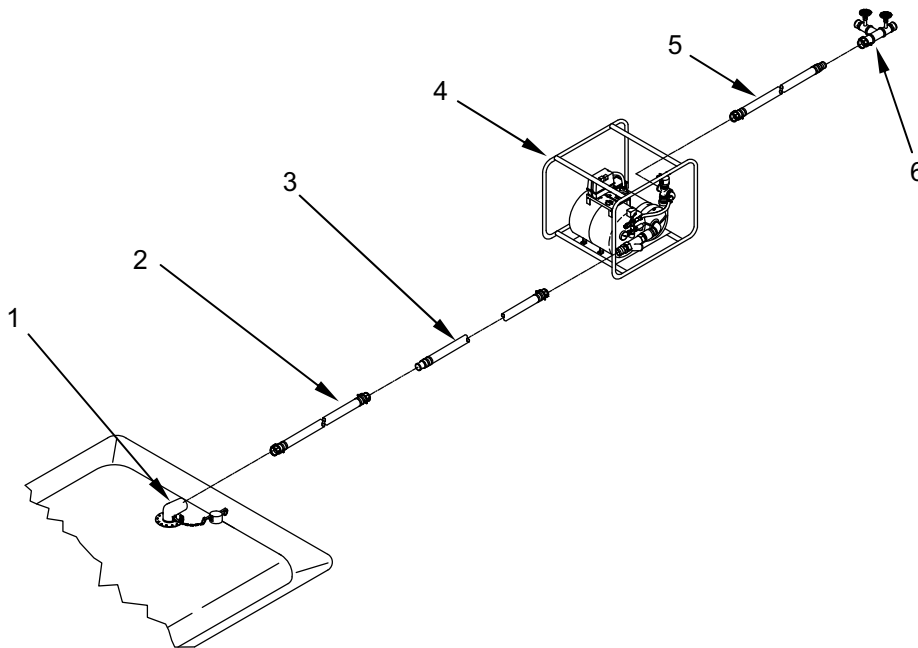
## Assemble Discharge Side



### WARNING

Maintain water distribution components in their wrapping until installation. Use dust caps and plugs to minimize exposure of components to soil and atmosphere and prevent disease from ingestion of contaminated water.

1. Remove the dust cap from the previously installed elbow (1) on the discharge side of the 20,000 Gallon tank and install a 1½-inch x 20-foot F x F QDISC hose assembly (2) onto the elbow. Leave the dust plug on other end of hose installed.
2. Remove the dust plug from the hose (2) installed in step 1., above and connect the male end of a 1½-inch x 20-foot F x M potable water hose assembly (3) to this hose (2). Leave the dust plug on other end of hose (3) installed.
3. Position the containerized shower pump assembly (shipped in TRICON 5B) (4) as shown. Remove the dust plug from the hose (3) installed in step 2., above and connect the hose to the input port of the pump (4). Refer to TM 10-4510-208-13&P for information on the containerized shower pump assembly.
4. Remove the dust cap from the discharge port of the pump assembly (4) and install the female end of a 1½-inch x 20-foot F x M potable water hose assembly (5) onto the discharge port of the water pump (4). Leave the dust cap on other end of hose installed.
5. Remove the dust plug from the right arm of the recirculation Tee assembly (6). Remove the dust cap from the hose assembly (5) installed in step 4, above and connect the hose to the Tee assembly (6). Leave the dust caps on the Tee male connectors installed.



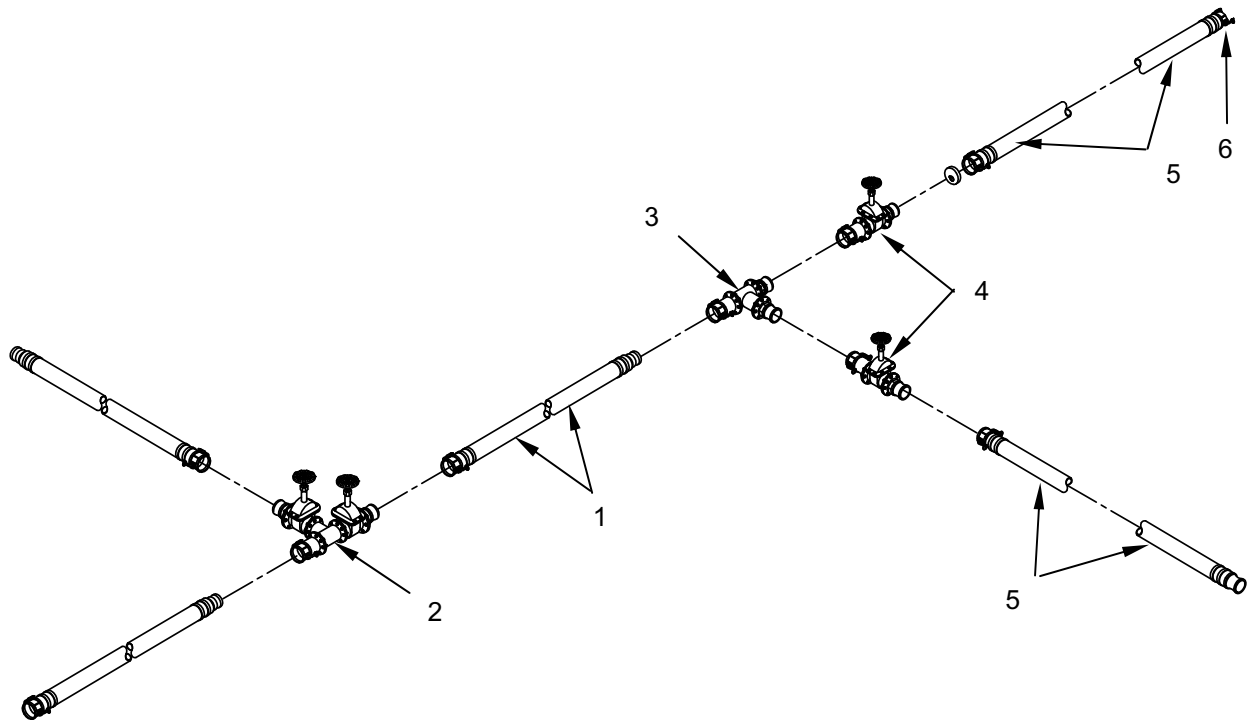
## Connect Distribution Line(s) to Discharge Side



### WARNING

Maintain water distribution components in their wrapping until installation. Use dust caps and plugs to minimize exposure of components to soil and atmosphere and prevent disease from ingestion of contaminated water.

1. Remove the dust cap from the left arm male fitting on the recirculation Tee (1) and connect two 1½ -inch x 20-foot F x M potable water hose assemblies (2) in sequence to the male fitting of the Tee (1). Leave the dust cap at the end of the second hose installed.
2. Remove the dust plug from the female end of a 1½-inch M x M x F QDISC Tee assembly (3). Remove the dust cap from the male connector of the second 1½ -inch x 20-foot F x M potable water hose assembly (2) installed in step 1 above, and connect the hose to the Tee. Leave the dust caps on the other connectors of the Tee installed.
3. Remove the dust caps from the female connectors of two 1½ -inch F x M QDISC gate valves (4). Remove the dust plugs from the Tee connectors installed in step 2 above. Install the female connector of the gate valves (4) onto the male couplings on the Tee assembly (3). Leave the dust caps on the gate valve male connectors installed.
4. To each gate valve (4), connect (only as many assemblies as needed to reach user) 1½-inch x 20-foot F x M potable water hose assemblies (5) extending toward staked potable water connection point(s) for users. Do not remove dust caps (6) from hose ends until facility connection is to be made.



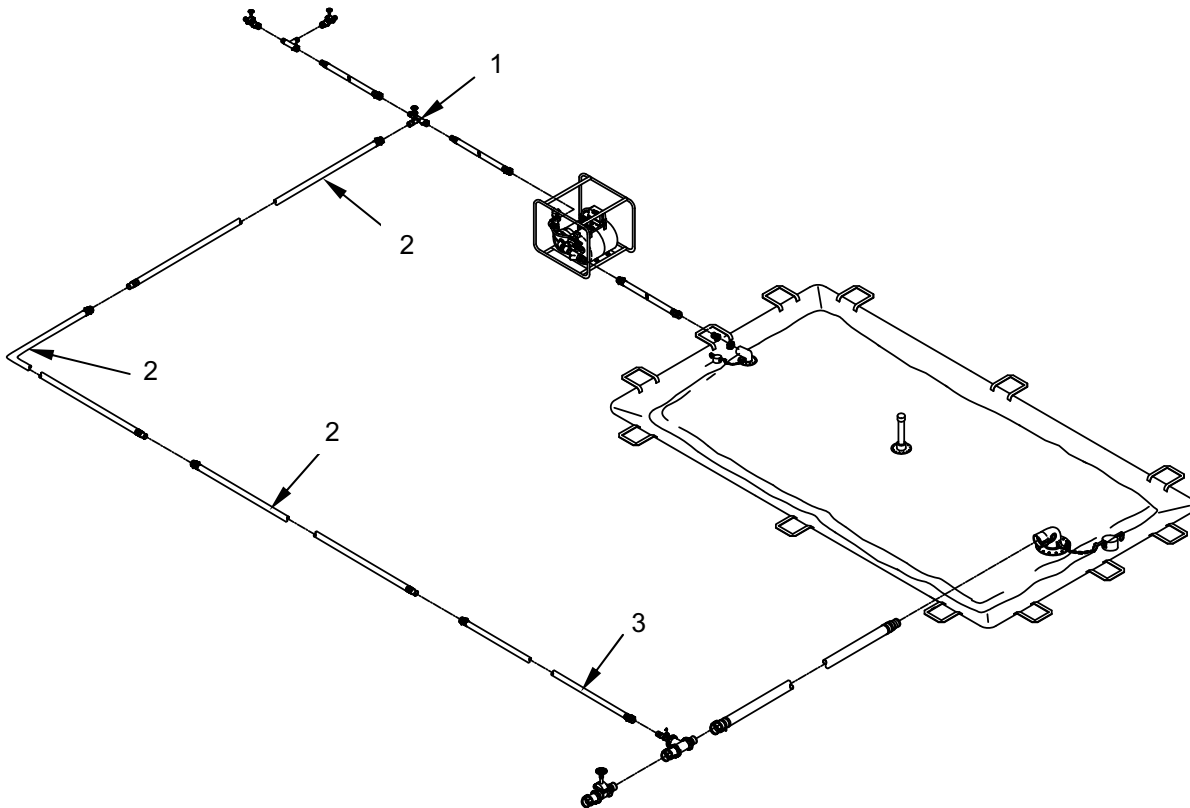
## Install Re-circulation Loop



### WARNING

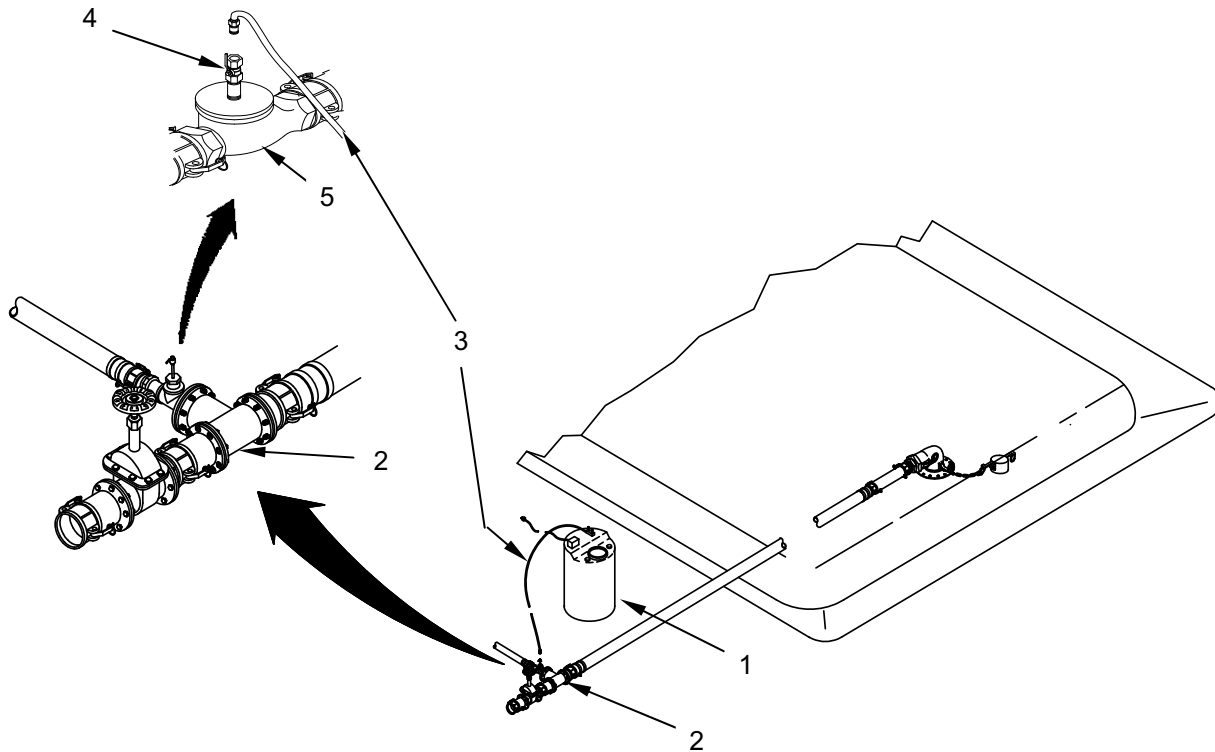
Maintain water distribution components in their wrapping until installation. Use dust caps and plugs to minimize exposure of components to soil and atmosphere and prevent disease from ingestion of contaminated water.

1. Identify re-circulation Tee assembly (1) and remove the dust cap from the stem connector.
2. In sequence, remove the dust plugs and caps from the QDISC connectors on three 1½ -inch x 20-foot M x F potable water hose assemblies (2) and connect the hoses in series to the Tee (1). Leave dust cap on last hose installed.
3. Remove the dust caps from the hypochlorination Tee assembly stem connector, and the end of the three 1½ -inch x 20-foot M x F potable water hose assemblies (2) installed in step 2. above. Remove the dust plugs from both ends of one 1½ -inch x 20-foot F x F (3) hose assembly and connect the hose to the hypochlorination Tee and the end of the three hoses (2) installed previously

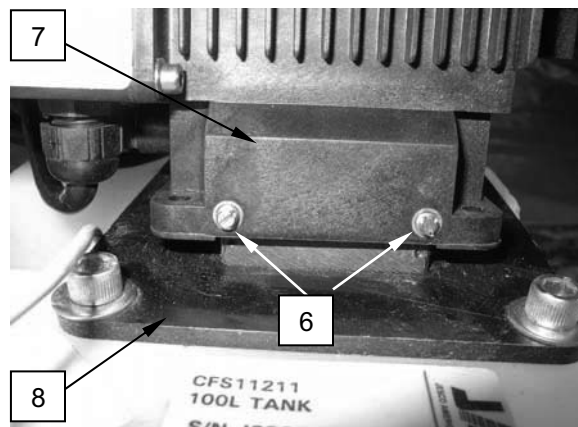
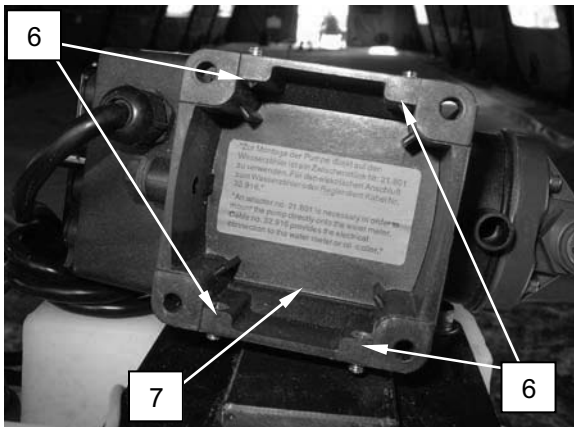


**Install Hypochlorinator**

1. Position the hypochlorinator (1), as shown, within 20 feet of the hypochlorination Tee assembly (2) on stable ground.
2. Extend output line (3) of the hypochlorinator (1) to the Tee (2). Thread the 1/4-inch line fitting (3) onto the ball valve (4) of the Tee fitting (5) and tighten.

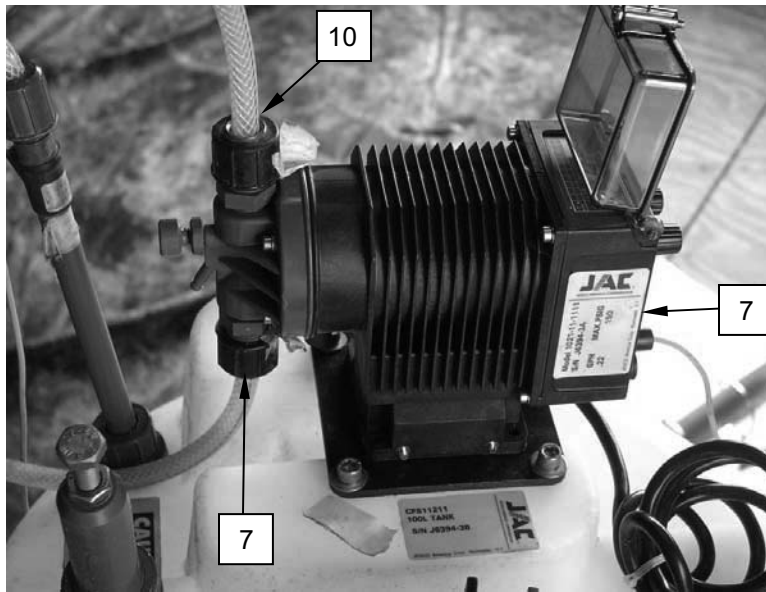


3. To mount pump to hypochlorinator tank, back off retaining screws (6) from pump (7) and place pump on mount (8). Secure with retaining screws.



4. Identify a nearby 120-V power source (PDISE) for hypochlorinator, but do not connect to power source yet.

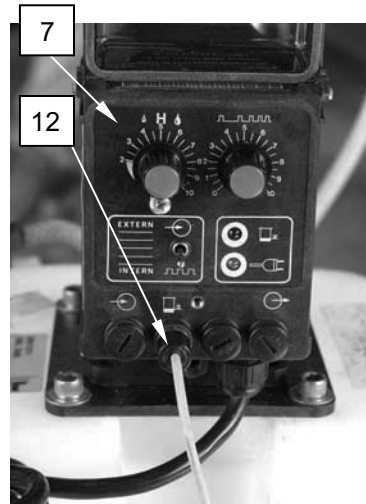
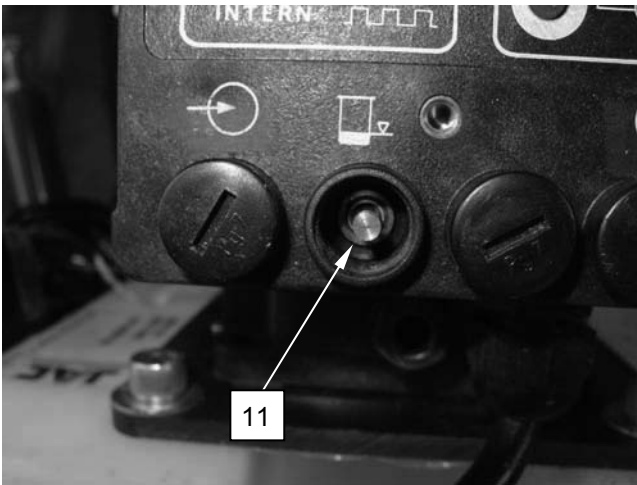
5. Connect suction (9) and discharge (10) hoses to hypochlorinator pump (7).



**NOTE**

It may be necessary to remove the pin (11) from the level connection.

6. Connect level control cable (12) to pump (7).



## CONNECTING USER FACILITIES TO POTABLE WATER SUPPLY

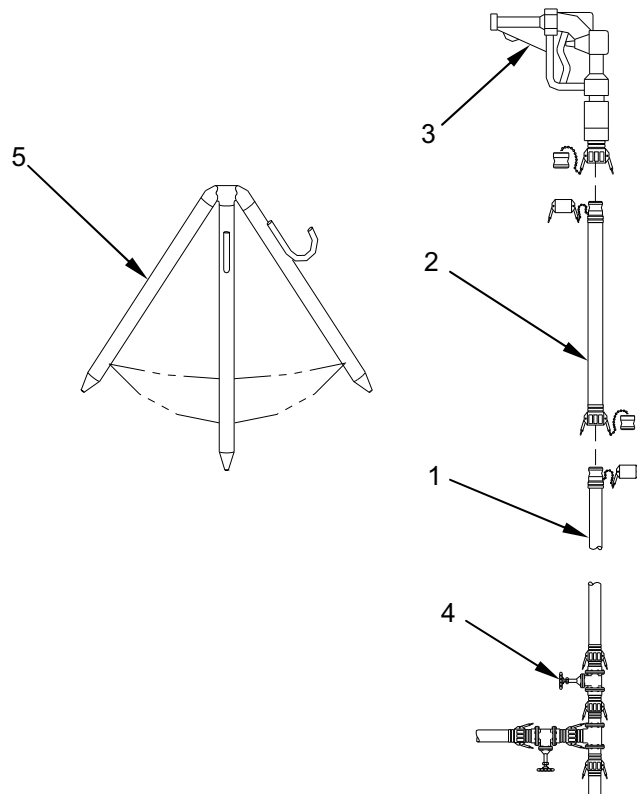
Personnel from subsystems serviced by each potable water distribution site will be responsible for making connections from staked points to their facilities. Specific instructions and lists of required materials are found later in this chapter, in the sections dedicated to each subsystem serviced. Water distribution section personnel should be ready to offer technical assistance where unique circumstances or deviations from standard layouts covered in this manual exist.

### ASSEMBLY AND PREPARATION FOR USE OF NOZZLE KITS

Understanding of, and compliance with, instructions described under Assembly of cam-lock type QDISC Couplings are required for this procedure. To assemble the nozzle kits shipped in TRICON 5B at designated locations, proceed as follows:

#### Assemble Large Nozzle Kits at Designated Locations

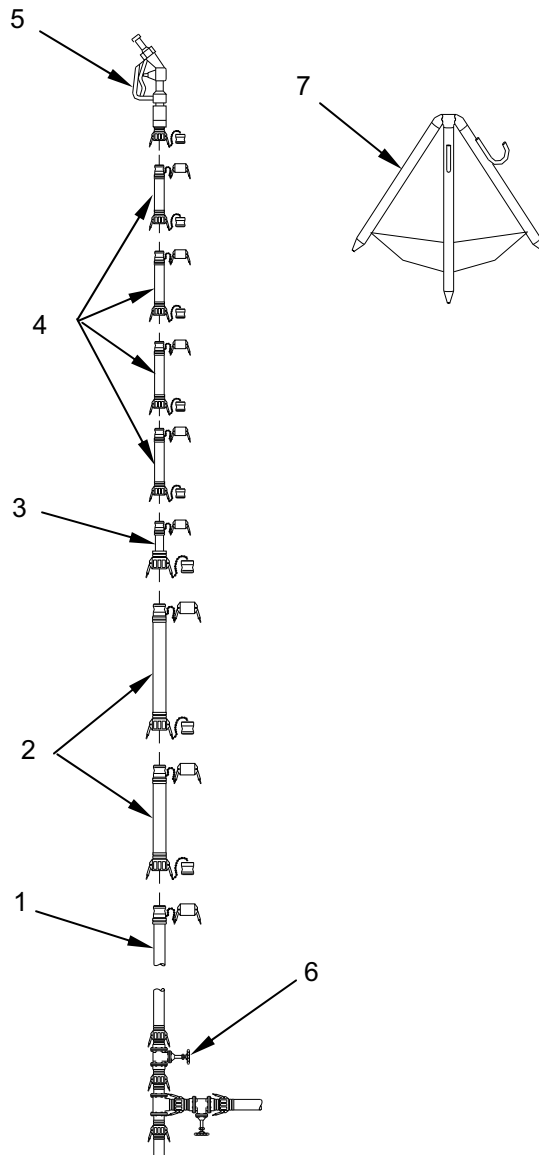
1. From end of hose (1) already installed, connect in series 1½-inch x 25-foot discharge hose (2), and 1½-inch nozzle (3). Ensure gate valve (4) is left in the closed position.
2. Place nozzle (3) on stand (5).





### Assemble Small Nozzle Kits at Designated Locations

1. From end of hose (1) already installed, connect in series two 1½-inch x 25-foot discharge hoses (2), 1½-inch x 1-inch reducer (3), four 1-inch x 10-foot discharge hoses (4), and 1-inch nozzle (5). Ensure gate valve (6) is left in the closed position.
2. Place nozzle (5) on stand (7).



### INITIAL OPERATION AND CHECK OF POTABLE WATER DISTRIBUTION SITE

1. If leaks are found during initial operation and leak check, recheck for proper assembly in accordance with appropriate paragraph above. If leaks are found from a component rather than a joint, replace that component. For other problems, refer to Operator Troubleshooting, WP 0057 00, or Unit Troubleshooting WP 0058 00.



### **WARNING**

Each potable water distribution site is to be sanitized in accordance with TB MED 577. Medical personnel must check potable water prior to use. Failure to do so may result in sickness or death to personnel resulting from contamination of water supply and/or equipment.

2. Before any potable water can be used, it must be certified by Army Preventive Medicine personnel.
3. The graywater collection subsystem must be ready for operation (refer to WP 0030 00) prior to operation of the water distribution subsystem.
4. All gate valves in potable water distribution site must be initially closed, and all unused hose ends must remain capped.
5. Prepare hypochlorinator for operation.



### **WARNING**

Calcium hypochlorite is toxic to skin and eyes. Do not ingest or inhale calcium hypochlorite dust particles. Stand upwind when handling hypo chloride granules. Wear eye protection, protective apron, respirator and gloves. Failure to observe this warning may result in serious injury to personnel from contact with calcium hypochlorite.

### **FIRST AID**

#### **Eye contact**

Promptly flush with large quantities of water for at least 15-minutes. Seek medical attention promptly. Skin contact: Brush off excess and flush with water for 15-minutes. Wash all contaminated clothing before reuse. Seek medical attention. Ingestion: Immediately drink large quantities of water and any common cooking oil. Do not induce vomiting. Seek medical attention promptly.

#### **Inhalation**

Remove victim to fresh air. Support respirator, if needed. Seek immediate medical attention. For artificial respiration, refer to FM 21-11.

### **NOTE**

Follow instructions provided with hypochlorinator to fill the 10-liter tank with a 5-gallon solution of 16 <sup>3</sup>/<sub>4</sub> -pounds of calcium hypochlorite and to fill to the 50-Liter mark.

### **Receiving Potable Water**

For initial and all subsequent water deliveries, proceed as follows:

### **NOTE**

Determining and recording source of potable water deliveries will be useful, since deliveries from the same source can be expected to have similar properties and can be treated similarly.

1. Determine and record geographic source of this water delivery.
2. Test and record the residual chlorine level of this supply using Water Quality Analysis Kit - Purification (WQAS-I). (Refer to TM 10-6630-246-12&P or use another suitable test kit.)

### **NOTE**

The residence time in the storage tank (the time required to remove or re-circulate all water in the tank with pump running continuously) is 6 hours and 40 minutes. Therefore, it is best to treat water as it is delivered to the tank.

A new tank will absorb some chlorine. If this is the first use of the tank, additional chlorination may be required to achieve the 2.5 PPM target in the tank.

3. Based on test results, adjust hypochlorinator to achieve a chlorine concentration in the tank of 2.5 PPM. (Refer to hypochlorinator technical documentation for additional guidance.)

### **Fill Potable Water Storage Tanks**

1. For initial operation and system check, each potable water tank should be filled with at least 5,000 gallons of potable water (tank height of approximately one foot). The supply (tank or municipal) is assumed to have sufficient head to fill tanks without any additional pumping.
2. Ensure gate valves (1) and (2) are closed.

### **NOTE**

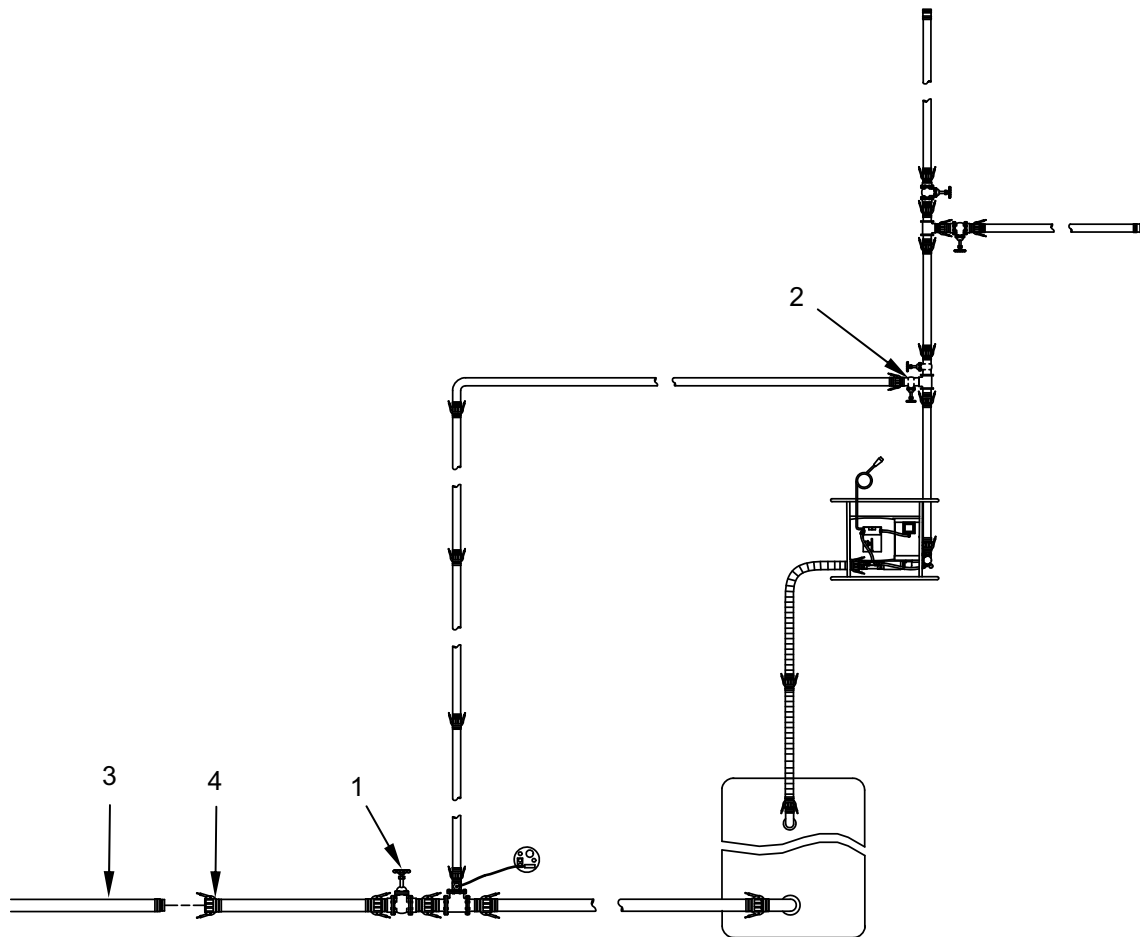
The accessory kit contains many adapters that will allow the operator to connect the water distribution system to various municipal water supply systems.

3. Connect water supply main (3) to hose (4). Be sure to connect or protect the dust plug removed while making connection.
4. Open gate valve (1).

### **CAUTION**

Do NOT allow height of tank to exceed four feet. Tank may rupture causing damage to surrounding equipment.

5. Allow tanks to fill to desired height (refer to tank instructions). Close gate valve (1) when filling is complete.
6. Remove main (3) and install dust plug onto hose (4).



### Prime Pump



### WARNING

Extreme care must be exercised throughout the priming procedure to ensure that contaminants are not allowed to enter system through open connections. Failure to observe this warning can result in death or sickness due to contamination of potable water supply.

### NOTE

The system may be primed using a small hose and gravity to siphon water from the tank with discharge elbow removed. However, whenever another source of clean water is available, use a clean bucket to prime the pump and suction hose.

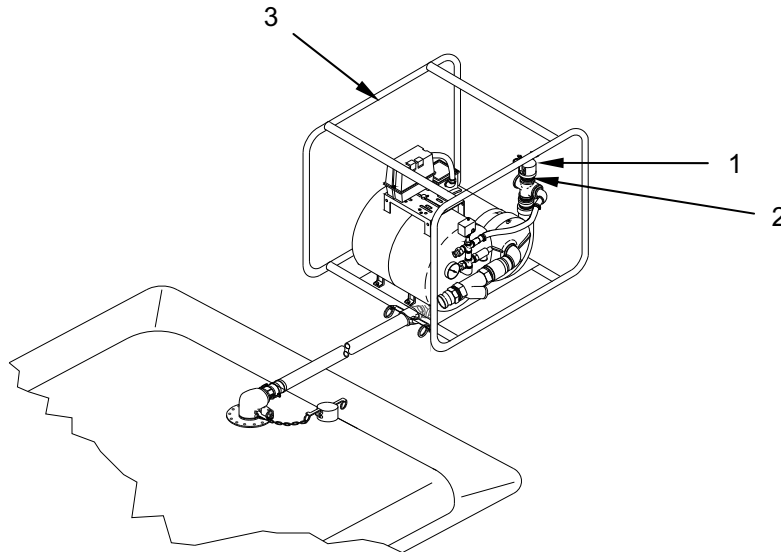
1. Remove cap (1) from priming port (2) on pump (3).
2. Use clean water supply to fill priming port completely (1).
3. When full, reinstall cap (1) onto priming port (2).

- Refer to TM 10-4510-208-13&P for pump (3) operating instructions.



### **WARNING**

Dust plug on priming port must be installed, closed and secured with locking levers. If not properly secured, dust plug and water will be expelled at high velocity when pump is started. Serious injury to personnel may result.



### **Initial Operation**

#### **NOTE**

The integral expansion tank switch will cycle the water pump on and off automatically in response to system pressure and demand.

- Ensure gate valve (1) is closed.
- Open gate valve (2).
- Start pump (3) in accordance with TM 10-4510-208-13&P.

#### **NOTE**

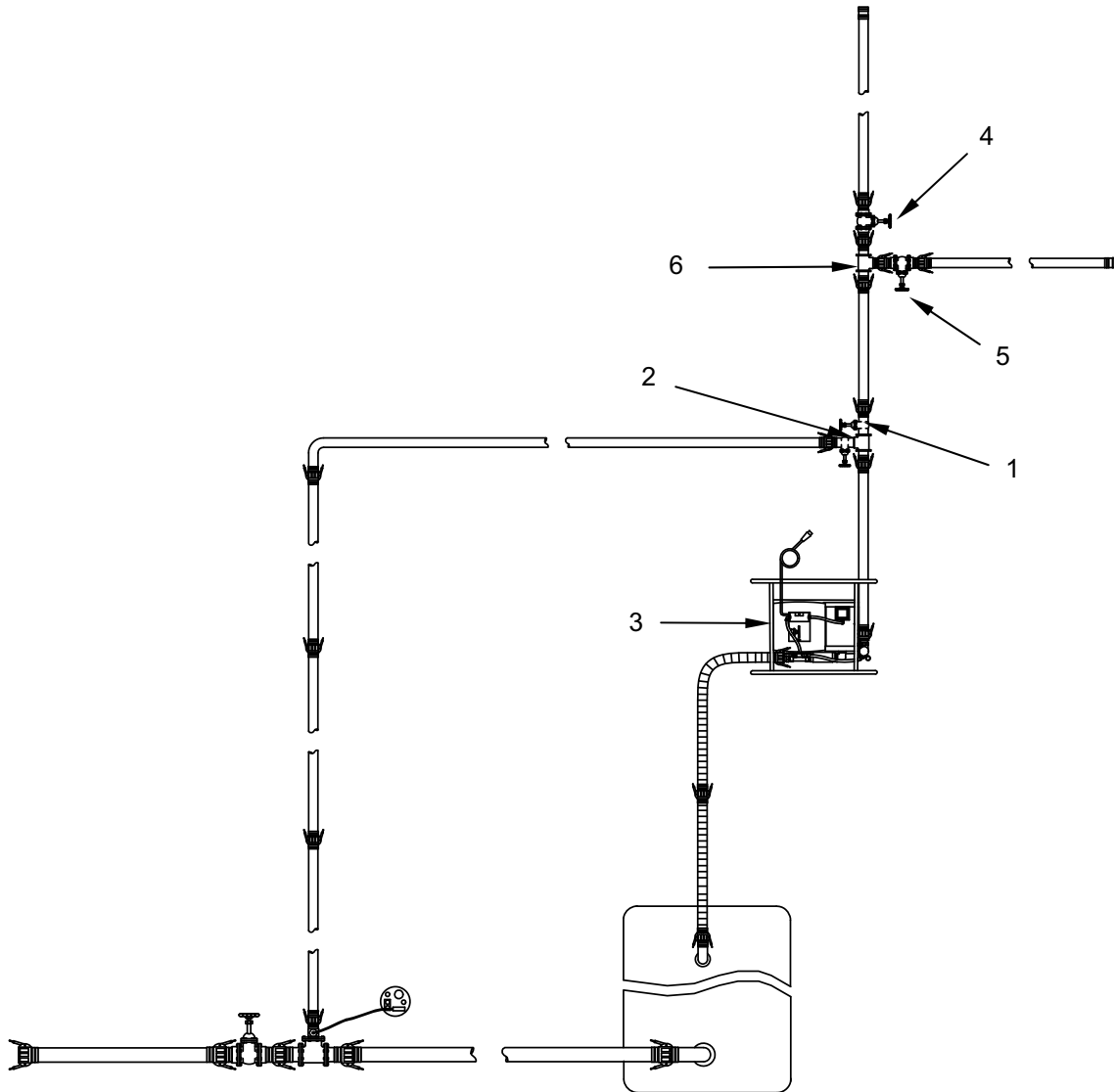
If water does not circulate, pump may not be primed sufficiently. Prime the pump again as described under Prime Pump in previous paragraph.

- Allow pump to re-circulate water for several minutes until expansion tank on pump assembly (3) is charged, which will stop pump automatically. Inspect recirculation loop and pump connections for leaks.
- Ensure gate valves (4) and (5) are closed.
- Open gate valve (1) to allow water to flow to Tee (6). Inspect for leaks.

**NOTE**

Do not open facility or nozzle kit gate valves until facilities or nozzle kits have been properly connected and users are ready to accept water.

7. Close gate valve (2). Slowly open valves (4) and (5) to each facility and/or nozzle kit to allow air to escape during filling procedure. Completely open valves (4) and (5) at each of the facilities serviced (food service, showers, latrines, laundry, and nozzle kits). Inspect the facility connection and nozzle kits for leaks. When water has displaced air in lines, close valves (4) and (5).



## System Disinfection

The system must be sanitized in accordance with TB MED 577. The following procedures incorporate the requirements outlined in TB MED 577 and should be followed as closely as possible to ensure that preventive medicine personnel can certify the system for use.



### **WARNING**

Coordinate with preventive medicine personnel to certify each water distribution site. Failure to observe this warning may result in sickness or death to personnel resulting from contaminated water supply. Monitor residual chlorine level at test valve, user facilities and nozzles. A residual concentration of 2 PPM is desired in tank (test valve on pump) and 1 PPM at facilities and nozzles.

1. Refill 20,000-Gallon Collapsible Fabric Tanks. Fill tanks to a height of 4 feet (approximately 20,000 gallons). Use procedures previously described under Fill Potable Water Storage Tanks.
2. Start the pump and circulate water through recirculation loop.
3. Open facility valves and open valves within each facility to flush out superchlorinated water. Place nozzle ends in sewage ejection pump (or other location able to accept water for drainage) and flush for 3 minutes. Do not immerse.
4. Collect water sample from sample port and check residual chlorine level. Continue to circulate water until residual chlorine level is 2 PPM in tank (tested at test valve on pump), and 1 PPM at facilities and nozzles. Adjust hypochlorinator as necessary.
5. Inform medical personnel that this site has completed sanitation procedures and is waiting for certification.

## OPERATING PROCEDURES FOR WATER DISTRIBUTION SUBSYSTEM



### **WARNING**

The Hypochlorinator is located in the fill leg of the potable water system. Continuous re-circulation causes elevated chlorine levels; bypassing re-circulation can cause depressed chlorine levels.

The operators must continuously monitor the chlorine level and adjust hypochlorination unit as required to maintain desired chlorine level in potable water. Failure to observe this warning can result in sickness or death to personnel resulting from poisoned water supply.

Monitor residual chlorine level at pump and operate hypochlorinator and re-circulation loop as required. Residual chlorine level should be maintained at 2 PPM at pump and at 1 PPM at facility discharges.

**Operation of Hypochlorinator**

Operate hypochlorination unit in accordance with TM 5-4610-228-13. The hypochlorinator does not have a 'feedback' capability, therefore, the operator must monitor residuals and manually adjust the hypochlorinator accordingly to maintain a safe potable water supply.

Under normal operation, the pump will be set on and off by expansion tank in response to demand and system pressure, and expansion tank and pump combination need not be manually operated. The pump switch may be manually set to OFF position if the system will not be used for extended periods of time (24-hours or more). During this period, water will not re-circulate, and chlorine levels may need to be adjusted prior to next use.

During normal operation, monitor the height of the 20,000 Gallon Collapsible Fabric Tanks and make sure height never exceeds four feet, nor drops below six inches. The tanks will require refilling during normal operations; arrange for water delivery as required.

**Operation of 400-Gallon Tank Trailers**

Operate the 400-gallon tank trailers in accordance with TM 9-2330-267-14&P. Using appropriate vehicle, tow tank trailers to one of the large nozzle sites. Fill trailers from nozzle. Position tank trailers as required throughout Force Provider module. As necessary, return tank trailers to large nozzle site to refill.

**Operation of Water Pump**

Operate the Containerized Shower water pump in accordance with TM 10-4510 208-13&P.

**END OF WORK PACKAGE**



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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS - FUEL STORAGE AND DISTRIBUTION SUBSYSTEM**

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**GENERAL**

This WP contains operating procedures for the fuel distribution subsystem.

Before assembly and preparation for use of the fuel distribution subsystem, the Force Provider module site selection, planning, preparation, staking and staging of the bulk fuel storage and distribution area must be completed. TRICON 7B must be staged as described in WP 0022 00. When the MSPP is deployed, TRICON 7C must also be staged as indicated.

The fuel distribution subsystem requires connection to a power source.

**SCOPE**

Assembly and preparation for use of the fuel distribution subsystem before operation consists of the following:

- Unpacking and inventory of equipment in TRICON 7B
- Layout and setup of bulk fuel storage and distribution facility
- Unpacking and inventory of equipment in TRICON 7C if MSPP is deployed
- Setup of Prime Power fuel facility if MSPP is deployed

**UNPACKING AND INVENTORY**

Unpack and inventory the bulk fuel storage and distribution subsystem components using Tables 1 (and 2 if applicable) of this WP.

Bulk fuel storage and distribution equipment is packed in the following container types and quantities:

- One TRICON type 7B (Fuel Distribution Kit)
- One TRICON type 7C (Prime Power Fuel Kit)

Refer to WP 0038 00 for location and disposition of MSCW equipment to be used with the fuel distribution subsystem.

To unpack the equipment, proceed as follows:

1. Open each container and check its contents against Tables 1 (and 2 if applicable), depending on the container type (the container type is stenciled on the container door as illustrated in WP 0021 00).
2. Remove each item from the container and set it aside, but not in the area where other equipment is to be positioned.
3. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.

**NOTE**

One PDISE M40 together with 1, 40/60A pigtail and two 50-foot 40/60A service cables must be obtained from TRICON 11C.

Table 1. Inventory List for Fuel Distribution Kit TRICON Type 7B.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	10
CONTAINER, REUSABLE, BULK EQUIPMENT, HALF SIZE	WP 0085 00, COEI, Item 6	2
<b>FUEL SYSTEM, FORCE PROVIDER</b>	WP 0091 00, COEI, Item 12	1
VALVE, ANGLE, 2 INCH (OR BALL VALVE, STRAIGHT)	TM 10-5419-206-23P	2
STAND ASSEMBLY, NOZZLE, DISTRIBUTION	TM 10-5419-206-23P	1
HOSE ASSEMBLY, QDISC, CAM-LOCK, 2 IN X 5 FT, M X F, FUEL	TM 10-5419-206-23P	6
FUEL DISTRIBUTION TEE ASSEMBLY	TM 10-5419-206-23P	1
COVER, FORCE PROVIDER FUEL SYSTEM	TM 10-5419-206-23P	1
NOZZLE, FUEL, FORCE PROVIDER FUEL SYSTEM	TM 10-5419-206-23P	2
ROD, GROUND, SECTIONAL, TYPE III, CLASS B, WITH ATTACHMENTS	TM 10-5419-206-23P	1
<b>TANK ASSEMBLY, FABRIC, COLLAPSIBLE, FUEL STORAGE, 10,000 GALLON</b>	WP 0091 00, COEI, Item 27	2
ELBOW, QDISC, CAM-LOCK, F X F, 4 IN	TM 10-5430-242-12&P	2
ELBOW, QDISC, CAM-LOCK, F X M, 4 IN	TM 10-5430-242-12&P	2
VENT FITTING ASSEMBLY	TM 10-5430-242-12&P	2
HOSE ASSEMBLY, QDISC, CAM-LOCK, 2 IN X 10 FT, BERM LINER	TM 10-5430-242-12&P	8
HOSE ASSEMBLY, QDISC, CAM-LOCK, 2 IN X 8 FT, TANK DRAIN	TM 10-5430-242-12&P	4
VALVE ASSEMBLY, BALL, 4 IN, FILLER/DISCHARGE	TM 10-5430-242-12&P	2
VALVE ASSEMBLY, BALL, 2 IN, TANK AND BERM LINER	TM 10-5430-242-12&P	8
HOSE ASSEMBLY, QDISC, CAM-LOCK, 4 IN X 10 FT, FILLER/DISCHARGE	TM 10-5430-242-12&P	2
O-RING	TM 10-5430-242-12&P	2
O-RING	TM 10-5430-242-12&P	4
LIFTING SLING, 2 IN X 10 FT	TM 10-5430-242-12&P	4
GASKET, FLANGE	TM 10-5430-242-12&P	4
GASKET, CAM-LOCK, 2 IN	TM 10-5430-242-12&P	2
GASKET, CAM-LOCK, 4 IN	TM 10-5430-242-12&P	4
TANK, FABRIC, COLLAPSIBLE, 10,000 GALLON	TM 10-5430-242-12&P	2
BERM LINER, 10K TANK	TM 10-5430-242-12&P	2
TECHNICAL MANUAL, TANK, FABRIC, 10,000 GALLON, FUEL STORAGE TM 10-5430-242-12&P	PACKED WITH TANK	2
<b>REPAIR KIT, EMERGENCY, TYPE II</b>	TM 10-5430-242-12&P	1
PATCH, MECHANICAL, 3 IN	TM 10-5430-242-12&P	2
PATCH, MECHANICAL, 5 IN	TM 10-5430-242-12&P	1
PATCH, MECHANICAL, 7-1/2 IN	TM 10-5430-242-12&P	6
CONTAINER, REPAIR KIT	TM 10-5430-242-12&P	1
PLUG, WOOD, 3 IN	TM 10-5430-242-12&P	1
PLUG, WOOD, 4-1/2 IN	TM 10-5430-242-12&P	2
PLUG, WOOD, 5-1/4 IN	TM 10-5430-242-12&P	1
RAZOR/KNIFE	TM 10-5430-242-12&P	1
INSTRUCTION SHEET, TYPE II	TM 10-5430-242-12&P	4
INSTRUCTION SHEET, TYPE III	TM 10-5430-242-12&P	2
<b>REMAINING FUEL DISTRIBUTION KIT ITEMS</b>		
SPOUT, FUEL CAN, FLEXIBLE	WP 0091 00, COEI, Item 25	10
LEAD, ELECTRICAL, GROUNDING CABLE	WP 0091 00, COEI, Item 15	12
VALVE ASSEMBLY, BALL, QDISC, 4 IN, MC X FC	WP 0091 00, COEI, Item 26	6

**Table 1. Inventory List for Fuel Distribution Kit TRICON Type 7B - Continued.**

Subcomponent	Where Listed/Illustrated	Qty
DRIP PAN, ABSORBANT, SPILL CLEANUP	WP 0091 00, COEI, Item 7	1
TEE ASSEMBLY, 4 INCH, FUEL, FC X FC X MC	WP 0091 00, COEI, Item 26	1
SORBENT, OIL (BOOM), 8 INCH X 10 FOOT	WP 0091 00, COEI, Item 24	1
ABSORBENT MATERIAL, SPILL CLEANUP	WP 0091 00, COEI, Item 8	1
FIRE EXTINGUISHER, DRY CHEMICAL, TYPE I, CLASS 1, SIZE 20	WP 0091 00, COEI, Item 11	4
PAIL, POLYETHYLENE, 5 GALLON WITH LID	WP 0091 00, COEI, Item 16	2
CAN, FUEL, MILITARY, PLASTIC, 5 GALLON, GREEN	WP 0091 00, COEI, Item 9	4
SHOVEL, ROUND POINT, D HANDLE	WP 0091 00, COEI, Item 23	6
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, 4 IN	WP 0091 00, COEI, Item 10	2
COUPLING HALF, Q-DISC, CAM LOCK, PLUG, TYPE X, 4 IN	WP 0091 00, COEI, Item 18	10
REDUCER, QDISC, CAM-LOCK, 2 IN FC X 4 IN MC, AL	WP 0091 00, COEI, Item 21	12
REDUCER, QDISC, CAM-LOCK, 4 IN FC X 2 IN MC, AL	WP 0091 00, COEI, Item 19	6
REDUCER, QDISC, CAM-LOCK, 2 IN FC X 1-1/2 IN MC, AL	WP 0091 00, COEI, Item 20	1
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM TM 10-5419-206-13	WP 0091 00, BII, Item 3	1
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM TM 10-5419-206-23P	WP 0091 00, BII, Item 4	1
ROD, GROUND, SECTIONAL, TYPE III, CLASS B, WITH ATTACHMENTS	WP 0091 00, COEI, Item 22	8

**Table 2. Inventory List for Prime Power Fuel Kit TRICON Type 7C.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL	WP 0085 00, COEI, Item 9	3
<b>TANK ASSEMBLY, FABRIC, COLLAPSIBLE, FUEL STORAGE, 10,000 GALLON</b>	WP 0091 00, COEI, Item 27	2
ELBOW, QDISC, CAM-LOCK, F X F, 4 IN	TM 10-5430-242-12&P	2
ELBOW, QDISC, CAM-LOCK, F X M, 4 IN	TM 10-5430-242-12&P	2
VENT FITTING ASSEMBLY	TM 10-5430-242-12&P	2
HOSE ASSEMBLY, QDISC, CAM-LOCK, 2 IN X 10 FT, BERM LINER	TM 10-5430-242-12&P	8
HOSE ASSEMBLY, QDISC, CAM-LOCK, 2 IN X 8 FT, TANK DRAIN	TM 10-5430-242-12&P	4
VALVE ASSEMBLY, BALL, 4 IN, FILLER/DISCHARGE	TM 10-5430-242-12&P	2
VALVE ASSEMBLY, BALL, 2 IN, TANK AND BERM LINER	TM 10-5430-242-12&P	8
HOSE ASSEMBLY, QDISC, CAM-LOCK, 4 IN X 10 FT, FILLER/DISCHARGE	TM 10-5430-242-12&P	2
O-RING	TM 10-5430-242-12&P	2
O-RING	TM 10-5430-242-12&P	4
LIFTING SLING, 2 IN X 10 FT	TM 10-5430-242-12&P	4
GASKET, FLANGE	TM 10-5430-242-12&P	4
GASKET, CAM-LOCK, 2 IN	TM 10-5430-242-12&P	2
GASKET, CAM-LOCK, 4 IN	TM 10-5430-242-12&P	4
TANK, FABRIC, COLLAPSIBLE, 10,000 GALLON	TM 10-5430-242-12&P	2
BERM LINER, 10K TANK	TM 10-5430-242-12&P	2
TECHNICAL MANUAL, TANK, FABRIC, 10,000 GALLON, FUEL STORAGE TM 10-5430-242-12&P	PACKED WITH TANK	2

Table 2. Inventory List for Prime Power Fuel Kit TRICON Type 7C - Continued.

Subcomponent	Where Listed/Illustrated	Qty
<b>REPAIR KIT, EMERGENCY, TYPE II</b>	TM 10-5430-242-12&P	2
PATCH, MECHANICAL, 3 IN	TM 10-5430-242-12&P	2
PATCH, MECHANICAL, 5 IN	TM 10-5430-242-12&P	2
PATCH, MECHANICAL, 7-1/2 IN	TM 10-5430-242-12&P	4
CONTAINER, REPAIR KIT	TM 10-5430-242-12&P	2
PLUG, WOOD, 3 IN	TM 10-5430-242-12&P	2
PLUG, WOOD, 4-1/2 IN	TM 10-5430-242-12&P	2
PLUG, WOOD, 5-1/4 IN	TM 10-5430-242-12&P	2
RAZOR/KNIFE	TM 10-5430-242-12&P	2
INSTRUCTION SHEET, TYPE II	TM 10-5430-242-12&P	2
INSTRUCTION SHEET, TYPE III	TM 10-5430-242-12&P	2
<b>REMAINING PRIME POWER FUEL KIT ITEMS</b>		
SPOUT, FUEL CAN, FLEXIBLE	WP 0091 00, COEI, Item 25	15
VALVE ASSEMBLY, BALL, QDISC, 4 IN, MC X FC	WP 0091 00, COEI, Item 26	2
DRIP PAN, ABSORBANT, SPILL CLEANUP	WP 0091 00, COEI, Item 7	1
SORBENT, OIL (BOOM), 8 INCH X 10 FOOT	WP 0091 00, COEI, Item 24	1
ABSORBENT MATERIAL, SPILL CLEANUP	WP 0091 00, COEI, Item 8	4
FIRE EXTINGUISHER, DRY CHEMICAL, TYPE I, CLASS 1, SIZE 20	WP 0091 00, COEI, Item 11	2
CAN, FUEL, MILITARY, PLASTIC, 5 GALLON, GREEN	WP 0091 00, COEI, Item 9	15
SHOVEL, ROUND POINT, D HANDLE	WP 0091 00, COEI, Item 23	1
HOSE ASSEMBLY, NON-COLLAPSIBLE, RUBBER, LIQUID FUEL	WP 0091 00, COEI, Item 13	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, EPT, TYPE VII, 1-1/2 IN, AL	WP 0091 00, COEI, Item 14	2
REDUCER, QDISC, CAM-LOCK, 2 IN FC X 4 IN MC, AL	WP 0091 00, COEI, Item 21	2
REDUCER, QDISC, CAM-LOCK, 2 IN FC X 1-1/2 IN MC, AL	WP 0091 00, COEI, Item 20	2
REDUCER, QDISC, CAM-LOCK, 4 IN FC X 2 IN MC, AL	WP 0091 00, COEI, Item 19	2

## ASSEMBLY AND PREPARATION FOR USE OF BULK FUEL DISTRIBUTION FACILITY



### WARNING

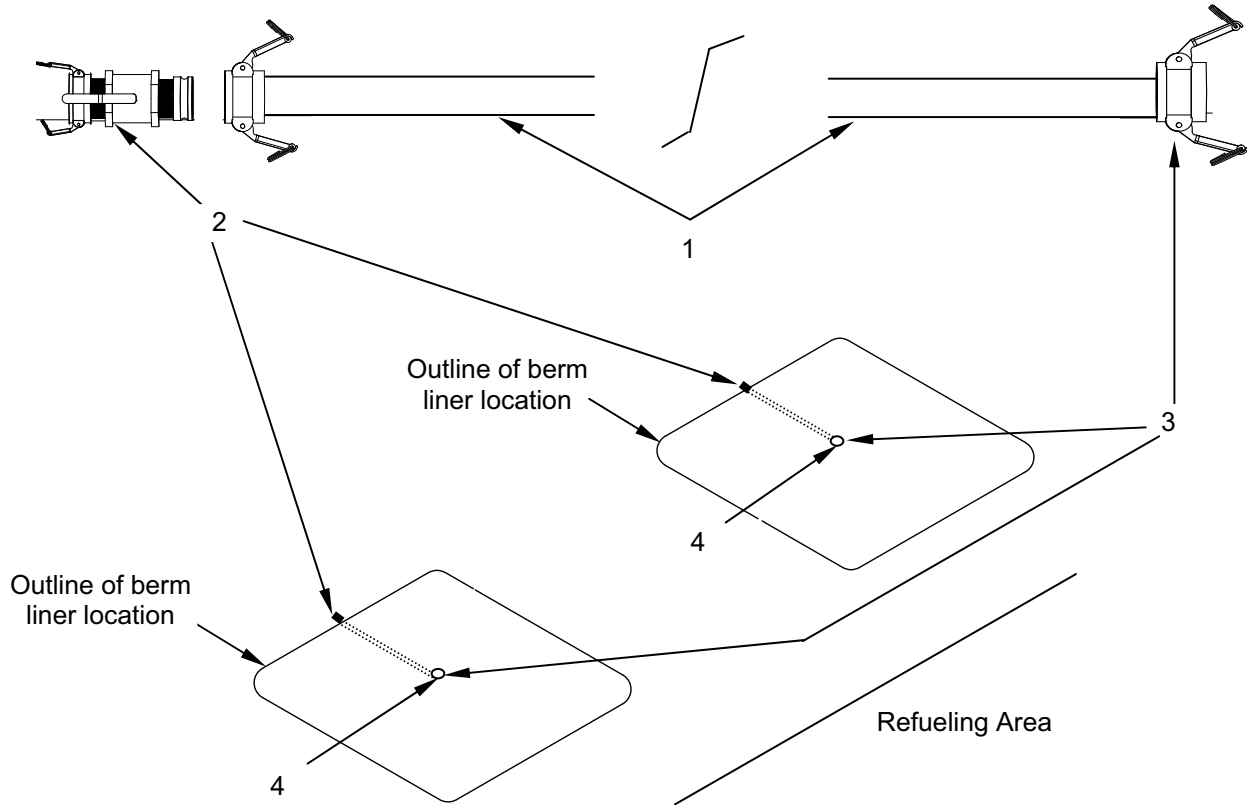
Do not touch cold metal surfaces with bare hands. Always wear gloves when operating gate valves, fill nozzles or any other metal control device. Painful injuries may result from touching cold metal surfaces with bare hands.

The bulk fuel distribution facility consists of two 10,000-Gallon fuel storage tanks placed on berm liners and surrounded by berms located 14 feet apart. Both tanks are connected to the Force Provider Fuel System (FPFS) through a fuel distribution Tee assembly and a series of fuel hoses. Assembly and general procedures for use of the tank assemblies (P/N RCF-10-K-F-OB) are described in TM 10-5430-242-12&P. This WP provides procedures unique to the Force Provider System. Equipment required to assemble and operate the bulk fuel distribution facility is shipped in TRICON type 7B (Fuel Distribution Kit).

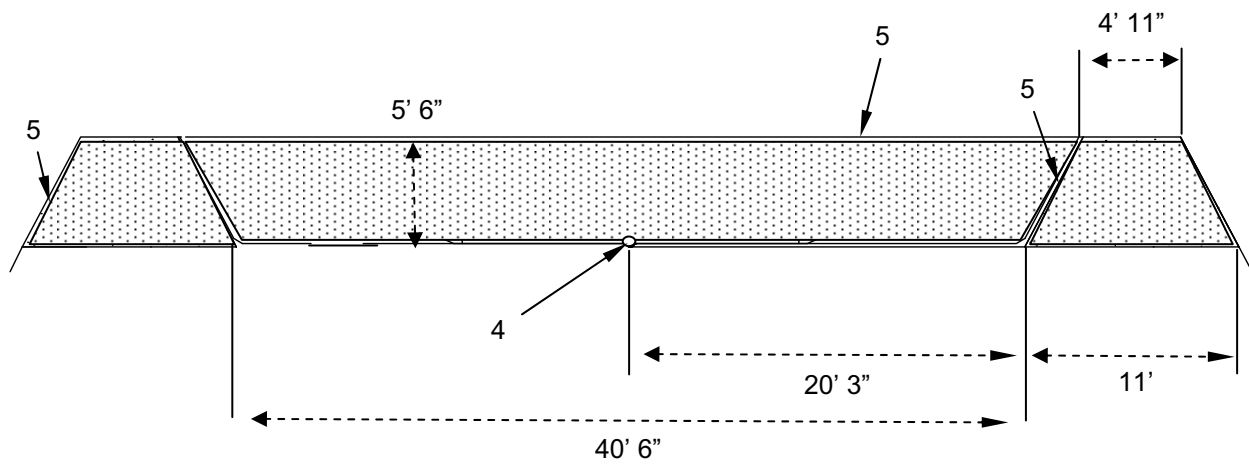
### Assembly and Preparation for Use of 10,000-Gallon Tanks

1. Assemble four, 2-inch x 10-foot berm liner drain hoses (1) for each tank and connect a 2-inch ball valve (2) to the male end of the assembled hoses. (Hoses and valves are part of the 10k-Gallon Tank Assembly.)

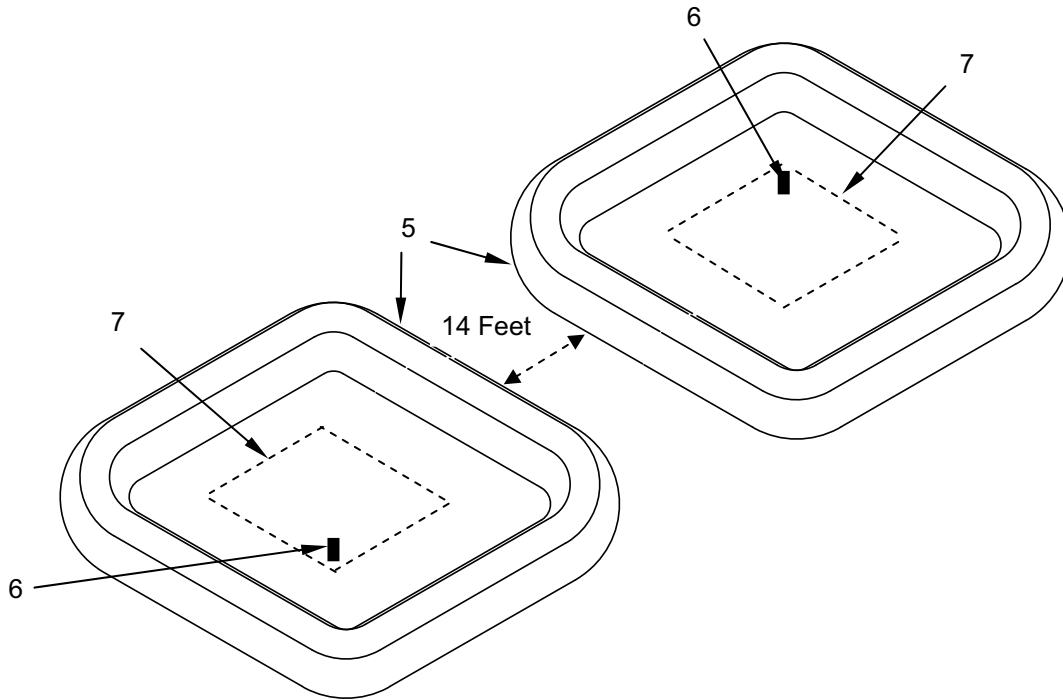
2. Place the female end of the assembled hoses (3) at center of tank location (4), around which the berm is to be constructed.
3. Extend the ball valve-end (2) of the assembled hoses in the opposite direction of the designated refueling area to the edge of the berm as shown. Refer to WP 0022 00 for Fuel Storage and Distribution Site staking diagram.



4. Construct berm (5) around the center of each tank location (4) to the dimensions shown below. Refer to WP 0022 00 for Fuel Storage and Distribution Site staking diagram.



5. Ensure that the two berms (5) are fourteen feet apart and that there is vehicular access to the vicinity of the location of the fill port(s) (6) of the tanks (7).



**WARNING**

The berm liners are heavy. To avoid injuries, use lifting equipment to put them in place.

6. Place berm liners (8) into position inside prepared berms and connect berm liner drain hose assembly as described in TM 10-5430-242-12&P.

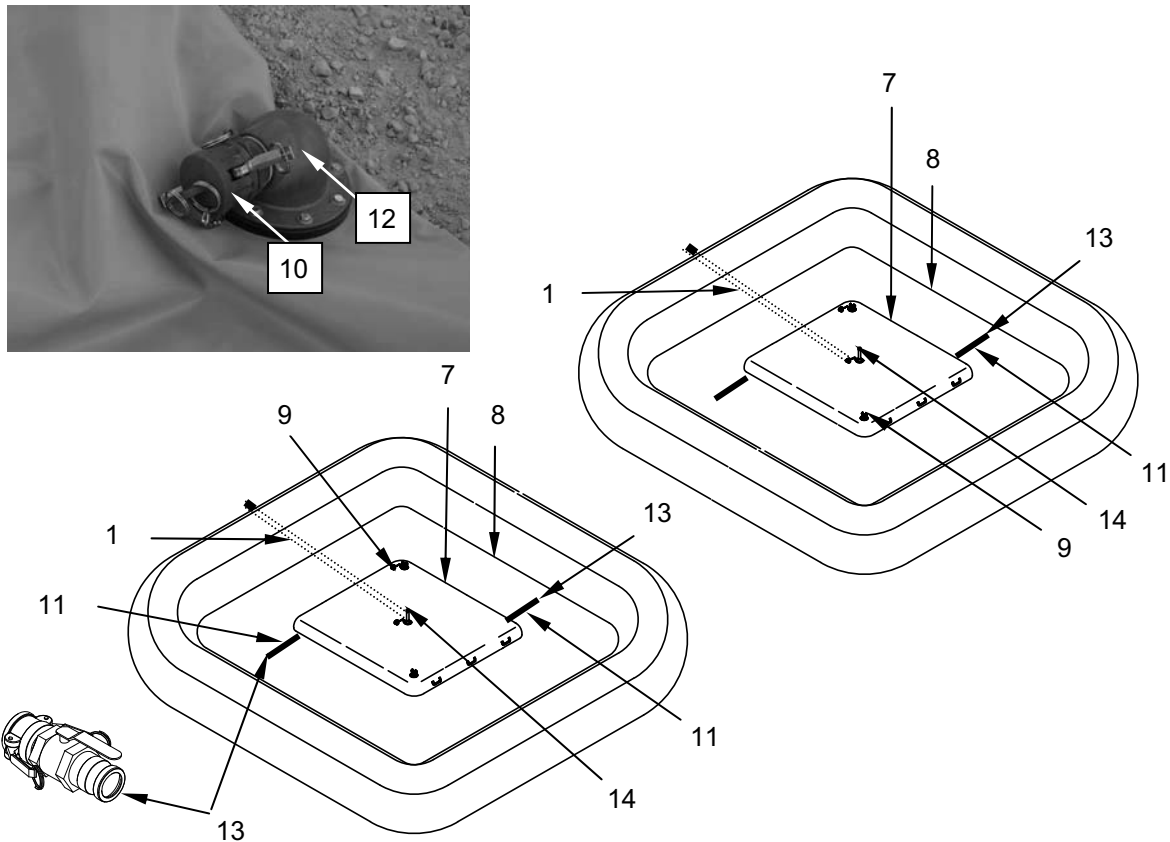


**WARNING**

The 10,000-gallon fabric tanks are heavy. To avoid injuries, use lifting equipment to put them in place.

7. Place each 10,000-Gallon collapsible fabric tank (7) in position over liner (8) and liner drain hose assembly (1). Ensure intended discharge port(s) (9) are positioned as shown.
8. Remove the dust cap (10) and install two, 2-inch x 8-foot hoses (11) onto the elbow fitting (12) of each of the two drains per tank. Install a 2-inch ball valve (13) onto the end of the hoses to complete the tank drain assembly. (Hoses and valves are part of the 10k-Gallon Tank Assembly.)

9. Install a tank vent assembly (14) into each tank as described in TM 10-5430-242-12.



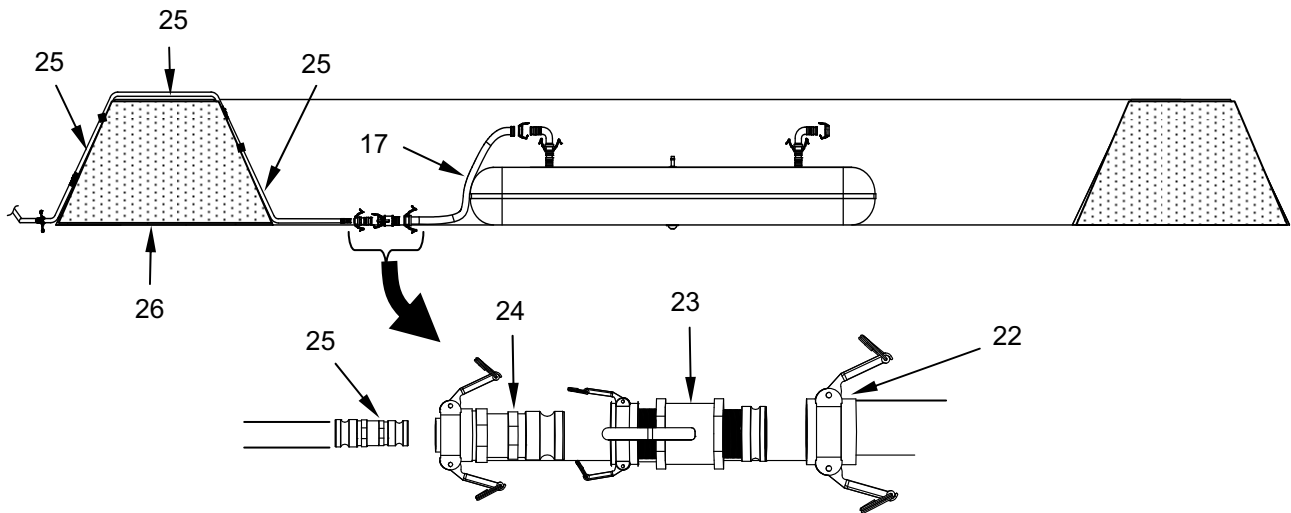
**WARNING**

Do not touch cold metal surfaces with bare hands. Always wear gloves when operating valves, fill nozzles or any other metal control device. Painful injuries may result from touching cold metal surfaces with bare hands.

10. Remove dust cap (15) from 4-inch fill port (16).
11. Remove dust cap (17) from 4-inch discharge port (18).
12. Install 4-inch female x female elbow fitting (19) onto 4-inch male fill port (16).
13. Install 4-inch female x male elbow fitting (20) onto 4-inch male discharge port (18).
14. Install a 4-inch female x male ball valve (21) onto the fill port elbow fitting (16).
15. Install 4-inch x 10-foot hose (19) onto 4-inch male discharge port elbow fitting (20).



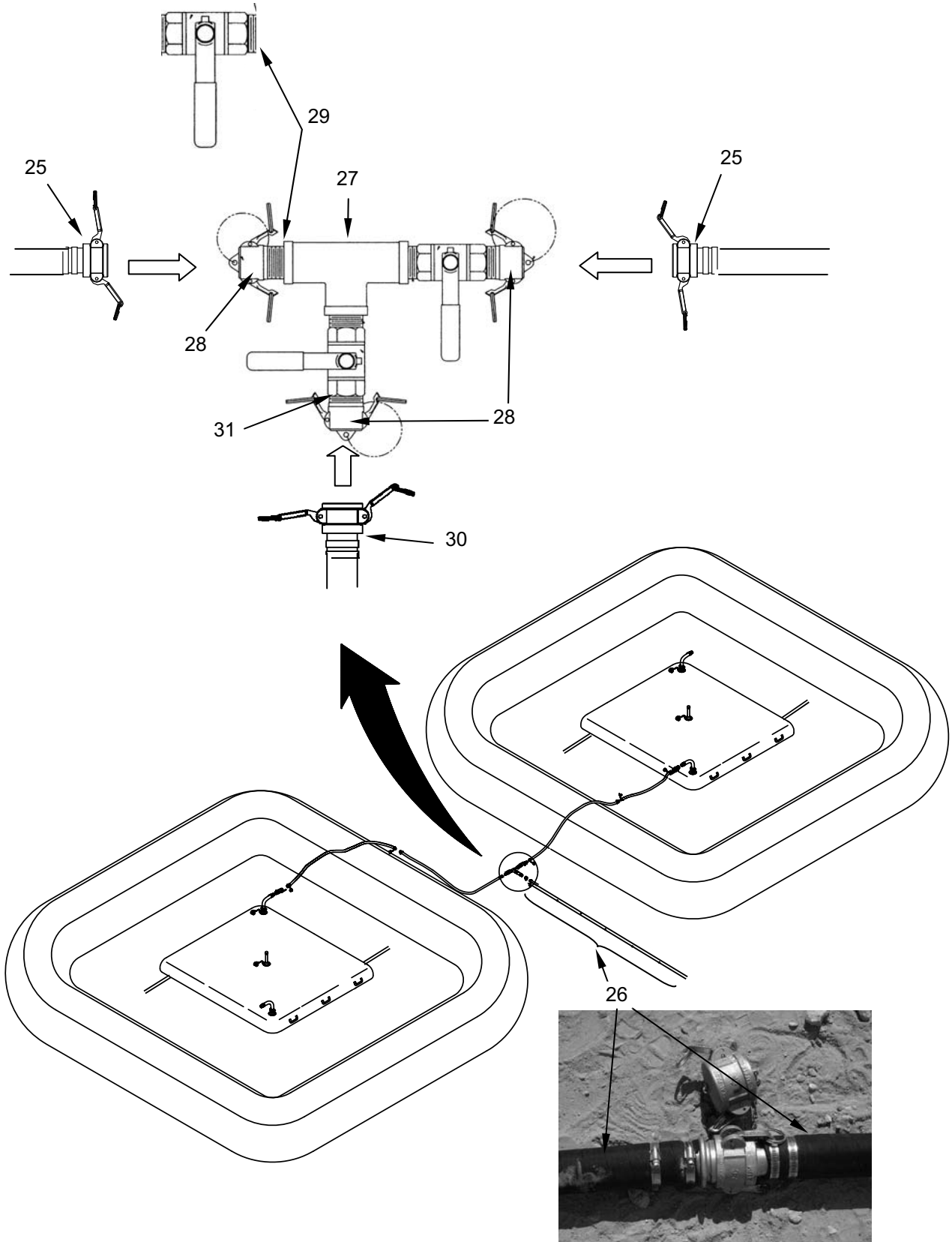
16. Install a 4-inch ball valve (23) onto the end of the 4-inch x 10-foot discharge hose (22).
17. Install a 4-inch x 2-inch reducer (24) onto the 4-inch ball valve (23).
18. Install three, 2-inch x 10-foot discharge hoses (25) onto the reducer (24).
19. Lay the three assembled 2-inch x 10-foot hoses (25) across the berm (26) as shown.



20. Obtain Fuel Distribution Tee (27) (shipped in FPFS equipment tray) and remove three coupling half caps (28).
21. Connect a 2-inch ball valve (29) onto the left arm of the Fuel Distribution Tee (27) as shown.
22. Connect the 2-inch discharge hose assemblies (one from each tank) (25) to the ball valves connected to the 2-inch Fuel Distribution Tee (27) arms as shown. (The 2-inch ball valve on the right arm of the Fuel Distribution Tee (27) is shipped assembled.)



23. Assemble six, 2-inch x 5-foot hoses (30) furnished with the FPFS in sequence and connect the assembled hoses to the Fuel Distribution Tee stem (31) as shown.



**ASSEMBLY AND PREPARATION FOR USE OF FUEL DISTRIBUTION POWER SUPPLY****WARNING**

Power to a Force Provider Module can be provide by a commercial source, or generated by either the MSPG, or MSPP. In each case, power will be supplied to the PDISE for distribution to the user. It is the responsibility of individual subsystem personnel to lay out and assemble the requisite cables to the PDISE for connection. Personnel of the Force Provider Company Facilities Support Section are responsible for facilitating power supply to the PDISE. Only qualified personnel must connect user cables to the PDISE and pigtails to the power source. Failure to observe this warning may result in severe injury or death by electrocution.

Obtain the following power supply equipment from TRICON 11C:

**Table 3. Power Supply Equipment.**

Quantity	Component	Part Number
1	Distribution Center, PDISE M40	13226E7028
1	Cable, Pigtail, 60-A, 4-Ft	13226E7019
2	Cable Assembly, 40/60-A, 50-Ft	13226E7023-2

If floodlights are to be used with the fuel storage and distribution site as described in WP 0035 00, the following additional equipment must be obtained from TRICON 11C:

**Table 4. Additional Power Supply Equipment.**

Quantity	Component	Part Number
3	Receptacle Box	13226E7040
3	Cable Assembly, 20-A, 50-Ft	13226E7032-1
3	Cable Assembly, 20-A, 25-Ft	13226E7032-2

1. Position the PDISE-M40 (1) behind the staked location of the FPFS.

**CAUTION**

Keep cables away from vehicle traffic. Damage to cables may result.

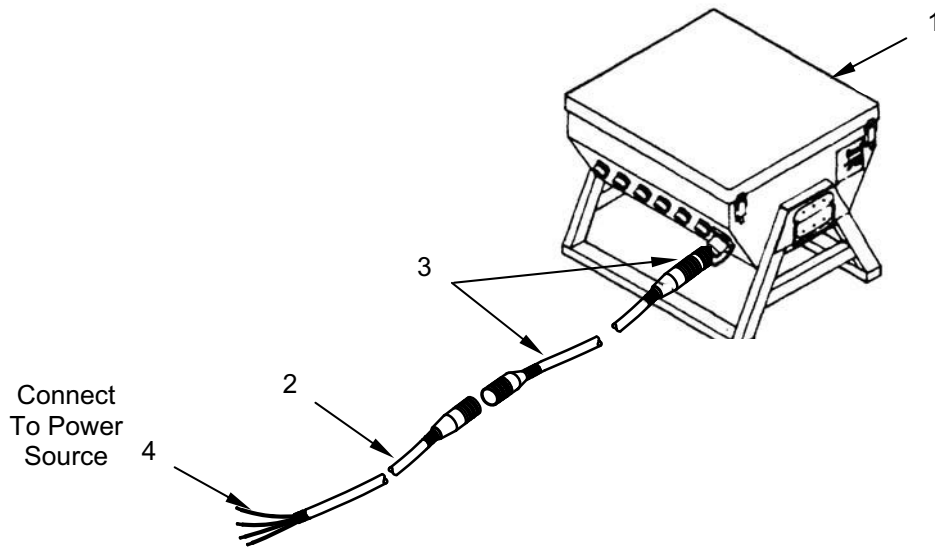
**NOTE**

When assembling power group components, follow procedures for laying out cables from power source out to point of use, then connecting cables from point-of-use back to power source. Male ends of cables always go toward power source.

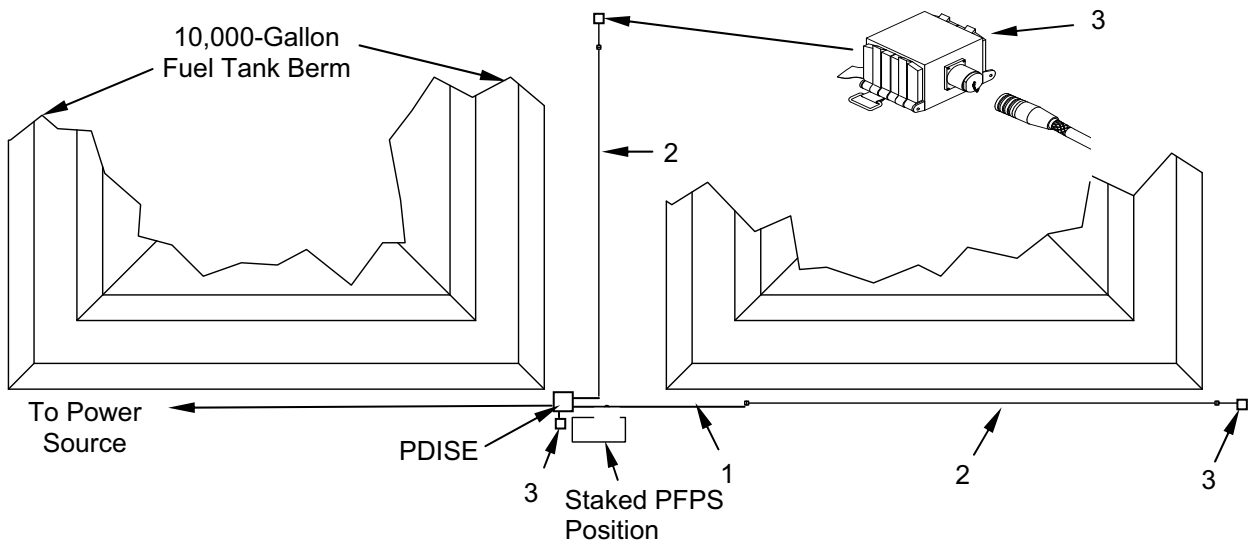
2. Position the 4-foot/60-A pigtail (2) and one 50-foot/40/60-A service cable (3) on the power source side of the PDISE-M40 (1). These cables will be laid out and connected to the PDISE-M40 (1) and power source (4) by facilities support section personnel.

**NOTE**

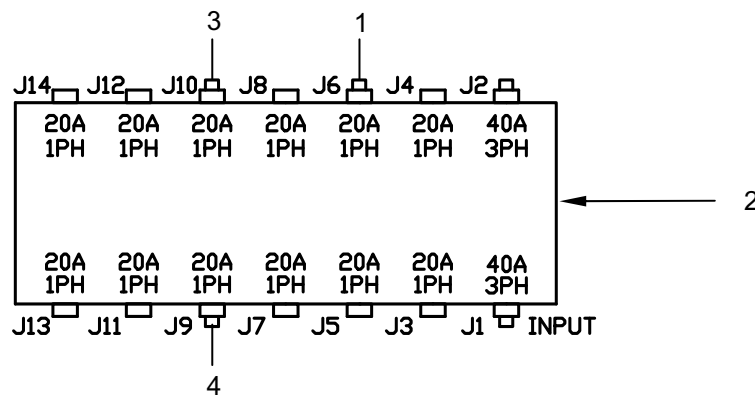
If the distance between the power source and PDISE is greater than 50-feet, lay out a second 50-foot 40/60-A service cable.



3. If floodlights are to be used, lay out one 25-foot, 20-A cable (1) and two 50-foot, 20-A cables (2) as shown. Position receptacle boxes (3) as shown. Connect receptacle boxes and cables together.



4. Connect the 25-foot, 20-A cable (1) to the J6 Connector on the PDISE M40 (2) and the 50-foot, 20-A cable (3) to the J10 Connector as shown. Connect the receptacle box (4) to the J9 Connector.



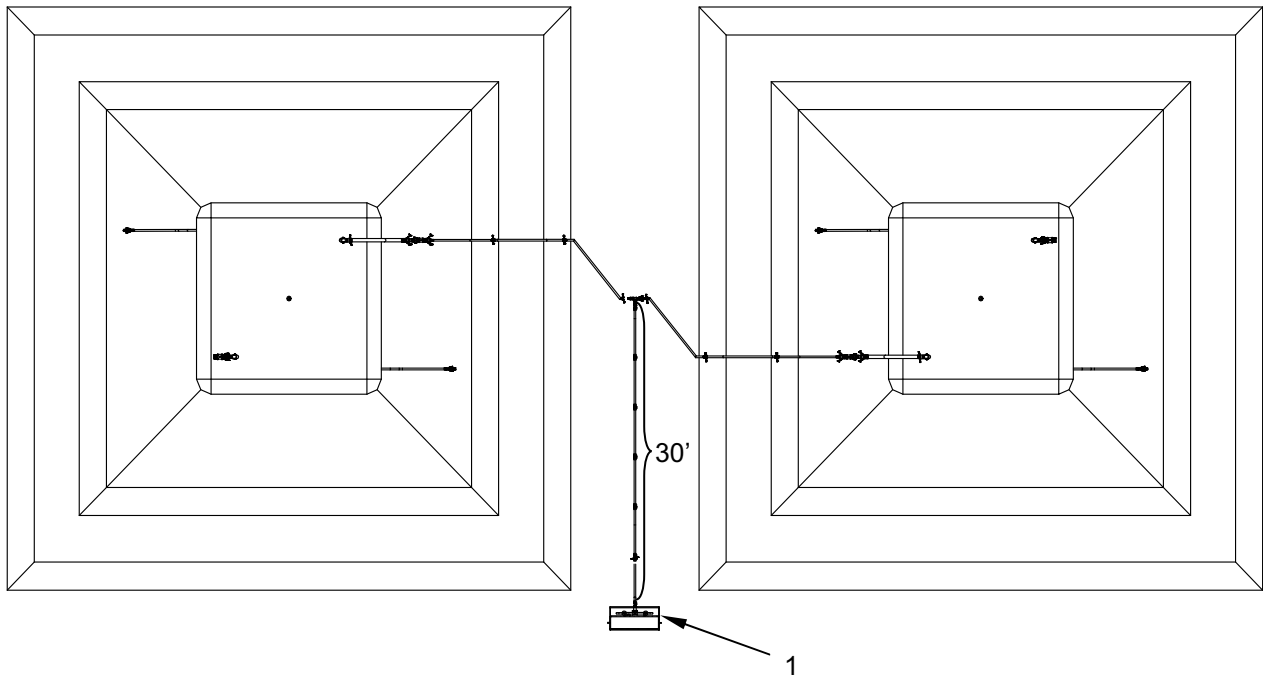
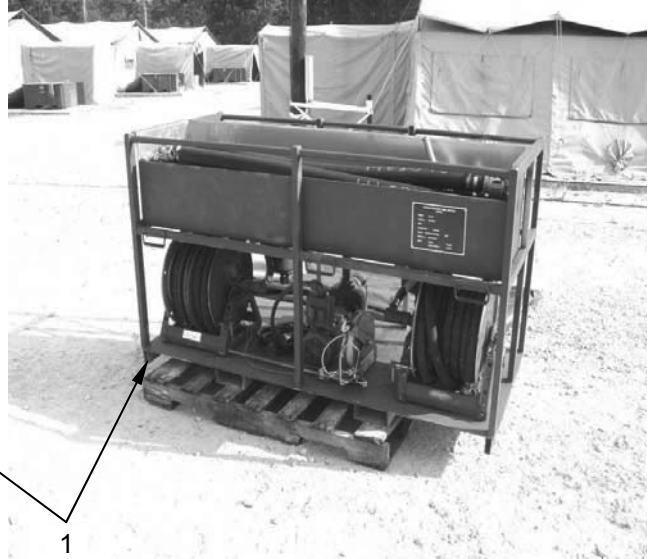
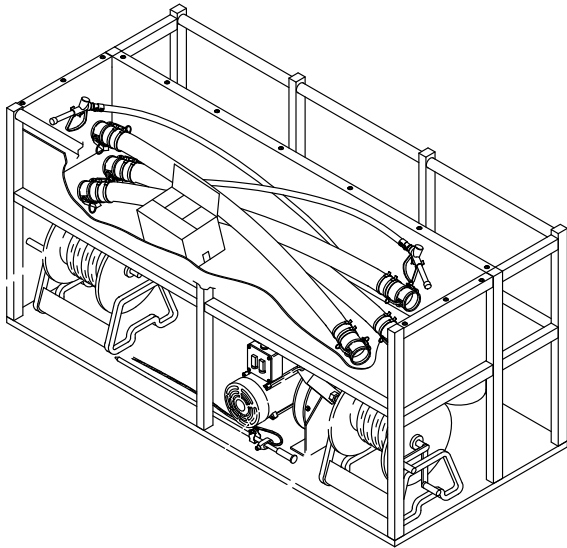
**Assembly and Preparation for Use of FPFS Pump Assembly**



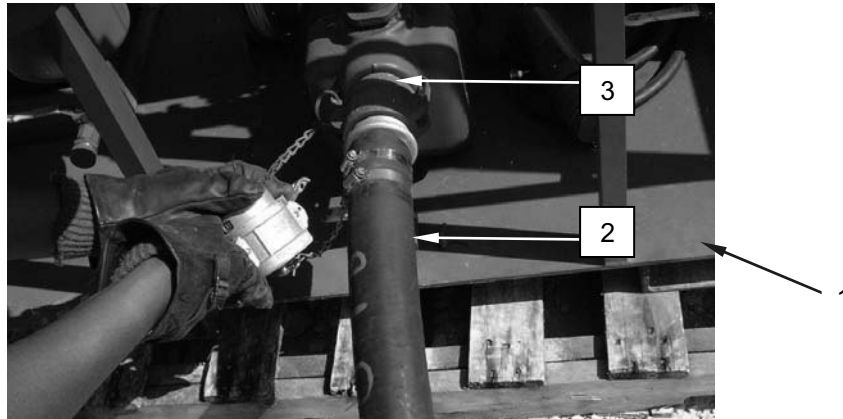
**WARNING**

Three personnel are required to lift hoses and components in top tray. Four personnel are required to lift pumping assembly. Failure to observe this warning may result in injury to personnel.

1. Position FPFS fuel pump assembly (1) where indicated by staking. This should be no more than 30 feet from the fuel distribution Tee.



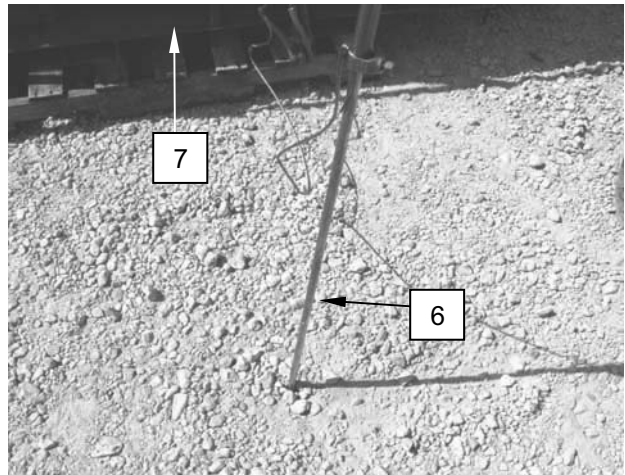
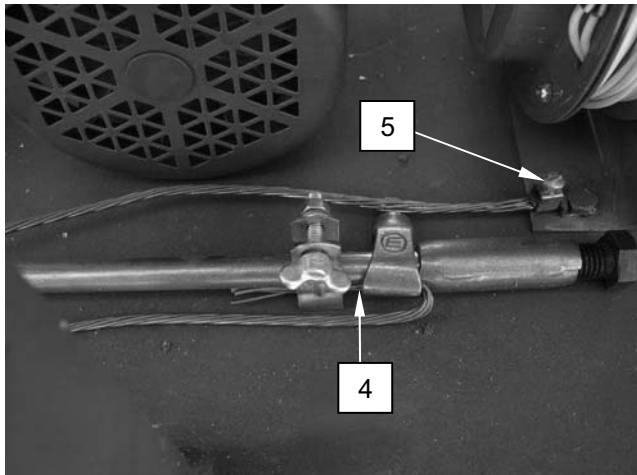
2. Connect the end of the six, 2-inch x 5-foot assembled fuel hoses (2) to the input coupling (3) on the FPFS fuel pump assembly (1) as shown.



**WARNING**

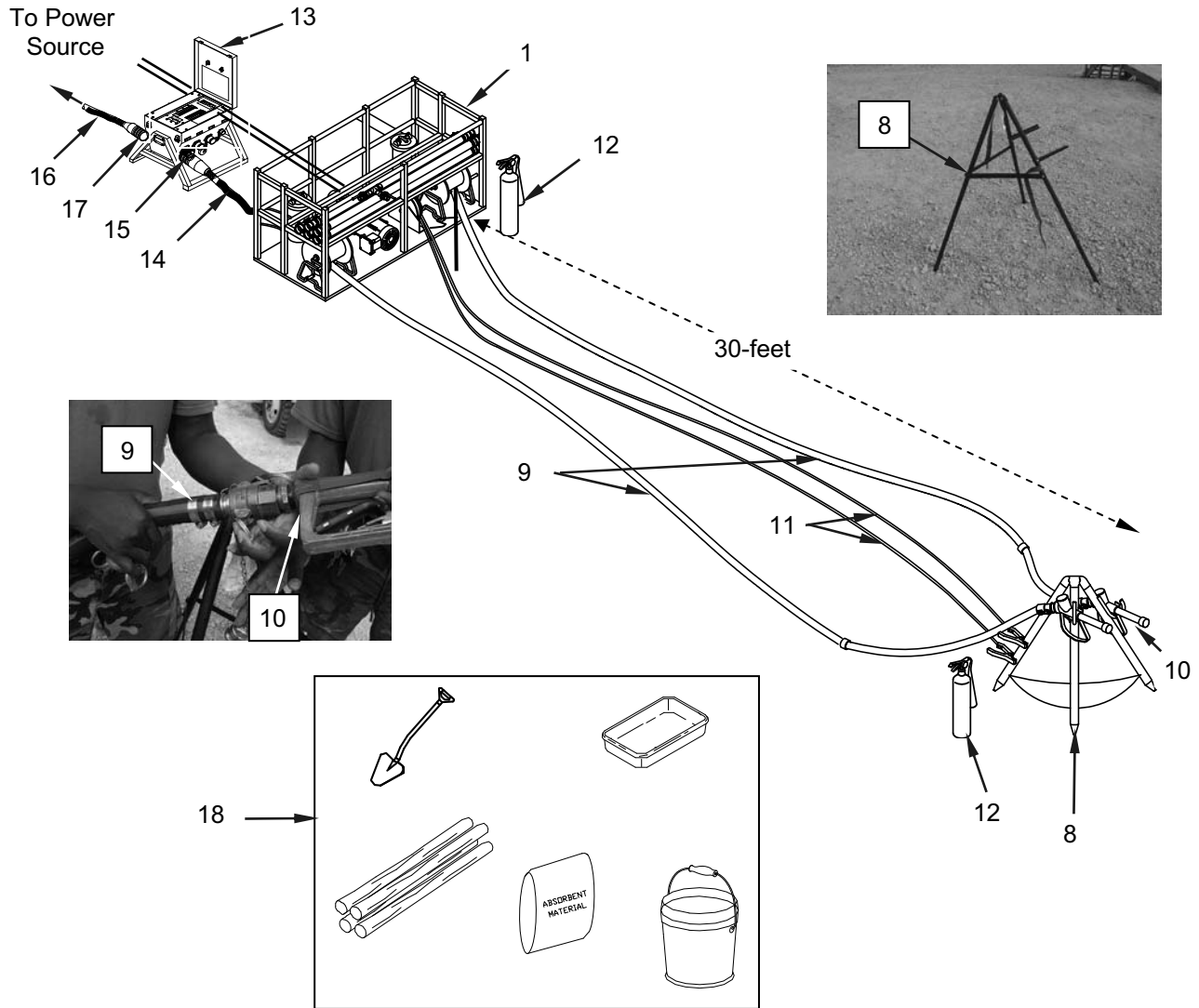
Extreme care must be taken to prevent injury to fingers or hands when driving ground rods. Do not position hands between ram and drive collar. Gloves should be worn.

3. Remove ground rod assembly (4) from FPFS, leaving lead attached to ground reel assembly (5) as shown. (Two additional sections are packed in the equipment tray.) Install rod (6) at least three feet into the ground as shown in front of the FPFS frame (7).



4. Place nozzle stand (8) approximately 30 feet away from the FPFS (1).
5. Unwind the fuel hoses (9) from the hose reel and install the fuel nozzles (10) onto the hoses.
6. Place nozzles (10) on the stand (8).
7. Reel out ground cables (11) and clamp the cables to the nozzle stand (8) until needed.
8. Position 20-pound dry chemical fire extinguishers (12) in general vicinity of the nozzle stand (8), and a second near the FPFS pump assembly (1).
9. Position PDISE M-40 (13) not more than 6 feet behind the FPFS (1) as shown.

10. Connect FPFS power cord (14) to the J2 Connector (15) on the PDISE M-40 (13).
11. Facilities support section personnel will connect a 40-A service cable (16) to the J1 Input Connector (17) of the PDISE M-40 (13).
12. Position fuel spill prevention and cleanup equipment (18) in close vicinity of FPFS for immediate availability to catch fuel overflow and clean up spills.



**OPERATING INSTRUCTIONS FOR FUEL DISTRIBUTION SUBSYSTEM**

Operate the fuel distribution subsystem by following the procedures in the component technical manuals listed below.

**OPERATING PROCEDURES FOR PDISE M40**

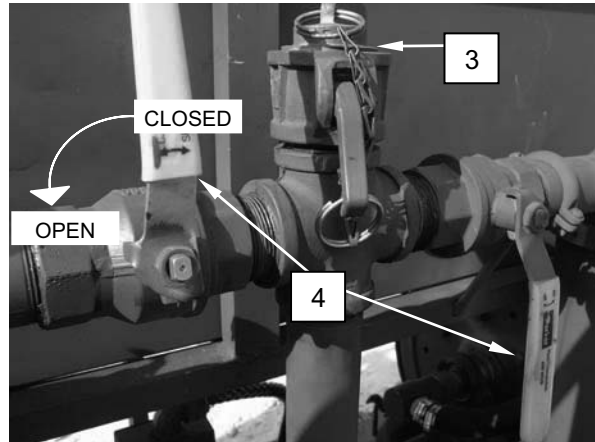
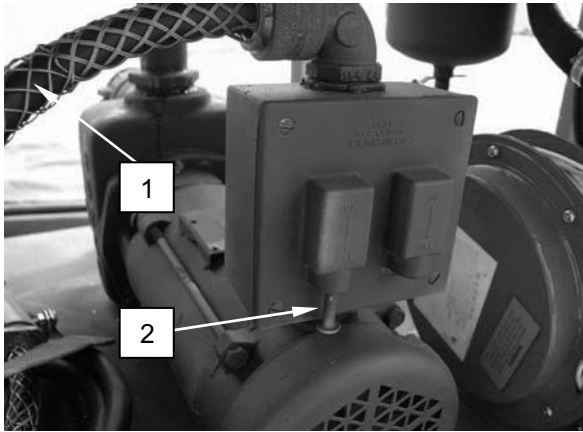
Operate the PDISE M40 in accordance with TM 9-6150-226-13.

**OPERATING PROCEDURES FOR TANK, FABRIC, COLLAPSIBLE, FUEL, 10,000 GALLON**

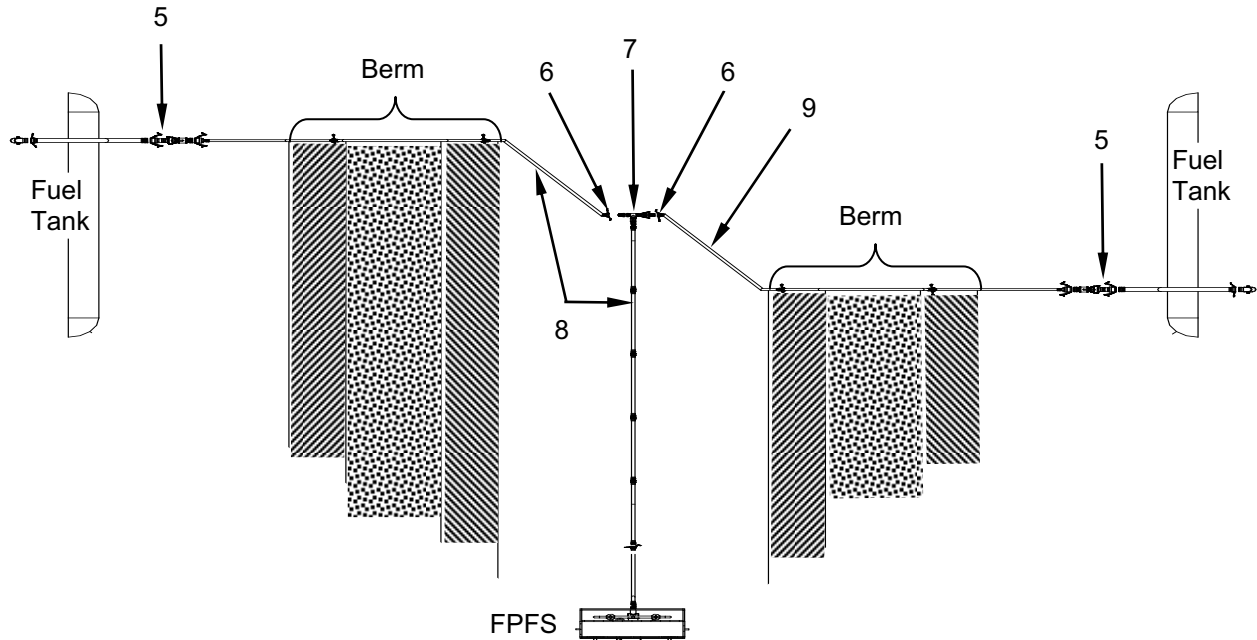
Operate the fuel tank in accordance with TM 10-5430-242-12&P.

**OPERATION OF FUEL DISTRIBUTION FACILITY**

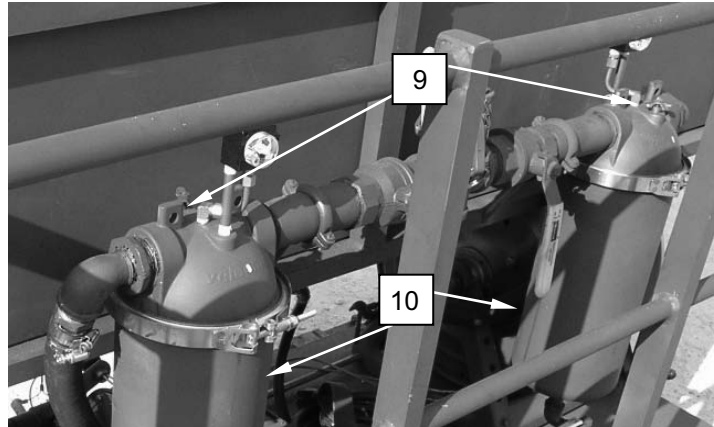
1. With the FPFS pump assembly power cord (1) connected to the PDISE M40, momentarily turn on the pump power switch (2) to verify proper rotation of pump as marked.
2. Prime the pump by opening the priming port (3) and filling the pump with fuel.
3. Place the supply valves (4) in the open (in line with pipe) position.



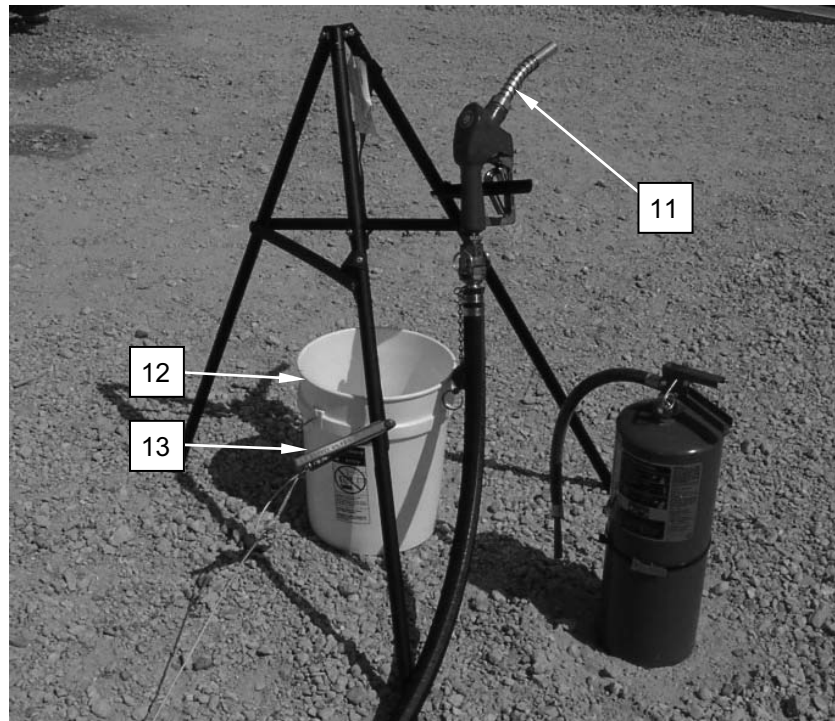
4. Open the 4-inch ball valve (5) on the discharge hose assembly of one or both tanks.
5. Open the appropriate 2-inch ball valves (6) on the fuel distribution Tee (7) to draw fuel from one or both tanks.
6. Check all fuel lines (8) for leaks. Tighten hose clamps and reconnect hoses as necessary.



7. Turn on the pump power switch (2).
8. Open the vent (9) located on top of each filter (10).
9. Allow the air to vent fully. Close vent (9) when fuel begins to flow from the vent. Clean up any spills immediately.



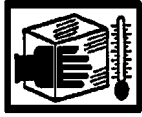
10. Place nozzle (11) into an approved fuel container (12) and let air escape from fuel line. When fuel begins to flow from the nozzle, release the handgrip to shut it off. Place nozzle on stand.
11. Before fueling a vehicle, clamp a ground cable clamp (13) firmly on a metal part on the vehicle.



12. Be alert to any fuel spills and leaks. Remove contaminated soil with shovel and bucket. Clean off any fuel spilled on equipment using absorbent material as necessary.



**ASSEMBLY AND PREPARATION FOR USE OF PRIME POWER FUEL FACILITY**



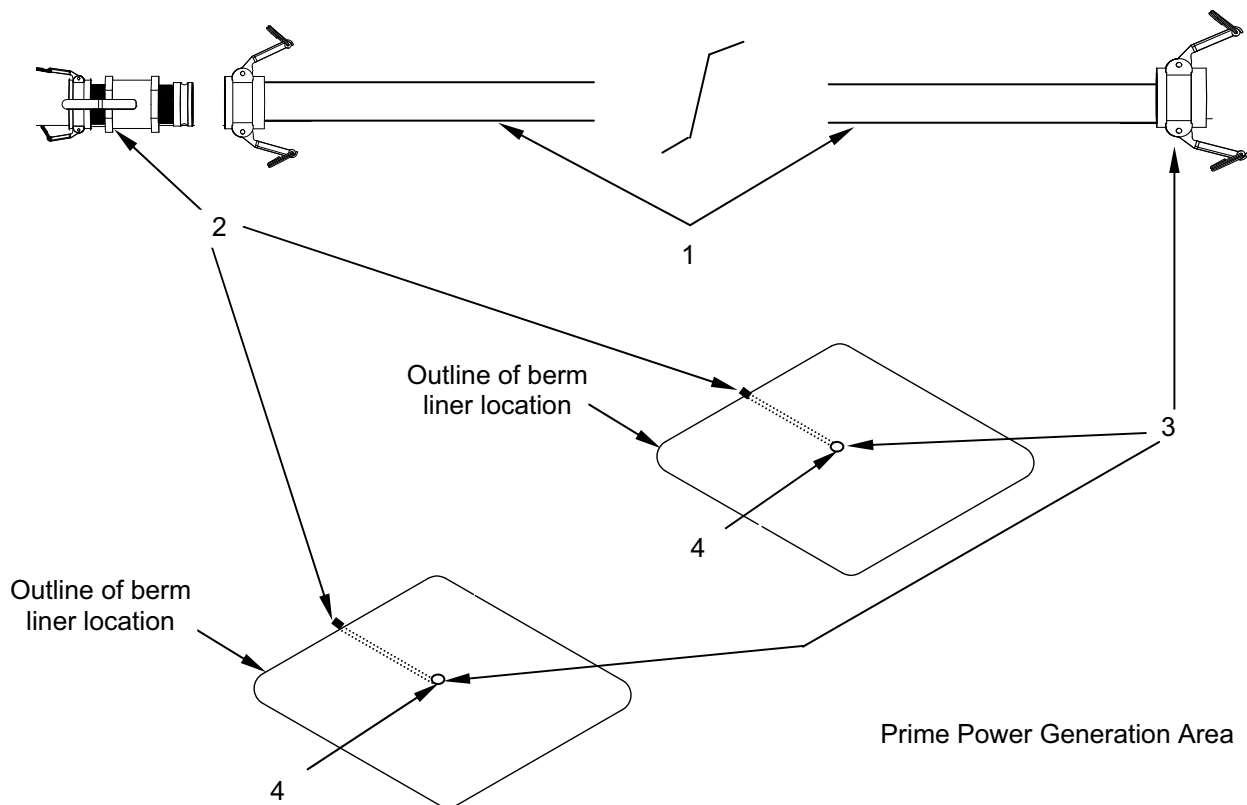
**WARNING**

Do not touch cold metal surfaces with bare hands. Always wear gloves when operating gate valves, fill nozzles or any other metal control device. Painful injuries may result from touching cold metal surfaces with bare hands.

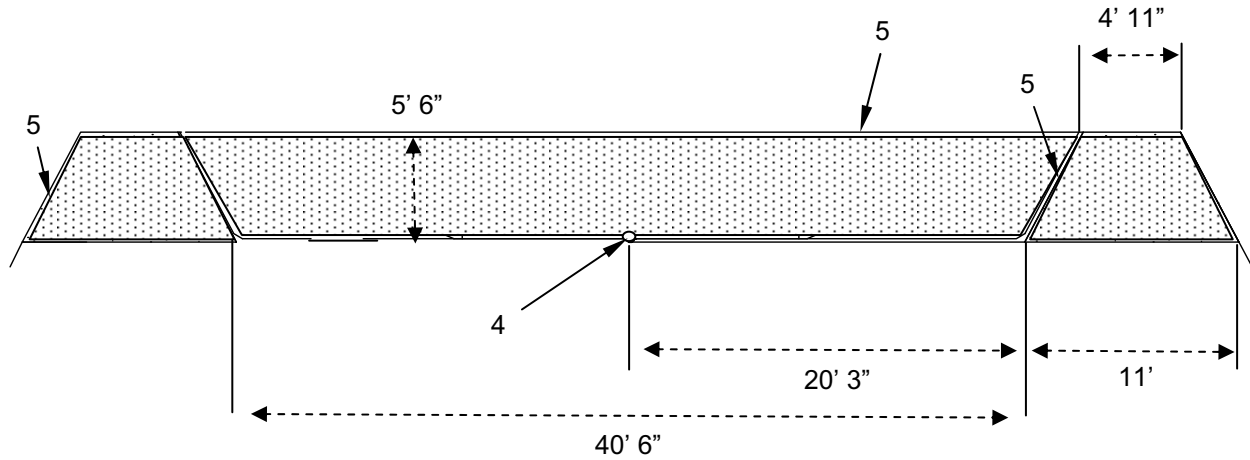
The prime power fuel facility consists of two 10,000-Gallon fuel storage tanks placed on berm liners and surrounded by berms located 14 feet apart. Each tank has a separate discharge line to which the prime power equipment can be connected. Assembly and general procedures for use of the tank assemblies (P/N RCF-10-K-F-OB) are described in TM 5-5430-242-12&P. This WP provides procedures unique to the Force Provider System. Equipment required to assemble and operate the prime power fuel facility is shipped in TRICON type 7C (Prime Power Fuel Kit).

**Assembly and Preparation for Use of 10,000-Gallon Tanks**

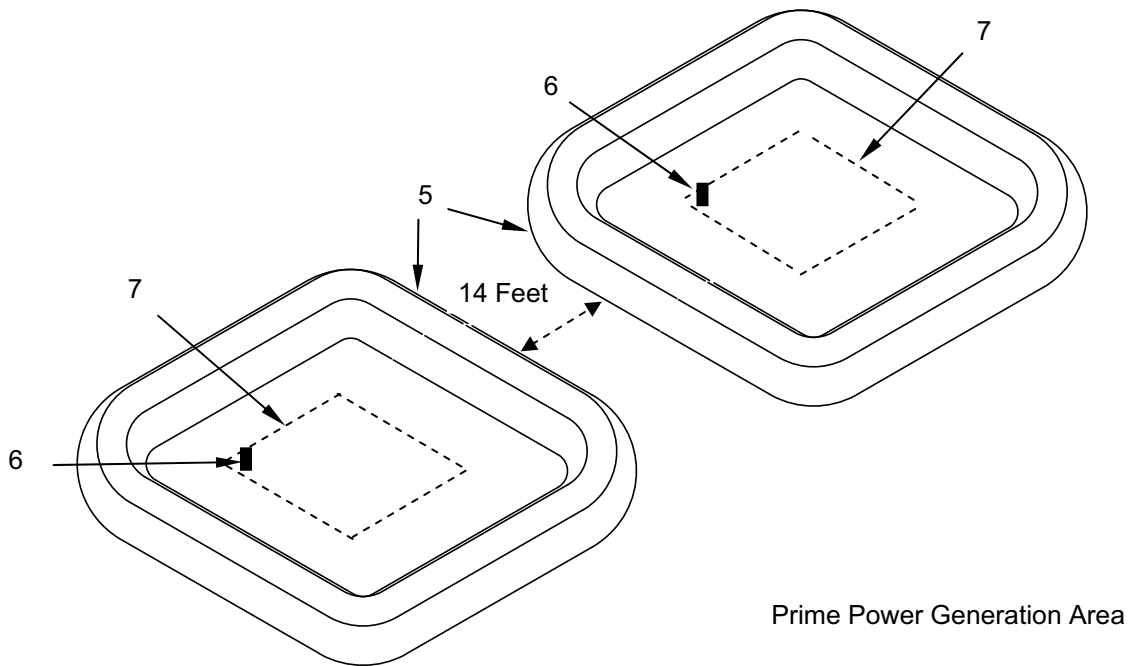
1. Assemble four, 2-inch x 10-foot berm liner drain hoses (1) for each tank and connect a 2-inch ball valve (2) to the male end of the assembled hoses. (Hoses and valves are part of the 10k-Gallon Tank Assembly)
2. Place the female end of the assembled hoses (3) at center of tank location (4), around which the berm is to be constructed.
3. Extend the ball valve-end (2) of the assembled hoses in the opposite direction of the designated prime power generation area to the edge of the berm as shown. Refer to WP 0022 00 for Fuel Storage and Distribution Site staking diagram.



- Construct berm (5) around the center of each tank location (4) as indicated by corner stakes E and F shown in the Prime Power Fuel Storage/Distribution Site staking diagram in WP 0022 00. Construct berm to the dimensions shown below.



- Ensure that the two berms (5) are fourteen feet apart and that there is vehicular access to the vicinity of the location of the fill port(s) (6) of the tanks (7)



**WARNING**

The berm liners are heavy. To avoid injuries, use lifting equipment to put them in place.

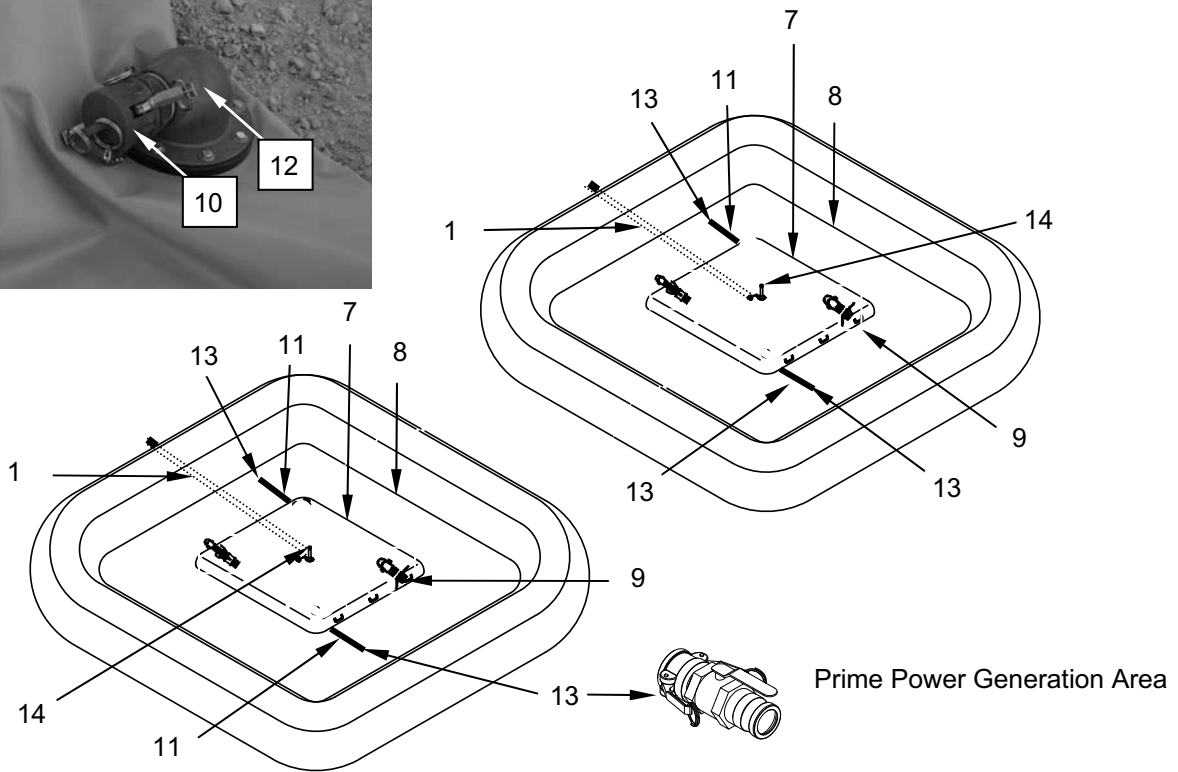
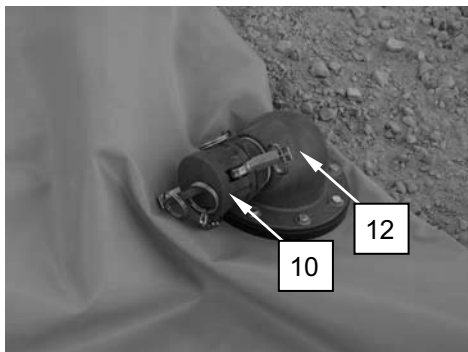
- Place berm liners (8) into position inside prepared berms and connect berm liner drain hose assembly as described in TM 10-5430-242-12&P.



**WARNING**

The 10,000-gallon fabric tanks are heavy. To avoid injuries, use lifting equipment to put them in place.

7. Place each 10,000-gallon collapsible fabric tank (7) in position over liner (8) and liner drain hose assembly (1). Ensure intended discharge port(s) (9) are positioned as shown.
8. Remove the dust cap (10) and install two, 2-inch x 8-foot hoses (11) onto the elbow fitting (12) of each of the two drains per tank. Install a 2-inch ball valve (13) onto the end of the hoses to complete the tank drain assembly. (Hoses and valves are part of the 10k-Gallon Tank Assembly.)
9. Install a tank vent assembly (14) into each tank as described in TM 5-5430-242-12.

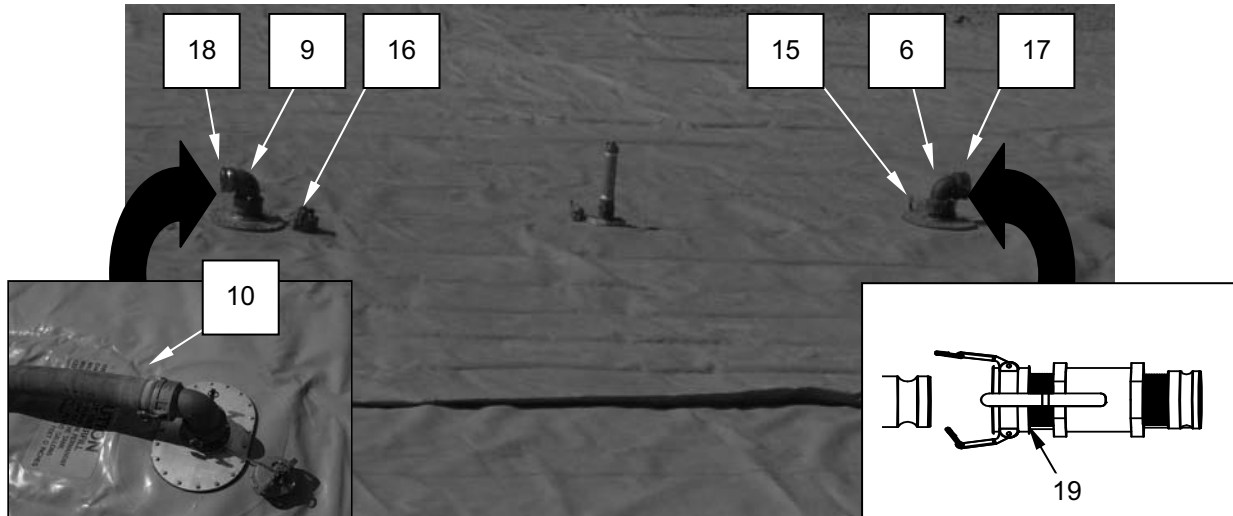


**WARNING**

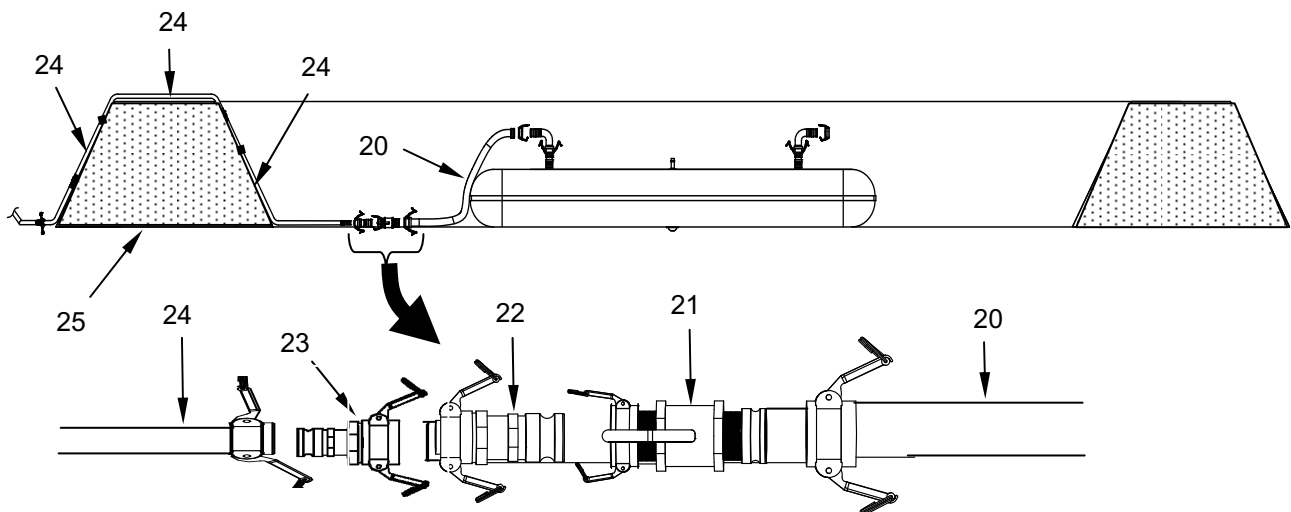
Do not touch cold metal surfaces with bare hands. Always wear gloves when operating valves, fill nozzles or any other metal control device. Painful injuries may result from touching cold metal surfaces with bare hands.

10. Remove dust cap (15) from 4-inch fill port (6).
11. Remove dust cap (16) from 4-inch discharge port (9).

12. Install 4-inch female x female elbow fitting (17) onto 4-inch male fill port (6).
13. Install 4-inch female x male elbow fitting (18) onto 4-inch male discharge port (9).
14. Install a 4-inch female x male ball valve (19) onto the fill port elbow fitting (17).
15. Install 4-inch x 10-foot hose (20) onto 4-inch male discharge port elbow fitting (18).

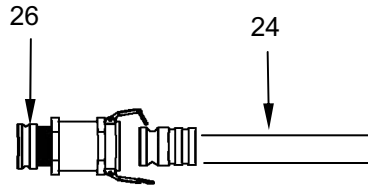


16. Install a 4-inch ball valve (21) onto the end of the 4-inch x 10-foot discharge hose (20).
17. Install a 4-inch x 2-inch reducer (22) onto the 4-inch ball valve (21).
18. Install a 2-inch x 1½-inch reducer (23) onto the end of the 4-inch x 2-inch reducer (22).
19. Install two, 1½-inch x 25-foot assembled hoses (24) onto the 2-inch x 1½-inch reducer (23).
20. Lay the two, 1½-inch x 25-foot assembled hoses (24) across the berm (25) as shown.

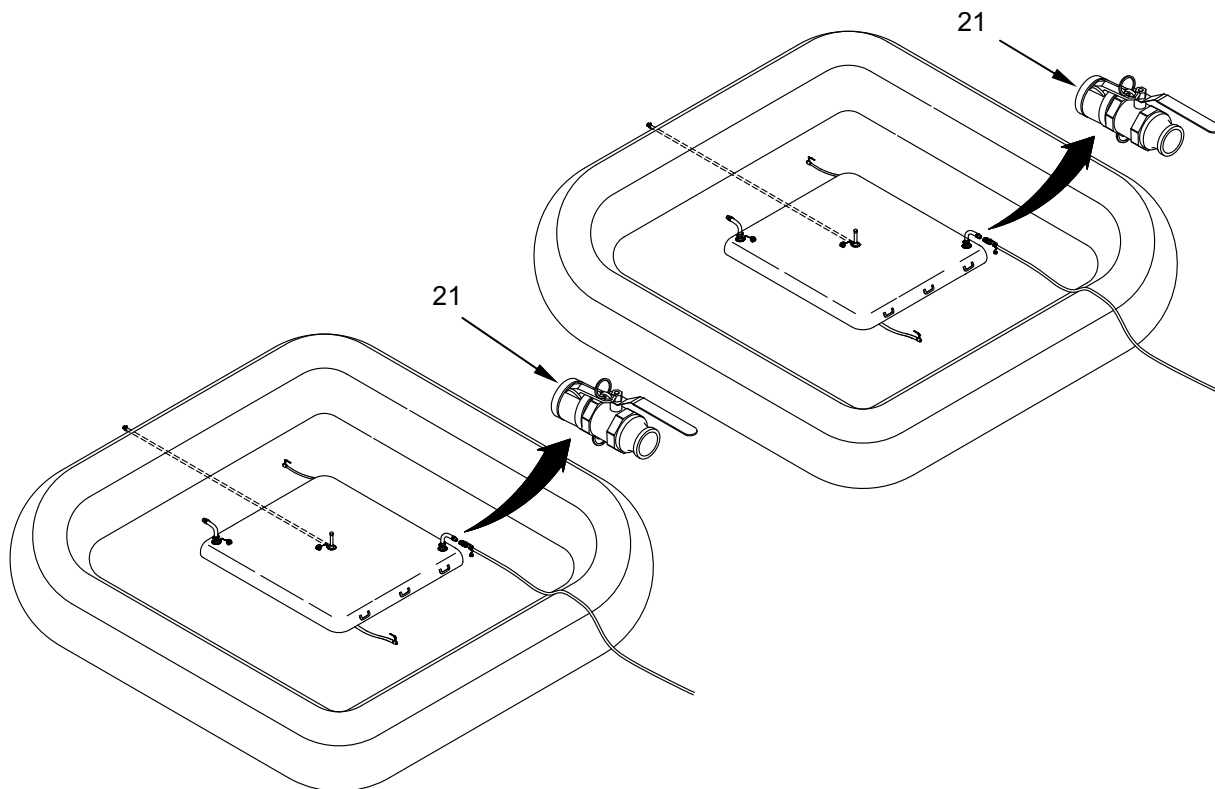


21. Install a 1½-inch coupling half (26) onto the end of the 1½-inch x 25-foot hose (25).

22. Connect prime power generation equipment to the 1½-inch coupling half (26).



23. To draw fuel from the tank(s), open the 4-inch ball valve (21) on the discharge hose assembly of the tank to be used.
24. Check the entire length of the fuel lines for leaks. Tighten hose clamps and reconnect hoses as necessary.
25. Be alert to any fuel spills and leaks. Remove contaminated soil with shovel and bucket. Clean off any fuel spilled on equipment using absorbent material as necessary.



**END OF WORK PACKAGE**



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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS - WASTEWATER COLLECTION SUBSYSTEM**

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**GENERAL**

This WP contains operating procedures for the wastewater collection subsystem. Procedures for the operation of this subsystem in the MSCW Configuration is presented in WP 0038 00.

Before assembly and preparation for use of the wastewater collection subsystem, the FP module site selection, planning, preparation, and staking of the wastewater collection areas must be completed. ISO 8A, and TRICON 8B, 8C, and 8D must be staged as described in WP 0022 00.

The water distribution subsystem requires connection to a power source.

**SCOPE**

Assembly and preparation for use of the wastewater collection subsystem consists of the following:

- Unpacking and inventory of wastewater collection equipment in ISO 8A, and TRICON 8B, 8C, and 8D as required.
- Layout and setup of wastewater mainline, 20,000-Gallon Collapsible Fabric Tanks (Type II), and wastewater tank kit (optional) for municipal sewer or field-expedient disposal.
- Optional connection to municipal water supply.
- Layout of four serviced facility branch lines.
- Connection to four Sewage Ejection Pumps (SEP).

**Wastewater Tank Kit**

When contractor or host nation support is available, a tanker will remove wastewater from the Type II, 20,000-Gallon Collapsible Fabric Tanks and transport it to a disposal site. In this case, the tank draining kit is not required. If support is not available, up to 1,000 feet of 2½-inch discharge hose can be assembled and used to discharge wastewater into a municipal sewer system or field-expedient disposal site. Pumping is accomplished with two 125-GPM, diesel-driven centrifugal pumps provided with the wastewater tank kit, or a 180-GPM diesel-driven centrifugal pump provided separately.



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**WARNING**

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Force Provider utilizes similar tanks for potable water (Type I) and wastewater (Type II) as well as other, similar looking, equipment. It is extremely important to keep this equipment separate during set-up, operation, and particularly during maintenance. Never store potable water in a Type II tank, or any tank, which has previously been used for wastewater. Using contaminated equipment for potable water can cause death or severe illness to individuals who ingest or contact contaminated water.

**UNPACKING AND INVENTORY**

Unpack and inventory wastewater collection subsystem components using Table 1 through 4 of this WP.

Wastewater collection equipment is packed in the following container types and quantities:

- One ISO Type 8A (Wastewater Main Line kit)
- One TRICON Type 8B (Wastewater Pump and Facility kit)
- One TRICON Type 8C (Wastewater Tank Kit)
- One TRICON Type 8D (Wastewater Accessories tank and hose kit)

Refer to WP 0038 00 for location and disposition of MSCW equipment to be used with the wastewater collection subsystem.

To unpack the equipment, proceed as follows:

1. Open each container and check its contents against Tables 1 through 4 for the container (the container Type is stenciled on the container door as illustrated in WP 0021 00).
2. Remove each item from the container and set it aside, but not in an area where equipment is to be positioned for operation.
3. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.
4. Assist latrine subsystem personnel with deprocessing of the WWET/T.

**Table 1. Inventory List for Wastewater Mainline Kit ISO Type 8A.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING, ISO, 20 FT, END OPENING, TYPE I	WP 0085 00, COEI, Item 3	1
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	7
PIPE, PLASTIC, 4 IN ID X 228 IN, GROOVED ENDS	WP 0092 00, COEI, Item 26	75
HOSE ASSEMBLY, 4 IN X 10 FT, SUCTION, GROOVED ENDS, WASTE WATER	WP 0092 00, COEI, Item 20	15
PIPE, PLASTIC, 4 IN ID X 120 IN, GROOVED ENDS	WP 0092 00, COEI, Item 25	8
HOSE ASSEMBLY, 4 IN X 10 FT, SUCTION, GROOVED ENDS, WASTE WATER *	WP 0092 00, COEI, Item 20	3
HOSE ASSEMBLY, 4 IN X 20 FT, SUCTION, GROOVED ENDS, WASTE WATER *	WP 0092 00, COEI, Item 21	3
PIPE, PLASTIC, 4 IN ID X 120 IN, GROOVED ENDS *	WP 0092 00, COEI, Item 25	5
PIPE, PLASTIC, 4 IN ID X 228 IN, GROOVED ENDS *	WP 0092 00, COEI, Item 26	27

\* PART OF ACCESSORY KIT, WASTE WATER COLLECTION SYSTEM, 3835-01-433-4195 PACKED IN CONTAINER 8B

**Table 2. Inventory List for Wastewater Pump and Facility Kit TRICON Type 8B.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTOR LINK	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	5
CONTAINER, REUSABLE, BULK HANDLING, HALF SIZE, GENERAL PURPOSE	WP 0085 00, COEI, Item 6	2
CONTAINER, REUSABLE, BULK EQUIPMENT, COMMERCIAL	WP 0085 00, COEI, Item 8	1
<b>WASTE WATER CONNECTION ASSEMBLY, 125 GPM PUMP</b>	WP 0092 00, COEI, Item 41	1
COUPLING, CLAMP, GROOVED END PIPE, 2-1/2 IN	WP 0092 00, COEI, Item 13	4



Table 2. Inventory List for Wastewater Pump and Facility Kit TRICON Type 8B – Continued.

Subcomponent	Where Listed/Illustrated	Qty
COUPLING, CLAMP, GROOVED END PIPE, 4 IN	WP 0092 00, COEI, Item 14	2
VALVE, CHECK, GROOVED ENDS, WASTE WATER, 2-1/2 IN	WP 0092 00, COEI, Item 40	1
HOSE ASSEMBLY, GROOVED ENDS, 2-1/2 IN X 10 FT, SUCTION, WASTE WATER	WP 0092 00, COEI, Item 18	2
HOSE ASSEMBLY, GROOVED ENDS, 4 IN X 10 FT, SUCTION, WASTE WATER	WP 0092 00, COEI, Item 20	1
REDUCER, 4 IN X 2-1/2 IN, GROOVE ENDS	WP 0092 00, COEI, Item 29	1
STRAINER, TEE TYPE, GROOVED ENDS, 4 IN	WP 0092 00, COEI, Item 41	1
TECHNICAL MANUAL, VICTAULIC INSTALLATION COMMERCIAL		1
<b>WASTE WATER CONNECTION ASSEMBLY, FACILITIES</b>	WP 0092 00, COEI, Item 42	7
VALVE ASSEMBLY, BALL, GROOVED PIPE, 2-1/2 IN	WP 0092 00, COEI, Item 37	7
COUPLING, CLAMP, GROOVED END PIPE, 2-1/2 IN	WP 0092 00, COEI, Item 13	28
HOSE ASSEMBLY, GROOVED ENDS, 2-1/2 IN X 10 FT, SUCTION, WASTE WATER	WP 0092 00, COEI, Item 18	7
HOSE ASSEMBLY, GROOVED ENDS, 2-1/2 IN X 20 FT, SUCTION, WASTE WATER	WP 0092 00, COEI, Item 19	7
REDUCER, LATERAL, GROOVED ENDS, 4 X 4 IN X 2-1/2 IN	WP 0092 00, COEI, Item 30	7
COUPLING, MALE NPT X GROOVED PIPE, 2-1/2 IN	WP 0092 00, COEI, Item 15	7
REDUCING BUSHING, 3 IN X 2-1/2 IN	WP 0092 00, COEI, Item 31	7
TECHNICAL MANUAL, VICTAULIC INSTALLATION COMMERCIAL		7
<b>PUMP ASSEMBLY, 125 GPM, WASTE WATER</b>	TM 10-4320-325-14	2
NIPPLE, PIPE, SS (TP316SML) 2 IN NOM PIPE, 0.218 WALL, 2 IN LONG	TM 10-4320-325-14	1
NIPPLE, PIPE, SS (TP316SML) 2 IN NOM PIPE, 0.218 WALL, 5 IN LONG	TM 10-4320-325-14	1
NIPPLE, PIPE, SS (TP316SML) 2 IN NOM PIPE, 0.218 WALL, 8 IN LONG	TM 10-4320-325-14	1
WRENCH, ADJUSTABLE, 10-1/2 IN LONG	TM 10-4320-325-14	1
COUPLING HALF, Q-DISC, CAM LOCK, MALE, IPT TYPE I, 2 IN, AL	TM 10-4320-325-14	1
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, IPT, TYPE V, 2 IN, AL	TM 10-4320-325-14	2
COUPLING HALF, Q-DISC, CAM LOCK, PLUG TYPE X, 2 IN AL	TM 10-4320-325-14	1
TECHNICAL MANUAL, 125 GPM PUMP, OPERATOR'S, UNIT, DIRECT AND GENERAL SUPPORT, TM 10-4320-325-14	WP 0092 00, BII, Item 2	2
TECHNICAL MANUAL, 125 GPM PUMP, MAINTENANCE RPSTL, TM 10-4320-325-24P	WP 0092 00, BII, Item 1	2
<b>ACCESSORY KIT, WASTE WATER COLLECTION SYSTEM</b>	WP 0092 00, COEI, Item 1	1
SPOUT, FUEL CAN, FLEXIBLE	WP 0092 00, COEI, Item 33	1
LUBRICANT, GASKET, POTABLE WATER SYSTEM, QUART	WP 0102 00, COEI, Item 64	1
VALVE ASSEMBLY, BALL, GROOVED PIPE, 2-1/2 IN	WP 0092 00, COEI, Item 37	1
HOSE ASSEMBLY, GROOVED ENDS, 2-1/2 IN X 10 FT, SUCTION, WASTE WATER	WP 0092 00, COEI, Item 18	3
HOSE ASSEMBLY, GROOVED ENDS, 2-1/2 IN X 20 FT, SUCTION, WASTE WATER	WP 0092 00, COEI, Item 19	3
COUPLING, CLAMP, GROOVED END PIPE, 2-1/2 IN	WP 0092 00, COEI, Item 13	15
COUPLING, CLAMP, GROOVED END PIPE, 4 IN	WP 0092 00, COEI, Item 14	50
VALVE, CHECK, GROOVED ENDS, WASTE WATER, 4 IN	WP 0092 00, COEI, Item 39	3
HOSE ASSEMBLY, GROOVED ENDS, 4 IN X 10 FT, SUCTION, WASTE WATER (PACKED IN TRICON 8A)	WP 0092 00, COEI, Item 20	0

**Table 2. Inventory List for Wastewater Pump and Facility Kit TRICON Type 8B – Continued.**

Subcomponent	Where Listed/Illustrated	Qty
HOSE ASSEMBLY, GROOVED ENDS, 4 IN X 20 FT, SUCTION, WASTE WATER (PACKED IN TRICON 8A)	WP 0092 00, COEI, Item 21	0
VALVE ASSEMBLY, GATE, GROOVED PIPE, 4 IN, W-WATER	WP 0092 00, COEI, Item 38	2
PIPE, PLASTIC, 4 IN ID X 120 IN, GROOVED ENDS (PACKED IN TRICON 8A)	WP 0092 00, COEI, Item 25	0
PIPE, PLASTIC, 4 IN ID X 228 IN, GROOVED ENDS (PACKED IN TRICON 8A)	WP 0092 00, COEI, Item 26	0
BOOM, ABSORBENT, 3 IN DIA. X 48 IN LONG	WP 0092 00, COEI, Item 4	6
CAN, FUEL, MILITARY, PLASTIC, 5 GALLON, GREEN	WP 0092 00, COEI, Item 5	2
GASKET, COUPLING, CLAMP, PIPE, 2-1/2 IN	WP 0092 00, COEI, Item 16	15
GASKET, COUPLING, CLAMP, PIPE, 4 IN	WP 0092 00, COEI, Item 17	50
PIPE FITTING, CAP, 4 IN, AL, GROOVED, BLACK	WP 0092 00, COEI, Item 22	6
TAPE, ANTISEIZE, SIZE 2, 1/2 IN WIDE X 260 IN LONG	WP 0092 00, COEI, Item 24	2
TECHNICAL MANUAL, VICTAULIC INSTALLATION COMMERCIAL		1
<b>REMAINING WASTE WATER PUMP &amp; FACILITY KIT ITEMS</b>		
PUMP, TRASH, CENTRIFUGAL, SELF-PRIMING	WP 0092 00, COEI, Item 43	2
PIPE FITTING, CAP, 4 IN, AL, GROOVED, BLACK	WP 0092 00, COEI, Item 22	1
PIPE FITTING, ELBOW, 90 DEG, 4 IN, AL, GROOVED BLACK	WP 0092 00, COEI, Item 23	2
COUPLING, CLAMP, GROOVED END PIPE, 4 IN	WP 0092 00, COEI, Item 14	140
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM TM 10-5419-206-13	WP 0092 00, BII, Item 6	1
TECHNICAL MANUAL, RPSTL FORCE PROVIDER SYSTEM TM 10-5419-206-23P	WP 0092 00, BII, Item 5	1

**Table 3. Inventory List for Wastewater Tank Kit TRICON Type 8C.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTOR LINK	WP 0085 00, COEI, Item 2	3
CONTAINER, REUSABLE, BULK EQUIPMENT, MEDIUM	WP 0085 00, COEI, Item 10	2
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
<b>CONNECTION ASSEMBLY, 20,000-GAL W-WATER TANK</b>	WP 0092 00, COEI, Item	1
COUPLING, CLAMP, GROOVED END PIPE, 4 IN	WP 0092 00, COEI, Item 14	13
VALVE, CHECK, GROOVED ENDS, WASTE WATER, 4 IN	WP 0092 00, COEI, Item 39	1
HOSE ASSEMBLY, GROOVED ENDS, 4 IN X 20 FT, WASTE WATER, SUCTION	WP 0092 00, COEI, Item 21	4
VALVE ASSEMBLY, GATE, GROOVED PIPE, 4 IN, WASTE WATER	WP 0092 00, COEI, Item 38	4
ADAPTER ASSEMBLY, FEMALE CAM-LOCK X GROOVED PIPE, 4 INCH, WASTE WATER	WP 0092 00, COEI, Item 2	2
PIPE FITTING, ELBOW, 90 DEG, 4 IN, AL, GROOVED BLACK	WP 0092 00, COEI, Item 23	2
TEE, GROOVED ENDS, 4 INCH	WP 0092 00, COEI, Item 36	2
COUPLING HALF, QDISC, CAM-LOCK, NIPPLE ADAPTER, MALE X EXTERNAL GROOVED PIPE	WP 0092 00, COEI, Item 12	2
<b>TANK, FABRIC COLLAPSIBLE, 20,000 GALLON, WASTE WATER WITH GROUND CLOTH AND ACCESSORIES</b>	WP 0092 00, COEI, Item 35 or TM 5-5430-219-13	3
INPUT 90 DEGREE ELBOW, QDISC, CAM-LOCK, 4 IN FEMALE X 4 IN FEMALE	TM 5-5430-219-13	3
OUTPUT 90 DEGREE ELBOW, QDISC, CAM-LOCK, 4 IN FEMALE X 4 IN MALE	TM 5-5430-219-13	3

Table 3. Inventory List for Wastewater Tank Kit TRICON Type 8C - Continued.

Subcomponent	Where Listed/Illustrated	Qty
TECHNICAL MANUAL, 20,000 GALLON FABRIC TANK COMMERCIAL (ALTERNATIVE TM 5-5430-219-13)	WP 0092, BII, Item 4	6
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN X 20 FT, F X M, DRAIN LINE	TM 5-5430-219-13	3
GROUND CLOTH, 20,000 GALLON WASTE WATER TANK	TM 5-5430-219-13	3
VENT TUBE ASSEMBLY, 2 IN	TM 5-5430-219-13	3
OUTPUT 90 DEGREE ELBOW, QDISC, CAM-LOCK, 1-1/2 IN FEMALE X 1-1/2 IN MALE QDISC	TM 5-5430-219-13	3
VALVE ASSEMBLY, GATE, QDISC, CAM-LOCK, 1-1/2 IN, F-M	TM 5-5430-219-13	3
OUTPUT ASSEMBLY, 1-1/2 IN	TM 5-5430-219-13	3
INPUT/OUTPUT FITTING, 4 IN	TM 5-5430-219-13	6
<b>EMERGENCY REPAIR KIT</b>	TM 5-5430-219-13	3
TANK FABRIC, 1SQ YD	TM 5-5430-219-13	3
POUCH, REPAIR KIT	TM 5-5430-219-13	3
GASKET, 4 IN	TM 5-5430-219-13	12
GASKET, 1.5 IN	TM 5-5430-219-13	12
TAPE, ANTISEIZE, 1/2 IN WIDE	TM 5-5430-219-13	6
CLAMP, REPAIR, SEALING, 3 IN	TM 5-5430-219-13	6
CLAMP, REPAIR, SEALING, 5 IN	TM 5-5430-219-13	6
CLAMP, REPAIR, SEALING, 7 1/2 IN	TM 5-5430-219-13	6
PLUG, WOOD, TAPERED, THREADED, 5 IN	TM 5-5430-219-13	6
PLUG, WOOD, TAPERED, THREADED, 3 IN	TM 5-5430-219-13	6
INSTRUCTIONS	TM 5-5430-219-13	6
PLIERS, LINESMAN'S, 8 IN	TM 5-5430-219-13	3
PLUG, WOOD, TAPERED, 1 1/2 IN	TM 5-5430-219-13	9
PLUG, WOOD, TAPERED, 2 IN	TM 5-5430-219-13	9
PLUG, WOOD, TAPERED, 5/8 IN	TM 5-5430-219-13	15
PATCH, MECHANICAL, 3/4 IN	TM 5-5430-219-13	18
PATCH, MECHANICAL, 2 IN	TM 5-5430-219-13	6
CUTTING KNIFE WITH SHEATH	TM 5-5430-219-13	3

Table 4. Inventory List for Wastewater Accessory Kit TRICON Type 8D.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTOR LINK	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	5
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	6
<b>SEWAGE EJECTION PUMP, WASTE WATER EVACUATION</b>	WP 0092 00, COEI, Item 28	1
COUPLING, CAM/GROOVED HOSE, FEMALE ADAPTER, 2 IN NPT MALE	TM 10-4630-206-12&P	3
COUPLING, CAM/GROOVED HOSE, FEMALE ADAPTER, 3 IN NPT MALE	TM 10-4630-206-12&P	2
DUST CAP, 2 IN	TM 10-4630-206-12&P	3
DUST CAP, 3 IN	TM 10-4630-206-12&P	2
TECHNICAL MANUAL, SEWAGE EJECTION PUMP TM 10-4630-206-12&P	WP 0092 00, BII, Item 3	1
<b>REMAINING WASTE WATER ACCESSORIES ITEMS</b>		
BAG, SAND, ACRYLIC, GREEN	WP 0092 00, COEI, Item 3	22

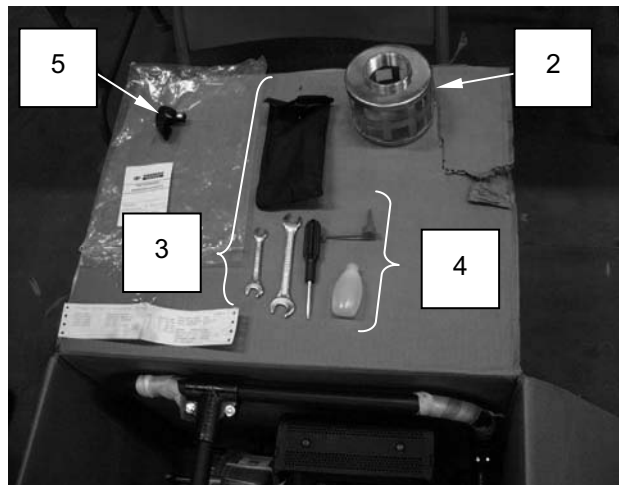
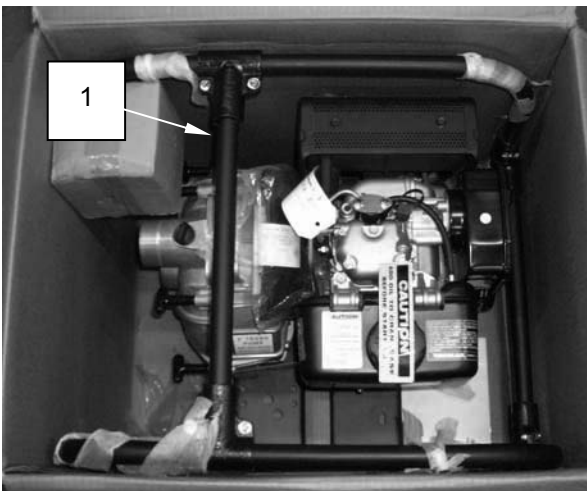


**WARNING**

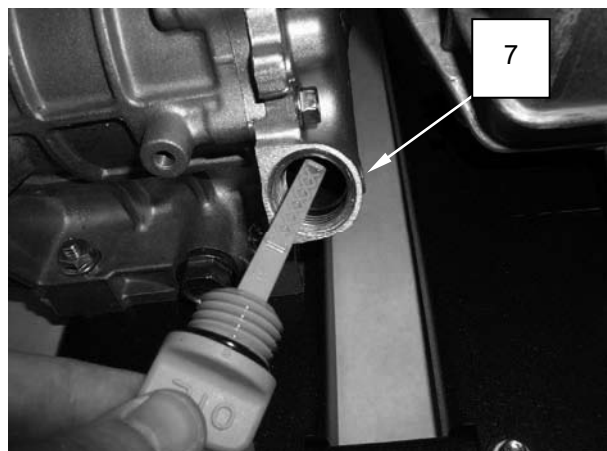
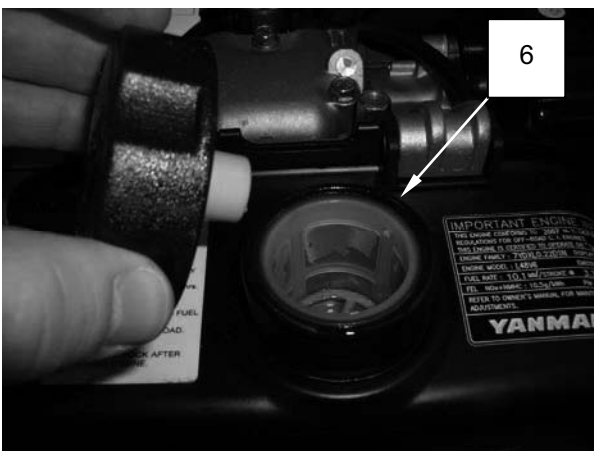
Although much of the waste water equipment is not interchangeable with the potable water subsystem, some components are used with both subsystems, including QD couplings, dust caps, dust plugs, coupling half, hose gaskets and 20,000 Gallon tank parts. It is extremely important to keep waste water subsystem components separate from potable water subsystem during all phases of their assembly, operation, maintenance, disassembly, and packing. Inadvertent use of contaminated waste water components with the potable water distribution subsystem can cause death or severe illness to individuals who ingest or come in contact with contaminated water.

**UNPACKING AND PREPARATION FOR INSTALLATION OF TRASH PUMP**

Unpack the trash pump (shipped in TRICON 8B) (1) and retrieve the separate items shipped in the box consisting of the suction strainer (not used with FP) (2), hand tools with carrier (3), squeeze bottle with applicator (4), exhaust deflector (5), and commercial operating manual (not shown). Place items, except the strainer (2) into the plastic bag provided and keep with pump. Place the strainer (2) in storage.



Fill the fuel tank (6) with diesel fuel to the red ring (approximately 2 Quarts). Fill the engine oil pan through either one of the engine oil filler ports. Remove the dip stick and fill the engine with approximately 0.85 Quart of either SAE 10W-30, or 15W-40 type oil. Replace the dip stick. Set pump aside until needed.



## ASSEMBLY OF GROOVED END PIPE WITH SNAP-JOINT COUPLINGS

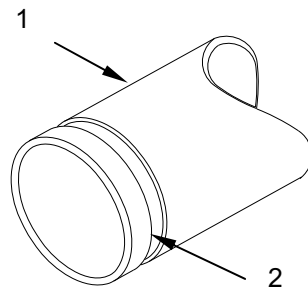
This section provides procedures necessary to assemble grooved end pipes with snap-joint couplings. These couplings are used to make the majority of pipe connections needed to form the wastewater collection system.

### NOTE

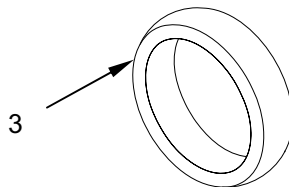
Connecting wastewater pipes with Victaulic snap-joint couplings requires correct alignment of the pipes. This is best accomplished as a two-person procedure.

### Connecting Pipes Using Snap-Joint Couplings

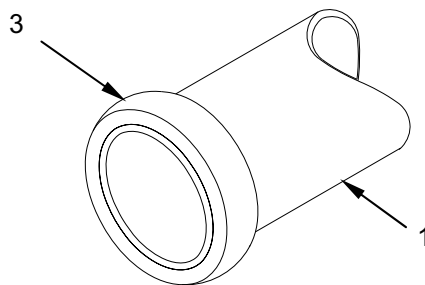
1. Check pipe ends. Exterior of pipe (1) must be free from indentations, projections or roll marks from end to groove (2) to ensure a leak-tight seal for gasket.



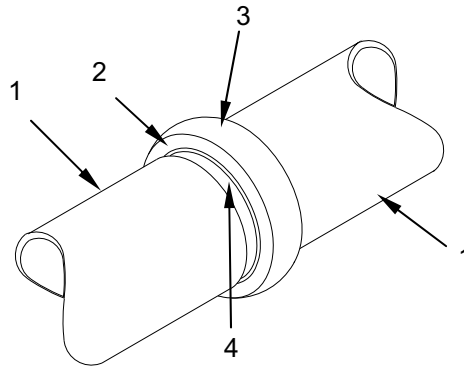
2. Check and lubricate gasket. Check gasket (3) to be certain it is of the correct size and type. Apply a thin coat of lubricant to gasket lips and outside of gasket (3).



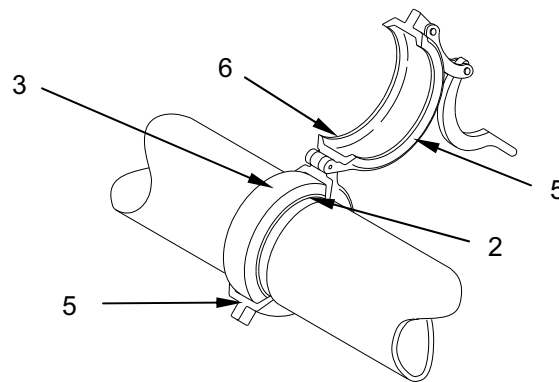
3. Install gasket. Position gasket (3) over pipe end (1), ensuring gasket lip (3) does not overhang pipe end (1).



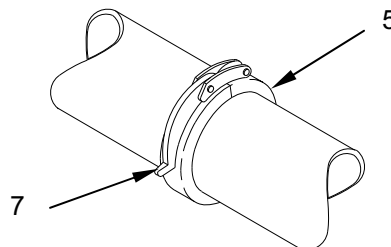
4. Join pipe ends. Align two pipe ends (1) and bring them together. Slide gasket (3) into position centered between two grooves (2) and (4). No portion of the gasket (3) should extend over groove (4) on either pipe (1).



5. Apply housing. Position one side of hinged housing (5) over gasket (3). Ensure keys (6) drop securely into grooves (2). Swing other side of housing (5) into position in grooves (2). Squeeze tight to center gasket (3) and set housing.



6. Close lever handle. Lift locking handle (7) and position nose of handle in cradle tab of opposite side of housing (5). Push locking handle (7) down firmly until entire handle contacts coupling housing (5) to assure locked joint. Some force may be necessary to properly lock the handle.



## ASSEMBLY AND PREPARATION FOR USE OF WASTEWATER COLLECTION TANKS

All equipment required for wastewater collection tanks is found in Wastewater Pump and Facility Kit type 8B and Wastewater Mainline Kit type 8A TRICON (see Tables 1 and 2 for inventory listings and WP 0092 00 for illustration of components).



### WARNING

Wear gloves and use caution when closing Victaulic snap-joints to avoid injuries due to pinching.

All 4-inch grooved end connections are to be made with 4-inch snap-joint couplings. Understanding of and compliance with procedures described under Assembly of Grooved End Pipe with Snap Joint Couplings are required for this procedure.

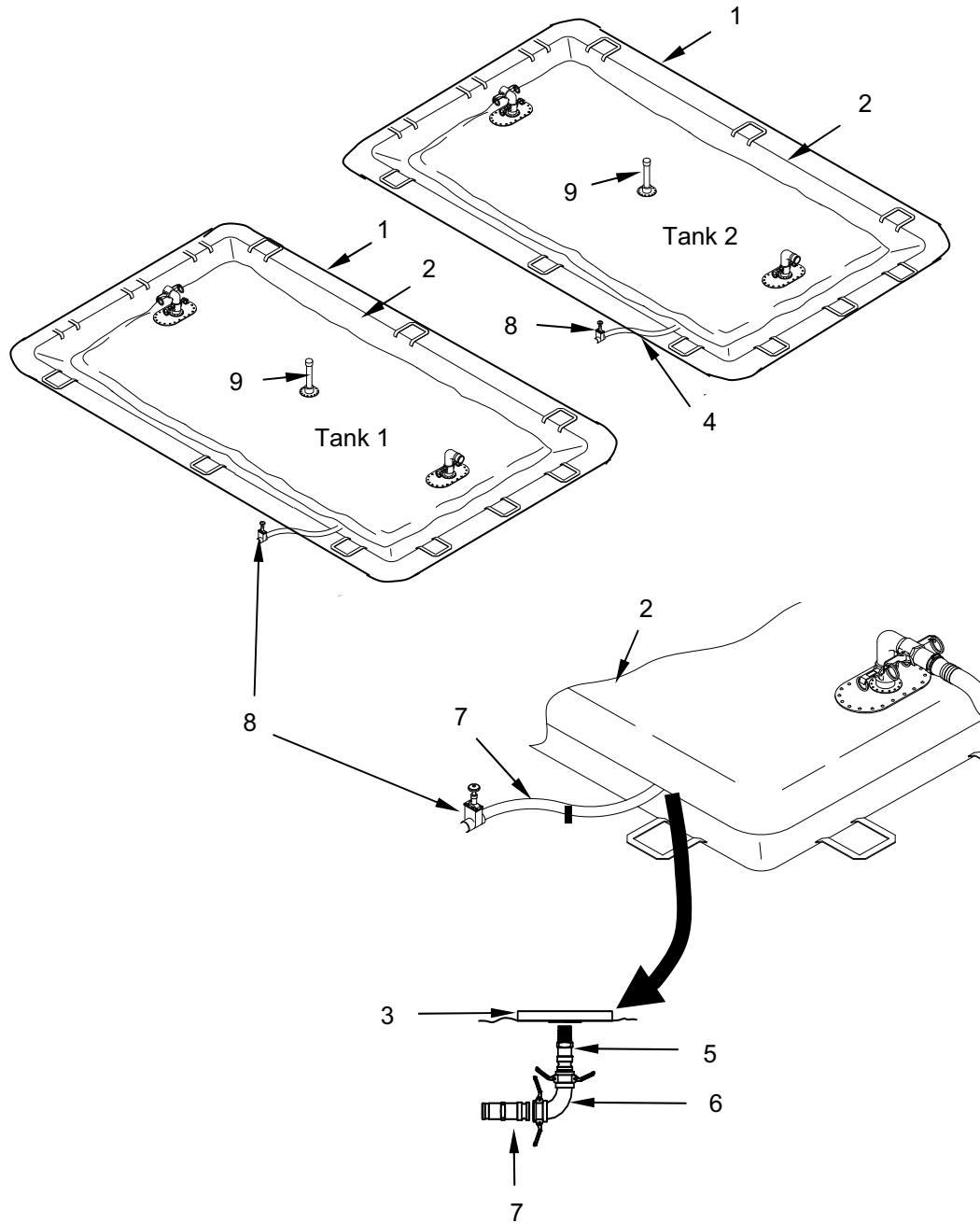
### Layout and Assembly



### WARNING

The shipping crate containing the 20,000-Gallon tanks are heavy and must be moved with mechanical equipment or a fork lift. Lift the fabric tanks from the crate with a fork lift. To prevent serious back injury from heavy lift, ensure at least four persons are available to spread the ground cloth and tank into final position by hand.

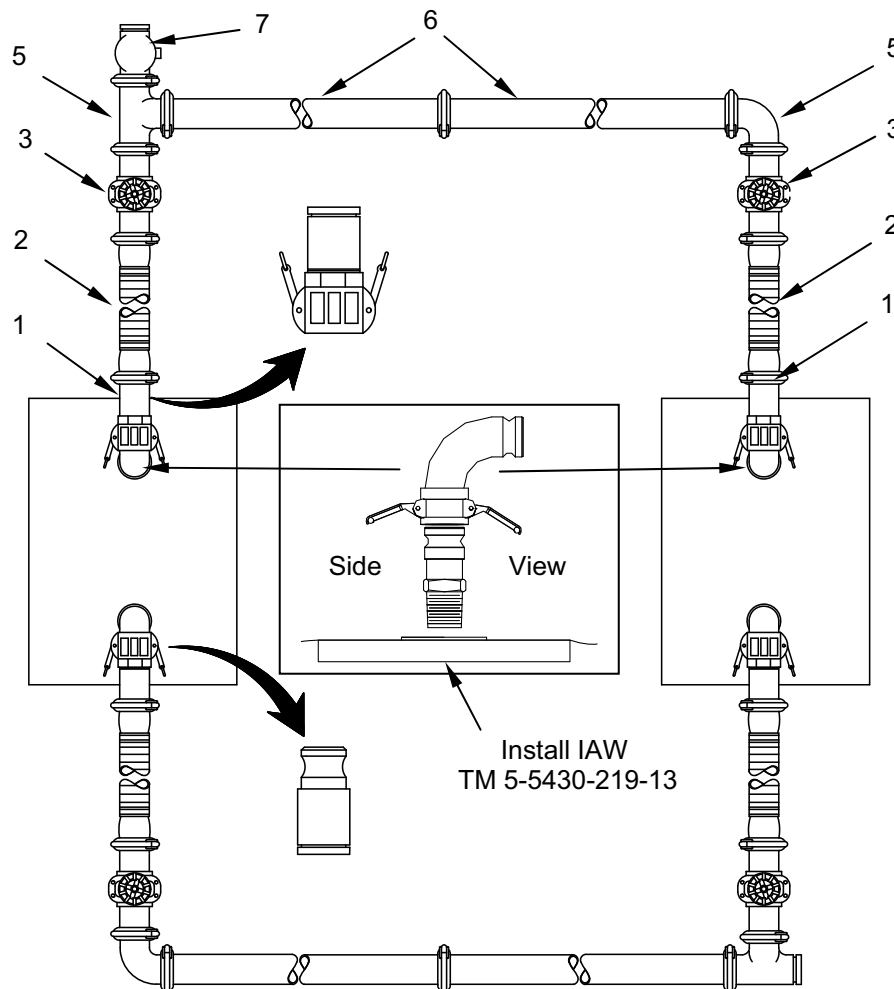
1. Unpack the crates containing the tanks and accompanying components shipped in TRICON type 8C.
2. Position ground cloth (1) and tank (2) as shown below, ensuring correct orientation of the tank input and discharge side. (The input side always faces waste water mainline).
3. Fold back tank to expose the tank drain plate (3). Fold back the ground cloth and dig a trench from the position of the drain plate to the side of the tank to accommodate the tank drain line (4).
4. Place the ground cloth (1) back into its original position over the trench.
5. Remove the shipping plug from the tank drain plate and install the drain line assembly onto the drain plate, consisting of the drain fitting (5), 90° elbow (6) and 1½-inch x 20-foot QDISC drain hose (7).
6. Place the tank fabric back into its original position ensuring the drain line is placed into the trench. Connect a 1½-inch gate valve (8) onto the end of the drain hose (7) extending from the tank bottom.
7. Install vent assembly (9) as described in TM 5-5430-219-13.





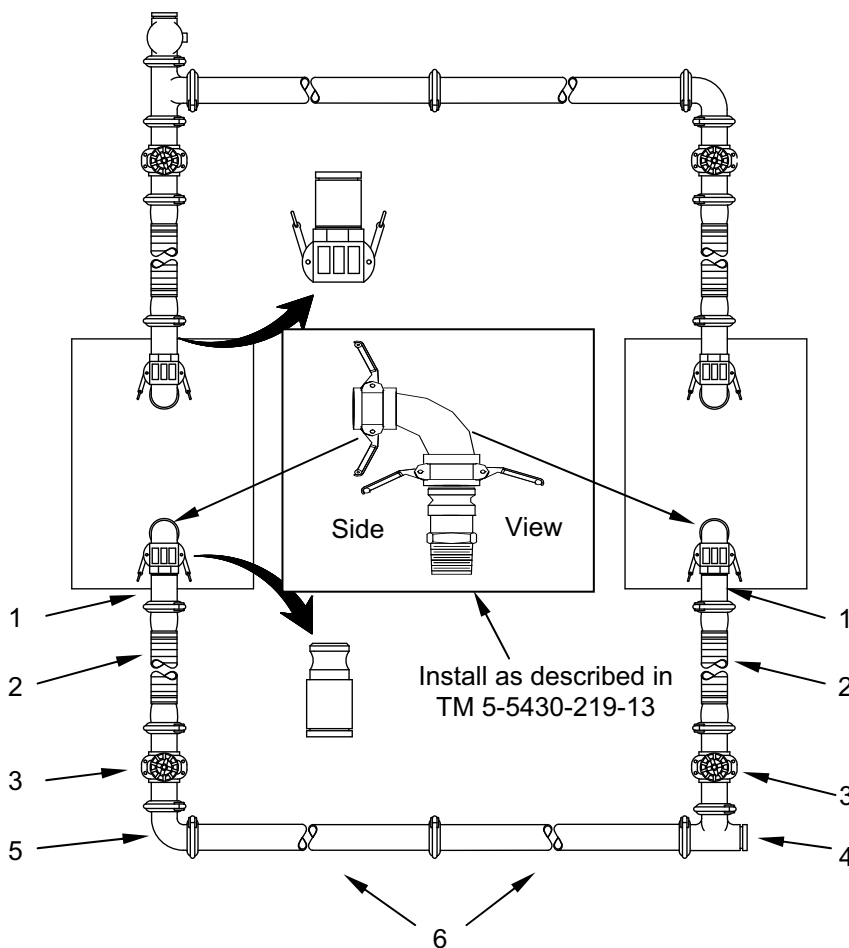
### Connect Input Side of Tanks

1. Install the 4-inch M QDISC X 4-inch NPT filler/discharge fitting and the 90° 4-inch M X F QDISC elbow fitting, with cap, onto the input filler/discharge plate of each 20,000 Gallon Collapsible Fabric Tank as described in TM 5-5430-219-13.
2. Connect 4-inch grooved end-to-male QDISC adaptors (1) to 4-inch female camlock coupling halves on filler elbow attached to each 20,000 Gallon Collapsible Fabric Tank input plate.
3. To each of adapter (1), connect one 4-inch x 20-foot grooved end suction hose (2) and 4-inch grooved end gate valves (3).
4. To gate valves (3), connect either a 4-inch grooved end T (4) or a 90 degree elbow (5). The T (4) should be flat on the ground and oriented towards Tank 1, elbow (5), and proposed wastewater mainline. The elbow (5) should be flat on ground and pointing toward T (4).
5. Join T (4) and elbow (5) with two sections of 4-inch x 20-foot grooved end PVC pipe (6).
6. Connect 4-inch grooved end check valve (7) to T (6).



**Connect Discharge Side of Tanks**

1. Install the 4-inch M QDISC X 4-inch NPT filler/discharge fitting and the 90° 4-inch F X F QDISC elbow fitting, with plug, onto the input filler/discharge plate of each 20,000 Gallon Collapsible Fabric Tank as described in TM 5-5430-219-13.
2. Connect a 4-inch grooved end x F QDISC adaptor (1) to 4-inch male camlock coupling halves on discharge elbow of each 20,000 Gallon Collapsible Fabric Tank discharge plate.
3. To each adaptor (1), connect one 4-inch x 20-foot grooved end suction hose (2) and 4-inch grooved pipe gate valves (3).
4. To gate valve (3), connect either a 4-inch grooved end T (4) or a 90 degree elbow (5). The T (4) should be flat on the ground and oriented towards Tank 2, elbow (5), and wastewater draining kit, if used. The elbow (5) should be flat on ground and pointing toward T (4).
5. Join T (4) and elbow (5) with two sections of 4-inch x 20-foot grooved end PVC pipe (6).
6. Depending on the method of draining, install additional 4-inch x 20-foot hoses onto the T (4) and a 4-inch grooved pipe gate valve to control the flow at the end of any additional hoses added. (Parts are contained in the Accessory Kit Waste Water Collection.)



**ASSEMBLY AND PREPARATION FOR USE OF WASTEWATER MAINLINE**

The following procedures describe general layout and assembly of the wastewater mainline. Each particular site plan may require slight variation in layout.

All equipment required for wastewater mainline is found in Wastewater Mainline Kit type 8A TRICON. Refer to Table 1 for inventory listing and WP 0092 00 for illustration of components.

Understanding of and compliance with procedures described under Assembly of Grooved End Pipe with Snap Joint Couplings are required for this procedure.

**Layout and Assembly**

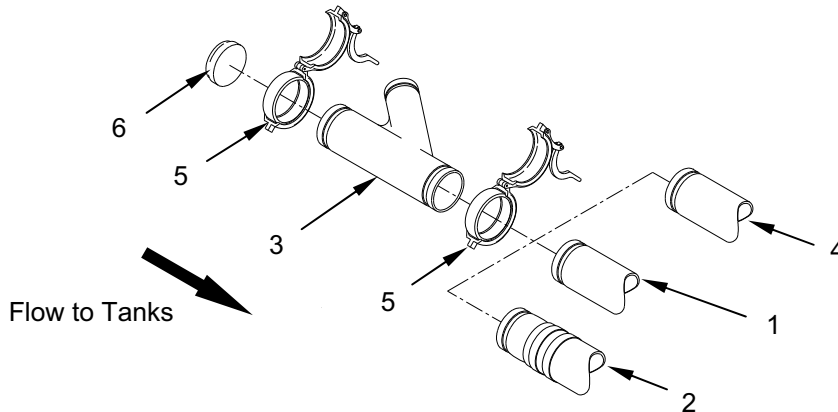
1. Starting from tank end of wastewater mainline, layout but do not connect required sections of 4-inch x 20-foot grooved end PVC pipe (1). Keep path as straight as possible.
2. Identify sections of pipe (1) that will need to be substituted by flexible 4-inch grooved end suction hose (2) to accommodate obstacles or changes in direction. Modify layout as required to achieve a direct, downhill sloping mainline.
3. At locations indicated for branch leg connection points, position a 4-inch x 4-inch x 2½-inch reducing lateral (3) at nearest joint (reducing lateral need not be exactly at staked location). Two 4-inch x 10-foot grooved end PVC pipes (4) may be substituted to position a joint closer to staking location than possible with one 4-inch x 20-foot grooved end PVC pipe (1).
4. Position 4-inch snap-joint couplings (5) at every joint.
5. Position a 4-inch cap pipe fitting (6) at end of line away from tanks.

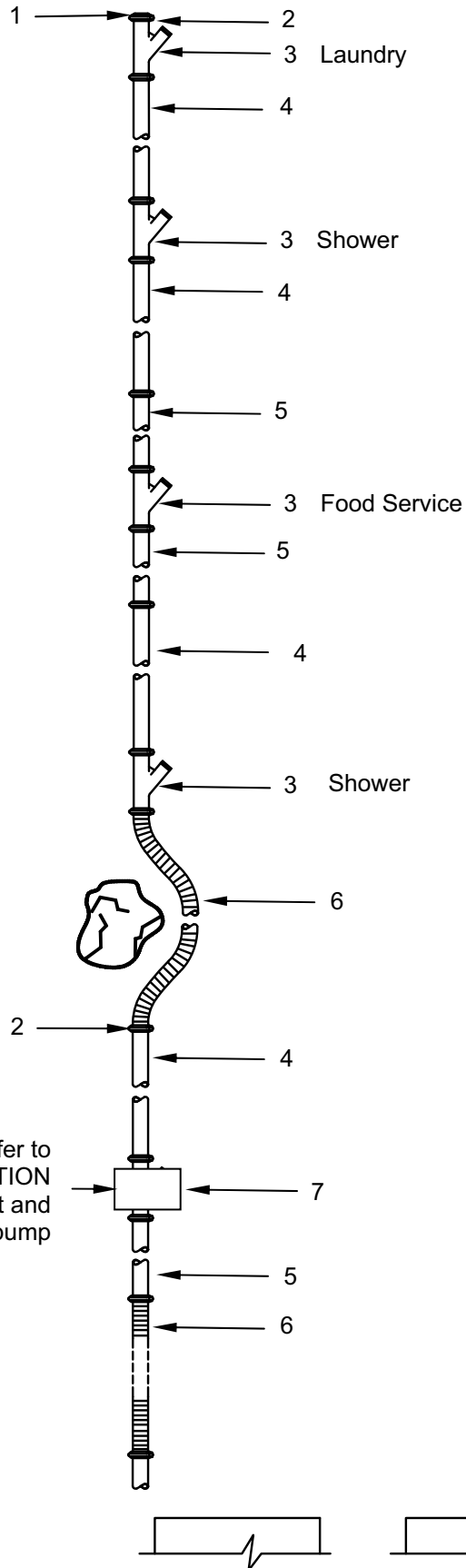
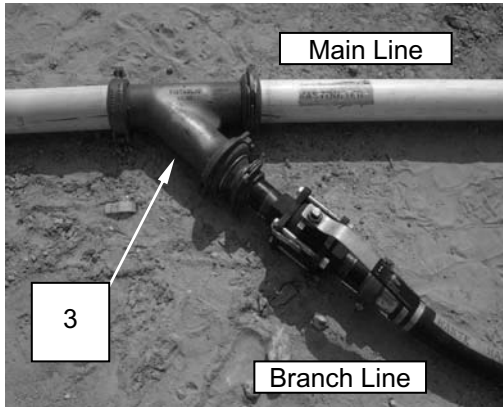


**WARNING**

Wear gloves and use caution when closing Victaulic snap-joints to avoid injuries due to pinching.

6. Starting at tank end of wastewater mainline, connect together PVC pipes (1) and (4), flexible suction hoses (2) (if required), reducing laterals (3), and pipe cap (6), using snap-joint couplings (5). Ensure reducing laterals (3) are installed with lateral input flat on ground and pointing inward toward tank end of mainline and pipe cap (6) is placed at end of line.





1. 4-in Cap Pipe Fitting
2. 4-in Snap-Joint Coupling (Typical)
3. 4-in x 2½-in Reducing Lateral
4. 4-in x 20-ft Grooved End PVC Pipe
5. 4-in x 10-ft Grooved End PVC Pipe
6. 4-in x 20-ft Grooved End Suction Hose
7. Pump, Trash, Centrifugal, Self-Priming

**TRASH PUMP CONNECTION**

The 180-GPM trash pump should be positioned in a convenient location on the main line, close to where the last branch line joins the main line. To install the pump onto the main line proceed as follows:

**WARNING**

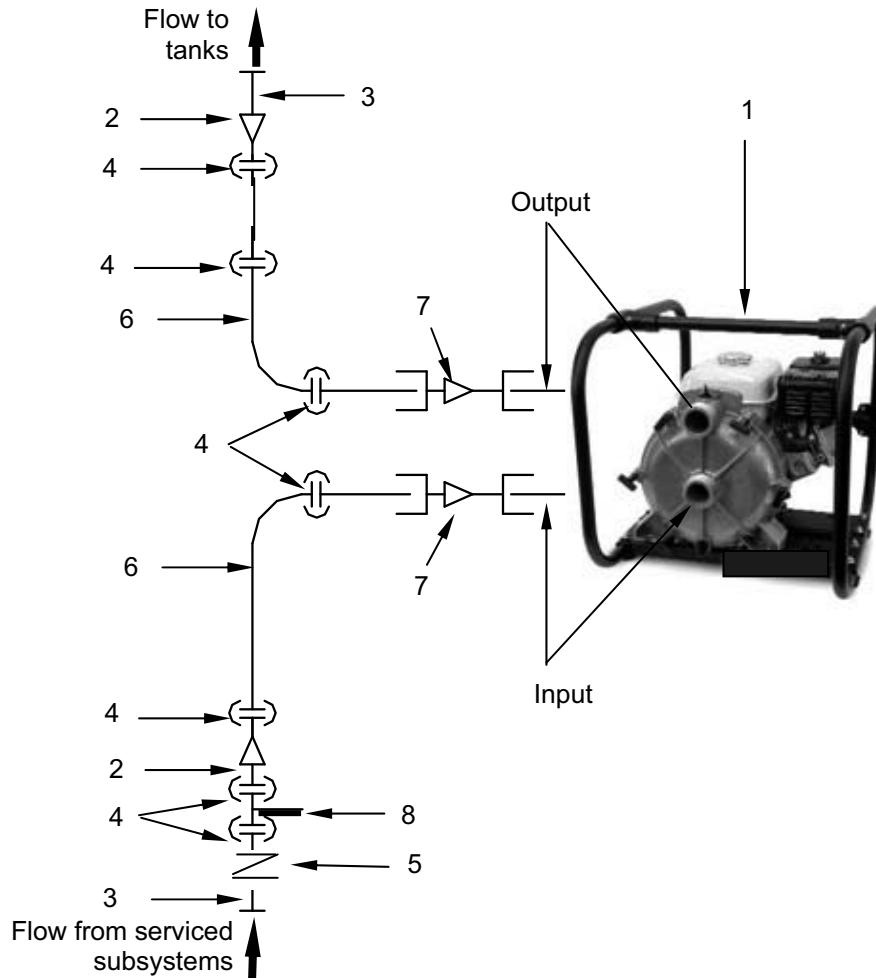
The self priming diesel trash pump has an empty weight of 108 pounds. To prevent injury three persons are required to lift it. Lifting should be accomplished with legs, not backs.

1. Position the pump (1) as previously prepared at the selected location on the main line.

**WARNING**

Wear gloves and use caution when closing Victaulic snap-joints to avoid injuries due to pinching.

2. Install a 4-inch x 2½-inch reducer (2) onto the 4-inch main line pipe (3).
3. Using a 2½-inch coupling clamp (4), install a 2½-inch check valve (5) onto the reducer (2).
4. Using a 2½-inch coupling clamp (4), install a 2½-inch x 10-foot hose (6) onto the check valve (5).
5. Using a 2½-inch coupling clamp (4), install a 2½-inch x 2-inch reducer (7) onto the 2½-inch hose (6).
6. Assemble the input line in the same manner with parts indicated, inserting a 4-inch Tee strainer (8) between the reducer (2) and the 4-inch main line pipe (3).



**ASSEMBLY AND LAYOUT OF WASTEWATER BRANCH LEGS**

Four branch leg connections are required to be made; two shower sites, one at kitchen, and one at laundry. All branch leg connections are identical. Equipment required for branch legs is found in Wastewater Kit Connection Assembly Facilities located TRICON 8A. Refer to Table 1 for inventory listing and WP 0092 00 for illustration of components.

All grooved end connections (4-inch or 2½-inch) are to be made with snap-joint couplings (1) of same size. Understanding of and compliance with procedures described under Assembly of Grooved End Pipe with Snap Joint Couplings are required for this procedure.

**Layout and Assembly of Typical Wastewater Branch Leg**



**WARNING**

Wear gloves and use caution when closing Victaulic snap-joints to avoid injuries due to pinching.

1. Install 2½-inch ball valve (2) to 4-inch x 4-inch x 2½-inch reducing lateral (3) already installed in wastewater mainline (4). Ensure ball valve (1) is left in the closed position (handle perpendicular to valve body).

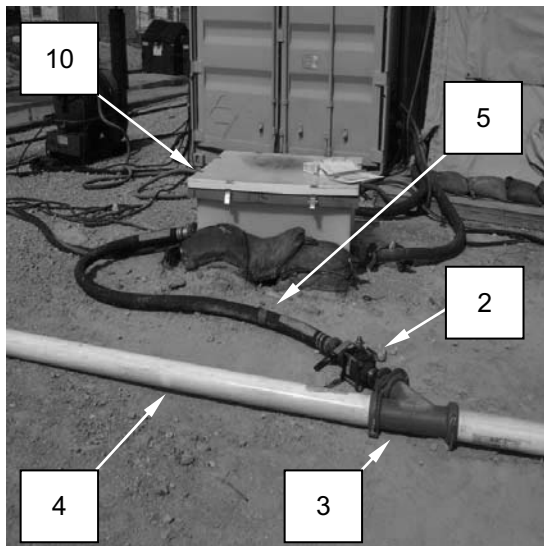
- To other end of ball valve (2), install one 2½-inch x 20-foot suction hose (5) and one 2½-inch x 10-foot suction hose (6).

### NOTE

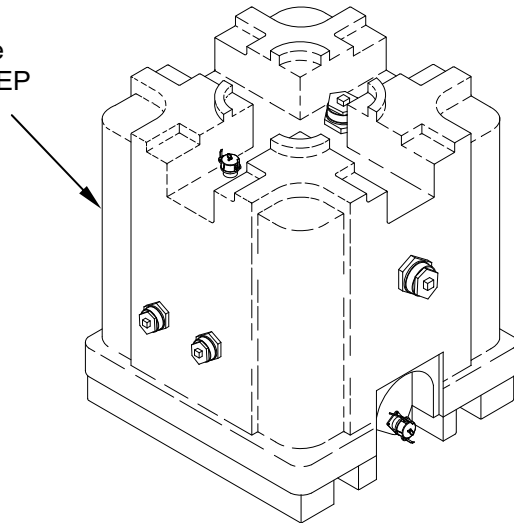
SEPs are shipped with subsystems with which they are used. Preparing the SEP for operation is the responsibility of serviced subsystem personnel. If the SEP of any serviced subsystem is not set up at the time the branch line is assembled, make all other wastewater connections, then return later to make final connection to the SEP.

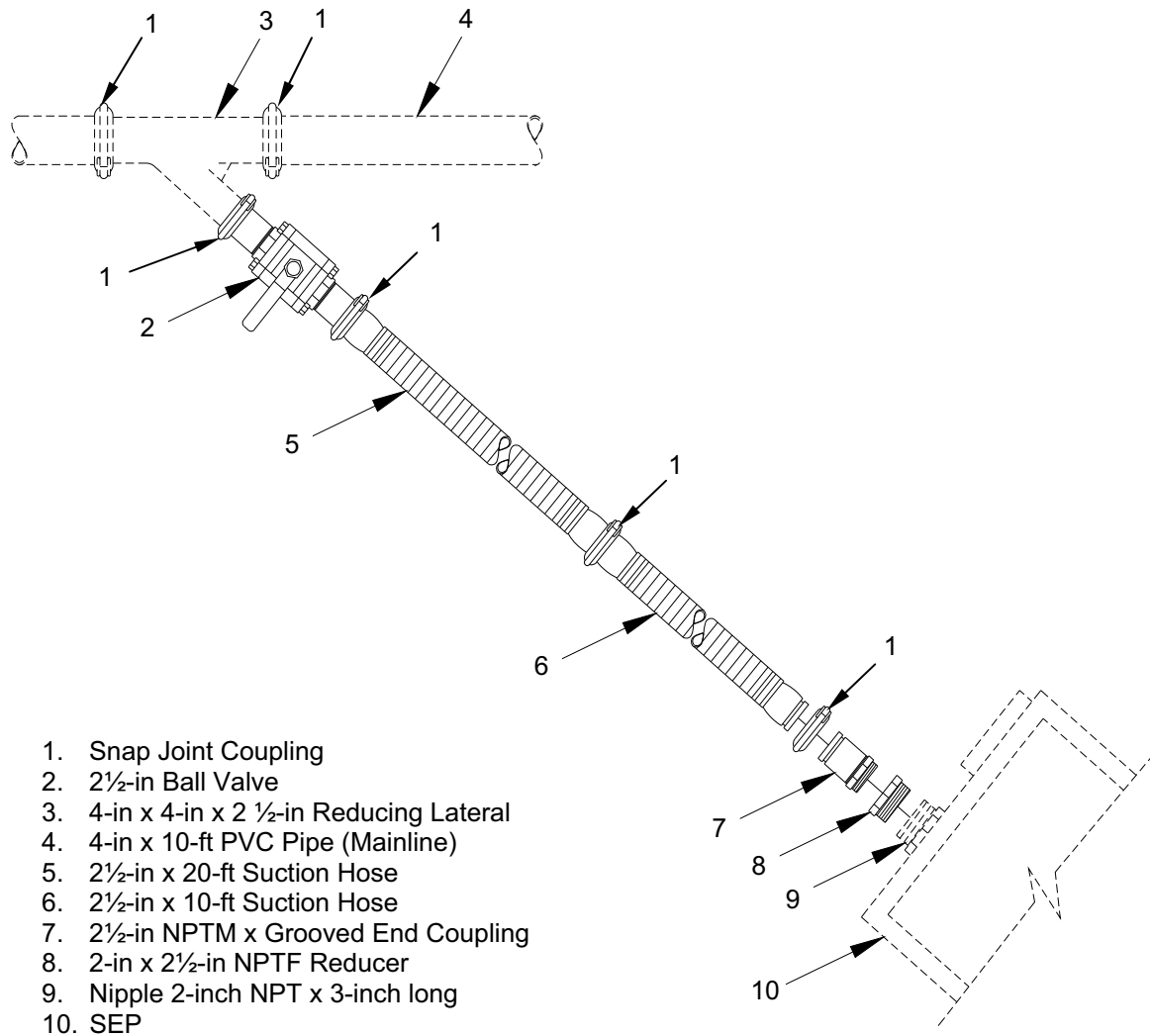
Several versions of the SEP are in use. Refer to TM 10-4630-206-12&P to identify the type at hand. Some of the older type tank bodies may have similar ports on all four sides. However, only the discharge port is connected to the sump pump. If the identity of the discharge port is in doubt, open the tank cover to identify the port.

- Install a 2½-inch NPT x grooved end coupling (7) onto the 2½-inch suction hose (6).
- Install a 2½-inch x 2-inch reducer (8) onto the grooved end coupling (7).
- Install 2-inch NPT x 3-inch long aluminum nipple (9) between the reducer (8) and the tank (10).



Alternate Model SEP





**OPTIONAL USE OF TRASH PUMP DURING TANK DISCHARGE**

The 180-GPM trash pump may be used when wastewater must be pumped from the tanks into a municipal sewer system or field-expedient disposal site.

**WARNING**



The self priming diesel trash pump has an empty weight of 108 pounds. To prevent injury three persons are required to lift it. Lifting should be accomplished with legs, not backs.

**NOTE**

When the 180-GPM trash pump assembly is to be used to evacuate the wastewater storage tank(s) the wastewater mainline can be operated on gravity flow. If this is not possible, it must be temporarily shut off until the 180-GPM pump can be re-installed.

The components and method to install the trash pump onto a 4-inch waste water line are described under TRASH PUMP CONNECTION, in this WP. To use the trash pump on the discharge side of the tanks, disassemble the trash pump connection components at the point where they join the 4-inch waste water



main line and install these components as required to reach the discharge point onto the 4-inch gate valve at the end of the tank discharge line.

## **OPERATING PROCEDURES FOR WASTEWATER COLLECTION**

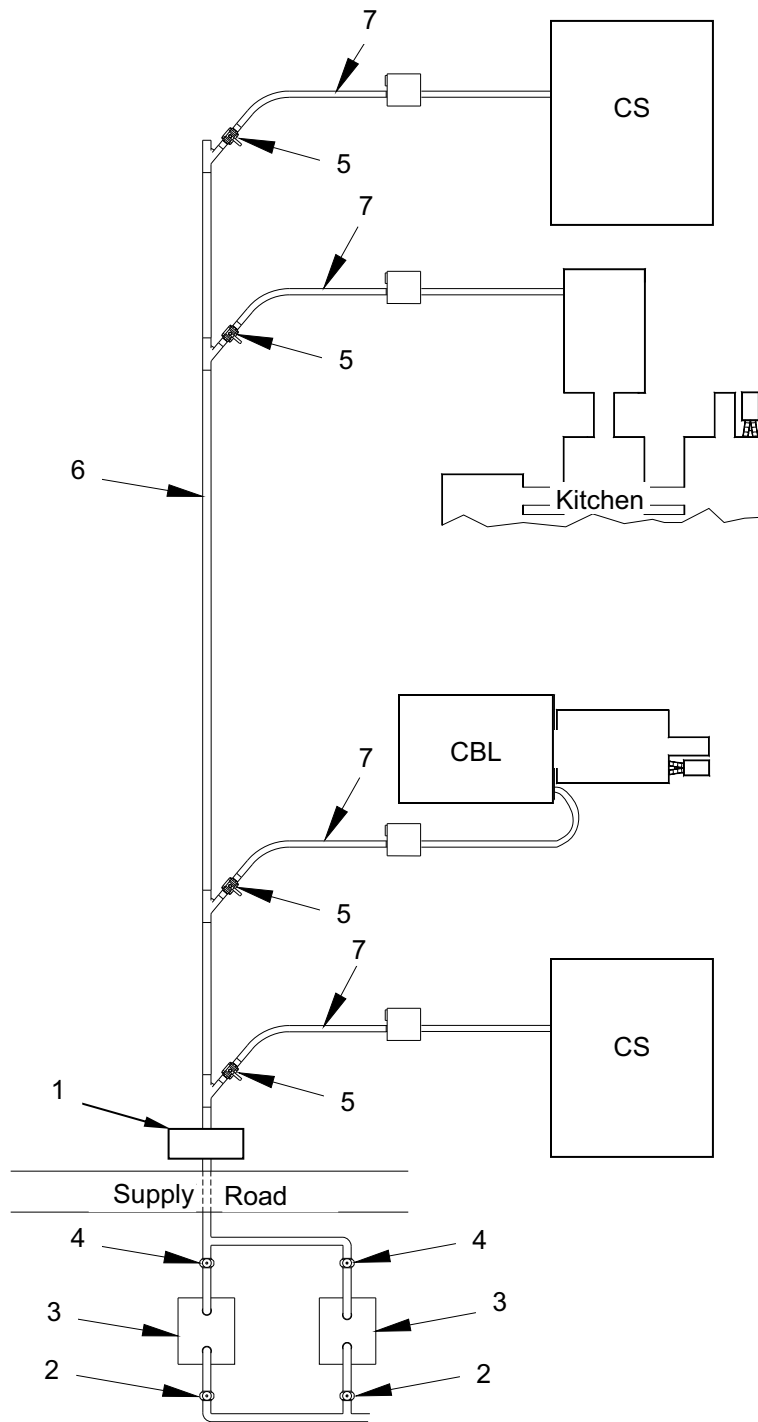
### **Initial Operation and System Check**

1. Understand all operating procedures for 20,000-Gallon Collapsible Fabric Tanks (Type II). Refer to TM 5-5430-219-13, or ask your supervisor for instructions if you encounter a problem with the 20,000-Gallon Collapsible Fabric Tanks (Type II) while operating wastewater collection.
2. Check to ensure the trash pump (1) diesel tank is full.

### **NOTE**

The trash pump fuel tank capacity is 2 quarts, providing a run time of 1.8 Hours on a full tank. Schedule refueling accordingly.

3. Ensure both gate valves (2) on discharge side of 20,000-Gallon Collapsible Fabric Tanks (Type II), (3) are closed.
4. Open gate valve (4) on mainline side of one tank (3), Tank 1 or Tank 2.
5. As serviced subsystems (laundry, showers, and kitchen) are ready to commence operation, open ball valve (5) for each branch leg.
6. Start trash pump (1) and check for proper operation.
7. During initial operation, walk entire wastewater mainline (6) and branch connections (7) several times, checking for leaks.
8. Check Tank 1 or Tank 2 (3) connections for leaks. Since only one tank is in operation at any one time, potential leaks in nonoperational tank can not be detected until that tank is placed in service.



### Routine Operation

1. Watch tank level and operational schedules of serviced subsystems (laundry, showers, and kitchen) to anticipate tank filling rate.
2. Under most routine operating conditions, one 20,000-Gallon Collapsible Fabric Tank (Type II) should sustain daily usage. If this is the case, avoid using second tank entirely, except in an emergency. This will simplify operation and preparation for movement if tank remains unused.
3. Drain tank(s) regularly. Do NOT wait until tank is full to begin draining operations.

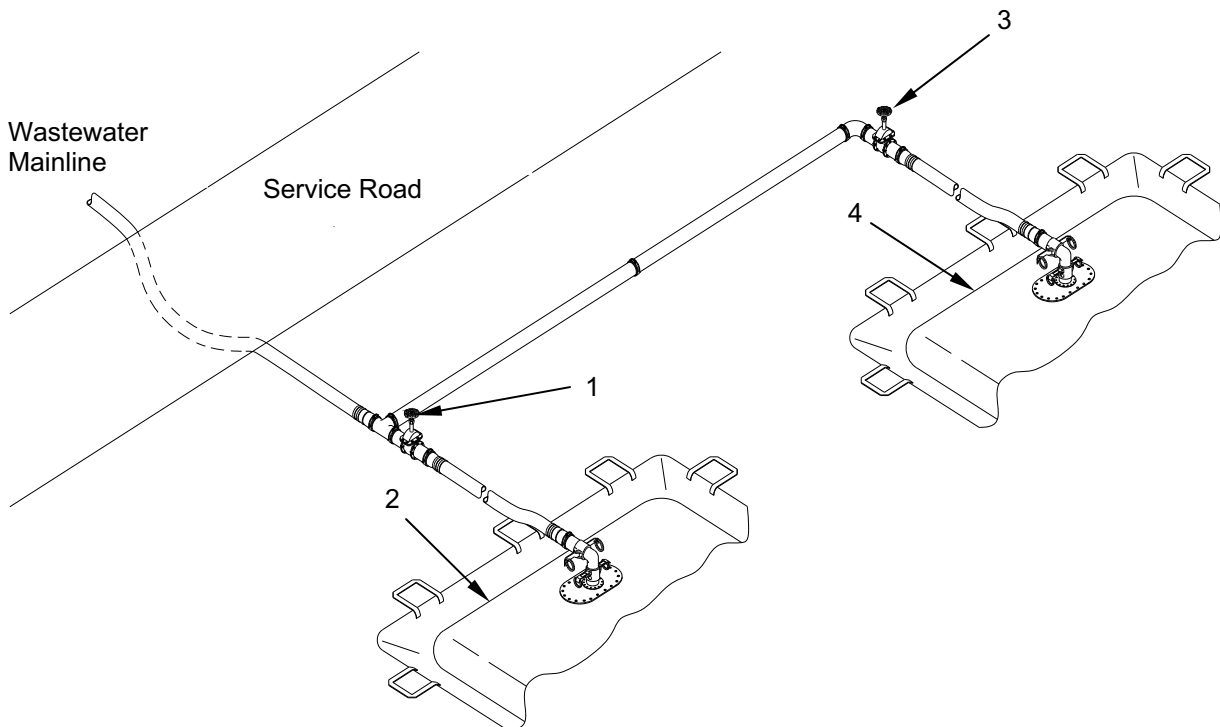
### Tank Switching

Use the following procedure to switch online 20,000-Gallon Collapsible Fabric Tank (Type II) from one to the other:

#### **CAUTION**

Always open valve to new online 20,000-Gallon Collapsible Fabric Tank (Type II) before closing valve on old online tank. Failure to observe this caution may result in damage to equipment and/or leaks caused by a build up of pressure.

1. Open gate valve (1) connected to new online tank (2) that is being placed into service.
2. Close gate valve (3) connected to present online tank (4) to be removed from service.

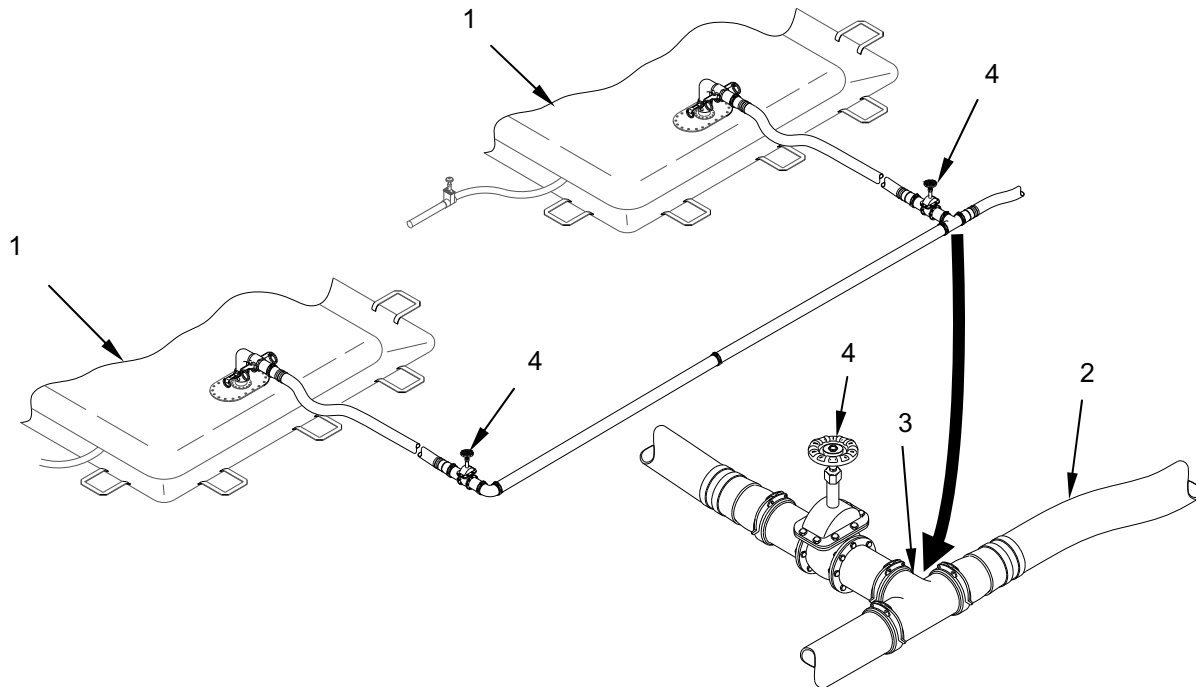


### Draining Wastewater Collection Tanks

There are two methods of draining wastewater collection tanks. One is to use a mobile pump/tank apparatus to transfer tank contents for transportation to an off-site location for disposal; the other is to use the trash pump to pump tanks to local municipal sewer, or field-expedient disposal site.

### Draining with Mobile Pump/Tank Apparatus

1. Bring mobile pump/tank apparatus into position on discharge side of 20,000 Gallon Collapsible Fabric Tanks (Type II) (1).
2. Connect mobile pump/tank apparatus suction hose (2) to four-inch grooved end T (3) installed discharge side of tanks (1).
3. Open gate valve (4) on discharge side of the tank (1) to be drained. It is not necessary to close any valves on mainline side of tanks.
4. Operate mobile pump/tank apparatus to remove tank content.
5. When draining is complete, or when mobile pump/tank apparatus has reached capacity, close gate valve (4).
6. Repeat as necessary to remove contents of tank(s) (1). When done, remove suction hose (2) from T (3).



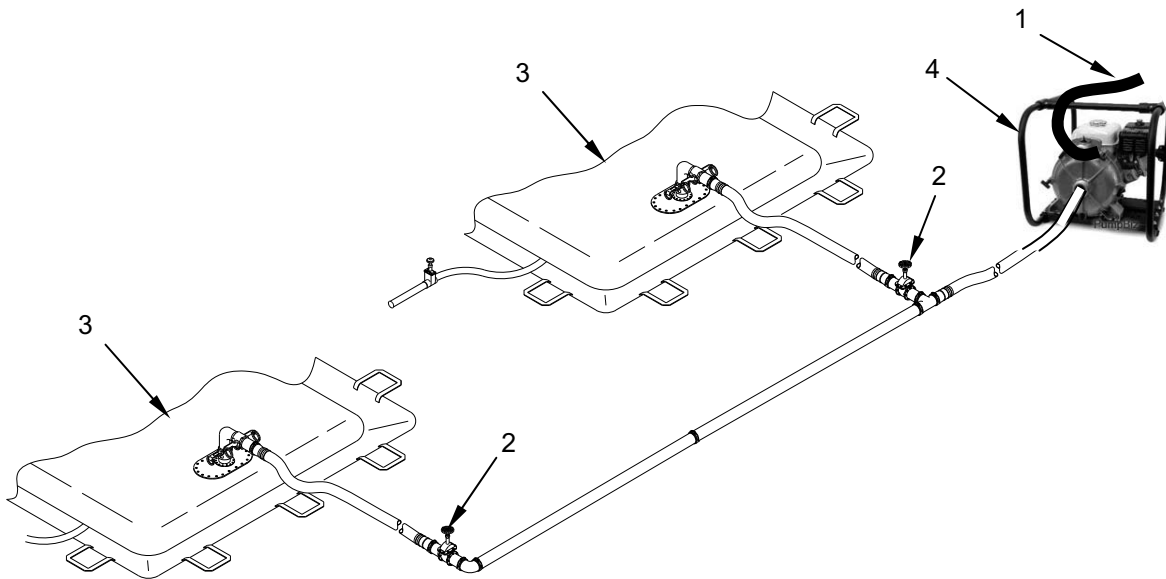
### Draining Tank with Trash Pump

#### NOTE

If trash pump is not already installed, refer to TRASH PUMP CONNECTION, and OPTIONAL USE OF TRASH PUMP DURING TANK DISCHARGE in this WP. The trash pump fuel tank capacity is 2 quarts, providing a run time of 1.8 Hours on a full tank. Schedule refueling accordingly.

1. Ensure remote end of discharge hose (1) is properly positioned in municipal sewer access or field-expedient disposal site as appropriate.
2. Ensure trash pump diesel tank is full.

3. Open gate valve (2) on discharge side of the 20,000 Gallon Collapsible Fabric Tanks (Type II) (3) to be drained. It is not necessary to close any valves on mainline side of tanks.
4. Operate diesel, self-priming trash pump (4) in accordance with commercial instructions furnished. Start pump (4) and check to ensure tank content is being discharged into sewer or disposal site.
5. Monitor tank level and stop pump (4) when tank contents have been drained.
6. Close gate valve(s) (2) on discharge side of tank(s).



### OPERATING PROCEDURES FOR 20,000 GALLON COLLAPSIBLE STORAGE TANK TYPE II

Operate the 20,000 Gallon Collapsible Storage Tank Type II in accordance with TM 5-5430-219-13.

### OPERATING PROCEDURES FOR SEP

Operate the SEP in accordance with TM 10-4630-206-12&P.

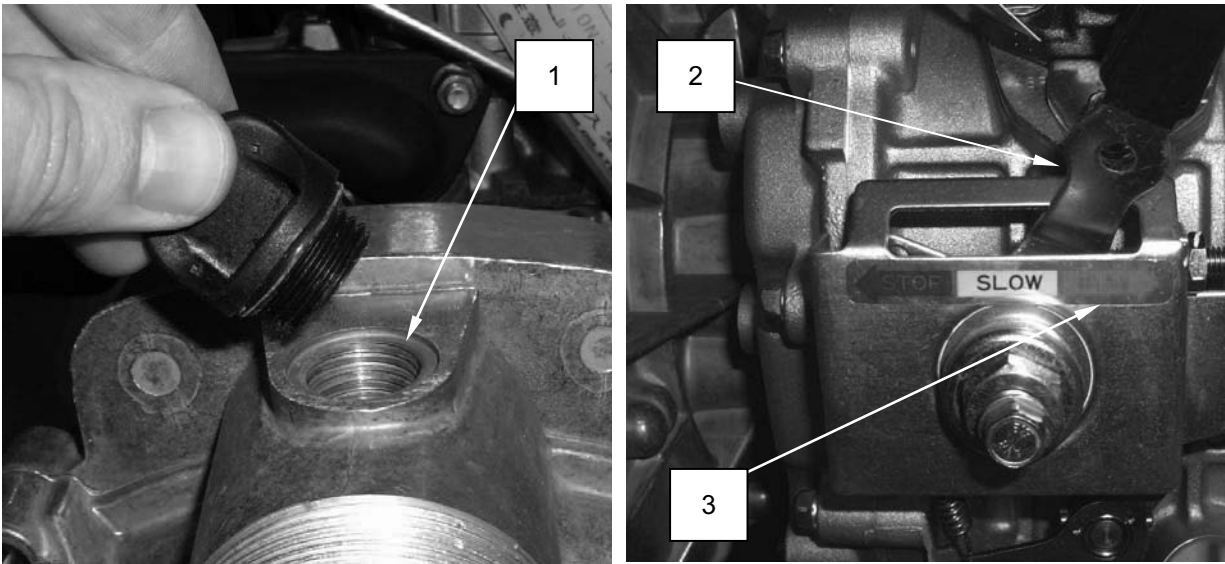
### OPERATING PROCEDURES FOR TRASH PUMP (Model PN 2S5YR)

1. Perform operator Preventive Maintenance Checks and Services (PMCS) on the trash pump as described in Table 12 of WP 0059 00.

### NOTE

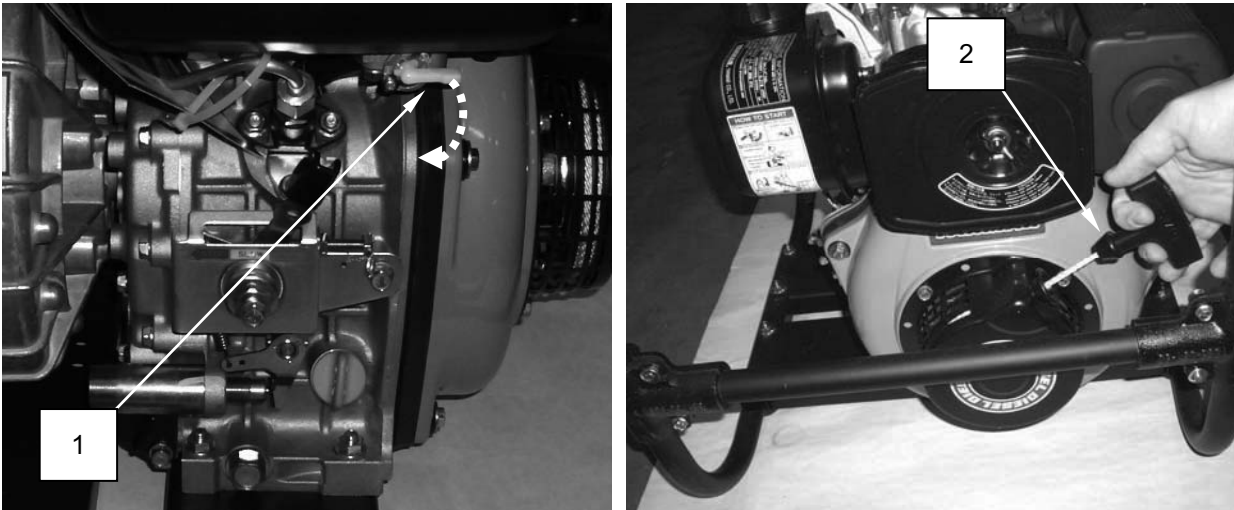
The trash pump only requires priming if the pump has been drained. It should not need to be reprimed if shut down during the course of normal operation.

2. Fill the pump with water through the priming port (1).
3. Place the engine speed control lever (2) in the RUN (Green) position (3).



4. Start the pump as follows:

- a. Place the fuel cock (1) in the open (down) position.
- b. Grasp the recoil starter (2) handle and pull out slowly until strong resistance can be felt.
- c. Slowly return the starter recoil handle to the initial position.

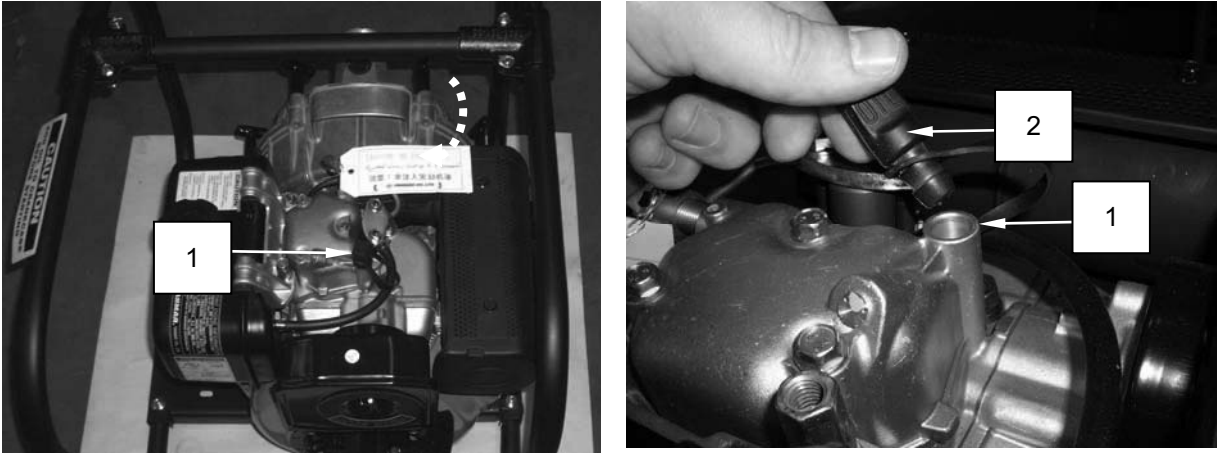


- d. Pull the handle all the way out with a strong and even motion. Use two hands if necessary.
- e. Slowly return the recoil starter to the initial position.
- f. If the engine did not start, repeat step d.
- g. If the pump does not begin to move liquid after 30 seconds, move the speed control lever to stop to shut down the engine, and then reprime the pump.

### Cold Weather Start

When starting the engine in cold weather, the recoil mechanism may be difficult to operate. To help start the engine in these conditions, locate the oil port (1) on top of the engine. Remove the oil plug (2) and

using the squeeze bottle and spout provided with the pump, add about 0.122 cu-inch of engine oil to the port. Reinsert the oil plug and proceed to start the engine as described above.



### **CAUTION**

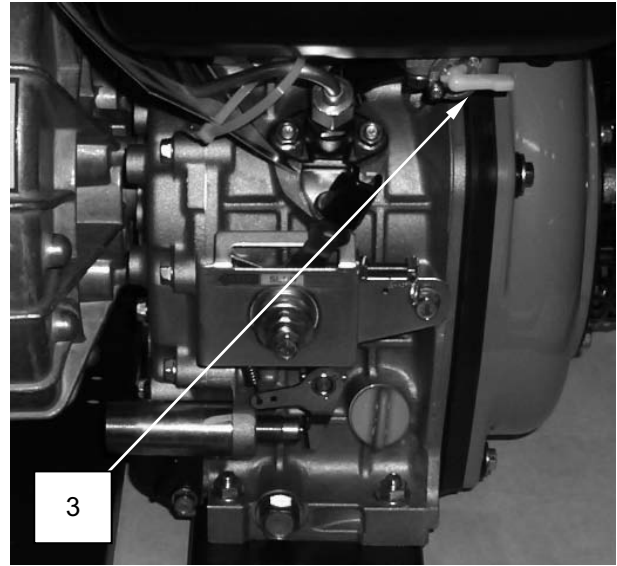
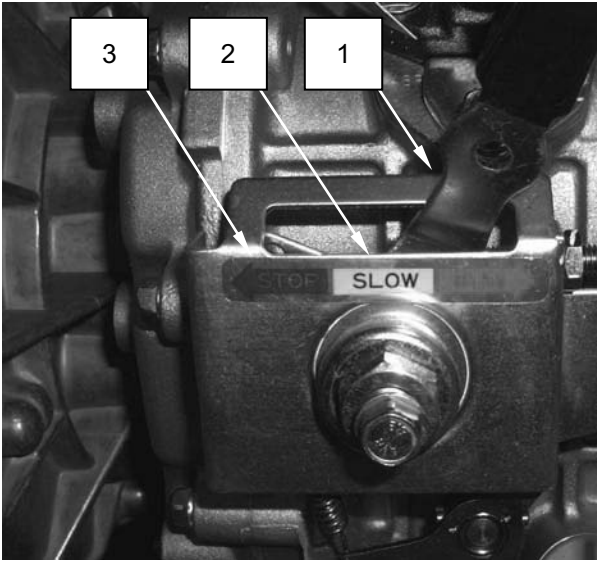
On initial start up of a new engine, allow it to idle for approximately 15 minutes while checking for fuel and oil leaks. During the first hour of operation, vary the engine speed and the load on the engine. Short periods of maximum engine speed and load are recommended. Avoid prolonged operation at minimum or maximum engine speeds and loads for the next 4 to 5 Hours to provide for proper engine break-in.

### **NOTE**

The trash pump fuel tank capacity is 2 quarts, providing a run time of 1.8 Hours on a full tank. Schedule refueling accordingly.

### **Shut Down**

1. Set the engine speed control lever (1) to SLOW (2).
2. Let the engine run at this speed for about 5 Minutes.
3. Set the engine speed control lever (1) to STOP (3).
4. Place the fuel cock (4) in the OFF (horizontal) position.



**END OF WORK PACKAGE**



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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS - FOOD SERVICE SUBSYSTEM**

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**GENERAL**

This WP contains operating procedures for the food service subsystem. Refer to TM 10-7310-282-10 for operating instructions of the kitchen equipment. The Operation of the food service subsystem in the MSCW configuration is described in WP 0038 00.

Before assembly and preparation for use of the food service subsystem, the Force Provider module site selection, planning, preparation, staking and staging of the food service site must be completed. ISO 10A, TRICON 10B, 10C, 10D, 10E, 10F, 10G, 10I, 10J, 10K, 10L, 10M, 10N, 10P must be staged as described in WP 0022 00.

The food service subsystem requires connection to a power source, water distribution, and the wastewater collection subsystem.

**SCOPE**

Assembly and preparation for use of the food service subsystem consists of the following:

- Unpacking and inventory of food service equipment in ISO 10A, TRICON 10B, 10C, 10D, 10E, 10F, 10G, 10I, 10J, 10K, 10L, 10M, 10N, 10P.
- Assembly and preparation for use of TEMPER using TM 10-8340-224-13.
- Installation and preparation for use of ECUs.
- Assembly and preparation for use of power group components.
- Assembly and preparation for use of food service internal water distribution and wastewater systems.
- Assembly and preparation for use of 600-cubic foot refrigerator using TM 9-4110-241-13 and TM 5-4110-242-14.
- Assembly and preparation for use of food sanitation center using TM 10-7360-211-13&P.
- Installation of grease trap.
- Connecting utilities (power, water, and graywater) to the SEP, 600-cubic foot refrigerators, ECUs, TEMPER (Lights), grease trap, and ASH (if installed).
- Providing utility connections for kitchen equipment.

**NOTE**

The food service TEMPER consisting of the kitchen, dining, food preparation and sanitation tents should be erected over a prepared hardstand (concrete). If a hardstand is not possible, a wood floor using plywood and 2-inch x 4-inch lumber should be prepared. The wood floor should be treated with a weather-sealing product. If a hardstand or weather-sealed wood floor is available, the TEMPER fabric flooring should not be installed. As a minimum requirement, an untreated wood floor is acceptable, however, the TEMPER fabric floor furnished with each tent must then be installed over the wood floor as part of the TEMPER erection process as described in TM 10-8340-224-13.

**UNPACKING AND INVENTORY**

Unpack and inventory food service subsystem components using Table 1 through 10 of this WP, and TM 10-7310-282-10, as appropriate.

Food service equipment is packed in the following container types and quantities:

- One ISO Type 10A (Refrigeration Kit, Part A)
- One TRICON Type 10B (Kitchen, Part A) (Refer to TM 10-7310-282-10)
- One TRICON Type 10C (Sanitation Kit)
- One TRICON Type 10D (Food Service Water Distribution Kit)
- Two TRICON Type 10E (Food Service ECU Kits)
- One TRICON Type 10F (Dining Tent Kit - Part A)
- One TRICON Type 10G (Dining Tent Kit - Part B)
- One TRICON Type 10I (Refrigeration Kit, Part B)
- One TRICON Type 10J (Wastewater System Kit)
- One TRICON Type 10K (Food Sanitation/Preparation Tent Kit)
- One TRICON Type 10L (Kitchen Tent Kit)
- One TRICON Type 10M (Kitchen, Part B) (Refer to TM 10-7310-282-10)
- One TRICON Type 10N (Kitchen, Part C) (Refer to TM 10-7310-282-10)
- One TRICON Type 10P (Kitchen, Part D) (Refer to TM 10-7310-282-10)

1. Open each container and check its contents against Tables 1 through 10 for the container type (the container type is stenciled on the container door as illustrated in WP 0021 00). (TRICON 10B, 10H, 10M, 10N, and 10P must be inventoried using TM 10-7310-282-10, or inventory sheets posted inside container door.)
2. Remove each item from the container and set it aside, but not in an area where equipment is to be positioned for operation.
3. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.

**Table 1. Inventory List for Refrigeration Kit, Part A ISO Type 10A.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING, ISO, 20 FT, END OPENING, TYPE I	WP 0085 00, COEI, Item 3	1
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	14
<b>REFRIGERATOR, PREFABRICATED, 600 CUBIC FOOT</b>	TM 9-4110-241-13	2
KEY, SOCKET HEAD SCREW	TM 9-4110-241-13	4
THERMOMETER	TM 9-4110-241-13	2
CORNER PANEL	TM 9-4110-241-13	8
WALL PANEL	TM 9-4110-241-13	10
WALK IN DOOR PANEL (REFER TO TRICON 10J)	TM 9-4110-241-13	0
EVAPORATOR PANEL	TM 9-4110-241-13	2
FLOOR/CEILING PANEL, LEFT	TM 9-4110-241-13	4
FLOOR/CEILING PANEL, RIGHT	TM 9-4110-241-13	4
FLOOR/CEILING PANEL, CENTER	TM 9-4110-241-13	4
DOOR CANOPY	TM 9-4110-241-13	2
FLOOR RACK, SMALL	TM 9-4110-241-13	8
FLOOR RACK, LARGE	TM 9-4110-241-13	4
LIGHT ASSEMBLY	TM 9-4110-241-13	2
TECHNICAL MANUAL, PREFABRICATED REFRIGERATOR, TM 9-4110-241-13	WP 0093 00, BII, Item 1	2
TECHNICAL MANUAL, PREFABRICATED REFRIGERATOR, TM 9-4110-241-23&P	WP 0093 00, BII, Item 2	1

Refer to TM 10-7310-282-10 for inventory listing of Kitchen Kit, Part A type 10B.

**Table 2. Inventory List for Sanitation Kit, TRICON Type 10C.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	4
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	8
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	6
<b>FOOD SANITATION CENTER</b>	WP 0093 00, COEI, Item 12	2
THERMOMETER, 5-1/2 IN	TM 10-7360-211-13&P	6
FIRE EXTINGUISHER, DRY CHEMICAL, 5 LB	TM 10-7360-211-13&P	2
DRAIN HOSE ASSEMBLY, THREE SINKS	TM 10-7360-211-13&P	2
RACK ASSEMBLY, STORAGE/DRYING	TM 10-7360-211-13&P	6
DRAIN HOSE ASSEMBLY, SINGLE SINK	TM 10-7360-211-13&P	2
SINK ASSEMBLY	TM 10-7360-211-13&P	6
TABLE, DRAIN	TM 10-7360-211-13&P	2
TABLE, FOLDING LEGS	TM 10-7360-211-13&P	2
RACK, SINK, IMMERSION	TM 10-7360-211-13&P	4
ADAPTER, SINK	TM 10-7360-211-13&P	4
SHELF ASSEMBLY, STORAGE AND DISPLAY	TM 10-7360-211-13&P	2
BRACKET ANGLE	TM 10-7360-211-13&P	6
TRASH BARREL, 32 GALLON	TM 10-7360-211-13&P	4
TECHNICAL MANUAL, SANITATION CENTER TM 10-7360-211-13&P	WP 0093 00, BII, Item 4	1
<b>REMAINING SANITATION KIT ITEMS</b>		
COVER, CAN, ASH AND GARBAGE	WP 0093 00, COEI, Item 24	11
CAN, ASH AND GARBAGE, 32 GALLON, STEEL, GALVANIZED	WP 0093 00, COEI, Item 9	11
WRINGER, MOP, SIZE-SMALL, TYPE-GEAR & RACK	WP 0093 00, COEI, Item 93	1
BUCKET, MOP, STEEL, OVAL, 16 QUART, W/ CASTERS	WP 0093 00, COEI, Item 4	1
BROOM, UPRIGHT	WP 0093 00, COEI, Item 3	5
MOP HANDLE	WP 0093 00, COEI, Item 61	1
MOP HEAD	WP 0093 00, COEI, Item 62	2

**Table 3. Inventory List for Food Service Water Distribution Kit, TRICON Type 10D.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	5
<b>WATER DISTRIBUTION KIT, FORCE PROVIDER MODULAR FIELD KITCHEN</b>	WP 0093 00, COEI, Item 20	1
HOSE SECTION, 1 IN X 25 FT, WATER	WP 0093 00, COEI, Item 64	4
HOSE SECTION, 1/2 IN X 40 FT, WATER	WP 0093 00, COEI, Item 65	4
MANIFOLD, WATER DISTRIBUTION	WP 0093 00, COEI, Item 66	1
FAUCET, DOUBLE	WP 0093 00, COEI, Item 67	4
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN X 25 FT, RUBBER, DISCHARGE, POTABLE WATER RD F	WP 0093 00, COEI, Item 68	1
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN X 10 FT, M X F, RUBBER, DISCHARGE ONLY, POTABLE WATER, RD F	WP 0093 00, COEI, Item 69	1
PIPE FITTING, COUPLING, BRASS, 1/2 IN F NPT	WP 0093 00 COEI Item 108	5

**Table 3. Inventory List for Food Service Water Distribution Kit, TRICON Type 10D - Continued.**

Subcomponent	Where Listed/Illustrated	Qty
PIPE FITTING, TEE, BRASS, 1/2 IN, F NPT	WP 0093 00 COEI Item 109	5
COMPRESSION TUBE FITTING, 3/8 IN NPT F X 1/2 IN TUBE	WP 0093 00, COEI, Item 71	1
COMPRESSION TUBE FITTING, 1/2 IN NPT F X 1/2 IN TUBE	WP 0093 00, COEI, Item 70	1
HOSE, NYLOBRAID, 1/2 IN X 100 FT COIL	WP 0093 00, COEI, Item 72	3
HOSE NIPPLE, 1/4 IN NPT F X 1/2 IN HOSE, BRASS	WP 0093 00, COEI, Item 73	4
HOSE NIPPLE, 1/2 IN NPT F X 1/2 IN HOSE, BRASS	WP 0093 00, COEI, Item 74	1
HOSE NIPPLE, 3/8 IN NPT F X 1/2 IN HOSE, BRASS	WP 0093 00, COEI, Item 75	4
HOSE NIPPLE, 3/4 IN NPT F X 1/2 IN HOSE, BRASS	WP 0093 00, COEI, Item 76	4
HOSE FITTING, BRASS, 1/2 IN BARBED X M NPT	WP 0093 00 COEI Item 110	25
CLAMP, HOSE, LOW PRESSURE, TYPE F, SAE #10	WP 0093 00, COEI, Item 77	25
TEE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN FC X 1-1/2 FC X 1 IN MC	WP 0093 00, COEI, Item 78	1
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1 IN x 25 FT, M X F, COLD WATER SUPPLY	WP 0093 00, COEI, Item 79	1
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1 IN X 25 FT, F X F, HOT WATER SUPPLY	WP 0093 00, COEI, Item 80	1
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/4 IN X 40 FT, F X F, DRAIN	WP 0093 00, COEI, Item 81	5
CROSS ASSEMBLY, WASTE WATER, 1-1/4 INCH MC X MC X MC X MC	WP 0093 00, COEI, Item 82	1
HOSE ASSEMBLY, 1/2 IN, COLD WATER SUPPLY, TEE, ICE MACHINE	WP 0093 00, COEI, Item 83	1
HOSE ASSEMBLY, 1/2 IN, COLD WATER SUPPLY, DOUBLE TEE, SANITATION CENTER	WP 0093 00, COEI, Item 84	1
HOSE ASSEMBLY, 1/2 IN, COLD WATER SUPPLY, TEE, KITCHEN AND DINING FACILITY	WP 0093 00, COEI, Item 85	1
HOSE ASSEMBLY, 1/2 IN, COLD WATER SUPPLY, STOCK POTS	WP 0093 00, COEI, Item 86	1
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1/2 IN, M X F, COLD WATER SUPPLY, FOOD PREP TENT	WP 0093 00, COEI, Item 87	1
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1/2 IN X 40 FT, F X F, HOT WATER SUPPLY	WP 0093 00, COEI, Item 88	2
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1/2 IN, HOT WATER SUPPLY, DOUBLE TEE, SANITATION CENTER	WP 0093 00, COEI, Item 89	1
TEE ASSEMBLY, QDISC, CAM-LOCK, 1-1/4 MALE, STEAM TABLE DRAIN	WP 0093 00, COEI, Item 90	1
HOSE SECTION, 1-1/4 IN X 45 FT, WATER	WP 0093 00, COEI, Item 91	4
HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM-LOCK, 1/2 IN X 25 FT, M X F	WP 0093 00, COEI, Item 92	2
HOSE ASSEMBLY, BLACK WATER, QDISC, CAM-LOCK, 2 IN X 25 FT, M X F	WP 0093 00, COEI, Item 93	2
TAPE, ANTISEIZE, SIZE 2, 1/2 IN WIDE X 260 IN LONG	WP 0093 00, COEI, Item 94	10
COUPLING HALF, Q-DISC, CAM LOCK, MALE, HOSE SHANK, TYPE II, 1/2 IN, BRASS	WP 0093 00, COEI, Item 95	2
COUPLING HALF, Q-DISC, CAM LOCK, MALE, HOSE SHANK, TYPE II, 1-1/4 IN, BRASS	WP 0093 00, COEI, Item 96	2
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, HOSE SHANK, TYPE VI, 1/2 IN, BRASS	WP 0093 00, COEI, Item 97	2
COUPLING HALF, Q-DISC, CAM LOCK, FEMALE, HOSE SHANK, TYPE VI, 1-1/4 IN, BRASS	WP 0093 00, COEI, Item 98	4
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, 1/2 IN, BRASS	WP 0093 00, COEI, Item 99	2
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, 1-1/4 IN, BRASS	WP 0093 00 COEI Item 100	2

**Table 3. Inventory List for Food Service Water Distribution Kit, TRICON Type 10D - Continued.**

Subcomponent	Where Listed/Illustrated	Qty
COUPLING HALF, Q-DISC, CAM LOCK, PLUG, TYPE X, 1/2 IN, BRASS	WP 0093 00 COEI Item 101	2
COUPLING HALF, Q-DISC, CAM LOCK, PLUG, TYPE X, 1-1/4 IN, BRASS	WP 0093 00 COEI Item 102	2
GASKET, COUPLING HALF, QDISC, CAM-LOCK, 1/2 IN	WP 0093 00 COEI Item 103	1
GASKET, COUPLING HALF, QDISC, CAM-LOCK, 1 IN	WP 0093 00 COEI Item 104	1
GASKET, COUPLING HALF QDISC, CAM-LOCK, 1-1/4 IN	WP 0093 00 COEI Item 105	1
CLAMP, HOSE, LOW PRESSURE, TYPE F, SAE #12	WP 0093 00 COEI Item 106	24
CLAMP, HOSE, LOW PRESSURE, TYPE F, SAE #24	WP 0093 00 COEI Item 107	24
<b>HEATER, WATER, LIQUID FUEL, M-80</b>	WP 0093 00, COEI, Item 21	2
ELBOW, AIR CONDITIONING	TM 10-4510-206-14	2
PIPE, AIR CONDITIONING	TM 10-4510-206-14	2
CAP, FLUE	TM 10-4510-206-14	2
DRUM FILL ADAPTER ASSEMBLY, TYPE II	TM 10-4510-206-14	2
HOSE ASSEMBLY, FUEL	TM 10-4510-206-14	4
TECHNICAL MANUAL, M80 WATER HEATER, TM 10-4520-259-13&P	WP 0093 00, BII, Item 5	1
<b>REMAINING WATER DISTRIBUTION KIT ITEMS</b>		
DRUM, SHIPPING AND STORAGE, STEEL, 55-GALLON	WP 0093 00, COEI, Item 22	1
PUMP UNIT, CENTRIFUGAL	WP 0093 00, COEI, Item 16	1
POWER CABLE, CLASS L TO COMMERCIAL, 20 AMP	WP 0093 00, COEI, Item 17	2
BENCH, 6 FT	WP 0093 00, COEI, Item 18	4
TABLE, FOLDING, 6 FT, ALUMINUM	WP 0093 00, COEI, Item 19	17

**Table 4. Inventory List For Food Service ECU Kit TRICON Type 10E.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
<b>AIR CONDITIONER ASSY, 54 K BTUH, 208V, 3 PHASE, 50/60 HZ, HORIZONTAL</b>	WP 0093 00, COEI, Item 23	2
COVER, DUCT	TM 9-4120-398-14	4
DUCT HOLDER - 7 FT	TM 9-4120-398-14	2
DUCT HOLDER - 9 FT	TM 9-4120-398-14	2
DUCT, FLEXIBLE - 7 FT	TM 9-4120-398-14	2
DUCT, FLEXIBLE - 9 FT	TM 9-4120-398-14	2
PULLEY BUSHING (50HZ OPERATION)	TM 9-4120-398-14	2
PULLEY (50HZ OPERATION)	TM 9-4120-398-14	2
HOSE ADAPTER, DRAIN	TM 9-4120-398-14	4
TUBING, SILICONE, 15 FT	TM 9-4120-398-14	4
TECHNICAL MANUAL, AIR CONDITIONER, 54,000 BTU/HR TM 9-4120-398-14	WP 0093 00, BII, Item 13	4
<b>FLOODLIGHTS</b>	WP 0097 00, COEI	
TRIPOD FLOODLIGHT, 1000W	WP 0093 00, COEI, Item 24	1
TRIPOD FLOODLIGHT, 2000W	WP 0093 00, COEI, Item 25	1
EXTENSION CORD, 50 FT, #12 AWG/3	WP 0093 00, COEI, Item 27	2
GLOVE, INSERT, COTTON	WP 0093 00, COEI, Item 26	1
REMAINING ECU KIT ITEMS		
DEBRIS SCREEN, AIR CONDITIONER DUCT	WP 0093 00, COEI, Item 28	2

**Table 4. Inventory List For Food Service ECU Kit TRICON Type 10E - Continued.**

Subcomponent	Where Listed/Illustrated	Qty
<b>REMAINING ECU KIT ITEMS</b>		
DEBRIS SCREEN, AIR CONDITIONER DUCT	WP 0093 00, COEI, Item 28	2
TRUNK, LOCKER	WP 0093 00, COEI, Item	10
CHAIR, FOLDING, STEEL	WP 0093 00, COEI, Item 29	14

**Table 5. Inventory List for Dining Tent Kit, Part A TRICON Type 10F.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	7
<b>TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE XVIII, 96 FT, GREEN</b>	TM 10-8340-224-13	1
PIN, TENT, WOOD, 24 IN	TM 10-8340-224-13	50
FRAME, END SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	1
HEADER ASSEMBLY	TM 10-8340-224-13	2
PURLIN ASSEMBLY	TM 10-8340-224-13	5
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	2
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	1
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	2
FRAME, WINDOW SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	7
HEADER ASSEMBLY	TM 10-8340-224-13	7
PURLIN ASSEMBLY	TM 10-8340-224-13	35
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	7
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	14
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	7
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	7
FRAME, DOOR SECTION, TEMPER (W/COVER) (REFER TO TRICON 10G)	TM 10-8340-224-13	0
HEADER ASSEMBLY (REFER TO TRICON 10G)	TM 10-8340-224-13	0
PURLIN ASSEMBLY (REFER TO TRICON 10G)	TM 10-8340-224-13	0
PURLIN ASSEMBLY, DOOR SILL (REFER TO TRICON 10G)	TM 10-8340-224-13	0
RIDGE EXTENDER ASSEMBLY (REFER TO TRICON 10G)	TM 10-8340-224-13	0
EAVE EXTENDER ASSEMBLY (REFER TO TRICON 10G)	TM 10-8340-224-13	0
COVER, FRAME SECTION, TEMPER (REFER TO TRICON 10G)	TM 10-8340-224-13	0
ARCH ASSEMBLY, TEMPER (REFER TO TRICON 10G)	TM 10-8340-224-13	0
FRAME ASSEMBLY, VESTIBULE, TEMPER	TM 10-8340-224-13	6
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	24
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	6
END SECTION, TEMPER	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	4
LINE, TENT	TM 10-8340-224-13	4
FLY, TENT, 16 FT, TEMPER	TM 10-8340-224-13	6
SLIP, TENT LINE	TM 10-8340-224-13	36
LINE, TENT	TM 10-8340-224-13	36
COVER, TENT, TEMPER	TM 10-8340-224-13	9
DOOR SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	0
SLIP, TENT LINE	TM 10-8340-224-13	0
LINE, TENT	TM 10-8340-224-13	0

Table 5. Inventory List for Dining Tent Kit, Part A TRICON Type 10F - Continued.

Subcomponent	Where Listed/Illustrated	Qty
WINDOW SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	7
SLIP, TENT LINE	TM 10-8340-224-13	28
LINE, TENT	TM 10-8340-224-13	28
LINER, END SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	2
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	4
FLOOR, 8 FT, SINGLE PLY, TEMPER	TM 10-8340-224-13	6
VESTIBULE WITH DOOR, TEMPER	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	8
VESTIBULE TENT SECTION	TM 10-8340-224-13	2
LINE, TENT	TM 10-8340-224-13	8
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	2
FLOOR, VESTIBULE, SINGLE PLY, TEMPER	TM 10-8340-224-13	2
CONTAINER, VESTIBULE, TEMPER	TM 10-8340-224-13	2
PLENUM, END WALL, 16 FT, TEMPER	TM 10-8340-224-13	0
PLENUM, EXTENDABLE, 16 FT, TEMPER	TM 10-8340-224-13	0
PLENUM, ENTRANCE 16 FT, TEMPER	TM 10-8340-224-13	0
DOOR, DOUBLE BUMP-THROUGH, CL A, GREEN	TM 10-8340-224-13	0
PIN, TENT, STEEL, 12 IN	TM 10-8340-224-13	120
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	4
<b>ELECTRICAL FEEDER SYSTEM, PDISE M100</b>	WP 0093 00, COEI, Item 43	3
STRAP, CABLE CARRYING	TM 9-6150-226-13	16
CABLE, PIGTAIL, 100A, 4 FT LONG	TM 9-6150-226-13	2
CABLE ASSEMBLY, SERVICE, 100A, 50 FT LONG	TM 9-6150-226-13	4
ELECTRICAL FEEDER CENTER, 100A	TM 9-6150-226-13	3
TECHNICAL MANUAL, DISE TM 9-6150-226-13	WP 0093 00, BII Item 7	3
<b>LIGHT SET, FLUORESCENT</b>	WP 0093 00, COEI, Item 39	4
STRAP, WEBBING	TM 10-8340-224-13	16
LIGHT EXTENSION ASSEMBLY	TM 10-8340-224-13	16
CONTAINER ASSEMBLY, STORAGE	TM 10-8340-224-13	4
LAMP, FLUORESCENT	TM 10-8340-224-13	4
FUSE HOLDER, EXTRACTOR POST	TM 10-8340-224-13	4
<b>REMAINING DINING TENT KIT A ITEMS</b>		
STAND, DISTRIBUTION BOX, TEMPER	TM 10-8340-224-13	1
TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V	TM 10-8340-224-13	2
CABLE ASSEMBLY OUTLET TYPE III, 156 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY OUTLET TYPE III, 254 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY LIGHT TYPE III AND IV, 103 IN	TM 10-8340-224-13	2
CABLE ASSEMBLY LIGHT TYPE III AND IV, 173 IN	TM 10-8340-224-13	2
PIN, TENT, STEEL, 18 IN	TM 10-8340-224-13	120
FLOOR MAT, ALTERED ITEM	WP 0093 00, COEI, Item 35	2
POWER DISTRIBUTION BOX, KITCHEN	WP 0093 00, COEI, Item 36	1
TEMPER CONVENIENCE OUTLET ASSEMBLY, 3 DROP	TM 10-8340-224-13	4
SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG	WP 0093 00, COEI, Item 37	1
FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND	WP 0093 00, COEI, Item 38	2
TRUNK, LOCKER	WP 0093 00, COEI, Item 30	6
MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD	WP 0093 00, COEI, Item 40	1
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG	WP 0093 00, COEI, Item 41	6
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-13	WP 0093 00, BII, Item 6	1
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0093 00, BII, Item 9	1

Table 6. Inventory List for Dining Tent Kit B TRICON Type 10G.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
<b>FRAME, WINDOW SECTION, TEMPER (W/COVER)</b>	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	2
PURLIN ASSEMBLY	TM 10-8340-224-13	10
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	2
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	2
<b>FRAME, DOOR SECTION, TEMPER (W/COVER)</b>	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	2
PURLIN ASSEMBLY	TM 10-8340-224-13	6
PURLIN ASSEMBLY, DOOR SILL	TM 10-8340-224-13	4
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	2
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	2
<b>DOOR SECTION, TEMPERATE, TEMPER</b>	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	16
LINE, TENT	TM 10-8340-224-13	16
<b>WINDOW SECTION, TEMPERATE, TEMPER</b>	TM 10-8340-224-13	3
SLIP, TENT LINE	TM 10-8340-224-13	12
LINE, TENT	TM 10-8340-224-13	12
<b>REMAINING TYPE XVIII TEMPER ITEMS</b>		
COVER, TENT, TEMPER	TM 10-8340-224-13	3
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	6
FLOOR, 8 FT, SINGLE PLY, TEMPER	TM 10-8340-224-13	6
PLENUM, END WALL, 16 FT, TEMPER	TM 10-8340-224-13	2
PLENUM, EXTENDABLE, 16 FT, TEMPER	TM 10-8340-224-13	3
PLENUM, ENTRANCE 16 FT, TEMPER	TM 10-8340-224-13	1
DOOR, DOUBLE BUMP-THROUGH, CL A, GREEN	TM 10-8340-224-13	3
DOOR, DOUBLE BUMP-THROUGH, CL A, GREEN	TM 10-8340-224-13	2
DOOR, DOUBLE BUMP-THROUGH, CL A, GREEN	TM 10-8340-224-13	4
PIN, TENT, STEEL, 12 IN	TM 10-8340-224-13	80
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	4
<b>URN, COFFEE, SINGLE, 6 GALLON</b>	WP 0093 00, COEI, Item 49	1
SPRAY ARM	WP 0093 00, COEI, Item 49	1
COVER, URN, 6 GALLON	WP 0093 00, COEI, Item 49	1
BREW BASKET, 6 GALLON	WP 0093 00, COEI, Item 49	1
<b>LIGHT SET, FLUORESCENT</b>	TM 10-8340-224-13	2
STRAP, WEBBING	TM 10-8340-224-13	4
LIGHT EXTENSION ASSEMBLY	TM 10-8340-224-13	4
CONTAINER ASSEMBLY, STORAGE	TM 10-8340-224-13	2
LAMP, FLUORESCENT	TM 10-8340-224-13	2
FUSE HOLDER, EXTRACTOR POST	TM 10-8340-224-13	2
<b>REMAINING TRICON 10G ITEMS</b>		
PIN, TENT, WOOD, 24 IN	WP 0093 00, COEI, Item 47	50
PIN, TENT, STEEL, 18 IN	WP 0093 00, COEI, Item 34	80
STAND, DISTRIBUTION BOX, TEMPER	WP 0093 00, COEI, Item 31	1
STRAP, CABLE CARRYING	WP 0093 00, COEI, Item 45	8



**Table 6. Inventory List for Dining Tent Kit B TRICON Type 10G - Continued.**

Subcomponent	Where Listed/Illustrated	Qty
CABLE, PIGTAIL, 100A, 4 FT LONG	WP 0093 00, COEI, Item 46	1
CABLE ASSEMBLY, SERVICE, 100A, 50 FT LONG	WP 0093 00, COEI, Item 44	2
BENCH, 6 FT	WP 0093 00, COEI, Item 47	11
FLOOR MAT, ALTERED ITEM	WP 0093 00, COEI, Item 35	4
SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG	WP 0093 00, COEI, Item 37	1
TRUNK, LOCKER	WP 0093 00, COEI, Item 30	4
MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD	WP 0093 00, COEI, Item 40	1
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG	WP 0093 00, COEI, Item 41	8
TECHNICAL MANUAL, FOOD SERVICE EQUIPMENT, FP, TM 10-7310-282-10	WP 0093 00, BII, Item12	1

**Table 7. Inventory List for Refrigeration Kit Part B TRICON Type 10I.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	5
WALL PANEL	TM 9-4110-241-13	2
WALK IN DOOR PANEL	TM 9-4110-241-13	2
REFRIGERATION UNIT, MECHANICAL, PANEL TYPE, 10,000 BTUH, EMD, TYPE II	TM 9-4110-256-14, or WP 0093 00, COEI, Item 51	2
CABLE ASSEMBLY, 60 AMP, CLASS L, EQUIPMENT INSTALLATION	WP 0093 00, COEI, Item 52	2
TECHNICAL MANUAL, REFRIGERATION UNIT TM 9-4110-256-14	WP 0093 00, BII, Item 8	1
TECHNICAL MANUAL, REFRIGERATION UNIT TM 9-4110-256-24P	WP 0093 00, BII, Item 14	1

**Table 8. Inventory List for Wastewater System Kit TRICON Type 10J.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	5
<b>SEWAGE EJECTION PUMP, WASTE WATER EVACUATION</b>	TM 10-4630-206-12&P, or WP 0093 00, COEI, Item 55	1
COUPLING, CAM/GROOVED HOSE, FEMALE ADAPTER, 2 IN NPT MALE	TM 10-4630-206-12&P	3
COUPLING, CAM/GROOVED HOSE, FEMALE ADAPTER, 3 IN NPT MALE	TM 10-4630-206-12&P	2
DUST CAP, 2 IN	TM 10-4630-206-12&P	3
DUST CAP, 3 IN	TM 10-4630-206-12&P	2
TECHNICAL MANUAL, SEWAGE EJECTION PUMP TM 10-4630-206-12&P	WP 0093 00, BII, Item 11	1
<b>TRAP ASSEMBLY, GREASE</b>	WP 0093 00, COEI, Item 57	2
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, 1-1/4 IN, BRASS	WP 0093 00, COEI, Item 60	2

**Table 8. Inventory List for Wastewater System Kit TRICON Type 10J - Continued.**

Subcomponent	Where Listed/Illustrated	Qty
<b>REMAINING WASTE WATER KIT ITEMS</b>		
COUPLING HALF, Q-DISC, CAM LOCK, PLUG, TYPE X, 2 IN, BRASS	WP 0093 00, COEI, Item 58	2
WALL PANEL	TM 9-4110-241-13	4
DOOR, DOUBLE BUMP-THROUGH, CL A, GREEN	WP 0093 00, COEI, Item 50	1
POWER CABLE ASSEMBLY, TEE, 20A	WP 0093 00, COEI, Item 53	1
POWER CABLE, CLASS L TO COMMERCIAL, 20 AMP	WP 0093 00, COEI, Item 17	1
FAN ASSEMBLY, KITCHEN, 30 INCH, ALTERED ITEM	WP 0093 00, COEI, Item 54	2
BENCH, 6 FT	WP 0093 00, COEI, Item 18	4
TABLE, FOLDING, 6 FT, ALUMINUM	WP 0093 00, COEI, Item 19	5
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, 2 IN, AL	WP 0093 00, COEI, Item 56	2
REDUCER, QDISC, CAM LOCK, 2 IN FC X 1-1/2 IN MC, AL	WP 0093 00, COEI, Item 59	1
DRUM, SHIPPING AND STORAGE, STEEL, 55-GAL	WP 0093 00, COEI, Item 22	1

**Table 9. Inventory List for Food Sanitation/Preparation Tent Kit TRICON Type 10K.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	6
<b>TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V</b>	WP 0093 00, COEI, ITEM 33	2
CABLE ASSEMBLY OUTLET TYPE III, 156 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY OUTLET TYPE III, 254 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY LIGHT TYPE III AND IV, 103 IN	TM 10-8340-224-13	2
CABLE ASSEMBLY LIGHT TYPE III AND IV, 173 IN	TM 10-8340-224-13	2
STAND, DISTRIBUTION BOX, TEMPER	TM 10-8340-224-13	2
<b>LIGHT SET, FLUORESCENT</b>	WP 0093 00, COEI, ITEM 39	4
STRAP, WEBBING	TM 10-8340-224-13	8
LIGHT EXTENSION ASSEMBLY	TM 10-8340-224-13	8
CONTAINER ASSEMBLY, STORAGE	TM 10-8340-224-13	4
LAMP, FLUORESCENT	TM 10-8340-224-13	4
FUSE HOLDER, EXTRACTOR POST	TM 10-8340-224-13	4
<b>TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE XIX, 32 FT, GREEN</b>	TM 10-8340-224-13	2
PIN, TENT, WOOD, 24 IN	TM 10-8340-224-13	60
FRAME, END SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	4
PURLIN ASSEMBLY	TM 10-8340-224-13	10
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	8
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	4
FRAME, WINDOW SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	4
HEADER ASSEMBLY	TM 10-8340-224-13	4
PURLIN ASSEMBLY	TM 10-8340-224-13	20
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	8
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	4
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	4

**Table 9. Inventory List for Food Sanitation/Preparation Tent Kit TRICON Type 10K - Continued.**

<b>Subcomponent</b>	<b>Where Listed/Illustrated</b>	<b>Qty</b>
FRAME, DOOR SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	2
PURLIN ASSEMBLY	TM 10-8340-224-13	6
PURLIN ASSEMBLY, DOOR SILL	TM 10-8340-224-13	4
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	2
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	4
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	2
FRAME ASSEMBLY, VESTIBULE, TEMPER	TM 10-8340-224-13	12
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	48
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	12
LINE, TENT	TM 10-8340-224-13	8
END SECTION, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	8
DOOR SECTION, DESERT/TROPICAL, TEMPER	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	16
LINE, TENT	TM 10-8340-224-13	16
FLY, TENT, 16 FT, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	24
LINE, TENT	TM 10-8340-224-13	24
COVER, TENT, TEMPER	TM 10-8340-224-13	8
WINDOW SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	6
SLIP, TENT LINE	TM 10-8340-224-13	24
LINE, TENT	TM 10-8340-224-13	24
LINER, END SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	2
LINER, END SECTION, D/T, TEMPER	TM 10-8340-224-13	2
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	4
FLOOR, 8 FT, SINGLE PLY, TEMPER	TM 10-8340-224-13	8
VESTIBULE WITH DOOR, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	16
VESTIBULE TENT SECTION	TM 10-8340-224-13	4
LINE, TENT	TM 10-8340-224-13	16
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	4
FLOOR, VESTIBULE, SINGLE PLY, TEMPER	TM 10-8340-224-13	4
CONTAINER, VESTIBULE, TEMPER	TM 10-8340-224-13	4
PLENUM, END WALL, 16 FT, TEMPER	TM 10-8340-224-13	2
PLENUM, EXTENDABLE, 16 FT, TEMPER	TM 10-8340-224-13	2
PIN, TENT, STEEL, 12 IN	TM 10-8340-224-13	100
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	8
<b>ELECTRICAL FEEDER SYSTEM, PDISE M100</b>	WP 0093 00, COEI, ITEM 43	1
STRAP, CABLE CARRYING	TM 9-6150-226-13	8
CABLE, PIGTAIL, 100A, 4 FT LONG	TM 9-6150-226-13	1
CABLE ASSEMBLY, SERVICE, 100A, 50 FT LONG	TM 9-6150-226-13	2
ELECTRICAL FEEDER CENTER, 100A	TM 9-6150-226-13	1
TECHNICAL MANUAL, DISE TM 9-6150-226-13	WP 0093 00, BII, ITEM 7	1
<b>REMAINING FOOD SANITATION TENT KIT ITEMS</b>		
PIN, TENT, STEEL, 18 IN	WP 0093 00, COEI, ITEM 34	120
BENCH, 6 FT	WP 0093 00, COEI, ITEM 18	11
FLOOR MAT, ALTERED ITEM	WP 0093 00, COEI, ITEM 35	2
POWER DISTRIBUTION BOX, KITCHEN	WP 0093 00, COEI, ITEM 36	2
TEMPER CONVENIENCE OUTLET ASSEMBLY, 3 DROP	WP 0093 00, COEI, ITEM 32	2
SLEDGE HAMMER, 12 POUND, FIBERGLASS	WP 0093 00, COEI, ITEM 37	1

**Table 9. Inventory List for Food Sanitation/Preparation Tent Kit TRICON Type 10K - Continued.**

Subcomponent	Where Listed/Illustrated	Qty
HANDLE, 34 IN LONG		
TRUNK, LOCKER	WP 0093 00, COEI, ITEM 30	3
MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD	WP 0093 00, COEI, ITEM 40	1
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG	WP 0093 00, COEI, ITEM 41	6
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-13	WP 0093 00, BII, ITEM 6	1
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0093 00, BII, ITEM 9	1

**Table 10. Inventory List for Kitchen Tent Kit TRICON Type 10L.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	5
STAND, DISTRIBUTION BOX, TEMPER	TM 10-8340-224-13	2
<b>TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V</b>	WP 0093 00, COEI, ITEM33	2
CABLE ASSEMBLY OUTLET TYPE III, 156 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY OUTLET TYPE III, 254 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY LIGHT TYPE III AND IV, 103 IN	TM 10-8340-224-13	2
CABLE ASSEMBLY LIGHT TYPE III AND IV, 173 IN	TM 10-8340-224-13	2
<b>LIGHT SET, FLUORESCENT</b>	WP 0093 00, COEI, ITEM 39	4
STRAP, WEBBING	TM 10-8340-224-13	8
LIGHT EXTENSION ASSEMBLY	TM 10-8340-224-13	8
CONTAINER ASSEMBLY, STORAGE	TM 10-8340-224-13	4
LAMP, FLUORESCENT	TM 10-8340-224-13	4
FUSE HOLDER, EXTRACTOR POST	TM 10-8340-224-13	4
<b>TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE XV, 48 FT, GREEN</b>	WP 0093 00, COEI, ITEM 60	1
PIN, TENT, WOOD, 24 IN	TM 10-8340-224-13	42
FRAME, END SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	1
HEADER ASSEMBLY	TM 10-8340-224-13	2
PURLIN ASSEMBLY	TM 10-8340-224-13	5
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	2
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	1
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	2
FRAME, WINDOW SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	2
PURLIN ASSEMBLY	TM 10-8340-224-13	10
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	2
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	2
FRAME, DOOR SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	3
HEADER ASSEMBLY	TM 10-8340-224-13	3
PURLIN ASSEMBLY	TM 10-8340-224-13	9
PURLIN ASSEMBLY, DOOR SILL	TM 10-8340-224-13	6
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	3
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	6
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	3

Table 10. Inventory List for Kitchen Tent Kit TRICON Type 10L - Continued.

Subcomponent	Where Listed/Illustrated	Qty
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	3
FRAME ASSEMBLY, VESTIBULE, TEMPER	TM 10-8340-224-13	20
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	40
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	20
END SECTION, TEMPER	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	4
LINE, TENT	TM 10-8340-224-13	4
DOOR SECTION, DESERT/TROPICAL, TEMPER	TM 10-8340-224-13	3
SLIP, TENT LINE	TM 10-8340-224-13	24
LINE, TENT	TM 10-8340-224-13	24
FLY, TENT, 16 FT, TEMPER	TM 10-8340-224-13	3
SLIP, TENT LINE	TM 10-8340-224-13	18
LINE, TENT	TM 10-8340-224-13	18
COVER, TENT, TEMPER	WP 0093 00, COEI, ITEM 59	3
WINDOW SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	3
SLIP, TENT LINE	TM 10-8340-224-13	12
LINE, TENT	TM 10-8340-224-13	12
LINER, END SECTION, DESERT/TROPICAL	TM 10-8340-224-13	2
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	3
LINER, INTERMEDIATE, DESERT/TROPICAL	TM 10-8340-224-13	1
VESTIBULE WITH DOOR, TEMPER	TM 10-8340-224-13	6
SLIP, TENT LINE	TM 10-8340-224-13	24
VESTIBULE TENT SECTION	TM 10-8340-224-13	6
LINE, TENT	TM 10-8340-224-13	24
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	6
CONTAINER, VESTIBULE, TEMPER	TM 10-8340-224-13	6
PIN, TENT, STEEL, 12 IN	TM 10-8340-224-13	82
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	4
<b>ELECTRICAL FEEDER SYSTEM, PDISE M100</b>	WP 0093 00, COEI, ITEM 43	1
STRAP, CABLE CARRYING	TM 9-6150-226-13	8
CABLE, PIGTAIL, 100A, 4 FT LONG	TM 9-6150-226-13	1
CABLE ASSEMBLY, SERVICE, 100A, 50 FT LONG	TM 9-6150-226-13	2
ELECTRICAL FEEDER CENTER, 100A	TM 9-6150-226-13	1
TECHNICAL MANUAL, DISE TM 9-6150-226-13	WP 0093 00, BII, ITEM 7	1
<b>REMAINING KITCHEN TENT KIT ITEMS</b>		
MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD	WP 0093 00, COEI, ITEM 40	1
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LG	WP 0093 00, COEI, ITEM 41	4
PIN, TENT, STEEL, 18 IN	WP 0093 00, COEI, ITEM 34	82
COVER, TENT, TEMPER	WP 0093 00, COEI, ITEM 59	3
PLENUM, END WALL, 16 FT, TEMPER	WP 0093 00, COEI, ITEM 61	1
PLENUM, EXTENDABLE, 16 FT, TEMPER	WP 0093 00, COEI, ITEM 62	2
FLOOR MAT, ALTERED ITEM	WP 0093 00, COEI, ITEM 35	2
TEMPER CONVENIENCE OUTLET ASSY, 3 DROP	WP 0093 00, COEI, ITEM 32	4
SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG	WP 0093 00, COEI, ITEM 37	1
TRUNK, LOCKER	WP 0093 00, COEI, ITEM 30	12
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-13	WP 0093 00, BII, ITEM 6	1
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0093 00, BII, ITEM 9	1

Refer to TM 10-7310-282-10 for inventory listing of Kitchen Kit, Part C, D, and E, contained in TRICON type 10M, 10N, and 10P, respectively.

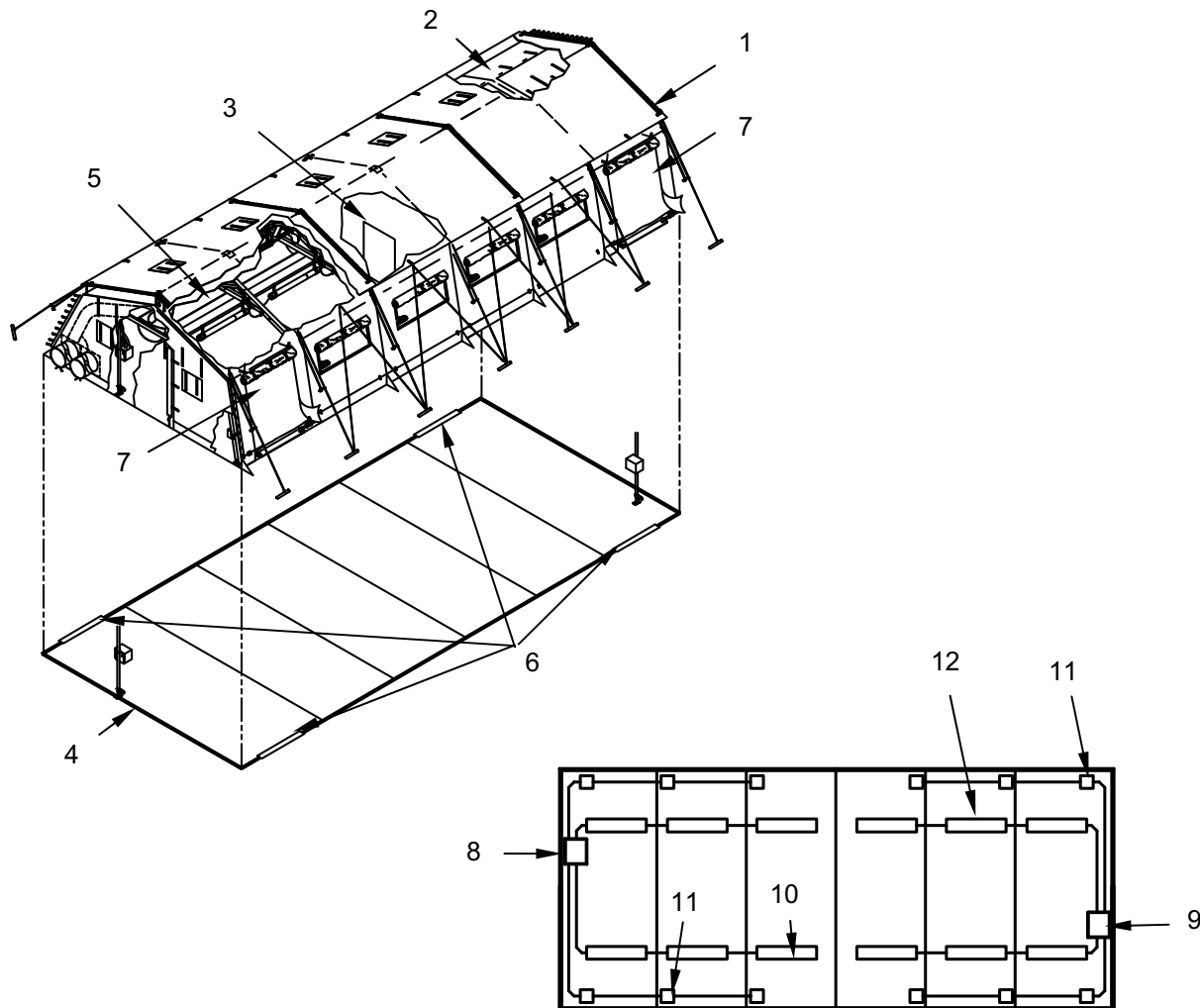
**ASSEMBLY AND PREPARATION FOR USE OF FOOD SERVICE TEMPER**

The food service subsystem tentage layout consists of one type XV, 20-foot x 48-foot kitchen TEMPER, one type XIX, 20-foot x 32-foot food preparation TEMPER, one type XIX 20-foot x 32-foot sanitation center TEMPER, and one type XVIII, 20-foot x 96-foot dining facility TEMPER.

The TEMPER must be positioned as designated by staking to ensure proper fit of the vestibules that connect them together (refer to WP 0021 00). Sledge hammers and mallets for driving tent stakes are provided in each tent container.

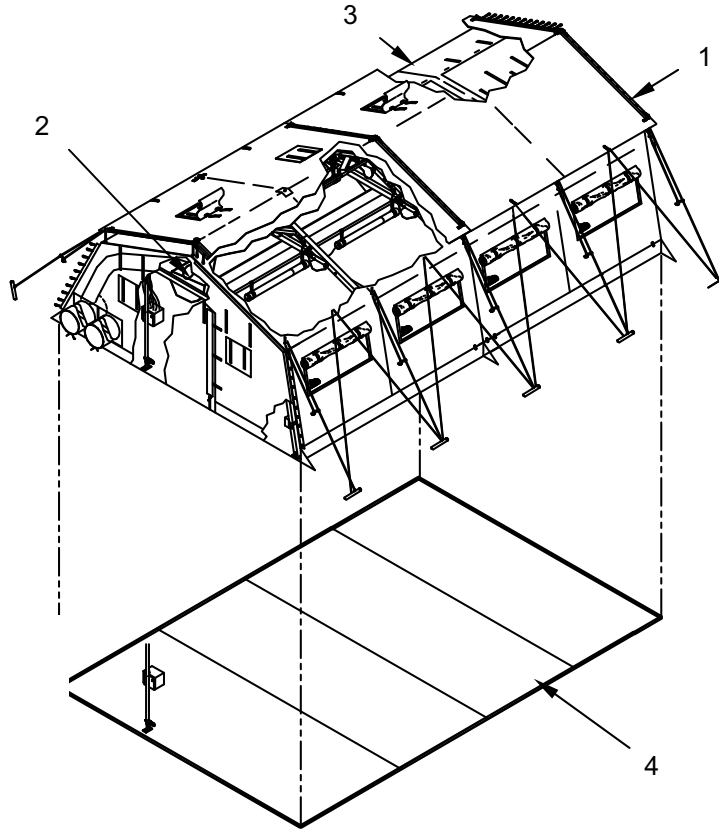
To erect the kitchen TEMPER, use TM 10-8340-224-13 procedures and container type 10L components. The TEMPER should be erected over a hardstand (concrete) floor. (Refer to NOTE in the SCOPE section of WP 0031 00.)

1. Erect the 20-foot x 48-foot kitchen TEMPER (1) with liners (2), partition (3), floors (if applicable) (4) and plenums (5). Ensure eight doorsill purlins (6) are installed in the four door sections (7).
2. Install two power control boxes, (8) and (9), fluorescent lights (10), and convenience outlets (11).
3. Connect six lights (10) and six outlets (11) to each power control (8) and (9).

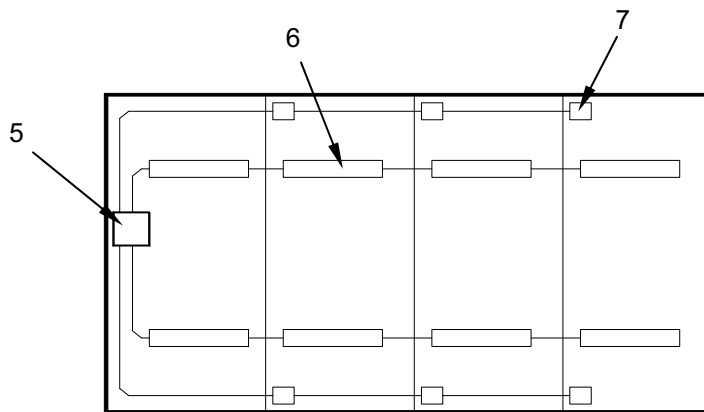


To erect the food preparation TEMPER, use TM 10-8340-224-13 procedures and container type 10K components. The TEMPER should be erected over a hardstand (concrete) floor. (Refer to NOTE in the SCOPE section of WP 0031 00.)

1. Erect the type XIX, 20-foot x 32-foot food preparation TEMPER (1) with end wall plenum (2), liners (3), and floor (if applicable) (4). Ensure only window sections are installed.

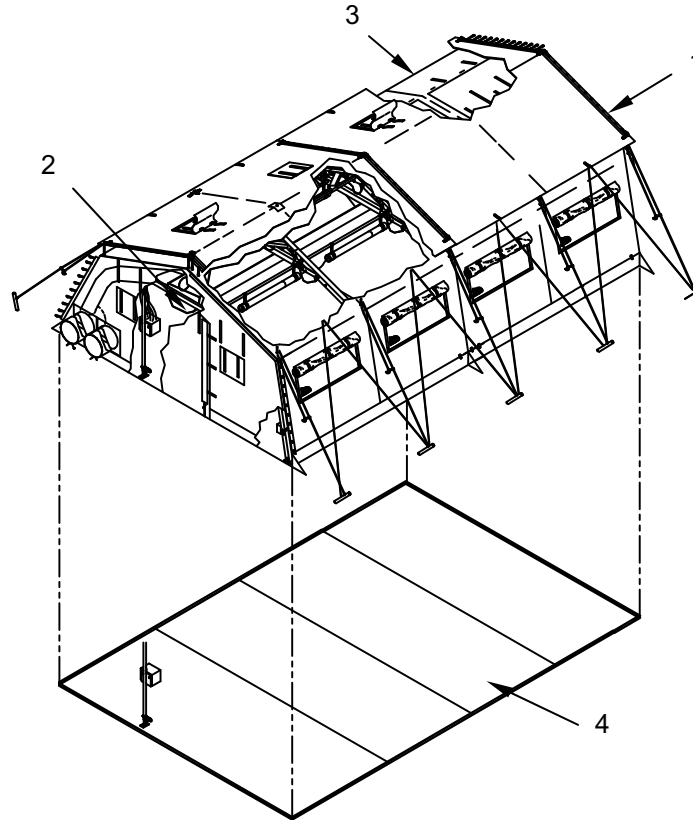


2. Install power distribution box (5), eight fluorescent lights (6), and six convenience outlets (7). Connect outlets to power control box (5).

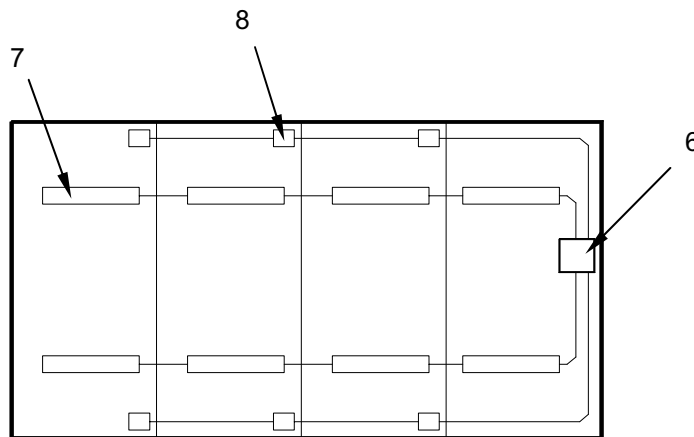


To erect the food sanitation TEMPER, use TM 10-8340-224-13 procedures and container type 10K components. The TEMPER should be erected over a hardstand (concrete) floor. (Refer to NOTE in the SCOPE section of WP 0031 00.)

1. Erect the type XIX, 20-foot x 32-foot food preparation TEMPER (1) with end wall plenum (2), liners (3), and floor (if applicable) (4). Ensure only window sections are installed.



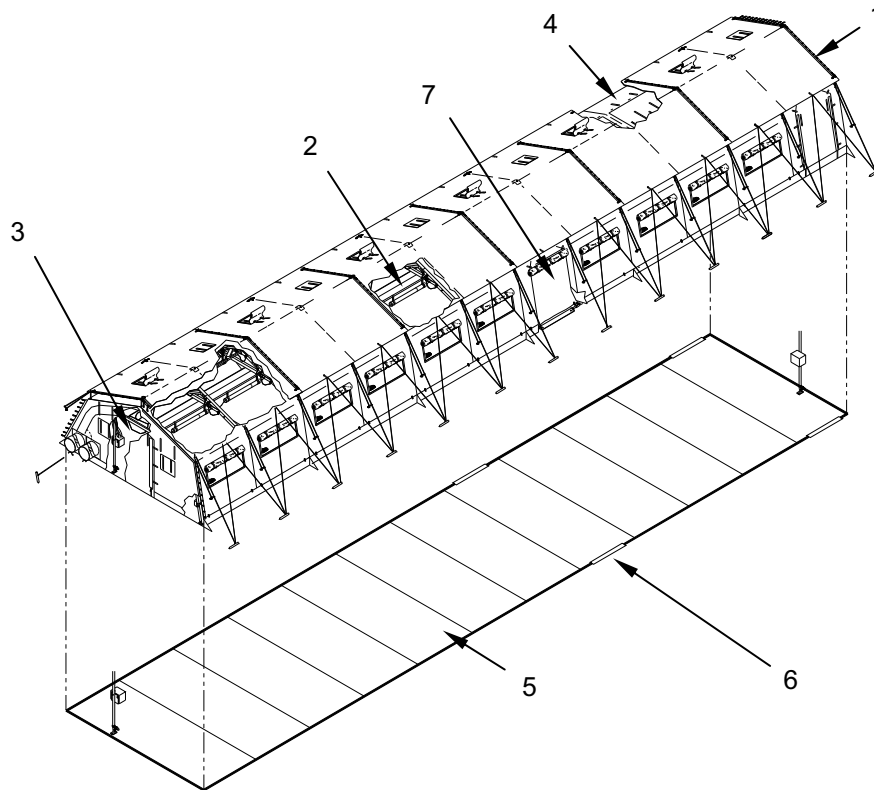
2. Install power control (6); install eight fluorescent lights (7), and six convenience outlets (8) and connect to power control (6).



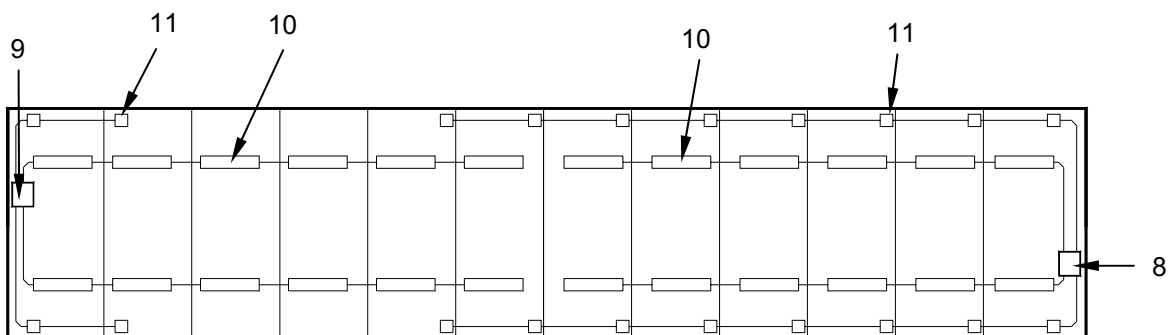


To erect the dining TEMPER, use TM 10-8340-224-13 procedures and container type 10F/G components. The TEMPER should be erected over a hardstand (concrete) floor. (Refer to NOTE in the SCOPE section of WP 0031 00.)

1. Erect the type XVIII, 20-foot x 96-foot dining TEMPER (1) with one sidewall plenum (2), two end wall plenums (3), three extendable plenums (not shown), liners (4), and floor (if applicable) (5). Ensure two doorsill purlins (6) are installed at the door section (7).

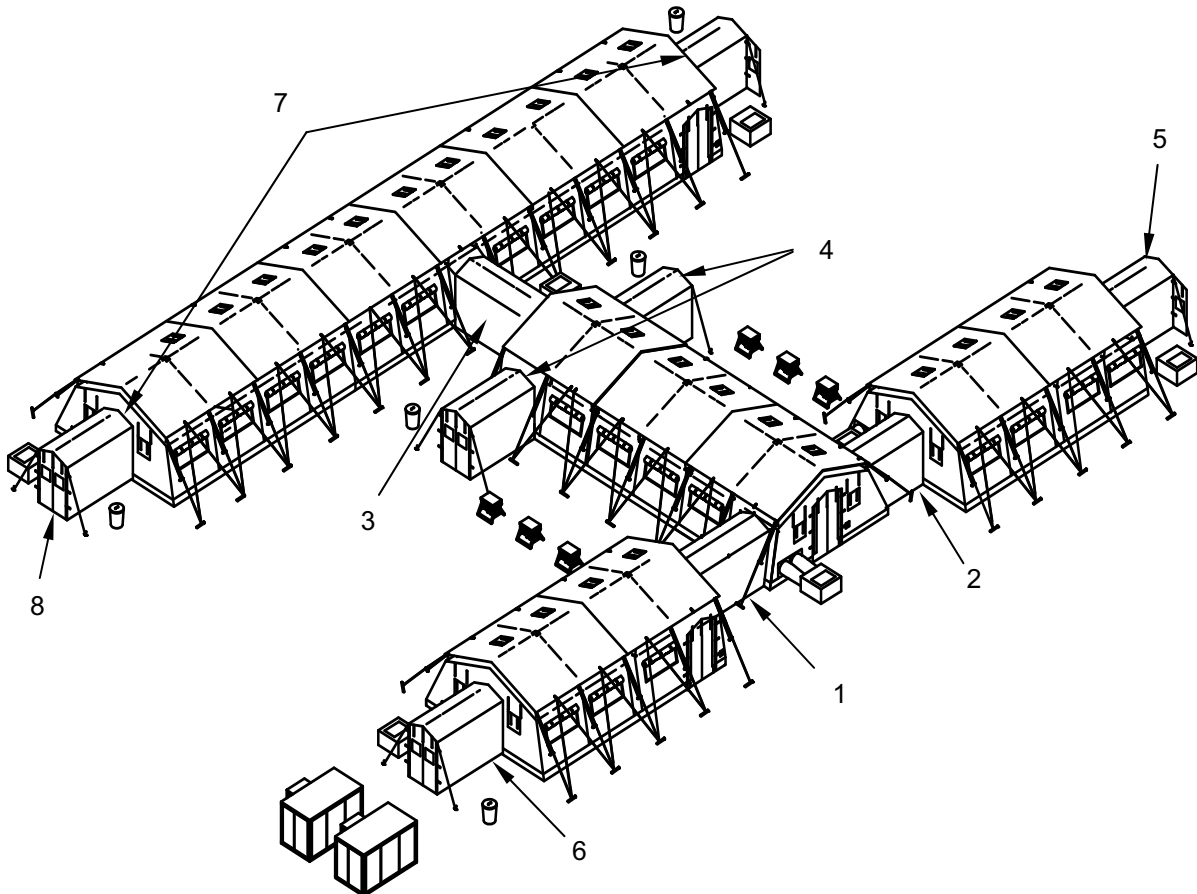


2. Install kitchen equipment power distribution box (shipped in TRICON 10F), (8) at the end of TEMPER nearest kitchen facility and standard TEMPER power control box (9) at the opposite end.
3. Install twelve fluorescent lights (10), sixteen convenience outlets (11) and connect to power control (8).
4. Install twelve fluorescent lights, (10) four convenience outlets (11) and connect to power control (9).



To install the vestibules and double bump-through doors, use TM 10-8340-224-13 procedures and container type 10F/G/K and L components. Install vestibules in the following locations:

1. Between food preparation TEMPER (1) and kitchen TEMPER.
2. Between sanitation TEMPER (2) and kitchen TEMPER.
3. Between dining TEMPER (3) and kitchen TEMPER.
4. On end section of kitchen TEMPER (4).
5. On end wall of sanitation TEMPER (5).
6. On end wall of food preparation TEMPER (6).
7. On end walls of dining TEMPER (7).
8. Install double bump-through doors (8) as necessary.

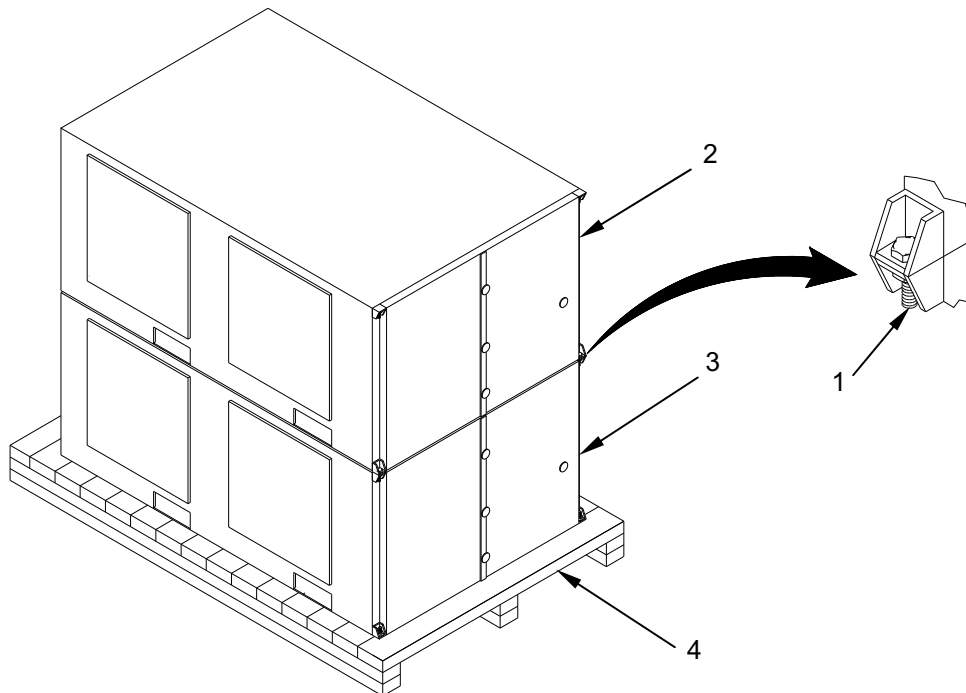


**ASSEMBLY AND PREPARATION OF ECU****NOTE**

The following instructions for the assembly and preparation for use of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-6408) is at hand, assemble, install, operate, and maintain it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are at hand, assemble, install, operate, and maintain them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions furnished herein.

Installation and use of ECU is optional, or may be deferred. Use the following procedures when installing ECU.

1. Remove ECU pallet from TRICON 1B. Remove preservation materials.
2. Remove four nuts, bolts, and washers (1) that secure ECU (2) and (3) together.
3. Use forklift to lift top ECU (2) off lower ECU (3).
4. Install nuts, bolts, and washers (1) back onto lower ECU (3) for future use.
5. Leave pallet (4) attached to lower ECU (3).



Set up ECU as follows:

### NOTE

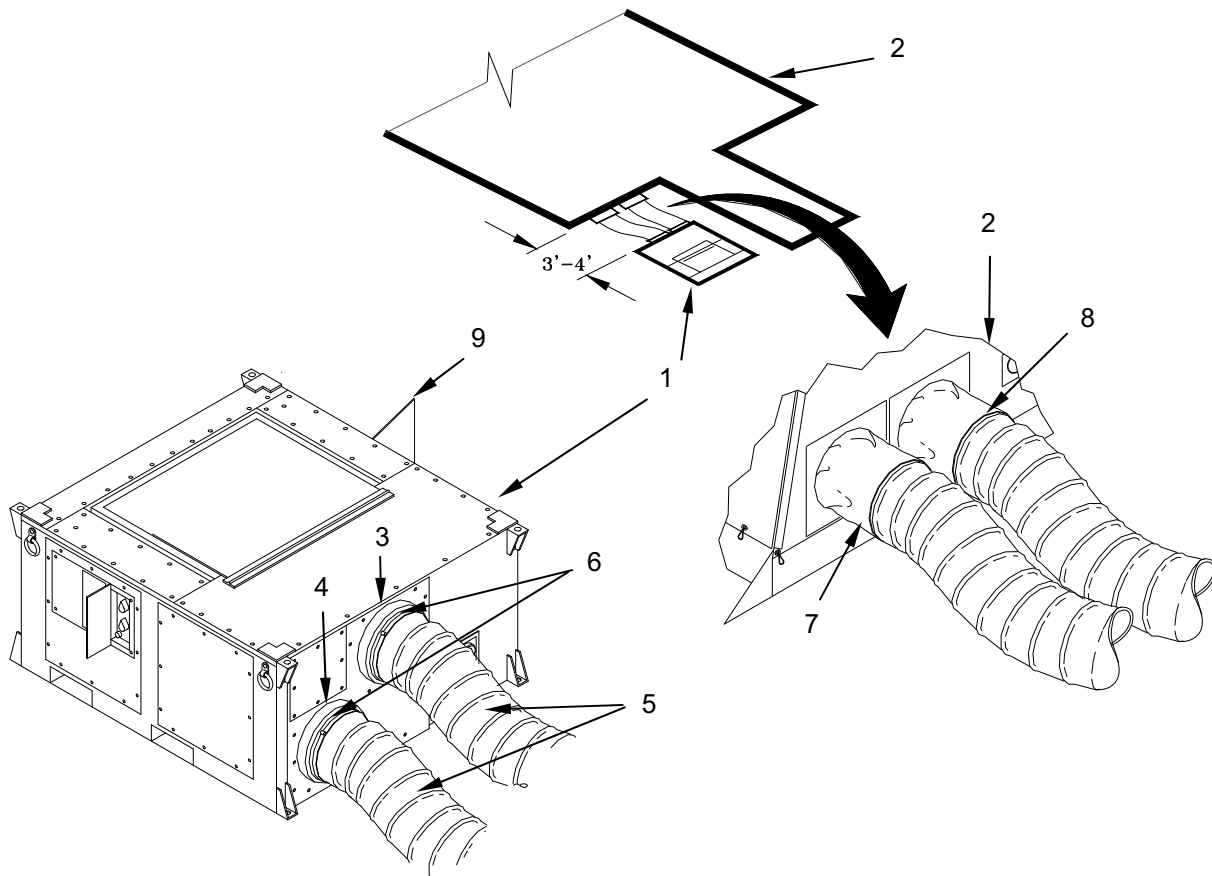
Leaving pallet attached to ECU or using lumber or dunnage between ECU and ground will help to prevent corrosion during long deployments.

1. Obtain lumber or dunnage (several 2-inch x 4-inch pieces are sufficient) on which to set ECU if no pallet is attached.
2. Position each ECU on dunnage or pallet at prepared site (1), three to four-feet from end wall of TEMPER (2), with supply (3) and return (4) duct ports facing TEMPER (2).
3. Remove ducts (5) from ECU by opening hinged panel on rear storage compartment (9). Retrieve ducts and racks. Remove ducts from racks and store racks in condenser compartment.

### NOTE

Observe that airflow directional arrow on ducts are facing in correct direction.

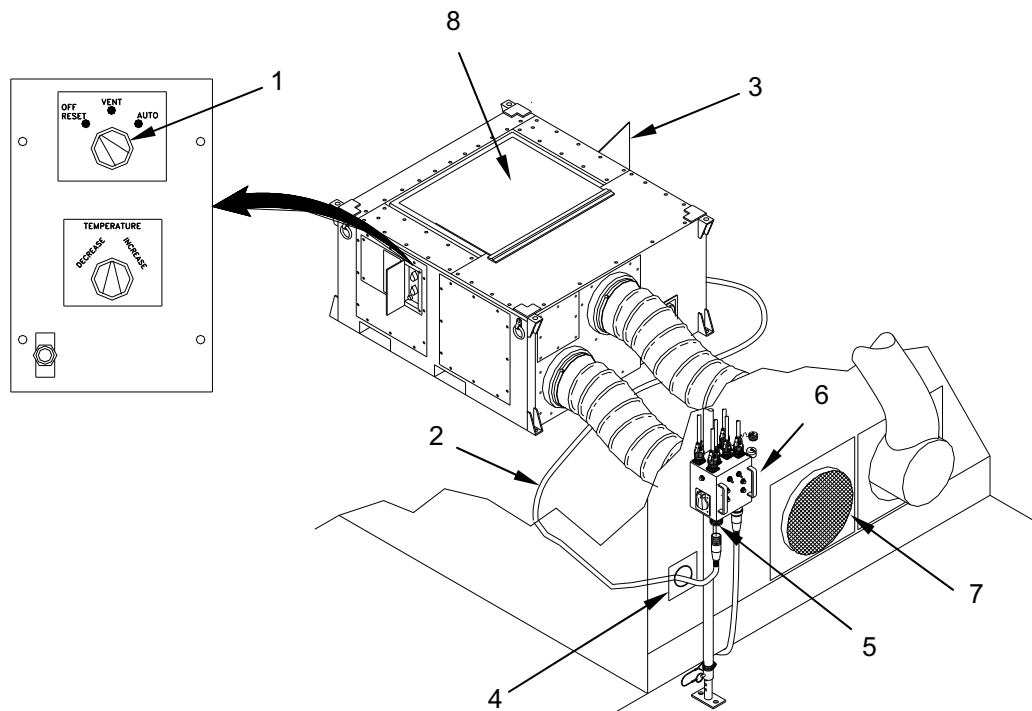
4. Place the 9-foot duct in the correct direction onto the supply (3) and the 7-foot duct to the return (4) flanges on the ECU. Tighten hose clamps (6) on flanges.
5. Attach ECU supply duct (3) to the TEMPER duct (7) that has plenum attached.
6. Attach ECU return duct (4) to the TEMPER duct (8) that does not have plenum attached.
7. Install the condenser drain hose.



**NOTE**

Ensure mode selector switch (1) is set to OFF-RESET position.

8. Remove ECU power cable (2) from condenser compartment door storage box (3).
9. Route ECU power cable (2) through TEMPER cable sock (4) or between end section and floor, and connect to POWER OUT (J2) receptacle (5) on TEMPER power distribution box (6). Connect dust caps together.
10. Install debris screen (7) on return duct.
11. Release and flip the condenser fan cover (8).
12. Ensure all doors are closed and secured.



**ASSEMBLY AND PREPARATION FOR USE OF 600-CUBIC FOOT REFRIGERATORS**

Use TM 9-4110-241-13 and TM 5-4110-242-14 procedures and refrigerator components shipped in ISO container type 10A, as well as TRICON 10I and 10J to assemble the refrigerator. A hardstand floor should be in place prior to positioning the refrigerators.

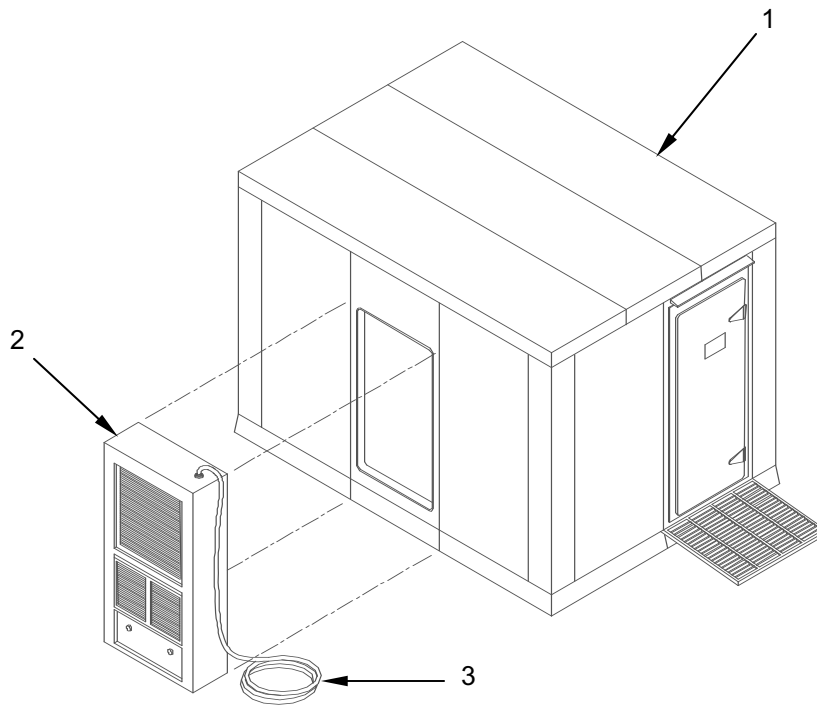
**Table 11. 600-Cubic Foot Refrigerator Components.**

Component	Shipped in TRICON
Wall Panel	10 each in 10A, 2 each in 10I, 4 each in 10J
Walk in Door Panels	2 each in 10I
10000 BTUH Refrigeration Units	2 each in 10I

**NOTE**

When unpacking the 10,000 BTUH Refrigerators, lift off the top bag and preserve. Then lift the refrigerator units off the bottom bag. Preserve the bag for use in return shipping.

1. Assemble 600-cubic foot prefabricated refrigerators (1) as described in TM 9-4110-241-13 on sites designated by staking.
2. Mount the 10,000 BTUH refrigeration unit (2) onto assembled refrigerator (1) as described in TM 5-4110-242-14.
3. Leave power cable (3) disconnected until power generation personnel indicate that power is available at the PDISE.



**ASSEMBLY AND PREPARATION FOR USE OF FOOD SERVICE EQUIPMENT****NOTE**

The equipment and implements used in the kitchen tent are shipped in TRICON 10B, 10H, 10M and 10N. Use TM 10-7310-282-10 to unpack and inventory this equipment.

The layout of kitchen equipment shown below is the recommended setup, however, the layout may be altered to suit desired conditions, provided electrical cables and potable and graywater hoses are of sufficient length to reach equipment.

**WARNING**

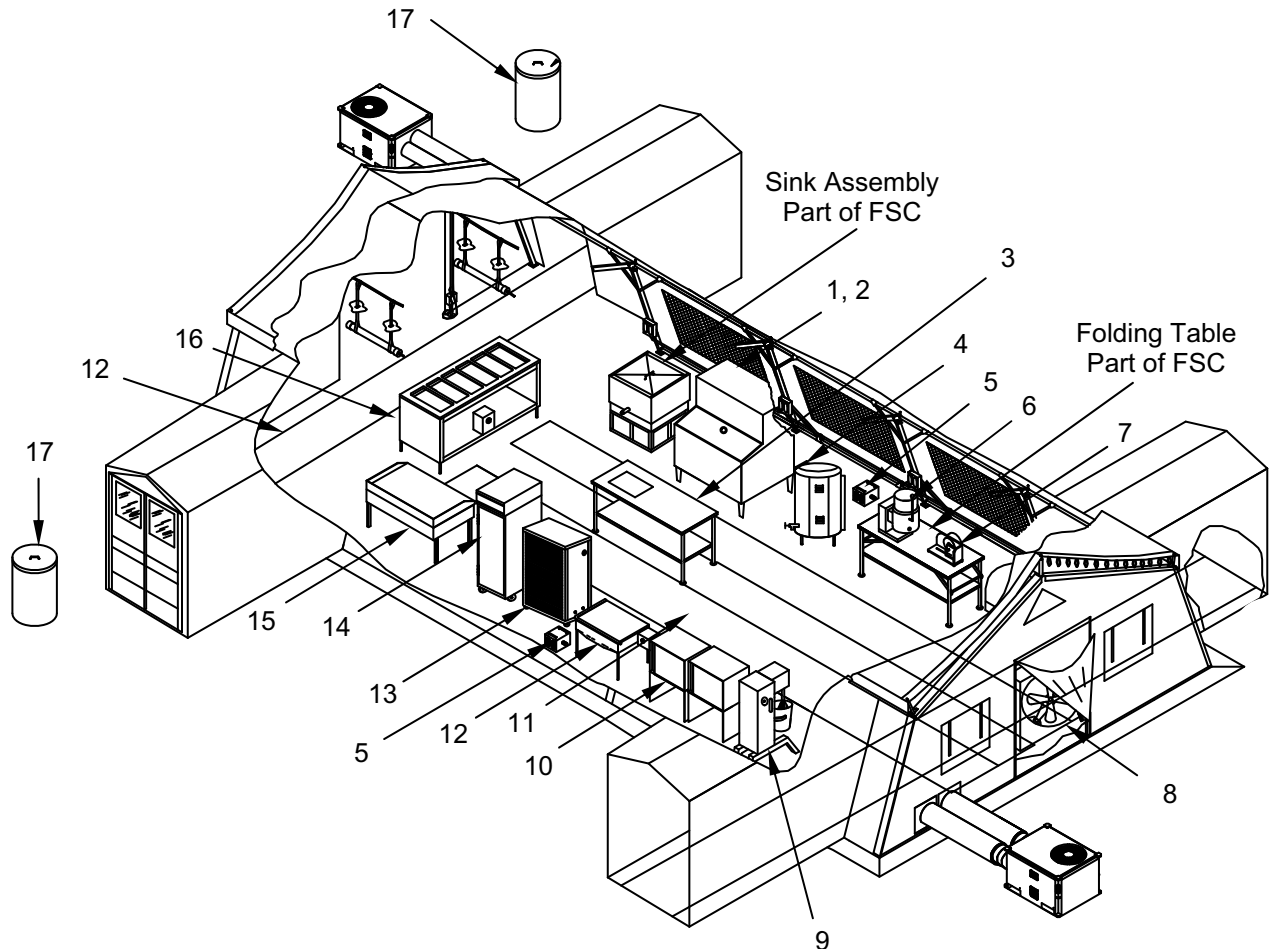
Appliances are heavy. If no mechanical or other lifting capability is available, four persons are required to move the kitchen appliances. Lifting should be accomplished with legs, not backs, to prevent injury.

Use contents of TRICON 10B/H/M/N and P to set up the kitchen (refer to TM 10-7310-282-10).

1. Locate, assemble and position the ice making machine (1) and ice storage bin (2) as shown.
2. Locate the folding table with shelf and food chopping board (3) and position as shown.
3. Locate the floor standing steam kettle (4) and position as shown.
4. Locate two kitchen power distribution boxes (5) and position as shown.
5. Locate and position two steam tables (5).
6. Locate and position the table top 6-Gallon steam kettle (6) and position as shown.
7. Locate and position the meat slicing machine (7) as shown.
8. Locate and position the 30-inch kitchen fan assembly (8) as shown.
9. Locate and position the electric food mixing machine (9) as shown.
10. Locate, assemble and position two baking and roasting ovens with containers (10) as shown.
11. Locate and position floor mats (11) as shown.
12. Locate the tilt fry pan (12) and position as shown.
13. Locate and position the food warming cabinet (13) as shown.
14. Locate and position the 20 cubic-foot mechanical refrigerator (14) as shown.
15. Locate and position the large griddle with stand (15) as shown.
16. Locate and position the electric steam table (16) as shown.
17. Locate and position the ash and garbage cans with lids (17) as needed.
18. Position all remaining equipment as desired.

**CAUTION**

Do not connect electrical equipment to a power source at this point. The connection should be made only after the food service subsystem has been connected to the FP power grid.

**Type XV TEMPER, Kitchen Tent.**

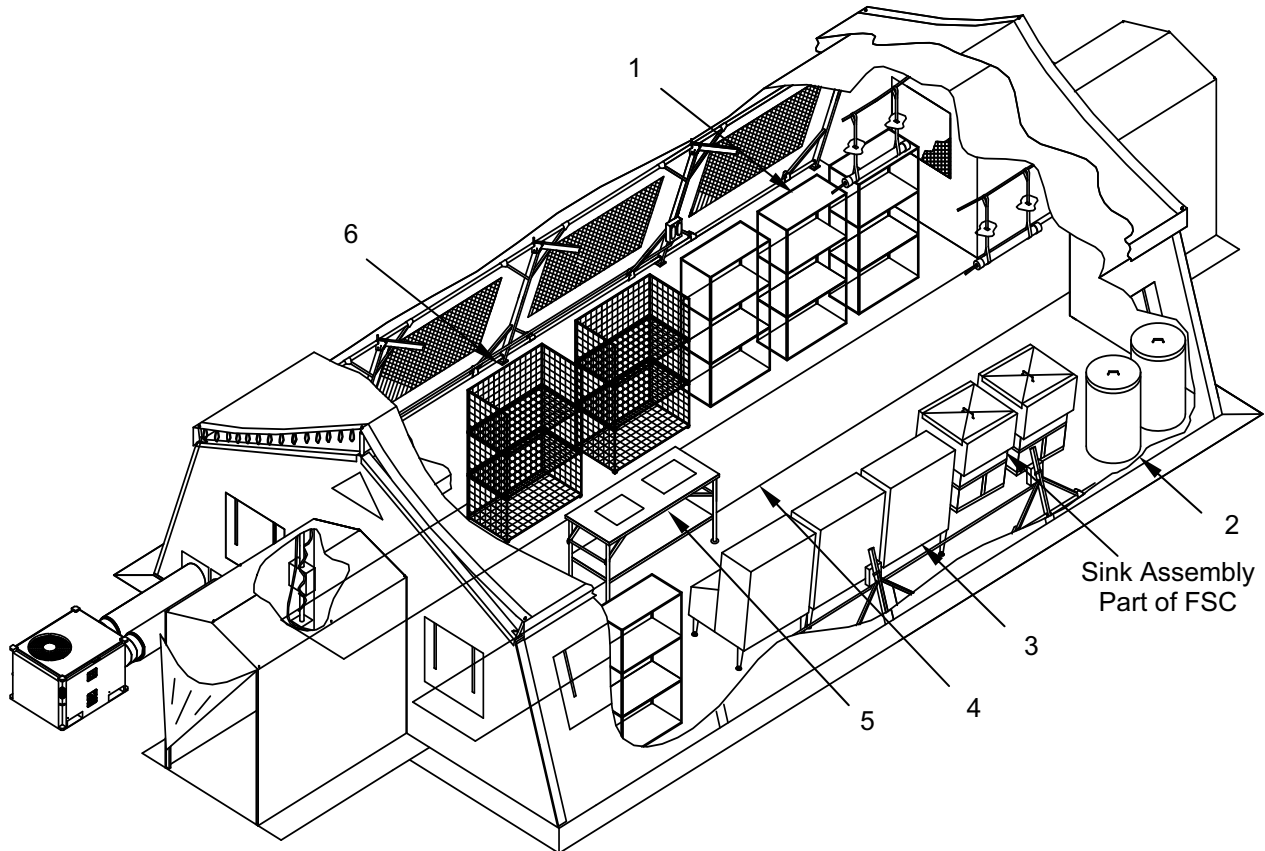
Use contents of container types 10K and M to set up the food preparation tent.

1. Locate and position six storage and display shelves (1) as shown.
2. Locate and position two ash and garbage cans with lids (2) as shown.
3. Locate and position three icemakers (3) with storage bins as shown.
4. Locate and position floor mats (4) as shown.
5. Locate and position folding table with shelf and food chopping boards (5) as shown.
6. Locate and position two storage racks (6); each rack containing three stacked pieces, as shown.
7. Locate and position any remaining equipment.



**CAUTION**

Do not connect electrical equipment to a power source at this point. The connection should be made only after the food service subsystem has been connected to the FP power grid.

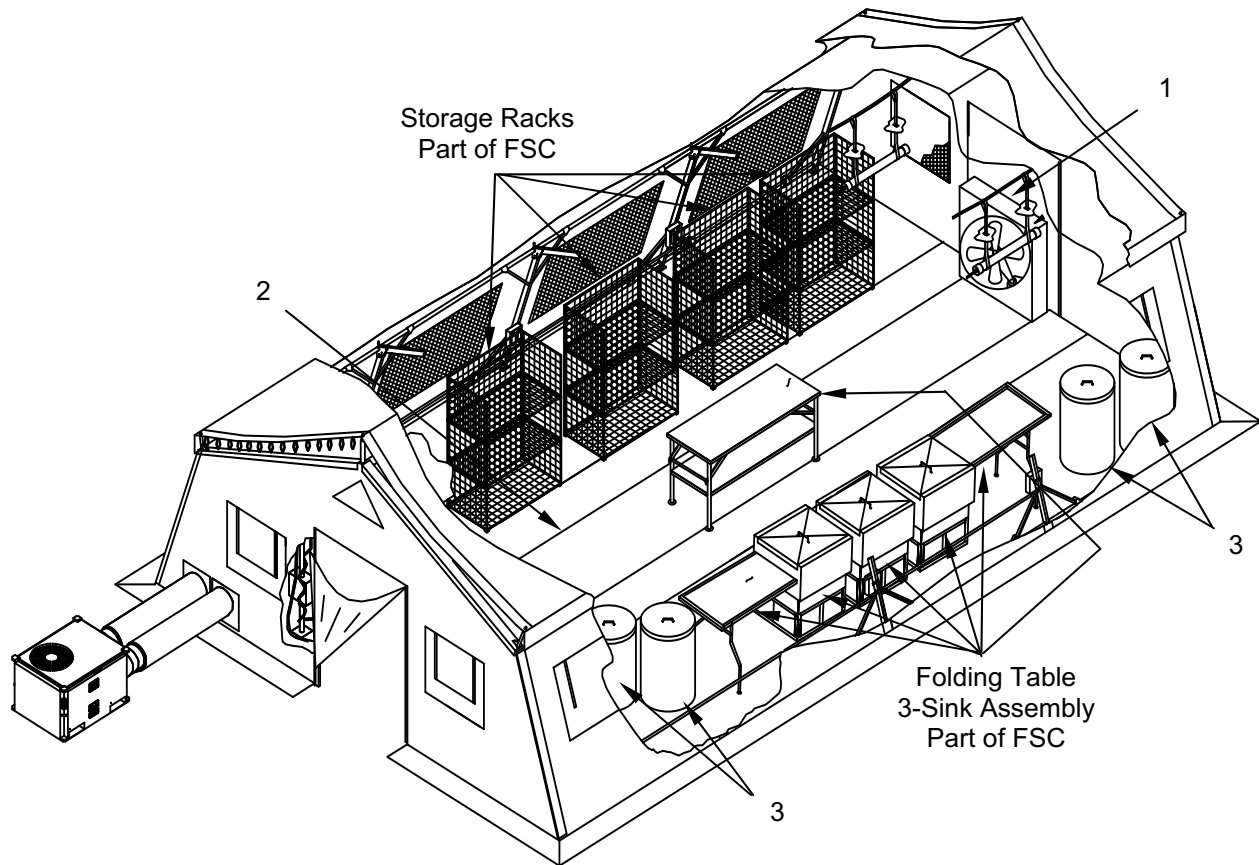
**Type XIX TEMPER Food Preparation Tent.**

Use contents of container types 10K and TM 10-7360-211-13&P to set up the food sanitation center.

1. Locate and position 30-inch fan (1) as shown. Enclose tent door around fan to form a seal.
2. Locate and position floor mats (2) as shown.
3. Locate and position four ash and garbage cans with lids (3) as shown.

**CAUTION**

Do not connect electrical equipment to a power source at this point. The connection should be made only after the food service subsystem has been connected to the FP power grid.



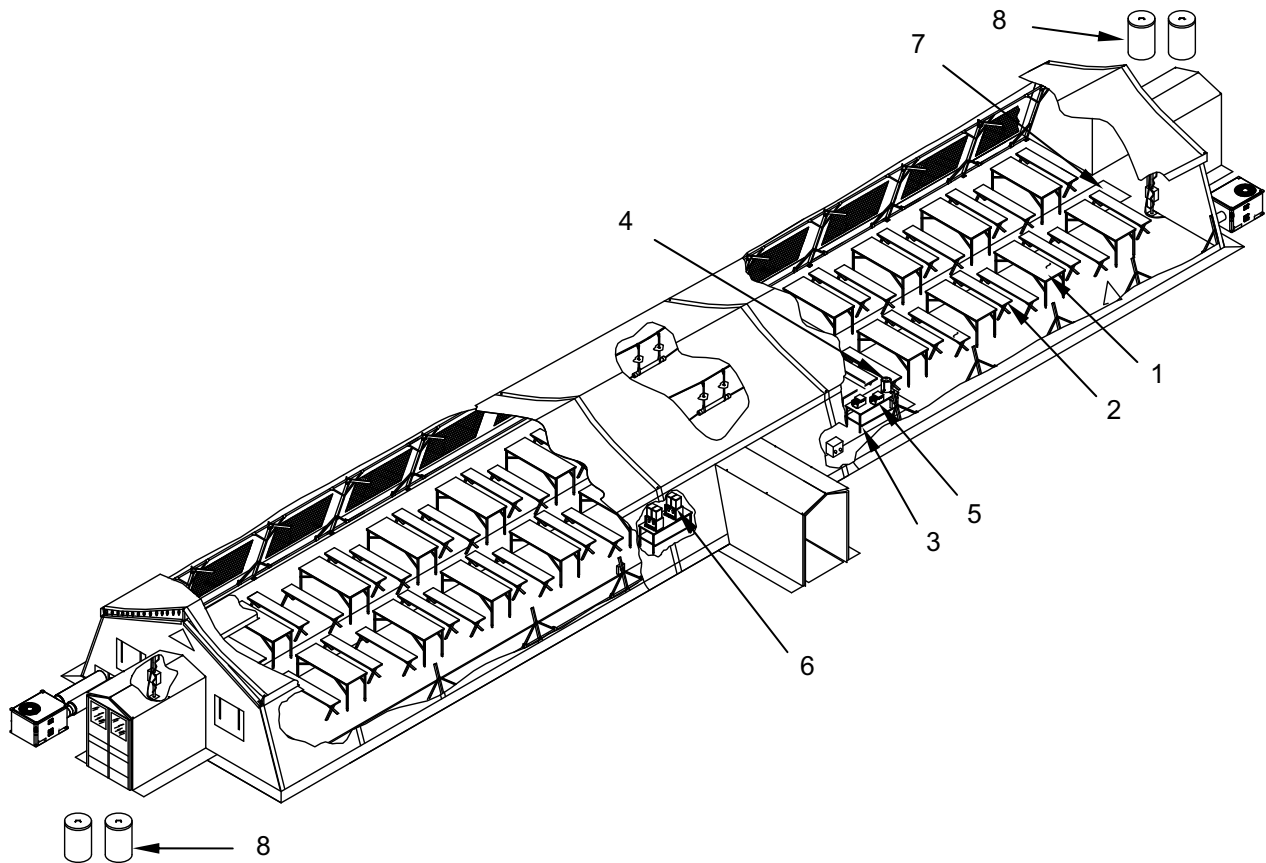
### Type XIX TEMPER Food Sanitation Center Tent.

Use contents of container types 10F and G to set up the dining TEMPER.

1. Locate and position twenty-two, 6-foot folding tables (1) as shown.
2. Locate and position thirty, 6-foot benches (2) as shown.
3. Locate and position two folding tables with shelf (3) as shown.
4. Locate and position the coffee urn (4) as shown.
5. Locate and position two conveyor rack electric toasters (5) as shown.
6. Locate and position two mechanical beverage dispensers (6).
7. Locate and position floor mats (7) as shown.
8. Locate and position four ash and garbage cans with lids (8) as shown.

### **CAUTION**

Do not connect electrical equipment to a power source at this point. The connection should be made only after the food service subsystem has been connected to the FP power grid.



**Type XVIII TEMPER Dining Tent.**

### **ASSEMBLY AND PREPARATION FOR USE OF FOOD SERVICE WASTEWATER EQUIPMENT**

Position Components where indicated by staking.

Use container type 10J components to assemble grease trap.



### **WARNING**

Grease trap is heavy. Use forklift to emplace. If no mechanical or other lifting capability is available, four persons are required to move it. Lifting should be accomplished with legs, not backs, to prevent injury.

1. Unpack grease trap (1) from TRICON and set it on the ground in proximity to the staked position.
2. Remove the lid (2) and examine the trap to ensure the pump (3) is properly seated.
3. Extend the pump power cord (4) through the small hole located on the outflow side of the trap.

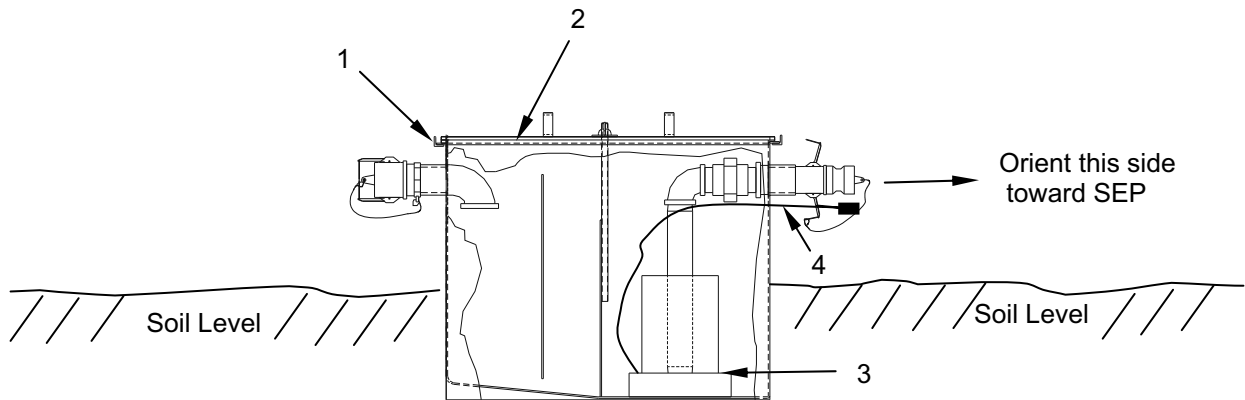
**CAUTION**

Field sinks are gravity drained. Proper operation of grease trap and sinks requires grease trap to be positioned below the lowest field sink and crossover, otherwise improper drainage from, or graywater backup to, the lowest field sink will result.

4. Dig a hole at the stake to accommodate the lower half of grease trap.
5. Emplace the grease trap (1) in hole, so that the outflow is pointing towards the SEP. Ensure only upper half is above ground. Backfill earth around the grease trap.

**CAUTION**

Do not connect electrical equipment to a power source at this point. The connection should be made only after the food service subsystem has been connected to the FP power grid.

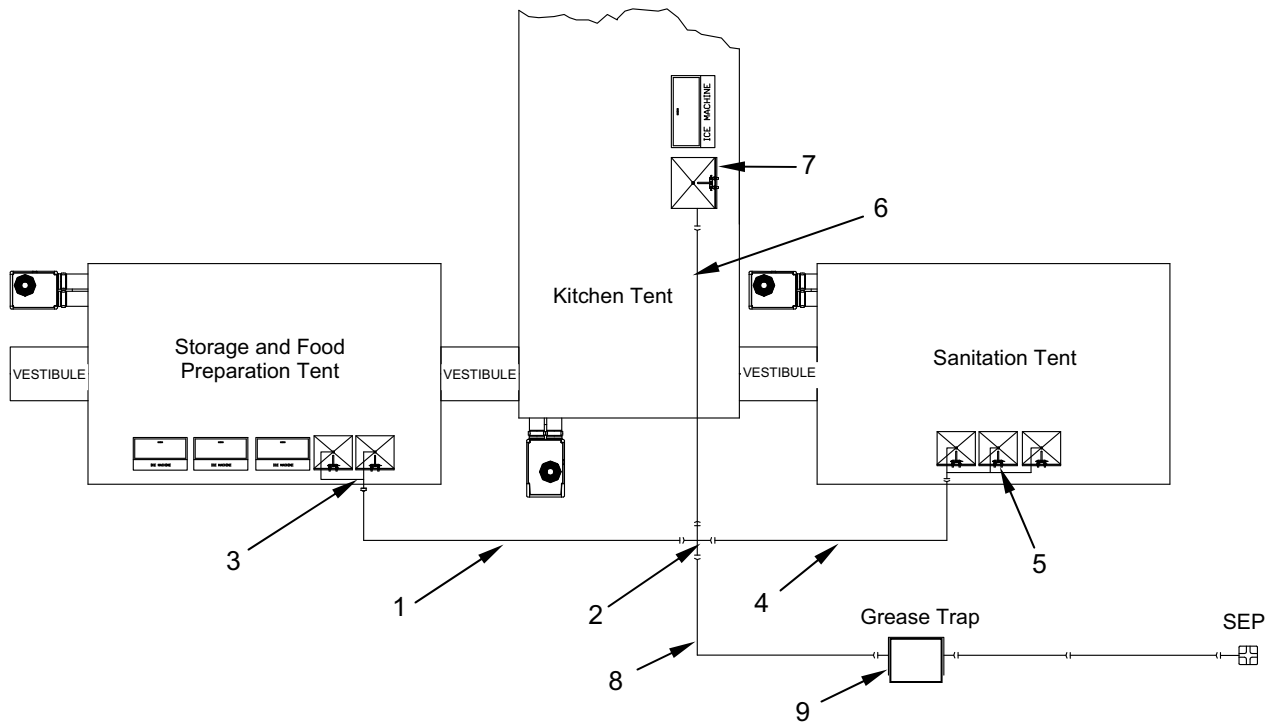
**Wastewater Hoses****CAUTION**

Whenever a wastewater hose must cross the path of an electrical cable, the graywater hose must be positioned beneath electrical cable, and if possible be separated by a section of culvert. Damage to electrical equipment may result from improper positioning of hose and cables.

1. Lay out hoses (1) from crossover (2) to two single-unit field sinks (3) in food preparation TEMPER. Pass hoses under tent walls to access field sinks.
2. Lay out hoses (4) from crossover (2) to one triple-unit field sink (5) in the sanitation TEMPER. Pass hoses under tent walls to access field sink.
3. Lay out hoses (6) from crossover (2) to one single-unit field sink (7) in the kitchen TEMPER. Pass hoses under tent walls to access field sink.
4. Lay hose (8) from crossover (2) to grease trap (9).
5. Connect wastewater hose(s) (1) to single unit field sinks (3), and hose(s) (6) to single unit field sink (7), in food preparation and kitchen TEMPER, respectively. Connect wastewater hose(s) (4) to triple unit field sink (5) in the sanitation TEMPER. This will connect to a three-to-one drain hose provided

with and installed as part of the food sanitation center assembly and preparation for use. (Refer to TM 10-7360-211-13&P.)

6. Connect other end of hose(s) to crossover (2).
7. Connect graywater hose (8) to drain insert on grease trap (9).



**Connecting the Grease Trap to the Sewage Ejection Pump (SEP)**



**WARNING**

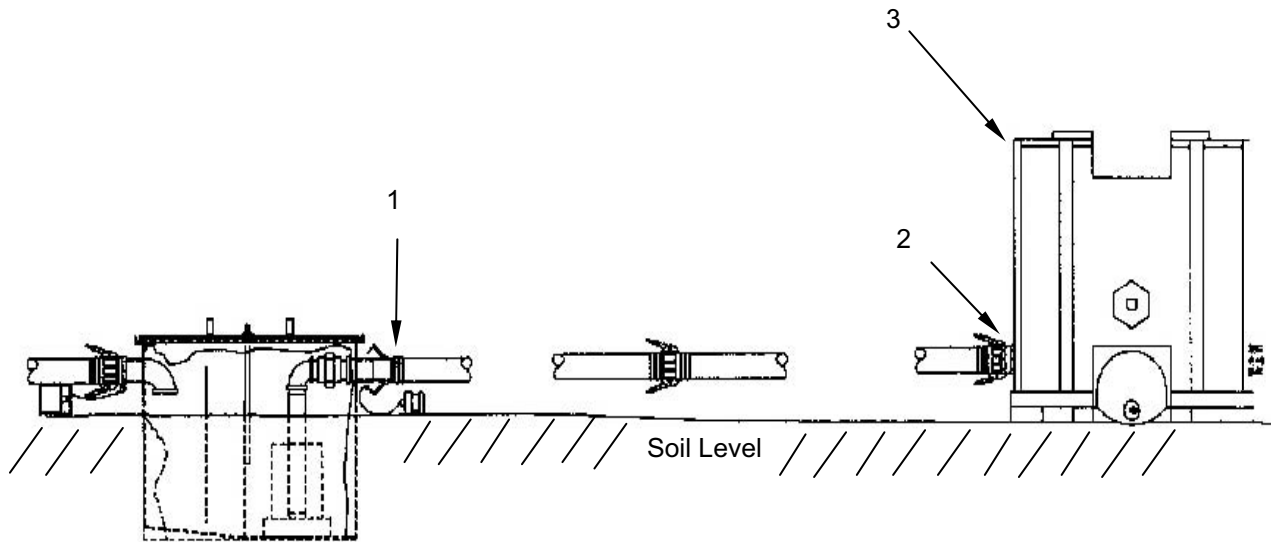
The SEP is heavy. Use forklift to emplace. If no mechanical or other lifting capability is available, four persons are required to move it. Lifting should be accomplished with legs, not backs, to prevent injury.

The SEP is being shipped in TRICON 10J. After unpacking, position it as indicated by stakes, about 15-feet from, and in-line with the grease trap.

1. Connect a 2-inch discharge hose to the 2-inch grease trap outlet fitting (1).
2. Connect the other end of the discharge hose(s) to one of the inlet ports (2) on the SEP (3).
3. Prepare the SEP (3) for operation as described in TM 10-4630-206-12&P.

**CAUTION**

Do not connect electrical equipment to a power source at this point. The connection should be made only after the food service subsystem has been connected to the FP power grid.



### ASSEMBLY AND PREPARATION FOR USE OF FOOD SERVICE WATER DISTRIBUTION EQUIPMENT

Position Components where indicated by staking.

1. Locate and position Tee (1) at staked potable water connection point. Potable water distribution personnel will connect Tee (1) to potable water mainline branch (2).
2. Locate and position M-80 water heater (3) within five feet of staked potable water connection point.
3. Locate and position manifold (4) as shown. It can be repositioned later if hoses do not reach.



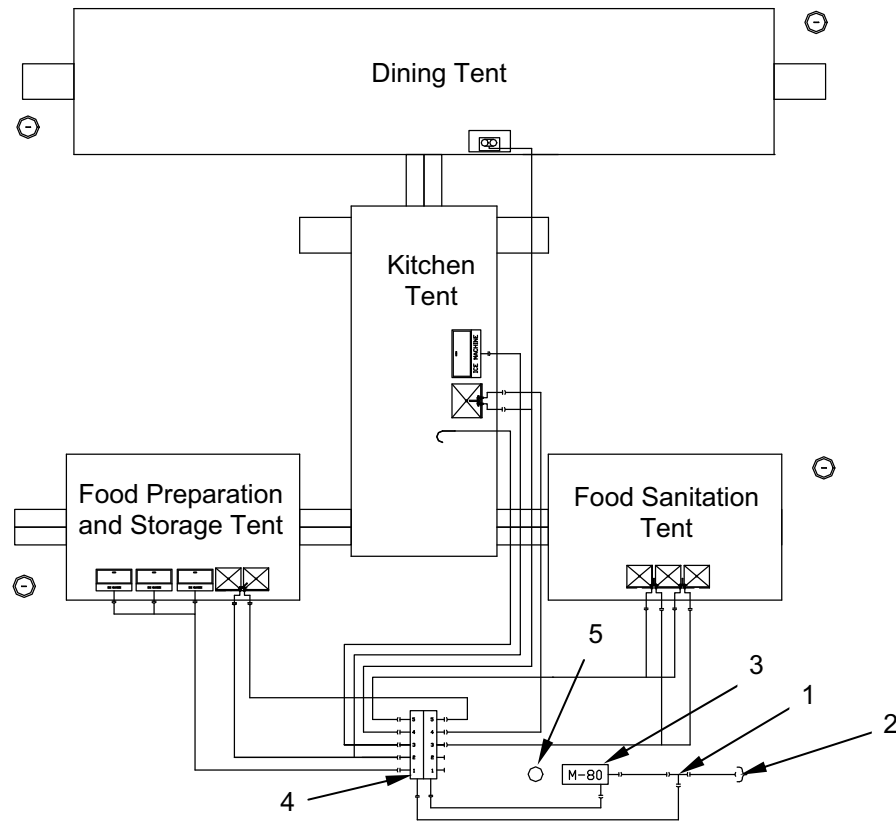
### WARNING

To prevent water contamination and resulting sickness or death, always route potable water hoses on top of graywater hoses. Do not connect any water hoses to appliances (faucets, coffee urn, ice machines, etc.) until medical personnel have certified water potable. Uncertified water that contaminates the appliance could result in sickness or death.

### CAUTION

To prevent damage to electrical components, always route potable water hoses underneath electrical cables. Failure to observe this caution may result in damage to electrical components.

4. The 55-gallon fuel drums (5) for M-80 operation must be obtained from fuel storage subsystem personnel and positioned in proximity of the water heater (3).



### Hot Water Hoses

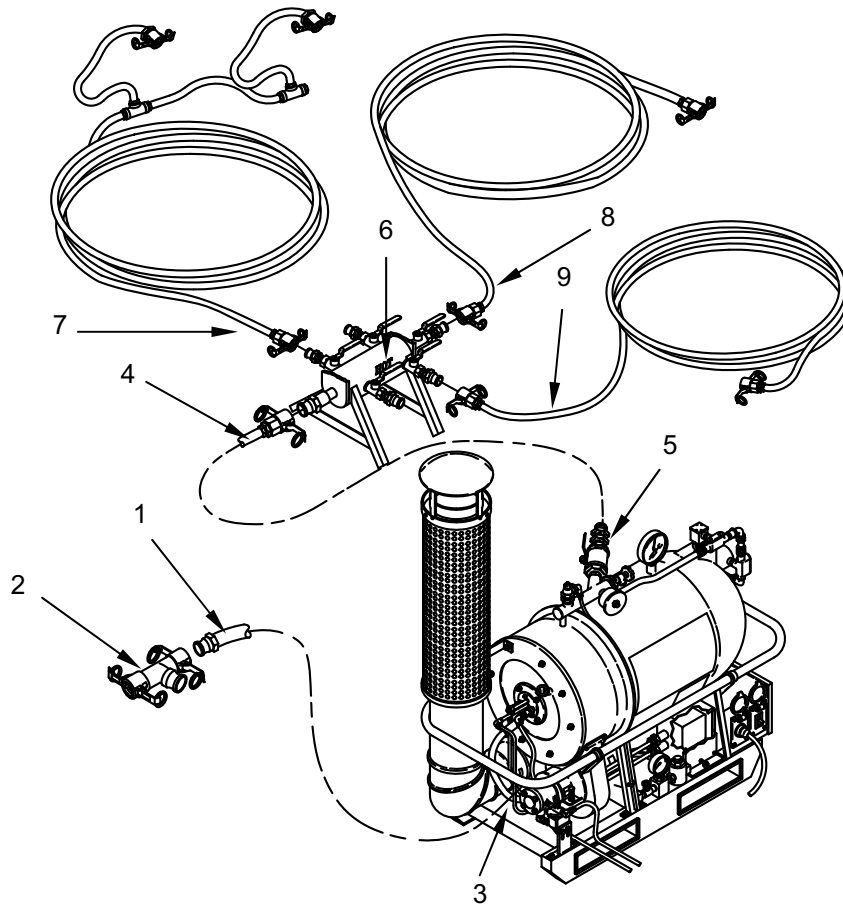
Potable water hoses must always be routed over graywater hoses, and beneath electrical cables. Route water hoses to appliances by pass them underneath tent walls and between liners, as necessary to reach the appliance.

1. Connect one end of 1½-inch x 6-foot cold water supply hose (1) to potable water inlet Tee (2), and other end to M-80 water heater inlet port (3).
2. Connect one end of 1-inch x 25-foot hot water supply hose (4) to M-80 outlet port (5), and the other end to the hot water inlet fitting on the manifold (6).

### NOTE

Hot water supply lines have female couplings on both ends. Two are identical, while the third has two couplings for double faucets in Sanitation TEMPER.

3. Connect hot water supply hoses (7), (8), and (9) for field sinks to manifold outlet ports (6). Extend hoses to sinks.
4. Ensure unused ports on manifold (6) remain closed (handle 90 degrees to port).

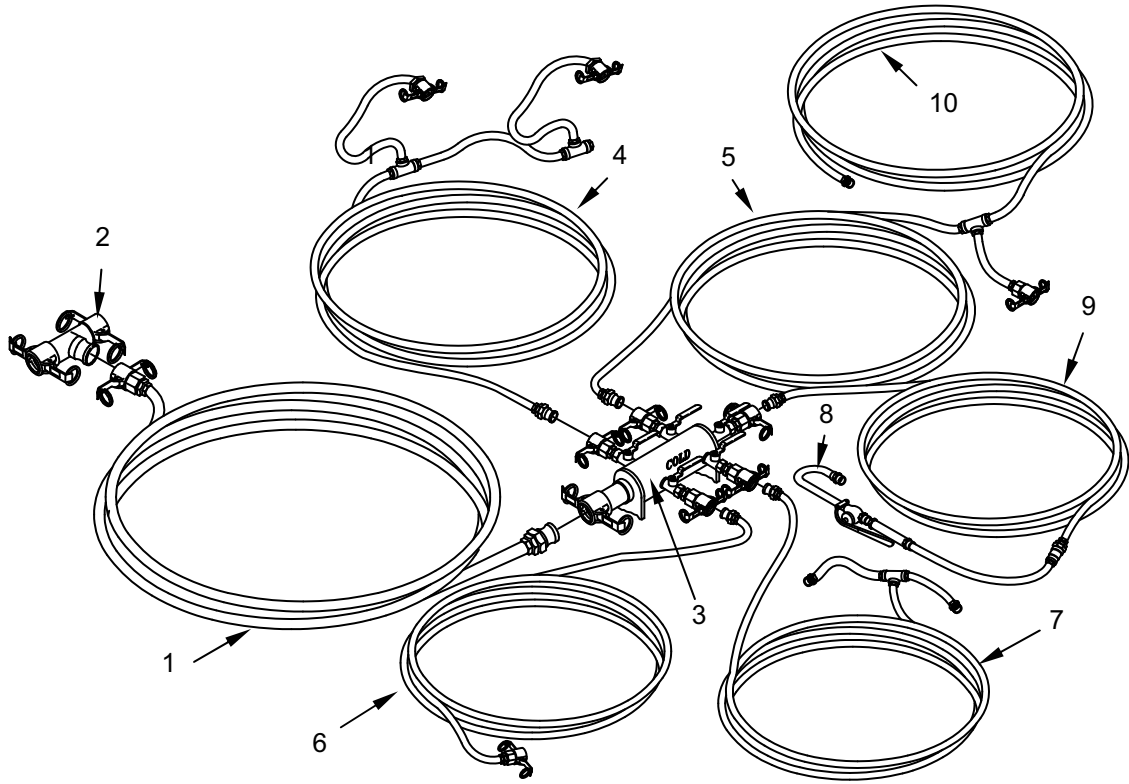


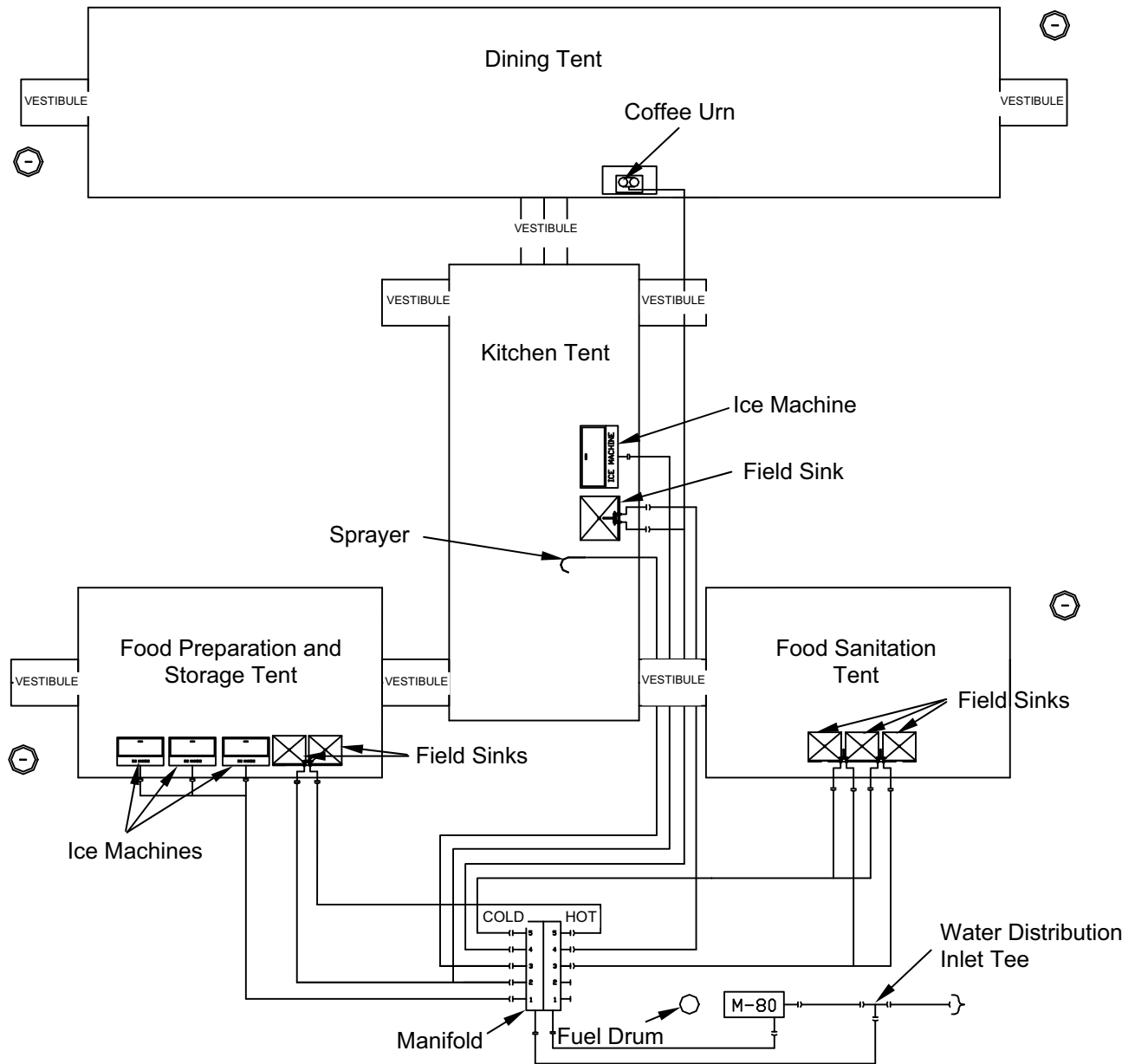
### Cold Water Hoses

Potable water hoses must always be routed over graywater hoses, and beneath electrical cables. Route water hoses to appliances by pass them underneath tent walls and between liners, as necessary to reach the appliance.

1. Connect one end of 1-inch x 25-foot cold water supply hose (1) to inlet Tee (2), and other end of hose to manifold (3).
2. Connect cold water supply hoses (4), (5), and (6), for field sinks and dining tent to manifold (3). Extend hoses to sinks and connect.
3. Connect cold water supply hose (7) for ice machines to manifold (3). Extend hose to ice machines and connect.
4. Connect hose end sprayer (8) hose (9) to manifold (3). Extend hose end sprayer with hose (9) to field sink located in the kitchen TEMPER.
5. Connect cold water supply hose (10) for coffee urn to hose T of dining tent hose. Extend hose to coffee urn.







**Food Service Water Distribution Layout.**

**ASSEMBLY AND PREPARATION FOR USE OF FOOD SERVICE POWER EQUIPMENT**



**WARNING**

The power equipment components are heavy and require more than one person to lift. Follow procedures specifying the number of people required to lift the components throughout this WP. Lifting should always be accomplished using legs, not backs, to prevent injury.

**CAUTION**

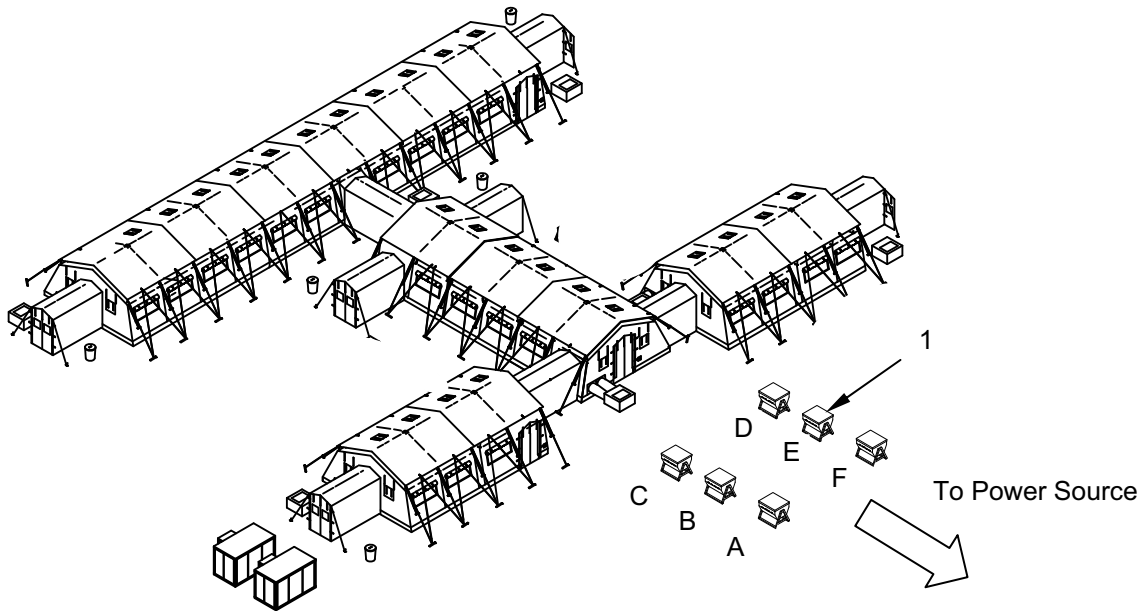
Route electrical cables away from vehicle traffic or damage to cables may result. Connect all loose dust caps after installing cables to prevent dirt and water damage to electrical connections.

**NOTE**

Lay out cables so that male ends are in the direction towards the power source, while female ends of cables go to point of use. When routing cables parallel to a TEMPER, position them between the tent wall and the stakes. Pass power cables under tent walls, as applicable, to reach components. Snake cables side to side to accommodate excess length, rather than coiling all excess in one location. Route cables in straight runs with 90-degree turns.

**Position the PDISE-M100**

Locate six PDISE-M100 (1) shipped in TRICON 10F (3), 10K (1), 10L (1) and 2A (part of the laundry subsystem) (1). Unpack the equipment and position the PDISE where indicated by staking (A through F). Orient the PDISE as shown.



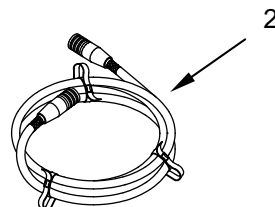
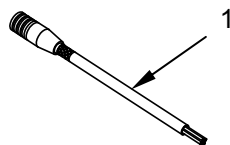
**Lay Out 100A/4-foot Pigtails and 100A/50-foot Service Cables from Power Source to PDISE-M100**



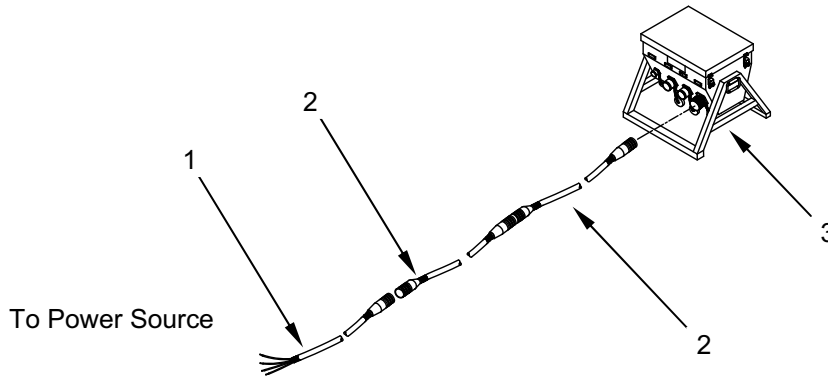
**WARNING**

The 100A/50-foot service cables are heavy and require two persons to lift. Lifting should always be accomplished with legs, not backs, to prevent injury.

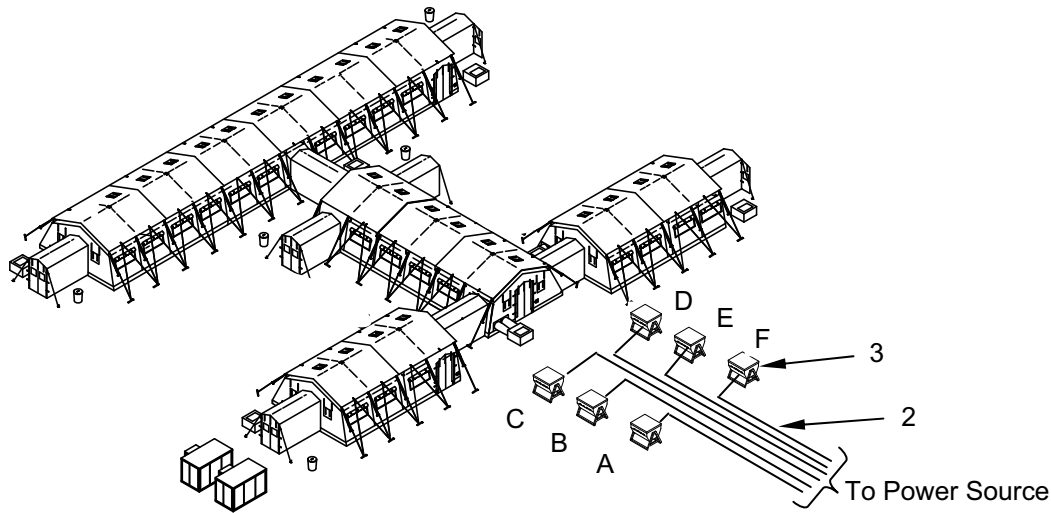
1. Locate six 100-A/4-foot pigtails (1) and twelve 100-A/50-foot service cables (2).



2. Lay out, from power source to each PDISE-M100, A, B, C, D, E, and F (3), one pigtail (1) and two 100-A/50-foot service cables (2) (in series). Do not remove dust caps at this time.



3. Lay out 100-A/50-foot service cables (2) in parallel, from power source to each PDISE-M100, A, B, C, D, E, and F (3). Coil excess cable length at power source if necessary. Do not remove dust caps at this time.



### Lay Out 60A/100-foot Power Cables from PDISE-M100 to Kitchen Facility

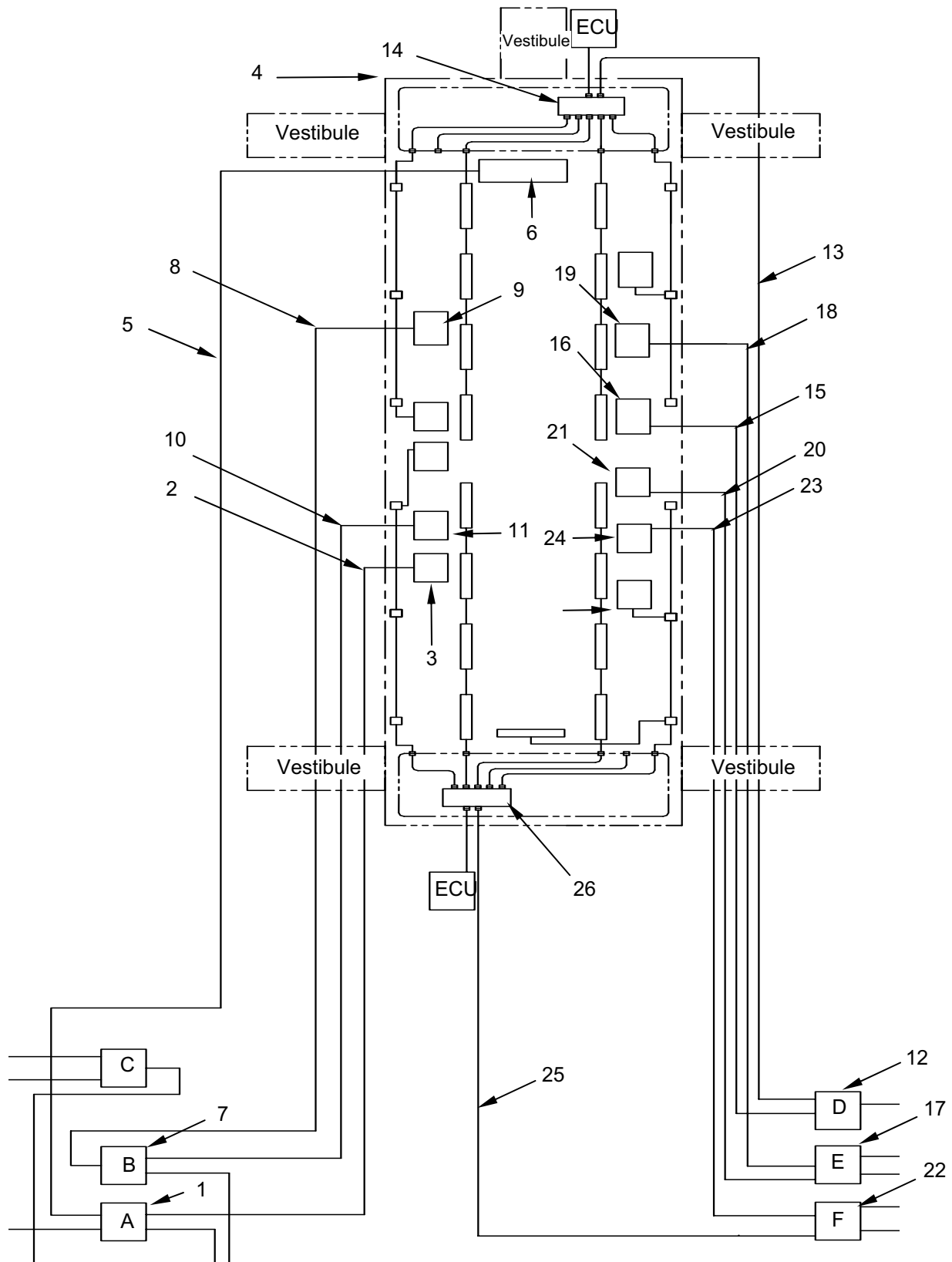


### WARNING

The 60A/100-foot power cables are heavy and require two persons to lift. Lifting should always be accomplished with legs, not backs, to prevent injury.

1. Locate ten 60-A/100-foot power cables.
2. From PDISE-M100 'A' (1) lay out in series:
  - a. One cable (2) to an oven (3) in the kitchen TEMPER (4) (to be connected to J3 receptacle).
  - b. One cable (5) to steam table (6) in the kitchen TEMPER (4) (to be connected to J6 receptacle).

3. From PDISE-M100 'B' (7) lay out in series:
  - a. One cable (8) to the griddle (9) in the kitchen TEMPER (4) (to be connected to J6 receptacle).
  - b. One cable (10) to an oven (11) in the kitchen TEMPER (4) (to be connected to J3 receptacle).
4. From PDISE-M100 'D' (12) lay out in series:
  - a. One cable (13) to the electrical distribution box (14) in the kitchen TEMPER (4) (to be connected to J6 receptacle).
  - b. One cable (15) to the ice machine (16) in the kitchen TEMPER (4) (to be connected to J4 receptacle).
5. From PDISE-M100 'E' (17) lay out in series:
  - a. One cable (18) to the tilt griddle (19) in the kitchen TEMPER (4) (to be connected to J6 receptacle).
  - b. One cable (20) to the 20-Gallon steam kettle (21) in the kitchen TEMPER (4) (to be connected to J4 receptacle).
6. From PDISE-M100 'F' (22) lay out in series:
  - a. One cable (23) to the 6-Gallon steam kettle (24) in the kitchen TEMPER (4) (to be connected to J4 receptacle).
  - b. One cable (25) to the second electrical distribution box (26) in the kitchen TEMPER (4) (to be connected to J6 receptacle).



## Lay Out 60A/100-foot Power Cables from PDISE-M100 to Dining Facility



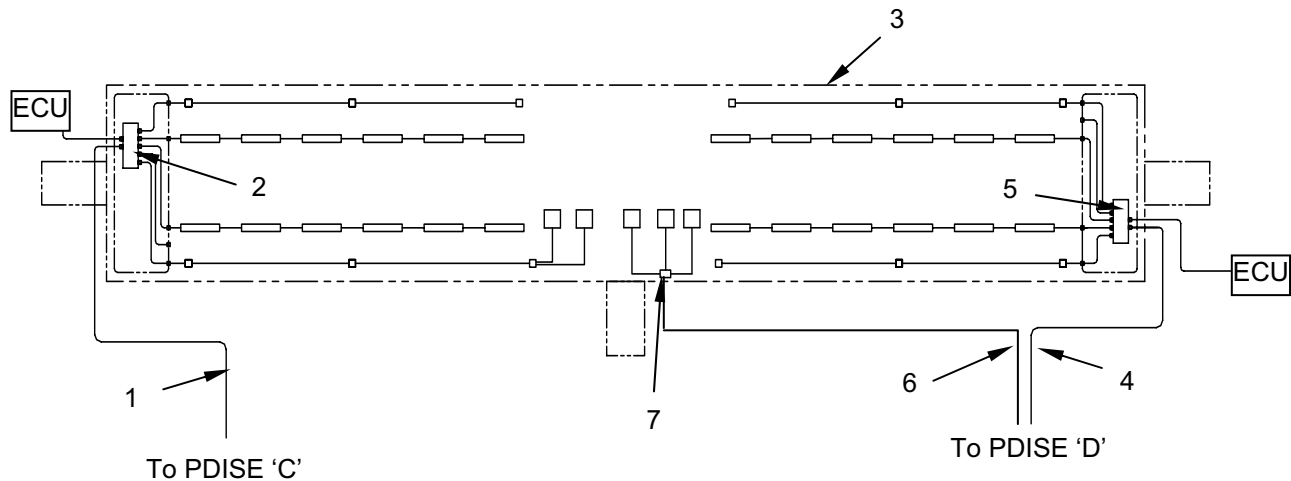
### WARNING

The 60A/100-foot power cables are heavy and require two persons to lift. Lifting should always be accomplished with legs, not backs, to prevent injury.

### NOTE

Depending on the specific layout of the food service subsystem, additional 60-A/100-foot power cables may be required to connect the TEMPER power distribution boxes to the respective PDISE. Additional cables are provided as part of the system support package located in TRICON 11C.

1. Locate three 60-A/100-foot power cables.
2. From PDISE-M100 C lay out one cable (1) to the electrical distribution box (2) in the dining TEMPER (3) (to be connected to J6 receptacle).
3. From PDISE-M100 D lay out:
  - a. One cable (4) to the electrical distribution box (5) in the dining TEMPER (3) (to be connected to J3 receptacle).
  - b. One cable (6) to the power distribution box kitchen (7) in the dining TEMPER (3) (to be connected to J5 receptacle).



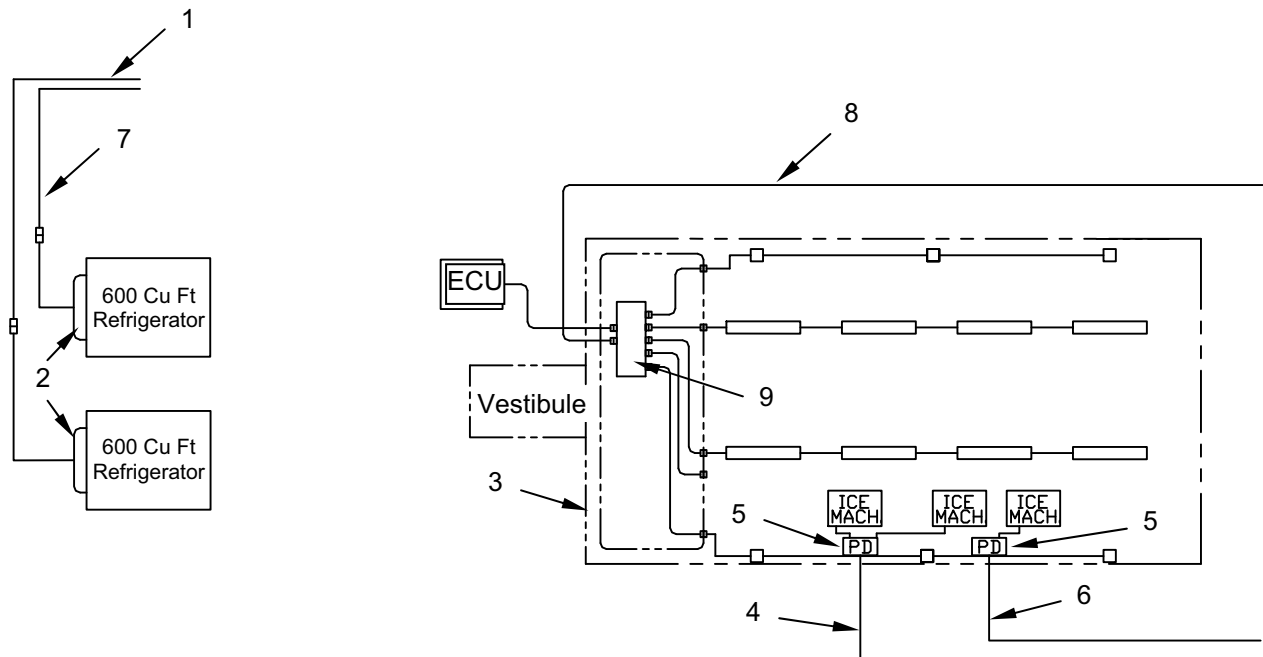
**Lay Out 60A/100-foot Power Cables from PDISE-M100 to Food Preparation Facility**



**WARNING**

The 60A/100-foot power cables are heavy and require two persons to lift. Lifting should always be accomplished with legs, not backs, to prevent injury.

1. Locate five 60-A/100-foot power cables.
2. From PDISE-M100 'A' lay out:
  - a. One cable (1) to one of two 10,000 BTU Mechanical Refrigeration Units (2) located adjacent to the food preparation TEMPER (3) (to be connected to J4 receptacle).
  - b. One cable (4) to one of two power distribution box kitchen (5) in the food preparation TEMPER (3) (to be connected to J5 receptacle).
3. From PDISE-M100 B lay out one cable (6) to one of two power distribution box kitchen (5) in the food preparation TEMPER (3) (to be connected to J5 receptacle).
4. From PDISE-M100 C lay out:
  - a. One cable (7) to one of two 10,000 BTU Mechanical Refrigeration Units (2) located adjacent to the food preparation TEMPER (3) (to be connected to J4 receptacle).
  - b. One cable (8) to the electrical distribution box (9) in the food preparation TEMPER (3) (to be connected to J3 receptacle).





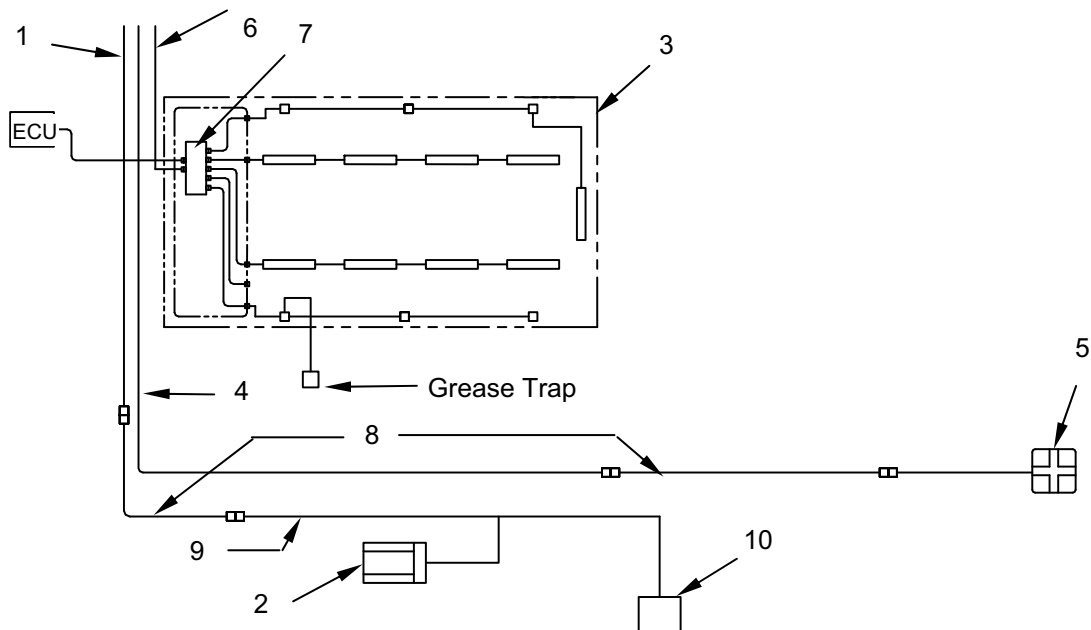
## Lay Out 60A/100-foot Power Cables from PDISE-M100 to Food Sanitation Facility



### WARNING

The 60A/100-foot power cables are heavy and require two persons to lift. Lifting should always be accomplished with legs, not backs, to prevent injury.

1. Locate three 60-A/100-foot power cables.
2. From PDISE-M100 'E' lay out:
  - a. One cable (1) towards the M-80 Water Heater (2), located adjacent to the sanitation TEMPER (3) (to be connected to J5 receptacle).
3. From PDISE-M100 'F' lay out:
  - a. One cable (4) towards the SEP (5), located adjacent to the sanitation TEMPER (3) (to be connected to J5 receptacle).
  - b. One cable (6) to the electrical distribution box (7) in the sanitation TEMPER (3) to be connected to J3 receptacle.
4. Locate two, 20A, Class L to Commercial cables (8) and lay out as follows:
  - a. Lay out one, 20A, Class L to Commercial cable from the end of the power cable (1) laid out in step 2. a., above and extend towards the M-80 Water Heater (2).
  - b. Lay out the second, 20A, Class L to Commercial cable from the end of the power cable (4) laid out in step 3. a., above and extend towards the SEP (5).
5. Locate the 20A Tee cable assembly (9). Lay it from the end of the 20A Class L to Commercial cable laid out in step 4. b., above and extend towards the M-80 Water Heater (2) and water pump (10).

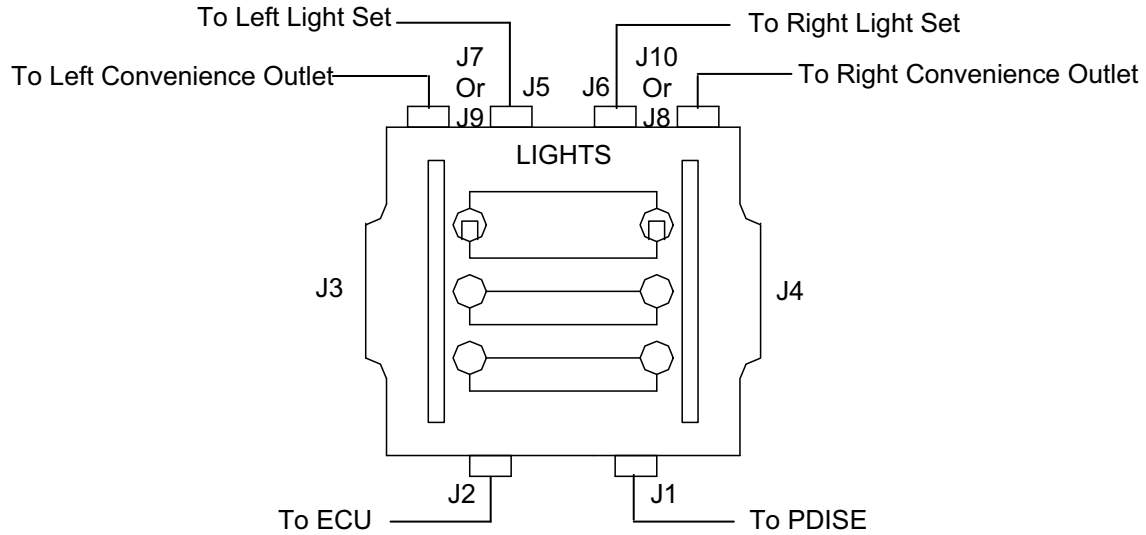


**Connect Electrical Cables Laid Out From Point Of Use to PDISE-M100**

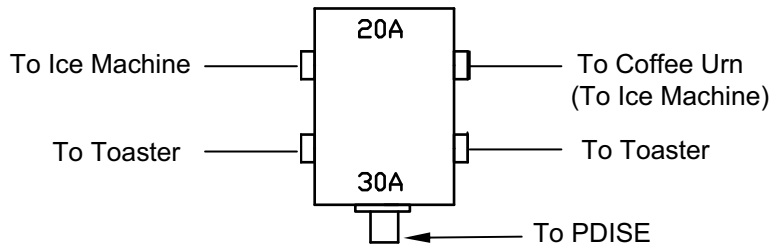
**CAUTION**

Ensure all equipment is turned off before connecting to the power grid. Serious damage may occur if equipment is inadvertently started.

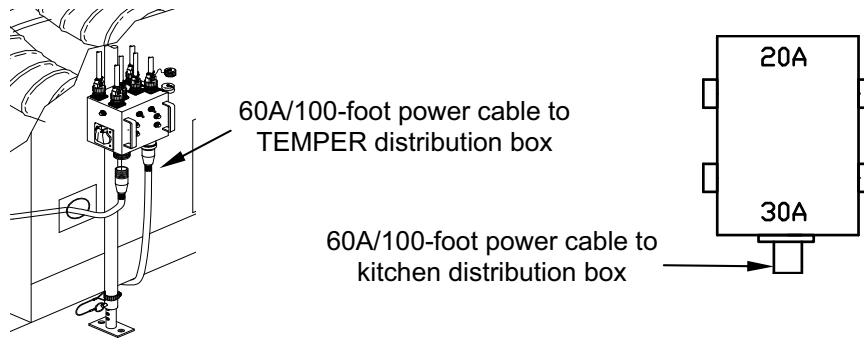
1. Connect TEMPER fluorescent lights and convenience outlet assemblies to the TEMPER electrical distribution box as shown. (Refer to TM 10-8340-224-13 for additional information as necessary.)



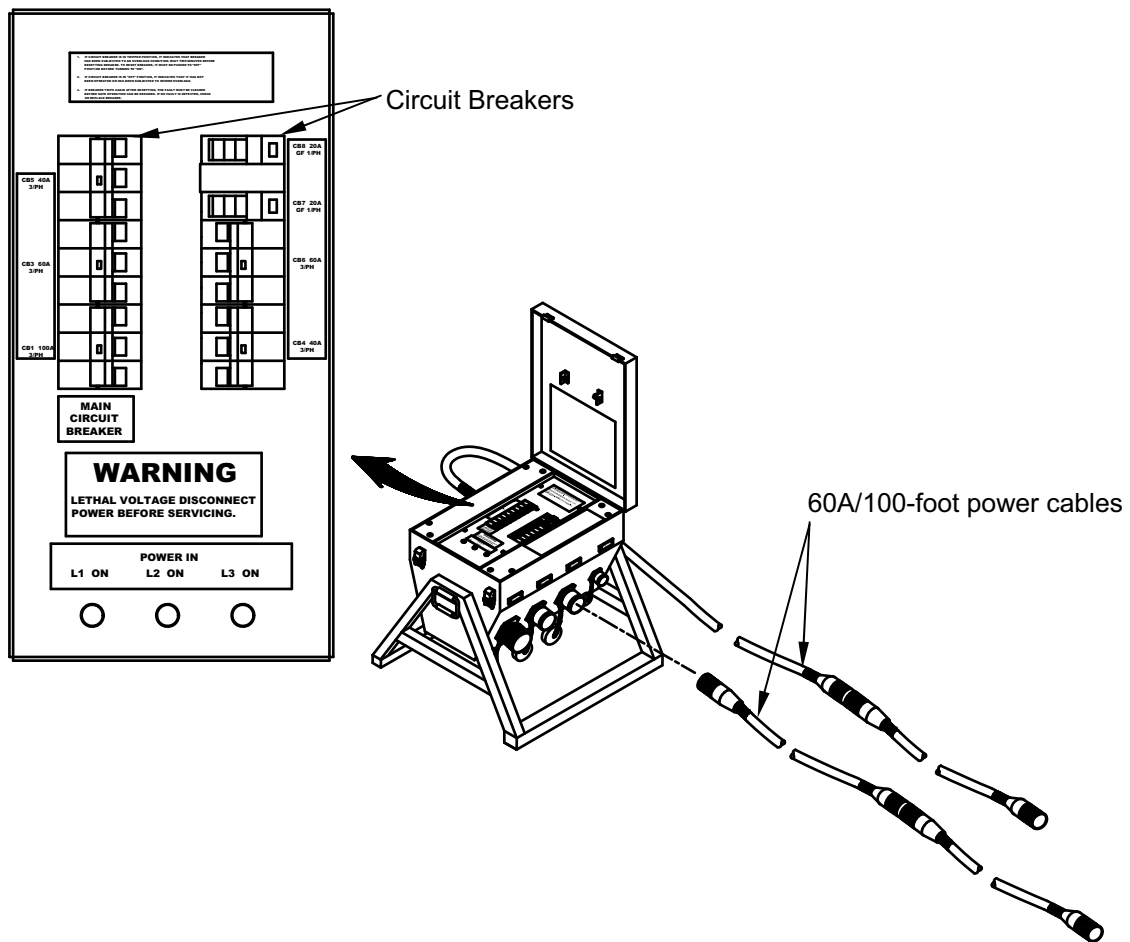
2. Connect the toasters in the dining TEMPER to the 30A connectors on the kitchen power distribution box. Connect the coffee urn to the 20A connector.
3. Connect the ice machines in the food preparation TEMPER to the 20A connectors on the kitchen power distribution box.



4. Connect the power cords of the meat slicer, warming cabinet, mixer, and refrigerator in the kitchen TEMPER into the nearest convenience outlet.
5. Connect the grease trap power cord into the nearest TEMPER convenience outlet in the sanitation facility.
6. Insert female end of 100-foot/60-A service/feeder cables laid out previously, firmly into receptacle or pigtail of equipment /appliance, as well as TEMPER and kitchen electrical distribution boxes. Secure with lock ring. Connect dust caps.



7. Where multiple 60A/100-foot service cables are used, connect pairs of cables together and secure with lock rings. Connect dust caps.
8. Open PDISE-M100 covers and set all circuit breakers to OFF.
9. Connect power cables to the PDISE-M100 receptacles identified in the cable layout instructions for each food service facility (TEMPER), and secure with lock rings. Connect dust caps.



### Connect Electrical Cables and Pigtails from PDISE-M100s to Power Source

Connect 100A/4-foot pigtails and 100A/50-foot service cables laid out previously, from PDISE-M100s to power source as described below:

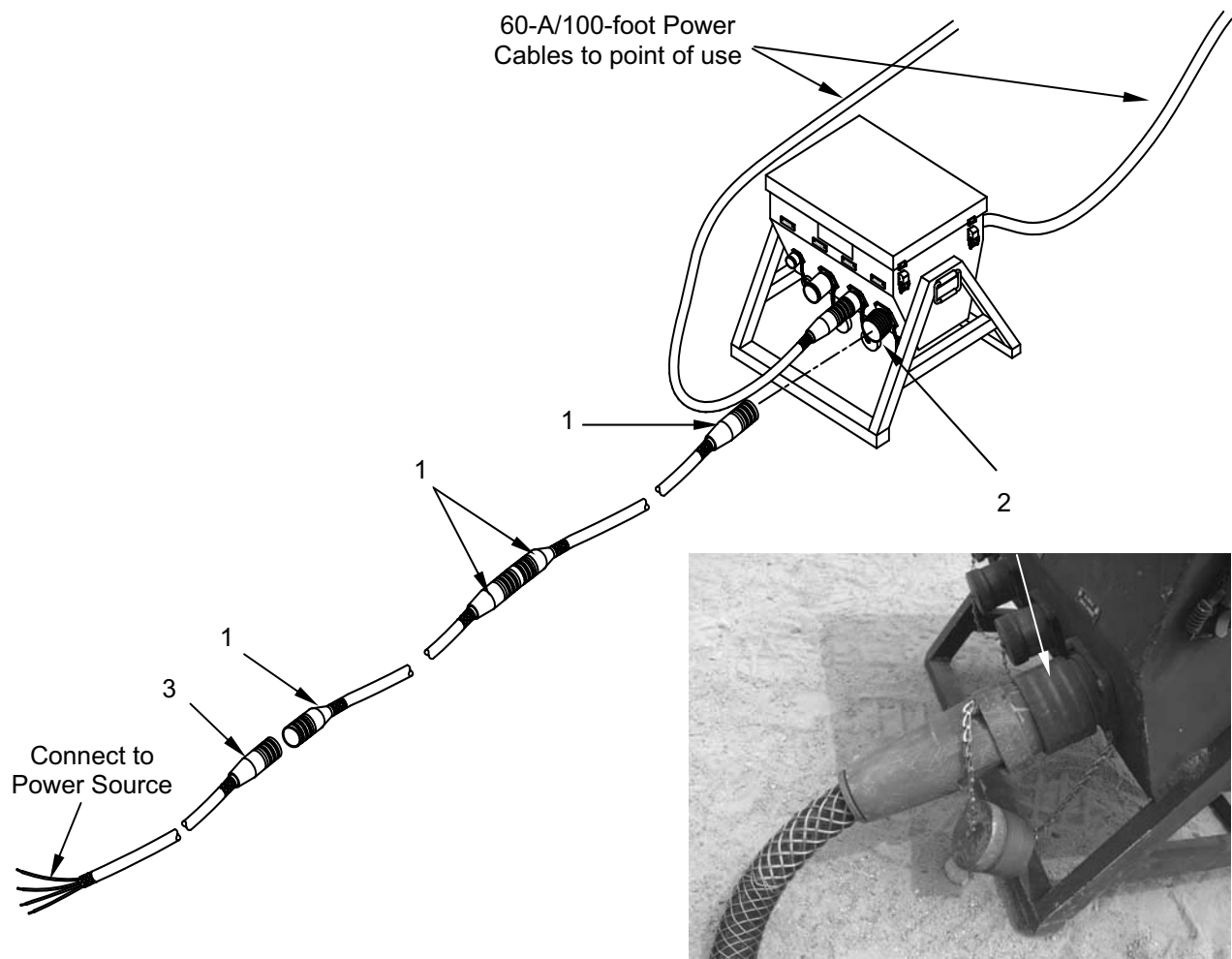
1. Connect 50-foot/100-A cables (1) to J1 connector on PDISE-M100 (2) and secure with lock rings. Connect dust caps.
2. Connect pairs of 50-foot/100-A cables (1) together and secure with lock rings. Connect dust caps.
3. Connect cables (1) to 4-foot/100-A pigtails (3) and secure with lock rings. Connect dust caps.



#### WARNING

Only qualified technician must connect pigtails to power source. Failure to observe this warning may result in electrocution, severe injury, or death.

4. Once power (source) distribution system has been established, a qualified technician will connect the four 4-foot/100-A pigtails (3) to power source and notify the food service subsystem when power is available.



**OPERATING PROCEDURES FOR FOOD SERVICE SUBSYSTEM**

Operate the food service subsystem by following the procedures described below, or refer to the technical manuals indicated.

**OPERATING PROCEDURES FOR FOOD SERVICE TEMPER**

Operate TEMPER in accordance with TM 10-8340-224-13.

**OPERATING PROCEDURES FOR PDISE M100**

Operate the PDISE in accordance with TM 9-6150-226-13.

**OPERATING PROCEDURES FOR KITCHEN EQUIPMENT**

Operate kitchen equipment as described in TM 10-7310-282-10.

**OPERATING PROCEDURES FOR 600-CUBIC FOOT REFRIGERATOR**

Operate 600-cubic foot Refrigerator in accordance with TM 9-4110-241-13.

**OPERATING PROCEDURES FOR M-80 WATER HEATER**

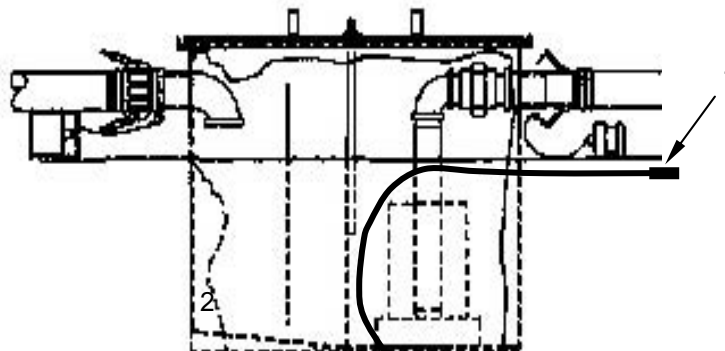
Operate M-80 Water Heater in accordance with TM 10-4520-259-13&P.

**OPERATING PROCEDURES FOR SEP/SES**

Operate the SEP, or SES in accordance with TM 10-4630-206-12&P.

**Grease Trap**

Operate the grease trap by connecting the power cord (1) into one of the food preparation TEMPER convenience outlets. The pump will start and stop automatically in response to fluid level in trap.



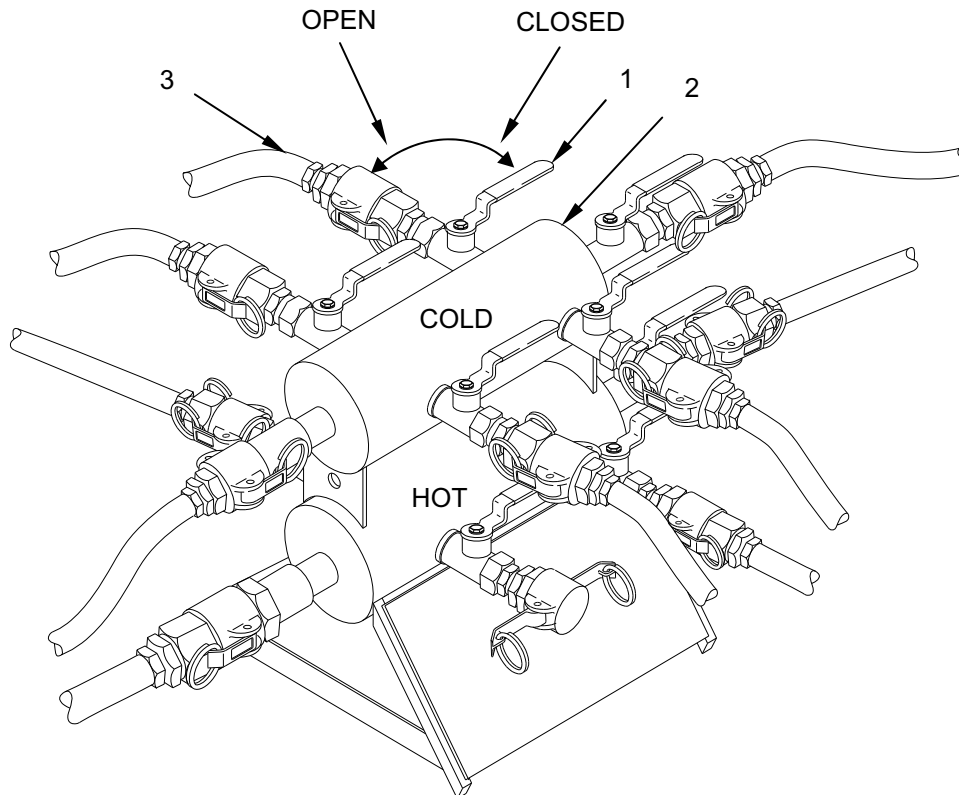
## Water Distribution System

Water distribution personnel will notify food service personnel when the potable water supply is certified and ready for use. After the water has been certified, water distribution personnel will open the main valve to food service.

### NOTE

Note valve handle in CLOSED and OPEN position shown below.

1. Ensure all valves (1) on water distribution manifold (2) are initially closed.
2. After water distribution has been turned on, open each valve (1) (hot and cold) and allow water to flush the hoses (3). Let water run into a sink or container for several minutes.
3. Close each valve (1) after flushing.
4. Connect each flushed hose (3) to designated appliance or faucet.
5. When all hoses have been connected, open valves to serviced appliances and faucets



**OPERATING PROCEDURES FOR ECU****NOTE**

If ECU Model AH-54 (NSN 4120-01-432-6408) is at hand, operate it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are used, operate them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions below.

**Initial Adjustments and Checks**

1. Ensure power cable has been connected to a 208/230-V, 3 Phase, 50/60-Hz power source.
2. Inspect all covers, panels, grilles, and screens for loose mounting, obstructions, preservation material, or shipping damage. Report damage to supervisor.

**Operation in Ventilate Mode**

1. Turn mode selector switch (1) to VENT position.

**NOTE**

When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

2. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

**Operation in Automatic Mode****CAUTION**

Compressor can be damaged if started with liquid refrigerant in crankcase. Power must be connected to ECU for a period of not less than 5 hours before starting in automatic mode. Do not operate the ECU in the automatic mode for cooling when the outside air temperature is below 50 °F. Under these conditions, operate in the ventilate mode and admit fresh air as required to maintain desired temperature in the conditioned space.

1. Turn mode selector switch (1) to AUTOMATIC position.
2. Turn TEMPERATURE control (3) toward DECREASE or INCREASE as necessary to adjust and maintain the desired temperature in the conditioned space. When adjusting the TEMPERATURE control, the ECU must be given adequate time to change the temperature in the conditioned space before making additional adjustments. The temperature control has a range of 40 °F to 90 °F (5 °C to 32 °C) with the mid-point being approximately 65 °F (18 °C). Turn mode selector switch (1) to AUTOMATIC position.

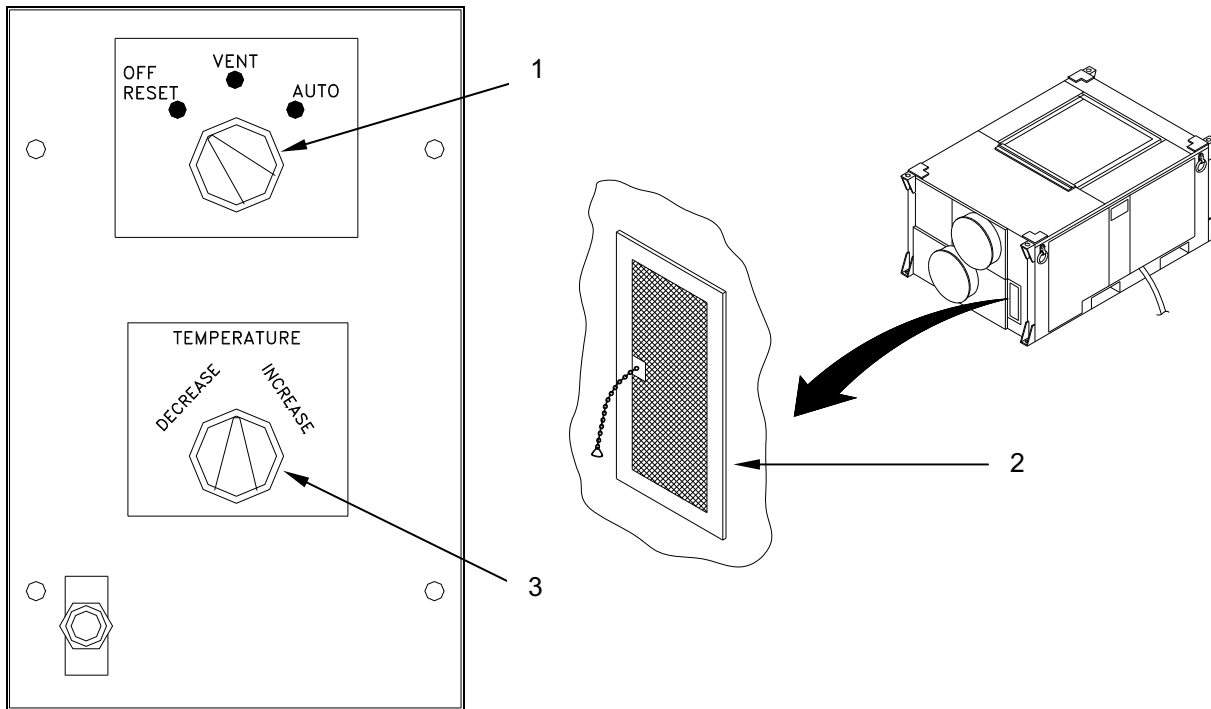
**NOTE**

When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened slightly to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

3. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

**Shutdown**

Turn mode selector (1) to the OFF/RESET position.



**END OF WORK PACKAGE**



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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS –  
SITE PREPARATION AND MAINTENANCE SUBSYSTEM**

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**GENERAL**

This WP identifies and describes the site preparation equipment. Although this equipment is provided primarily for use during FP facilities setup, it should be centrally located thereafter to allow use of needed equipment during normal operation as required.

The location of the site preparation TRICON containers within the module layout is not specified by staking. Position the equipment where needed.

**SCOPE**

Assembly and preparation for use of the site preparation equipment consists of the following:

- Unpacking and inventory of site preparation equipment in TRICON 11A.
- Positioning of equipment where needed.
- Establishing a central location where equipment is maintained.
- Store equipment in TRICON when site preparation is completed.

**UNPACKING AND INVENTORY**

Unpack and inventory site preparation equipment using Table 1 of this WP.

Site preparation equipment is packed in the following container types and quantities:

One TRICON Type 11A (Site Preparation/Maintenance Kit).

To unpack the equipment, proceed as follows:

1. Open the container and check its contents against Table 1 below. An inventory list located on the inside of the TRICON door can also be used to check contents.
2. Remove each item from the container and set it aside, but not in an area where equipment is to be positioned for operation. Retain all dunnage and packing materials for future use.
3. Place reusable container, container cover, dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.

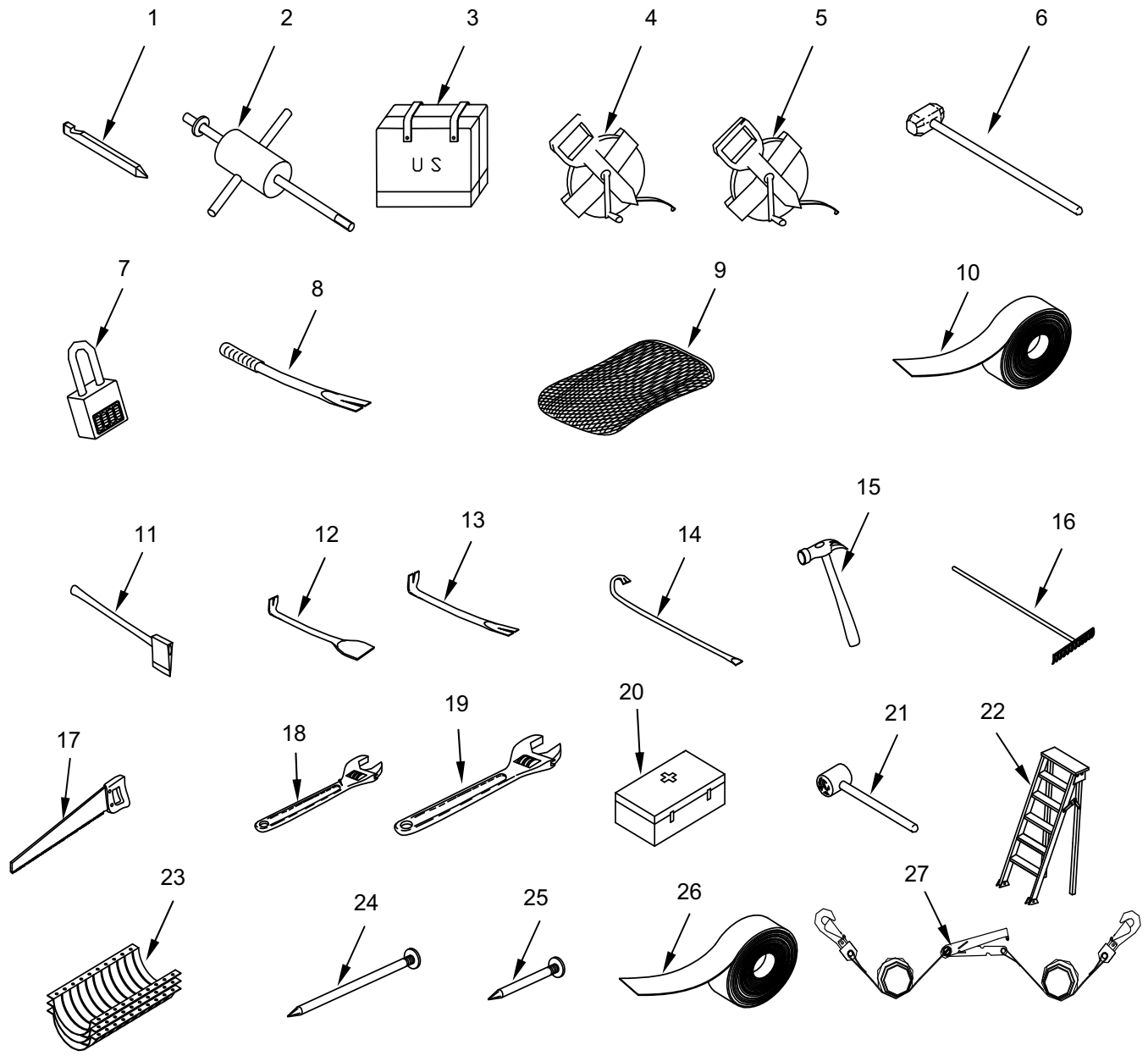
**NOTE**

TRICON 11B and 11C, containing System Support Packages (SSP), will be positioned in the Administrative Subsystem area where their contents will be inventoried and maintained by the host unit.

**Table 1. Inventory List for Site Preparation and Maintenance Kit TRICON Type 11A.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	4
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	8
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL	WP 0085 00, COEI, Item 9	1
PIN, TENT, WOOD, 24 IN	Page 0032 00-3, Item 1	200
SLIDE HAMMER, GROUND ROD	Page 0032 00-3, Item 2	1
SIGN MAKING KIT, PORTABLE	Page 0032 00-3, Item 3	8
TAPE, MEASURING, 100 FT, OPEN REEL, FIBERGLASS	Page 0032 00-3, Item 4	2
TAPE, MEASURING, 300 FT, OPEN REEL, FIBERGLASS	Page 0032 00-3, Item 5	1
SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG	Page 0032 00-3, Item 6	5
PADLOCK, COMBINATION, FOUR POINT	Page 0032 00-3, Item 7	25
OPENER, CRATE	Page 0032 00-3, Item 8	5
BAG, SAND, ACRYLIC, GREEN	Page 0032 00-3, Item 9	38
RIBBON, FLAGGING, SURVEYOR'S, FLUORESCENT PINK, 50 YARD ROLL	Page 0032 00-3, Item 10	1
AX, SINGLE BIT, FLAT TOP FACE, HICKORY HANDLE, 31 IN LONG, 4 POUND HEAD	Page 0032 00-3, Item 11	1
BAR, COMBINATION PRY AND SCRAPE, 2½ X 13 INCH	Page 0032 00-3, Item 12	5
PRY BAR, 16 IN LONG, STEEL	Page 0032 00-3, Item 13	5
BAR, WRECKING, ¾ IN DIAMETER, 36 IN LONG	Page 0032 00-3, Item 14	5
HAMMER, HAND, 16 OZ. HEAD, 13 IN LONG	Page 0032 00-3, Item 15	5
RAKE, GARDEN	Page 0032 00-3, Item 16	10
SAW, CROSSCUT, SKEW BACK, 26 IN CUTTING EDGE, 8 POINTS PER IN	Page 0032 00-3, Item 17	2
WRENCH, ADJUSTABLE, 8 IN LONG, 15/16 IN JAW CAPACITY	Page 0032 00-3, Item 18	5
WRENCH, ADJUSTABLE, 12 IN LONG, 1-5/16 IN JAW CAPACITY	Page 0032 00-3, Item 19	5
FIRST AID KIT, 20-25 MAN CREW	Page 0032 00-3, Item 20	10
MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD	Page 0032 00-3, Item 21	2
STEP LADDER, 6 FT, 250 POUND DUTY RATING, UL 112, TYPE I	Page 0032 00-3, Item 22	2
PIPE, CULVERT, NESTABLE, STEEL, 12 IN DIA, ROUND, FLANGED HALF SECTIONS WITH BOLTS AND NUTS	Page 0032 00-3, Item 23	120
NAIL COMMON, SIZE 10D, (3-1/4 IN. LONG), 5 LB. BOX	Page 0032 00-3, Item 24	20
NAIL COMMON, SIZE 8D, (2½ IN. LONG), 5 LB. BOX	Page 0032 00-3, Item 25	20
RIBBON, FLAGGING, SURVEYOR'S, FLUORESCENT YELLOW, 50 YARD ROLL (BOX)	Page 0032 00-3, Item 26	1
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM TM 10-5419-206-13	WP 0094 00, BII, Item 1	1
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM TM 10-5419-206-23P	WP 0094 00, BII, Item 2	1

Once the site is established, the equipment and tools should be retrieved, inventoried, inspected and cleaned as necessary. Replace lost, damaged or unserviceable items. It is recommended that the site preparation equipment not needed for normal operation is secured in the TRICON and reissued as the need arises. For this purpose, the TRICON can be positioned in the administration area and its contents controlled by the host unit.



END OF WORK PACKAGE



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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS - ADMINISTRATION SUBSYSTEM**

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**GENERAL**

This WP contains operating procedures for the administration subsystem. Procedures for the operation of the administration subsystem in the MSCW Configuration is presented in WP 0038 00.

Before assembly and preparation for use of the administration subsystem, the FP module site selection, planning, preparation, and staking must be completed. TRICON 11B, 11C, 12E, and 12F must be staged as described in WP 0022 00.

The administration subsystem requires connection to a power source.

**SCOPE**

Assembly and preparation for use of the administration subsystem consists of the following:

- Unpacking and inventory of equipment in TRICON 12B, 12C, 12 E (Shared w/MWR) and 12F.
- Assembly and preparation for use of TEMPER and power equipment
- Connecting TEMPER power distribution box to PDISE
- Installation of ECUs (optional)
- Setting up administration equipment
- Placement of empty TRICON for use as storage containers (optional)

**UNPACKING AND INVENTORY**

TRICON 11B and 11C are not required to set up the administration subsystem. These TRICON contain System Support Packages (SSP), consisting of spare and repair parts. After the administration subsystem has been set up both TRICON should be opened, unpacked, and inventoried using Table 1 and 2 of this WP. Refer to SYSTEM SUPPORT PACKAGES in this WP for further information on the disposition of the SSP. Unpack and inventory the remaining administration subsystem components using Table 3 through 5.

**NOTE**

Some of the equipment shipped in administration subsystem containers is shared with the MWR subsystem. This includes items (noted) in TRICON 11B (Refer to Table 2) and the required number of ECUs shipped in TRICON 11C and 12E. Coordinate the unpacking and distribution of the administration subsystem equipment shipped in these TRICON with MWR subsystem personnel.

Administration subsystem equipment is packed in the following container types and quantities:

- One TRICON Type 11B (System Support Package Part A)
- One TRICON Type 11C (System Support Package Part B)
- One TRICON Type 12E (MWR/Administration ECU, (Contains MWR ECU)
- Three TRICON Type 12F (Administration tent kits)

Refer to WP 0038 00 for location and disposition of MSCW equipment to be used with the administration subsystem.

1. Open each container and check its contents against Tables 3 through 6, depending on the container type (the container type is stenciled on the container door as illustrated in WP 0021 00). Check contents of TRICON 11B and 11C against Table 1 and 2, respectively, after the administration subsystem has been set up.
2. Remove each item from the container and set it aside, but not in the area where a TEMPER or other equipment is to be positioned.
3. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.

**Table 1. Inventory List for System Support Kit, Part A TRICON 11B.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL	WP 0085 00, COEI, Item 9	3
<b>GENERAL PURPOSE SYSTEM SUPPORT ITEMS</b>		1
LEAD, ELECTRICAL, GROUNDING CABLE (PACKED IN 11C)	TM 10-5419-206-23P	0
SLIDE HAMMER, GROUND ROD	TM 10-5419-206-23P	2
BED, BUNKABLE, DISC-O	TM 10-5419-206-23P	6
FRAME, BED ENDS	TM 10-5419-206-23P	12
SIDE RAIL, SWAGED	TM 10-5419-206-23P	24
SIDE RAIL, UNSWAGED	TM 10-5419-206-23P	12
DISCS	TM 10-5419-206-23P	24
MAT, POLYPROPYLENE	TM 10-5419-206-23P	6
STACK ADAPTORS, EXTRA LONG	TM 10-5419-206-23P	12
TRANSPORT BAG, CANVAS	TM 10-5419-206-23P	6
STRAP, LOCKING	TM 10-5419-206-23P	6
SWITCH, MERCURY, FLOAT	TM 10-5419-206-23P	2
NOZZLE, GARDEN HOSE (PACKED IN 11C)	TM 10-5419-206-23P	0
POWER CABLE ASSEMBLY, TEE, 20A (PACKED IN 11C)	TM 10-5419-206-23P	0
LAMP INCANDESCENT 60 W	TM 10-5419-206-23P	24
EXTENSION CORD, 25 FT, 120V, GFCI (PACKED IN 11C)	TM 10-5419-206-23P	0
ABSORBENT MATERIAL, SPILL CLEANUP	TM 10-5419-206-23P	5
FUNNEL	TM 10-5419-206-23P	2
CHAIR, FOLDING, STEEL (PACKED IN 11C)	TM 10-5419-206-23P	0
ELECTRO-MECHANICAL PARTS SET	TM 10-5419-206-23P	1
LIGHT SET, FLUORESCENT (PACKED IN 11C)	TM 10-5419-206-23P	0
STRAP, WEBBING (PACKED IN 11C)	TM 10-5419-206-23P	0
LIGHT EXTENSION ASSEMBLY (PACKED IN 11C)	TM 10-5419-206-23P	0
CONTAINER ASSEMBLY, STORAGE (PACKED IN 11C)	TM 10-5419-206-23P	0
LAMP, FLUORESCENT (PACKED IN 11C)	TM 10-5419-206-23P	0
FUSEHOLDER, EXTRACTOR POST (PACKED IN 11C)	TM 10-5419-206-23P	0
LAMP, FLUORESCENT	TM 10-5419-206-23P	24
SPECIAL PURPOSE WEB, TIEDOWN (PACKED IN 11C)	TM 10-5419-206-23P	0
THERMOMETER, SELF-INDICATING LIQUID	TM 10-5419-206-23P	2
WRENCH, ADJ, 12 IN LONG, 1-5/16 IN JAW CAPACITY	TM 10-5419-206-23P	2
WRENCH, ADJ, 8 IN LONG, 15/16 IN JAW CAPACITY	TM 10-5419-206-23P	2
WRENCH, PIPE, 24 IN LONG, TYII, CLC	TM 10-5419-206-23P	2
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG (PACKED IN 11C)	TM 10-5419-206-23P	0

Table 1. Inventory List For System Support Kit, Part A TRICON 11B - Continued.

Subcomponent	Where Listed/Illustrated	Qty
FILTER ELEMENT FLUID	TM 10-5419-206-23P	10
ROPE, NYLON, 3/8 IN, 600 FT	TM 10-5419-206-23P	2
KIT, FAUCET WASHER	TM 10-5419-206-23P	2
REDUCER, QDISC, CAM-LOCK, 4 IN FC X 2 IN MC, AL (PACKED IN 11C)	TM 10-5419-206-23P	0
REDUCER, QDISC, CAM-LOCK, 2 IN FC X 1-1/2 IN MC, AL (PACKED IN 11C)	TM 10-5419-206-23P	0
DRUM, SHIPPING AND STORAGE, STEEL, 55-GALLON (PACKED IN 11C)	TM 10-5419-206-23P	0
<b>ELECTRICAL DISTRIBUTION SYSTEM, PDISE M40 (PART OF GP SSP) (PACKED IN 11C)</b>	TM 10-5419-206-23P	0
CABLE, PIGTAIL (PACKED IN 11C)	TM 10-5419-206-23P	0
CABLE, SERVICE FEEDER, 100 FT (PACKED IN 11C)	TM 10-5419-206-23P	0
CENTER, DISTRIBUTION (PACKED IN 11C)	TM 10-5419-206-23P	0
CABLE, EXTENSION, 50 FT, 20 AMP (PACKED IN 11C)	TM 10-5419-206-23P	0
CABLE, EXTENSION, 25 FT, 20 AMP (PACKED IN 11C)	TM 10-5419-206-23P	0
BOX, RECEPTACLE (PACKED IN 11C)	TM 10-5419-206-23P	0
STRAP, CABLE CARRYING (PACKED IN 11C)	TM 10-5419-206-23P	0
LIST, PACKING (PACKED IN 11C)	TM 10-5419-206-23P	0
CONTAINER, TRANSIT AND STORAGE (PACKED IN 11C)	TM 10-5419-206-23P	0
CABLE, LIGHT SET, 25 OUTLET (PACKED IN 11C)	TM 10-5419-206-23P	0
TECHNICAL MANUAL, PDISE, TM 9-6150-226-13 (PACKED IN 11C)	WP 0095, BII, Item 4	0
ROD, GROUND, SECTIONAL, TYPE III, CLASS B, WITH ATTACHMENTS (PACKED IN 11C)	TM 10-5419-206-23P	0
<b>TILT GRIDDLE SYSTEM SUPPORT PACKAGE (7310-00-758- 8564, LGAR-106) (FOR LEGION (35550) TILT GRIDDLE, MODEL: LGAR106-SP9)</b>	TM 10-5419-206-23P	1
FUSE 1A	TM 10-5419-206-23P	10
CONTACTOR	TM 10-5419-206-23P	1
PILOT LIGHT, RED	TM 10-5419-206-23P	1
PILOT LIGHT, AMBER	TM 10-5419-206-23P	1
THERMOSTAT, PRIME CONTROL	TM 10-5419-206-23P	1
KNOB, THERMOSTAT	TM 10-5419-206-23P	1
THERMOSTAT HI-LIMIT	TM 10-5419-206-23P	1
TOGGLE SWITCH	TM 10-5419-206-23P	1
HEATER STRIP	TM 10-5419-206-23P	6
<b>TENT SYSTEM SUPPORT PACKAGE (MIL-T-44271)</b>	TM 10-5419-206-23P	1
STAND, DISTRIBUTION BOX, TEMPER	TM 10-5419-206-23P	2
PIN, TENT, WOOD, 24 IN (PACKED IN 11C)	TM 10-5419-206-23P	0
PIN, TENT, STEEL, 18 IN	TM 10-5419-206-23P	200
RIDGE EXTENDER ASSEMBLY	TM 10-5419-206-23P	10
EAVE EXTENDER ASSEMBLY	TM 10-5419-206-23P	10
PLENUM, END WALL, 16 FT, TEMPER (PACKED IN 11C)	TM 10-5419-206-23P	0
STRAP, WEBBING	TM 10-5419-206-23P	20
PIN, QUICK RELEASE W/LANYARD	TM 10-5419-206-23P	50
<b>REPAIR KIT TENTAGE (PACKED IN 11C)</b>	FM 10-16	0
PALM SEWING (PACKED IN 11C)	FM 10-16	0
SLIP TENT LINE (PACKED IN 11C)	FM 10-16	0
CLOTH DUCK COTTON 2-PLY W F 36 (PACKED IN 11C)	FM 10-16	0
MALLET RAWHIDE (PACKED IN 11C)	FM 10-16	0
TWYNE COTTON (PACKED IN 11C)	FM 10-16	0

Table 1. Inventory List For System Support Kit, Part A TRICON 11B - Continued.

Subcomponent	Where Listed/Illustrated	Qty
BRUSH, WIRE, SCRATCH (PACKED IN 11C)	FM 10-16	0
FM GENERAL REPAIR FOR TENTS (PACKED IN 11C)	FM 10-16	0
AWL, SADDLER'S SEWING (PACKED IN 11C)	FM 10-16	0
NEEDLE SAILMAKERS, SIZE 14 (PACKED IN 11C)	FM 10-16	0
PUNCH CUTTING SIZE 5 (PACKED IN 11C)	FM 10-16	0
PUNCH CUTTING SIZE 7 (PACKED IN 11C)	FM 10-16	0
SHEARS, BENT TRIMMERS (PACKED IN 11C)	FM 10-16	0
ADHESIVE (PACKED IN 11C)	FM 10-16	0
GROMMET METALLIC 0.320 IN BARREL (PACKED IN 11C)	FM 10-16	0
GROMMET METALLIC 0.380 IN BARREL (PACKED IN 11C)	FM 10-16	0
PUNCH AND DIE, GROMMET, SIZE 4 (PACKED IN 11C)	FM 10-16	0
PUNCH AND DIE, GROMMET, SIZE 5 (PACKED IN 11C)	FM 10-16	0
RING, CONNECTING, ROUND, 1/2 IN (PACKED IN 11C)	FM 10-16	0
RING, CONNECTING, ROUND, 3/4 IN (PACKED IN 11C)	FM 10-16	0
RING, CONNECTING, ROUND, 1 IN (PACKED IN 11C)	FM 10-16	0
SLING, CARRYING, BAG AND CASE (PACKED IN 11C)	FM 10-16	0
THREAD, POLYESTER (PACKED IN 11C)	FM 10-16	0
LUBRICANT, ZIPPER (PACKED IN 11C)	FM 10-16	0
CASE, TENT REPAIR KIT (PACKED IN 11C)	FM 10-16	0
<b>STEAM TABLE SYSTEM SUPPORT PACKAGE (STE-EE2) (FOR BAYONNE STAINLESS PRODUCTS (55392) STEAM TABLE, MODEL: STE-E2)</b>	TM 10-5419-206-23P	1
THERMOSTAT	TM 10-5419-206-23P	1
LOW WATER CUT-OFF	TM 10-5419-206-23P	2
HEATER	TM 10-5419-206-23P	2
<b>STEAM KETTLE, 6 GAL SYSTEM SUPPORT PACKAGE (VEC6) (FOR VULCAN HART (89564) STEAM KETTLE, MODEL: VEC6 (208V))</b>	TM 10-5419-206-23P	1
POTENTIOMETER, REMOTE	TM 10-5419-206-23P	1
VALVE, RELIEF (50PSI)	TM 10-5419-206-23P	1
LIQUID LEVEL CONTROL	TM 10-5419-206-23P	1
GASKET, ELEMENT	TM 10-5419-206-23P	1
SWITCH, POWER, STEAM KETTLE	TM 10-5419-206-23P	1
SWITCH, INTERLOCK	TM 10-5419-206-23P	1
CONTACTOR	TM 10-5419-206-23P	1
PROBE	TM 10-5419-206-23P	1
CONTROLLER, TEMPERATURE	TM 10-5419-206-23P	1
SENSOR, TEMPERATURE	TM 10-5419-206-23P	1
<b>STEAM KETTLE, 20 GAL SYSTEM SUPPORT PACKAGE (7310-01-364-6312, EE20) (FOR GROEN (26465) STEAM KETTLE, MODEL: EE-20 (208V), 7310-01-364-6312)</b>	TM 10-5419-206-23P	1
FUSE, 3 AMP, 208V	TM 10-5419-206-23P	5
PILOT LIGHT	TM 10-5419-206-23P	5
ELEMENT HEATER, 208V	TM 10-5419-206-23P	5
THERMOSTAT	TM 10-5419-206-23P	5
CONTACTOR, MAGNETIC	TM 10-5419-206-23P	10
<b>REEFER BOX SYSTEM SUPPORT PACKAGE (4110-01-166-3579)</b>	TM 10-5419-206-23P	1
STRIKE CATCH CLAMP, 600CFT REEFER BOX	TM 10-5419-206-23P	15



Table 1. Inventory List For System Support Kit, Part A TRICON 11B – Continued.

Subcomponent	Where Listed/Illustrated	Qty
<b>POWER GENERATION EQUIPMENT AND ELECTRICAL SUPPORT PACKAGE</b>	TM 10-5419-206-23P	1
INTERRUPTER, GROUND FAULT	TM 10-5419-206-23P	4
CIRCUIT BREAKER, 20 AMP, SINGLE POLE, HYD. MAG.	TM 10-5419-206-23P	5
CIRCUIT BREAKER, 100 AMP, 3 POLE, HYD. MAG	TM 10-5419-206-23P	5
CIRCUIT BREAKER, 60 AMP, 3 POLE, HYD. MAG	TM 10-5419-206-23P	5
CIRCUIT BREAKER, 40 AMP, 3 POLE, HYD. MAG	TM 10-5419-206-23P	5
CONNECTOR PLUG L21-20P	TM 10-5419-206-23P	4
RECEPTACLE, L21-20R / CONNECTOR, PLUG, ELECTRICAL	TM 10-5419-206-23P	4
RECEPTACLE, 5-15R	TM 10-5419-206-23P	2
WATER PROOF BOOT, SMALL, SHIELD ELECTRICAL CONNECTOR	TM 10-5419-206-23P	2
WATERPROOF BOOT, LARGE BOOT, DUST AND MOISTURE SEAL	TM 10-5419-206-23P	2
WATER PROOF COVER, SMALL, SHIELD ELECTRICAL CONNECTOR	TM 10-5419-206-23P	6
WATER PROOF COVER, LARGE, SHIELD ELECTRICAL CONNECTOR	TM 10-5419-206-23P	6
POWER CABLE, CLASS L TO COMMERCIAL, 20 AMP	TM 10-5419-206-23P	5
EXTENSION CORD, 25 FT, 120V, GFCI	TM 10-5419-206-23P	10
COVER, ELECTRICAL SWITCH	TM 10-5419-206-23P	4
FUSE, CARTRIDGE	TM 10-5419-206-23P	100
PLUG, 5-15P	TM 10-5419-206-23P	2
CONNECTOR, PLUG, ELECTRICAL, L21-30P	TM 10-5419-206-23P	2
<b>MEAT SLICER SYSTEM SUPPORT PACKAGE (7320-01-454-0871, GS250A)</b>	TM 10-5419-206-23P	1
SWITCH, TOGGLE	TM 10-5419-206-23P	1
CAPACITOR, 18MF, 400V	TM 10-5419-206-23P	2
RUBBER BOOT, SWITCH, TOGGLE	TM 10-5419-206-23P	1
BELT, TB8-360	TM 10-5419-206-23P	2
REGULATOR CAM	TM 10-5419-206-23P	1
CARRIAGE ASSEMBLY, PLATFORM	TM 10-5419-206-23P	1
PULLEY ASSEMBLY, KNIFE	TM 10-5419-206-23P	1
<b>M80 WATER HEATER SYSTEM SUPPORT PACKAGE (4520-01-162-0385)</b>	TM 10-5419-206-23P	1
STARTER, MOTOR	TM 10-5419-206-23P	2
PHOTOELECTRIC CELL	TM 10-5419-206-23P	4
FIRE EYE TESTER	TM 10-5419-206-23P	2
TRANSFORMER POWER	TM 10-5419-206-23P	2
RELAY, ELECTROMAGNETIC, 115V	TM 10-5419-206-23P	2
CONTROL, TEMPERATURE	TM 10-5419-206-23P	2
HOLDER, ELECTRODE	TM 10-5419-206-23P	1
ELECTRODE SET	TM 10-5419-206-23P	10
CONTROL INDICATOR	TM 10-5419-206-23P	4
CIRCUIT CARD ASSEMBLY	TM 10-5419-206-23P	4
CONTROL, FLAME SAFEGUARD	TM 10-5419-206-23P	4
HEATER ELEMENT	TM 10-5419-206-23P	2
<b>KECO ECU, SYSTEM SUPPORT PACKAGE (4120-01-432-6408)</b>	TM 10-5419-206-23P	1
VALVE PRESSURE RELIEF	TM 10-5419-206-23P	4
VALVE CHARGING	TM 10-5419-206-23P	2
SWITCH, HIGH TEMPERATURE	TM 10-5419-206-23P	6
MOTOR, CONDENSER	TM 10-5419-206-23P	4

Table 1. Inventory List For System Support Kit, Part A TRICON 11B - Continued.

Subcomponent	Where Listed/Illustrated	Qty
MOTOR, EVAPORATOR	TM 10-5419-206-23P	4
COMPRESSOR	TM 10-5419-206-23P	12
DUCT, FLEXIBLE – 7 FT	TM 10-5419-206-23P	2
DUCT, FLEXIBLE – 9 FT	TM 10-5419-206-23P	2
DEHYDRATOR	TM 10-5419-206-23P	12
ELEMENT HEATING	TM 10-5419-206-23P	12
CIRCUIT BREAKER	TM 10-5419-206-23P	6
KNOB, ECU	TM 10-5419-206-23P	8
SWITCH, ROTARY	TM 10-5419-206-23P	6
SWITCH, THERMOSTATIC	TM 10-5419-206-23P	6
FILTER AIR	TM 10-5419-206-23P	6
PULLEY BUSHING (50HZ OPERATION)	TM 10-5419-206-23P	6
PULLEY GROOVED	TM 10-5419-206-23P	6
RELAY, TIME DELAY	TM 10-5419-206-23P	6
SWITCH, HIGH PRESSURE	TM 10-5419-206-23P	2
RELAY, 3PDT	TM 10-5419-206-23P	6
RELAY, ELECTROMAGNETIC, 240V	TM 10-5419-206-23P	12
RELAY, 3PST	TM 10-5419-206-23P	18
DEBRIS SCREEN, AIR CONDITIONER DUCT	TM 10-5419-206-23P	10
FUSE PLUG, 362F	TM 10-5419-206-23P	4
V BELT	TM 10-5419-206-23P	30
BEARINGS, EVAPORATOR FAN	TM 10-5419-206-23P	6
<b>GRIDDLE SYSTEM SUPPORT PACKAGE (HEG-48D)</b>	TM 10-5419-206-23P	1
THERMOSTAT, GRIDDLE	TM 10-5419-206-23P	2
ELEMENT, 240V, 8KW	TM 10-5419-206-23P	2
HEATING ELEMENT, 208V	TM 10-5419-206-23P	2
KNOB, THERMOSTAT, GRIDDLE	TM 10-5419-206-23P	2
LIGHT, INDICATOR, GRIDDLE	TM 10-5419-206-23P	2
<b>ELECTRIC OVEN, SYSTEM SUPPORT PACKAGE (7310-01-420-6851, ECO6D)</b>	TM 10-5419-206-23P	1
SWITCH, TOGGLE, SPST	TM 10-5419-206-23P	2
SWITCH, TOGGLE, DPST	TM 10-5419-206-23P	2
SWITCH, TOGGLE, DPDT	TM 10-5419-206-23P	2
SWITCH, DOOR	TM 10-5419-206-23P	2
COIL ASSEMBLY, 208V	TM 10-5419-206-23P	1
HI LIMIT ASSEMBLY	TM 10-5419-206-23P	2
RELAY, MERCURY	TM 10-5419-206-23P	2
SHIM, DOOR STRIKE	TM 10-5419-206-23P	4
MOTOR, 1/3 HP, 2 SPEED, ALTERNATING CURRENT	TM 10-5419-206-23P	1
DOOR STRIKE	TM 10-5419-206-23P	4
CONTACTOR, 3-POLE	TM 10-5419-206-23P	2
BUZZER (230 VOLT)	TM 10-5419-206-23P	1
THERMOSTAT	TM 10-5419-206-23P	2
TIMER (200-240V)	TM 10-5419-206-23P	2
CATCH, DOOR	TM 10-5419-206-23P	2
FAN, COOLING	TM 10-5419-206-23P	1
FUSE, 15 AMP, 300V	TM 10-5419-206-23P	5
<b>COFFEE URN SYSTEM SUPPORT PACKAGE (7310-01-374-5832, 7416E)</b>	TM 10-5419-206-23P	1
THERMOSTAT, COFFEE URN	TM 10-5419-206-23P	1

Table 1. Inventory List For System Support Kit, Part A TRICON 11B - Continued.

Subcomponent	Where Listed/Illustrated	Qty
<b>BEVERAGE DISPENSER, MECHANICAL, SYSTEM SUPPORT PACKAGE (7310-01-386-5951, D25-4)</b>	TM 10-5419-206-23P	1
PACKING, PREFORMED, O-RING	TM 10-5419-206-23P	8
GASKET, BOWL, STANDARD	TM 10-5419-206-23P	8
IMPELLER, BOWL, STANDARD	TM 10-5419-206-23P	2
SPRAY TUBE, 5 GALLON BOWL	TM 10-5419-206-23P	4
MOTOR, PUMP	TM 10-5419-206-23P	1
BEARING SLEEVE	TM 10-5419-206-23P	4
<b>125 GMP SYSTEM SUPPORT PACKAGE (4320-01-357-1930)</b>	TM 10-5419-206-23P	1
ROCKER ARM, ENGINE POPPET VALVE	TM 10-5419-206-23P	1
GASKET	TM 10-5419-206-23P	1
FILTER, FUEL	TM 10-5419-206-23P	4
FILTER, FUEL	TM 10-5419-206-23P	4
GASKET, PACKING	TM 10-5419-206-23P	1
COCK, SHUTOFF SCREW STEM	TM 10-5419-206-23P	1
FILTER INTAKE ELEMENT AIR CLEANER	TM 10-5419-206-23P	5
IMPELLER, PUMP, CENTRIFUGAL	TM 10-5419-206-23P	1
GASKET	TM 10-5419-206-23P	1
PLATE WEAR, ROTARY, PUMP	TM 10-5419-206-23P	1
O-RING	TM 10-5419-206-23P	1
GASKET AND SEAL SET	TM 10-5419-206-23P	1
MOUNT, VIBRATION RESISTANT	TM 10-5419-206-23P	4
O-RING	TM 10-5419-206-23P	1
NUT, PLAIN, HEXAGON	TM 10-5419-206-23P	4
WASHER FLAT	TM 10-5419-206-23P	4
SCREW CAP, HEX HEAD	TM 10-5419-206-23P	4
INDICATOR, PRESSURE	TM 10-5419-206-23P	1
<b>10K REEFER UNIT SYSTEM SUPPORT PACKAGE (4110-00-287-3184)</b>	TM 10-5419-206-23P	1
BELT V	TM 10-5419-206-23P	2
BELT V	TM 10-5419-206-23P	2
BELT TIGHTENER	TM 10-5419-206-23P	1
BELT V	TM 10-5419-206-23P	2
FUSE CARTRIDGE	TM 10-5419-206-23P	10
FUSE CARTRIDGE	TM 10-5419-206-23P	5
FUSE CARTRIDGE	TM 10-5419-206-23P	5
FILTER-DRIER REFRIGERANT, 1/2 FLARE CONNECTION	TM 10-5419-206-23P	2
<b>SYSTEM SUPPORT PACKAGE FOR WASTE WATER EVACUATION SYSTEM</b>	TM 10-5419-206-23P	1
SWITCH, FLOAT, 13 AMP, 120 VAC, 85 DEGREE ACTION	TM 10-5419-206-23P	3
FITTING, BULKHEAD, 2 IN W/GASKET	TM 10-5419-206-23P	3
FITTING, BULKHEAD, 3 IN W/GASKET	TM 10-5419-206-23P	2
VALVE, BALL, POLYPROPYLENE, 2 IN	TM 10-5419-206-23P	2
HEATER, TANK, 1500 WATT, 120 VAC, MODEL 521G	TM 10-5419-206-23P	3
CLAMP, HOSE, LOW PRESSURE, TYPE F, SAE #72	TM 10-5419-206-23P	10
PUMP, SEWAGE, SUBMERSIBLE, 1/2 HP, 230 VAC, 3 PHASE	TM 10-5419-206-23P	3
CONTACTOR, A9, 220 VAC	TM 10-5419-206-23P	5
CIRCUIT BREAKER, 15 AMP, 240 VAC, 3 PHASE	TM 10-5419-206-23P	5
RELAY, OVERLOAD, 3.5 - 5.0 A, TA25	TM 10-5419-206-23P	5
SWITCH, 3 POSITION, TW	TM 10-5419-206-23P	5
LIGHT, PILOT, GREEN, 230 VAC	TM 10-5419-206-23P	5

Table 2. Inventory List for System Support Kit, Part B, TRICON 11C.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
SPECIAL PURPOSE WEB, TIEDOWN (LISTED IN 11B) (PART OF GP SSP)	WP 0085 00, COEI, Item 13	25
CONTAINER, REUSABLE, BULK EQUIPMENT, HALF SIZE	WP 0085 00, COEI, Item 7	2
<b>WATER DISTRIBUTION AND PLUMBING SSP</b>	TM 10-5419-206-23P	1
METERING PUMP	TM 10-5419-206-23P	1
WATER MANIFOLD	TM 10-5419-206-23P	1
GASKET, FLANGE 4 IN	TM 10-5419-206-23P	10
VALVE GATE FLANGE 4 IN	TM 10-5419-206-23P	2
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN X 20 FT, F X M, DRAIN LINE	TM 10-5419-206-23P	4
HOSE ASSEMBLY, QDISC, CAM-LOCK, 4 IN X 20 FT, SUCTION, POTABLE WATER	TM 10-5419-206-23P	4
TEE STRAIGHT 1-1/2 IN	TM 10-5419-206-23P	1
NIPPLE, CLOSE 1-1/2 IN	TM 10-5419-206-23P	2
SPARE PARTS KIT, HYPOCHLORINATOR	TM 10-5419-206-23P	2
CLAMP, HOSE, LOW PRESSURE, TYPE F, SAE #20	TM 10-5419-206-23P	20
CLAMP, HOSE, LOW PRESSURE, TYPE F, SAE #40	TM 10-5419-206-23P	20
CLAMP, HOSE, LOW PRESSURE, TYPE F, SAE #64	TM 10-5419-206-23P	20
CLAMP, HOSE, LOW PRESSURE, TYPE F, SAE #10	TM 10-5419-206-23P	20
VALVE ANGLE	TM 10-5419-206-23P	5
BOILER DRAIN COCK SPEC CONT DRWG	TM 10-5419-206-23P	1
HYPOCHLORINATOR CONVERSION PLATE	TM 10-5419-206-23P	1
VALVE GATE THREADED 1-1/2 IN	TM 10-5419-206-23P	2
BALL VALVE 1/4 IN	TM 10-5419-206-23P	2
PRESSURE SWITCH	TM 10-5419-206-23P	2
HOSE ASSEMBLY, NONMETALLIC, GARDEN	TM 10-5419-206-23P	5
COUPLING HALF, Q-DISC, CAM LOCK, MALE, IPT TYPE I, 1/2 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, MALE, IPT TYPE I, 3/4 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, MALE, IPT TYPE I, 1 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, MALE, IPT TYPE I, 1-1/4 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, MALE, IPT TYPE I, 1-1/2 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, MALE, HOSE SHANK, TYPE II, 1/2 IN, BRASS	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, MALE, HOSE SHANK, TYPE II, 3/4 IN AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, MALE, HOSE SHANK, TYPE II, 1 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, MALE, HOSE SHANK, TYPE II, 1-1/4 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, MALE, HOSE SHANK, TYPE II, 1-1/2 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, MALE, EPT TYPE III, 1/2 IN, AL	TM 10-5419-206-23P	4

Table 2. Inventory List for System Support Kit, Part B, TRICON 11C – Continued.

Subcomponent	Where Listed/Illustrated	Qty
COUPLING HALF, Q-DISC, CAM LOCK, MALE, EPT TYPE III, ¾ IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, MALE, EPT TYPE III, 1 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, MALE, EPT TYPE III, 1-1/4 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, MALE, EPT TYPE III, 1-1/2 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, IPT, TYPE V, ½ IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, IPT, TYPE V, ¾ IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, IPT, TYPE V, 1 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, IPT, TYPE V, 1-1/4 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, IPT, TYPE V, 1-1/2 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, HOSE SHANK, TYPE VI, ½ IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, HOSE SHANK, TYPE VI, ¾ IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, HOSE SHANK, TYPE VI, 1 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, HOSE SHANK, TYPE VI, 1-1/4 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, FEMALE, HOSE SHANK, TYPE VI, 1-1/2 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, EPT, TYPE VII, ½ IN, AL	TM 10-5419-206-23P	6
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, EPT, TYPE VII, ¾ IN, AL	TM 10-5419-206-23P	6
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, EPT, TYPE VII, 1 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, EPT, TYPE VII, 1-1/4 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, QDISC, CAM-LOCK, FEMALE, EPT, TYPE VII, 1-1/2 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, 2-1/2 IN, AL	TM 10-5419-206-23P	2
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, ½ IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, ¾ IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, 1 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, 1-1/4 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, CAP, TYPE IX, 1-1/2 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, PLUG, TYPE X, ½ IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, PLUG, TYPE X, 2-1/2, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, PLUG, TYPE X, 4 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, PLUG, TYPE X, 3/4 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, PLUG, TYPE X, 1-1/4 IN, AL	TM 10-5419-206-23P	4
COUPLING HALF, Q-DISC, CAM LOCK, PLUG, TYPE X, 1-1/2 IN, AL	TM 10-5419-206-23P	4

Table 2. Inventory List for System Support Kit, Part B, TRICON 11C – Continued.

Subcomponent	Where Listed/Illustrated	Qty
GASKET, COUPLING HALF, QDISC, CAM-LOCK, 1/2 IN	TM 10-5419-206-23P	12
GASKET, COUPLING HALF, QDISC, CAM-LOCK, 3/4 IN	TM 10-5419-206-23P	12
GASKET, COUPLING HALF, QDISC, CAM-LOCK, 1 IN	TM 10-5419-206-23P	12
GASKET, COUPLING HALF, QDISC, CAM-LOCK, 1-1/4 IN	TM 10-5419-206-23P	12
GASKET, COUPLING HALF, QDISC, CAM-LOCK, 1-1/2 IN	TM 10-5419-206-23P	24
GASKET, COUPLING HALF, QDISC, CAM-LOCK, 2 IN	TM 10-5419-206-23P	12
GASKET, COUPLING HALF, QDISC, CAM-LOCK, 2-1/2 IN	TM 10-5419-206-23P	12
GASKET, COUPLING HALF, QDIS, CAM LOCK, 4 IN	TM 10-5419-206-23P	12
CLAMP, HOSE, LOW PRESSURE, TYPE F, SAE #24	TM 10-5419-206-23P	30
REDUCER, QDISC, CAM LOCK, 2 IN MC X 1-1/2 IN FC, AL	TM 10-5419-206-23P	2
REDUCER, QDISC, CAM-LOCK, 2 IN FC X 4 IN MC, AL	TM 10-5419-206-23P	2
REDUCER, QDISC, CAM-LOCK, 2 IN FC X 1-1/2 IN MC, AL	TM 10-5419-206-23P	4
NIPPLE, BRASS 1/4 IN X 2 IN LONG	TM 10-5419-206-23P	2
VALVE, CHECK 1-1/2 IN	TM 10-5419-206-23P	2
<b>CONTAINERIZED BATCH LAUNDRY SSP (9-1-0820)</b>	TM 10-5419-206-23P	1
SCREEN, LINT	TM 10-5419-206-23P	2
VALVE, FILL, COLD/HOT WATER, 2 WAY, 220V	TM 10-5419-206-23P	1
DOOR HANDLE STOP	TM 10-5419-206-23P	1
DOOR HANDLE	TM 10-5419-206-23P	1
V-BELT, BASKET/MOTOR	TM 10-5419-206-23P	2
RESISTOR, SUPPLY INLET FLOW, 3.5L/MIN	TM 10-5419-206-23P	1
VALVE, MAIN SEWER DRAIN	TM 10-5419-206-23P	1
VALVE, REUSE FILL/DRAIN, 2 IN, NC, 0.18A, J-LIP, 220V	TM 10-5419-206-23P	1
VALVE, INLET, SUPPLY, 3 WAY 240V, 50/60 HZ	TM 10-5419-206-23P	1
V-BELT, CYLINDER	TM 10-5419-206-23P	2
V-BELT, DRIVE	TM 10-5419-206-23P	1
FUSE, 250V, 2A	TM 10-5419-206-23P	2
FUSE, 1.25A	TM 10-5419-206-23P	2
FUSE, 3.5A	TM 10-5419-206-23P	2
<b>REPAIR KIT TENTAGE (PART OF TENT SSP)</b> (LISTED IN 11B)	FM 10-16	4
PALM, SEWING	FM 10-16	4
SLIP, TENT LINE	FM 10-16	40
CLOTH, DUCK, COTTON, 2 PLY, WF 36	FM 10-16	32
MALLET, RAWHIDE	FM 10-16	4
TWYNE, COTTON	FM 10-16	4
BRUSH, WIRE, SCRATCH	FM 10-16	4
FM GENERAL REPAIR FOR TENTS	FM 10-16	4
AWL, SADDLERS, SEWING	FM 10-16	4
NEEDLE, SAILMAKERS, SIZE 14	FM 10-16	4
PUNCH, CUTTING, SIZE 7	FM 10-16	4
PUNCH, CUTTING, SIZE 5	FM 10-16	4
SHEARS, BENT TRIMMERS	FM 10-16	4
ADHESIVE	FM 10-16	32
GROMMET, METALLIC, 0.320 IN BARREL	FM 10-16	4
GROMMET, METALLIC, 0.380 IN BARREL	FM 10-16	4
PUNCH AND DIE, GROMMET, SIZE 4	FM 10-16	4
PUNCH AND DIE, GROMMET, SIZE 5	FM 10-16	4
RING, CONNECTING, ROUND, 1/2 IN	FM 10-16	200
RING, CONNECTING, ROUND, 3/4 IN	FM 10-16	100
RING, CONNECTING, ROUND, 1 IN	FM 10-16	40
SLING, CARRYING, BAG AND CASE	FM 10-16	4

Table 2. Inventory List for System Support Kit, Part B, TRICON 11C – Continued.

Subcomponent	Where Listed/Illustrated	Qty
THREAD, POLYESTER	FM 10-16	4
LUBRICANT, ZIPPER	FM 10-16	4
CASE, TENT REPAIR KIT	FM 10-16	4
<b>ELECTRICAL DISTRIBUTION SYSTEM, PDISE M40</b>	WP 0095 00, COEI, Item 23	4
CABLE, PIGTAIL, 60 A, 4 FT LONG	TM 9-6150-226-13	4
CABLE, SERVICE FEEDER, 100 FT	TM 9-6150-226-13	4
CENTER, DISTRIBUTION	TM 9-6150-226-13	4
CABLE, EXTENSION, 50 FT, 20 AMP	TM 9-6150-226-13	12
CABLE, EXTENSION, 25 FT, 20 AMP	TM 9-6150-226-13	12
BOX, RECEPTACLE	TM 9-6150-226-13	4
STRAP, CABLE CARRYING	TM 9-6150-226-13	64
LIST, PACKING	TM 9-6150-226-13	4
CONTAINER, TRANSIT AND STORAGE	TM 9-6150-226-13	4
CABLE, LIGHT SET, 25 OUTLET	TM 9-6150-226-13	8
TECHNICAL MANUAL, PDISE TM 9-6150-226-13	WP 0095 00, BII, Item 4	4
<b>REMAINING SYSTEM SUPPORT KIT, Part B, ITEMS</b>		
ROD, GROUND, SECTIONAL, TYPE III, CLASS B, WITH ATTACHMENTS	WP 0095 00, COEI, Item 53	48
REDUCER, QDISC, CAM-LOCK, 4 IN FC X 2 IN MC, AL (PART OF GP SSP) (LISTED IN 11B)	WP 0095 00, COEI, Item 47	4
REDUCER, QDISC, CAM-LOCK, 2 IN FC X 1-1/2 IN MC, AL (PART OF GP SSP) (LISTED IN 11B)	WP 0095 00, COEI, Item 46	4
DRUM, SHIPPING AND STORAGE, STEEL, 55-GALLON (PART OF GP SSP) (LISTED IN 11B)	WP 0095 00, COEI, Item 21	5
CHAIR, FOLDING, STEEL (LISTED IN 11B)	WP 0095 00, COEI, Item 9	5
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG (PART OF GP SSP) (LISTED IN 11B)	WP 0095 00, COEI, Item 8	13
LEAD, ELECTRICAL, GROUNDING CABLE (LISTED IN 11B) (PART OF GP SSP)	WP 0095 00, COEI, Item 32	9
PIN, TENT, WOOD, 24 IN (LISTED IN 11B) (PART OF TENT SSP)	WP 0095 00, COEI, Item 40	110
PLENUM, END WALL, 16 FT, TEMPER (LISTED IN 11B) (PART OF TENT SSP)	WP 0095 00, COEI, Item 42	7
NOZZLE, GARDEN HOSE (LISTED IN 11B) (PART OF GP SSP)	WP 0095 00, COEI, Item 38	1
POWER CABLE ASSEMBLY, TEE, 20A (LISTED IN 11B) (PART OF GP SSP)	WP 0095 00, COEI, Item 44	3
EXTENSION CORD, 25 FT, 120V, GFCI (LISTED IN 11B) (PART OF GP SSP)	WP 0095 00, COEI, Item 23	11

Table 3. Inventory List for Medical ECU Kit TRICON 12E.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	4
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
<b>AIR CONDITIONER, 54 K BTUH, 208V, 3 PHASE, 50/60 HZ, HORIZONTAL</b>	WP 0095 00, COEI, Item 4	2
COVER, DUCT	TM 10-5419-206-23P	4
DUCT HOLDER - 7 FT	TM 10-5419-206-23P	2
DUCT HOLDER - 9 FT	TM 10-5419-206-23P	2
HOSE ADAPTER, DRAIN	TM 10-5419-206-23P	4
TUBING, SILICONE, 15 FT	TM 10-5419-206-23P	4
DEBRIS SCREEN, AIR CONDITIONER DUCT	WP 0095, COEI, Item 15	2
TECHNICAL MANUAL, AIR CONDITIONER, 54,000 BTU/HR TM 9-4120-411-14 OR TM 9-4120-398-14	WP 0095 00, BII, Item 5	2
<b>ELECTRICAL FEEDER SYSTEM, PDISE M100</b>	WP 0095 00, COEI Item 23	1
STRAP, CABLE CARRYING	TM 9-6150-226-13	8
CABLE, PIGTAIL, 100A, 4 FT LONG	TM 9-6150-226-13	1
CABLE ASSEMBLY, SERVICE, 100A, 50 FT LONG	TM 9-6150-226-13	2
ELECTRICAL FEEDER CENTER, 100A	TM 9-6150-226-13	1
TECHNICAL MANUAL, PDISE TM 9-6150-226-13	WP 0095 00, BII Item 4	1
<b>REMAINING MEDICAL ECU KIT ITEMS</b>		
FLOOR MAT, ALTERED ITEM	WP 0095, COEI, Item 27	1
WRINGER, MOP, SIZE-SMALL, TYPE-GEAR & RACK	WP 0095, COEI, Item 63	1
BUCKET, MOP, STEEL, OVAL, 16 QUART, W/ CASTERS	WP 0095, COEI, Item 7	1
TRUNK, LOCKER (FOR USE WITH BILLETING SUBSYSTEM)	WP 0095, COEI, Item 66	10
DUCT, FLEXIBLE - 7 FT	TM 10-5419-206-23P	2
DUCT, FLEXIBLE - 9 FT	TM 10-5419-206-23P	2
PULLEY BUSHING (50HZ OPERATION)	TM 10-5419-206-23P	2
PULLEY (50HZ OPERATION)	TM 10-5419-206-23P	2
CHAIR, FOLDING, STEEL	WP 0095, COEI, Item 9	14
SHOVEL, ROUND POINT, D HANDLE	WP 0095, COEI, Item 49	1
BROOM, UPRIGHT	WP 0095, COEI, Item 6	1
MOP HANDLE	WP 0095, COEI, Item 36	1
MOP HEAD	WP 0095, COEI, Item 37	1
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM TM 10-5419-206-13	WP 0095 00, BII Item 2	1
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM TM 10-5419-206-23P	WP 0095 00, BII Item 2	1



Table 4. Inventory List for Administration Tent Kit TRICON 12F.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	4
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	8
<b>TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V</b>	WP 0095 00, COEI, Item 56	2
CABLE ASSEMBLY OUTLET TYPE III, 156 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY OUTLET TYPE III, 254 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY LIGHT TYPE III AND IV, 103 IN	TM 10-8340-224-13	2
CABLE ASSEMBLY LIGHT TYPE III AND IV, 173 IN	TM 10-8340-224-13	2
STAND, DISTRIBUTION BOX, TEMPER	TM 10-8340-224-13	2
<b>LIGHT SET, FLUORESCENT</b>	WP 0095 00, COEI, Item 26	4
STRAP, WEBBING	TM 10-8340-224-13	16
LIGHT EXTENSION ASSEMBLY	TM 10-8340-224-13	16
CONTAINER ASSEMBLY, STORAGE	TM 10-8340-224-13	4
LAMP, FLUORESCENT	TM 10-8340-224-13	4
FUSE HOLDER, EXTRACTOR POST	TM 10-8340-224-13	4
<b>TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE IV, 32 FT, GREEN</b>	WP 0095 00, COEI, Item 60	2
PIN, TENT, WOOD, 24 IN	TM 10-8340-224-13	50
PIN, TENT, STEEL, 18 IN	TM 10-8340-224-13	120
FRAME, END SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	4
PURLIN ASSEMBLY	TM 10-8340-224-13	10
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	8
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	4
FRAME, WINDOW SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	6
HEADER ASSEMBLY	TM 10-8340-224-13	6
PURLIN ASSEMBLY	TM 10-8340-224-13	30
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	6
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	12
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	6
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	6
FRAME ASSEMBLY, VESTIBULE, TEMPER	TM 10-8340-224-13	6
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	24
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	6
END SECTION, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	8
LINE, TENT	TM 10-8340-224-13	8
FLY, TENT, 16 FT, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	24
LINE, TENT	TM 10-8340-224-13	24
COVER, TENT, TEMPER	TM 10-8340-224-13	8
WINDOW SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	8
SLIP, TENT LINE	TM 10-8340-224-13	32
LINE, TENT	TM 10-8340-224-13	32
LINER, END SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	4
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	4
FLOOR, 8 FT, SINGLE PLY, TEMPER	TM 10-8340-224-13	8
VESTIBULE WITH DOOR, TEMPER	TM 10-8340-224-13	2

Table 4. Inventory List for Administration Tent Kit TRICON 12F – Continued.

Subcomponent	Where Listed/Illustrated	Qty
SLIP, TENT LINE	TM 10-8340-224-13	8
VESTIBULE TENT SECTION	TM 10-8340-224-13	2
LINE, TENT	TM 10-8340-224-13	8
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	2
FLOOR, VESTIBULE, SINGLE PLY, TEMPER	TM 10-8340-224-13	2
CONTAINER, VESTIBULE, TEMPER	TM 10-8340-224-13	2
PARTITION, TEMPER	TM 10-8340-224-13	6
PLENUM, EXTENDABLE, 16 FT, TEMPER	TM 10-8340-224-13	2
PLENUM, ENTRANCE 16 FT, TEMPER	TM 10-8340-224-13	2
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0095 00, BII, Item 1	1
<b>ELECTRICAL FEEDER SYSTEM, PDISE M100</b>	WP 0095 00, COEI, Item 39	1
STRAP, CABLE CARRYING	TM 9-6150-226-13	8
CABLE, PIGTAIL, 100A, 4 FT LONG	TM 9-6150-226-13	1
CABLE ASSEMBLY, SERVICE, 100A, 50 FT LONG	TM 9-6150-226-13	2
ELECTRICAL FEEDER CENTER, 100A	TM 9-6150-226-13	1
TECHNICAL MANUAL, PDISE TM 9-6150-226-13	WP 0095 00, BII, Item 4	1
<b>REMAINING ADMINISTRATIVE TENT KIT ITEMS</b>		
COVER, TENT, TEMPER	WP 0095 00, COEI, Item 55	4
PLENUM, END WALL, 16 FT, TEMPER	WP 0095 00, COEI, Item 42	2
FLOOR MAT, ALTERED ITEM	WP 0095 00, COEI, Item 27	2
TABLE, FOLDING, 6 FT, ALUMINUM	WP 0095 00, COEI, Item 57	4
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	8
TEMPER CONVENIENCE OUTLET ASSEMBLY, 3 DROP	WP 0095 00, COEI, Item 18	4
SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG	WP 0095 00, COEI, Item 50	1
MOP HEAD	WP 0095 00, COEI, Item 37	2
MOP HANDLE	WP 0095 00, COEI, Item 36	2
WRINGER, MOP, SIZE-SMALL, TYPE-GEAR & RACK	WP 0095 00, COEI, Item 63	2
BUCKET, MOP, STEEL, OVAL, 16 QUART, W/ CASTERS	WP 0095 00, COEI, Item 7	2
FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND	WP 0095 00, COEI, Item 25	2
TRUNK, LOCKER	WP 0095 00, COEI, Item 66	8
CHAIR, FOLDING, STEEL	WP 0095 00, COEI, Item 9	9
SHOVEL, ROUND POINT, D HANDLE	WP 0095 00, COEI, Item 49	2
BROOM, UPRIGHT	WP 0095 00, COEI, Item 6	2
MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD	WP 0095 00, COEI, Item 34	1
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG	WP 0095 00, COEI, Item 8	4

**SYSTEM SUPPORT PACKAGES**

System Support Packages provide a 30-Day supply of general replacement parts and components such as light bulbs, as well as repair parts for specific equipment. The SSP listed below are shipped in the TRICON specified. At the discretion of the Force Provider Company commander, these support packages can be distributed for use with the applicable subsystems that are using the equipment for which they are intended, or centrally maintained within the Administrative Subsystem to support centralized maintenance operations. The following specific packages are provided in the TRICON indicated.

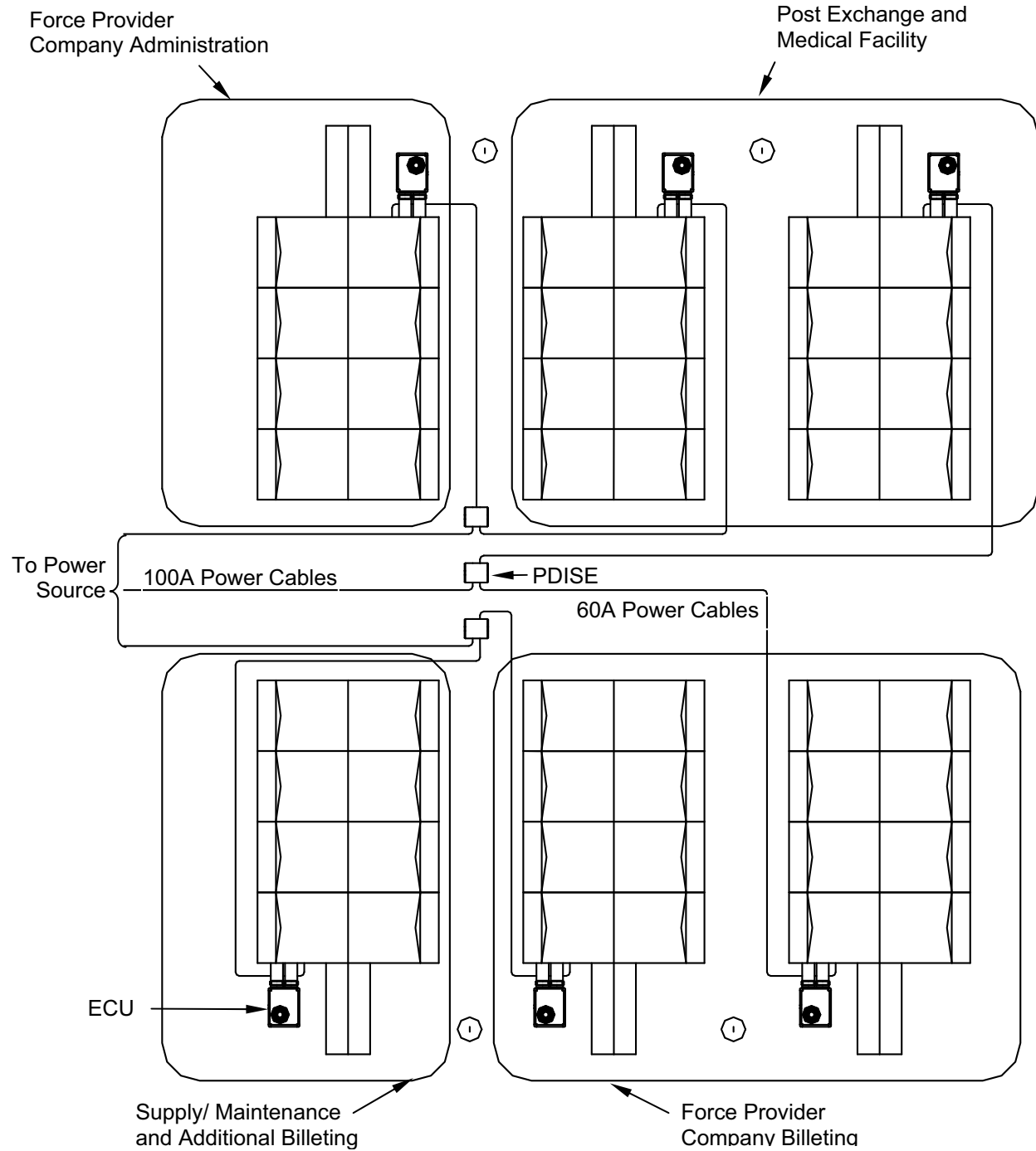
**Table 5. System Support Packages.**

<b>System Support Packages</b>	<b>TRICON</b>	<b>Qty</b>
10k Reefer Unit System Support Package	11-B	1
Beverage Dispenser, Mechanical System Support Package	11-B	1
Coffee Urn System Support Package	11-B	1
Electric Oven System Support Package	11-B	1
Floodlight Subsystem	11D	1
General Purpose System Support Package	11-B, 11-C	1
Griddle System Support Package	11-B	1
KECO ECU System Support Package	11-B	1
Latrine Subsystem	3A	4
Laundry Subsystem	2C	1
M80 Water Heater System Support Package	11-B	1
Meat Slicer System Support Package	11-B	1
Power Generation Equipment and Electrical Support Package	11-B	1
Reefer Box System Support Package	11-B	1
Steam Kettle, 20 Gal System Support Package	11-B	1
Steam Kettle, 6 Gal System Support Package	11-B	1
Steam Table System Support Package	11-B	1
System Support Package for Wastewater Evacuation System	11-B	1
Tent System Support Package	11-B, 11-C	1
Tilt Griddle System Support Package	11-B	1
Water Distribution and Plumbing System Support Package	11-C	1

Refer to Table 1 and 2 for a detailed parts listing of each individual system support package.

**ADMINISTRATION SUBSYSTEM LAYOUT**

The diagram below shows the suggested Administration Subsystem layout. However, the layout can be altered to accommodate specific geographical location, terrain features, road network, traffic patterns, or mission requirements. If an altered layout is required, it should be determined during the site planning process described in WP 0022 00.



**Administration Subsystem Layout.**

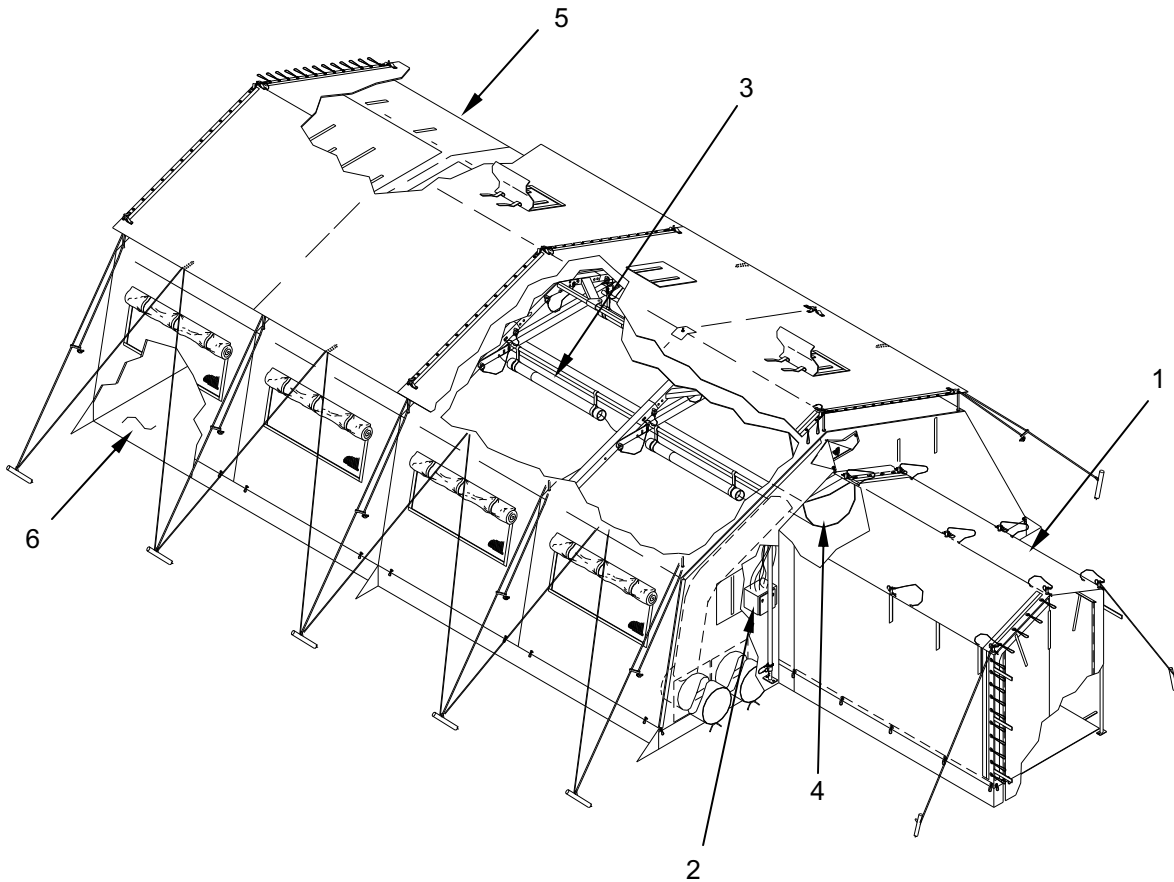
**ASSEMBLY AND PREPARATION FOR USE OF ADMINISTRATION TEMPER**

1. The Type IV, 20-foot x 32-foot TEMPER should be erected in one group of six TEMPER as outlined by the staking diagram shown in WP 0022 00. Two of these TEMPER should be set up as billeting tents, one as supply/maintenance and billeting, one as administration, and the remaining two designated for medical use and a Post Exchange (PX). Set up each type of TEMPER as described in this WP.
2. The contents of one type 12F container are required to erect two complete TEMPER. To simplify setup, do not pool or mix container contents.

**NOTE**

Some of the suggested TEMPER layouts show partitions to separate functional areas. Consider these requirements when erecting the applicable TEMPER.

3. Use procedures found in TM 10-8340-224-13 to erect the desired number of complete 20-foot x 32-foot TEMPER including end wall vestibule (1), power distribution box (2), lights (3), end wall plenums (4), liners (5) and floors (6).



**ASSEMBLY AND PREPARATION FOR USE OF ADMINISTRATION POWER SUPPLY****WARNING**

Power to a FP Module can be provide by a commercial source, or generated by either the MSPG, or MSPP. In each case, power will be supplied to the PDISE for distribution to the user. It is the responsibility of individual subsystem personnel to lay out and assemble the requisite cables to the PDISE for connection. Personnel of the Force Provider Company Facilities Support Section are responsible for facilitating power supply to the PDISE. Only qualified personnel must connect user cables to the PDISE and pigtails to the power source. Failure to observe this warning may result in severe injury or death by electrocution.

The following procedure assumes the Administration Subsystem consists of six 20-foot x 32-foot TEMPER positioned as specified by the staking diagram in WP 0022 00. Assemble the power supply equipment for the Administration Subsystem as follows:

1. Position three PDISE-M100s (1) in the center of the six TEMPER group where designated by staking or approximately 90-feet from power source.

**CAUTION**

Keep cables away from vehicle traffic. Damage to cables may result.

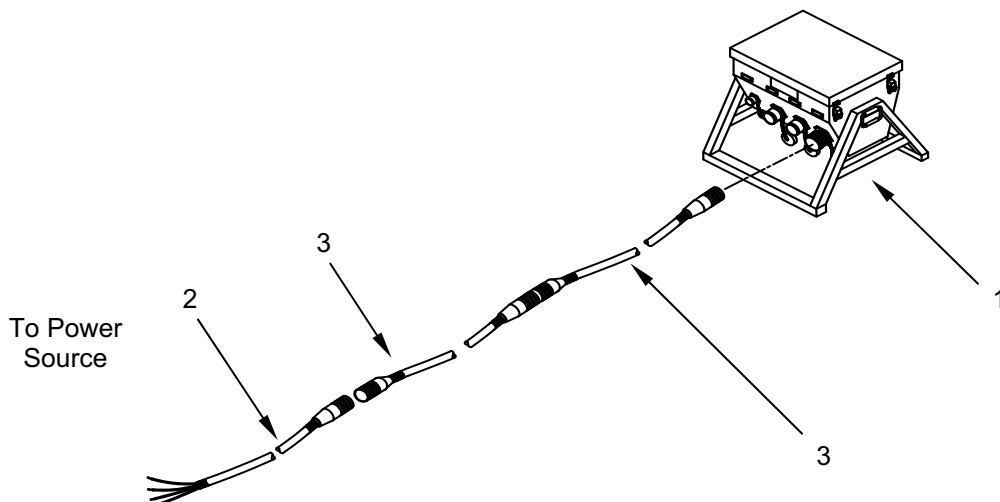
**NOTE**

When assembling power equipment, follow procedures for laying out cables from power source to point-of-use, then connecting cables from point-of-use back to power source. Male ends of cables always go toward power source.

2. Position a 100-A/4-foot pigtail (2) and two 100-A/50-foot service cables (3) on the power source side of the PDISE-M100 (1). These cables will be laid out and connected to the PDISE-M100 (1) and power source by facilities support section personnel.

**NOTE**

Also refer to Illustration ADMINISTRATION TENT PAIR POWER LAYOUT.



3. Lay out two, 60-A/100-foot power cables (5) from each PDISE-M100 (1) to one of the six TEMPER power controls (6). Pass cables under TEMPER end wall.

**CAUTION**

Connect all loose dust caps after connecting cables. Dirt and water may cause damage to electrical connections.

4. Insert female end of 60-A/100-foot power cables (5) firmly into POWER IN receptacle of TEMPER electrical power distribution box (6) and secure with lock rings. Connect dust caps together.
5. Connect each pair of 60-A/100-foot power cables (5) together and secure with lock rings. Connect dust caps together.
6. Ensure all circuit breakers in PDISE-M100s (1) are set to OFF position.

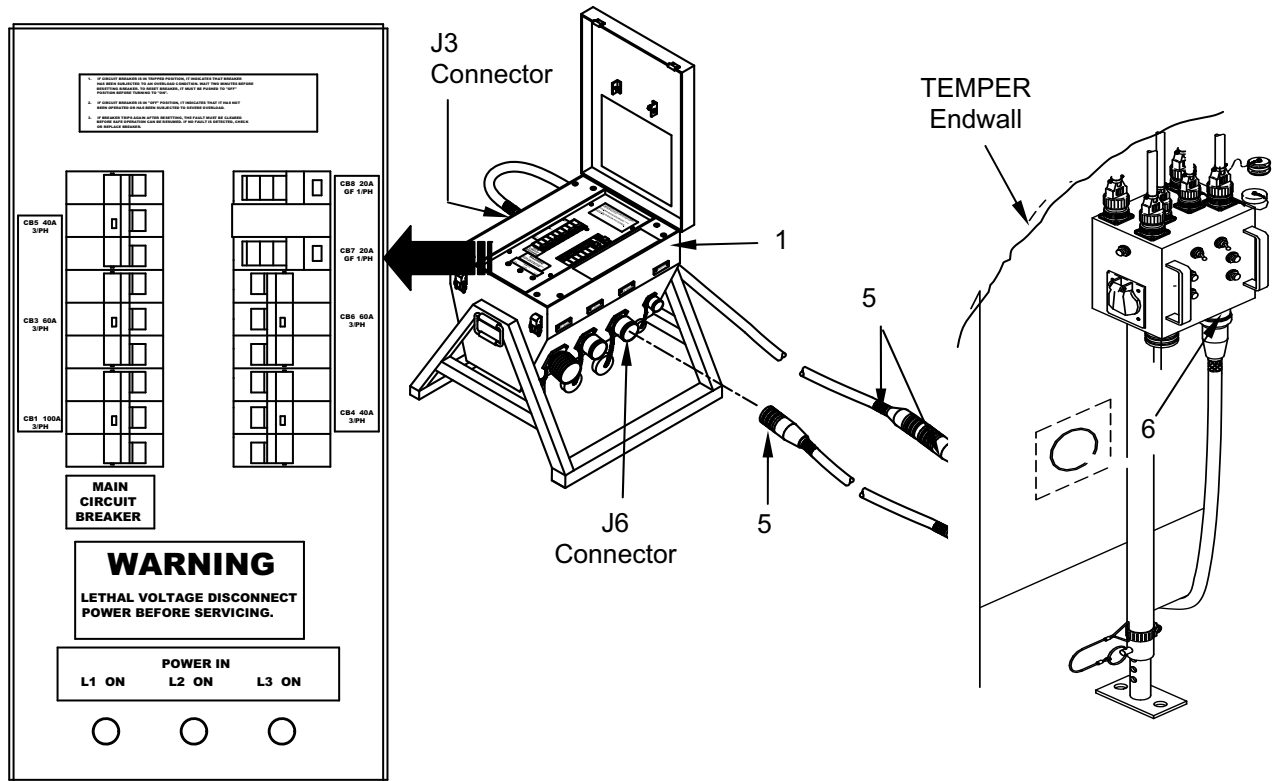
**NOTE**

Each PDISE-M100 (1) will service two, Type IV, 20-foot x 32-foot TEMPER.

7. Connect one, 60-A/100-foot power cable (5) pair to the J3, and a second pair of 60-A/100-foot power cables (5) to the J6, 60-A Connectors on the PDISE-M100 (1) and secure with lock rings. Connect dust caps together.

**NOTE**

Also refer to Illustration ADMINISTRATION TENT PAIR POWER LAYOUT.

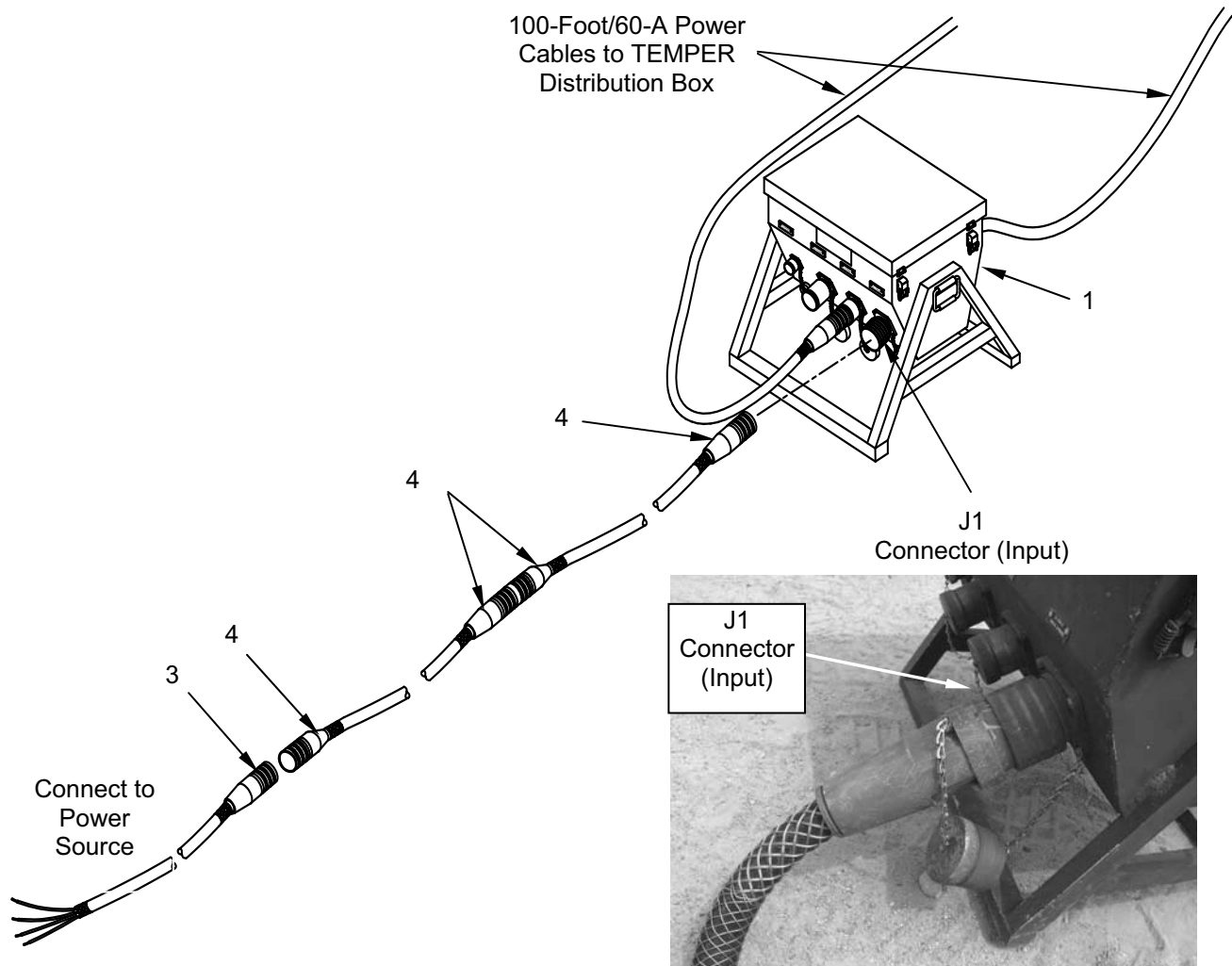




**WARNING**

Only qualified personnel must connect service cables to PDISE-M100 and pigtails to power source. Failure to observe this warning may result in severe injury or death by electrocution.

8. Connect 50-foot/100-A service cable (4) to the J1, 100-A Input connector on the PDISE-M100 (1) and secure with lock rings. Connect dust caps together.
9. Connect a second 50-foot/100-A service cable (4) to the first. Connect dust caps together and secure with lock rings.
10. Connect a 4-foot/100-A pigtail (3) to each of the three assembled pairs of 50-foot/100-A service cables (4) and secure with lock rings. Connect dust caps together.
11. Once the power source has been set up, or designated, connect the four 4-foot/100-A pigtails (3) to the power source.



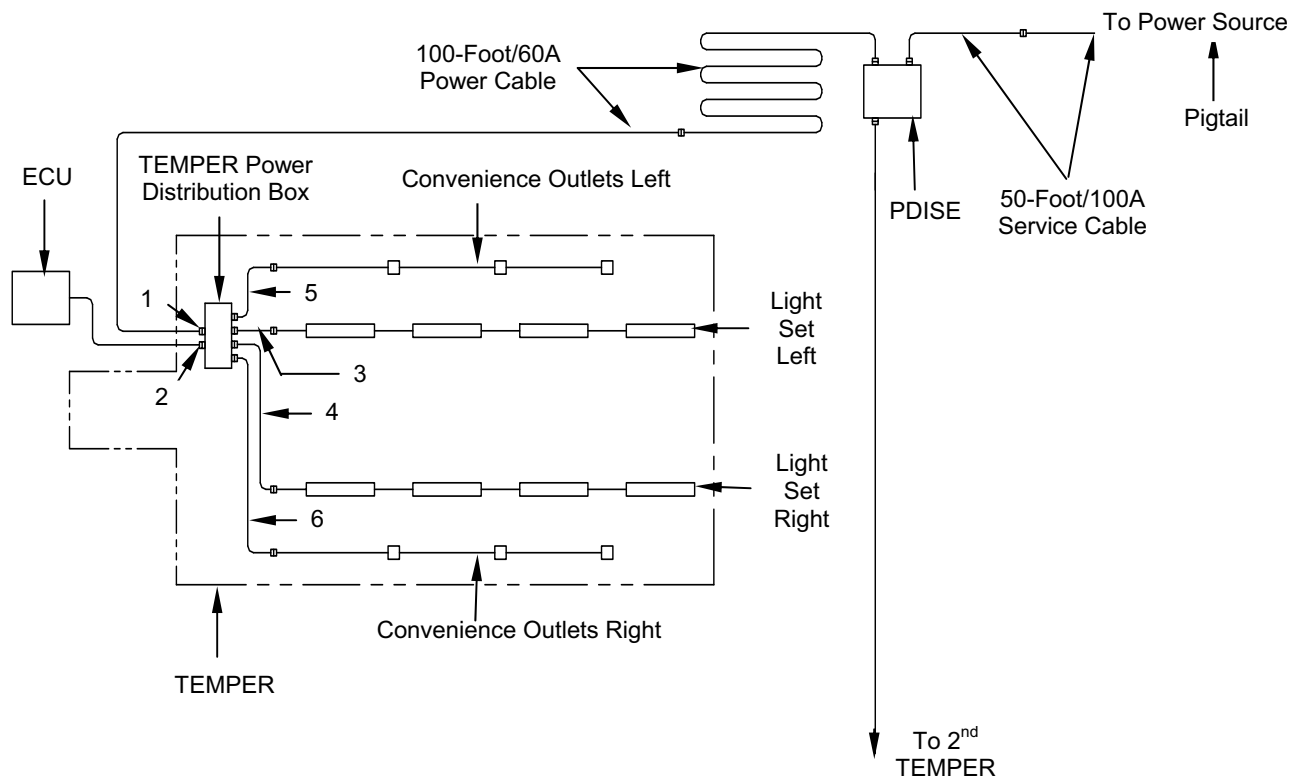


Make connections to the TEMPER power distribution box as follows:

**CAUTION**

Ensure power switches on power distribution box are off before connecting power cable to the J1 connector.

1. With power switches on the power distribution box turned off, connect the 60 A power cable to the J1 Power-In Connector (1) located on the bottom of the power distribution box.
2. Connect the ECU power cable to the J2 Power-Out Connector (2) located on the bottom of the power distribution box.
3. Connect the 103-inch light set cable assembly (3) to the J5 connector and the 173-inch light set cable assembly (4) to the J6 connector located on top of the power distribution box.
4. Connect the power cord of the left light set string to the 103-inch light set cable assembly and the power cord of the right light set string to the 173-inch light set cable assembly.
5. Connect the 156-inch outlet cable assembly (5) to the J7 or J9 connector and the 254-inch outlet cable assembly (6) to the J8 or J10 connector located on top of the power distribution box.
6. Connect the left convenience outlet assembly (3 Drop) to the 156-inch outlet cable assembly (5) and the right convenience outlet assembly (3 Drop) to the 254-inch outlet cable assembly (6).
7. When power is available, turn on power switches on distribution box to operate components as needed.

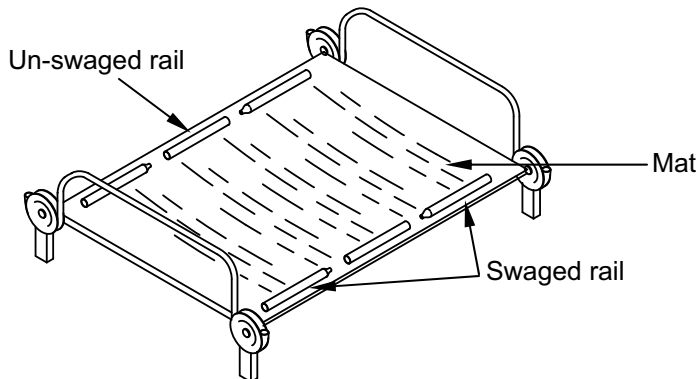


**Administration Tent Pair Power Layout.**

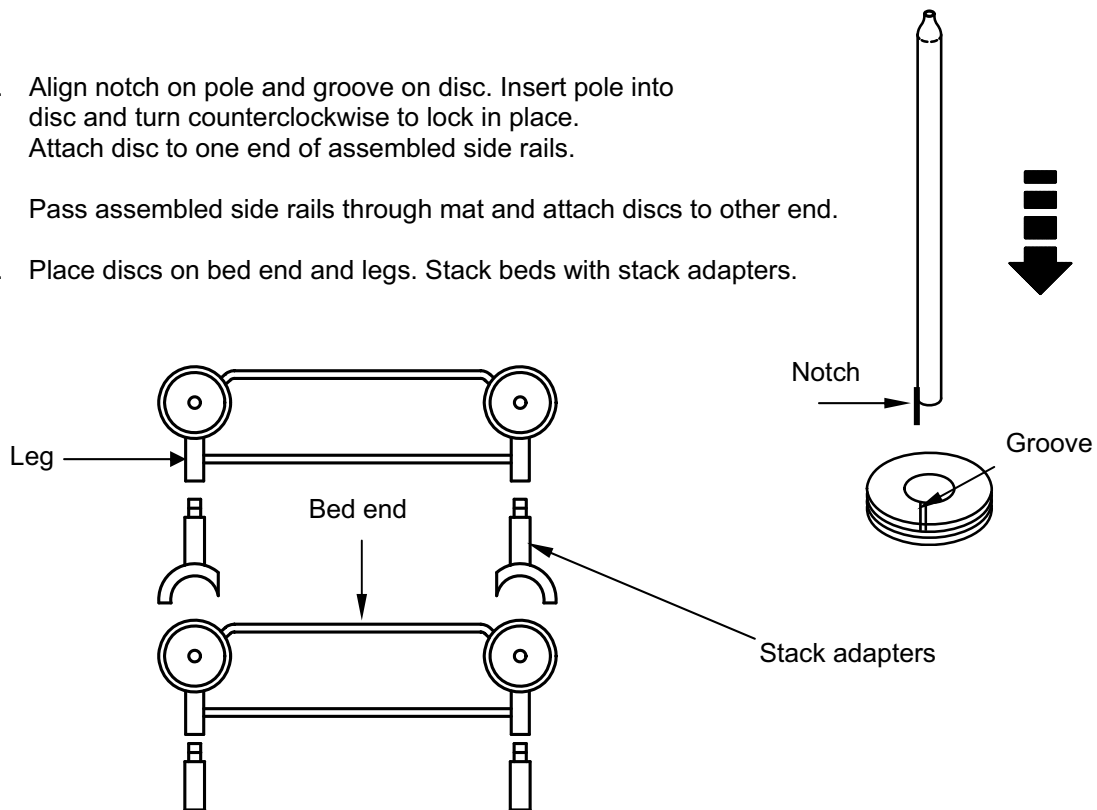
**ADMINISTRATION EQUIPMENT LAYOUT**

Billeting Tent Layout. Billeting equipment should be positioned in each erected Billet TEMPER as shown in one of the two alternative layout plans that follow.

1. Unroll floor mat (1) in center of each Billet TEMPER.
2. Refer to Figure 3 and assemble bunk beds as follows:
  - a. Assemble two swaged and one un-swaged side rails as shown. Repeat for other side of bed.

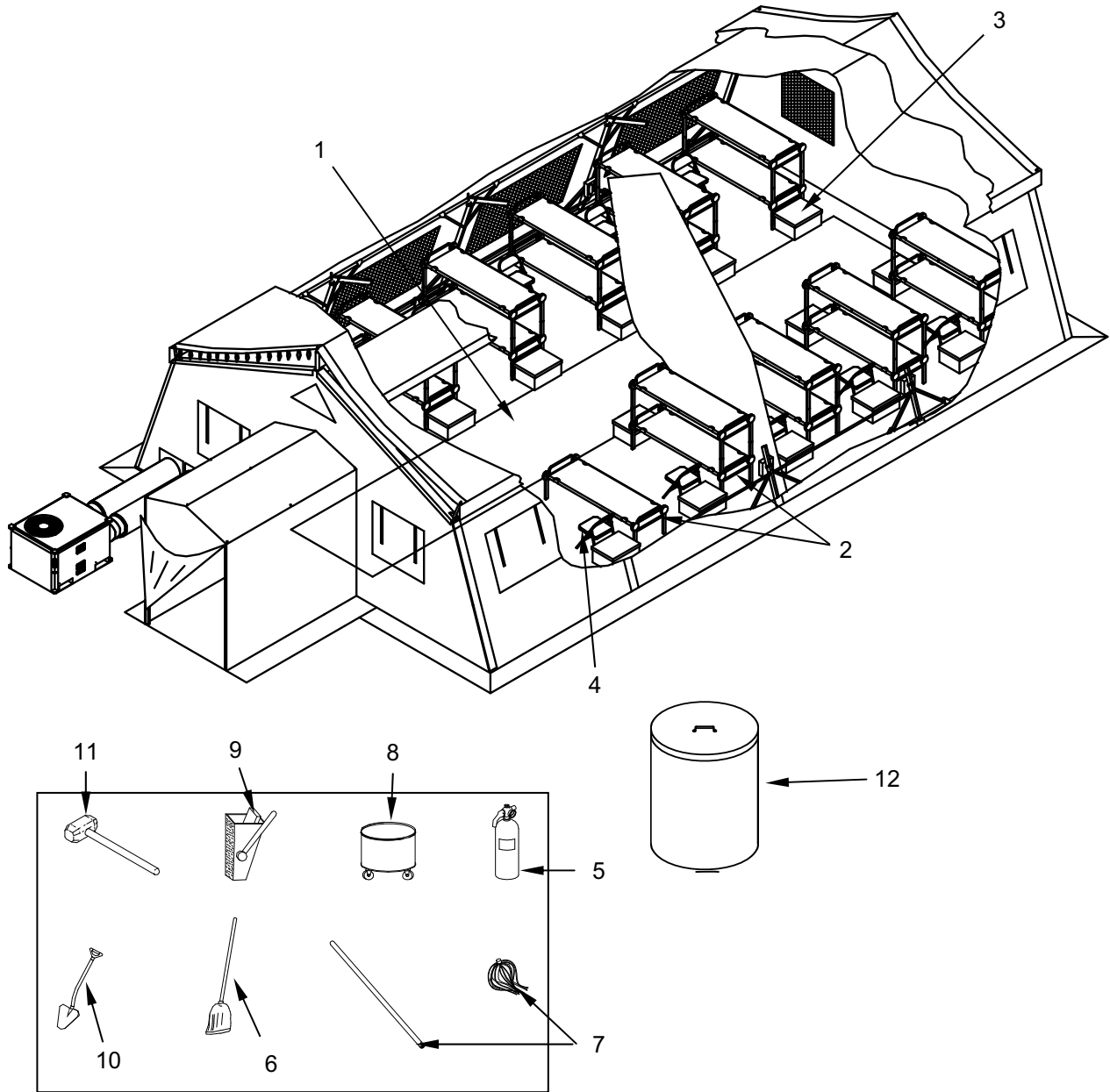


- b. Align notch on pole and groove on disc. Insert pole into disc and turn counterclockwise to lock in place. Attach disc to one end of assembled side rails.
- c. Pass assembled side rails through mat and attach discs to other end.
- d. Place discs on bed end and legs. Stack beds with stack adapters.

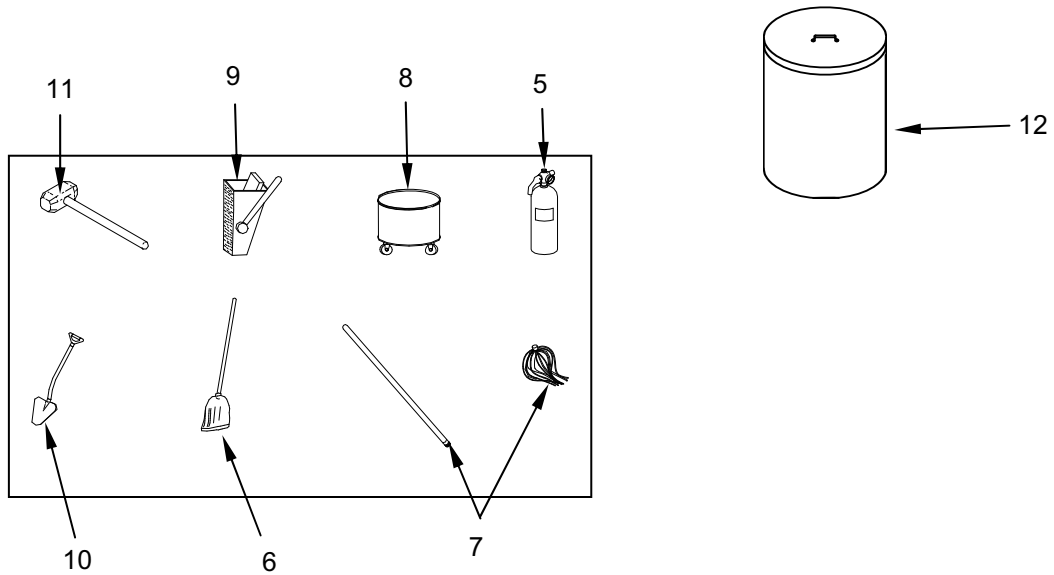
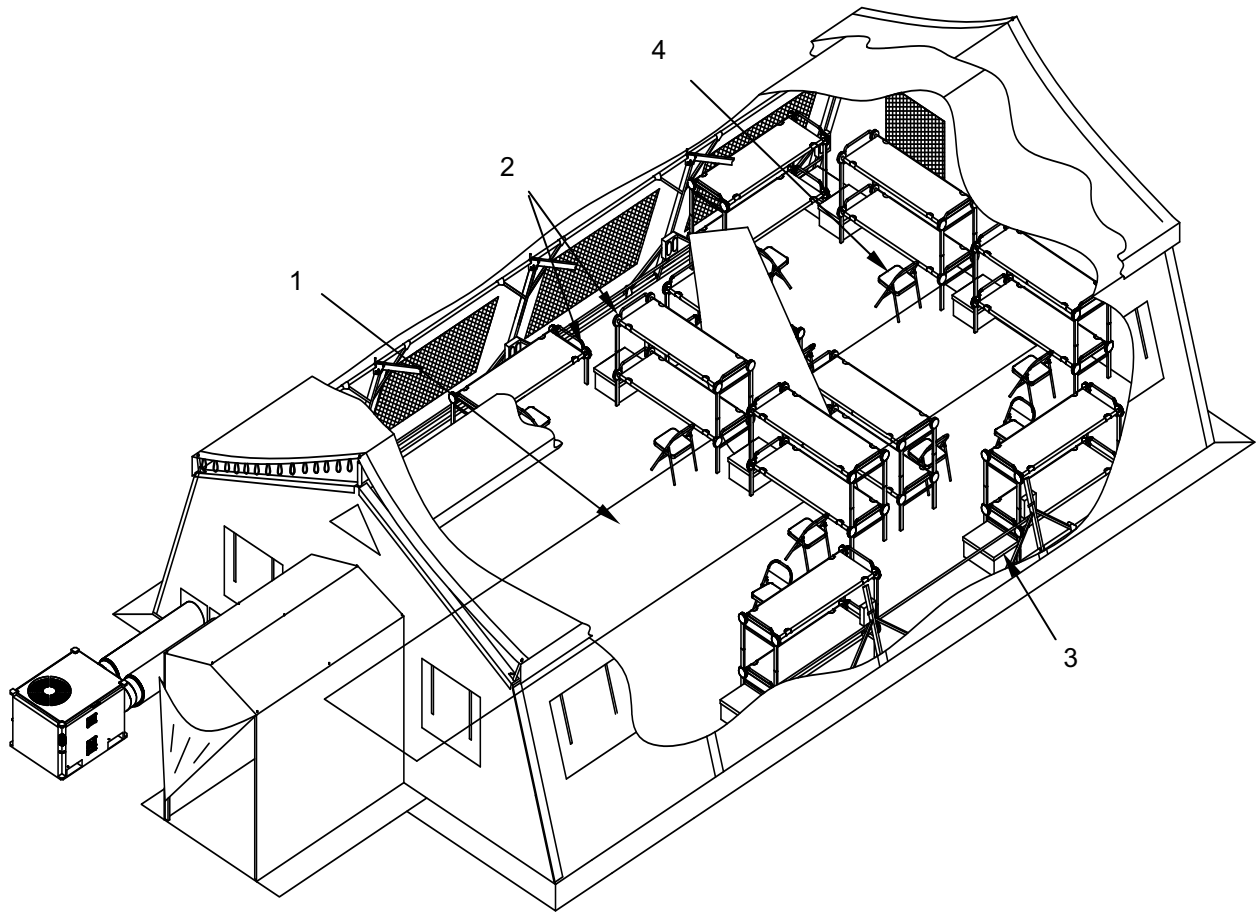


**Bunk Bed Assembly.**

3. Position 9 double and one single bunk (2) 19 footlockers (3) and 10 chairs (4) in each billet TEMPER as shown below, or in the alternate layout.
4. Position fire extinguisher (5), broom (6), mop (7), mop bucket (8) and mop wringer (9), shovel (10) and sledge hammer ((11) only one available for every two tents) near each entrance of every TEMPER.
5. Obtain 4 each trash cans and lids (12) and position one trash can with lid between the entrances (Vestibule) of two TEMPER.



**Billeting Tent Layout.**

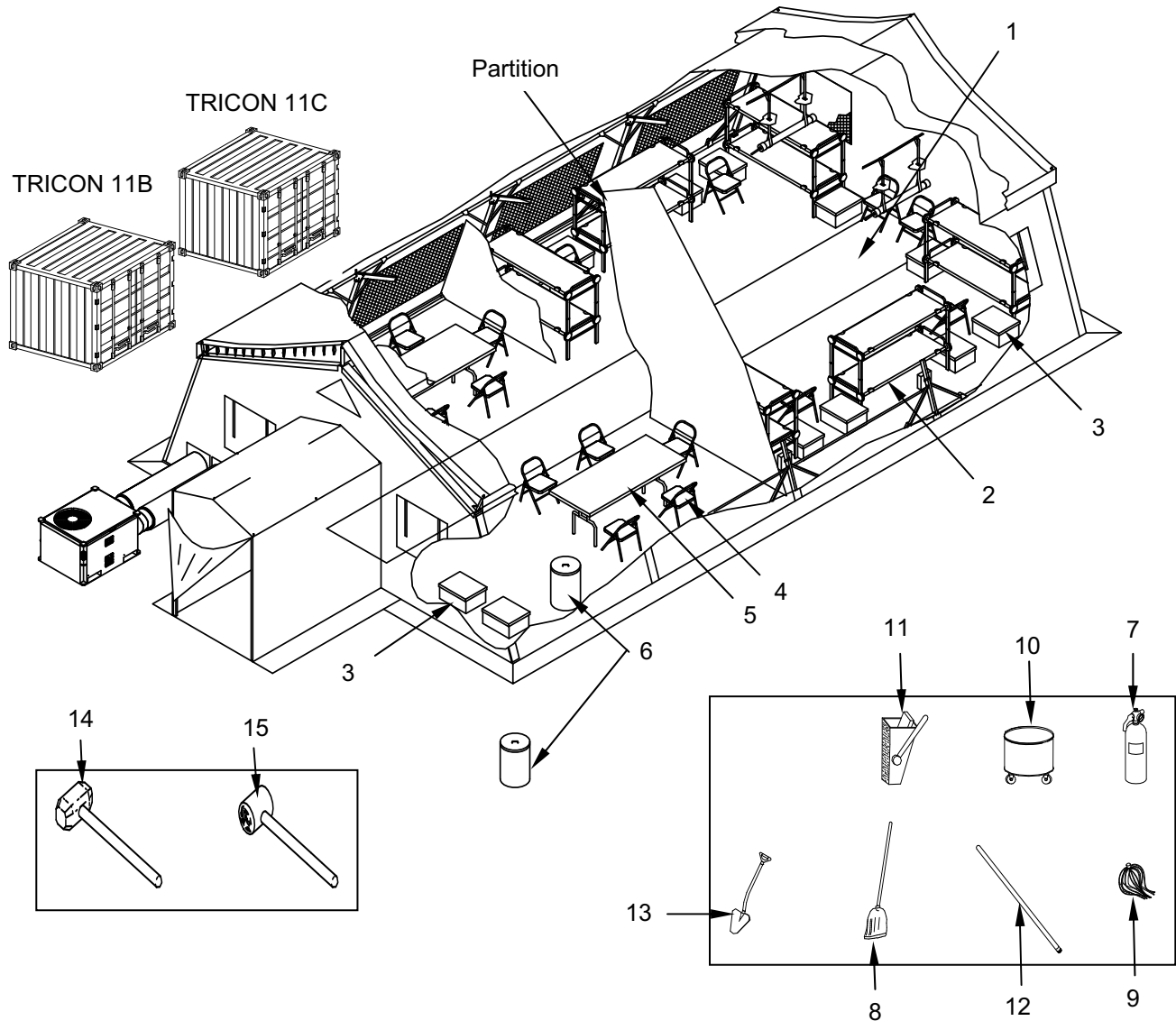


**Alternate Billeting Tent Layout.**

**Supply/Maintenance and Billeting Layout**

Equipment should be positioned in the supply/maintenance and billeting TEMPER as shown in the layout plan shown below:

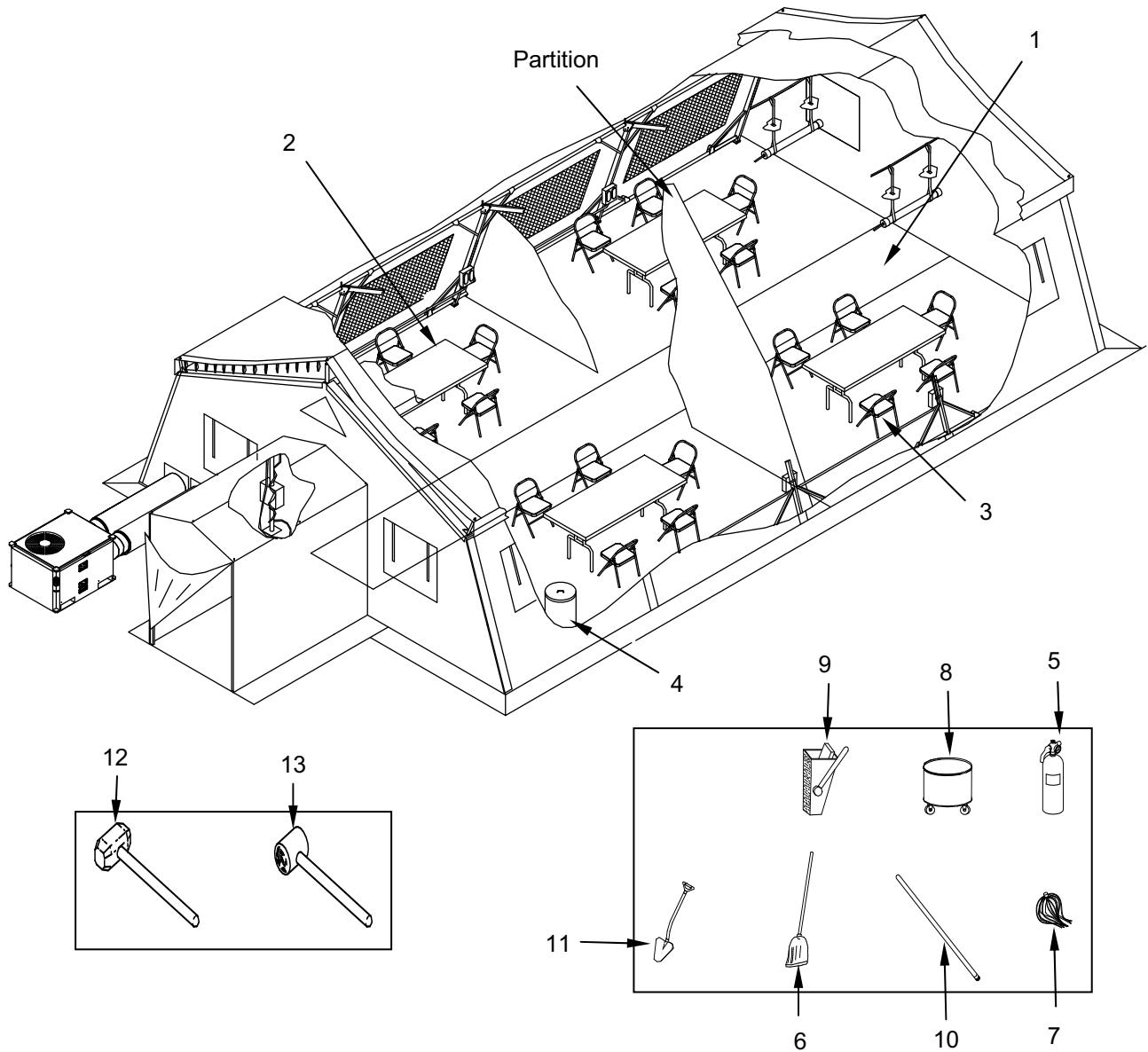
1. Unroll floor mat (1) in center of each Billet TEMPER.
2. Assemble bunk beds as in billeting layout.
3. Position 6 double bunks (2), 14 footlockers (3), and 16 chairs (4), two folding tables (5), and a trash barrel with lid (6) inside the TEMPER as shown below.
4. Position fire extinguisher (7), broom (8), mop (9), mop bucket (10), mop wringer (11), mop handle (12) and shovel (13) near the entrance of the TEMPER. A sledge hammer (14) and mallet (15) is available on a shared basis with the administration tent.
5. Obtain 1 each trash can and lid (6) and position the can with lid beside the entrance (Vestibule) of the TEMPER as shown.



**Administration Layout**

Equipment should be positioned in the administration TEMPER as shown in the layout plan shown below:

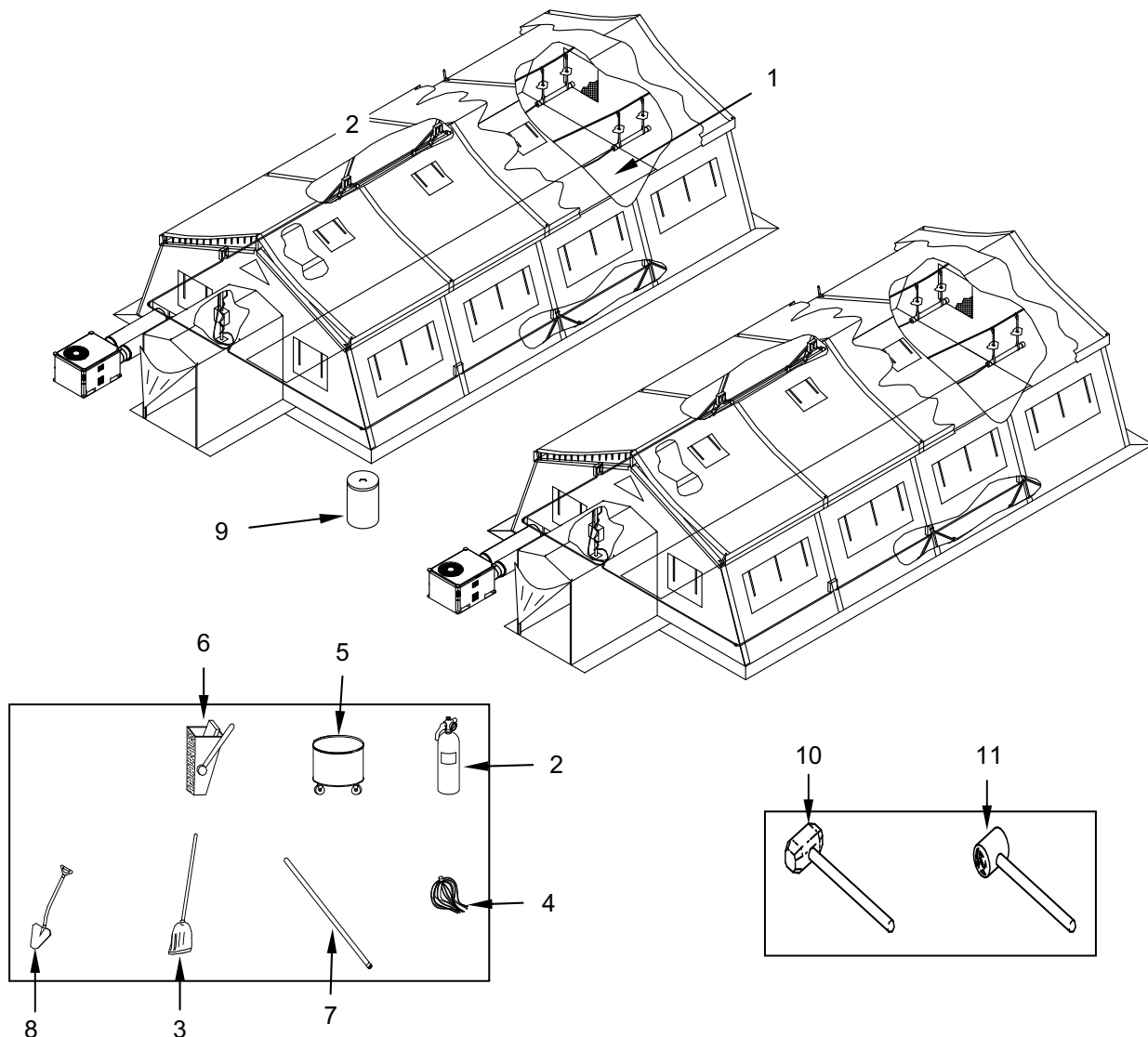
1. Unroll floor mat (1) in center of each Billet TEMPER.
2. Position 4 folding tables (2), 20 chairs (3), and a trash barrel with lid (4) inside the TEMPER as shown below.
3. Position fire extinguisher (5), broom (6), mop (7), mop bucket (8), mop wringer (9), mop handle (10), and shovel (11) near the entrance of the TEMPER. A sledge hammer (12) and mallet (13) is available on a shared basis with the supply/maintenance and billeting tent.



## Post Exchange and Medical Tent Layout

Equipment should be positioned in the PX and Medical TEMPER as shown in the layout plan shown below:

1. Unroll floor mat (1) in center of each Billet TEMPER.
2. Assemble bunk beds as in billeting layout.
3. Position any double bunks, footlockers, chairs, and folding tables as required in the medical facility.
4. Position fire extinguisher (2), broom (3), mop (4), mop bucket (5), mop wringer (6), mop handle (7), and shovel (8) near the entrance of the TEMPER. A sledge hammer (9) and mallet (10) is available on a shared basis with the administration tent.
5. Obtain a trash can and lid (11) and position the can with lid beside the entrance (Vestibule) of the TEMPER as shown.

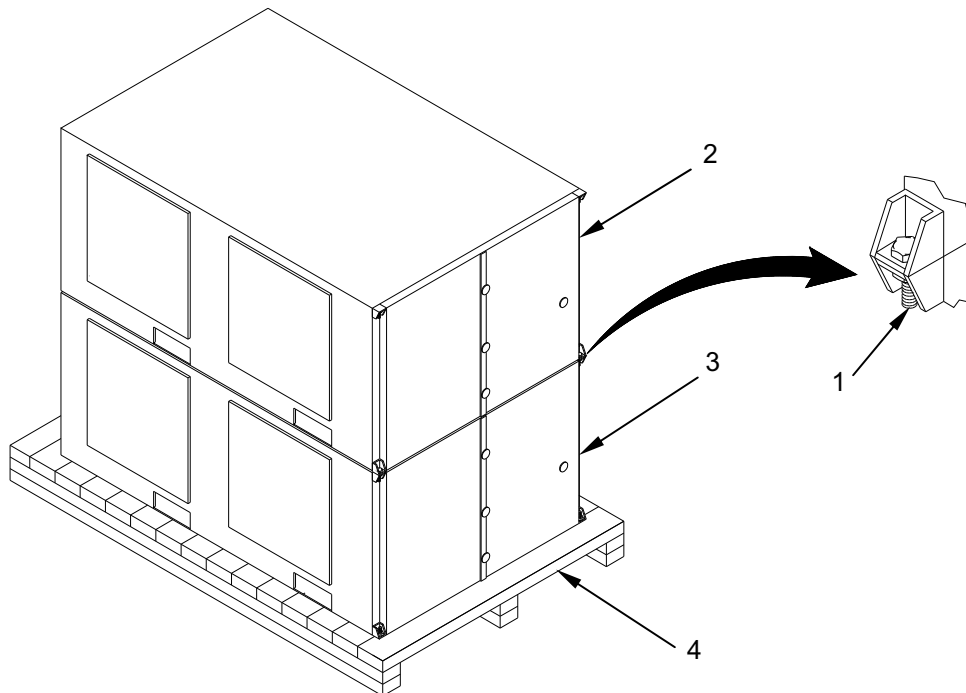


**ASSEMBLY AND PREPARATION OF ECU****NOTE**

The following instructions for the assembly and preparation for use of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-6408) is at hand, assemble, install, operate, and maintain it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are at hand, assemble, install, operate, and maintain them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions furnished herein.

Installation and use of ECU is optional, or may be deferred. Use the following procedures when installing ECU.

1. Remove ECU pallet from TRICON 1B. Remove preservation materials.
2. Remove four nuts, bolts, and washers (1) that secure ECU (2) and (3) together.
3. Use forklift to lift top ECU (2) off lower ECU (3).
4. Install nuts, bolts, and washers (1) back onto lower ECU (3) for future use.
5. Leave pallet (4) attached to lower ECU (3).





Set up ECU as follows:

### NOTE

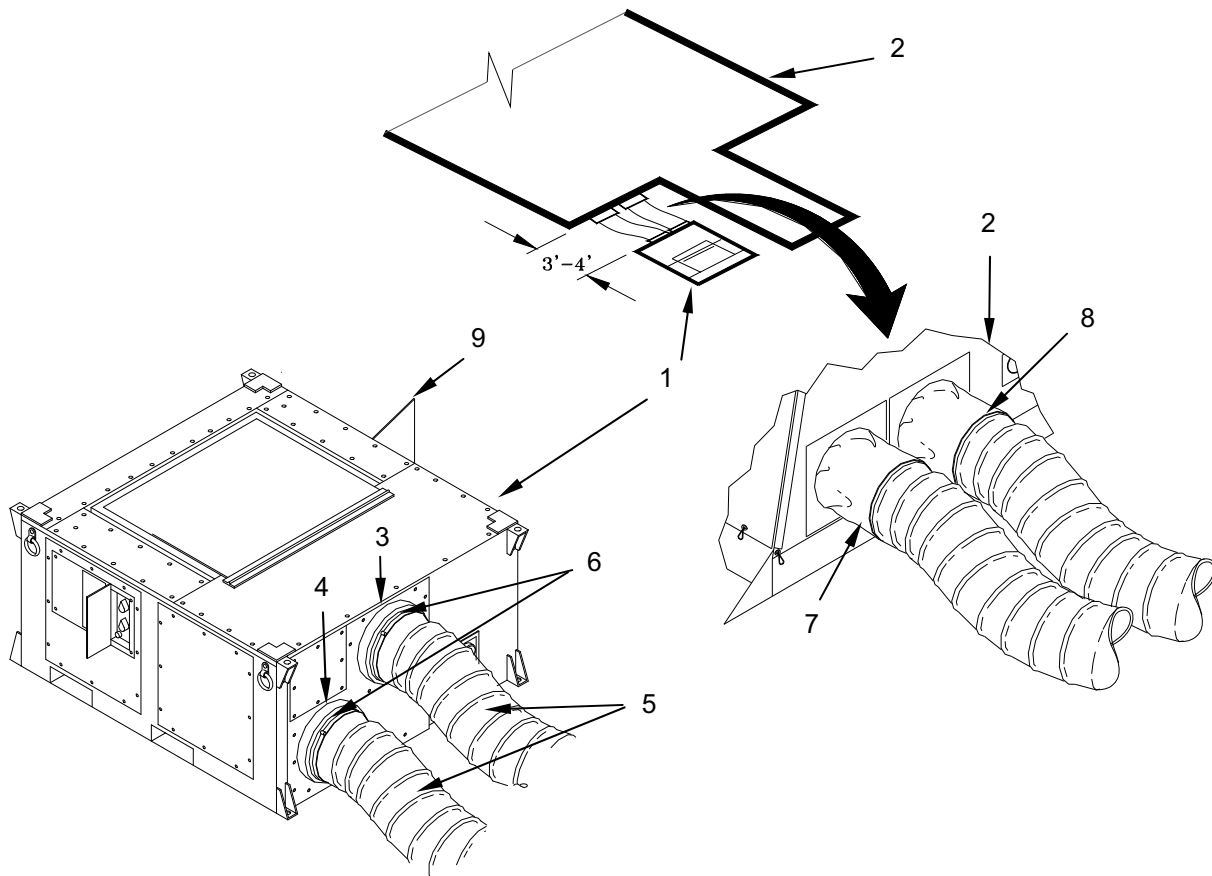
Leaving pallet attached to ECU or using lumber or dunnage between ECU and ground will help to prevent corrosion during long deployments.

1. Obtain lumber or dunnage (several 2-inch x 4-inch pieces are sufficient) on which to set ECU if no pallet is attached.
2. Position each ECU on dunnage or pallet at prepared site (1), three to four-feet from end wall of TEMPER (2), with supply (3) and return (4) duct ports facing TEMPER (2).
3. Remove ducts (5) from ECU by opening hinged panel on rear storage compartment (9). Retrieve ducts and racks. Remove ducts from racks and store racks in condenser compartment.

### NOTE

Observe that airflow directional arrow on ducts are facing in correct direction.

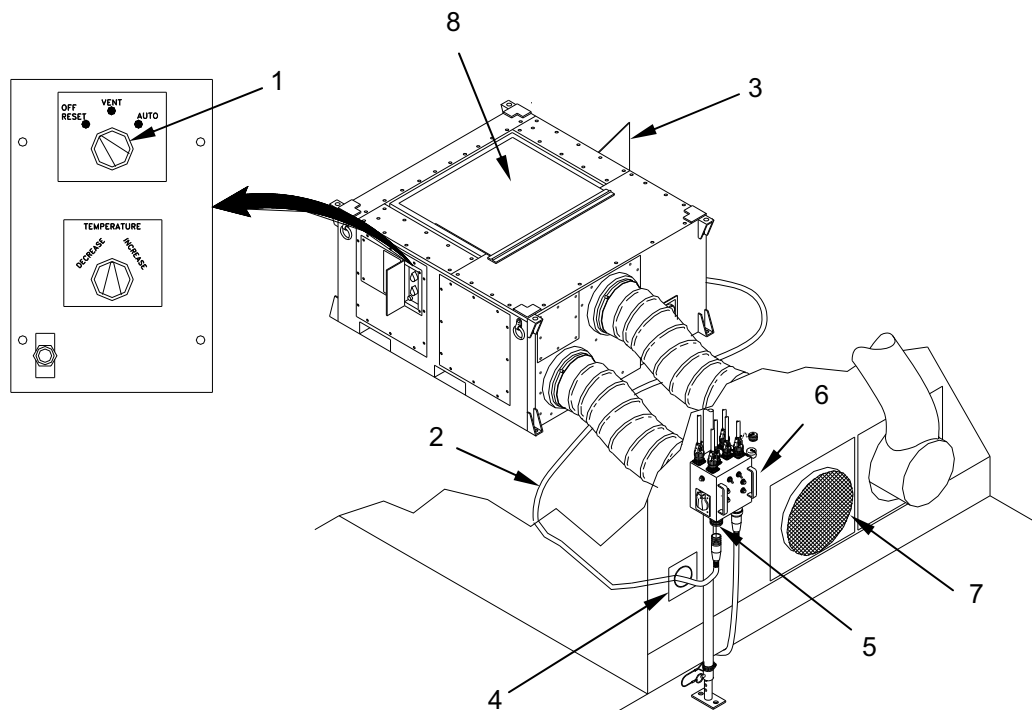
4. Place the 9-foot duct in the correct direction onto the supply (3) and the 7-foot duct to the return (4) flanges on the ECU. Tighten hose clamps (6) on flanges.
5. Attach ECU supply duct (3) to the TEMPER duct (7) that has plenum attached.
6. Attach ECU return duct (4) to the TEMPER duct (8) that does not have plenum attached.
7. Install the condenser drain hose.



**NOTE**

Ensure mode selector switch (1) is set to OFF-RESET position.

8. Remove ECU power cable (2) from condenser compartment door storage box (3).
9. Route ECU power cable (2) through TEMPER cable sock (4) or between end section and floor, and connect to POWER OUT (J2) receptacle (5) on TEMPER power distribution box (6). Connect dust caps together.
10. Install debris screen (7) on return duct.
11. Release and flip the condenser fan cover (8).
12. Ensure all doors are closed and secured.



## **OPERATING INSTRUCTIONS FOR ADMINISTRATION SUBSYSTEM**

Operate the Administration Subsystem by following the procedures in the component technical manuals listed below. Ensure the interior of the TEMPER are cleaned on a daily basis.

## **OPERATING PROCEDURES FOR ADMINISTRATION TEMPERS**

Operate Administration TEMPER in accordance with TM 10-8340-224-13.

## **OPERATING PROCEDURES FOR PDISE M100**

Operate the PDISE in accordance with TM 9-6150-226-13.

## **OPERATING PROCEDURES FOR ECU**

### **NOTE**

If ECU Model AH-54 (NSN 4120-01-432-6408) is at hand, operate it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are used, operate them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions below.

### **Initial Adjustments and Checks**

1. Ensure power cable has been connected to a 208/230-V, 3 Phase, 50/60-Hz power source.
2. Inspect all covers, panels, grilles, and screens for loose mounting, obstructions, preservation material, or shipping damage. Report damage to supervisor.

### **Operation in Ventilate Mode**

1. Turn mode selector switch (1) to VENT position.

### **NOTE**

When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

2. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

### **Operation in Automatic Mode**

### **CAUTION**

Compressor can be damaged if started with liquid refrigerant in crankcase. Power must be connected to ECU for a period of not less than 5 hours before starting in automatic mode. Do not operate the ECU in the automatic mode for cooling when the outside air temperature is below 50 °F. Under these conditions, operate in the ventilate mode and admit fresh air as required to maintain desired temperature in the conditioned space.

1. Turn mode selector switch (1) to AUTOMATIC position.
2. Turn TEMPERATURE control (3) toward DECREASE or INCREASE as necessary to adjust and maintain the desired temperature in the conditioned space. When adjusting the TEMPERATURE control, the ECU must be given adequate time to change the temperature in the conditioned space before making additional adjustments. The temperature control has a range of 40 °F to 90 °F (5 °C to 32 °C) with the mid-point being approximately 65 °F (18 °C). Turn mode selector switch (1) to AUTOMATIC position.

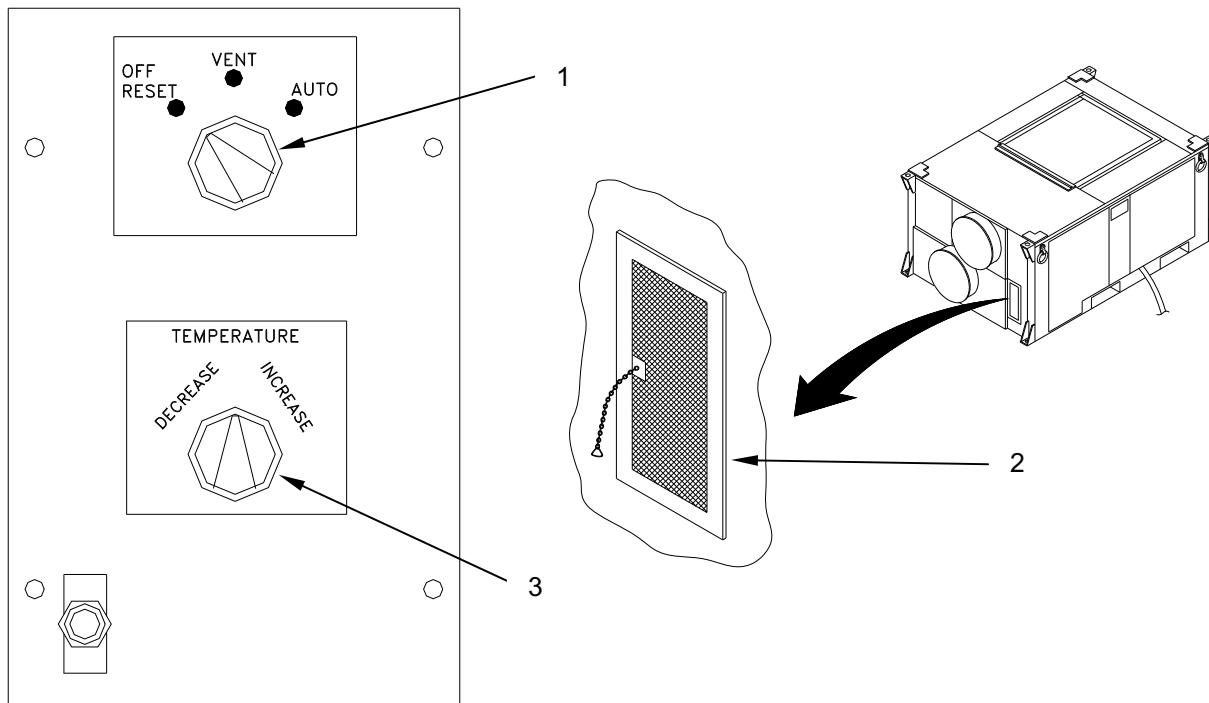
### NOTE

When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened slightly to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

3. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

### Shutdown

Turn mode selector (1) to the OFF/RESET position.



**END OF WORK PACKAGE**

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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS –  
MORALE, WELFARE, AND RECREATION (MWR) SUBSYSTEM**

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**GENERAL**

This WP contains operating procedures for the Morale, Welfare and Recreation (MWR) subsystem. Procedures for the operation of the administration subsystem in the MSCW Configuration is presented in WP 0038 00.

Before assembly and preparation for use of the MWR subsystem, the FP module site selection, planning, preparation, staking and staging must be completed. . TRICON 11D, 11G, 11H, 12A, 12B, and 12C must be staged as described in WP 0022 00.

The administration subsystem requires connection to a power source.

**SCOPE**

Assembly and preparation for use of the MWR subsystem before operation consists of the following:

- Unpacking and inventory of equipment in TRICON 11D, 11G, 11H, 12A, 12B, and 12C as applicable
- Obtaining MWR equipment shipped in shared TRICON with Administration subsystem. (See NOTE below)
- Assembly and preparation for use of TEMPER and power groups
- Setting up MWR equipment
- Connecting TEMPER to a power source (PDISE)
- Installation of ECUs (optional)

**UNPACKING AND INVENTORY**

Unpack and inventory MWR subsystem components using Table 1 through 4 of this WP.

MWR equipment is packed in the following container types and quantities:

**NOTE**

Some equipment required for the MWR subsystem is shipped in shared containers with the administration subsystem, specifically TRICON 12B, 12C, and 12E. Coordinate with administration subsystem personnel to retrieve this equipment. (Refer to WP 0033 00)

- One ISO Type 11D (MWR Kit, Part A)
- One TRICON Type 11G (MWR Kit, Part B)
- One TRICON Type 11H (MWR Kit, Part C)
- Two TRICON Type 12A (MWR tent Kits)
- One TRICON Type 12B (MWR/Admin Support Kit)
- Five TRICON Type 12C (MWR/Admin ECU Kit)

Refer to WP 0038 00 for location and disposition of MSCW equipment to be used with the MWR subsystem.

To unpack the equipment, proceed as follows:

1. Open each container and check its contents against Tables 1 through 4 for the applicable container type (the container type is stenciled on the left container door as illustrated in WP 0021 00).
2. Remove each item from the container and set it aside, but not in the area where a TEMPER or other equipment is to be positioned.
3. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment. Do not remove the large wooden crate from ISO container 11D.

**Table 1. Inventory List for MWR Kit, Part A, ISO Type 11D.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING, ISO, 20 FT, END OPENING, TYPE I	WP 0085 00, COEI, Item 3	1
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
<b>FLOODLIGHT SYSTEM SUPPORT PACKAGE</b>		1
EXTENSION CORD, 50 FT, #12 AWG/3	WP 0097 00, COEI, Item 4	5
LIGHT HEAD ASSEMBLY	WP 0097 00, COEI, Item 5	10
BULB, HALOGEN, 500W	WP 0097 00, COEI, Item 7	50
GLOVE, INSERT, COTTON	WP 0097 00, COEI, Item 3	6
TRIPOD FLOODLIGHT, 1000W	WP 0097 00, COEI, Item 1	3
TRIPOD FLOODLIGHT, 2000W	WP 0097 00, COEI, Item 2	2
LIGHT SET, FLUORESCENT (PART OF GP SSP)	TM 10-8340-224-13	3
STRAP, WEBBING (PART OF GP SSP)	TM 10-8340-224-13	12
LIGHT EXTENSION ASSEMBLY (PART OF GP SSP)	TM 10-8340-224-13	12
CONTAINER ASSEMBLY, STORAGE (PART OF GP SSP)	TM 10-8340-224-13	3
LAMP, FLUORESCENT (PART OF GP SSP)	TM 10-8340-224-13	3
FUSE HOLDER, EXTRACTOR POST (PART OF GP SSP)	TM 10-8340-224-13	3
<b>REMAINING EQUIPMENT OF MWR KIT PART A</b>		
BENCH, SEATED, MULTIPURPOSE, GYMNAS TIC	WP 0096 00, COEI, Item 28	1
ABDOMINAL SIT-UP BOARD	TM 10-5419-206-23P	2
BENCH, WEIGHTLIFTER, PRESS	TM 10-5419-206-23P	3
SQUAT RACK, GYMNAS TIC	TM 10-5419-206-23P	1
SATELLITE STAND, DISH	TM 10-5419-206-23P	1
SATELLITE DISH, 1.8 METER, C-BAND, TVRO	TM 10-5419-206-23P	1
PROJECTOR SCREEN, 70X70, SILVER LENTICULAR	TM 10-5419-206-23P	2
CARRYING CASE SCREEN, PROJECTION	TM 10-5419-206-23P	2
HORSESHOE SET	TM 10-5419-206-23P	2
SATELLITE RECEIVER/DECODER, INTEGRATED	TM 10-5419-206-23P	1
RACK, DISPLAY, BOOK, 56 SHELF	TM 10-5419-206-23P	1
RACK, DISPLAY, BOOK, 24 SHELF	TM 10-5419-206-23P	3
SATELLITE LNB C-BAND	TM 10-5419-206-23P	1
TABLE, FOLDING, 6 FT, ALUMINUM	TM 10-5419-206-23P	1
AV CART, ADJUSTABLE	TM 10-5419-206-23P	1
VHS TAPE CLEANING	TM 10-5419-206-23P	2
CART, TV	TM 10-5419-206-23P	1
BENCH, CURL	TM 10-5419-206-23P	1
BAG, SPEAKER STAND	TM 10-5419-206-23P	1
CABLE , EXTENSION, MICROPHONE, EXPLORER	TM 10-5419-206-23P	1
RACK, NEWSPAPER	TM 10-5419-206-23P	1
VIDEO PLAYER, VCR/DVD/VHS, STEREO	TM 10-5419-206-23P	1
CORD, EXTENSION, 25FT, 125V, 14AWG	TM 10-5419-206-23P	11
PROJECTOR, MULTIMEDIA	TM 10-5419-206-23P	1
SOFTBALL, BAT, 32IN, 24 OZ	TM 10-5419-206-23P	4

**Table 1. Inventory List for MWR Kit, Part A, ISO Type 11D - Continued.**

Subcomponent	Where Listed/Illustrated	Qty
SOFTBALL, BAT, 33IN, 25 OZ	TM 10-5419-206-23P	8
SOFTBALL, BAT, 34IN, 26 OZ	TM 10-5419-206-23P	8
STEREO, AM/FM/CD/CASSETTE	TM 10-5419-206-23P	1
MICROPHONE, HAND, EXPLORER	TM 10-5419-206-23P	1
MICROPHONE, STAND W/ BOOM, EXPLORER	TM 10-5419-206-23P	1
PUBLIC ADDRESS SYSTEM	TM 10-5419-206-23P	1
POPCORN MACHINE, 120V	TM 10-5419-206-23P	1
KETTLE ASSEMBLY	TM 10-5419-206-23P	1
KETTLE LID, REAR	TM 10-5419-206-23P	1
DRAWER, CRUMB	TM 10-5419-206-23P	4
KETTLE LID, FRONT	TM 10-5419-206-23P	1
DOOR, FRONT, RIGHT	TM 10-5419-206-23P	1
DOOR, BOTTOM	TM 10-5419-206-23P	11
DOOR, FRONT, LEFT	TM 10-5419-206-23P	1
CABLE , EXTENSION, SPEAKER, EXPLORER	TM 10-5419-206-23P	4
STAND, SPEAKER, HEAVY DUTY, EXPLORER	TM 10-5419-206-23P	8
VOLLEYBALL STANDARDS	TM 10-5419-206-23P	8
BAG, PROJECTOR, VIDEO	TM 10-5419-206-23P	1
TABLE, TENNIS TABLE	TM 10-5419-206-23P	1
COVER, LOUDSPEAKER	TM 10-5419-206-23P	1

**Table 2. Inventory List for MWR Kit, Part B, TRICON Type 11G.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
<b>CRC REFRIGERATOR, 2RDS</b>	WP 0096 00, COEI, Item 9	1
WIRE SHELF, END	TM 10-5419-206-23P	6
SHELF CLIPS	TM 10-5419-206-23P	24
LEGS	TM 10-5419-206-23P	4
EVAPORATOR PAN	TM 10-5419-206-23P	1
<b>CRC REFRIGERATOR, 3RDS</b>	WP 0096 00, COEI, Item 9	1
WIRE SHELF, END	TM 10-5419-206-23P	6
WIRE SHELF, CENTER	TM 10-5419-206-23P	3
SHELF CLIPS	TM 10-5419-206-23P	36
LEGS	TM 10-5419-206-23P	6
EVAPORATOR PAN	TM 10-5419-206-23P	1
<b>REMAINING EQUIPMENT OF MWR KIT PART B</b>		
TABLE TENNIS BALL	TM 10-5419-206-23P	5
GAME, DOMINOS	TM 10-5419-206-23P	4
GAME, CRIBBAGE	TM 10-5419-206-23P	4
GAME, UNO DELUX	TM 10-5419-206-23P	4
GAME, YAHTZEE	TM 10-5419-206-23P	4
GAME, MONOPOLY	TM 10-5419-206-23P	4
GAME, RISK	TM 10-5419-206-23P	2
GAME, SCRABBLE	TM 10-5419-206-23P	4
BALL, SOCCER	TM 10-5419-206-23P	6
SOFTBALL CATCHER MITT	TM 10-5419-206-23P	2
SOFTBALL, CATCHERS BODY GUARD	TM 10-5419-206-23P	4
BALL, SOFTBALL	TM 10-5419-206-23P	8

Table 2. Inventory List for MWR Kit, Part B, TRICON Type 11G – Continued.

Subcomponent	Where Listed/Illustrated	Qty
CHAIR, FOLDING, STEEL	TM 10-5419-206-23P	20
SOFTBALL GLOVE, FIELDERS, LHT	TM 10-5419-206-23P	4
SOFTBALL GLOVE, FIELDERS, RHT	TM 10-5419-206-23P	20
HOME PLATE	TM 10-5419-206-23P	3
SHELF, STORAGE AND DISPLAY	WP 0096 00, COEI, Item 18	17
GAME, DICE, BOX	TM 10-5419-206-23P	8
BALL, FOOTBALL	TM 10-5419-206-23P	10
TABLE TENNIS PADDLE	TM 10-5419-206-23P	12
SOFTBALL, CATCHERS MASK	TM 10-5419-206-23P	2
BASEBALL LEG GUARD, BLACK	TM 10-5419-206-23P	2
BASE SET, BASEBALL	TM 10-5419-206-23P	3
VOLLEYBALL	TM 10-5419-206-23P	8
BALL, BASKETBALL	TM 10-5419-206-23P	12
FRISBEE, 10 INCH	TM 10-5419-206-23P	1
FOOTBALL KICKING TEE, 2IN	TM 10-5419-206-23P	4
NEEDLE, INFLATING	TM 10-5419-206-23P	4
FOOTBALL FLAG SET, BLUE	TM 10-5419-206-23P	4
FOOTBALL FLAG SET, RED	TM 10-5419-206-23P	2
PUMP, INFLATING, MANUAL	TM 10-5419-206-23P	4
GAME, BACKGAMMON	TM 10-5419-206-23P	6
GAME, CHESS/CHECKERS	TM 10-5419-206-23P	2
CARDS, BRIDGE/POKER	TM 10-5419-206-23P	4
TABLE TENNIS NET	TM 10-5419-206-23P	8
CARDS, PINOCHLE	TM 10-5419-206-23P	20
GAME CHIPS	TM 10-5419-206-23P	4
GAME, TRIVIAL PURSUIT	TM 10-5419-206-23P	20
VOLLEYBALL NET	TM 10-5419-206-23P	3

Table 3. Inventory List for MWR Kit, Part C, TRICON Type 11H.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	10
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
CHAIR, FOLDING, STEEL	WP 0096 00, COEI, Item 33	55
BARBELL, PLATE HOLDER, OLYMPIC	TM 10-5419-206-23P	2
BARBELL, INTERNATIONAL CURL BAR	TM 10-5419-206-23P	2
BARBELL PLATES, GYMNAS TIC	TM 10-5419-206-23P	3
7 FT LONG X 2 IN. BAR	TM 10-5419-206-23P	3
10 LB PLATE	TM 10-5419-206-23P	6
2.5 LB PLATE	TM 10-5419-206-23P	6
25 LB PLATE	TM 10-5419-206-23P	6
35 LB PLATE	TM 10-5419-206-23P	6
45 LB PLATE	TM 10-5419-206-23P	6
5 LB PLATE	TM 10-5419-206-23P	12
BARBELL SPRING COLLAR	TM 10-5419-206-23P	6
BARBELL, 6 CHROME BAR	TM 10-5419-206-23P	2
BELT, WEIGHT LIFTING, LARGE	TM 10-5419-206-23P	3
BELT, WEIGHT LIFTING, MEDIUM	TM 10-5419-206-23P	3



**Table 3. Inventory List for MWR Kit, Part C, TRICON Type 11H – Continued.**

Subcomponent	Where Listed/Illustrated	Qty
BELT, WEIGHT LIFTING, SMALL	TM 10-5419-206-23P	3
BELT, WEIGHT LIFTING, EXTRA LARGE	TM 10-5419-206-23P	3
DUMBBELL RACK, 12 PAIR WITH CRADLES	TM 10-5419-206-23P	3
100 LB DUMBBELL	TM 10-5419-206-23P	2
10 LB DUMBBELL	TM 10-5419-206-23P	2
15 LB DUMBBELL	TM 10-5419-206-23P	6
20 LB DUMBBELL	TM 10-5419-206-23P	6
25 LB DUMBBELL	TM 10-5419-206-23P	6
30 LB DUMBBELL	TM 10-5419-206-23P	6
35 LB DUMBBELL	TM 10-5419-206-23P	6
3 LB DUMBBELL	TM 10-5419-206-23P	2
40 LB DUMBBELL	TM 10-5419-206-23P	6
45 LB DUMBBELL	TM 10-5419-206-23P	6
50 LB DUMBBELL	TM 10-5419-206-23P	6
55 LB DUMBBELL	TM 10-5419-206-23P	6
5 LB DUMBBELL	TM 10-5419-206-23P	2
60 LB DUMBBELL	TM 10-5419-206-23P	2
65 LB DUMBBELL	TM 10-5419-206-23P	2
70 LB DUMBBELL	TM 10-5419-206-23P	2
75 LB DUMBBELL	TM 10-5419-206-23P	2
80 LB DUMBBELL	TM 10-5419-206-23P	2
85 LB DUMBBELL	TM 10-5419-206-23P	2
90 LB DUMBBELL	TM 10-5419-206-23P	2
95 LB DUMBBELL	TM 10-5419-206-23P	2
WRAP PAD, BAR, GYMNASTIC	TM 10-5419-206-23P	3
BASKETBALL PORTABLE, GOAL AND STAND	TM 10-5419-206-23P	2
BACKBOARD, BASKETBALL	TM 10-5419-206-23P	2
30IN BASE SAFETY PAD COVER	TM 10-5419-206-23P	2
POLE SAFETY PAD COVER	TM 10-5419-206-23P	2
BARBELL SPRING COLLAR	TM 10-5419-206-23P	2

**Table 4. Inventory List for MWR Tent Kit TRICON Type 12A.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	2
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	5
<b>TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V</b>	WP 0096 00, COEI, Item22	2
STAND, DISTRIBUTION BOX, TEMPER	WP 0096 00, COEI, Item21	2
<b>TEMPER CONVENIENCE OUTLET ASSEMBLY, 3 DROP</b>	WP 0096 00, COEI, Item 6	4
CABLE ASSEMBLY OUTLET TYPE III, 156 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY OUTLET TYPE III, 254 IN	TM 10-8340-224-13	4
CABLE ASSEMBLY LIGHT TYPE III AND IV, 103 IN	TM 10-8340-224-13	2
CABLE ASSEMBLY LIGHT TYPE III AND IV, 173 IN	TM 10-8340-224-13	2
<b>LIGHT SET, FLUORESCENT</b>	WP 0096 00, COEI, Item 16	4
STRAP, WEBBING	TM 10-8340-224-13	16
LIGHT EXTENSION ASSEMBLY	TM 10-8340-224-13	16
CONTAINER ASSEMBLY, STORAGE	TM 10-8340-224-13	4
LAMP, FLUORESCENT	TM 10-8340-224-13	4
FUSE HOLDER, EXTRACTOR POST	TM 10-8340-224-13	4

Table 4. Inventory List for MWR Tent Kit TRICON Type 12A – Continued.

Subcomponent	Where Listed/Illustrated	Qty
<b>TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE XVII, 64 FT, GREEN</b>	WP 0096 00, COEI, Item 25	2
PIN, TENT, WOOD, 24 IN	TM 10-8340-224-13	4
PIN, TENT, STEEL, 18 IN	TM 10-8340-224-13	1
FRAME, END SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	10
PURLIN ASSEMBLY	TM 10-8340-224-13	4
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	16
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	16
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	4
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	4
FRAME, WINDOW SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	4
HEADER ASSEMBLY	TM 10-8340-224-13	2
PURLIN ASSEMBLY	TM 10-8340-224-13	20
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	8
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	4
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	4
FRAME, DOOR SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	3
HEADER ASSEMBLY	TM 10-8340-224-13	3
PURLIN ASSEMBLY	TM 10-8340-224-13	9
PURLIN ASSEMBLY, DOOR SILL	TM 10-8340-224-13	6
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	3
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	6
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	3
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	3
FRAME ASSEMBLY, VESTIBULE, TEMPER	TM 10-8340-224-13	9
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	36
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	9
END SECTION, TEMPER	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	4
LINE, TENT	TM 10-8340-224-13	4
FLY, TENT, 16 FT, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	24
LINE, TENT	TM 10-8340-224-13	24
COVER, TENT, TEMPER	TM 10-8340-224-13	8
DOOR SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	3
SLIP, TENT LINE	TM 10-8340-224-13	24
LINE, TENT	TM 10-8340-224-13	24
WINDOW SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	5
SLIP, TENT LINE	TM 10-8340-224-13	20
LINE, TENT	TM 10-8340-224-13	20
LINER, END SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	2
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	6
FLOOR, 8 FT, SINGLE PLY, TEMPER	TM 10-8340-224-13	8
VESTIBULE WITH DOOR, TEMPER	TM 10-8340-224-13	3
SLIP, TENT LINE	TM 10-8340-224-13	12
VESTIBULE TENT SECTION	TM 10-8340-224-13	3
LINE, TENT	TM 10-8340-224-13	12
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	3
FLOOR, VESTIBULE, SINGLE PLY, TEMPER	TM 10-8340-224-13	3
CONTAINER, VESTIBULE, TEMPER	TM 10-8340-224-13	3

Table 4. Inventory List for MWR Tent Kit TRICON Type 12A - Continued.

Subcomponent	Where Listed/Illustrated	Qty
PARTITION, TEMPER	TM 10-8340-224-13	3
PLENUM, END WALL, 16 FT, TEMPER	TM 10-8340-224-13	2
PLENUM, EXTENDABLE, 16 FT, TEMPER	TM 10-8340-224-13	2
DOOR, DOUBLE BUMP-THROUGH, CL A, GREEN	TM 10-8340-224-13	0
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	4
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-13	WP 0096 00, BII, Item 2	3
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0096 00, BII, Item 1	3
<b>ELECTRICAL FEEDER SYSTEM, PDISE M100</b>	TM 9-6150-226-13	6
STRAP, CABLE CARRYING	TM 9-6150-226-13	8
CABLE, PIGTAIL, 100A, 4 FT LONG	TM 9-6150-226-13	3
CABLE ASSEMBLY, SERVICE, 100A, 50 FT LONG	TM 9-6150-226-13	12
ELECTRICAL FEEDER CENTER, 100A	TM 9-6150-226-13	3
TECHNICAL MANUAL, DISE TM 9-6150-226-13	WP 0096 00, BII, Item 1	12
<b>REMAINING TENT KIT ITEMS</b>		
PIN, TENT, STEEL, 18 IN	WP 0096 00, COEI, Item 23	106
FLOOR MAT, ALTERED ITEM	WP 0096 00, COEI, Item 15	2
SLEDGE HAMMER, 12 LBS, FIBERGLASS HANDLE, 34 IN L	WP 0096 00, COEI, Item 20	1
FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND	WP 0096 00, COEI, Item 14	2
TRUNK, LOCKER	WP 0096 00, COEI, Item 36	10
SHOVEL, ROUND POINT, D HANDLE	WP 0096 00, COEI, Item 19	2
BROOM, UPRIGHT	WP 0096 00, COEI, Item 1	2
MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD	WP 0096 00, COEI, Item 17	1
CABLE ASSEMBLY, POWER, 60 AMP, 100 FT LONG	WP 0096 00, COEI, Item 2	4

Table 5. Inventory List for MWR/Administration Support Kit TRICON 12B.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	4
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	9
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	3
<b>BARBER KIT</b>	WP 0096 00, COEI, Item 27	5
BLADE SET	TM 10-5419-206-23P	5
BLADE ADAPTABLE, SZ 3-1/2	TM 10-5419-206-23P	5
DISPOSABLE SAFETY RAZOR	TM 10-5419-206-23P	400
CREAM, SHAVING	TM 10-5419-206-23P	5
SHEARS, BARBER	TM 10-5419-206-23P	10
SOAP, TOILET	TM 10-5419-206-23P	10
HAIR CLIPPER, HAND, SZ0	TM 10-5419-206-23P	5
SOAP BOX, PLASTIC	TM 10-5419-206-23P	5
DISINFECTANT, GENERAL PURPOSE	TM 10-5419-206-23P	10
CHAIR, FOLDING, STEEL	TM 10-5419-206-23P	10
CLIPPER, HAND, ELECTRIC W/ACCESSORIES	TM 10-5419-206-23P	5
TRAY, DISINFECTING	TM 10-5419-206-23P	5
CLOTH, BARBER	TM 10-5419-206-23P	10
CASE, BARBER KIT	TM 10-5419-206-23P	5
COMB, HAIR, BARBER	TM 10-5419-206-23P	2

Table 5. Inventory List for MWR/Administration Support Kit TRICON 12B – Continued.

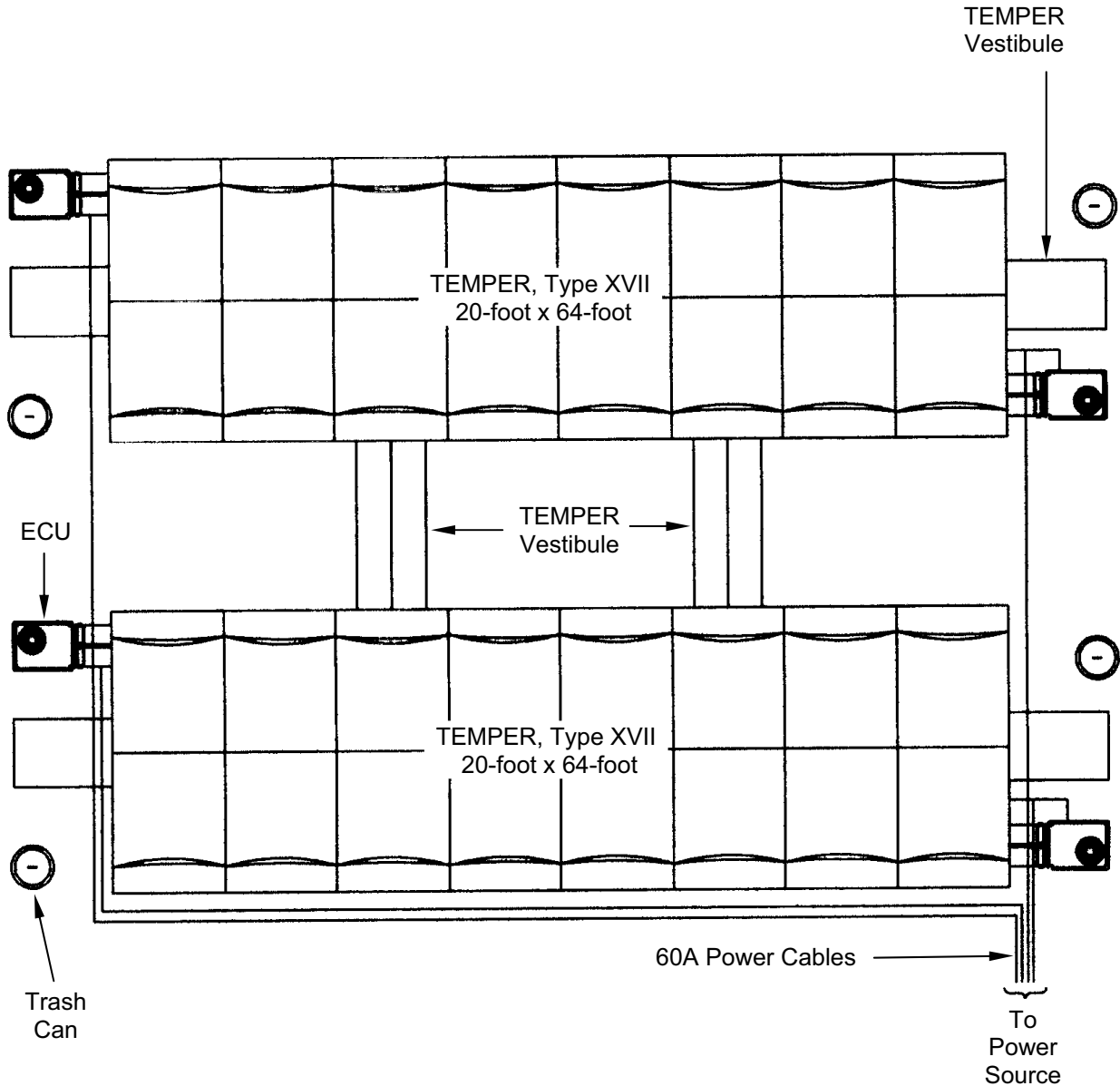
<b>REMAINING ADMINISTRATIVE SUPPORT KIT ITEMS</b>		
DOOR, DOUBLE BUMP-THROUGH, CL A, GREEN	TM 10-8340-224-13	4
DOOR, DOUBLE BUMP-THROUGH, CL A, GREEN	TM 10-8340-224-13	3
BENCH, 6 FT	WP 0096 00, COEI, Item 28	2
TABLE, FOLDING, 6 FT, ALUMINUM	WP 0096 00, COEI, Item 35	6
COVER, CAN, ASH AND GARBAGE	WP 0096 00, COEI, Item 31	30
CAN, ASH AND GARBAGE, 32 GALLON, GALVANIZED	WP 0096 00, COEI, Item 30	30

Table 6. Inventory List for MWR/Administration ECU Kit TRICON 12C.

<b>Subcomponent</b>	<b>Where Listed/Illustrated</b>	<b>Qty</b>
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, SHIPPING AND STORAGE	WP 0085 00, COEI, Item 4	4
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	4
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
<b>AIR CONDITIONER, 54 K BTUH, 208V, 3 PHASE, 50/60 HZ, HORIZONTAL</b>	WP 0096 00, COEI, Item 29	2
COVER, DUCT	TM 10-5419-206-23P	4
DUCT HOLDER - 7 FT	TM 10-5419-206-23P	2
DUCT HOLDER - 9 FT	TM 10-5419-206-23P	2
DUCT, FLEXIBLE - 7 FT	TM 10-5419-206-23P	2
DUCT, FLEXIBLE - 9 FT	TM 10-5419-206-23P	2
PULLEY BUSHING (50HZ OPERATION)	TM 10-5419-206-23P	2
PULLEY (50HZ OPERATION)	TM 10-5419-206-23P	2
HOSE ADAPTER, DRAIN	TM 10-5419-206-23P	4
TUBING, SILICONE, 15 FT	TM 10-5419-206-23P	4
DEBRIS SCREEN, AIR CONDITIONER DUCT	TM 10-5419-206-23P	2
TECHNICAL MANUAL, AIR CONDITIONER, 54,000 BTU/HR TM 9-4120-398-14 OR TM 9-4120-411-14	WP 0096 00, BII, Item 4	2
<b>REMAINING ECU KIT ITEMS</b>		
TRUNK, LOCKER (FOR USE WITH BILLETING SUBSYSTEM)	WP 0096 00, COEI, Item 36	10
CHAIR, FOLDING, STEEL	WP 0096 00, COEI, Item 33	14
EXTENSION CORD, 50 FT, #12 AWG/3	WP 0096 00, COEI, Item 32	1
GLOVE, INSERT, COTTON	WP 0097 00, COEI, Item 3	1
TRIPOD FLOODLIGHT, 1000W	WP 0097 00, COEI, Item 1	1

### MWR SUBSYSTEM LAYOUT

The suggested MWR Subsystem layout is illustrated below; however, the layout can be altered to accommodate specific geographical location, terrain features, road network, traffic patterns, or mission requirements. If an altered layout is required, it should be determined during the site planning process described in WP 0022 00.



MWR Subsystem Layout.

**ASSEMBLY AND PREPARATION FOR USE OF MWR TEMPER**

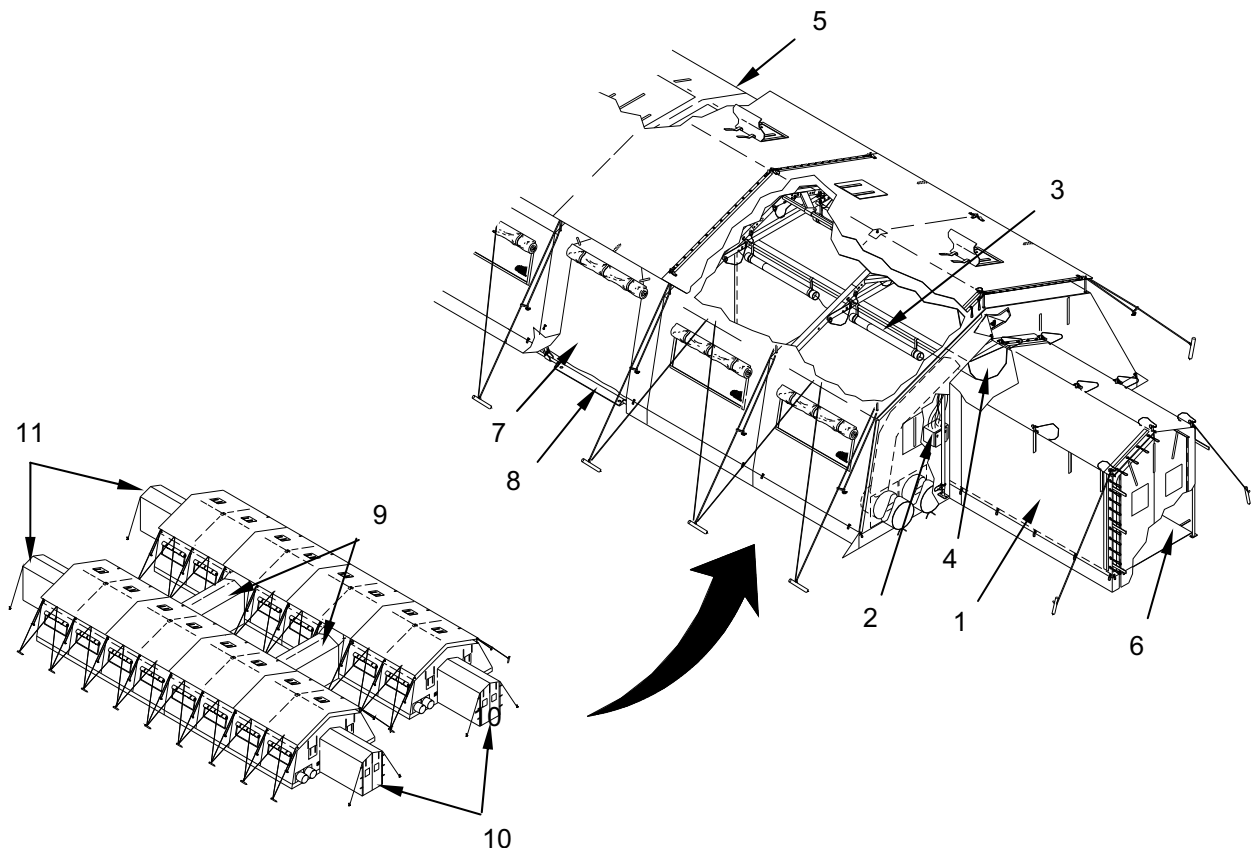
1. The Type XVII, 20-foot x 64-foot TEMPER should be erected as outlined by the staking diagram shown in WP 0022 00.

**NOTE**

Contents of one type 12A container are required for each of two 20-foot x 64-foot MWR TEMPER. To simplify setup, do not pool or mix contents of different containers.

Sledge hammers and mallets for driving tent stakes are provided in 12A and 12F containers.

2. Use procedures found in TM 10-8340-224-13 to erect two complete 20-foot x 64-foot TEMPER, including end wall vestibules (1), power control (2) and lights (3), end wall plenums (4), liners (5), and floors (6). Note the locations of door sections (7) and ensure doorsill purlins (8) are installed at these locations.
3. Join two, 20-foot x 64-foot TEMPER together with vestibules (9) in two places.
4. Install double bump through doors (10) on end wall vestibules (11).



**ASSEMBLY AND PREPARATION FOR USE OF MWR POWER SUPPLY****WARNING**

Power to a FP Module can be provide by a commercial source, or generated by either the MSPG, or MSPP. In each case, power will be supplied to the PDISE for distribution to the user. It is the responsibility of individual subsystem personnel to lay out and assemble the requisite cables to the PDISE for connection. Personnel of the Force Provider Company Facilities Support Section are responsible for facilitating power supply to the PDISE. Only qualified personnel must connect user cables to the PDISE and pigtails to the power source. Failure to observe this warning may result in severe injury or death by electrocution.

The following procedure assumes the Administration Subsystem consists of two 20-foot x 64-foot TEMPER positioned as specified by the staking diagram in WP 0022 00. Assemble the power supply equipment for the MWR Subsystem as follows:

1. Position two PDISE-M100 (1) at staking point I, Power Source Control Point, or approximately 90-feet from power source (2).

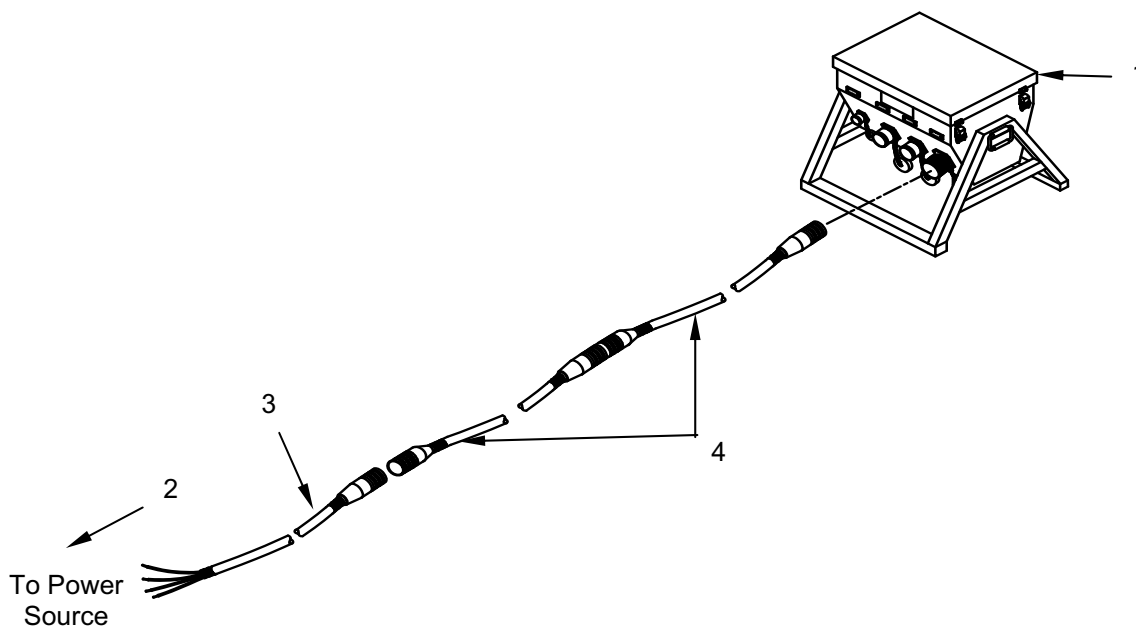
**CAUTION**

Keep cables away from vehicle traffic. Damage to cables may result.

**NOTE**

When assembling power equipment, follow procedures for laying out cables from power source to point-of-use, then connecting cables from point-of-use back to power source. Male ends of cables always go toward power source.

2. Position a 100-A/4-foot pigtail (3) and two 100-A/50-foot service cables (4) on the power source side of each PDISE-M100 (1). These cables will be laid out and connected to the PDISE-M100 (1) and power source (2) by facilities support section personnel.



- Lay out 60-A/100-foot power cables (5) from each PDISE-M100 (1) to one of the four TEMPER power controls (6). Pass cables under TEMPER end wall.

**CAUTION**

Connect all loose dust caps after connecting cables. Dirt and water may cause damage to electrical connections.

- Insert female end of 60-A/100-foot power cables (5) firmly into POWER IN receptacle of TEMPER electrical power distribution box (6) and secure with lock rings. Connect dust caps together.
- Connect 60-A/100-foot power cables (5), if more than one is used, together and secure with lock rings. Connect dust caps together.
- Ensure all circuit breakers in PDISE-M100s (1) are set to OFF position.

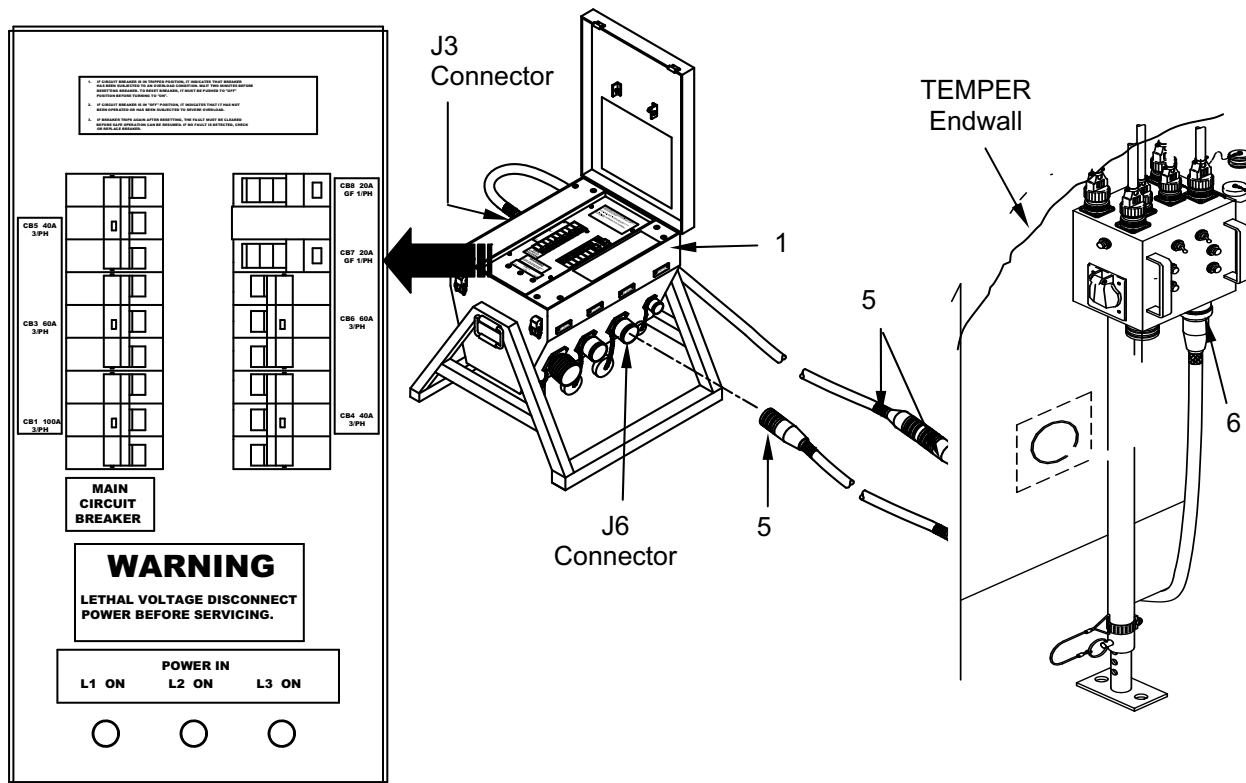
**NOTE**

Each PDISE-M100 (1) will service one, Type XVII, 20-foot x 64-foot TEMPER.

- Connect one, 60-A/100-foot power cable (5) pair to the J3, and a second pair of 60-A/100-foot power cables (5) to the J6, 60-A Connectors on each PDISE-M100 (1) and secure with lock rings. Connect dust caps together.

**NOTE**

Also refer to Illustration MWR TENT PAIR POWER LAYOUT.



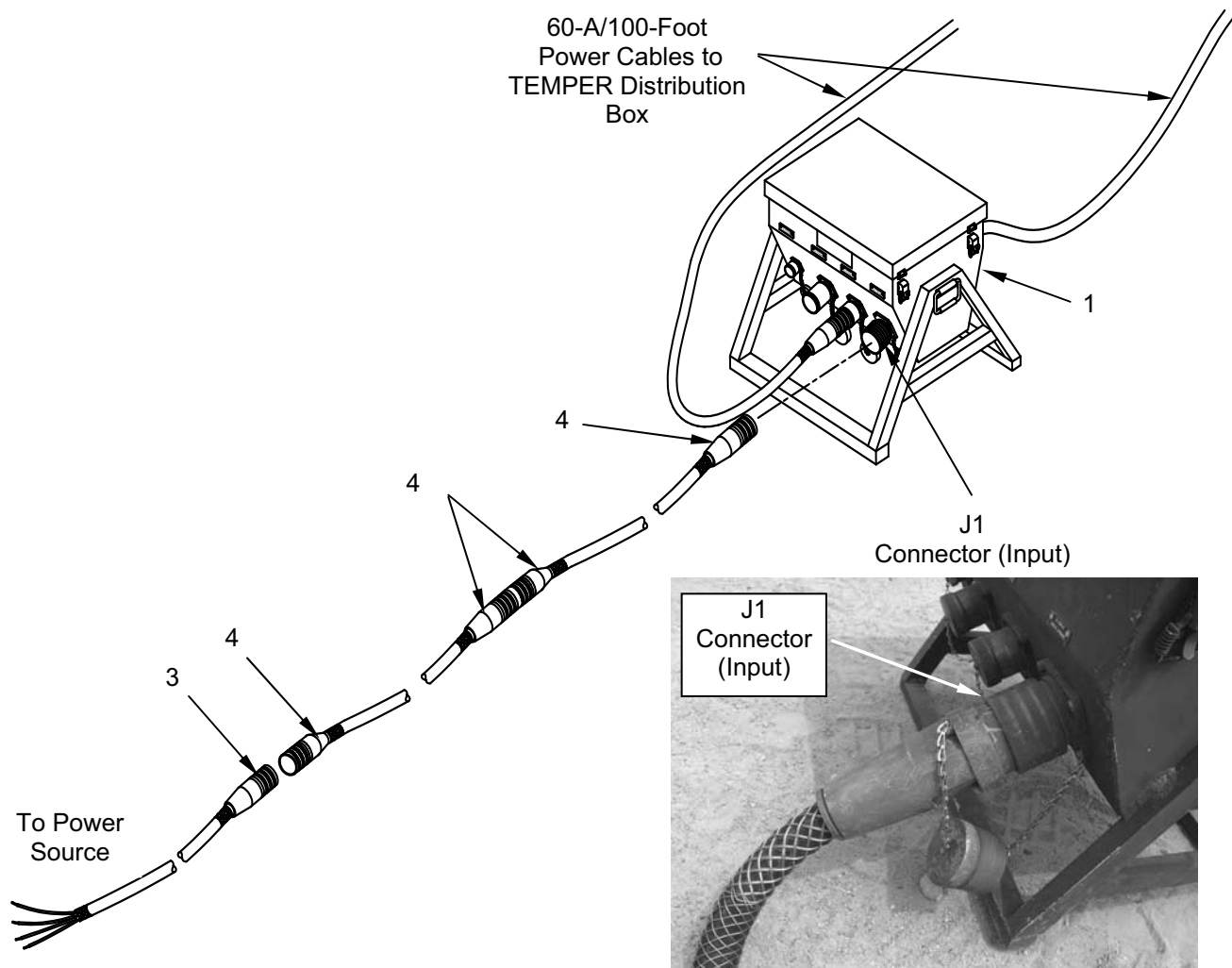




## WARNING

Only qualified personnel must connect service cables to PDISE-M100 and pigtails to power source. Failure to observe this warning may result in severe injury or death by electrocution.

1. Connect 100-A/50-foot service cable (4) to the J1, 100-A Input connector on the PDISE-M100 (1) and secure with lock rings. Connect dust caps together.
2. Connect a second 100-A/50-foot service cable (4) to the first. Connect dust caps together and secure with lock rings.
3. Connect a 100-A/4-foot pigtail (3) to each of the three assembled pairs of 100-A/50-foot service cables (4) and secure with lock rings. Connect dust caps together.
4. Once the power source has been set up, or designated, connect the four 100-A/4-foot pigtails (3) to the power source.

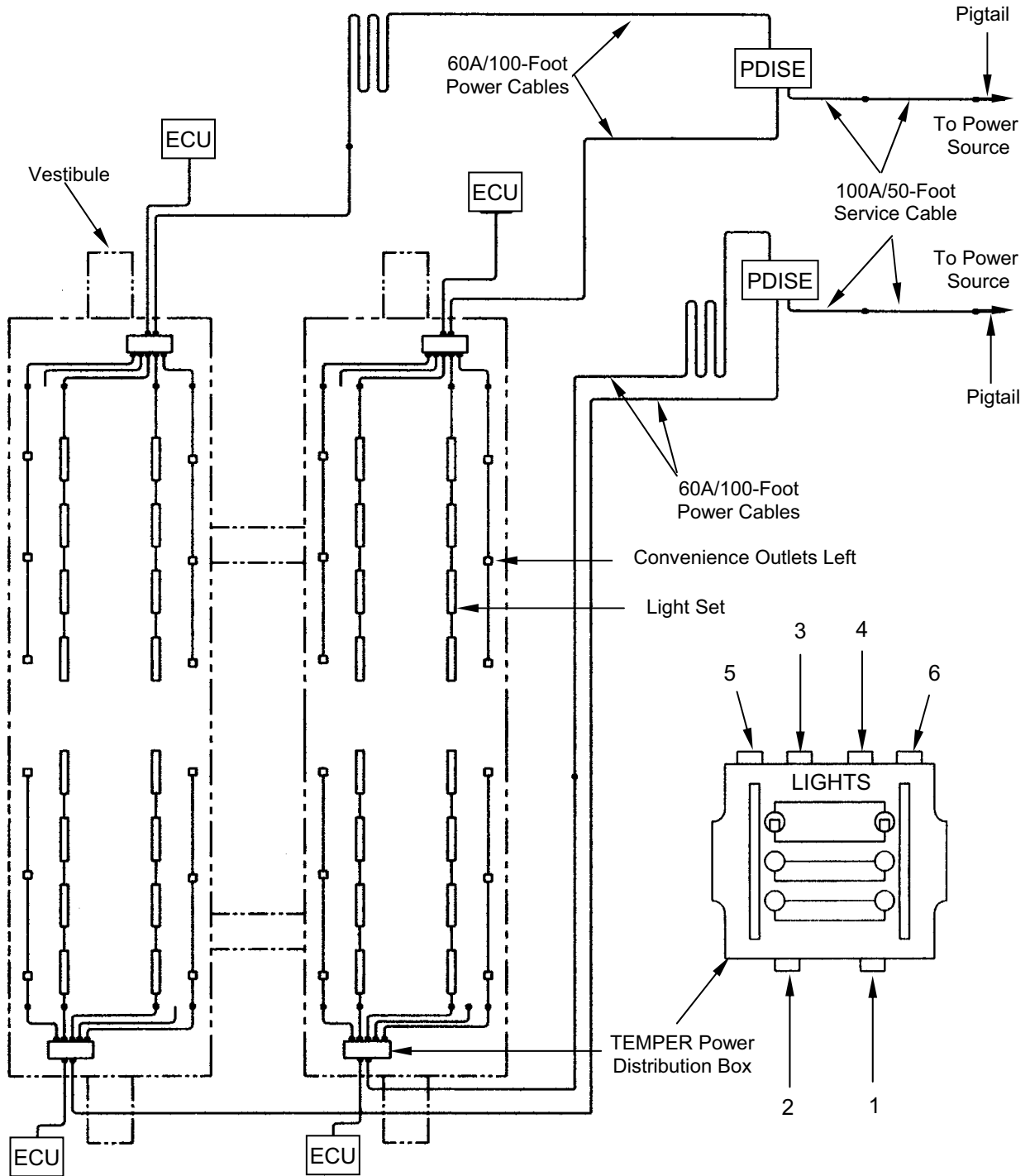


Make connections to the TEMPER power distribution box as follows:

**CAUTION**

Ensure power switches on power distribution box are off before connecting power cable to the J1 connector.

1. With power switches on the power distribution box turned OFF, connect the 60 A/100-foot power cable to the J1 Power-In Connector (1) located on the bottom of the power distribution box.
2. Connect the ECU power cable to the J2 Power-Out Connector (2) located on the bottom of the power distribution box.
3. Connect the 103-inch light set cable assembly (3) to the J5 connector and the 173-inch light set cable assembly (4) to the J6 connector located on top of the power distribution box.
4. Connect the power cord of the left light set string to the 103-inch light set cable assembly and the power cord of the right light set string to the 173-inch light set cable assembly.
5. Connect the 156-inch outlet cable assembly (5) to the J7 or J9 connector and the 254-inch outlet cable assembly (6) to the J8 or J10 connector located on top of the power distribution box.
6. Connect the left convenience outlet assembly (3 Drop) to the 156-inch outlet cable assembly (5) and the right convenience outlet assembly (3 Drop) to the 254-inch outlet cable assembly (6).
7. Connect refrigerators to the nearest PDISE, using 25-foot extension cords provided.
8. When power is available, turn on power switches on distribution box to operate components as needed.

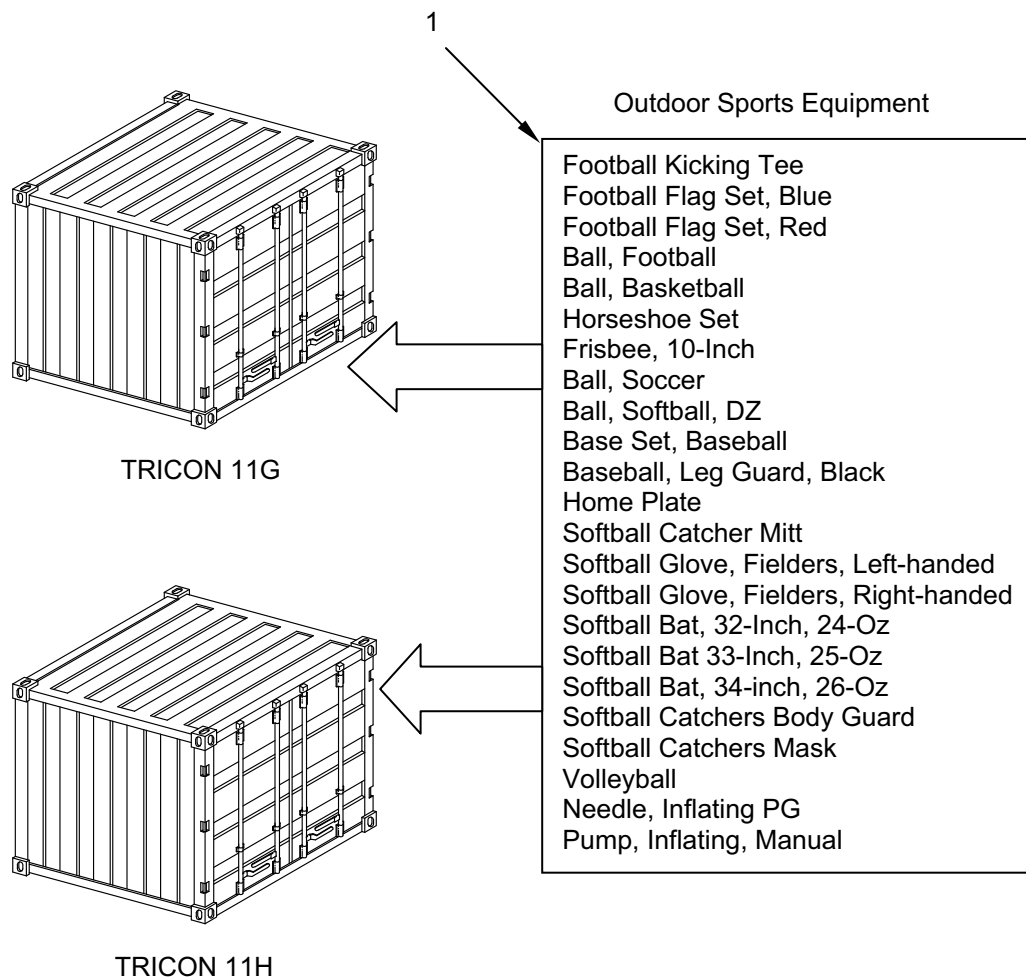


MWR Tent Pair Power Layout.

**MWR SUGGESTED EQUIPMENT LAYOUT**

To accommodate the various functions which the MWR facility was designed to provide, the following layout is suggested. However, the facility should be arranged to best suit the local, desired functions.

1. Store Outdoor Sports Equipment (1) in TRICON 11G and 11H, positioned as shown in layout.
2. Lay out floormats (2) in MWR TEMPER before moving in other equipment.
3. Position tables (3), chairs (4), table tennis equipment (5), audiovisual equipment (6), library furniture (7) popcorn machine (8), refrigerator (9), public address system equipment (10), benches (11) games (12), and trash can with lid (13) as shown.
4. Place physical fitness equipment (14) in the area designated for its use.
5. Position fire extinguisher (15), and TEMPER maintenance equipment near the entrance in each TEMPER.
6. Place the satellite dish equipment (16) outside the TEMPER.



Physical Fitness Equipment (14)

- Abdominal Sit-up Board
- Bench, Curl
- Bench, Seated, Gymnastic
- Bench, Weightlifter Press
- Squad Rack, Gymnastic
- Barbell, Plate Holder
- Barbell, International Curl Bar
- Barbell Plates, Gymnastic
- Barbell 6-In Chrome Bar
- Barbell Spring Collar
- Wrap Pad Bar Gymnastic
- Belt, Weight Lifting, Various Sizes, Qty 4
- Dumbbell, Various Weights, Qty 21
- Dumbbell Rack
- Towel, Bath, Cotton
- Truck, Hand, Box, Laundry

Games (12)

- |                       |                      |
|-----------------------|----------------------|
| Game, Dominoes        | Cards, Bridge/Poker  |
| Game, Monopoly        | Cards, Pinochle      |
| Game, Risk            | Game Chips           |
| Game, Scrabble        | Game Backgammon      |
| Game, Trivial Pursuit | Game, Chess/Checkers |
| Game, UNO Delux       | Game, Cribbage       |
| Game, Yahtzee         | Game, Dice, Box      |

TEMPER Maintenance (15)

- Fire Extinguisher
- Shovel
- Sledge Hammer
- Mallet, Wood
- Broom

Public Address System (10)

- Microphone Stand w/Boom
- Microphone, Hand
- Stand, Speaker
- Cover Loud Speaker
- Cable Extension, Speaker
- Cable Extension, Microphone
- Bag, Speaker, Stand
- Public Address System

Audiovisual Equipment (6)

- Satellite Decoder
- Video Player
- Projector Multimedia
- Bag Projector Video
- VHS Tape, Cleaning
- Cart, AV Adjustable
- Projector Screen

Satellite Dish Equipment (16)

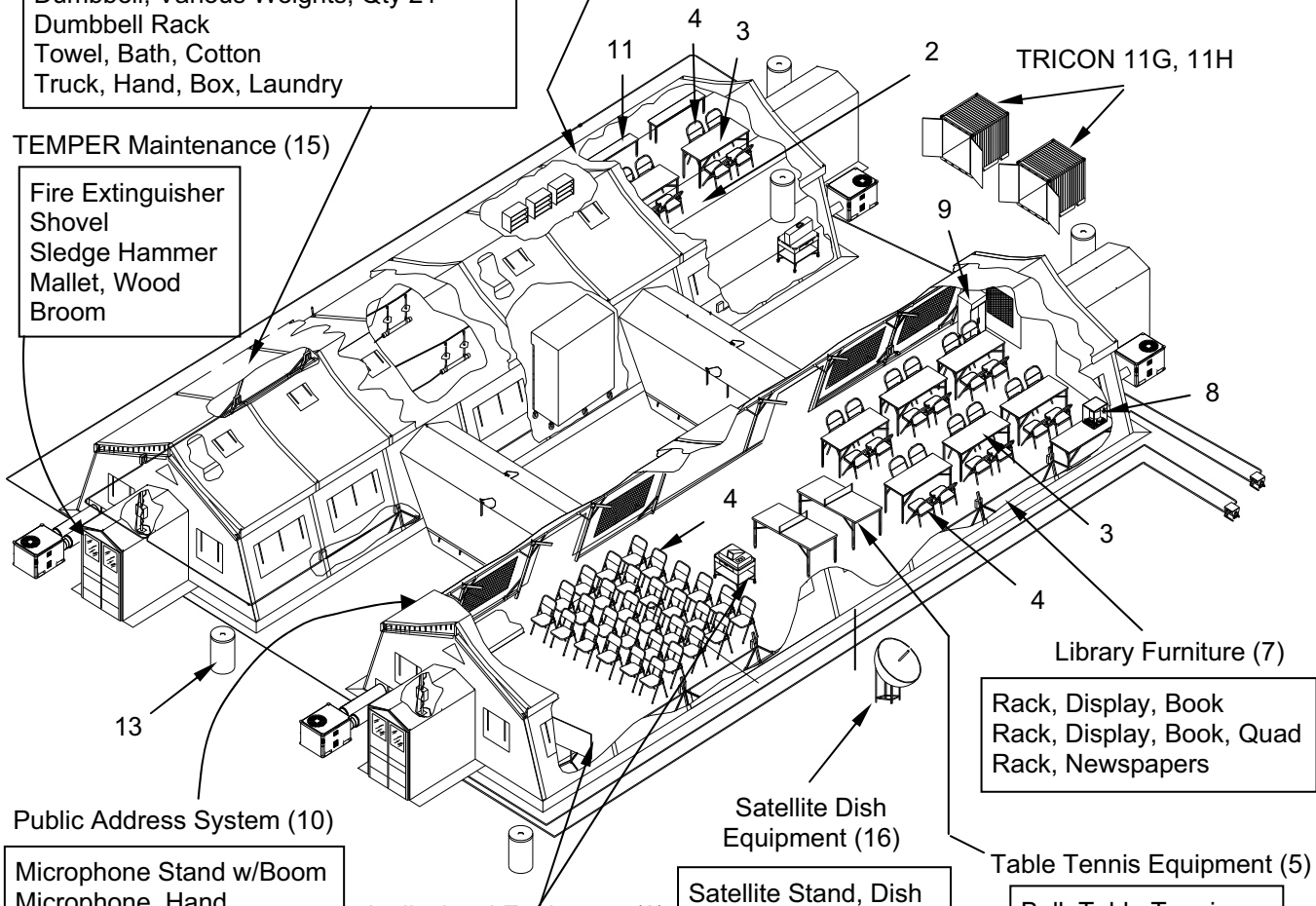
- Satellite Stand, Dish
- Satellite Dish
- Satellite LNB C-Band

Table Tennis Equipment (5)

- Ball, Table Tennis
- Net, Table Tennis
- Paddle, Table Tennis
- Table, Table Tennis

Library Furniture (7)

- Rack, Display, Book
- Rack, Display, Book, Quad
- Rack, Newspapers



## ASSEMBLY AND PREPARATION OF ECU

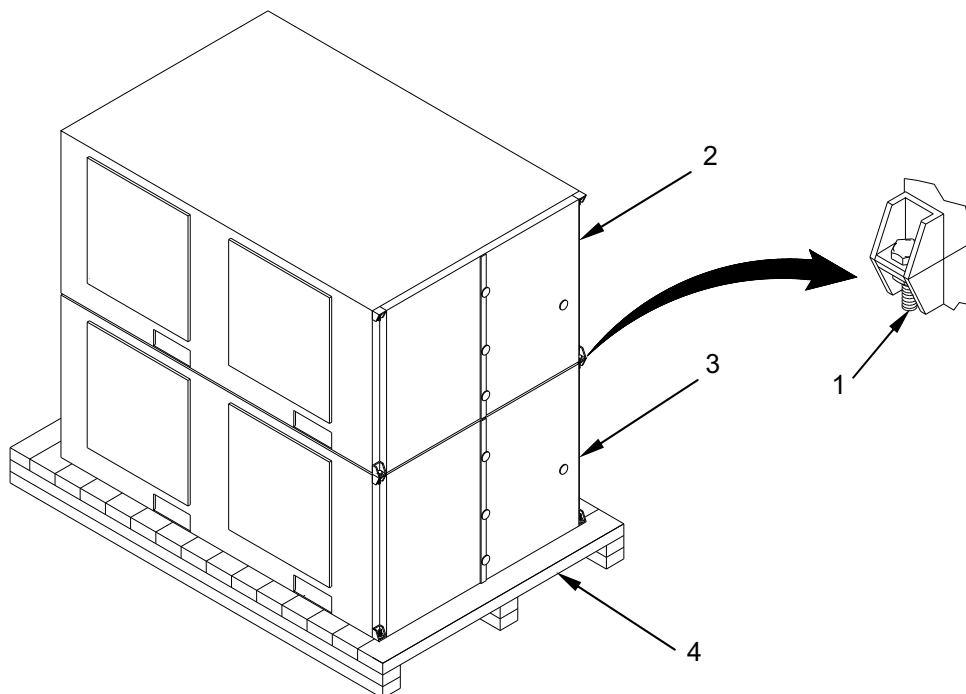
The MWR subsystem ECU are shipped in containers shared with the administration subsystem (TRICON 12C and 12E). Coordinate with administration subsystem personnel to retrieve this equipment.

### NOTE

The following instructions for the assembly and preparation for use of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-6408) is at hand, assemble, install, operate, and maintain it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are at hand, assemble, install, operate, and maintain them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions furnished herein.

Installation and use of ECU is optional, or may be deferred. Use the following procedures when installing ECU.

1. Remove ECU pallet from TRICON 1B. Remove preservation materials.
2. Remove four nuts, bolts, and washers (1) that secure ECU (2) and (3) together.
3. Use forklift to lift top ECU (2) off lower ECU (3).
4. Install nuts, bolts, and washers (1) back onto lower ECU (3) for future use.
5. Leave pallet (4) attached to lower ECU (3).



**Set up ECU as follows:****NOTE**

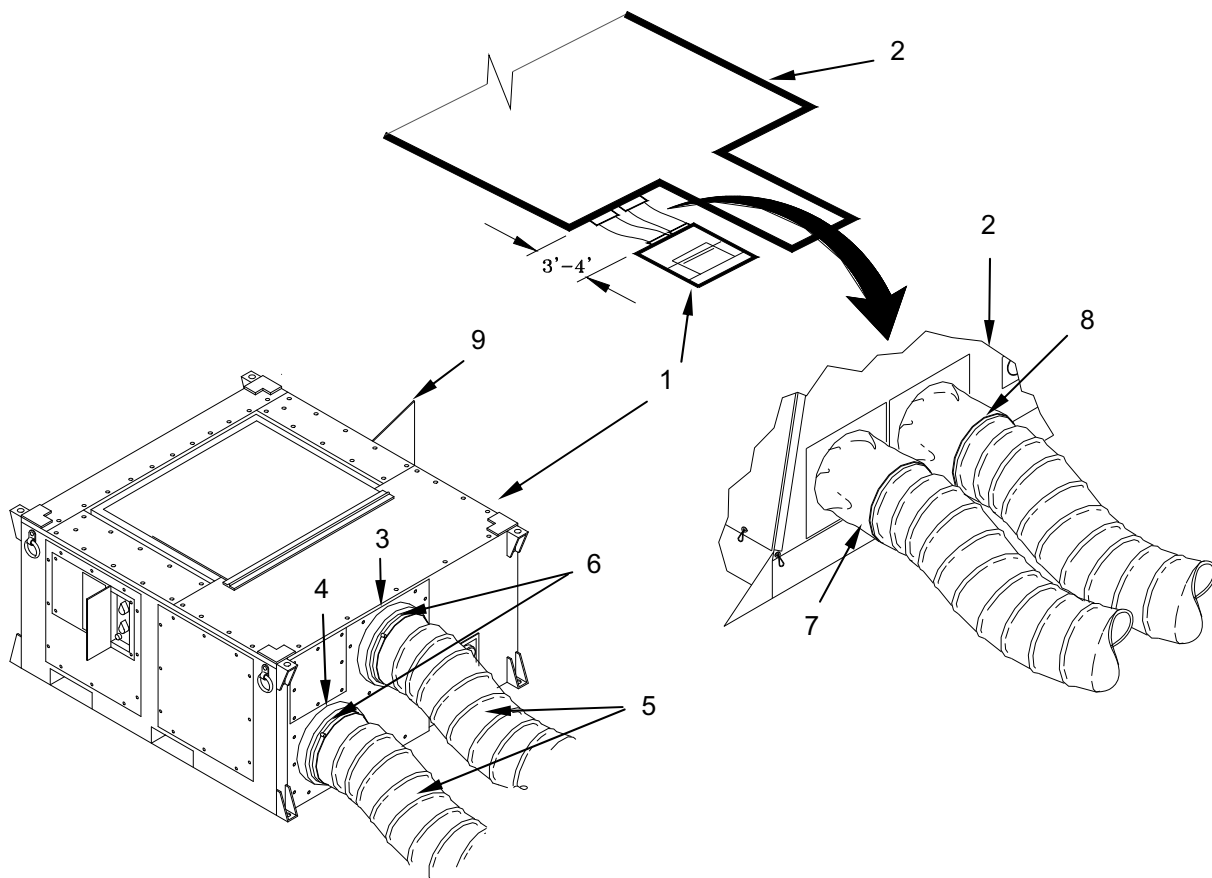
Leaving pallet attached to ECU or using lumber or dunnage between ECU and ground will help to prevent corrosion during long deployments.

1. Obtain lumber or dunnage (several 2-inch x 4-inch pieces are sufficient) on which to set ECU if no pallet is attached.
2. Position each ECU on dunnage or pallet at prepared site (1), three to four-feet from end wall of TEMPER (2), with supply (3) and return (4) duct ports facing TEMPER (2).
3. Remove ducts (5) from ECU by opening hinged panel on rear storage compartment (9). Retrieve ducts and racks. Remove ducts from racks and store racks in condenser compartment.

**NOTE**

Observe that airflow directional arrow on ducts are facing in correct direction.

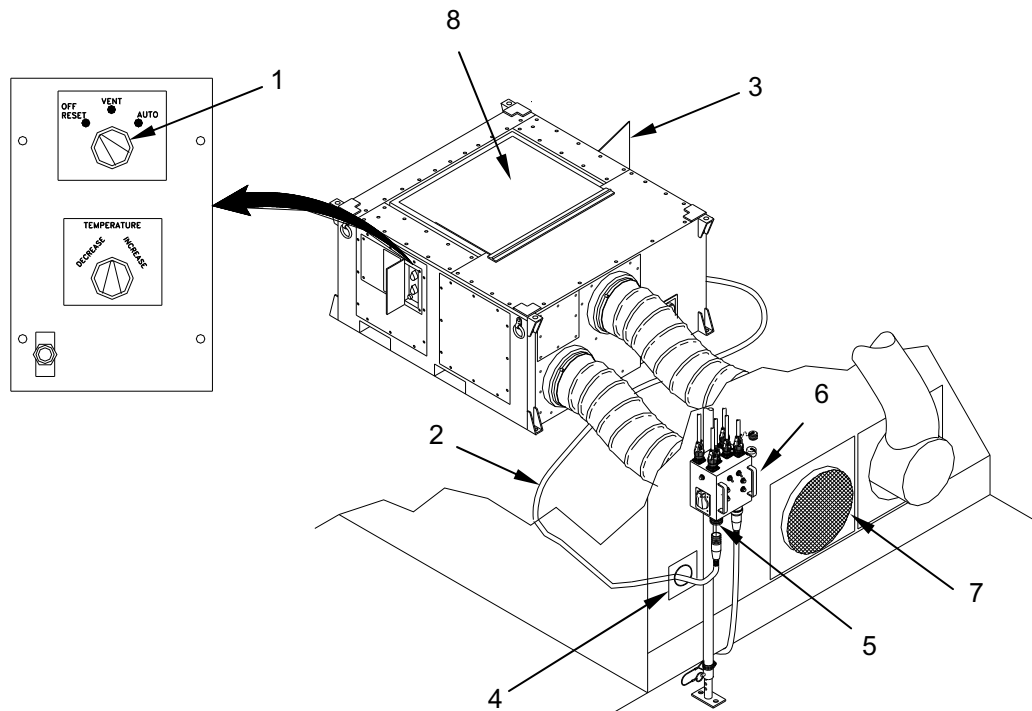
4. Place the 9-foot duct in the correct direction onto the supply (3) and the 7-foot duct to the return (4) flanges on the ECU. Tighten hose clamps (6) on flanges.
5. Attach ECU supply duct (3) to the TEMPER duct (7) that has plenum attached.
6. Attach ECU return duct (4) to the TEMPER duct (8) that does not have plenum attached.
7. Install the condenser drain hose.



**NOTE**

Ensure mode selector switch (1) is set to OFF-RESET position.

8. Remove ECU power cable (2) from condenser compartment door storage box (3).
9. Route ECU power cable (2) through TEMPER cable sock (4) or between end section and floor, and connect to POWER OUT (J2) receptacle (5) on TEMPER power distribution box (6). Connect dust caps together.
10. Install debris screen (7) on return duct.
11. Release and flip the condenser fan cover (8).
12. Ensure all doors are closed and secured.

**OPERATING INSTRUCTIONS FOR MWR SUBSYSTEM**

Operate the MWR Subsystem by following the procedures in the component technical manuals listed below. Ensure the interior of the TEMPER are cleaned on a daily basis.

**OPERATING PROCEDURES FOR MWR TEMPERS**

Operate MWR TEMPER in accordance with TM 10-8340-224-13.

**OPERATING PROCEDURES FOR PDISE M100**

Operate the PDISE in accordance with TM 9-6150-226-13.



**OPERATING PROCEDURES FOR ECU****NOTE**

If ECU Model AH-54 (NSN 4120-01-432-6408) is at hand, operate it in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-0459) are used, operate them in accordance with TM 9-4120-411-14. Otherwise, follow the instructions below.

**Initial Adjustments and Checks**

1. Ensure power cable has been connected to a 208/230-V, 3 Phase, 50/60-Hz power source.
2. Inspect all covers, panels, grilles, and screens for loose mounting, obstructions, preservation material, or shipping damage. Report damage to supervisor.

**Operation in Ventilate Mode**

1. Turn mode selector switch (1) to VENT position.

**NOTE**

When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

2. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

**Operation in Automatic Mode****CAUTION**

Compressor can be damaged if started with liquid refrigerant in crankcase. Power must be connected to ECU for a period of not less than 5 hours before starting in automatic mode. Do not operate the ECU in the automatic mode for cooling when the outside air temperature is below 50 °F. Under these conditions, operate in the ventilate mode and admit fresh air as required to maintain desired temperature in the conditioned space.

1. Turn mode selector switch (1) to AUTOMATIC position.
2. Turn TEMPERATURE control (3) toward DECREASE or INCREASE as necessary to adjust and maintain the desired temperature in the conditioned space. When adjusting the TEMPERATURE control, the ECU must be given adequate time to change the temperature in the conditioned space before making additional adjustments. The temperature control has a range of 40 °F to 90 °F (5 °C to 32 °C) with the mid-point being approximately 65 °F (18 °C). Turn mode selector switch (1) to AUTOMATIC position.

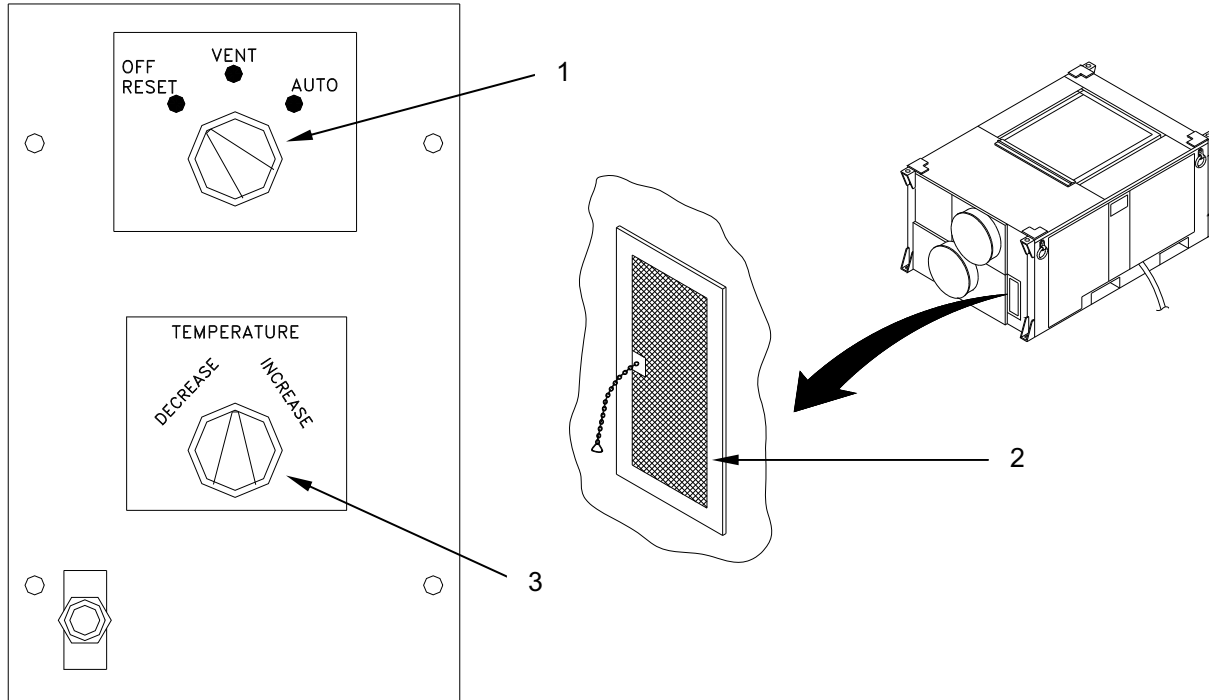
**NOTE**

When admitting fresh outside air into the conditioned space, a window, door, or vent must be opened slightly to allow circulation of air. A tightly sealed space will pressurize and prevent the flow of fresh air.

3. The fresh air damper (2) can be opened as needed to admit outside air into the conditioned space. Unhook the damper chain from its key slot and allow the hinge spring to pull the damper door open as needed. Hook the damper chain to hold the damper door in the desired position.

**Shutdown**

Turn mode selector (1) to the OFF/RESET position.



**END OF WORK PACKAGE**

**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS - FLOODLIGHT SUBSYSTEM**

**GENERAL**

This WP contains operating procedures for the floodlight subsystem. The floodlights are used during initial set up as well as during normal operation, where needed. The floodlights are not assigned to any specific facility or operation and can be located, or relocated as operations require. However, a suggested layout is provided in this WP. Refer to Table 1 to determine which TRICON contain floodlights.

**SCOPE**

Assembly and preparation for use of the floodlight subsystem consists of the following:

- Unpacking floodlights from TRICON identified in Table1.
- Assembly of floodlights as described in this WP.
- Staging the floodlights at locations where they are to be used.
- Connecting floodlights to a power source.
- Operating and adjusting lights for maximum effectiveness.

**UNPACKING AND INVENTORY**

**Table 1. Inventory List for Floodlight Subsystem Equipment.**

Component	(Number) Provided in TRICON			(Number) Provided as System Support Package in TRICON
FLOODLIGHT, PORTABLE, 1000-Watt, HEAVY DUTY (9-1-0769-1)	(1)01B-1	(1)01B-10	(1)10E-1	(3)11D-1
	(1)01B-2	(1)01B-11	(1)10E-2	
	(1)01B-3	(1)01B-12	(1)12C-1	
	(1)01B-4	(1)01B-13	(1)12C-2	
	(1)01B-5	(1)01B-14	(1)12C-3	
	(1)01B-6	(1)01B-15	(1)12C-4	
	(1)01B-7	(1)03B-1	(1)12C-5	
	(1)01B-8	(1)03B-2		
	(1)01B-9	(1)04C-1		
FLOODLIGHT, PORTABLE, 2000-Watt, HEAVY DUTY (9-1-0769-2)	(1)01B-1	(1)01B-9	(1)03B-2	(2)11D-1
	(1)01B-2	(1)01B-10	(1)04C-1	
	(1)01B-3	(1)01B-11	(1)10E-1	
	(1)01B-4	(1)01B-12	(1)10E-2	
	(1)01B-5	(1)01B-13		
	(1)01B-6	(1)01B-14		
	(1)01B-7	(1)01B-15		
	(1)01B-8	(1)03B-1		
LIGHT HEAD ASSEMBLY (REPLACEMENT)				(10)11D-1
BULB, HALOGEN, 500W (REPLACEMENT)				(50)11D-1
EXTENSION CORD, 50-FOOT, #12 AWG/3 (9-1-0856-1) (REPLACEMENT)				(5)11D-1
GLOVE, INSERT, COTTON, PR NSN 8415-00-782-2809 (REPLACEMENT)				(6)11D-1

To unpack the floodlight equipment, proceed as follows:

1. As part of unpacking the TRICON identified above, retrieve fiberboard boxes containing floodlights.
2. Open each fiberboard box and check its contents against one of the inventory lists below.

**Table 2. Floodlight Portable, 1000-Watt, Heavy Duty – Components.**

<b>Component</b>	<b>Quantity</b>
Tripod Assembly	1
Light Head Assembly (500W) (Floodlight Portable, 2 Light Set, Heavy Duty)	2
Halogen Bulbs (500W)	2
Power Cord (50-Foot) #12 AWG/3	1
Glove, Insert, Cotton (Pair)	1

**Table 3. Floodlight Portable, 2000-Watt, Heavy Duty – Components.**

<b>Component</b>	<b>Quantity</b>
Tripod Assembly	1
Light Head Assembly (500W) (Floodlight Portable, 4 Light Set, Heavy Duty)	4
Halogen Bulbs (500W)	4
Power Cord (50-Foot) #12 AWG/3	2
Glove, Insert, Cotton (Pair)	1

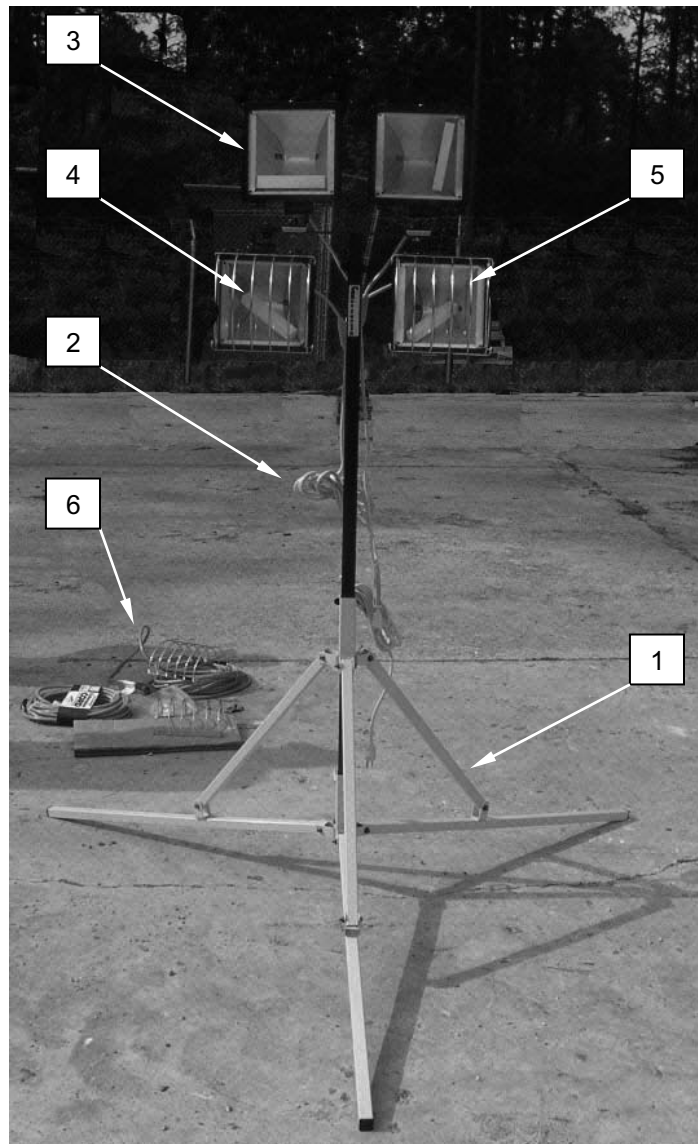
3. After unpacking, position all packing materials and fiberboard boxes back into the TRICON for use when repacking the equipment.

**ASSEMBLY AND PREPARATION FOR USE OF FLOODLIGHTS**

The subsystem provides twenty 2000-Watt and twenty-five 1000-Watt tripod mounted floodlights. An additional two 2000-Watt and three 1000-Watt floodlights are provided together with spare light heads, extension cords, 500-Watt Halogen bulbs, and cotton glove inserts required to change the bulbs, in the floodlight system support package (Refer to Table 1). The lights require a 120V, 60 Hz power source. Each floodlight consists of a tripod (1), power cord (2), 500-Watt light head (3), light bulb (4), light guard (5), and extension cord (6).

**NOTE**

2000-Watt Floodlight shown – 1000-Watt Floodlight version uses only two (bottom) light heads.



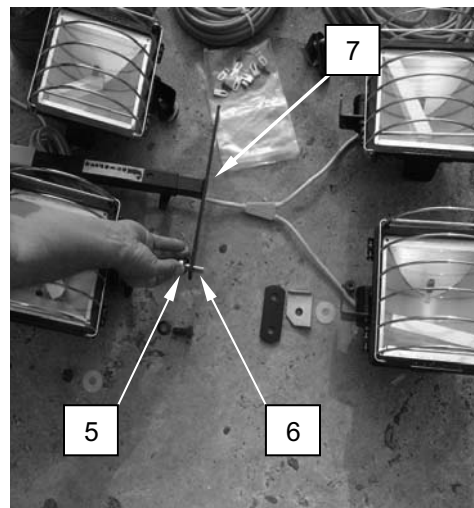
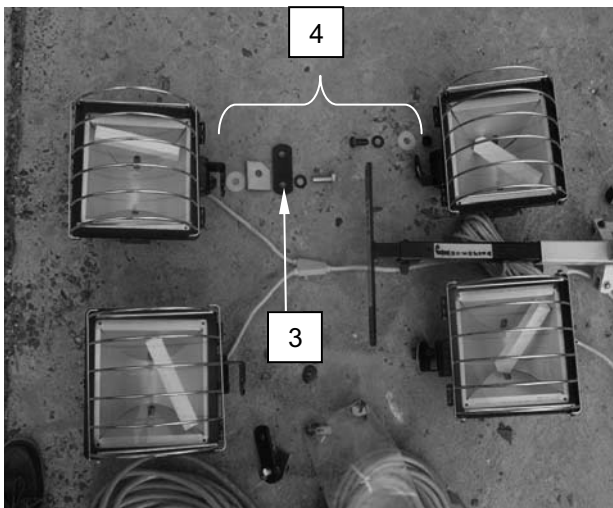
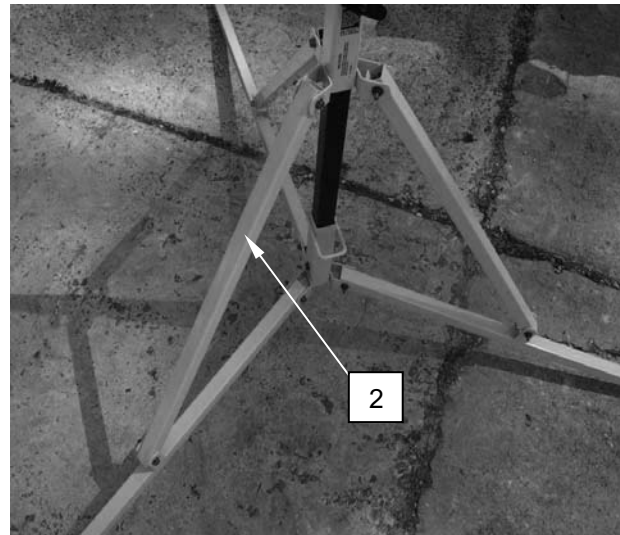
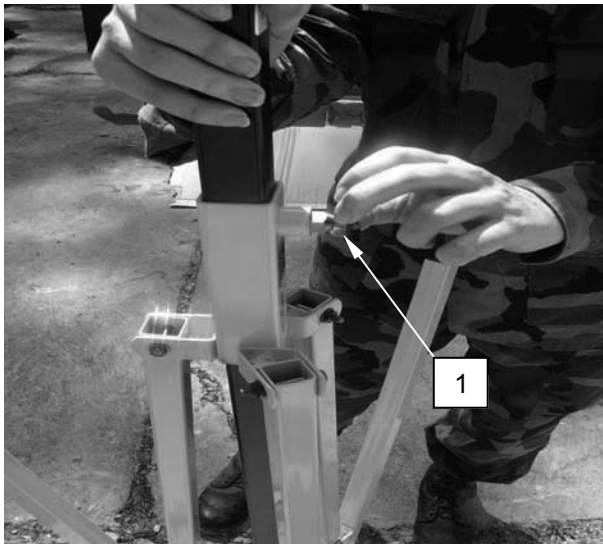
The floodlights are shipped partially assembled. To complete the assembly and prepare them for use, proceed as follows:

1. Stand the tripod upright and pull the plunger (1) on top of the leg assembly to allow the assembly (2) to unfold.

### NOTE

Procedures shown are for assembly of a 2000-Watt floodlight. To assemble a 1000-Watt floodlight, omit installation of the light head adapter bar (3). The lower light heads are not used in the 1000-Watt configuration.

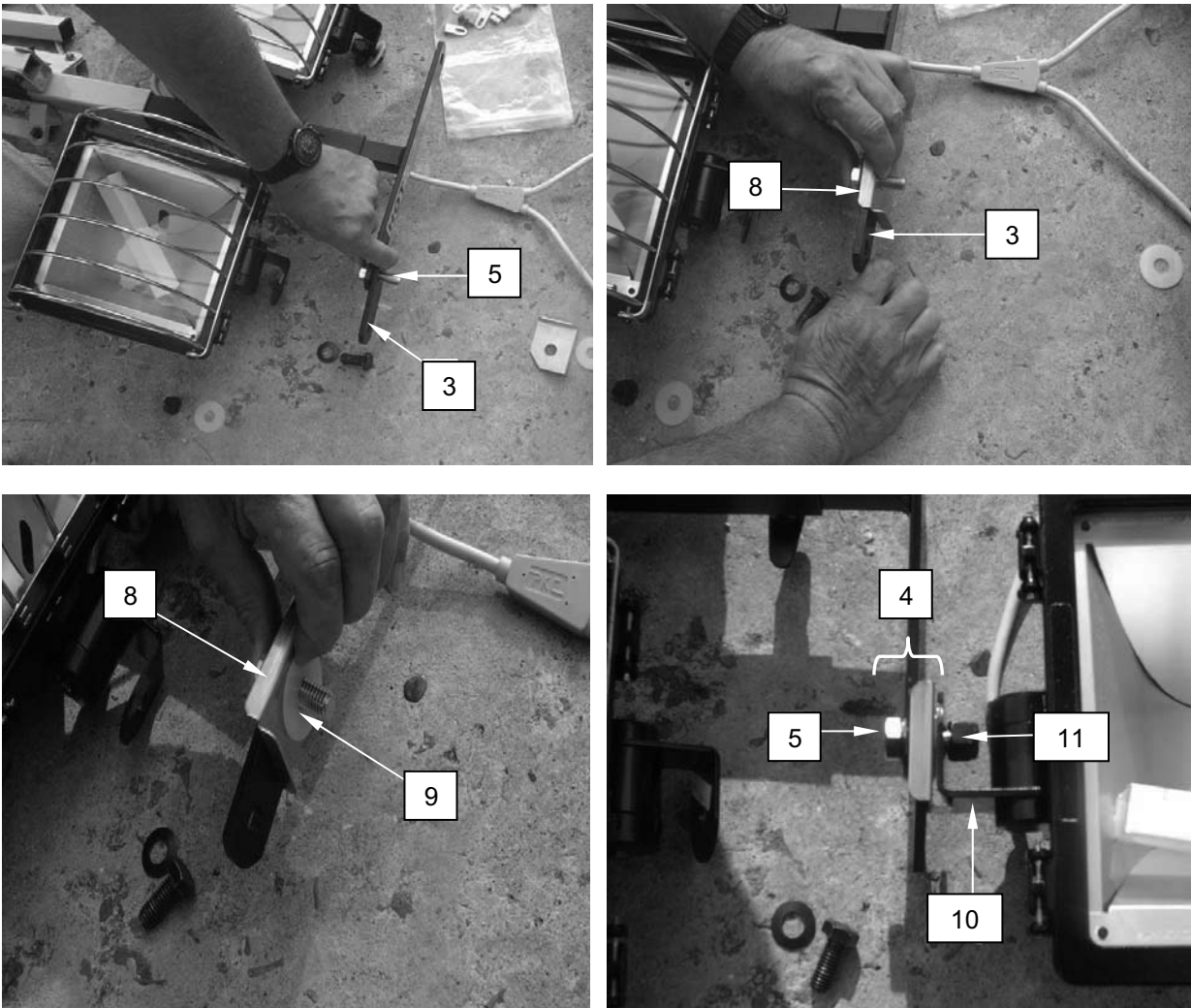
2. Lay out mounting hardware (4), including light head adapter bar (3), in the sequence of installation as shown.
3. Install the 1½-inch bolt (5) and washer (6) through the bottom of the mounting bar (7).



4. Slide the light head assembly adapter bar (3) over the 1½-inch bolt (5) and washer (6).
5. Slide the rotating stop (8) over the light head assembly adapter bar (3) as shown.
6. Place the nylon washer (9) over the rotating stop (8).
7. Holding the mounting hardware (4) in place while positioning the light head angle bracket (10) over the 1½-inch bolt (5) as shown, install the hex nut (11) and tighten sufficiently to secure the assembly.

### NOTE

Two each light head adapter bars, rotating stops, and 1<sup>1</sup>/<sub>8</sub>-inch screws are packed in the floodlight SSP to replace parts lost during shipping or assembly.

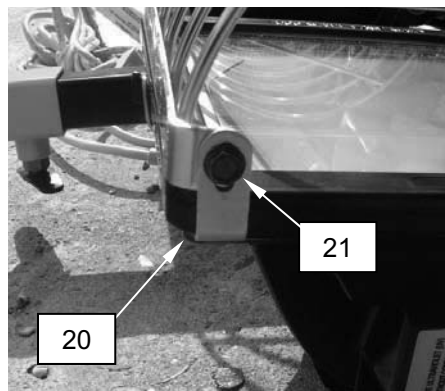
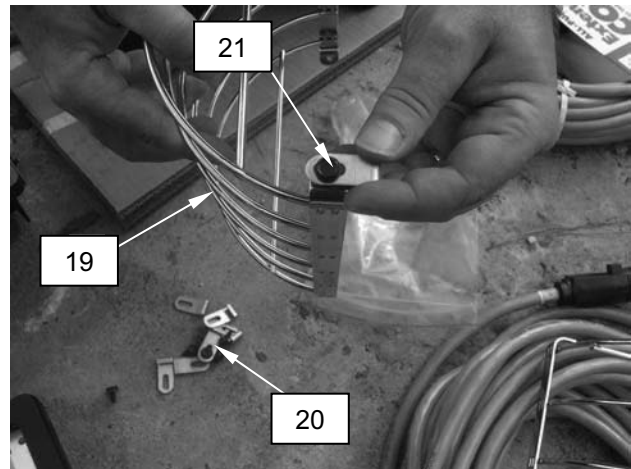
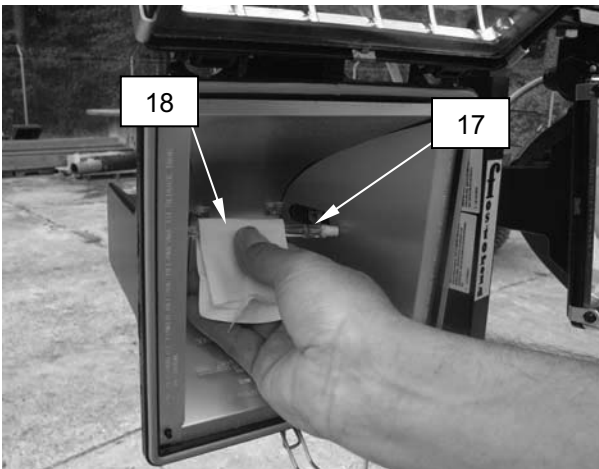
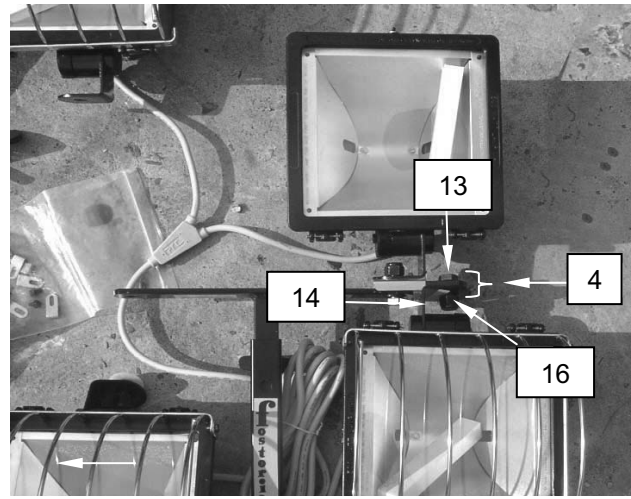
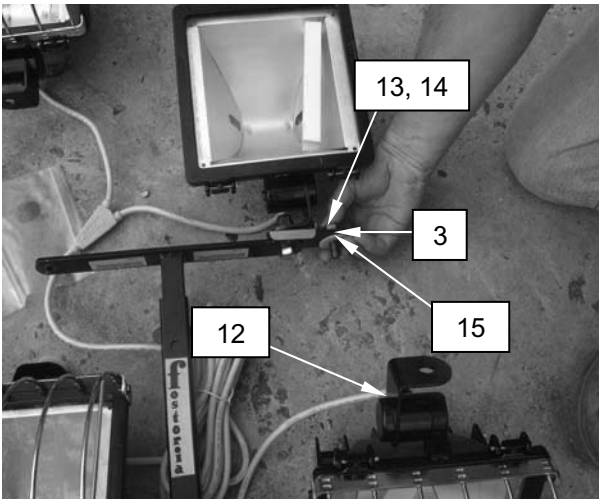


8. To install the lower light heads (12) Install the 1<sup>1</sup>/<sub>8</sub>-inch bolt (13) and washer (14) through the top of the bracket extension (3).
9. Place the nylon washer (15) over the 1<sup>1</sup>/<sub>8</sub>-inch bolt (13).
10. Hold the mounting hardware (4) in place while positioning the lower light head angle bracket (14) over the 1<sup>1</sup>/<sub>8</sub>-inch bolt (13) and nylon washer (15) as shown and install the hex nut (16). Tighten sufficiently to secure the assembly.

**CAUTION**

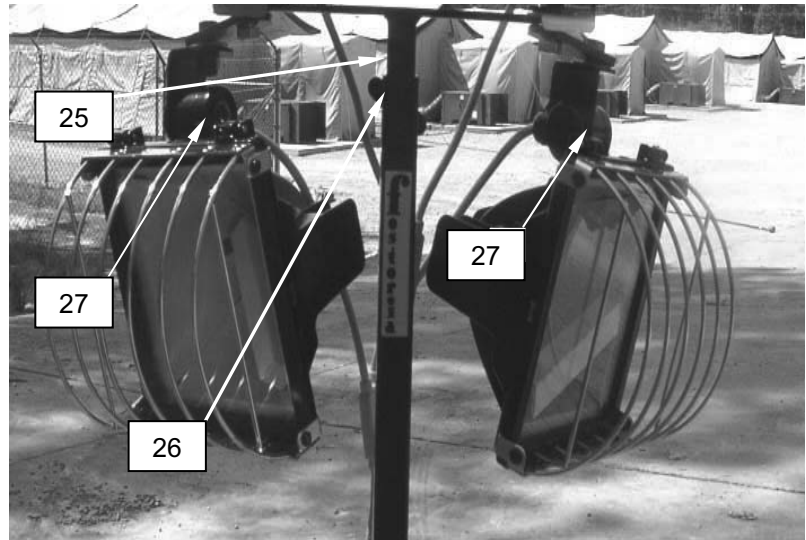
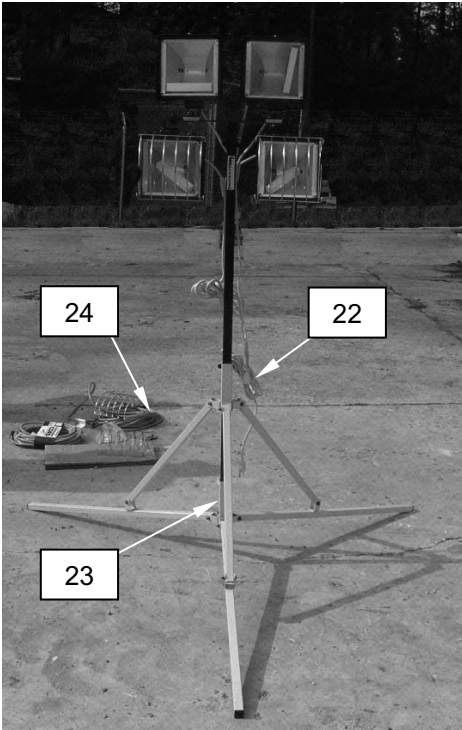
Flood light lamps will be damaged if touched with bare hands. Use cloth or gloves to install lamps.

11. Install the 500-Watt halogen light bulb (17) as shown using the cotton glove insert furnished or a piece of cotton cloth (18).
12. Install the lamp guards (19) as shown with the bars in the vertical position. Using the mounting brackets (20) and screws (21) provided.



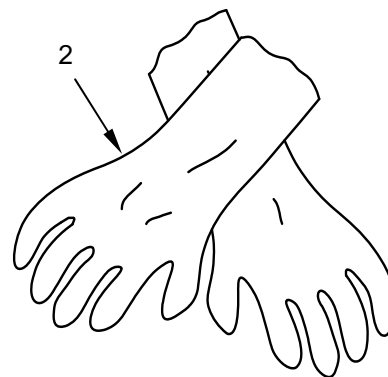
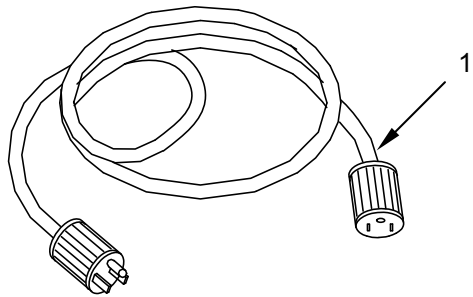


13. To connect the floodlight to a power source, unwrap the power cord (22) and run it through the cord guide (23) at the bottom of the unit. Use the 50-foot extension cords (24) provided to connect the floodlights to an appropriate power source supplying at least 120V, 60 Hz, Single Phase power.
14. To adjust the floodlight for maximum effectiveness, adjust the mast (25) by simultaneously pulling up on the inner mast, as well as the plunger (26) to release the mechanism. Release the plunger when desired height is obtained. To adjust the light head trunnion swivel (27), loosen the torque and adjust the light head as desired, then re-torque to secure trunnion.



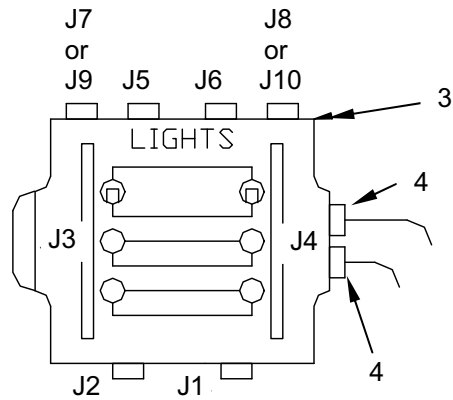
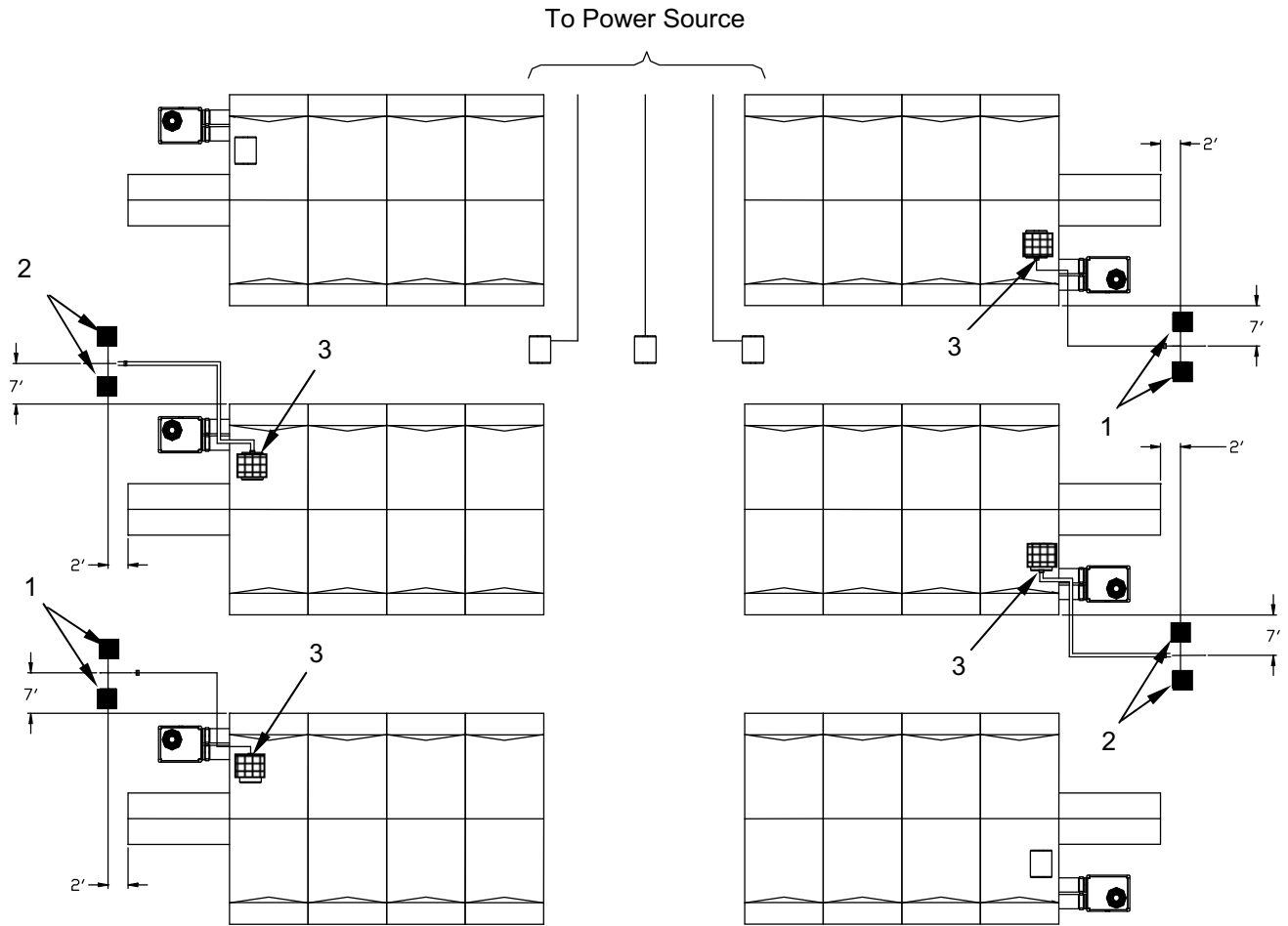
**FLOODLIGHT LAYOUT**

Following is a recommended layout of floodlights with indicated subsystems. Position individual floodlights as shown and connect to the identified power source using the extension cords (1) provided (The lights require a 120V, 60 Hz power). The specific setup or location of each floodlight can be changed to meet functional requirements dictated by the mission. Be sure to use a cloth or glove inserts (2) whenever the light bulbs require changing.

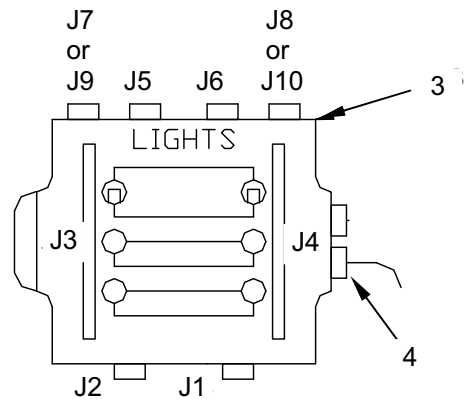


**Billeting and Administration**

Place the 1000-Watt Floodlights (1) and the 2000-Watt Floodlights (2) as shown below. Using the 50-foot extension cords, connect the floodlights to the TEMPER Power Distribution Box (3) J-4 connectors (4) as shown.



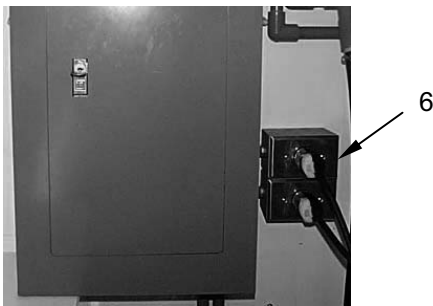
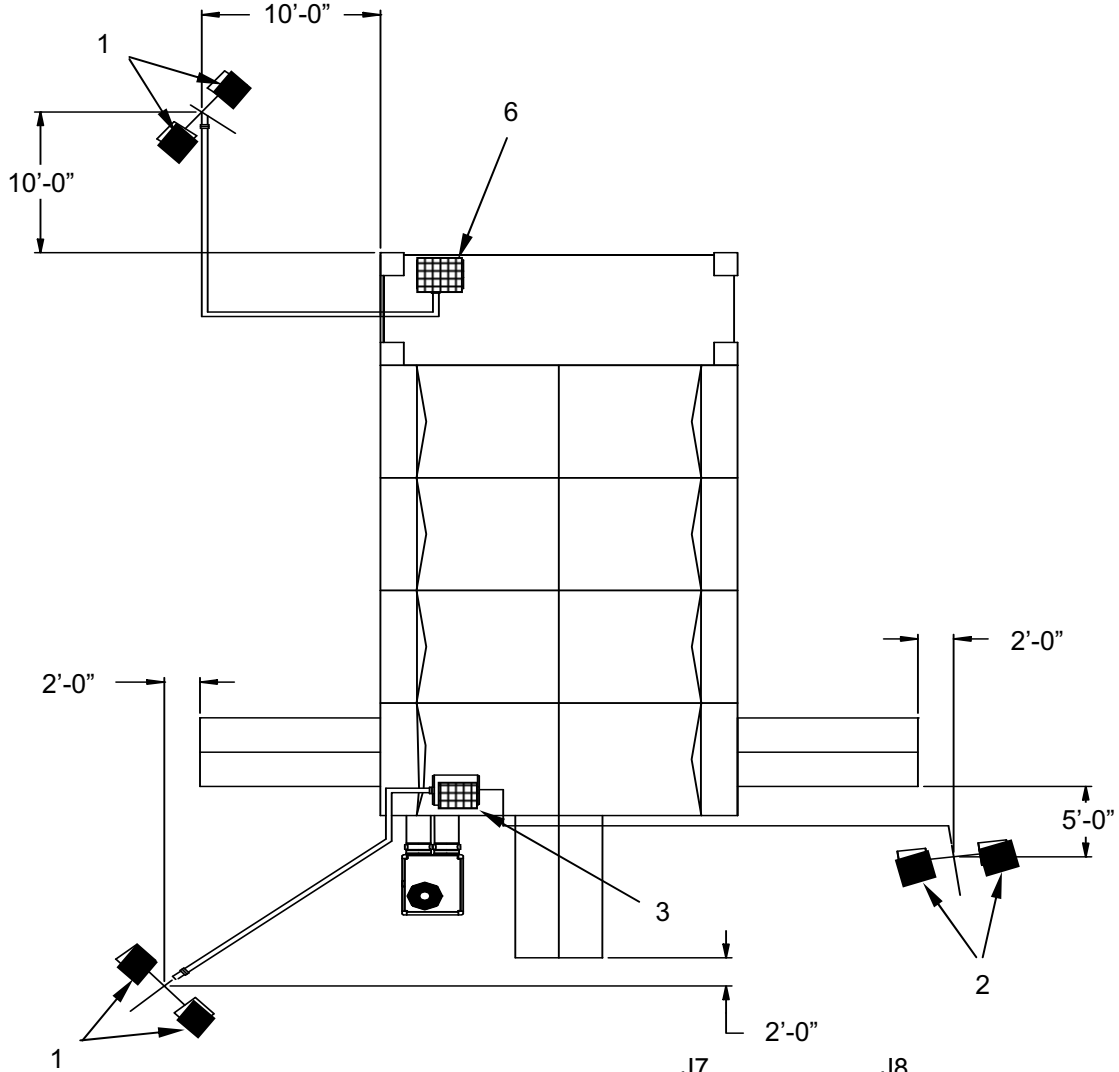
TEMPER Electrical Distribution Box  
1000-Watt Floodlight Connections



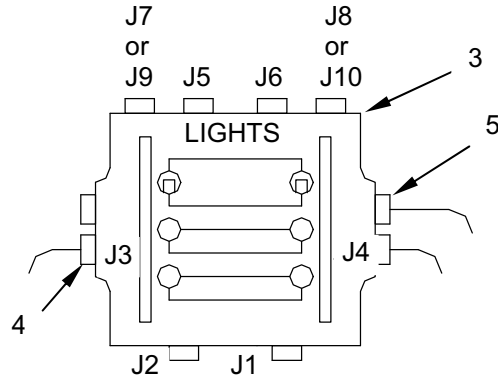
TEMPER Electrical Distribution Box  
2000-Watt Floodlight Connections

**Laundry**

Place the 2000-Watt Floodlights (1) and the 1000-Watt Floodlight (2) as shown below. Using the 50-foot extension cords, connect the 1000-Watt Floodlight and one 2000-Watt Floodlight to the TEMPER Power Distribution Box (3) J-3 (4) and J-4 (5) connectors as shown. Connect the second 2000-Watt Floodlight to the outlet on the side of the CBL service panel inside the ISO container (6) as shown.



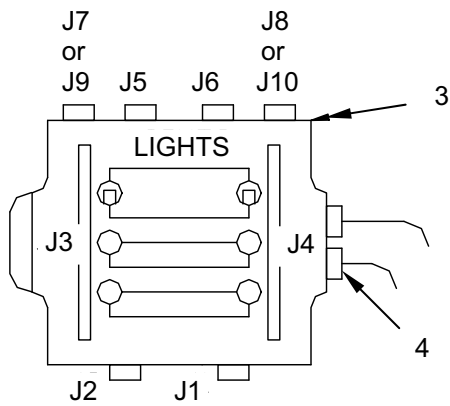
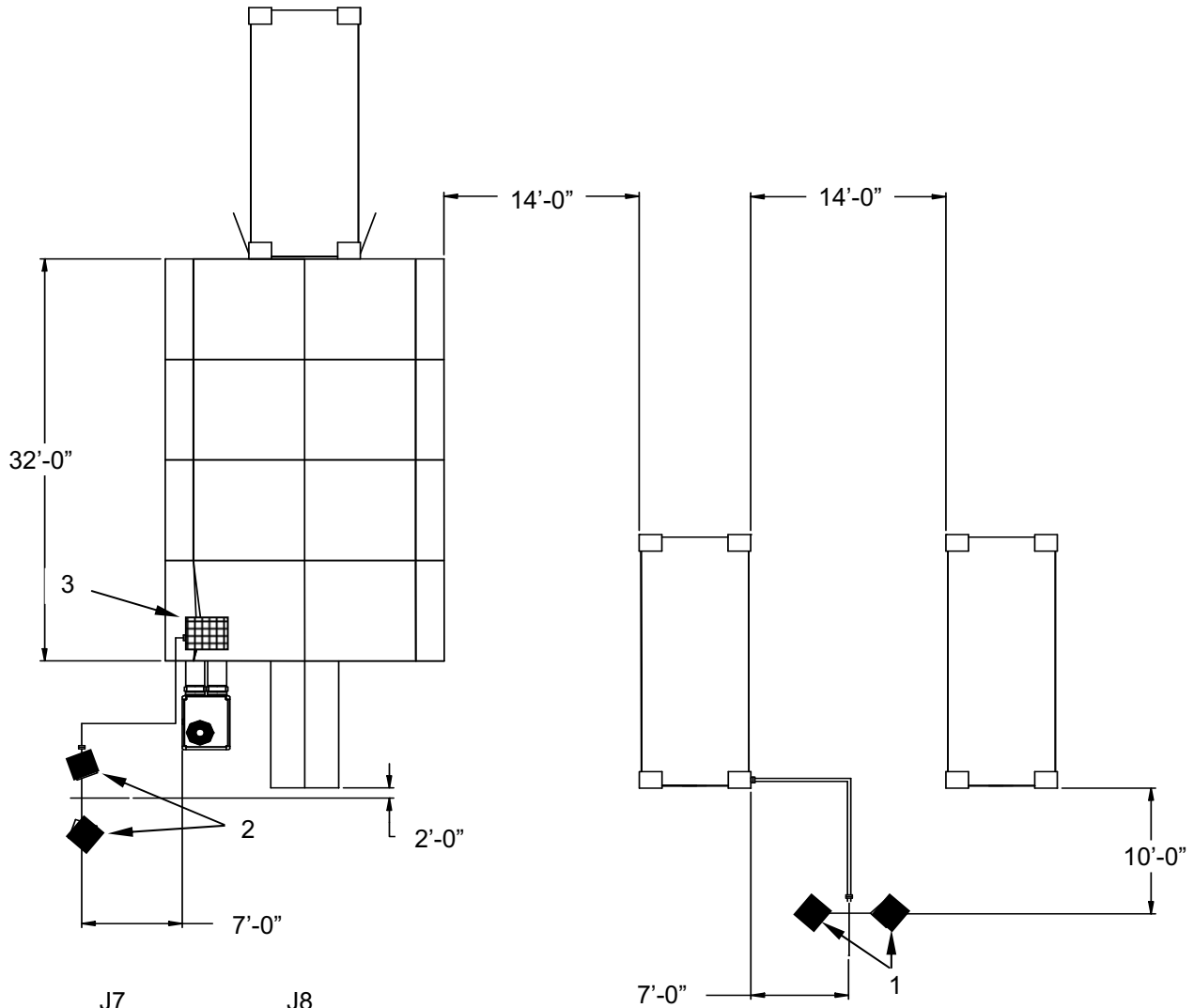
CBL Power Panel  
1000-Watt Floodlight Connections



TEMPER Electrical Distribution Box  
1000-Watt Floodlight Connections

**Shower/Latrine**

Place the 2000-Watt Floodlight (1) and the 1000-Watt Floodlight (2) as shown below. Using a 50-foot extension cord, connect the 1000-Watt Floodlight to the Shower TEMPER Power Distribution Box (3) J-4 (4) connectors as shown. Connect the 2000-Watt Floodlight to the CLS power panel (5) as shown.



TEMPER Electrical Distribution Box  
1000-Watt Floodlight Connections



Containerized Latrine Power Panel  
1000-Watt Floodlight Connections

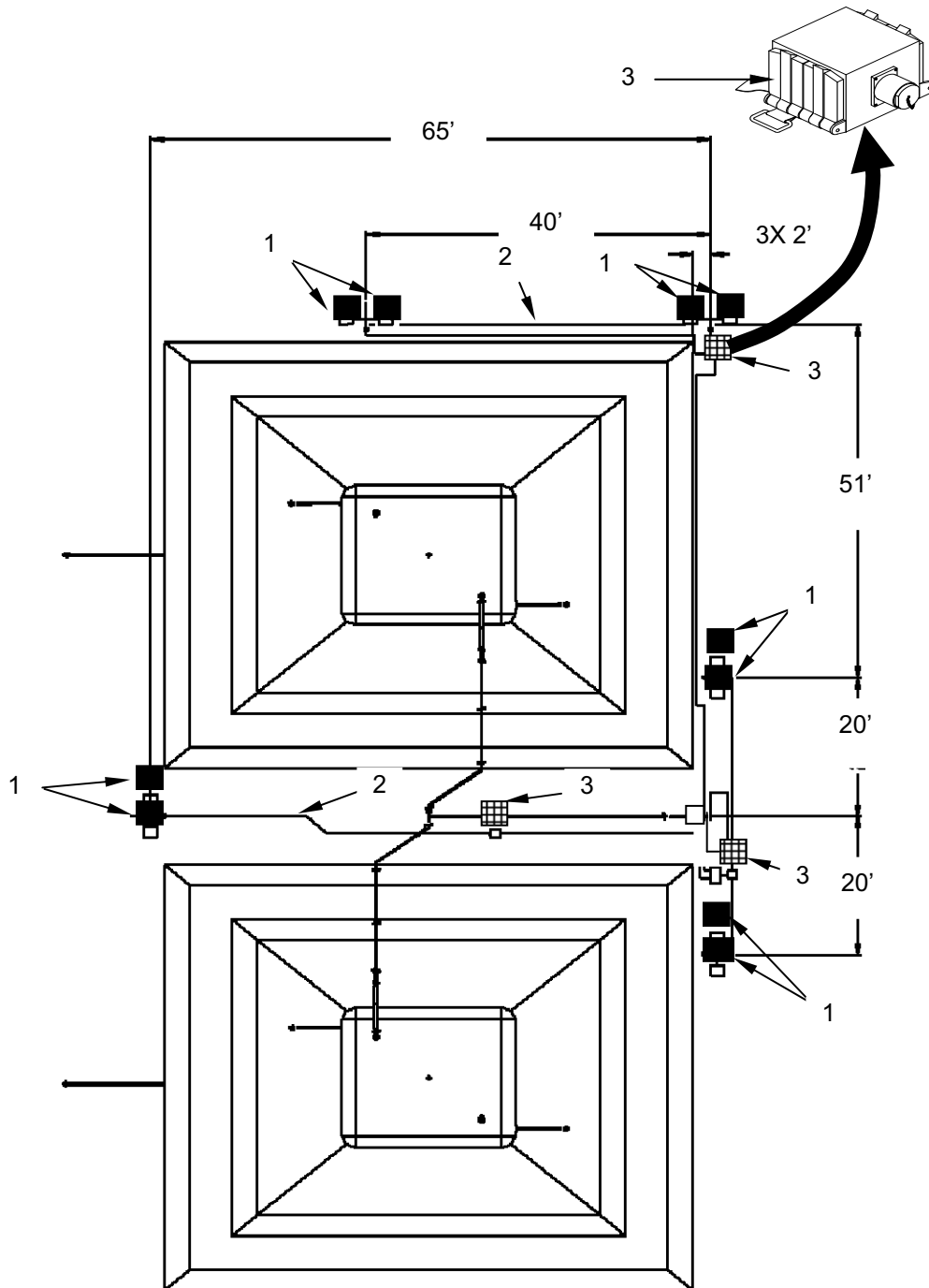
**Fuel Distribution**

Place the 1000-Watt Floodlights (1) as shown below. Using 50-foot extension cords (2), connect the floodlights to the box receptacles (3) as shown below.

**NOTE**

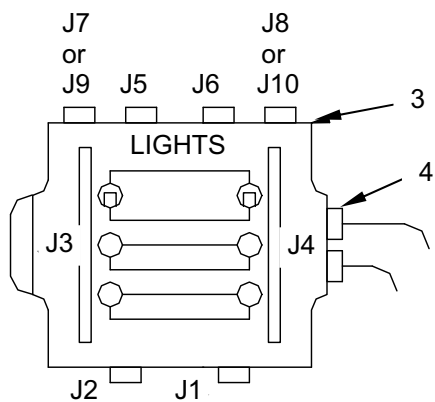
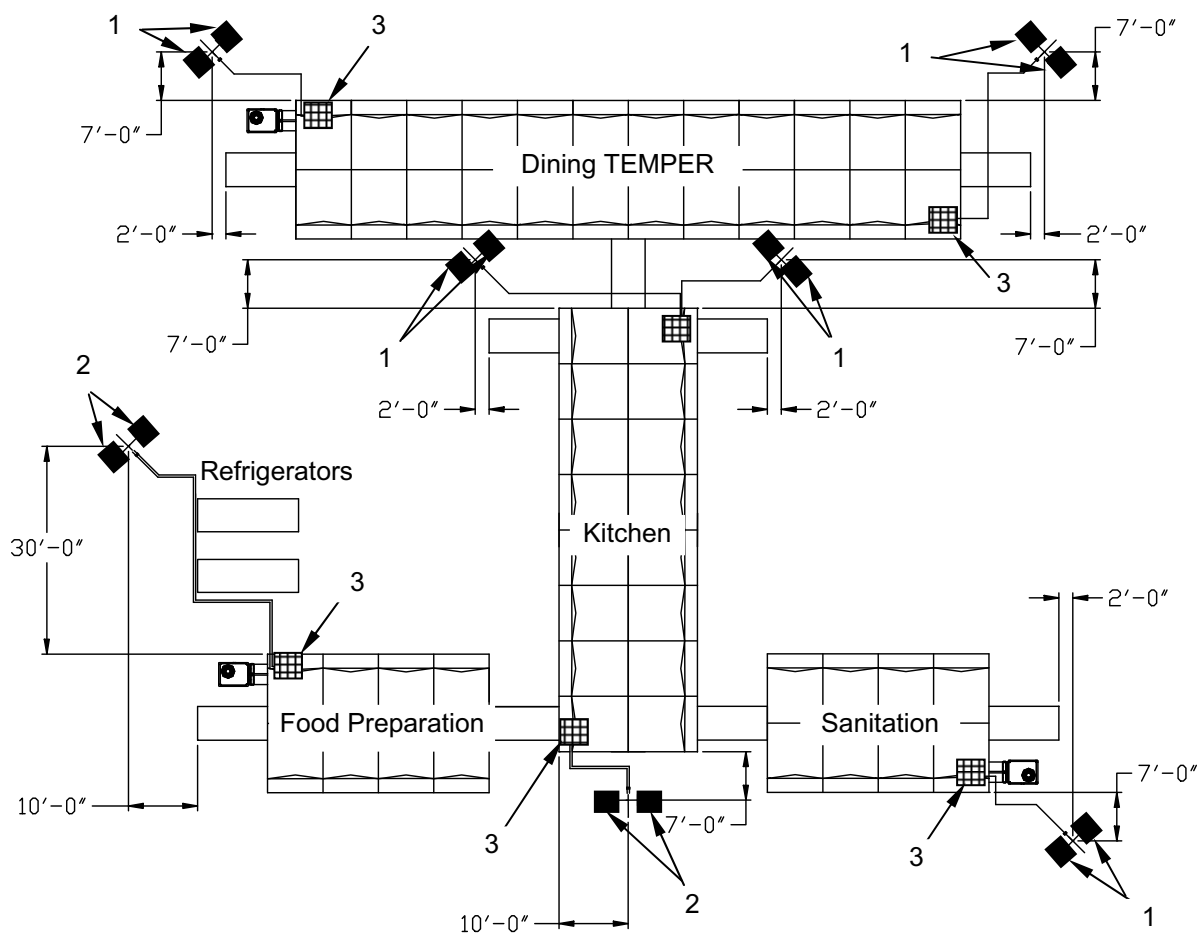
If box receptacles have not been set up and connected to the PDISE, refer to WP 0029 00 for procedures to perform this task.

Ensure 20-A circuit breakers on PDISE connectors are ON.

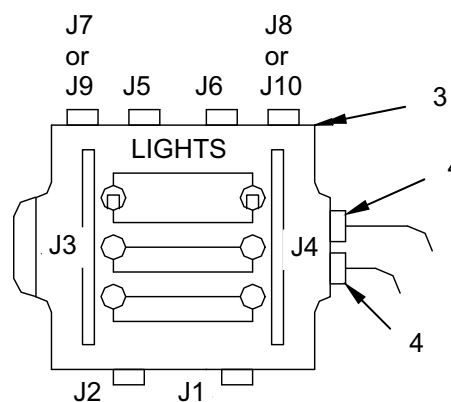


**Food Service**

Place the 1000-Watt Floodlights (1) and the 2000-Watt Floodlights (2) as shown below. Using the 50-foot extension cords, connect the floodlights to the TEMPER Power Distribution Box (3) J-4 connectors (4) as shown.



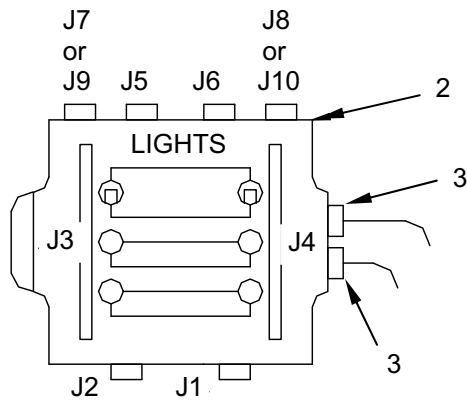
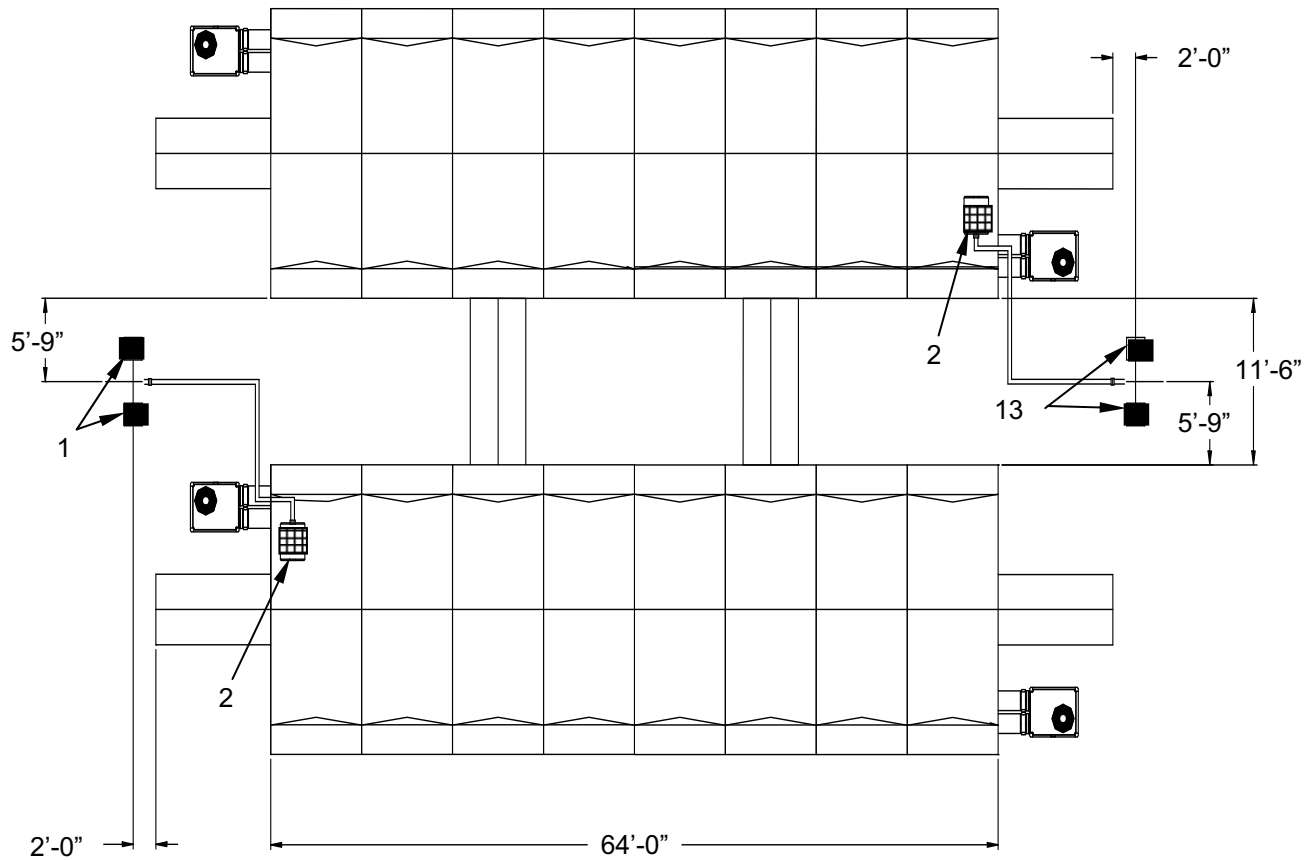
TEMPER Electrical Distribution Box  
1000-Watt Floodlight Connection



TEMPER Electrical Distribution Box  
2000-Watt Floodlight Connections

**MWR**

Place the 2000-Watt Floodlights (1) as shown below. Using the 50-foot extension cords, connect the floodlights to the TEMPER Power Distribution Box (2) J-4 connectors (3) as shown.



TEMPER Electrical Distribution Box  
2000-Watt Floodlight Connections

**END OF WORK PACKAGE**





**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS - MODIFICATION SYSTEM POWER GENERATION (MSPG)**

**GENERAL**

This WP contains operating procedures for the Modification System Power Generation (MSPG). Operating procedures for the power generation subsystem in the MSCW Configuration is presented in WP 0038 00.

Before assembly and preparation for use of the power generation subsystem, the FP module site selection, planning, preparation, and staking of the billeting areas must be completed. TRICON 21A, 21B, and the 60kW Tactically Quiet Generators (TQG) must be staged as described in WP 0022 00.

**SCOPE**

Assembly and preparation for use of the MSPG consists of the set up of eight power generation clusters, each serving one or more subsystem. Each cluster consists of three TQG with accompanying fuel storage and power distribution equipment. The major tasks in setting up the MSPG consist of the following:

- Unpacking and inventory of power generation equipment in TRICON 21A and 21B
- Emplacing generator sets and fuel drums with fuel drum adapters
- Layout and connection of equipment between power cluster and PDISE
- Determine initial fueling and subsequent re-fueling schedule for the 500-Gallon fuel drums

**UNPACKING AND INVENTORY**

Unpack and inventory power generation subsystem components using Table 1 through 3 of this WP.

Power generation equipment is packed in the following container types and quantities:

- One TRICON Type 21A (Generator Support Kit)
- One TRICON Type 21B (System Support Kit)
- Twenty-four 60-kW, TQG (MEP806A, NSN 6115-01-274-7390 may be provided as authorized substitute)
- Each generator is shipped with the items identified in Table 1.

**Table 1. Items shipped with each Generator.**

Component	Qty
Fuel Line, Auxiliary	1
Cable, Paralleling	1
Rod, Ground, Type li, Class B	1
Warranty Technical Bulletin	1
CIM Software	1
Technical Manual, 60kW Gen Set (TM 9-6115-672-10)	1

In addition to container contents, eight each grounding rods, grounding straps, and eight fire extinguishers must be retrieved from TRICON type 11A. Sand bags for use with the 500-Gallon collapsible fabric fuel drum berm liners may also be obtained from TRICON 11A.

Refer to WP 0038 00 for location and disposition of MSCW equipment used with the MSPG subsystem.

To unpack the equipment, proceed as follows:

1. Open containers and check the contents against Table 2 and 3 (the container type is stenciled on the container door as illustrated in WP 0021 00).

2. Remove each item from the container and set it aside, but not in an area where equipment is to be positioned for operation. Provide the MEP 806A and MEP 806B System Support Packages shipped in TRICON 21B to the Administrative Subsystem maintenance section for storage and use as required.
3. Place reusable containers, container covers, dunnage and packing materials, as well as special purpose web tiedown straps back into the TRICON for future use when repacking equipment.

**Table 2. Inventory List for MSPG Generator Support Kit TRICON Type 21A.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON)	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTOR LINKS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL	WP 0085 00, COEI, Item 9	3
<b>SWITCH BOX ASSEMBLY</b>	WP 0098 00, COEI, Item 19	16
CABLE ASSEMBLY, 60KW, B UNIT, W19	TM 9-6115-663-13&P	16
WRENCH, BOX 1 <sup>23</sup> / <sub>32</sub> -INCH, LOAD TERMINAL	TM 9-6115-663-13&P	16
WRENCH, BOX, 2-INCH, LOAD TERMINAL	TM 9-6115-663-13&P	16
SWITCH BOX CRADLE	TM 9-6115-663-13&P	16
<b>REMAINING GENERATOR SUPPORT ITEMS</b>		
SLIDE HAMMER, GROUND ROD	WP 0098 00, COEI, Item 16	8
FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND	WP 0098 00, COEI, Item 11	8
ABSORBENT MATERIAL, SPILL CLEANUP	WP 0098 00, COEI, Item 3	3
SHOVEL, ROUND POINT, D HANDLE	WP 0098 00, COEI, Item 15	3
LUBRICATION ORDERS, 60KW GEN SET LO 9-6115-672-24	WP 0098 00, BII, Item 3	1
TECHNICAL MANUAL, 60KW GEN SET TM 9-6115-672-24	WP 0098 00, BII, Item 1	1

**Table 3. Inventory List for MSPG System Support Kit TRICON Type 21B.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON)	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTOR LINKS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL	WP 0085 00, COEI, Item 9	3
<b>YOKE, TOWING, LIFTING, FABRIC DRUM</b>	WP 0098 00, COEI, Item 20	2
PIN, STRAIGHT, HEADLESS	TM 10-8110-201-14&P	4
SET SCREW	TM 10-8110-201-14&P	4
LEG, CONNECTING	TM 10-8110-201-14&P	4
UPPER LEG	TM 10-8110-201-14&P	4
BRACE	TM 10-8110-201-14&P	4
CLEVIS PIN ASSEMBLY	TM 10-8110-201-14&P	4
NUT, SELF-LOCKING, HEXAGON	TM 10-8110-201-14&P	4
NUT, SELF-LOCKING HEXAGON	TM 10-8110-201-14&P	4
CAP SCREW, HEXAGON HEAD	TM 10-8110-201-14&P	4
CAP SCREW, HEXAGON HEAD	TM 10-8110-201-14&P	4
HOOK, CHAIN	TM 10-8110-201-14&P	4
<b>BERM LINER ASSEMBLY, 500 GALLON TANK, FP</b>	WP 0098 00, COEI, Item 20	8
VALVE ASSEMBLY, BALL, 2 IN, DRAIN CONTROL	TM 10-8110-201-14&P	8
HOSE ASSY, QDISC, CAM-LOCK, 2 IN X 20 FT, DRAIN, FUEL	TM 10-8110-201-14&P	8
<b>SYSTEM SUPPORT PACKAGE FOR MEP 806A</b>	WP 0098 00, COEI, Item 1	1
HOSE, NON-METALLIC	TM 9-6115-672-24	4
FILTER BODY, FLUID	TM 9-6115-672-24	24

**Table 3. Inventory List for MSPG System Support Kit TRICON Type 21B – Continued.**

Subcomponent	Where Listed/Illustrated	Qty
V-BELT SET	TM 9-6115-672-24	4
FUSE CARTRIDGE	TM 9-6115-672-24	8
FILTER ELEMENT, OIL	TM 9-6115-672-24	24
CLAMP, HOSE, LOW PRESSURE, TYPE F, SAE #6	TM 9-6115-672-24	4
ELEMENT, FILTER, AIR CLEANER	TM 9-6115-672-24	24
FILTER ELEMENT, FUEL	TM 9-6115-672-24	24
<b>SYSTEM SUPPORT PACKAGE FOR MEP 806B</b>	WP 0098 00, COEI, Item 2	1
LIGHT, PANEL	TM 9-6115-672-24	2
FILTER BODY, FLUID	TM 9-6115-672-24	24
RELAY, ELECTROMAGNETIC	TM 9-6115-672-24	2
PUMP, FUEL, ELECTRICAL	TM 9-6115-672-24	4
REGULATOR, VOLTAGE, 50/60HZ	TM 9-6115-672-24	2
SYNCHRONIZER, LOAD SHARING	TM 9-6115-672-24	2
INDICATOR, LIGHT	TM 9-6115-672-24	2
ELEMENT, FILTER, AIR CLEANER	TM 9-6115-672-24	24
PARTS KIT, AIR FILTER	TM 9-6115-672-24	4
GASKET, THERMOSTAT COVER	TM 9-6115-672-24	4
V-BELT	TM 9-6115-672-24	4
INDICATOR, TEMPERATURE, ELECTRICAL	TM 9-6115-672-24	4
NOZZLE, FUEL, INJECTION	TM 9-6115-672-24	2
PARTS KIT, SEAL REPLACEMENT	TM 9-6115-672-24	8
FILTER ELEMENT, OIL	TM 9-6115-672-24	24
FILTER ELEMENT, FUEL	TM 9-6115-672-24	24
THERMOSTAT, FLOW CONTROL	TM 9-6115-672-24	4
GENERATOR, ALTERNATING CURRENT	TM 9-6115-672-24	2
<b>DRUM, FABRIC, COLLAPSIBLE, 500 GALLON, FUEL, TY3</b>	WP 0098 00, COEI, Item 12	8
COUPLER VALVE ASSEMBLY	TM 10-8110-201-14&P	8
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN X 5 FT, M X F, DISCHARGE, FUEL	TM 10-8110-201-14&P	8
TECHNICAL MANUAL, DRUM, FABRIC, 500 GALLON TM 10-8110-201-14&P	WP 0098 00, BII, Item 5	8
<b>CONTROL, PRESSURE, FILLING, NON-VENTED DRUM</b>	WP 0098 00, COEI, Item 11	2
HOSE ASSEMBLY, QDISC, CAM-LOCK, 1-1/2 IN X 5 FT, M X F, DISCHARGE, FUEL	TM 10-8110-201-14&P	2
<b>REPAIR KIT, EMERGENCY, TYPE II</b>	TM 10-8110-201-14&P	2
PATCH, MECHANICAL, FLEXIBLE, 3 IN	TM 10-8110-201-14&P	4
PATCH, MECHANICAL, FLEXIBLE, 5 IN	TM 10-8110-201-14&P	4
PATCH, MECHANICAL, FLEXIBLE, 7-1/2 IN	TM 10-8110-201-14&P	4
CONTAINER, REPAIR KIT	TM 10-8110-201-14&P	2
HOOD, FLEXIBLE	TM 10-8110-201-14&P	2
PLUG, WOOD, 1-1/2 IN	TM 10-8110-201-14&P	4
PATCH ASSEMBLY, MECHANICAL, 2 IN	TM 10-8110-201-14&P	4
KNIFE AND SHEATH ASSEMBLY	TM 10-8110-201-14&P	2
PLUG, WOOD, 2 IN	TM 10-8110-201-14&P	4
SHEET, TECHNICAL	TM 10-8110-201-14&P	2
<b>REPAIR KIT, EMERGENCY, TYPE I</b>	TM 10-8110-201-14&P	2
PLIERS, DIAGONAL CUT	TM 10-8110-201-14&P	2
POUCH, REPAIR KIT	TM 10-8110-201-14&P	2
HOOD, FLEXIBLE	TM 10-8110-201-14&P	2
ROTARY CUTTER, WRENCH	TM 10-8110-201-14&P	2
PLUG, WOOD, 5/8 IN	TM 10-8110-201-14&P	6
PATCH ASSEMBLY, MECHANICAL, 3/4 IN	TM 10-8110-201-14&P	12
SHEET TECHNICAL	TM 10-8110-201-14&P	2

**Table 3. Inventory List for MSPG System Support Kit TRICON Type 21B – Continued.**

Subcomponent	Where Listed/Illustrated	Qty
<b>REMAINING MSPG SUPPORT KIT ITEMS</b>		
SPOUT, FUEL CAN, FLEXIBLE	WP 0098 00, COEI, Item 18	8
CAN, FUEL, MILITARY, PLASTIC, 5 GALLON, GREEN	WP 0098 00, COEI, Item 7	8
DRIP PAN, ABSORBENT, SPILL CLEANUP	WP 0098 00, COEI, Item 4	8
MANIFOLD ASSY, FUEL, FP, TACTICAL GENERATOR	WP 0098 00, COEI, Item 14	8

**ASSEMBLY AND PREPARATION FOR USE OF POWER GENERATION CLUSTER**

The following procedures describe general layout and assembly of each of the power generation clusters.

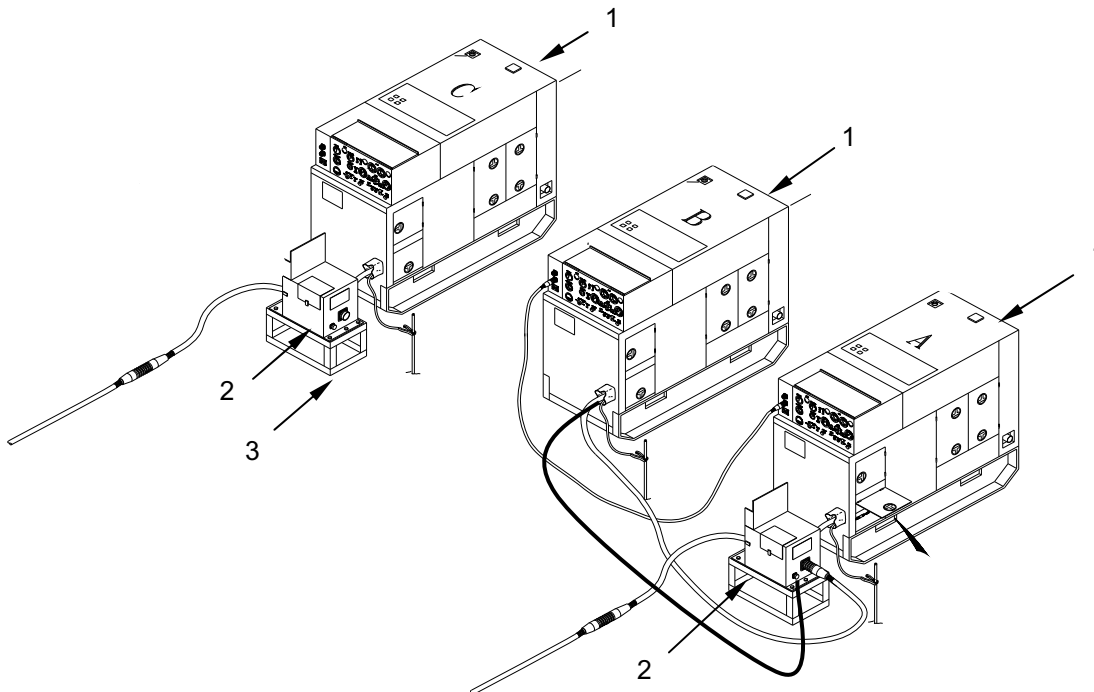
**Setup of Skid Mounted, Tactical Quiet, 60kw Generators**



**WARNING**

The switch boxes, PDISE, and power cables are heavy. To avoid injury, two persons are required to lift these components.

1. Position three 60-kW generators (1) where indicated by survey stakes (Refer to WP 0022 00), together with two switchboxes (2), and cradles (3) as shown.



**WARNING**

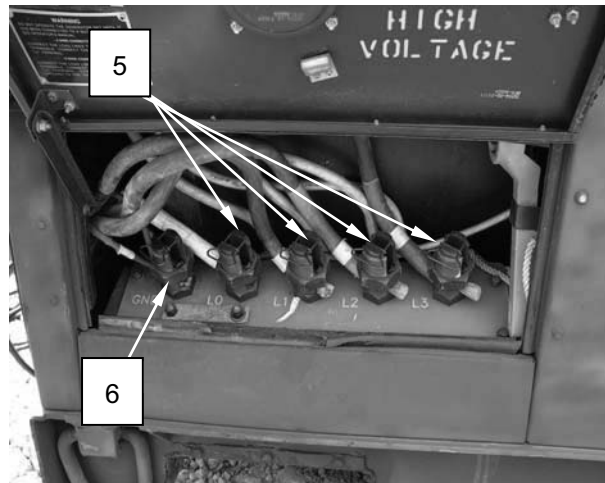
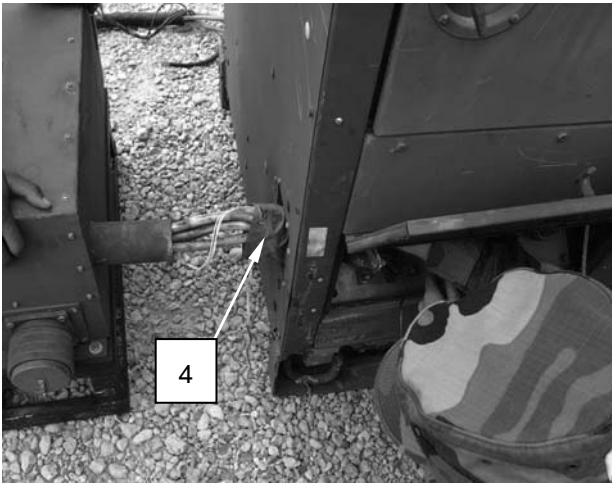
Only qualified personnel shall connect load pigtails to generators. The generator must be shut down during these procedures. Failure to observe this warning may result in severe injury or death by electrocution.



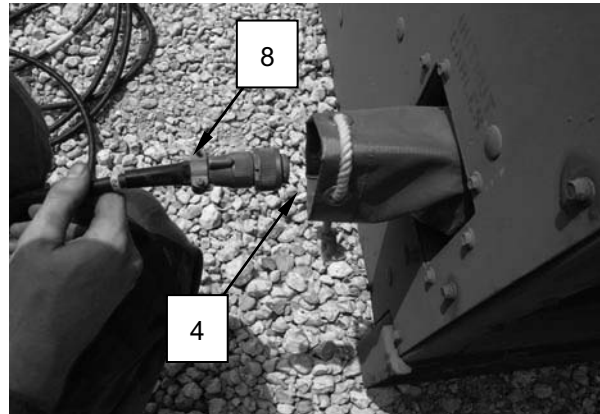
## WARNING

Color-coding on pigtails vary according to manufacturer. Perform an Ohms check on all new pigtails to ascertain the color-coding of the cables. Failure may result in serious injury or death by electrocution.

2. Pass pigtails of switch box together with ground cable through cable boot (4) on generators A and C, and connect as follows:
  - a. Connect the pigtails to the generator load bank (5) in the sequence shown in Table 4.
  - b. Connect the ground cable to the ground terminal (6) on the load bank.

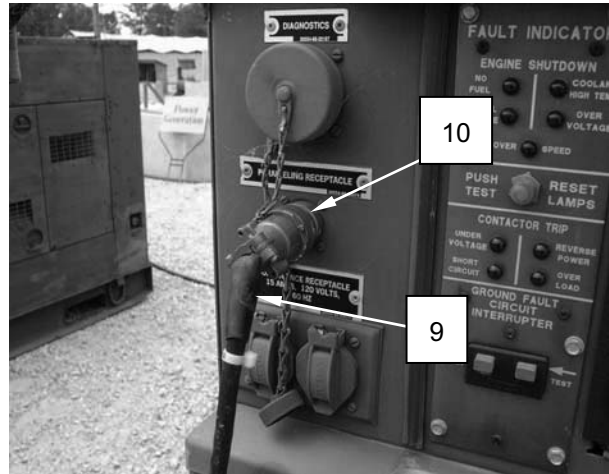
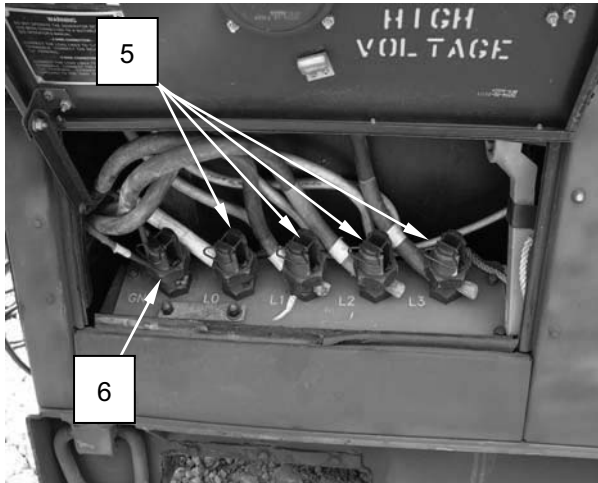


3. Pass pigtails of 60kW power cable (7) together with control cable connector (8) (cables furnished with generator) and ground cable through the cable boot (4) on generator B.

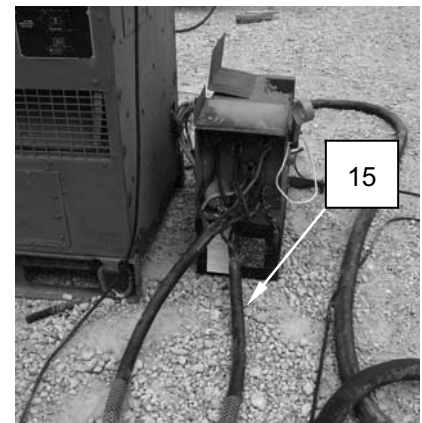
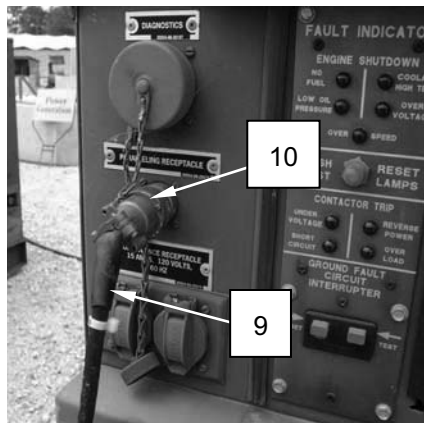
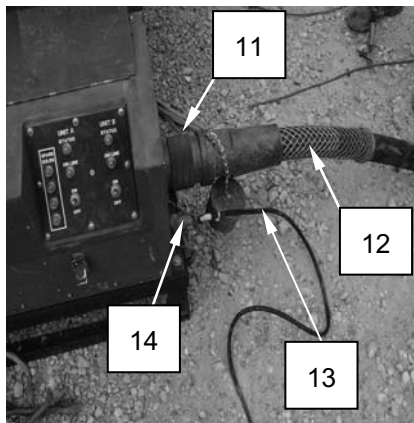


4. Connect pigtails, control cable, and ground cable to generator B as follows:
  - a. Connect the pigtails to the generator load bank (5) in the sequence shown in Table 4.
  - b. Connect the ground cable (as described in TM 9-6115-672-10) to ground terminal (6) on the load bank.
  - c. Connect the control cable (8) to connector J16 on generator B (shown in TM 9-6115-672-10).

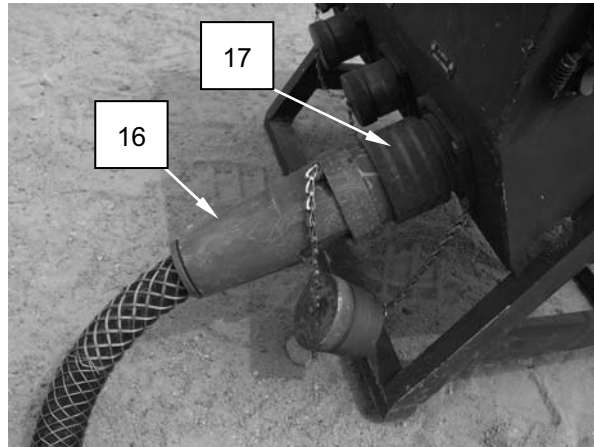
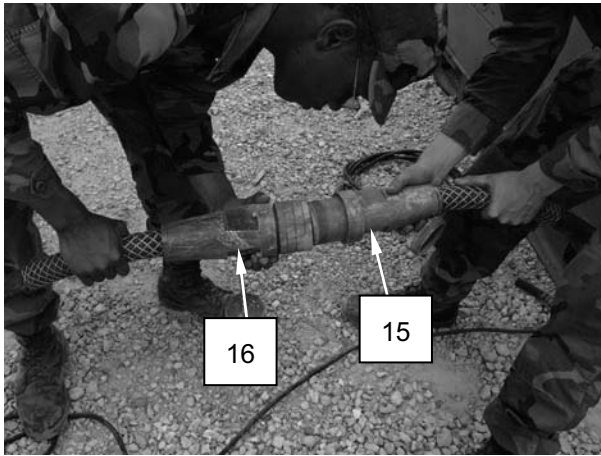
5. Connect the parallel cable (9) (furnished with generator) to the receptacle labeled PARALLELING RECEPTACLE (10) on the control panel of generator B.



6. Connect the Class L connector (11) on the 60kW power cable (12) to the J2 connector on switch box.
7. Connect the control cable (13) to the J3 connector (14) on the switch box.
8. Connect the parallel cable (9) to the PARALLELING RECEPTACLE (10) on control panel of Generator A.
9. Connect two 100-A pigtails (15) to the control box on generator A and C.



10. Connect a 100-A/50-foot cable (16) to each of the four pigtails (15) connected to the switch boxes at generators A and C.
11. Connect 100-A/50-foot cables (16) to the 100-A input connectors (J1) (17) on the PDISE.



**Connecting Load Pigtails to TQG Unit A and C**



**WARNING**

Only qualified personnel shall connect load pigtails to generators. The generator must be shut down. Failure to observe this warning may result in severe injury or death by electrocution.

**CAUTION**

The TQGs and some of the Force Provider equipment use three-phase power. Therefore, it is imperative that each load line be connected to the proper generator line lug. Failure to observe this caution may result in unpredictable operation and damage to electrical equipment connected.

Observe Table 4 for designation of generator phases and load pigtail line colors.

**Table 4. Generator and Load Phase Designation.**

TQG Line Designation	Load Pigtail Line Color
0	White
L1	Black
L2	Red
L3	Blue
Ground	Green

Follow instructions found in TM 9-6115-645-10 to connect load pigtails to TQG unit A and C.

## Generator Fueling

The 60kW skid mounted TQG is fueled through its integral 43-Gallon fuel tank. The tank can be manually re-fueled, or automatically through an auxiliary fuel line from an external source. If an external source, such as the 500-Gallon collapsible, fabric drums are used, set up one drum for each power cluster as described in the following paragraphs.

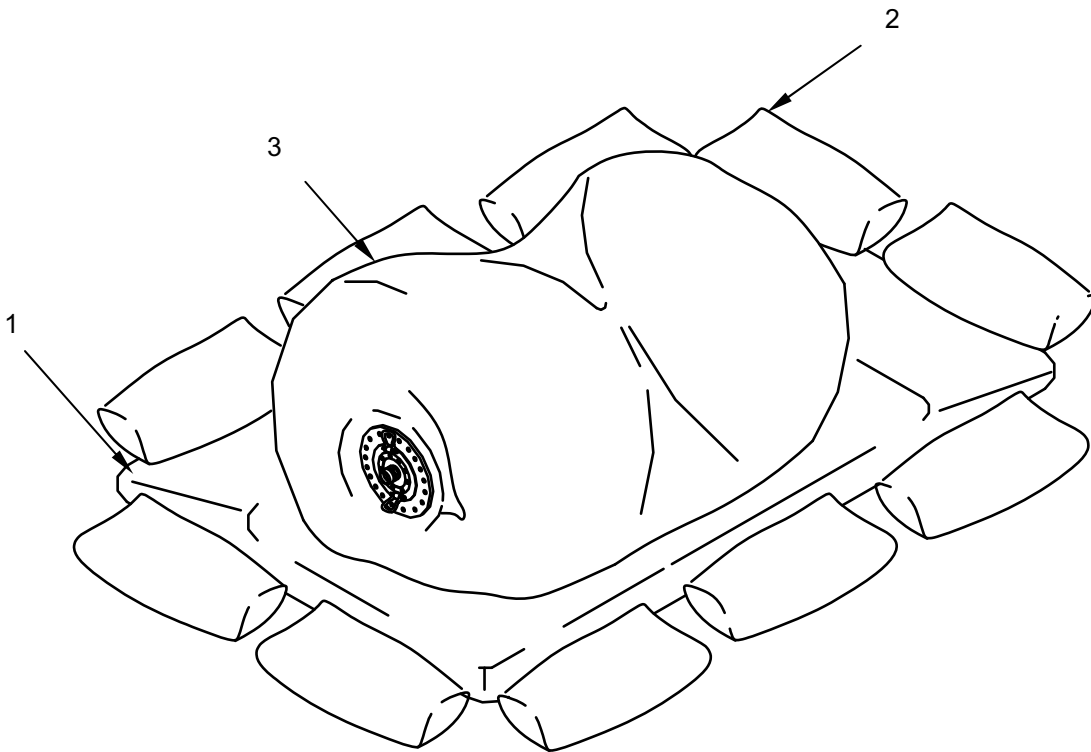
### Preparation of 500-Gallon Collapsible Fabric Fuel Drums



#### **WARNING**

Fuel drums must be positioned on level ground to prevent injuries from unintended movement of the drum.

1. Install fuel drum berm liner (1) in berm prepared as part of the site preparation.
2. Secure fuel drum berm liner (1) in place with a border of sand bags (2).
3. Position 500-Gallon collapsible fabric fuel drum (3) in berm as shown.



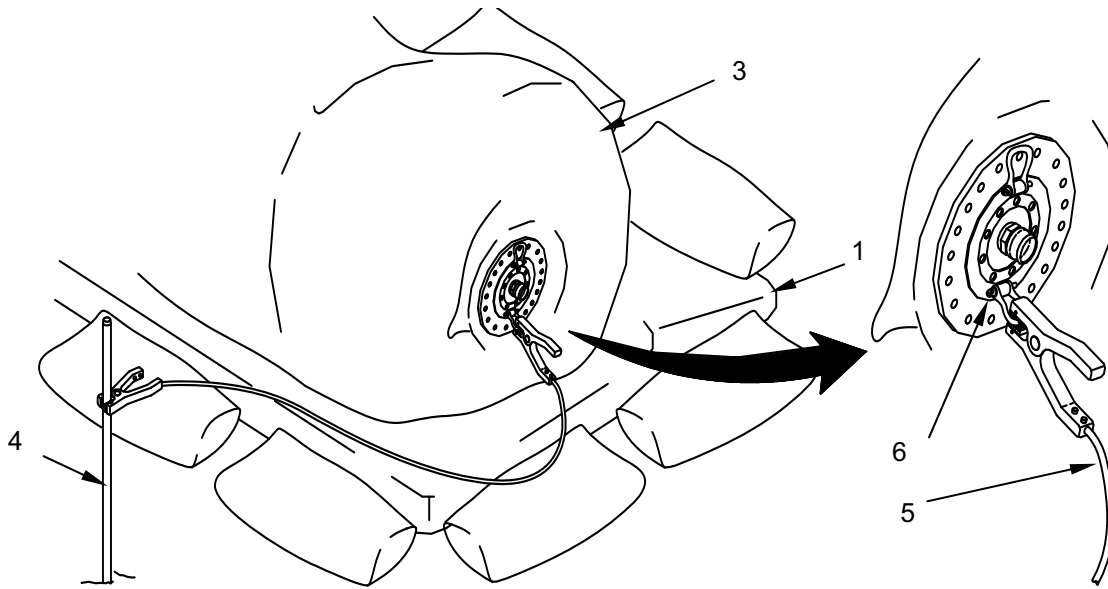




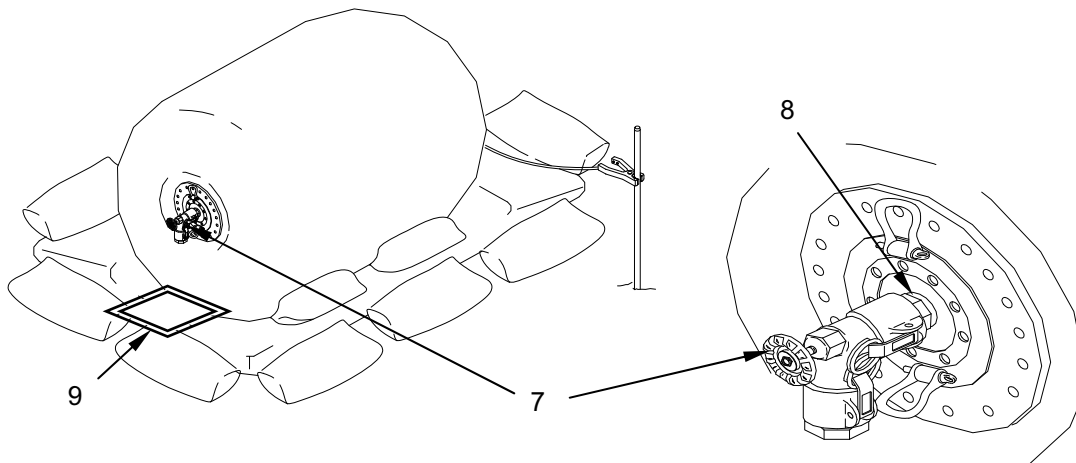
## WARNING

Collapsible fabric fuel drum must be grounded to ensure safe operation. Failure to ground tank may result in static-electric discharge causing explosion and possible severe injury or death to personnel.

4. Obtain a grounding rod (4) and cable (5) from TRICON type 11A.
5. Drive ground rod (4) into earth using a slide hammer just outside berm (1) on one side of drum (3).
6. Connect ground cable (5) from shackle (6) on 500-Gallon fuel drum (3) to ground rod (4).
7. Install 2-inch angle valve (7) onto the fuel drum check valve coupling (8) as part of the service upon receipt in accordance with TM 10-8110-201-14&P.



8. Obtain drip pan (9) from TRICON type 21A and place under 2-inch angle valve (7) as shown.



## Filling 500-Gallon Collapsible Fuel Drums

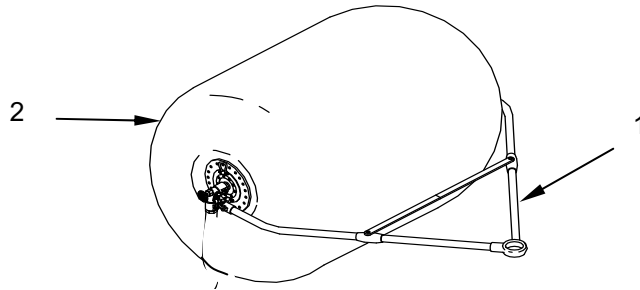
To fill a 500-Gallon fuel drum using the Force Provider Fuel System (FPFS), proceed as follows:

### NOTE

TQGs do not operate directly from the 500-Gallon collapsible fabric drums, but rather use the drums to refill their own internal tank when the level falls too low.

The drums may also be filled in position using mobile refueling equipment.

1. Use a towing yoke (1) and an appropriate vehicle to transport the drum (2) to the FPFS location in accordance with TM 10-8110-201-14&P.



2. Ensure FPFS pump assembly (3) is shut off and fuel supply valve(s) (4) are closed.



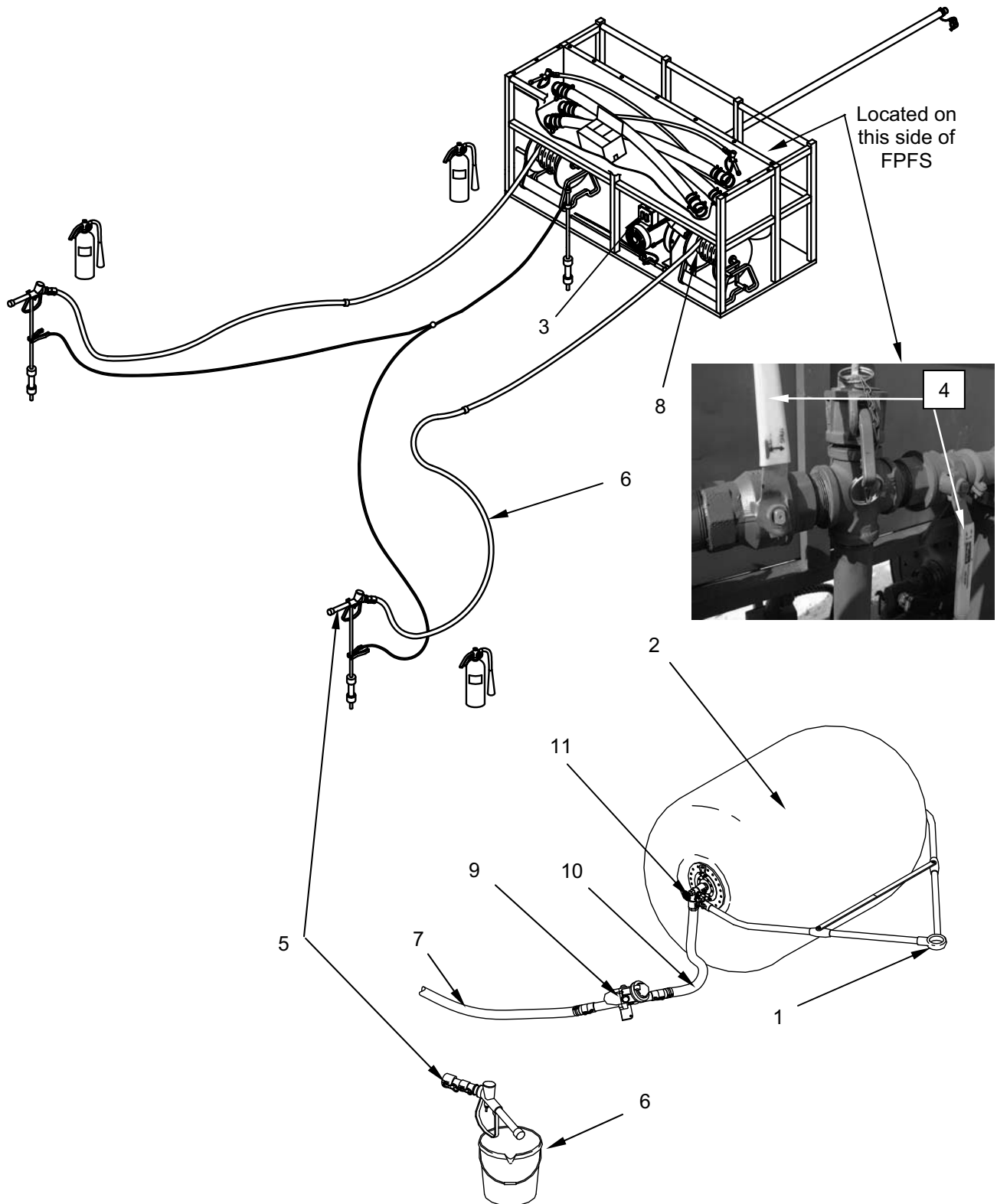
### WARNING

Some fuel spillage may occur whenever hose couplings are opened. Be prepared to collect residual fuel from hose with a pail and rags. Failure to observe this warning may result in fuel spillage.

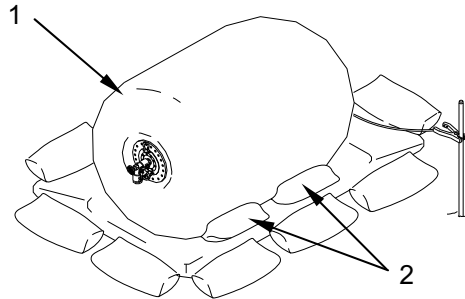
3. Position nozzle (5) of FPFS fuel hose to be used over a barrel or pail (6), squeeze nozzle handle, and walk out hose (7) from FPFS hose reel (8) to the nozzle (5).
4. Remove nozzle (5) from FPFS fuel hose (7), using care to collect any spillage.
5. Immediately install pressure control (9) and short hose (10) onto FPFS fuel hose (7).
6. Connect short hose (10) to coupling on drum (2). Open the hand wheel (11).
7. Open supply valve(s) (4) and start FPFS pump assembly (3).
8. When fueling is complete (pressure control will automatically shut off the fuel flow when the drum internal pressure reaches 4-5 psi), stop pump assembly (3) and close hand wheel (11).
9. Disconnect short hose (10) from drum (2), using care to collect any residual fuel from hose.
10. Transport filled drum (2) in accordance with TM 10-8110-201-14&P.
11. Power generation personnel shall return filled fuel drum into position and connect auxiliary fuel hose.

**NOTE**

Pressure control and short hose used for filling 500-gallon collapsible fabric drums may be left in position on one of the diesel facility branch legs if desired.



12. Remove pressure control (9) and short hose (10) from FPFS fuel hose (7), and immediately install nozzle (5) onto FPFS fuel hose (7). Be prepared to catch any fuel leakage that may occur.
13. Block re-fueled and repositioned drum (1) with sand bags (2) on each side to support drum (1) and prevent movement.



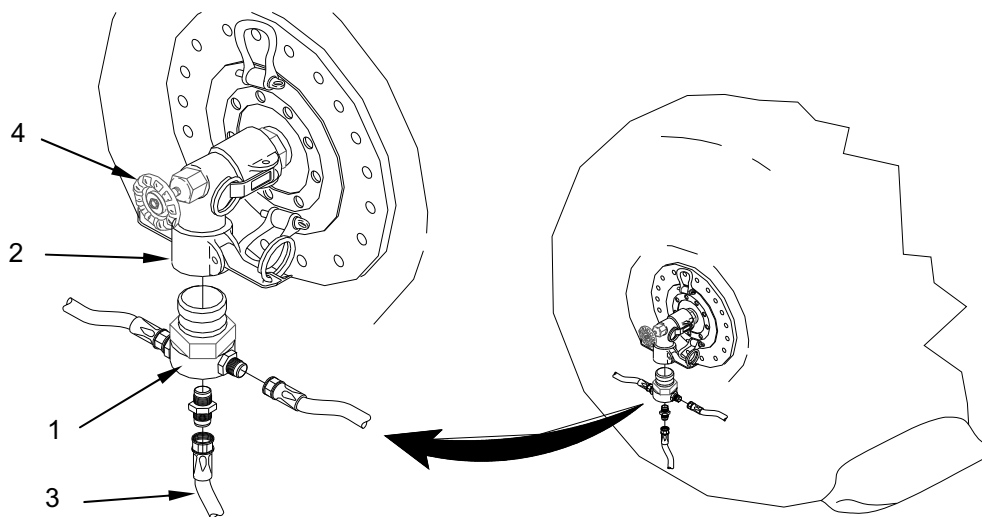
Prepare each TQG for operation in accordance with TM 9-6115-645-10 and TM 9-6115-663-24, including grounding and use of external fuel source.

### Connecting Generator Auxiliary Fuel Hoses to 500-Gallon Collapsible Fabric Fuel Drum

#### **CAUTION**

Auxiliary fuel hoses must have enough slack to allow 500-Gallon collapsible fabric fuel drum to collapse inward while emptying. If auxiliary fuel hose is too short, it will be damaged when drum collapses. Fuel leakage and damage to equipment may result.

1. Install fuel manifold assembly (1) onto drum coupler valve assembly (2).
2. Connect each auxiliary fuel hose (3) to manifold assembly (1).
3. Open hand wheel (4) on coupler valve (2).
4. Set each TQG to auxiliary fuel setting. (Prime and run on auxiliary fuel setting.)



**OPERATING INSTRUCTIONS FOR POWER GENERATION CLUSTER**

**Initial Check and Operation**

1. Starting from unit A, walk the lines of each power group serviced by your power generation cluster. Ensure each cable is properly connected and follows a safe path. Ensure main circuit breakers in each of four PDISE-M100s are set to OFF.
2. Double-check power generation cluster site to ensure that TQGs and 500-Gallon collapsible fabric fuel drums are properly grounded to earth and fire extinguishers are deployed in the area.
3. Start, check, and operate TQG unit A and C in accordance with TM 9-6115-645-10 and TM 9-6115-663-13&P using AUX FUEL setting. The TQG unit B should not be operated at this time.
4. Inform personnel in subsystem(s) serviced by power generation cluster that power is now available to power group. Assist those personnel to check for proper operation of power group and electrical equipment. Pay particular attention to direction of rotation of three-phase motors.
5. Operating Procedures. Always operate the TQGs in accordance with TM 9-6115-645-10 and TM 9-6115-663-13&P instructions for auxiliary fuel source operation.

**Duty Cycle**



**WARNING**

Instruction for paralleling TQGs and connecting and disconnecting power cables must be performed exactly in accordance with instructions found in TM 9-6115-645-10 and TM 9-6115-663-13&P. Improper operation of TQGs may result in severe injury or death by electrocution.

**NOTE**

Although TM 9-6115-663-13&P does not specifically cover a three-TQG power plant (cluster), the procedures used to achieve this arrangement are essentially the same as those used for a two-TQG power plant.

The three TQGs within a power generation cluster will operate on a rotating 14-on/7-off 21-hour duty cycle. To accomplish this, the TQGs paralleling capability will be utilized to allow the unit B to take up the load of unit A or C without interrupting power delivery or disconnecting any live wires. The sequence will be as depicted in Table 5.

**Table 5. Typical Power Cluster Duty Cycle.**

Hours	Unit A	Unit B	Unit C
0 - 7	<b>On-line</b>	Off-Line	<b>On-line</b>
7 - 14	Off-line	<b>On-line</b>	<b>On-line</b>
14 - 21	<b>On-line</b>	<b>On-line</b>	Off-Line

The rationale for a 7-hour/21-hour duty cycle is to ensure each TQG within a power generation cluster will carry different operational load requirements over several duty cycles and throughout the period of deployment. Over a period of time, each TQG will experience and provide required power during peak periods as well as during non-peak periods. When a TQG is down for unscheduled maintenance, suspend the sequence and resume the cycle when the equipment is returned after completion of repairs.

### Switching Procedures

1. At the end of the first seven hour period, follow instructions found in TM 9-6115-663-13&P to bring the unit B into parallel operation with unit C, then to relieve unit A of load.
2. At the end of the next seven hour period, follow instructions found in TM 9-6115-663-13&P to shift load from Unit B back to Unit A. Temporarily shut down the Unit B to connect it to unit C. Then use Unit B to relieve second Unit C.
3. At the end of third seven-hour period, follow instructions found in TM 9-6115-663-13&P to shift Unit B load back to Unit C. Shut down Unit B for remainder of seven-hour shift.

### Refilling 500-Gallon Collapsible Fabric Fuel Drums

A Power Generation Cluster should operate for two to three days between fueling. Do not wait for the drum to be completely empty before refueling. Proceed as follows:

#### **CAUTION**

Ensure none of the TQGs connected to a 500-gallon collapsible fabric fuel drum is pumping fuel when manifold is disconnected from 500-Gallon collapsible fabric fuel drum. Damage to TQG fuel pump may result.

#### **NOTE**

TQGs do not operate directly from the 500-Gallon collapsible fabric fuel drum. They operate from an internal fuel tank, which is automatically refilled by a fuel pump as the fuel level drops, from the fuel drum.

If any of the TQGs are pumping fuel into their internal tanks, wait for the pumping to cease before continuing.

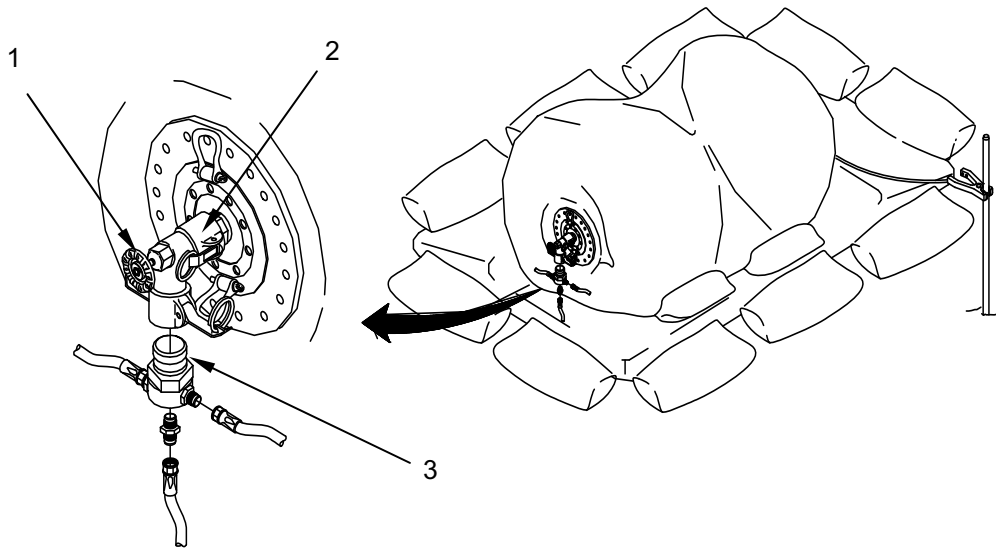
1. Switch each operating TQG to internal fuel setting (PRIME AND RUN Setting).
2. Close hand wheel (1) on 500-Gallon collapsible fabric fuel drum (2).



#### **WARNING**

Some spillage may occur when manifold is removed from drum. Be prepared to collect spillage with pail and/or rags. Failure to observe this warning may result in soil contamination.

3. Remove fuel manifold (3) from drum coupler valve assembly (2). Be ready with bucket to collect all spillage. Refueling can be accomplished on site with a mobile tank and pump unit, or by moving the drum (2) to a fuel source using the towing and lifting yoke provided (as referenced in TM 10-8210-201-14&P for use of towing and lifting yoke).
4. Personnel from bulk fuel subsystem must refuel drum (2). When full drum (2) is returned, place drum (2) in service as previously described under Filling 500-gallon Collapsible Fabric Fuel Drum.
5. Set each TQG back to auxiliary fuel setting (PRIME AND RUN-AUX. FUEL).



**END OF WORK PACKAGE**





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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS - MODIFICATION SYSTEM PRIME POWER (MSPP)**


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**GENERAL**


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**WARNING**


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This modification system is intended to be set up and operated by an Army Prime Power Unit. The system generates and transmits high voltage electric power. Only qualified personnel may perform the procedures in this WP.

This WP contains installation and operating procedures for the Modification System, Prime Power (MSPP). It is applicable to all FP configurations. When other equipment, such as organic Force Provider TQG power cluster equipment is being replaced with prime power equipment, it should be removed and packed as described in WP 0052 00.

During the initial phases of the base camp planning a decision must be made whether to use prime power (a centralized medium-voltage power plant) or the MSPG using TQG. Both power sources have distinct advantages for specific applications.

A centralized power plant requires less manpower to operate and maintain. Generally, it is much more reliable although during a catastrophic failure or enemy attack power outages could be longer in duration. During initial installation significantly more time and resources are required due mainly to the buried distribution system. The cable cannot be recovered and used again, therefore, the initial cost is considerable. Typically a centralized prime power plant requires at least 10,000 square feet of area.

The TQGs of the MSPG can be quickly emplaced and easily replaced when they fail. The individual power clusters have a comparatively small footprint.

Some key parameters must be considered when deciding on the proper power source for Force Provider:

1. **How many modules will be deployed?**  
A base camp consisting of 1 or 2 modules may be more economically powered by MSPG.  
A base camp consisting of 3 or more co-located modules may best be powered centrally by a MSPP.
2. **How long will the base camp be in operation?**  
The MSPG is a very reliable source of power for periods of 3 to 6 months of continuous operation.  
The MSPP, or commercial supply, will be a more reliable source of power over longer periods.
3. **Will the base camp be transitioned to commercial power?**  
If commercial power will be used in the future, it is preferable to use the MSPP initially because the cable installation will be in place.

Prime power personnel are responsible for planning, designing and installing the MSPP distribution and generation system components. These tasks include:

- Installation and operation of power generation equipment
- Installation of primary distribution cable <sup>1/</sup>
- Siting and installation of distribution transformers
- Termination of all medium voltage cables <sup>2/</sup>

<sup>1/</sup> Requires engineer support. Primary distribution cable must be buried. This should be accomplished as an engineering task (trenching and back-filling) as part of site preparation.

<sup>2/</sup> Force Provider power generation personnel are responsible for all low voltage distribution equipment and components. This includes all power connections "down-stream" of the transformers.

**SCOPE**

Assembly and preparation for use of the prime power connectivity equipment consists of the following:

- Unpacking and inventory of MSPP equipment in TRICON 31A, 31C, 32A and 32B
- Determine space requirements for all components of distribution system
- Design distribution system and coordinate engineering support required for installation
- Siting and connection of prime power plant

**UNPACKING AND INVENTORY OF PRIME POWER TRANSFORMER AND CONNECTOR KIT**

The equipment is packed in the following TRICON types and quantities:

- Nine TRICON Type 31A (Transformer Kit)
- One TRICON Type 31C (Transformer Connector Kit)
- One TRICON Type 32A (Cable Part A)
- One TRICON Type 32B (Cable Part B)

To unpack the equipment, proceed as follows:

1. Open containers and check the contents against Tables 1 through 4, as applicable (the container type is stenciled on the container door as illustrated in WP 0021 00).
2. Remove each item from the container and set it aside, but not in an area where equipment is to be positioned for operation.
3. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.

**Table 1. Inventory List for One Prime Power Transformer Kit TRICON Type 31A.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
TRANSFORMER, PAD MOUNTED, 150kVA, 4160V DELTA, 208/120V WYE, DEAD FRONT LOOP FEED (ALTERED IN ACCORDANCE WITH 9-1-0754-1)	WP 0099 00, COEI, Item 18	1

**Table 2. Inventory List for Prime Power Transformer Connector Kit TRICON Type 31C.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	5
CONNECTOR, BARREL, 2/0 COMPRESSION	WP 0099 00, COEI, Item 3	50
TAPE, ELECTRICAL, 3/4 IN, 130C	WP 0099 00, COEI, Item 22	33
CONE, TRAFFIC, ORANGE, 28 IN	WP 0099 00, COEI, Item 2	6
TAPE, ELECTRICAL, 3/4 IN, SUPER 88	WP 0099 00, COEI, Item 14	33
TAPE, VINYL PLASTIC, RED	WP 0099 00, COEI, Item 15	6
TAPE, VINYL PLASTIC, WHITE	WP 0099 00, COEI, Item 12	6

**Table 2. Inventory List for Prime Power Transformer Connector Kit TRICON Type 31C - Continued.**

Subcomponent	Where Listed/Illustrated	Qty
SPLICE KIT, INLINE, 5kV, 2/0, THREE SPLICES	WP 0099 00, COEI, Item 9	16
TERMINATION KIT, 5kV, 2/0, THREE TERMINATIONS	WP 0099 00, COEI, Item 17	8
SOCKET, LARGE, PENTA HEAD	WP 0099 00, COEI, Item 6	2
TERMINAL LUG, 2 CONDUCTOR	WP 0099 00, COEI, Item 15	75
BOND, STUD	WP 0099 00, COEI, Item 23	20
TRANSFORMER, PAD MOUNTED, 150kVA, 4160V DELTA, 208/120V WYE, DEAD FRONT LOOP FEED (ALTERED IN ACCORDANCE WITH 9-1-0754-1)	WP 0099 00, COEI, Item 18	1
TAP BOLT, HEX HEAD, 3/8 X 2-1/2 IN	WP 0099 00, COEI, Item 10	75
WASHER, SPLIT, 3/8 IN	WP 0099 00, COEI, Item 20	100
NUT, HEX, 3/8 IN	WP 0099 00, COEI, Item 16	100
WASHER, FENDER, 3/8 IN	WP 0099 00, COEI, Item 19	100
HAND CRIMPER	WP 0099 00, COEI, Item 13	1
TAPE, "CAUTION HIGH VOLTAGE"	WP 0099 00, COEI, Item 11	6
ROD, GROUND, SECTIONAL, TYPE III, CLASS B, WITH ATTACHMENTS	WP 0099 00, COEI, Item 4	12
SIGN, PLASTIC, FLOOR STAND, "DANGER HIGH VOLTAGE/RESTRICTED AREA"	WP 0099 00, COEI, Item 5	6

**Table 3. Inventory List for Prime Power Cable Part A Kit Type 32A.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
CABLE, CONDUCTOR, 2/0, SHIELDED 5 kV, 133%, DIRECT BURIAL (5,000 FT PER REEL, PLASTIC OR METAL REEL)	WP 0099 00, COEI, Item 1	5000

**Table 4. Inventory List for Prime Power Cable Part B Kit Type 32B.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	6
CABLE, CONDUCTOR, 2/0, SHIELDED 5 kV, 133%, DIRECT BURIAL (4,000 FT PER REEL, PLASTIC OR STEEL REELS)	WP 0099 00, COEI, Item 1	5000

**ASSEMBLY AND PREPARATION FOR USE OF PRIME POWER TRANSFORMER CONNECTOR KIT**

The following procedures describe the general sequence of tasks required to assemble this equipment.

**Determination of Power Requirements**

Facility power requirements of the various Force Provider configurations are provided in WP 0017 00. In addition, Table 5 below provides guidance of power consumption for planning purposes. Although not part of basic Force Provider requirements, consideration should be given to plan for camp expansion such as additional command and control, communication, medical and maintenance facilities. For planning purposes, the following information is useful:

- A 150 kVA transformer can supply power to 8 to 12 TEMPER when ECU are used.
- A FP transformer (without distribution panel and DISE panels connected directly to transformer low-voltage side) can power a maximum of 8 tents.
- A maximum of 4 DISE panels can be connected to one FP transformer.
- The Containerized Batch Laundry (CBL) requires 2 each 100-A feeders.

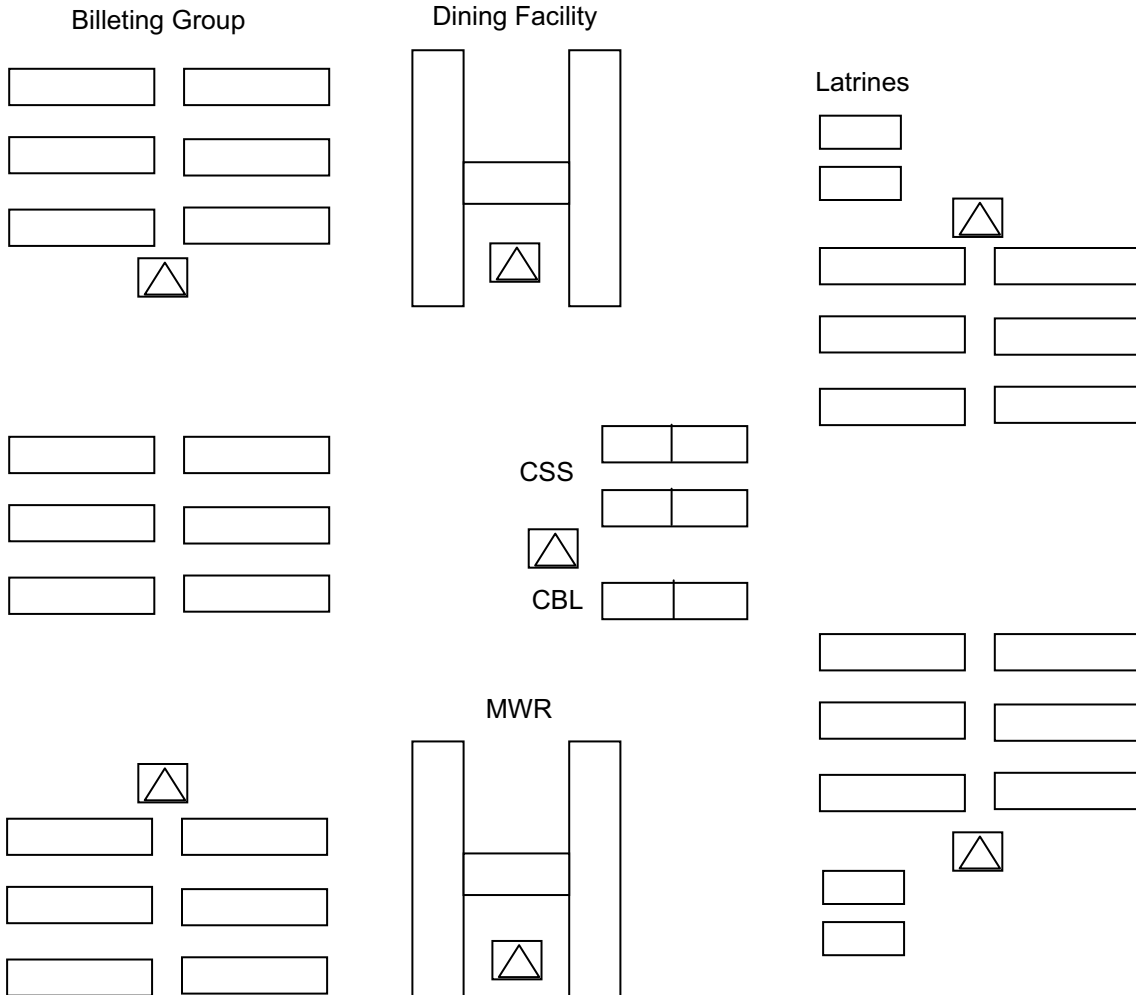
**Table 5. Load Survey of Force Provider 550 Person Module.**

ITEM/QUANTITY	VOLT	AMP	PH	KVA	DEMAND FACTOR	TOTAL LOAD IN KVA
<b>LAUNDRY (1 each)</b>						
DRYERS/2 each	208 V	118 A	3	85 kVA	100%	85 kVA
WASHERS/2 each	208 V	15 A	3	11 kVA	100%	11 kVA
LIGHTING	120 V	2.6 A	1	.32 kVA	100%	.32 kVA
ECU/1 each	208 V	26 A	3	9.5 kVA	100 %	9.5 kVA
<b>LAUNDRY TOTAL: 107 kVA</b>						
<b>LATRINES (4 each)</b>						
LIGHTING	120 V	2.6 A	1	.32 kVA	100%	.32 kVA
ECU/1 each	208 V	26 A	3	9.5 kVA	100 %	9.5 kVA
<b>LATRINE TOTAL: 25.2 kVA</b>						
<b>SHOWERS (2 each)</b>						
LIGHTING	120 V	2.6 A	1	.32 kVA	100%	.32 kVA
ECU/1 each	208 V	26 A	3	9.5 kVA	100 %	9.5 kVA
<b>SHOWER TOTAL: 22.4 kVA</b>						
<b>KITCHEN (1 each)</b>						
REFRIDGERATOR/1	120 V	6.9 A	1	.898 kVA	100%	.898 kVA
REFRIDGERATOR/1	120 V	10.5 A	1	12.6 kVa	100%	12.6 kVA
STEAMER/1 each	208 V	17 A	3	6.12 kVA	100%	6.12 kVA
FRYER/1 each	208 V	42 A	3	15 kVA	100%	15 kVA
OVEN/4 each	208 V	30 A	3	44 kVA	100%	44 kVA
FRYERS/1 each	208 V	25 A	3	9 kVA	100%	9 kVA
STEAMER/1 each	208 V	34 A	3	12.3 kVA	100%	12.3 kVA
SERVING TABLE/1	208 V	28 A	1	5.8 kVA	100%	5.8 kVA
ICE MACHINE/2 ea	208 V	10 A	1	4.2 kVA	100%	4.2 kVA
ICE MACHINE/2 ea	208 V	7 A	1	3.1 kVA	100%	3.1 kVA
GRIDDLE/1 each	208 V	60 A	3	21.6 kVA	100%	21.6 kVA
MIXER/1 each	120 V	9.4 A	1	1.2 kVA	100%	1.2 kVA
WARMER/1 each	120 V	12 A	1	1.4 kVA	100%	1.4 kVA
TOASTER/2 each	120 V	30 A	1	36 kVA	100%	36 kVA
COFFEE POT/1 each	208 V	31 A	3	11.5 kVA	100%	11.5 kVA
SERVING TABLE/1	208 V	34 A	1	7 kVA	100%	7 kVA
DRINK MACHINES	120 V	9.7 A	1	1.2 kVA	100%	1.2 kVA
WATER HEATER	208 V	5 A	3	.35 kVA	100%	.35 kVA
LIGHTING	120 V	10 A	1	2.56 kVA	100%	2.56 kVA
ECU/5 each	208 V	26 A	3	47.5 kVA	100%	47.5 kVA
<b>FOOD SERVICE TOTAL: 255 kVA</b>						
<b>MWR (1 each)</b>						
LIGHTING	120 V	5 A	1	1.2 kVA	100%	1.2 kVA
ECU/4 each	208 V	26 A	3	38 kVA	100%	38 kVA
ENTERTAINMENT	120 V	20 A	1	2.4 kVA	100 %	2.4 kVA
<b>MWR TOTAL: 41.6 kVA</b>						
<b>BILLETING (30 TENTS)</b>						
LIGHTING per TENT	120 V	2.64 A	1	127 kVA	75%	60 kVA
ECU/1 each	208 V	26 A	3	9.5 kVA	80%	228 kVA
<b>BILLETING TOTAL: 288 kVA</b>						
<b>FACILITY TOTAL: 740 kVA</b>						

- This above load estimate takes into account additional items brought into the base camp by users.
- Includes non-organic 64 kVA of low voltage lighting for perimeter and interior of the camp.
- ECU demand factors were estimated during a "hot" climate.

**Laying Conductor Cable**

Once power requirements have been determined the distribution layout can be developed based on the physical configuration and terrain features of the camp. The following pages show typical examples of distribution systems to meet different situations. A base camp layout using secondary distribution center with a 6-tent layout is illustrated below.



LEGEND	
Secondary Distribution Center	
35 kW Primary Distribution Panel	
25 kW Primary Distribution Panel	

**Force Provider Base Camp Layout (Using Secondary Distribution Center with 6-Tent Layout).**

Refer to WP 0029 00 for information on the set-up and operation of the Prime Power Fuel Kit.

Three-phase primary power will be distributed to the transformers through shielded 5 kV conductor cable. The cable must be buried or placed in conduit to protect personnel from lethal energy sources. The power distribution layout will detail the location of the power distribution cable and position of transformers.

Prime power personnel will oversee and inspect the cable trenches being prepared as part of the site preparation, and prior to laying the cable. The cable will be laid directly in the ground and covered. There may be special instances where additional protection to the cable is necessary. Conduit (not provided) will be necessary i.e. where high vehicle or heavy traffic is present. If it is necessary to surface lay medium-voltage cable, where untrained personnel will have access to it, it should be encased in conduit. Refer to WP 0019 00, under Site Preparation for Force Provider for emplacement of conduits.

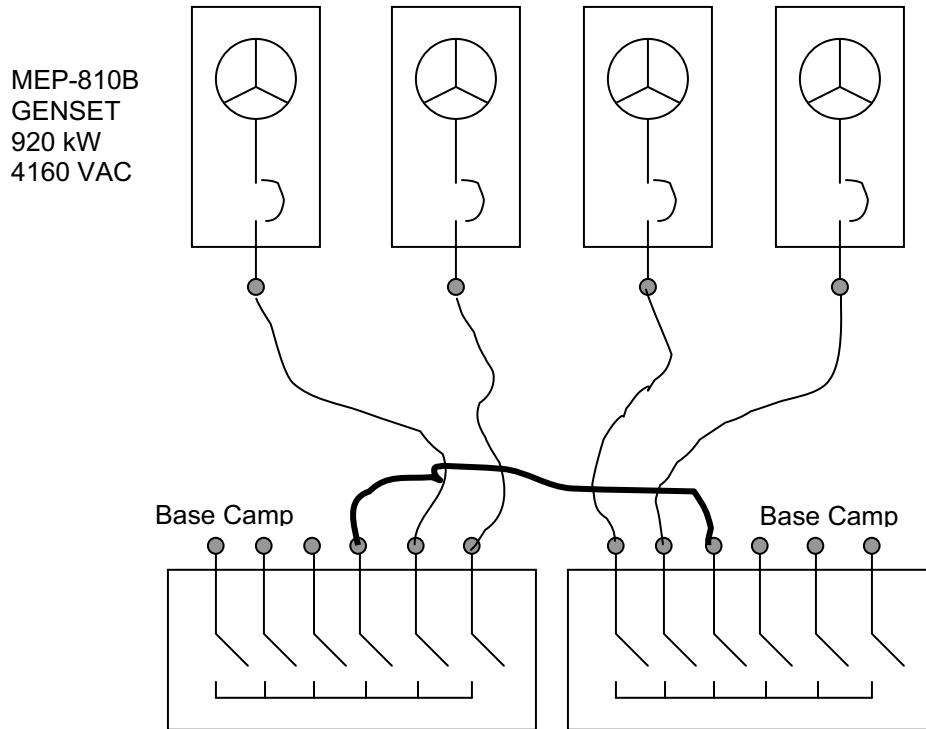
### **Power Plant**

Each module has a power load of about 800 kW when ECU are used for heating or air conditions. The power plant employed by the prime power unit will be either a 3.0 Mega-watt (MW) power plant using MEP-012A or MEP-208A generators or a 3.7 MW power plant using MEP-810B generators. The Deployable Power Generation & Distribution System (DPGDS) power plant requires approximately 100-feet x 100-feet plus adequate room for fuel supply and performing maintenance. The power plant will consume 3,000 to 4,500 gallons per day, depending on the load.

### **Prime Power Fuel Distribution**

The prime power fuel distribution equipment must be set up in proximity of the power plant(s). Vehicular access is required to facilitate refueling. The specific location and orientation of the fuel tanks must be coordinated between prime power and FP fuel distribution subsystem personnel. Set up instructions are provided in WP 0029 00. A refueling schedule must be developed to ensure fuel availability based on planned or actual consumption.

A Deployable Power Generation & Distribution (DPGDS) System 3.7 Mega-watt Power Plant connectivity scheme is illustrated below.

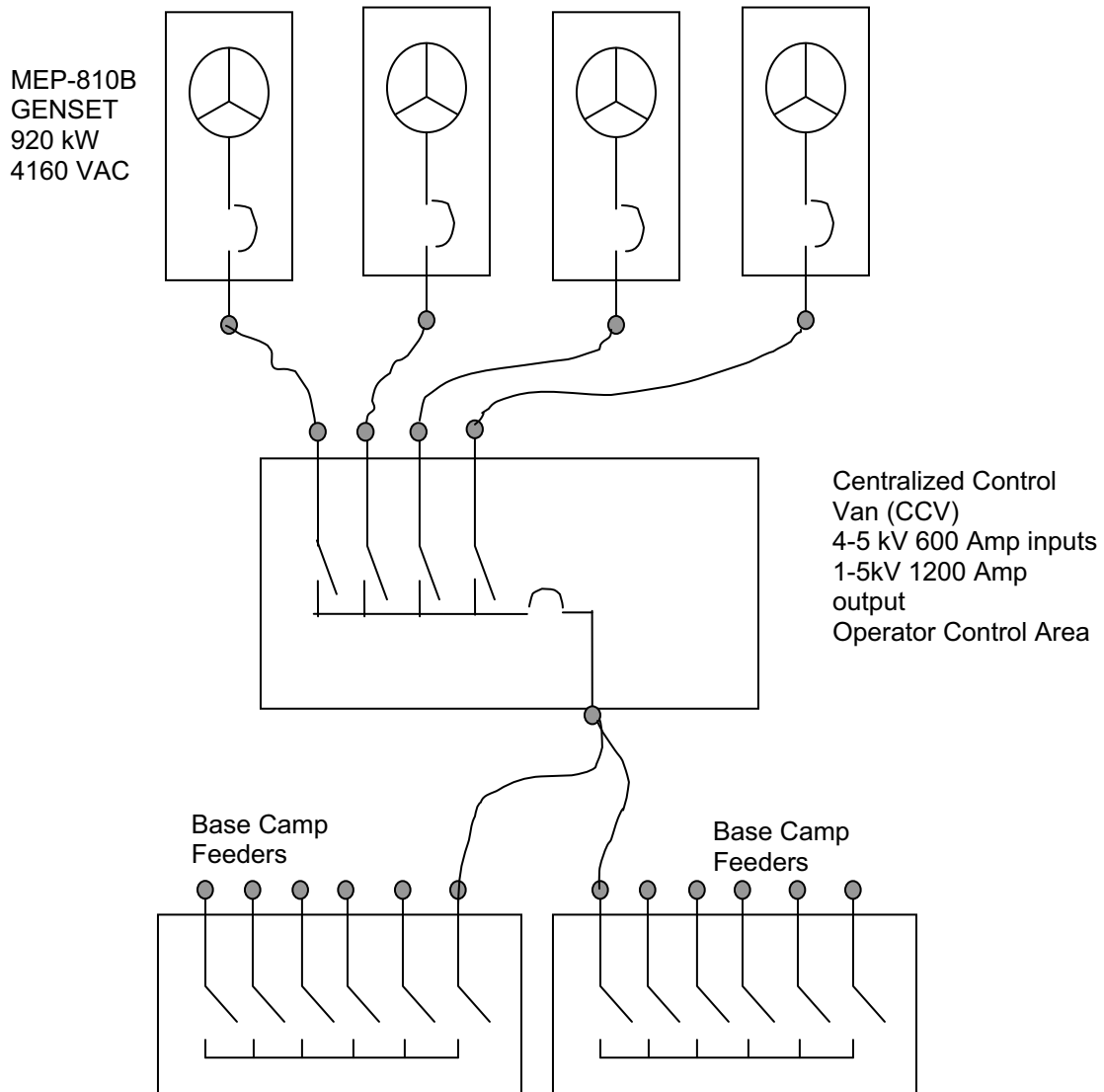


- Primary Switching Center (PSC) 4160 VAC
- 6-Way (200 or 600 Amp each Connection)
- Each PPU is connected to Way #1 and #2 Way #3 connects each PSC together forming a common bus.
- The remaining 6 ways are feeders for the base camp

**Deployable Power Generation & Distribution (DPGDS) System 3.7 Mega-watt Power Plant.**

**3.0 Mega-watt Power Plant with CCV**

The 3.0 MW power plant requires approximately 100-feet x 150-feet plus adequate room for fuel supply and performing maintenance. The power plant will consume 3,000 to 4,000 gallons per day, depending on the load. The connectivity scheme for the 3.0 MW power plant is illustrated below.



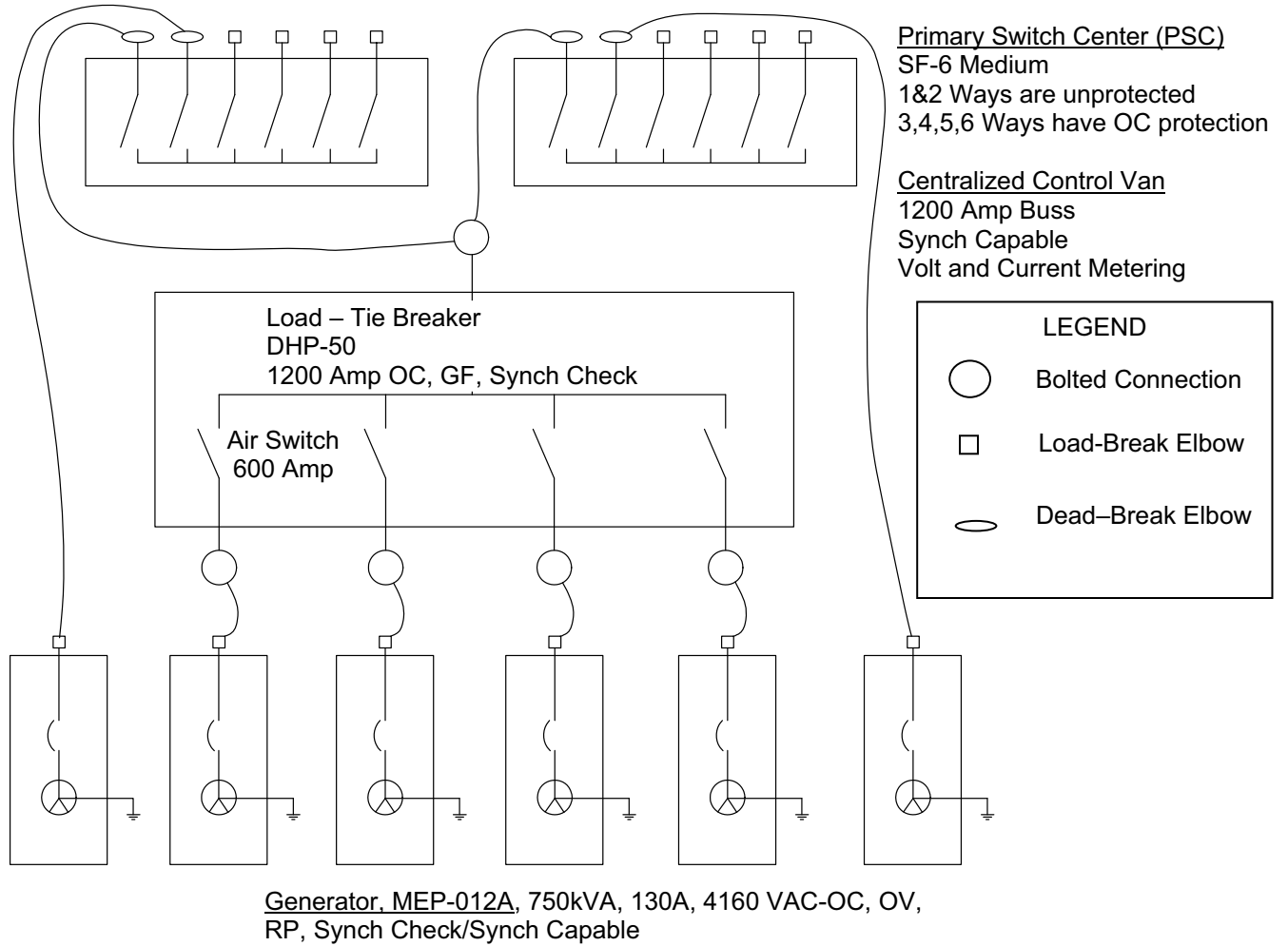
- Primary Switching Center (PSC)
- 4160 VAC
- 6-Way (200 or 600 Amp each Connection)
- Each PPU is connected to Way #1 and #2 Way #3 connects each PSC together forming a common bus.
- The remaining 6 ways are feeders for the base camp

**3.0 Mega-watt Power Plant with CCV.**



**Prime Power Plant Using 6 Generators and CCV**

The figure below shows the connectivity scheme for a power plant configuration using six MEP-012A generators, a primary switching center, and CCV. This power plant requires approximately 150 feet x 100 feet plus adequate room for fuel supply and performing maintenance. The power plant will consume 3,500 to 4,500 Gallons per day, depending on the load. The connectivity scheme is illustrated below.



**Prime Power Plant Using 6 Generators and CCV.**

## Setting up Transformers



### **WARNING**

High voltage is present in this system. DISE and PDISE support equipment using 120/208-VAC. Do not connect cables to the transformer with the power on. Death or severe injury may result.



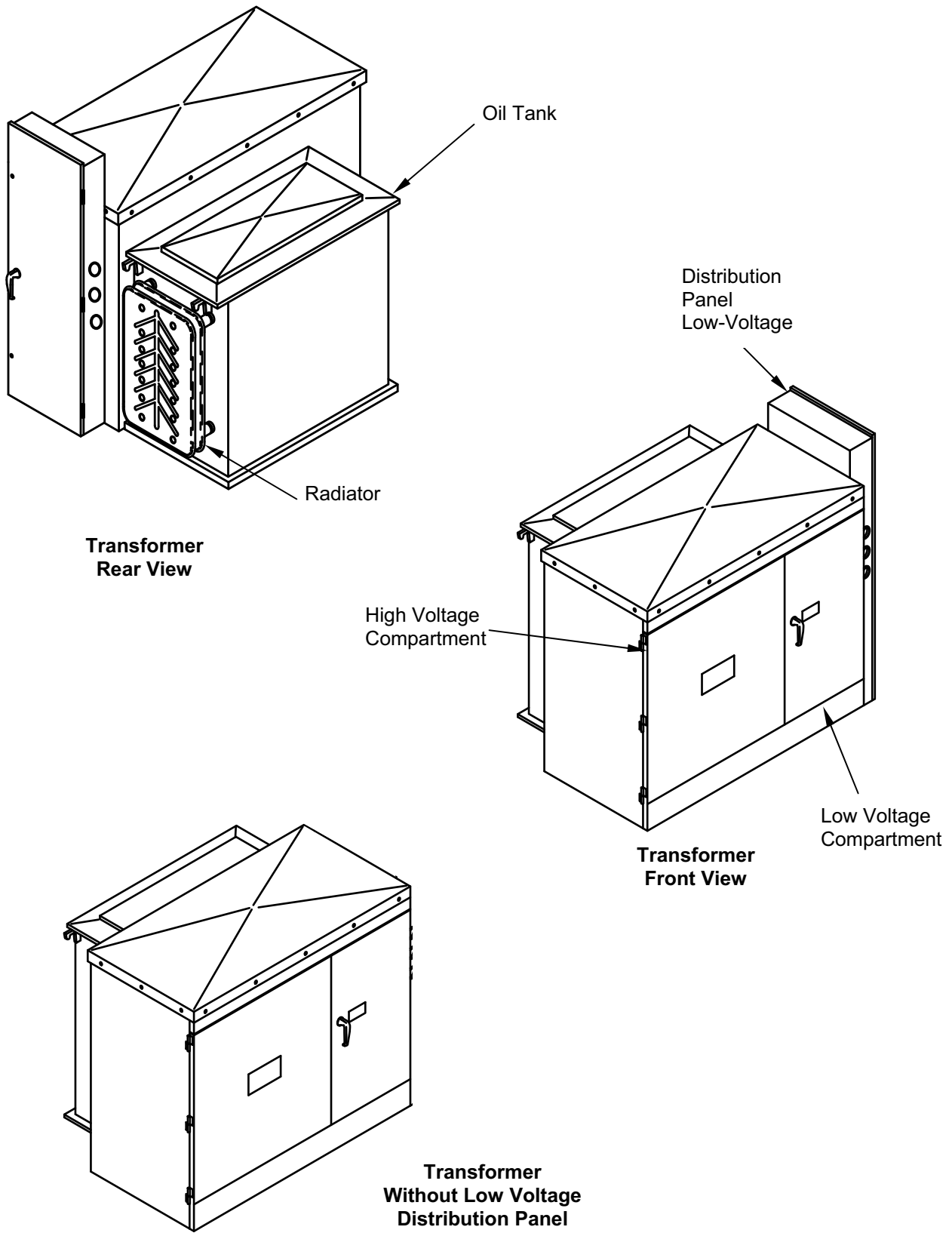
### **WARNING**

High voltage is present in this system. The Prime Power Transformer Connector Kit has high voltage present. Before connecting or disconnecting power notify all personnel in vicinity. Proper lockout/tag-out procedures must be adhered to in accordance with applicable OSHA regulations, Army regulation and local standard operating procedures.

### **CAUTION**

Use caution when lifting the transformer to prevent damage. Use all lifting lugs and spreaders to obtain a balanced vertical lift. **Do not use radiators as lifting point. When using a forklift, pick up transformer below the dunnage, or place it on a pallet. Do not lift the transformer directly at its frame.**

Distribute transformers to support the FP subsystems. Use the applicable previous diagram as a guide. If the FP module to be supported is of a non-standard configuration or has been augmented, make a rough power survey to determine the specific subsystem power requirements before siting the transformers. Proximity to the supported DISE must be considered when positioning the transformers. DISE panels, if used, must be located within five feet of the transformer unless the transformer is equipped with a distribution panel. The following illustration shows two configurations of transformers, one with, and one without a low voltage distribution panel.



Transformers With and Without Low Voltage Distribution Panel.

No specific preparation is required prior to use of the transformers, however, they should be inspected for evident damage. In addition, the oil gauge (1) located in the low voltage cabinet should be checked to determine if it indicates the proper oil level (25 °C). Refer to WP 0067 00 for corrective action.

The transformers consist of separate high voltage (2) and low voltage compartments (3) as well as an oil tank. The high voltage compartment is not accessible until the low voltage compartment is opened. High voltage (4) and low voltage cables (5) enter the transformer from below.

### Transformer Installation

The following considerations are applicable to the specific placement, grounding and connecting the transformers:

1. Placement of transformer:
  - a. The site should be relatively level and free of debris.
  - b. Position transformer so that the high-voltage cabinet (2) hangs over the open cable trench. This will allow the primary distribution cables (4) to be run into the high-voltage cabinet and prevent unauthorized tampering.
2. Grounding of transformer:
  - a. Place a ground rod (minimum 8-foot x  $\frac{5}{8}$ -inch) within 5-feet of transformer.
  - b. Connect #6 AWG copper wire between ground lug (located in secondary cabinet) to ground rod.
3. Connect load cables (5) to secondary side of transformer:

### NOTE

This applies only to transformers without low voltage distribution panel

- a. Connect ground wires to ground bus.
- b. Using the mechanical lugs connect a maximum of four 100-A pigtails (5) to the secondary side stabs.



### WARNING

High voltage is present in this system. Before connecting or disconnecting pigtails to DISE ensure power has not been energized. Death or serious injury could result when connecting or disconnecting an energized pigtail to a DISE. Refer to TM 9-6150-226-13 for operation of the DISE.

### NOTE

Pigtails cannot be disconnected once primary power has been energized.

- c. Connect DISE panels to the pigtails. (The pigtails cannot be left disconnected.)

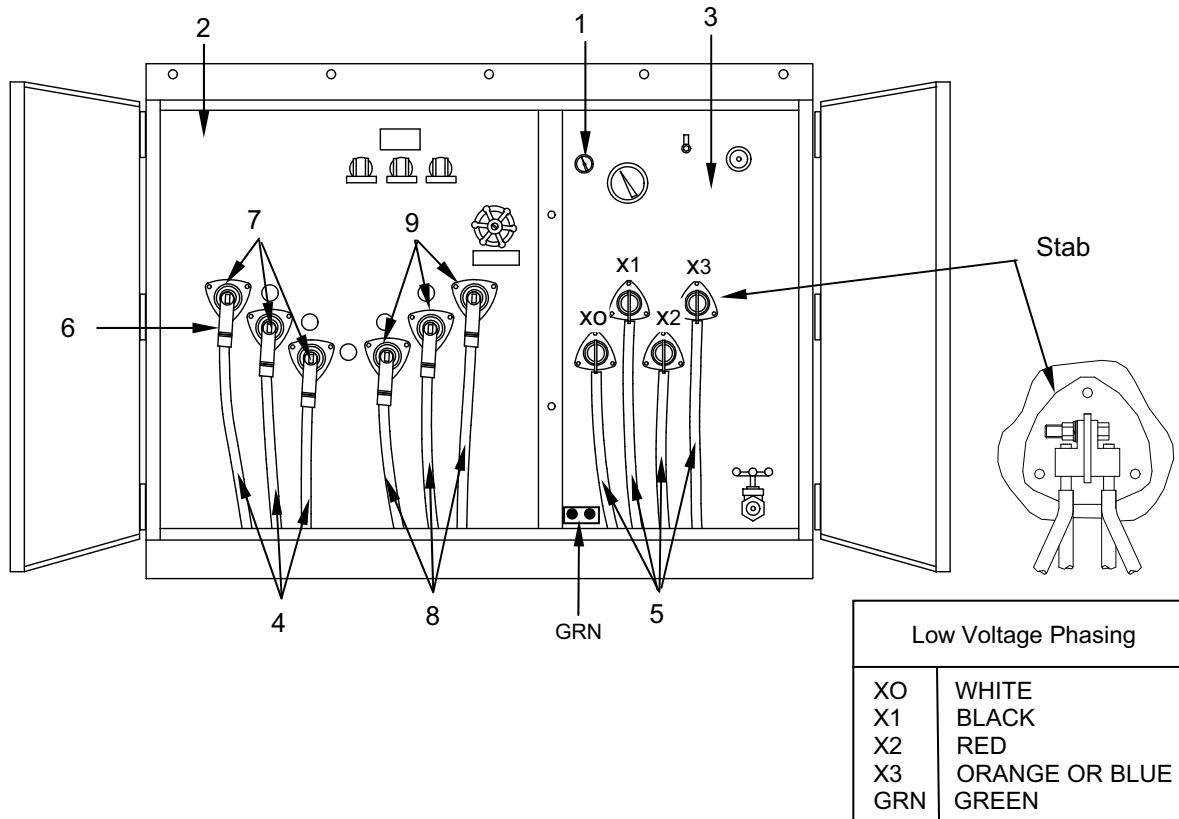
4. Terminating the primary cable:

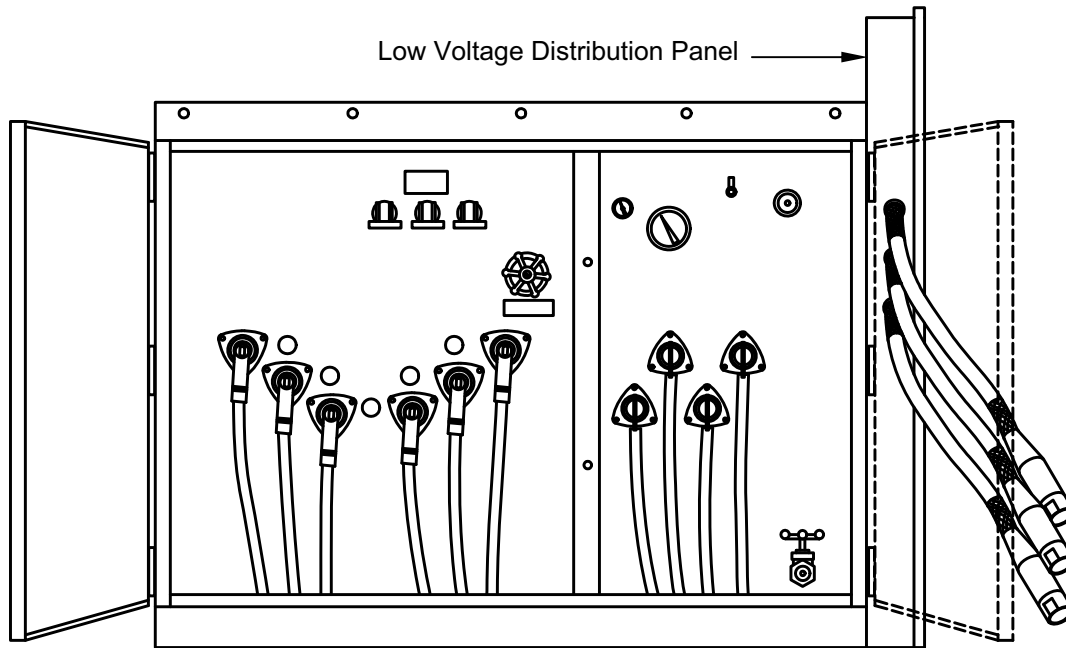


**WARNING**

High voltage is present in this system. Before connecting or disconnecting power notify all personnel in vicinity. Proper lockout/tag-out procedures must be adhered to in accordance with applicable OSHA Regulations, Army regulation, and local Standard Operating Procedure (SOP).

- a. Ensure cables are de-energized and circuit is locked-out in accordance with local SOP.
  - b. Terminate primary cables.
  - c. Connect primary cable shields to the transformer ground bus.
  - d. Connect load-break elbows (6) to the transformer's primary bushings (7).
  - e. If primary power will be fed through the transformer to another transformer use steps a. through d., to make cable (8) connections to bushings (9).
  - f. Adhere to proper phasing.
  - g. Mark all connections with colored tape.
5. Quality Control/Quality Assurance: Supervisor or other qualified individual must inspect terminations and connections.
  6. Secure the transformer cabinet: Using the penta-socket and a pad-lock secure the front cabinets to prevent unauthorized entry.





Transformer with Low Voltage Distribution Panel.

### Connection of System Components



#### WARNING

Do not connect power to any component of the power grid until the component has been grounded. Follow unit SOP and/or instructions furnished with the equipment for proper grounding. **Only qualified personnel shall connect load pigtails to transformers.** The power must be shut **OFF** when connections are made. Failure to observe this warning may result in severe injury or death by electrocution.

After all power grid components have been grounded, connect the grid in the sequence shown below, using the connector type indicated. Prime Power personnel will perform the following functions when connecting FP system components:

- Splice and terminate cable IAW manufacturer's instructions
- Test cable IAW National Electrical Testing Association (NETA) Standards
- Energize system
- Check voltage at output
- Make necessary changes in voltage output

Set up of the low-voltage distribution and medium-voltage distribution can be accomplished concurrently. The following table shows responsibilities and methods of connections for the various segments of the power distribution system.

**Table 6. Responsibilities and Connection Methods.**

ITEM #	CONNECTION	METHOD	RESPONSIBILITY
1	100-A/5-FT pigtails from DISE to Secondary (low voltage) cabinet of transformer	Mechanical Lug on low voltage stabs of transformer	Prime Power Personnel
2	60-A/100-foot, power cables from load to DISE	Class L Connector	Force Provider Company
3	Primary (high-voltage) side of transformer	(Load-break Elbow Connector)	Prime Power Personnel

**System Power-Up**

More than likely as feeders are completed they will be energized from the power plant. If the feeder is being powered from tactical generators then a scheduled outage will be necessary to transition to prime power.

To energize a feeder, proceed as follows:

1. Ensure that all personnel are clear of transformers.
2. If possible have qualified personnel observe the transformers and other components of distribution system with positive communication.
3. Lift the clearance and lockout IAW local SOP from the appropriate feeder.
4. Close the switch for that breaker.
5. Observe for any abnormal functions i.e. breaker re-opens indicating fault, fire, smoke or explosion.
6. Check voltage at all DISE panels.
7. Check for proper phase rotation at 3-phase loads. A suggested method to do this is to check the fan rotation of an ECU connected to the DISE.

**OPERATING PROCEDURES FOR MSPP**

Operate MSPP equipment as directed in supporting prime power unit SOP.

**OPERATING PROCEDURES FOR PDISE M100**

Operate the PDISE in accordance with TM 9-6150-226-13.

**END OF WORK PACKAGE**





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**FORCE PROVIDER  
OPERATION UNDER USUAL CONDITIONS – MODIFICATION SYSTEM COLD WEATHER (MSCW)**

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**GENERAL**

This WP contains procedures for the set up of a FP Module in the MSCW Configuration and the use of the CWK equipment. Information presented assumes an initial deployment of a FP Module in the MSCW configuration. If the MSCW is being applied as an upgrade, components in place but not required for operations below 32 °F, should be removed, cleaned and stored as described in WP 0035 00.

Before assembly and preparation for use of a FP Module in the MSCW Configuration the site selection, planning, preparation, and staking of the subsystem areas must be completed. Individual subsystem TRICON must be staged as described in WP 0022 00. However, the overall module layout as well as the staking diagrams provided in WP 0022 00 must be modified to reflect the need for:

- Additional water distribution site /Proximity of 20,000-Gallon Tank to serviced facility
- Additional wastewater collection site / Proximity of 20,000-Gallon Tank to serviced facility
- Vehicular accessibility to ASH located with TEMPER in the Billeting, Shower, Laundry, Latrine, Water Distribution, Wastewater Collection, Food Service, Administration, and MWR Subsystems
- Modified Food Service Subsystem layout to include additional TEMPER components
- Modified Latrine Subsystem layout to include location of 32 or 64-Foot TEMPER for WWET/T
- Marking and protecting utility distribution systems from damage during snow plowing operations

Utility requirements for individual subsystems described in WP 0022 00 through WP0037 00 are also applicable in the MSCW Configuration, however, different water distribution / wastewater evacuation hoses are used as described in this WP.

**SCOPE**

Assembly and preparation for use of an MSCW configured module consists of the following:

- Unpacking and inventory of individual subsystem equipment and applicable MSCW assets.
- Identification of equipment not needed for cold weather operation and repacking into appropriate TRICON.
- Assembly and preparation for use of individual subsystem and applicable MSCW equipment as described in WP 0023 00 through WP0038 00, and in this WP.
- Develop schedule for refueling the 120,000-BTU ASH installed in the Billeting, Shower, Laundry, Latrine, Water Distribution, Wastewater Collection, Food Service, Administration, and MWR Subsystems TEMPER.

**UNPACKING AND INVENTORY**

Unpack and inventory billeting subsystem components using Table 1 through 7 of this WP. Billeting equipment is packed in the following container types and quantities:

Seventeen TRICON Type 41A (Billeting Heater Kit)  
One TRICON Type 42A (Tent Kit, Part A)  
One TRICON Type 42B (Tent Kit, Part B)

One TRICON Type 42C (Tent Kit, Part C)  
 Three TRICON Type 43A (Water Bladder Kit)  
 One TRICON Type 44A (CWK Site Preparation Kit)  
 One TRICON Type 45A (Tent Accessory Kit)

To unpack the equipment, proceed as follows:

1. Open each container and check its contents against Tables 1 through 7 depending on the container type (the container type is stenciled on the left container door as illustrated in WP 0021 00). An inventory list located on the inside of the TRICON door can also be used to check contents.
2. Remove each item from the container and set it aside, but not in the area where a TEMPER or other equipment is to be positioned.
3. Place any dunnage and packing materials as well as special purpose web tiedown straps back into a TRICON for future use when repacking equipment.

**Table 1. Inventory List for Billeting Heater Kit TRICON Type 41A.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	6
DRUM FILL ADAPTER ASSEMBLY, TYPE II	WP 0100 00, COEI, Item 2	4
DEBRIS SCREEN, AIR CONDITIONER DUCT	WP 0100 00, COEI, Item 13	4
<b>HEATER, 120K BTUH, ASH</b>	WP 0100 00, COEI, Item 25	4
POWER CABLE, ADAPTER	TM 9-4520-258-14	4
REMOTE THERMOSTAT ASSEMBLY	TM 9-4520-258-14	4
EXTERNAL FUEL HOSE, 25 FT	TM 9-4520-258-14	4
EXHAUST ELBOW	TM 9-4520-258-14	4
EXHAUST PIPE AND GUARD ASSEMBLY	TM 9-4520-258-14	4
DUCT, RETURN/SUPPLY AIR, 12 IN X 180 IN	TM 9-4520-258-14	8
TECHNICAL MANUAL, ARMY SPACE HEATER TM 9-4520-258-14	WP 0100 00, BII, Item 1	4
TECHNICAL MANUAL, ARMY SPACE HEATER TM 9-4520-258-24P	WP 0100 00, BII, Item 2	1

**Table 2. Inventory List for CWK Tent Kit (Part A) TRICON Type 42A.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, TRANSVERSE	WP 0085 00, COEI, Item 4	4
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	8
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
<b>TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE IV, 32 FT, GREEN</b>	WP 0100 00, COEI, Item 43	2
PIN, TENT, WOOD, 24 IN	TM 10-8340-224-13	50
PIN, TENT, STEEL, 18 IN	TM 10-8340-224-13	120
FRAME, END SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	4
PURLIN ASSEMBLY	TM 10-8340-224-13	10
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	8

Table 2. Inventory List for CWK Tent Kit (Part A) TRICON Type 42A – Continued.

Subcomponent	Where Listed/Illustrated	Qty
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	4
FRAME, WINDOW SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	6
HEADER ASSEMBLY	TM 10-8340-224-13	6
PURLIN ASSEMBLY	TM 10-8340-224-13	30
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	6
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	12
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	6
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	6
FRAME ASSEMBLY, VESTIBULE, TEMPER	TM 10-8340-224-13	6
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	12
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	6
END SECTION, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	8
LINE, TENT	TM 10-8340-224-13	8
FLY, TENT, 16 FT, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	24
LINE, TENT	TM 10-8340-224-13	24
COVER, TENT, TEMPER	TM 10-8340-224-13	4
WINDOW SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	8
SLIP, TENT LINE	TM 10-8340-224-13	32
LINE, TENT	TM 10-8340-224-13	32
LINER, END SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	4
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	4
FLOOR, 8 FT, SINGLE PLY, TEMPER	TM 10-8340-224-13	8
VESTIBULE WITH DOOR, TEMPER	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	8
VESTIBULE TENT SECTION	TM 10-8340-224-13	2
LINE, TENT	TM 10-8340-224-13	8
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	2
FLOOR, VESTIBULE, SINGLE PLY, TEMPER	TM 10-8340-224-13	2
CONTAINER, VESTIBULE, TEMPER	TM 10-8340-224-13	2
PARTITION, TEMPER	TM 10-8340-224-13	6
PLENUM, EXTENDABLE, 16 FT, TEMPER	TM 10-8340-224-13	2
PLENUM, ENTRANCE 16 FT, TEMPER	TM 10-8340-224-13	2
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	8
TECHNICAL MANUAL, TEMPER TENT	TM 10-8340-224-23P	1
<b>REMAINING CWK TENT KIT ITEMS</b>		
FLOOR MAT, ALTERED ITEM	WP 0100 00, COEI, Item 21	6
HOSE ASSEMBLY, HEAT TRACE, 1-1/4 IN X 25 FT	WP 0100 00, COEI, Item 27	8
CORD, EXTENSION, 20A, 50 FT, CL L TO COMMERCIAL	WP 0100 00, COEI, Item 11	8
COVER, TENT, TEMPER	WP 0100 00, COEI, Item 41	4
PLENUM, END WALL, 16 FT, TEMPER	WP 0100 00, COEI, Item 35	2
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM TM 10-5419-206-13	WP 0100 00, BII, Item 4	1
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM TM 10-5419-206-23P	WP 0100 00, BII, Item 5	1

Table 3. Inventory List for CWK Tent Kit (Part B) TRICON Type 42B.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, TRANSVERSE	WP 0085 00, COEI, Item 4	4
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	8
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
<b>TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE IV, 32 FT, GREEN</b>	WP 0100 00, COEI, Item 43	2
PIN, TENT, WOOD, 24 IN	TM 10-8340-224-13	50
PIN, TENT, STEEL, 18 IN	TM 10-8340-224-13	120
FRAME, END SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	4
PURLIN ASSEMBLY	TM 10-8340-224-13	10
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	8
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	4
FRAME, WINDOW SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	6
HEADER ASSEMBLY	TM 10-8340-224-13	6
PURLIN ASSEMBLY	TM 10-8340-224-13	30
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	6
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	12
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	6
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	6
FRAME ASSEMBLY, VESTIBULE, TEMPER	TM 10-8340-224-13	6
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	12
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	6
END SECTION, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	8
LINE, TENT	TM 10-8340-224-13	8
FLY, TENT, 16 FT, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	24
LINE, TENT	TM 10-8340-224-13	24
COVER, TENT, TEMPER	TM 10-8340-224-13	4
WINDOW SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	8
SLIP, TENT LINE	TM 10-8340-224-13	32
LINE, TENT	TM 10-8340-224-13	32
LINER, END SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	4
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	4
FLOOR, 8 FT, SINGLE PLY, TEMPER	TM 10-8340-224-13	8
VESTIBULE WITH DOOR, TEMPER	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	8
VESTIBULE TENT SECTION	TM 10-8340-224-13	2
LINE, TENT	TM 10-8340-224-13	8
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	2
FLOOR, VESTIBULE, SINGLE PLY, TEMPER	TM 10-8340-224-13	2
CONTAINER, VESTIBULE, TEMPER	TM 10-8340-224-13	2
PARTITION, TEMPER	TM 10-8340-224-13	6
PLENUM, EXTENDABLE, 16 FT, TEMPER	TM 10-8340-224-13	2
PLENUM, ENTRANCE 16 FT, TEMPER	TM 10-8340-224-13	2
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	8
<b>REMAINING CWK TENT KIT ITEMS PART B</b>		

**Table 3. Inventory List for CWK Tent Kit (Part B) TRICON Type 42B – Continued.**

Subcomponent	Where Listed/Illustrated	Qty
FLOOR MAT, ALTERED ITEM	WP 0100 00, COEI, Item 21	6
HOSE ASSEMBLY, HEAT TRACE, 2-1/2 IN X 75 FT	WP 0100 00, COEI, Item 29	8
COVER, TENT, TEMPER	WP 0100 00, COEI, Item 41	4
PLENUM, END WALL, 16 FT, TEMPER	WP 0100 00, COEI, Item 35	2
CORD, EXTENSION, 20A, 50 FT, CL L TO COMMERCIAL	WP 0100 00, COEI, Item 11	8
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0100 00, BII, Item 3	1

**Table 4. Inventory List for CWK Tent Kit (Part C) TRICON Type 42C.**

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
SHELF, TRANSVERSE	WP 0085 00, COEI, Item 4	4
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	8
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
<b>TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE IV, 32 FT, GREEN</b>	WP 0100 00, COEI, Item 43	2
PIN, TENT, WOOD, 24 IN	TM 10-8340-224-13	50
PIN, TENT, STEEL, 18 IN	TM 10-8340-224-13	120
FRAME, END SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	4
PURLIN ASSEMBLY	TM 10-8340-224-13	10
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	8
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	4
FRAME, WINDOW SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	6
HEADER ASSEMBLY	TM 10-8340-224-13	6
PURLIN ASSEMBLY	TM 10-8340-224-13	30
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	6
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	12
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	6
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	6
FRAME ASSEMBLY, VESTIBULE, TEMPER	TM 10-8340-224-13	6
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	12
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	6
END SECTION, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	8
LINE, TENT	TM 10-8340-224-13	8
FLY, TENT, 16 FT, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	24
LINE, TENT	TM 10-8340-224-13	24
COVER, TENT, TEMPER	TM 10-8340-224-13	4
WINDOW SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	8
SLIP, TENT LINE	TM 10-8340-224-13	32
LINE, TENT	TM 10-8340-224-13	32
LINER, END SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	4
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	4
FLOOR, 8 FT, SINGLE PLY, TEMPER	TM 10-8340-224-13	8
VESTIBULE WITH DOOR, TEMPER	TM 10-8340-224-13	2

Table 4. Inventory List for CWK Tent Kit (Part C) TRICON Type 42C – Continued.

Subcomponent	Where Listed/Illustrated	Qty
SLIP, TENT LINE	TM 10-8340-224-13	8
LINE, TENT	TM 10-8340-224-13	2
VESTIBULE TENT SECTION	TM 10-8340-224-13	8
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	2
FLOOR, VESTIBULE, SINGLE PLY, TEMPER	TM 10-8340-224-13	2
CONTAINER, VESTIBULE, TEMPER	TM 10-8340-224-13	2
PARTITION, TEMPER	TM 10-8340-224-13	6
PLENUM, EXTENDABLE, 16 FT, TEMPER	TM 10-8340-224-13	2
PLENUM, ENTRANCE 16 FT, TEMPER	TM 10-8340-224-13	2
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	8
<b>REMAINING CWK TENT KIT ITEMS PART C</b>		
COVER, TENT, TEMPER	WP 0100 00, COEI, Item 41	4
PLENUM, END WALL, 16 FT, TEMPER	WP 0100 00, COEI, Item 35	2
FLOOR MAT, ALTERED ITEM	WP 0100 00, COEI, Item 21	6
HOSE ASSEMBLY, HEAT TRACE, 1-1/2 IN X 75 FT	WP 0100 00, COEI, Item 28	12
CORD, EXTENSION, 20A, 50 FT, CL L TO COMMERCIAL	WP 0100 00, COEI, Item 11	8
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0100 00, Bil, Item 3	1

Table 5. Inventory List for Water Bladder Kit TRICON Type 43A.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN (MODIFIED IAW 9-1-0607 TO ACCOMMODATE THE H82 EXHAUST STACK)	WP 0023 00 and TM 55-8145-203-13&P	1
SHELF, TRANSVERSE	WP 0085 00, COEI, Item 4	4
CONNECTORS	WP 0085 00, COEI, Item 2	3
SHORING BEAM	WP 0085 00, COEI, Item 5	8
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	4
<b>TRICON MODIFICATION KIT</b>	WP 00100 00, COEI, Item 1	1
DUCT ASSEMBLY	TM 10-5419-206-23P	1
COVER PLATE	TM 10-5419-206-23P	1
GASKET, TRICON MODIFICATION KIT	TM 10-5419-206-23P	1
NUT, LOCK, HEX HEAD, 1/4-20 UNC	TM 10-5419-206-23P	8
BOLT, HEX HEAD, 1/4-20 UNC X 1 IN	TM 10-5419-206-23P	8
ADAPTOR KIT, TRICON, WATER HEATER	TM 10-5419-206-23P	1
ANGLE FLANGE, 7 IN, 26 GA GALVANIZED	TM 10-5419-206-23P	1
PIPE, DUCT, 7 IN X 24 IN, 26 GA GALVANIZED	TM 10-5419-206-23P	4
RAIN CAP, 7 IN, 26 GA GALVANIZED	TM 10-5419-206-23P	1
<b>TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE XX, 64 FT, GREEN</b>	TM 10-8340-224-13	2
PIN, TENT, WOOD, 24 IN	TM 10-8340-224-13	108
FRAME, END SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	2
HEADER ASSEMBLY	TM 10-8340-224-13	4
PURLIN ASSEMBLY	TM 10-8340-224-13	10
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	8
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	2
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	4
FRAME, WINDOW SECTION, TEMPER (W/COVER)	TM 10-8340-224-13	7
HEADER ASSEMBLY	TM 10-8340-224-13	7
PURLIN ASSEMBLY	TM 10-8340-224-13	35

Table 5. Inventory List for Water Bladder Kit TRICON Type 43A – Continued.

Subcomponent	Where Listed/Illustrated	Qty
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	7
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	14
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	7
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	7
FRAME ASSEMBLY, VESTIBULE, TEMPER	TM 10-8340-224-13	6
FRAME, VESTIBULE, DOOR POST	TM 10-8340-224-13	24
FRAME, VESTIBULE, HEADER	TM 10-8340-224-13	6
END SECTION, TEMPER	TM 10-8340-224-13	4
SLIP, TENT LINE	TM 10-8340-224-13	8
LINE, TENT	TM 10-8340-224-13	8
FLY, TENT, 16 FT, TEMPER	TM 10-8340-224-13	8
SLIP, TENT LINE	TM 10-8340-224-13	48
LINE, TENT	TM 10-8340-224-13	48
COVER, TENT, TEMPER	TM 10-8340-224-13	14
WINDOW SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	16
SLIP, TENT LINE	TM 10-8340-224-13	64
LINE, TENT	TM 10-8340-224-13	64
LINER, END SECTION, TEMPERATE, TEMPER	TM 10-8340-224-13	4
LINER, INTERMEDIATE, TEMPERATE, TEMPER	TM 10-8340-224-13	12
VESTIBULE WITH DOOR, TEMPER	TM 10-8340-224-13	2
SLIP, TENT LINE	TM 10-8340-224-13	8
VESTIBULE TENT SECTION	TM 10-8340-224-13	2
LINE, TENT	TM 10-8340-224-13	8
DOOR, VESTIBULE, TENT	TM 10-8340-224-13	2
CONTAINER, VESTIBULE, TEMPER	TM 10-8340-224-13	2
PIN, TENT, STEEL, 12 IN	TM 10-8340-224-13	212
CONTAINER, TENT PIN, TEMPER	TM 10-8340-224-13	8
<b>REMAINING WATER BLADDER KIT ITEMS</b>		
PIN, TENT, STEEL, 18 IN	WP 0100 00, COEI, Item 42	212
FLOOR MAT, ALTERED ITEM	WP 0100 00, COEI, Item 21	6
TECHNICAL MANUAL, TEMPER TENT TM 10-8340-224-23P	WP 0100 00, Bil, Item 3	1

Table 6. Inventory List for CWK Site Preparation Kit TRICON Type 44A.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN	TM 55-8145-203-13&P, or WP 0085 00, COEI, Item 1	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL	WP 0085 00, COEI, Item 9	1
CONTAINER, REUSABLE, BULK EQUIPMENT, MEDIUM	WP 0085 00, COEI, Item 10	1
DRILL BIT, TE-Y, 5/8-21	WP 0100 00, COEI, Item 56	8
DRIVING BIT, STAKE, TE-Y-RD3/4	WP 0100 00, COEI, Item 57	4
DRILL, ROTARY, HAMMER, TE76 ATC, DLX 115V	WP 0100 00, COEI, Item 58	4
DRILL BIT, TE-Y, 1-1/4-36	WP 0100 00, COEI, Item 59	4
EXTENSION CORD, 25 FT, 120V, GFCI	WP 0100 00, COEI, Item 60	20
STAKE DRIVING TOOL, LOCKING	WP 0100 00, COEI, Item 61	4
SHOVEL, SNOW, PLASTIC, COMMERCIAL	WP 0100 00, COEI, Item 62	72
RAKE SNOW, COMMERCIAL	WP 0100 00, COEI, Item 63	72
TORCH ASSEMBLY, PROPANE, CYLINDER	WP 0100 00, COEI, Item 64	4
BAG, SAND, ACRYLIC, GREEN	WP 0100 00, COEI, Item 65	60

Table 6. Inventory List for CWK Site Preparation Kit TRICON Type 44A – Continued.

Subcomponent	Where Listed/Illustrated	Qty
RIBBON, FLAGGING, SURVEYOR'S, FLUORESCENT PINK, 50 YARD ROLL	WP 0100 00, COEI, Item 66	9
BLADE SET, 1/2 IN SHANK, METAL, 18TPI	WP 0100 00, COEI, Item 67	1
BLADE SET, 1/2 IN SHANK, WOOD, 10TPI	WP 0100 00, COEI, Item 68	1
MALLET RUBBER HEAD, 24 OZ, 15 IN	WP 0100 00, COEI, Item 69	12
PUNCH, ALIGNING, 12 IN X 1/4 IN POINT	WP 0100 00, COEI, Item 70	12
RECIPROCATING IN-LINE SAW, 1/2 IN	WP 0100 00, COEI, Item 71	1

Table 7. Inventory List for Tent Accessory Kit TRICON Type 45A.

Subcomponent	Where Listed/Illustrated	Qty
CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS, GREEN (MODIFIED IAW 9-1-0607 TO ACCOMMODATE THE H82 EXHAUST STACK)	WP 0023 00 and TM 55-8145-203-13&P	1
CONNECTORS	WP 0085 00, COEI, Item 2	3
SPECIAL PURPOSE WEB, TIEDOWN	WP 0085 00, COEI, Item 13	2
CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL	WP 0085 00, COEI, Item 9	3
<b>TRICON MODIFICATION KIT</b>	WP 0100 00, COEI, Item 1	1
DUCT ASSEMBLY	TM 10-5419-206-23P	1
COVER PLATE	TM 10-5419-206-23P	1
GASKET, TRICON MODIFICATION KIT	TM 10-5419-206-23P	1
NUT, LOCK, HEX HEAD, 1/4-20 UNC	TM 10-5419-206-23P	8
BOLT, HEX HEAD, 1/4-20 UNC X 1 IN	TM 10-5419-206-23P	8
ADAPTOR KIT, TRICON, WATER HEATER	TM 10-5419-206-23P	1
ANGLE FLANGE, 7 IN, 26 GA GALVANIZED	WP 0100 00, COEI, Item 3	1
PIPE, DUCT, 7 IN X 24 IN, 26 GA GALVANIZED	WP 0100 00, COEI, Item 34	4
RAIN CAP, 7 IN, 26 GA GALVANIZED	WP 0100 00, COEI, Item 37	1
<b>REMAINING ACCESSORY KIT ITEMS</b>		
BULB, LIGHT FLUORESCENT	WP 0100 00, COEI, Item 32	20
SWITCH, ROTARY	WP 0100 00, COEI, Item 39	5
FILTER, FLUID	WP 0100 00, COEI, Item 19	5
HEATER, 110K BTUH, PORTABLE, DF/KEROSENE	WP 0100 00, COEI, Item 26	6
VALVE, SOLENOID	WP 0100 00, COEI, Item 49	5
FRAME, WINDOW SECTION, TEMPER (W/COVER)	WP 0100 00, COEI, Item 18	4
HEADER ASSEMBLY	TM 10-8340-224-13	4
PURLIN ASSEMBLY	TM 10-8340-224-13	20
RIDGE EXTENDER ASSEMBLY	TM 10-8340-224-13	4
EAVE EXTENDER ASSEMBLY	TM 10-8340-224-13	8
COVER, FRAME SECTION, TEMPER	TM 10-8340-224-13	4
ARCH ASSEMBLY, TEMPER	TM 10-8340-224-13	4
WINDOW SECTION, DESERT/TROPICAL, TEMPER	WP 0100 00, COEI, Item 47	4
FLY, TENT, 16 FT, TEMPER	WP 0100 00, COEI, Item 23	2
COVER, TENT, TEMPER	WP 0100 00, COEI, Item 41	4
LINER, INTERMEDIATE, DESERT/TROPICAL, TEMPER	WP 0100 00, COEI, Item 31	4
FLOOR, 8 FT, INSULATED, TEMPER	WP 0100 00, COEI, Item 22	16
PARTITION, TEMPER	WP 0100 00, COEI, Item 33	2
DRUM FILL ADAPTER ASSEMBLY, TYPE II	WP 0100 00, COEI, Item 2	1
REMOTE THERMOSTAT ASSEMBLY	WP 0100 00, COEI, Item 45	2
TRANSFORMER, REMOTE	WP 0100 00, COEI, Item 46	5
COUPLING, FUEL PUMP	WP 0100 00, COEI, Item 12	5



**Table 7. Inventory List for Tent Accessory Kit TRICON Type 45A – Continued.**

Subcomponent	Where Listed/Illustrated	Qty
ELECTRODE ASSEMBLY	WP 0100 00, COEI, Item 14	20
COMBUSTION RELAY ASSEMBLY	WP 0100 00, COEI, Item 7	5
VALVE, SOLENOID	WP 0100 00, COEI, Item 49	5
DEBRIS SCREEN, AIR CONDITIONER DUCT	WP 0100 00, COEI, Item 13	10
ENDWALL, TEMPER, TRICON	WP 0100 00, COEI, Item 16	4
ENDWALL, TEMPER, VEHICLE	WP 0100 00, COEI, Item 17	2
ENDWALL, TEMPER, ISO, END OPENING	WP 0100 00, COEI, Item 15	1
CORD, EXTENSION, 20A, 50 FT, CL L TO COMMERCIAL	WP 0100 00, COEI, Item 11	6
FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND	WP 0100 00, COEI, Item 20	18
GAGE, PRESSURE, DIAL, 10 PSI	WP 0100 00, COEI, Item 24	5
CABLE TIE, NYLON, 14 IN, 100LB	WP 0100 00, COEI, Item 4	2
SWITCH, TOGGLE	WP 0100 00, COEI, Item 40	5
CIRCUIT BREAKER, 15A, SINGLE POLE	WP 0100 00, COEI, Item 6	5
CIRCUIT BREAKER W/MOUNTING HARDWARE	WP 0100 00, COEI, Item 5	5
PRESSURE SWITCH, AIR DIFFERENTIAL	WP 0100 00, COEI, Item 36	5

**ASSEMBLY AND PREPARATION FOR USE OF MSCW EQUIPMENT**

The following sections describe the assembly and use of MSCW equipment by subsystem. Some functions apply to more than one subsystem as noted at the beginning of the procedures. These are summarized as follows:

**Table 8. MSCW Functions.**

FUNCTION	APPLICABLE TO SUBSYSTEMS
Erect TEMPER using modified vehicle end walls shipped in TRICON 45A (For WWET/T)	Latrine
Installing ASH into TEMPER	Billeting, Laundry, Shower, Latrine (WWET/T), Food Service, Administration, and MWR
Preparing TRICON 43A and 45A for use with M-80/H-82 Water Heater	Laundry, Shower (2), and Food Service
Installing heat traced hoses	Water distribution and Wastewater Collection
Marking of Utility Lines	All Subsystems except Transportation and Site Preparation

**Table 9. MSCW TRICON Assignment.**

TRICON	Contents	Qty	TRICON Type	Primary Subsystem Assignment
41A	Billeting Heater Kit	17	Standard TRICON	All Subsystems use ASH except: Fuel Storage and Distribution, Floodlights, and Modification Systems
42A	Tent Kit	1	Standard TRICON	Food Service Subsystem
42B	Tent Kit	1	Standard TRICON	Latrine Subsystem
42C	Tent Kit	1	Standard TRICON	Contingency Assets

**Table 9. MSCW TRICON Assignment – Continued.**

TRICON	Contents	Qty	TRICON Type	Primary Subsystem Assignment
43A	Water Bladder Tent Kit	3	Modified TRICON *	Water Distribution Subsystem (2) Wastewater Collection Subsystem (1) (TRICON used in Laundry and Shower)
44A	Site Preparation Kit	1	Standard TRICON	Shared (Administration Subsystem)
45A	Tent Accessory Kit	1	Modified TRICON *	Food Service Subsystem

\* Modified TRICON used with food service, laundry, and shower (2) subsystems

**TRANSPORTATION AND STORAGE CONTAINER SUBSYSTEM**

The MSCW is packed into twenty-five TRICON, four of which are modified to accept the exhaust stack of an M-80/H-82 Water heater. These must be prepared for use by laundry, shower and food service subsystem personnel as described under LAUNDRY SUBSYSTEM in this WP. Stage containers with subsystems identified in Table 9, above. After unpacking, re-position TRICON 43A as necessary.

**BILLETING AND ADMINISTRATIVE SUBSYSTEMS**

Use the following procedures to assemble and prepare the billeting and administrative subsystems in the MSCW configuration. This WP contains only those procedures that are different from the standard configuration described in WP 0024 00 and WP 0033 00, respectively. Whenever procedures are identical, they are referenced to the standard configuration.

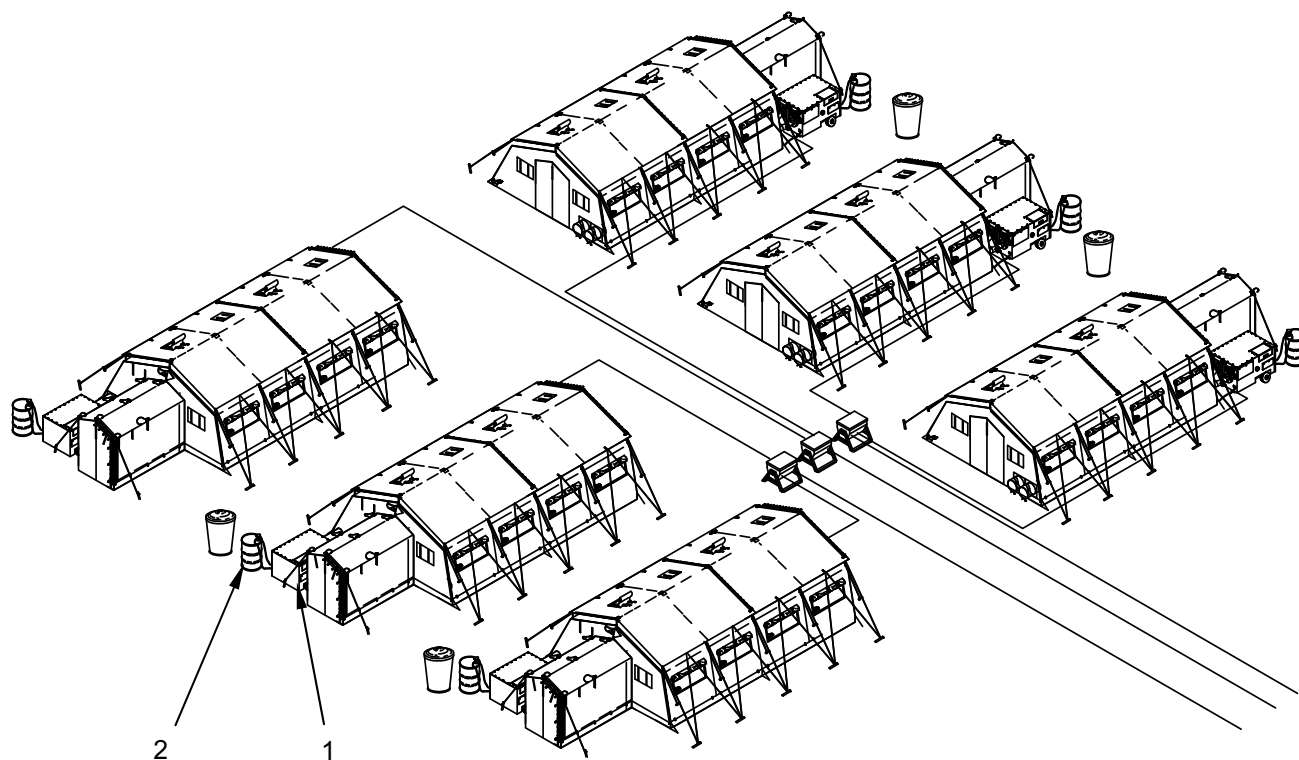
**ASSEMBLY AND PREPARATION FOR USE OF BILLETING TEMPER**

1. In the MSCW configuration both subsystems are set up identically to the standard configurations (Refer to the respective Staking and Staging Diagrams, WP 0022 00). Refer to WP 0024 00 and WP 0033 00 as applicable to set up the Type IV, 20-foot x 32-foot TEMPER. ASH heaters (1) and 50-gallon fuel drums (2) must be installed instead of the ECU as described below.

**NOTE**

When the MSCW is applied to an existing, deployed module, remove the ECUs from the TEMPER as described in WP 0040 00. Perform PMCS on the ECU as described in WP 0059 00, before packing them into TRICON 1B (Billeting) or TRICON 12C and 12E Administration) as described in WP 0040 00 and WP0049 00, respectively.

2. Use procedures found in TM 10-8340-224-13 to erect the Type IV, 20-foot x 32-foot TEMPER. Rubber mallets and 12-inch drift pins to aid in aligning the frame header with the assembled arch section are provided in TRICON 44A. Similarly, a rotary hammer drill is furnished to aid in driving the tent stakes.

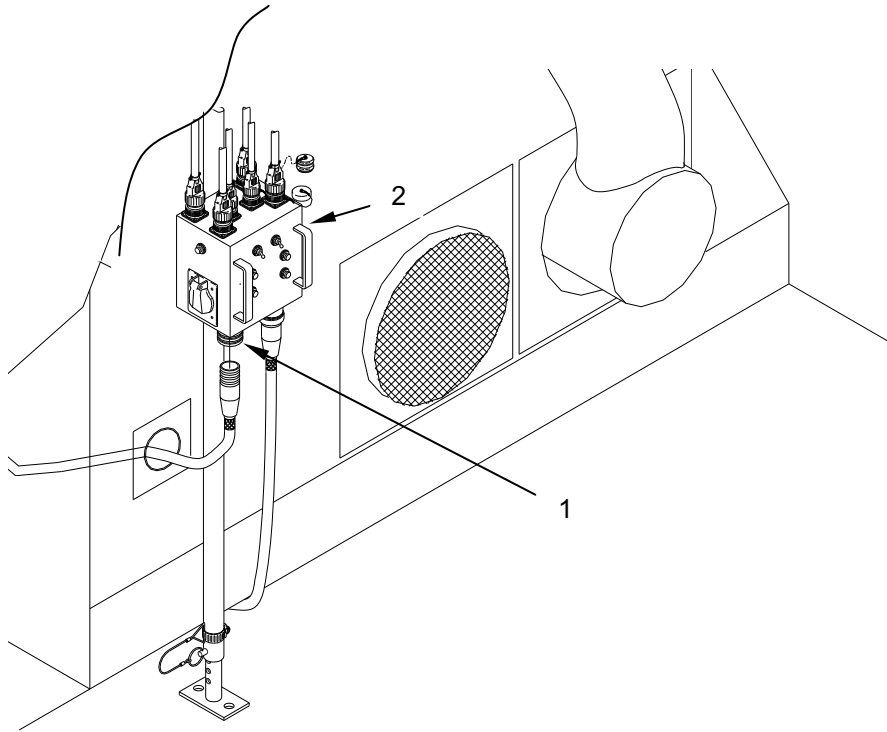


## ASSEMBLY AND PREPARATION FOR USE OF BILLETING AND ADMINISTRATIVE POWER SUPPLY

### CAUTION

In the MSCW configuration, it will be necessary to bury, or otherwise protect the power cables from vehicular traffic created by frequent ASH heater refueling as well as snow removal operations.

Use procedures in WP 0024 00 and WP 0033 00 as appropriate, to assemble the billeting power supply equipment. Connect the ASH power cable to the J2 Power-Out connector (1) on the TEMPER power distribution box (2) instead of the ECU cable shown in WP 0024 00 and WP 0033 00.



### BILLETING AND ADMINISTRATIVE SUBSYSTEM EQUIPMENT LAYOUT

Set up billeting equipment as described in WP 0024 00, and administrative facilities equipment as described in WP 0033 00. Place a snow shovel and snow rake (shipped in TRICON 44A) together with other cleaning equipment near each entrance of every TEMPER.

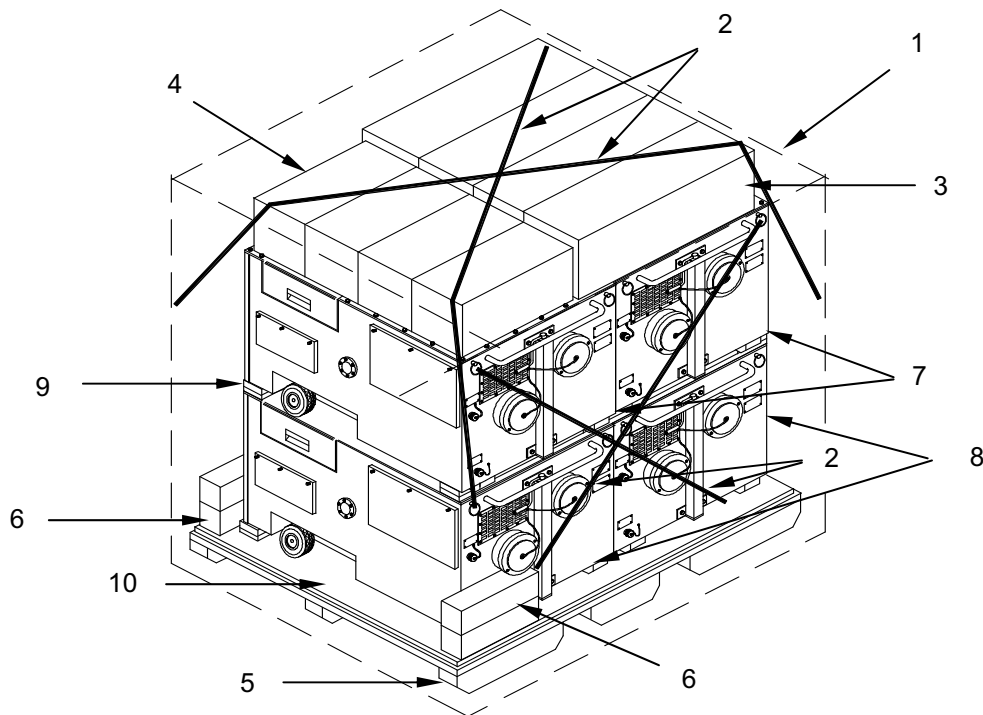
### INSTALLATION OF ASH HEATERS IN BILLETING AND ADMINISTRATIVE TEMPER

#### NOTE

When the ASH heaters are being installed onto the TEMPER, remove and service the ECU, if applicable. Pack the ECU as described in WP 0040 00 and WP 0049 00.

1. Locate the ASH heaters in Type 41A TRICON (1).
2. Open TRICON and release the special purpose tiedown straps (2).
3. Remove four large (3) and four small (4) heater duct boxes from top of heater stack.
4. Remove skid (5) from TRICON with forklift.
5. Remove four boxes containing drum fill adapters (6) from skid (5).
6. Retrieve special purpose tiedown straps (2) and remove packing and preservation materials.
7. Use forklift to lift upper heaters (7) off lower heaters (8).
8. Remove reusable skid boards (9) from top of lower heaters (8).

9. Use forklift to lift lower heaters (8) off lower skid boards (10).
10. Place skid boards (9) and (10) onto empty skid (5) and return skid into container (1) for later use.



### NOTE

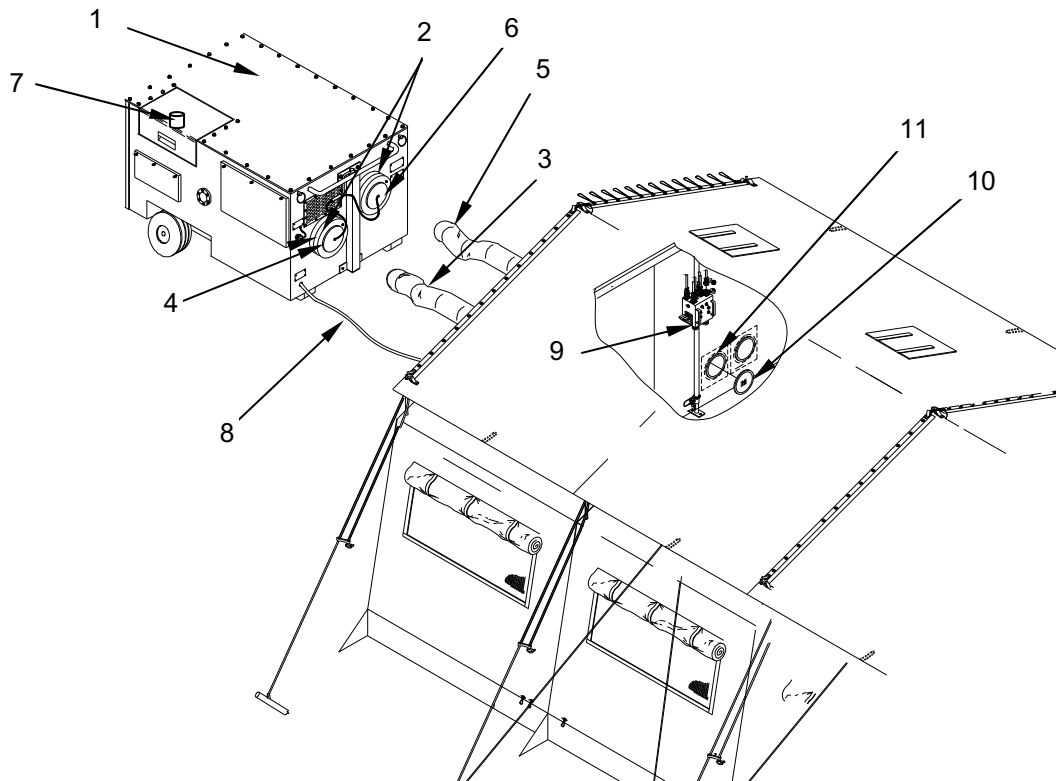
Using lumber or dunnage between heater and ground will help prevent corrosion during long deployments.

11. Move ASH (1) (described in TM 9-4520-258-14) into position at end wall of TEMPER, with duct connections, (2) facing TEMPER.
12. Assemble and prepare the ASH heater for operation as described in TM 9-4520-258-14.

### NOTE

Observe that airflow directional arrow on ducts are facing in correct direction.

13. Attach TEMPER return duct (3) (that does not have plenum attached) to heater return air inlet (4).
14. Attach TEMPER supply duct (5) (which has plenum attached) to heater supply air outlet (6).
15. Install debris screen (10) on return duct opening (11).
16. Ensure heater mode selector switch (7) is set to OFF position.
17. Route heater power cable assembly (8) through TEMPER cable sock or between end section and floor, and connect to TEMPER power distribution box J2 Power-Out connector (9). Connect dust caps together.



### **OPERATING INSTRUCTIONS FOR BILLETING AND ADMINISTRATIVE SUBSYSTEM**

Operate the billeting subsystem by following the procedures in the component technical manuals listed below. Ensure the interior of the TEMPER are cleaned on a daily basis. Clear snow accumulations from the TEMPER roof, entrance, side skirts, and end walls using snow rakes and snow shovels furnished in TRICON 44A. Establish and monitor fuel delivery schedule for ASH to ensure continued operation.

### **OPERATING PROCEDURES FOR TEMPER**

Operate billeting TEMPER in accordance with TM 10-8340-224-13. Obtain surveyor's ribbon flag from TRICON 44A. Mark the location of utility lines and hoses to prevent damage during snow removal operations. Also obtain and fill a sufficient number of sand bags. Place the bags onto the TEMPER flaps to secure them in place. Remove accumulated snow from the TEMPER roof as necessary. Keep entrances around the vestibules free of snow. Periodically remove snow from the sides of the TEMPER to relieve weight stress.

### **OPERATING PROCEDURES FOR BILLETING POWER EQUIPMENT**

Operate power group equipment in accordance with WP 0024 00 and TM 9-6150-226-13.

## OPERATING PROCEDURES FOR PDISE M100

Operate the PDISE in accordance with TM 9-6150-226-13.

## OPERATING PROCEDURES FOR ASH HEATERS

Operate the ASH Heaters in accordance with TM 9-4520-258-14.

## LAUNDRY SUBSYSTEM

Use the following procedures to assemble and prepare the laundry subsystem in the MSCW configuration. This WP contains only those procedures that are different from the standard configuration described in WP 0025 00. Whenever procedures are identical they are referenced to the standard configuration.

### ASSEMBLY AND PREPARATION FOR USE OF LAUNDRY TEMPER

In the MSCW configuration, a modified TRICON End wall is installed onto the 20-foot x 32-foot laundry sorting TEMPER to connect the TRICON containing the M-80 water heater to the TEMPER. Also, an 8-foot TEMPER window section is added, extending the tent to 40-feet. Use TM 10-8340-224-13 to erect the TEMPER, and install the modified, instead of the standard, endwall.

### PREPARATION AND INSTALLATION OF ASH HEATER

Install ASH into laundry subsystem TEMPER as described under billeting subsystem, above.

### ASSEMBLY AND PREPARATION FOR USE OF MODIFIED TRICON

Modified TRICON (type 43A and 45A) are used to house an M-80/H-82 water heater in the CBL, CSS and food service subsystems. To prepare the modified TRICON for use, install the water heater exhaust adapter kit as described below:

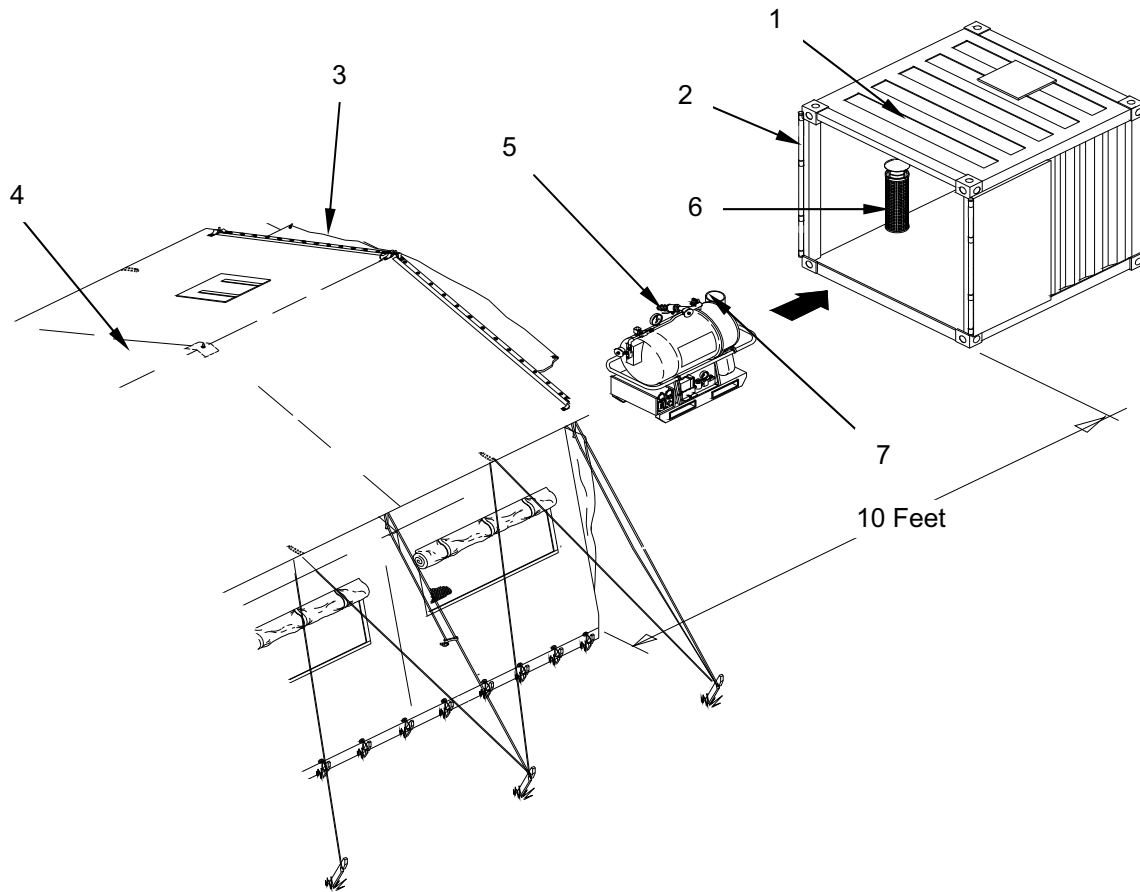
1. Locate modified TRICON container 43A, and obtain M-80 TRICON adapter kit from TRICON type 45A (the container type is stenciled on the container door as illustrated in WP 0021 00).
2. Using a forklift, place TRICON (1) in position approximately 10 feet from, and with the door side (2) facing, the modified end wall (3) of the sorting TEMPER (4).
3. Open doors (2) and unpack/empty TRICON.
4. Locate M-80/H-82 water heater (5) and remove the standard exhaust stack (6) as described in TM 10-4520-259-13&P. Leave the exhaust elbow on the M-80 water heater (5).



### **WARNING**

To prevent injuries, six persons are required to lift the M-80 Water Heater.

5. Place M-80 water heater (5) inside TRICON (1) so that the exhaust stack opening (7) lines up with the exhaust stack sleeve in the modified TRICON roof.



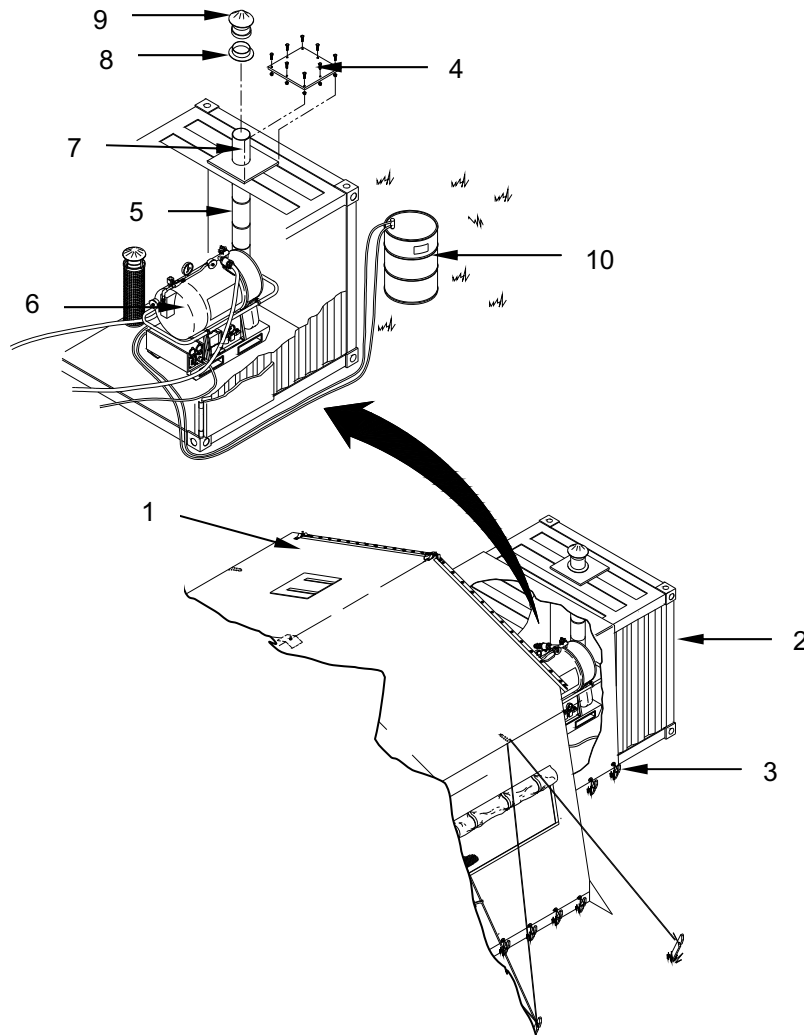
6. With the modified TEMPER end wall (3) folded back, and using a forklift, move the modified TRICON (1) in position against the end wall.
7. Extend modified end wall (3) over the TRICON, pull tight, and stake.

### **CAUTION**

Use caution when removing the exhaust cover gasket. It may adhere and needs to be removed carefully to prevent tears.

8. With one person on top and one person inside TRICON, remove the bolts securing the modified TRICON exhaust cover (4) and gasket. Remove the cover. Retain nuts, bolts and cover.





**WARNING**

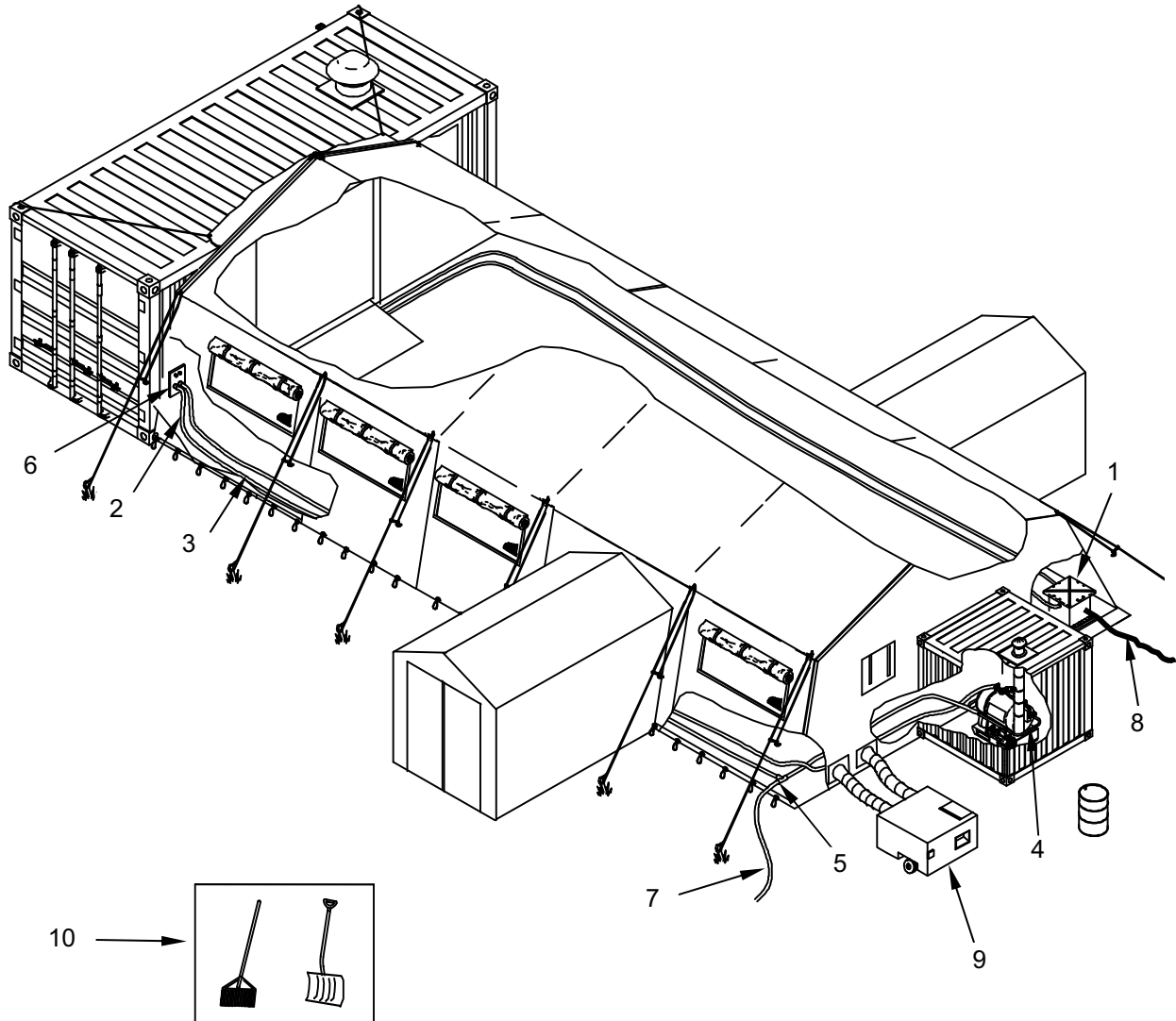
The exhaust stack sections have sharp edges. To prevent cuts, wear gloves when assembling the modified exhaust stack.

9. Assemble modified exhaust stack by placing the smooth end of each pipe sections onto corrugated end of next pipe section.
10. Lower the assembled exhaust stack (5) through the stack opening (7) on top of the TRICON (2) and install stack (5) onto M-80 (6). Place the flange (8) and rain cap (9) onto the exhaust stack (5).
11. A 55-gallon fuel drum (10) for M-80 operation shall be obtained from fuel storage subsystem personnel. Connect fuel hoses to M-80 as described in TM 10-4520-259-13&P.

**Laundry Subsystem in MSCW Configuration**

In the MSCW configuration, an 8-foot TEMPER window section is added to the laundry sorting tent, extending it to 40-feet. The SEP (1) is located inside the sorting TEMPER as shown. Hot (2) and cold (3) water supply hoses are routed from the M80 Water Heater (4) and the Tee assembly (5), respectively, to

the CBL water panel (6) inside the sorting TEMPER. The wastewater hose is also routed from the CBL water panel (6) to the SEP (1) inside the sorting TEMPER. Water is supplied by the water distribution subsystem and wastewater is evacuated by the waste water collection subsystem through heat traced hoses (7) and (8), respectively. A 120,000 BTU ASH heater (9) is installed in place of the ECU. Snow shovels and rakes (10) are furnished to remove snow.



### ASSEMBLY AND PREPARATION FOR USE OF LAUNDRY WASTEWATER COLLECTION

1. Position SEP (1) as shown, inside the sorting TEMPER and prepare for operation as described in TM 10-4630-206-12&P. Connect the wastewater hoses as follows:

#### **CAUTION**

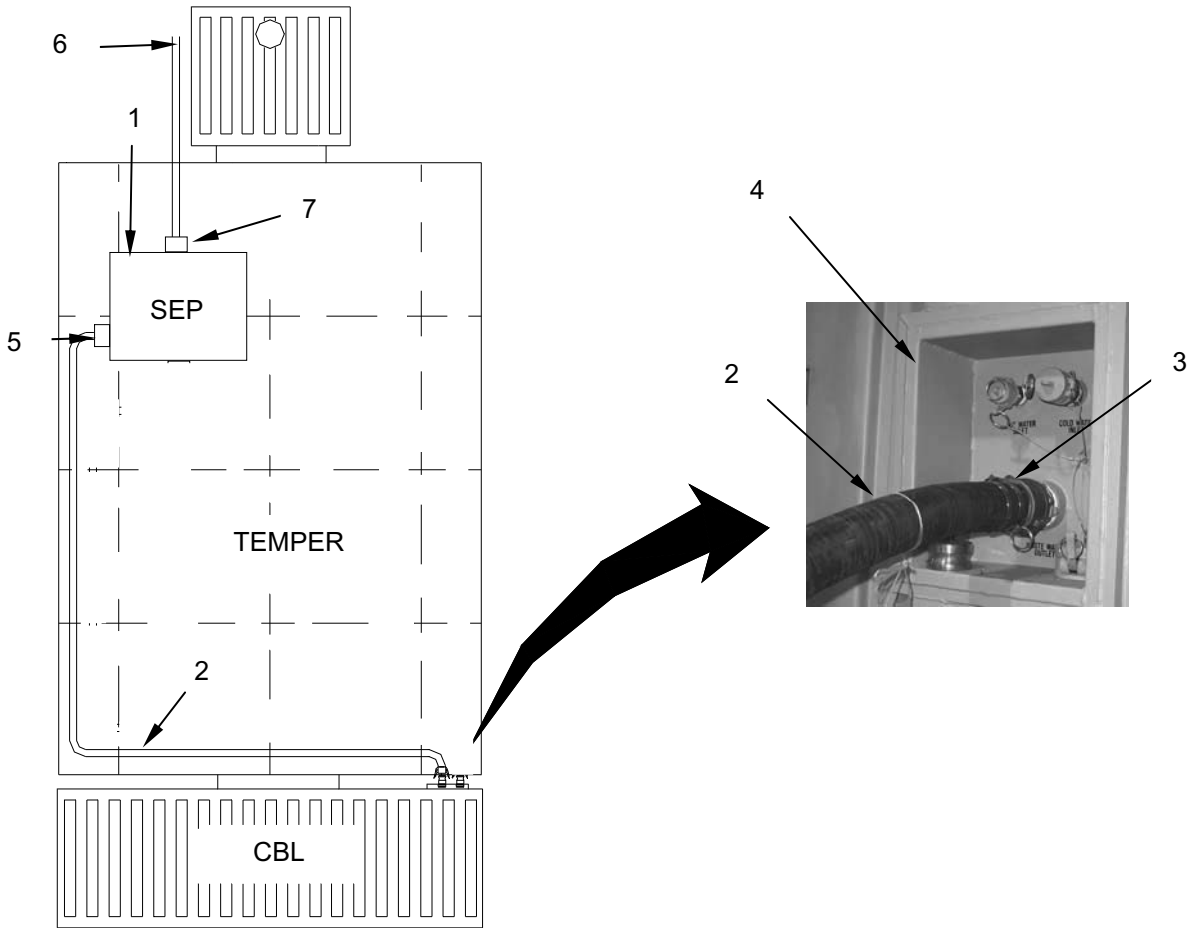
Whenever a wastewater hose must cross the path of an electrical cable, the wastewater hose must be positioned beneath electrical cable, and if possible be separated by a section of culvert. Damage to electrical equipment may result from improper positioning of hose and cables.

- Lay out wastewater hose (2) from wastewater connection (3) on CBL water panel (4) to SEP inlet (5) as shown and connect.

**NOTE**

When the 2½-inch heat traced wastewater hose is used, the standard hoses are not needed. Return the item to the TRICON for storage, or if it was in use, clean, dry and repack it prior to storage.

- Wastewater collection personnel will connect 75-foot long, 2½-inch diameter heat trace wastewater collection hose (6) to SEP outlet (7).



**ASSEMBLY AND PREPARATION FOR USE OF LAUNDRY WATER SUPPLY**

Components must be positioned as illustrated below.

**WARNING**

To prevent water contamination and resulting sickness or death, always route potable water hoses over wastewater hoses.

Do not connect any water hoses to components until water has been certified potable by medical personnel. An appliance contaminated with wastewater could result in sickness or death.

**CAUTION**

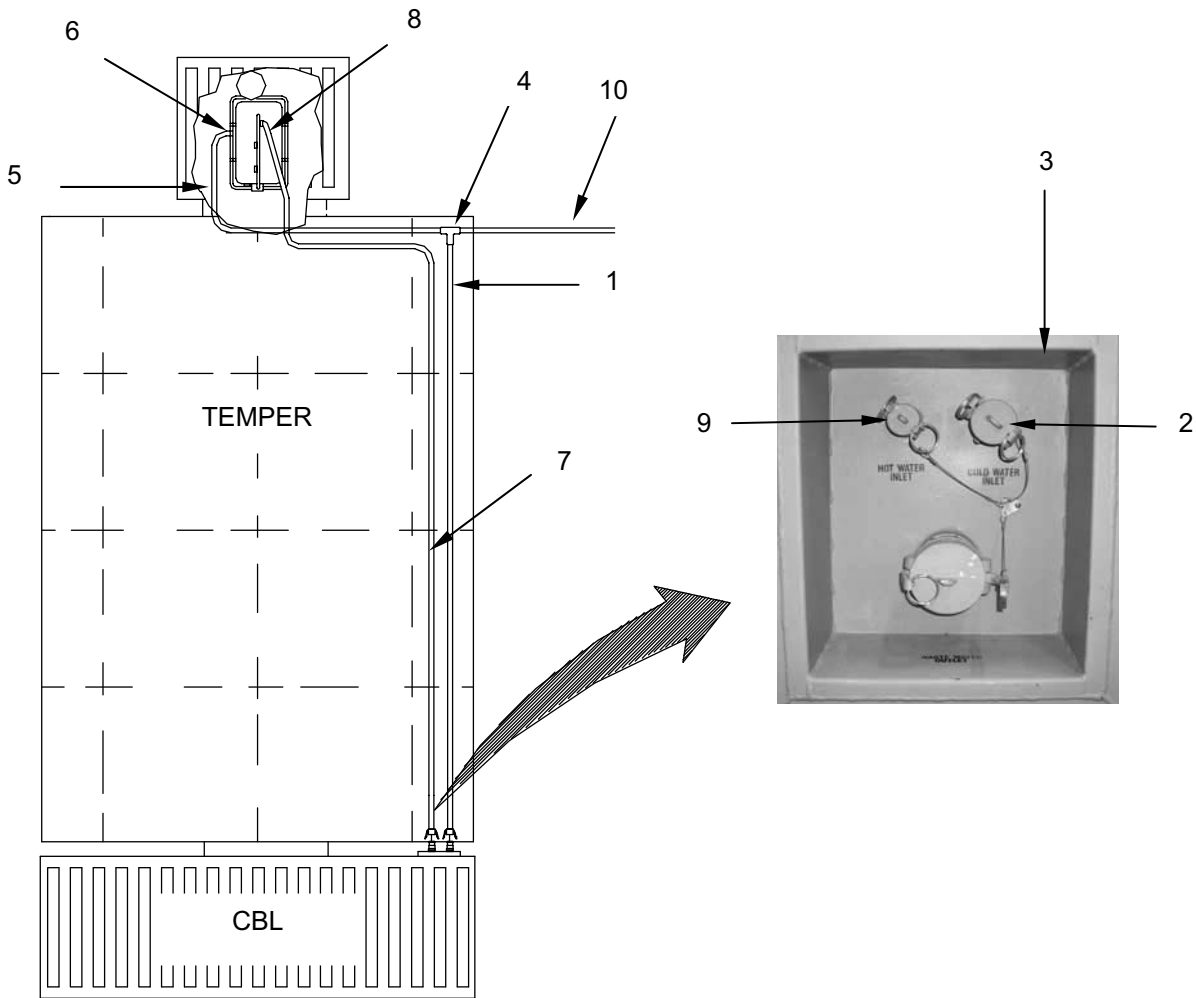
To prevent damage to electrical components, always route potable water hoses underneath electrical cables. Failure to observe this caution may result in damage to electrical cables and connectors.

1. Lay out 1½-inch x 75-foot cold water supply hose (1) from CBL cold water connection (2) on water panel (3) and connect Tee (4).
2. Lay out 1½-inch x 75-foot cold water supply hose (5) from Tee (4) to the M-80 inlet (6) and connect.
3. Lay out a 1-inch x 50-foot hot water supply hose (7) from M-80 outlet (8) to CBL hot water connection (9) on water panel (3) and connect.

**NOTE**

When the 1½-inch heat traced supply hoses are used, the standard hoses are not needed. Return these items to the TRICON for storage, or if they were in use, clean, dry and repack them prior to storage.

4. Potable water personnel will connect a 1½-inch heat traced supply hose (10) to the Tee (4).



**ASSEMBLY AND PREPARATION FOR USE OF LAUNDRY POWER GROUP**

**CAUTION**

In the MSCW configuration, it will be necessary to bury, or otherwise protect the power cables from vehicular traffic created by frequent ASH heater refueling as well as snow plowing operations.

**NOTE**

In the MSCW configuration, use surveyor's ribbon located in (TRICON 44A) to mark the power lines of the laundry subsystem so that their location can be determined under a snow cover and damage from snow plowing operations can be avoided.

Assemble and prepare the laundry power equipment as described in WP 0025 00.

**OPERATING INSTRUCTIONS FOR LAUNDRY SUBSYSTEM**

Operate the laundry subsystem by following the procedures in the component technical manuals listed below. Monitor fuel delivery schedule for ASH to ensure continued operation.

**OPERATING PROCEDURES FOR TEMPER**

Operate laundry TEMPER in accordance with TM 10-8340-224-13. Ensure the interior of the TEMPER are cleaned on a daily basis. Clear snow accumulations from the TEMPER roof, entrance, side skirts, and end walls using implements furnished in TRICON 44A. Also obtain and fill a sufficient number of sand bags. Place the bags onto the TEMPER flaps to secure them in place.

**OPERATING PROCEDURES FOR LAUNDRY POWER SUPPLY EQUIPMENT**

Operate power equipment in accordance with TM 9-6150-226-13.

**OPERATING PROCEDURES FOR CBL**

Operate the CBL in accordance with TM 10-3510-225-13&P.

**OPERATING PROCEDURES FOR ASH HEATERS**

Operate the ASH Heaters in accordance with TM 9-4520-258-14.

**LATRINE SUBSYSTEM**

Use the following procedures to assemble and prepare the latrine subsystem in the MSCW configuration. This WP contains only those procedures that are different from the standard configuration described in WP 0026 00. Whenever procedures are identical they are referenced to the standard configuration.

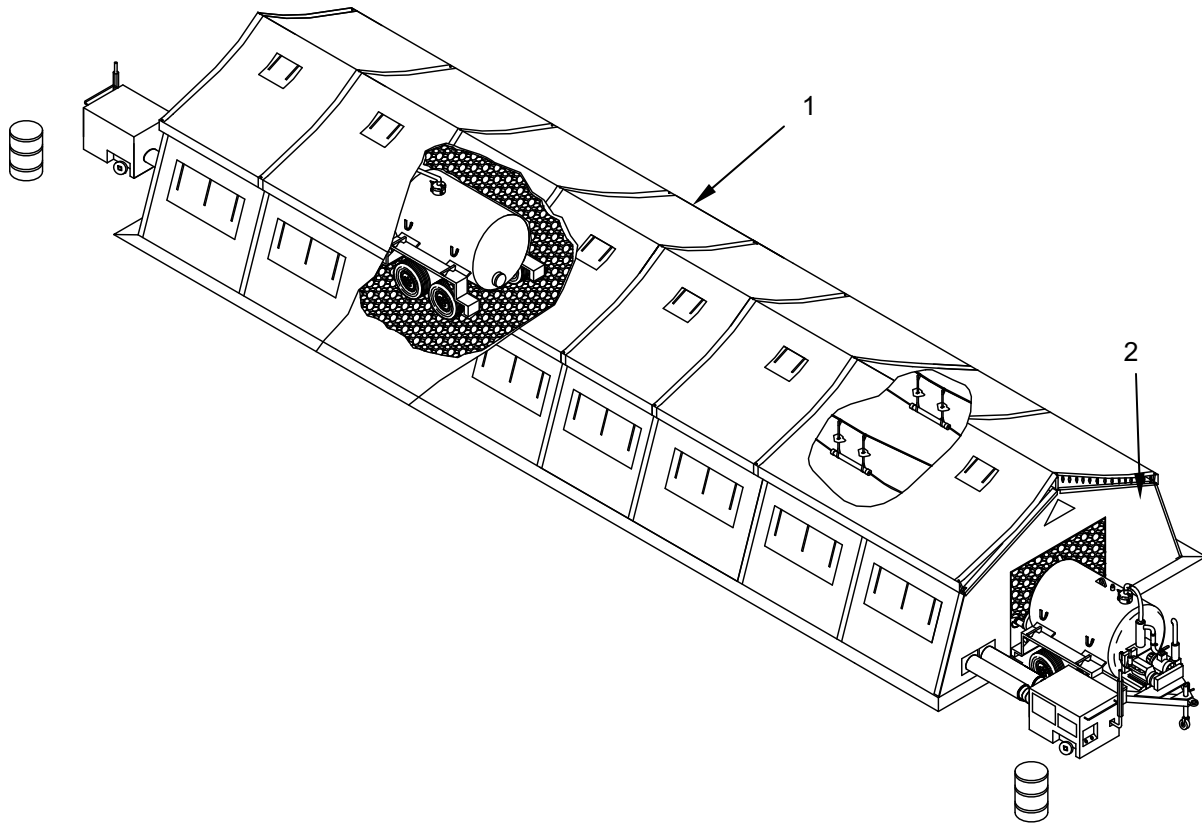
**ASSEMBLY AND PREPARATION FOR USE OF LATRINE TEMPER**

The Waste Water Evacuation Tank / Trailers (WWET/T) are stored in 20-foot x 32-foot TEMPER when not in use. The two TEMPER can be located back to back and connected to form a 20-foot x 64-foot structure, or in separate locations, depending on the module layout and location of blackwater disposal site. A recommended location for the WWET/T TEMPER would be adjacent to the wastewater tank TEMPER.

**NOTE**

When the 20-foot x 32-foot Type IV TEMPER are complexed to form a 20-foot x 64-foot structure, two standard end walls are not needed. Re-pack the end walls and store in TRICON (42A or 42B) in which they were shipped.

Use procedures found in TM 10-8340-224-13 to erect the TEMPER (1), including modified end walls (2) shipped in TRICON 45A. These modified end walls attach to the TEMPER in the same manner as the standard end walls but provide a larger opening for the WWET/Ts. Rubber mallets and 12-inch drift pins to aid in aligning the frame header with the assembled arch section are provided in TRICON 44A. Similarly, a rotary hammer drill is furnished to aid in the driving of the tent stakes.



### PREPARATION AND INSTALLATION OF ASH HEATER

Install two ASH into WWET/T TEMPER as described under billeting subsystem, above.

### ASSEMBLY AND PREPARATION FOR USE OF LATRINE POWER EQUIPMENT

#### **CAUTION**

In the MSCW configuration, it will be necessary to bury, or otherwise protect the power cables from vehicular traffic created by frequent ASH heater refueling as well as snow plowing operations. Use surveyor's ribbon (TRICON 44A) to mark the power lines so that their location can be determined under a snow cover and damage from snow plowing operations can be avoided.

Assemble and prepare the power equipment as described in WP 0026 00. One latrine site will share a power group with a shower site and the laundry. The second latrine site will share a power group with the second shower site and the administration subsystem. Using two 60A/100-foot cable(s), connect the WWET/T TEMPER electrical distribution boxes to the J3 connector (60 Amp) on the shower subsystem PDISE located adjacent to the wastewater tank TEMPER.

**ASSEMBLY AND PREPARATION FOR USE OF POTABLE WATER HOSES****NOTE**

When the 1½-inch heat traced supply hoses are used, the standard hoses shipped in ISO 3A (CLS) are not needed. Place these items in temporary storage while not in use.

Water distribution subsystem personnel will extend a 1½-inch heat traced hose to the latrine sites for connection to the CLS.

**OPERATING INSTRUCTIONS FOR LATRINE SUBSYSTEM**

Operate the latrine subsystem by following the procedures in the component technical manuals listed below. Monitor fuel delivery schedule for ASH to ensure continued operation. Obtain 1-inch x 1-inch x 6-foot wood stakes and surveyor's ribbon flag from TRICON 44A. Mark the location of utility lines and hoses to prevent damage during snow plowing operations.

**OPERATING PROCEDURES FOR (WWET/T) TEMPER**

Operate TEMPER housing the WWET/Trailers in accordance with TM 10-8340-224-13. Ensure the interior of the TEMPER are cleaned frequently. Clear snow accumulations from the TEMPER roof, entrance, side skirts, and end walls using implements furnished in TRICON 44A. Also obtain and fill a sufficient number of sand bags. Place the bags onto the TEMPER flaps to secure them in place.

**OPERATING PROCEDURES FOR LATRINE POWER EQUIPMENT**

Operate power group equipment in accordance with TM 9-6150-226-13.

**OPERATING PROCEDURES FOR CLS**

Operate the CLS in accordance with TM 10-4510-209-13&P.

**OPERATING PROCEDURES FOR ASH HEATERS**

Operate the ASH Heaters in accordance with TM 9-4520-258-14.

**SHOWER SUBSYSTEM**

Use the following procedures to assemble and prepare the shower subsystem in the MSCW configuration. This WP contains only those procedures that are different from the standard configuration described in WP 0027 00. Whenever procedures are identical, they are referenced to the standard configuration.

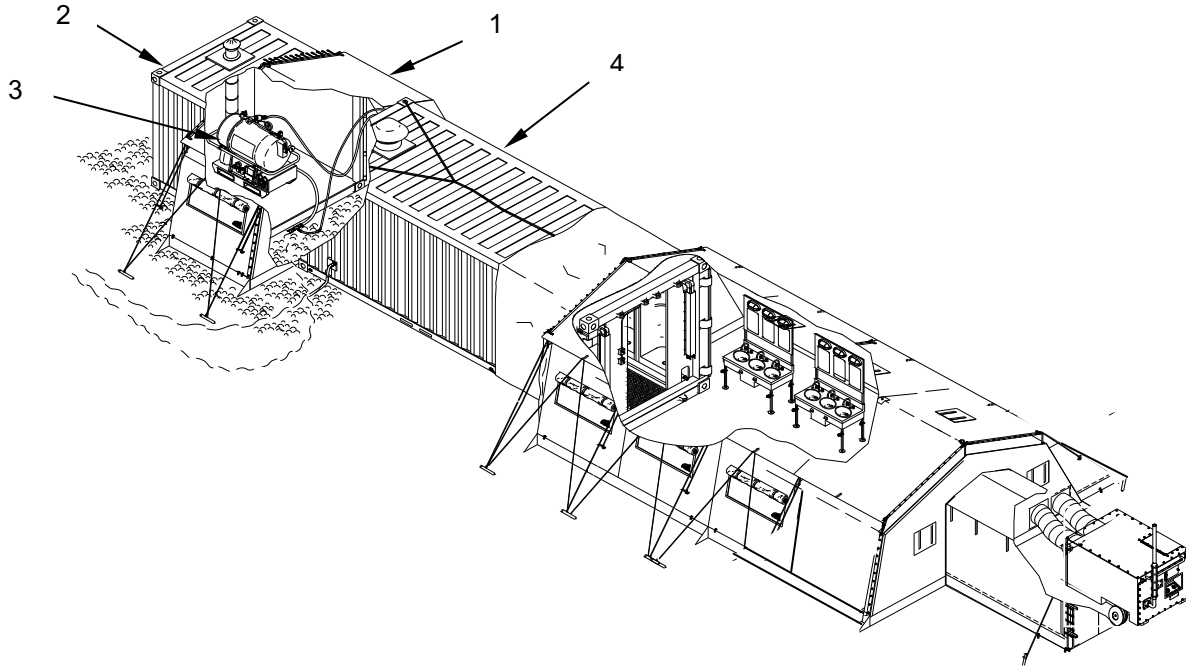
**ASSEMBLY AND PREPARATION FOR USE OF SHOWER TEMPER**

In addition to the 20-foot x 32-foot TEMPER housing the shave stands, the MSCW configuration requires an 8-foot TEMPER section (1) to be erected after the modified TRICON (2) containing the M80 water heater (3) has been positioned, and the CSS (4). Use procedures found in TM 10-8340-224-13 to erect the 8-foot TEMPER section. A rotary hammer drill is furnished in TRICON 44A to drive the tent stakes.



**NOTE**

The 8-foot TEMPER section is not directly connected to the modified TRICON or the CSS ISO. It is erected between the two containers to protect the water hoses and fittings from the elements.

**PREPARATION AND INSTALLATION OF ASH HEATER**

Install ASH into shower subsystem TEMPER housing the shave stands as described under billeting subsystem, above.

**ASSEMBLY AND PREPARATION FOR USE OF MODIFIED TRICON**

Assemble and prepare the modified TRICON (Type 43A) and M80 water heater as described under laundry subsystem, above. Move the TRICON into position with the doors approximately 8-foot, facing, and aligned with the rear of the CSS.

**ASSEMBLY AND PREPARATION FOR USE OF SHOWER WATER DISTRIBUTION****NOTE**

When the 1½-inch heat traced supply hoses are used, the standard hoses shipped as part of the CSS are not needed. Return these items to a TRICON for storage.

Water distribution personnel will extent 1½-inch heat traced hoses to the shower subsystem sites for connection to the shower, enclosed unit, system ISO container water supply T.

**ASSEMBLY AND PREPARATION FOR USE OF SHOWER WASTEWATER COLLECTION****NOTE**

When the 2½-inch heat traced supply hoses are used, the standard hoses shipped as part of the CSS are not needed. Do not repack these hoses.

Replace the standard waste water hose with heat traced hose furnished in TRICON 42B. Facilities section personnel will extend 2-inch heat traced hoses to the shower sites for connection.

**ASSEMBLY AND PREPARATION FOR USE OF SHOWER POWER EQUIPMENT****CAUTION**

In the MSCW configuration, it will be necessary to bury, or otherwise protect the power cables from vehicular traffic created by frequent ASH heater refueling as well as snow plowing operations.

**NOTE**

In the MSCW configuration, use surveyor's ribbon to mark the power lines so that their location can be determined under a snow cover and damage from snow plowing operations can be avoided.

Lay out the shower power equipment and cables as described in WP 0027 00.

**OPERATING INSTRUCTIONS FOR SHOWER SUBSYSTEM**

Operate the shower subsystem by following the procedures in the component technical manuals listed below. Monitor fuel delivery schedule for ASH to ensure continued operation. Obtain surveyor's ribbon flag from TRICON 44A and mark the location of utility lines and hoses to prevent damage during snow plowing operations.

**OPERATING PROCEDURES FOR SHOWER TEMPER**

Operate shower TEMPER in accordance with TM 10-8340-224-13. Ensure the interior of the TEMPER are cleaned frequently. Clear snow accumulations from the TEMPER roof, entrance, side skirts, and end walls using implements furnished in TRICON 44A. Also obtain and fill a sufficient number of sand bags. Place the bags onto the TEMPER flaps to secure them in place.

**OPERATING PROCEDURES FOR SHOWER POWER EQUIPMENT**

Operate power group equipment in accordance with TM 9-6150-226-13.

**OPERATING PROCEDURES FOR CSS**

Operate the shower, enclosed unit, system as described in TM 10-4510-208-13&P.

## OPERATING PROCEDURES FOR ASH HEATERS

Operate the ASH Heaters in accordance with TM 9-4520-258-14.

## WATER DISTRIBUTION SUBSYSTEM

Use the following procedures to assemble and prepare the water distribution subsystem in the MSCW configuration. This WP contains only those procedures that are different from the standard configuration described in WP 0028 00. Whenever procedures are identical they are referenced to the standard configuration.

## ASSEMBLY AND PREPARATION FOR USE OF WATER DISTRIBUTION TYPE XX TEMPER

When assembling the water distribution subsystem in the MSCW configuration, each of the type I, 20,000-Gallon Collapsible Fabric Tank(s) must be placed inside a Type XX, 64-foot TEMPER. In addition, these TEMPER-housed tanks may have to be located closer to the staked water supply points to limit exposure of the water supply hoses to the elements. Twelve, each, 1½-inch x 75-foot heat trace water hose assemblies are provided for this purpose located in TRICON 42C. To set up the TEMPER, proceed as follows:

1. Obtain one 20-foot x 64-foot, Type XX, TEMPER (1) from TRICON type 43A, Water Bladder Tent Kit.

### NOTE

To facilitate placement of a 20,000-Gallon Collapsible Fabric Tank, Type I, into the TEMPER, one of the end wall fabric assemblies should be left off the TEMPER until the tank has been placed inside.

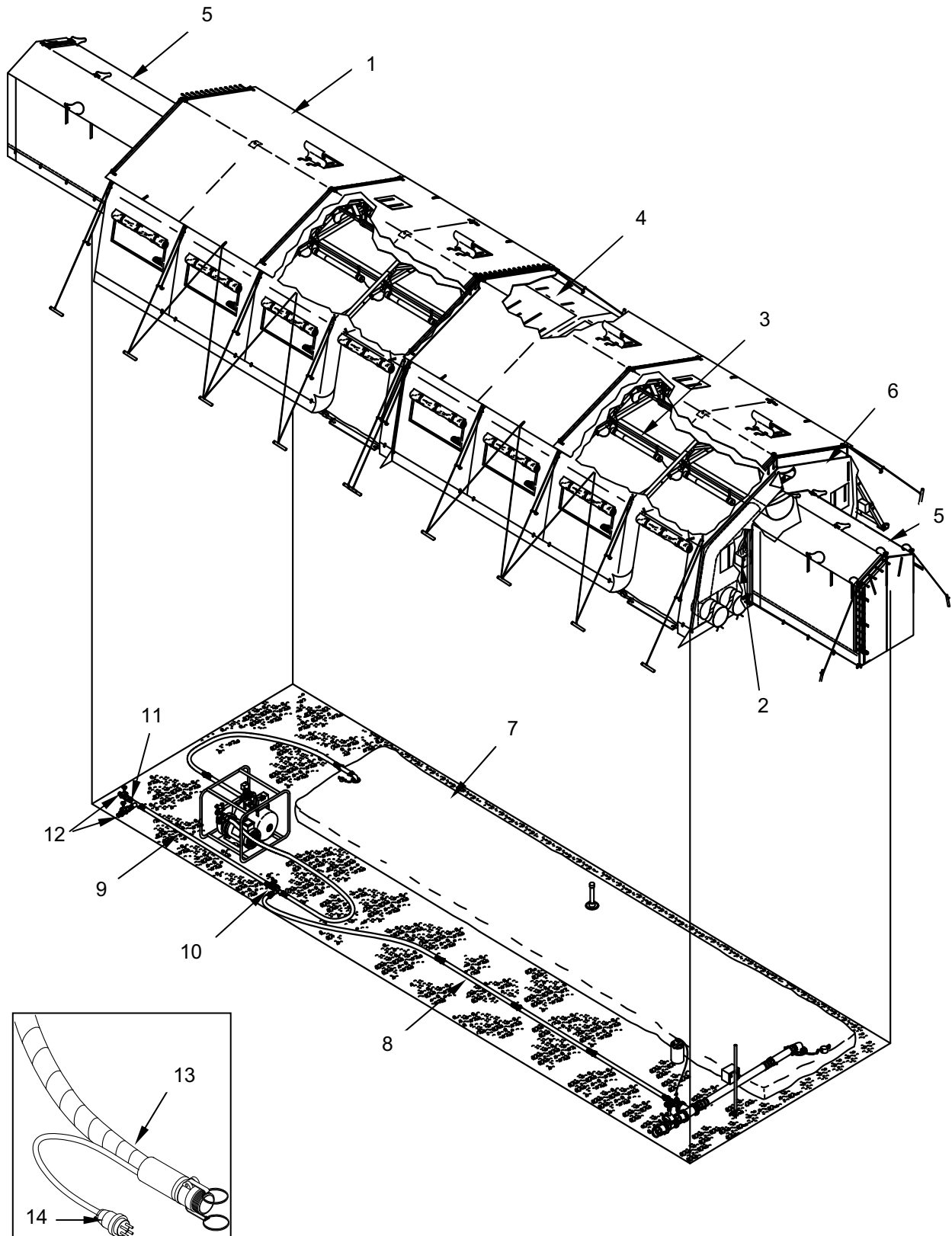
2. Erect one 20-foot x 64-foot, Type XX, TEMPER (1) at the designated potable water distribution site(s), as described in TM 10-8340-224-13, including power control (2), lights (3), liners (4), and vestibules (5). Leave one of the vestibules (5) and end wall (6) uninstalled.

### NOTE

When placing the tank into the TEMPER, it should be positioned slightly to one side to provide for sufficient space for the recirculation loop, water pump, hypochlorinator and other equipment and supplies needed. However, sufficient space to conduct PMCS on the tank must be kept free around the tank.

3. Place a type I, 20,000-Gallon Collapsible Fabric Tank (7) into the TEMPER, slightly to one side, but affording sufficient space to inspect the tank periodically all around. Assemble the tank as described in WP 0028 00.
4. Assemble the recirculation loop (8) as described in WP 0028 00, ensuring that all components of the loop are located inside the TEMPER.
5. Connect the distribution line(s) (9) to the recirculation Tee (10) as described in WP 0028 00, ensuring that the 1½-inch M x M x F Tee assembly (11), and the 1½-inch F x M gate valves (12) are located inside the TEMPER.
6. Install remaining TEMPER end wall (6) and vestibule (5).
7. Connect the 1½-inch x 75-foot heat trace water hose assemblies (13) to the 1½-inch F x M gate valve(s) (12) and extend opposite end of hose(s) to serviced facility.

8. Connect heat trace power cord(s) (14) of the water hoses to a power source (TEMPER power distribution box, or nearby PDISE). Use extension cords provided in TRICON 42A and 44A as needed.



**CONNECTING SUBSYSTEMS TO WATER DISTRIBUTION IN MSCW**

Personnel from subsystems serviced by each of the water distribution site(s) will be responsible for making connections between the 1½-inch x 75-foot heat trace water hose assemblies extended to the facilities and their respective water input points. Water distribution section personnel should be ready to offer technical assistance where unique circumstances or deviations from standard layouts covered in this manual exist.

**PREPARATION AND INSTALLATION OF ASH HEATERS IN TYPE XX TEMPER**

Refer to INSTALLATION OF ASH HEATERS IN BILLETING AND ADMINISTRATIVE TEMPER in this WP.

**OPERATING PROCEDURES FOR WATER DISTRIBUTION SUBSYSTEM**

Operate the water distribution subsystem as described in WP 0028 00.

**OPERATING PROCEDURES FOR ASH HEATERS**

Operate the ASH Heaters in accordance with TM 9-4520-258-14.

**ASSEMBLY AND PREPARATION FOR USE OF FUEL DISTRIBUTION SUBSYSTEM**

Standard diesel fuel (DF2) will gel in temperatures below 32 °F. To prevent damage to equipment and sustain fuel delivery operations, it is necessary to switch from standard to arctic diesel fuel before temperatures drop below 32 °F. Normally, no action is required by the user, other than to be aware of the requirement not to mix the two types of fuel. The switch to arctic fuel is a theater of operations support command decision and will occur automatically.

**CAUTION**

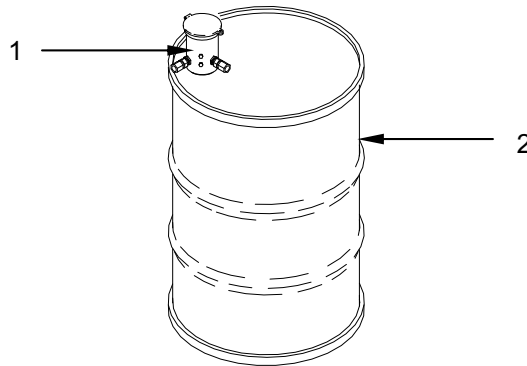
Do not mix standard diesel (DF2) with arctic diesel. The resultant mixture will coagulate and degrade performance of equipment in which it is used.

**ASSEMBLY AND PREPARATION FOR USE OF THE FUEL DISTRIBUTION FACILITY**

In the MSCW configuration, the diesel storage and distribution subsystem is assembled in the same way as in the standard configuration.

In the MSCW configuration, bulk fuel storage and distribution personnel are responsible for the set-up and periodic refueling of 55-gallon drums to be used as fuel storage tanks for the ASH heaters used to heat the TEMPER tents and the M-80 water heaters used with the food service, laundry, and shower subsystems.

Distribute 55-gallon drums (1) and install port drum fuel adapters (2) at ASH heater and M-80 water heater sites.



Develop refueling schedule that assures continuous operation of equipment, based on initial consumption estimates (refer to Table 10) and eventually, actual consumption.

**MARKING UTILITY LINES MSCW CONFIGURATION**

Keep shutoff valves, gate valves, and other control devices free from snow and marked using the 6-foot wood stakes and surveyor’s flag provided in MSCW kit 4A, so that they can be easily located. Keep fill and discharge lines clearly marked using the 6-foot wood stakes and surveyor’s flag provided in MSCW kit 4A to prevent damage from snow clearing operations.

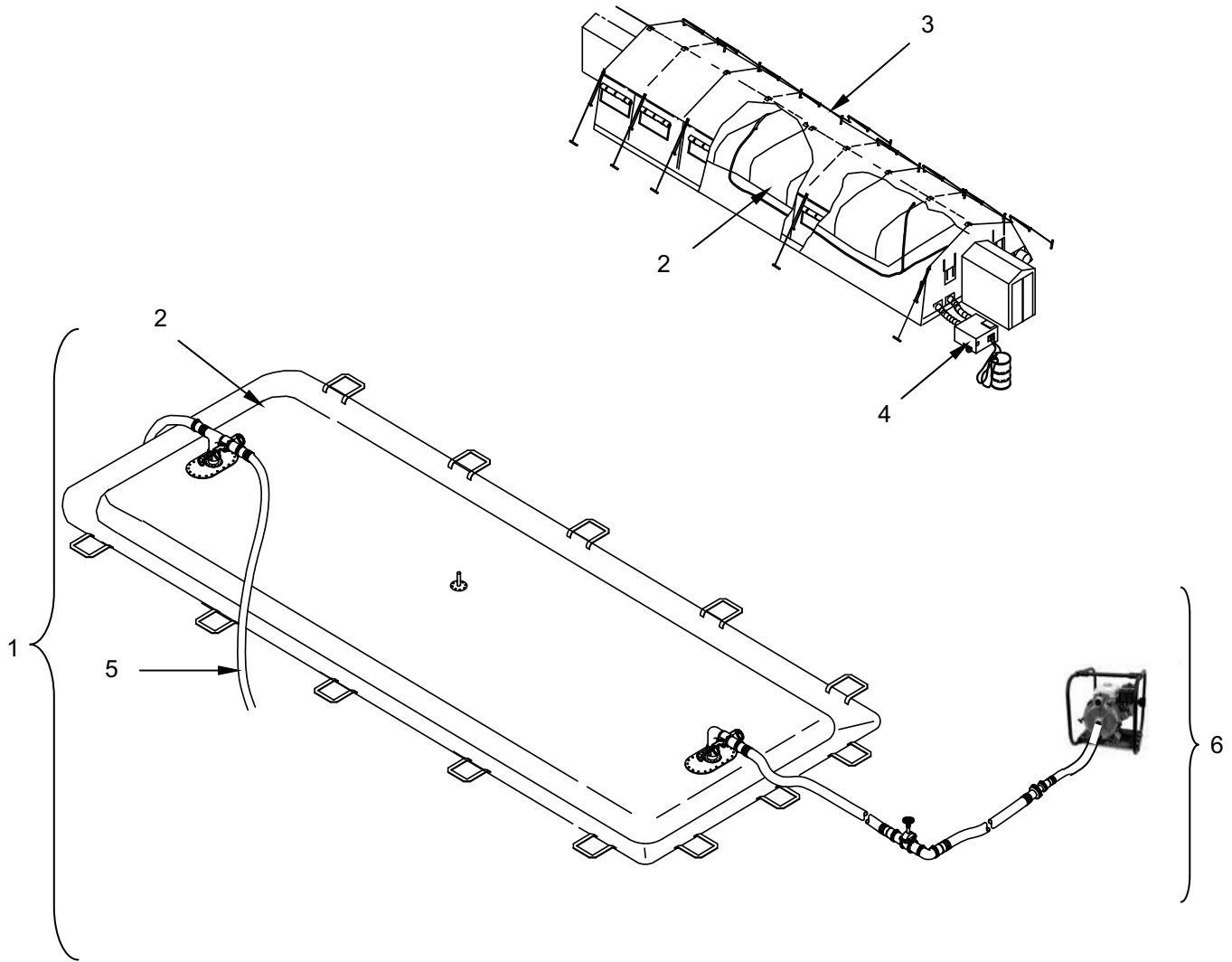
**Table 10. Estimated Diesel Requirements.**

Equipment/Times	Requirements (Gallon per day)
ASH Heaters (80 units/0.5Gal/hr/24-hours)	960 GPD
60kW TQG (8 units/5.1Gal/hr/24-hours)	979 GPD
M80 Water Heater (4 units/2.5Gal/hr/20-hours)	150 GPD
Other	428 GPD
<b>TOTAL</b>	<b>2,517 GPD</b>

**ASSEMBLY AND PREPARATION FOR USE OF WASTEWATER COLLECTION SUBSYSTEM**

**Wastewater Collection (MSCW)**

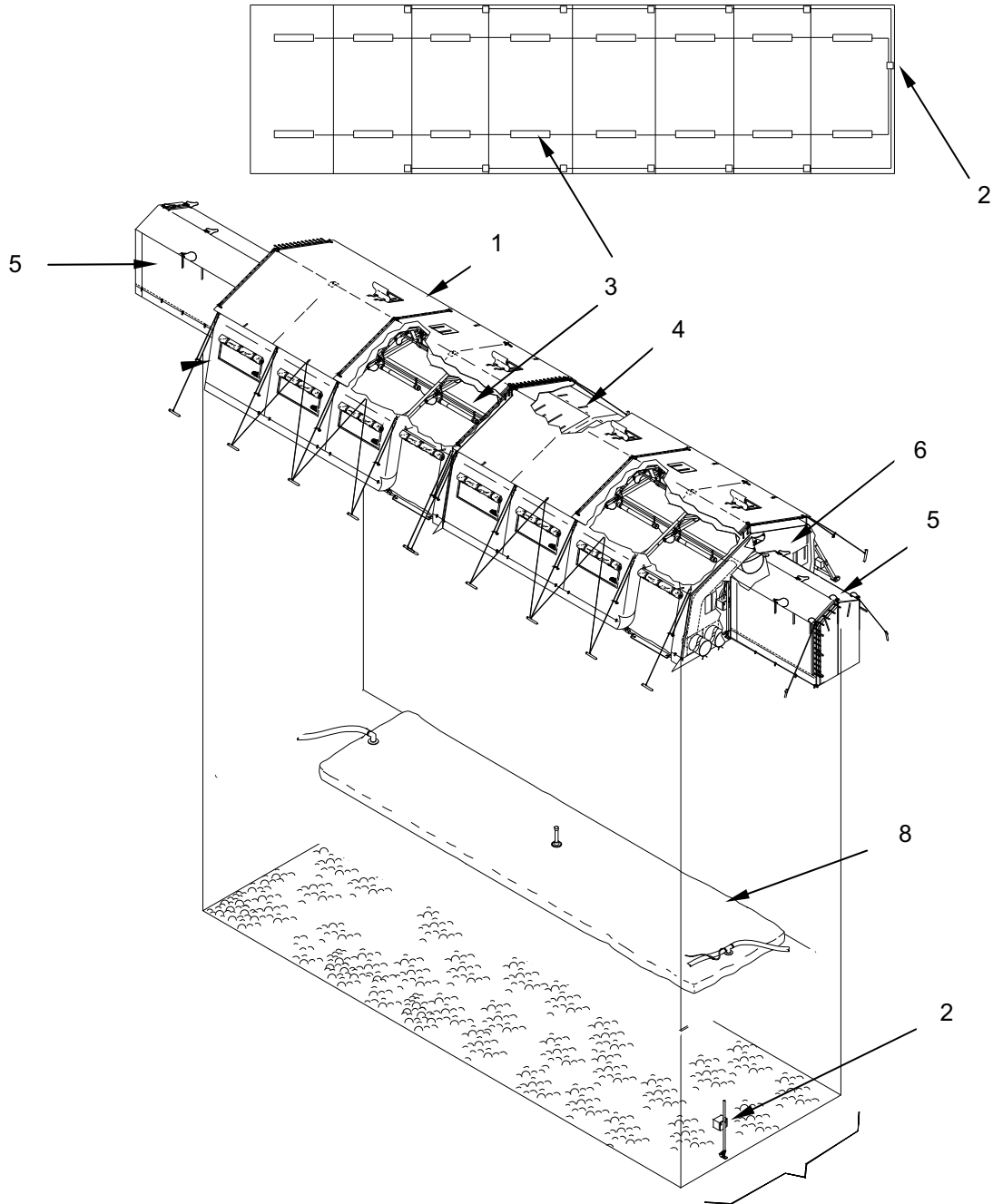
The MSCW wastewater collection subsystem consists of two individual collection sites. One site (1) collects the wastewater generated by the food service, and one of the two shower subsystems. The second site collects the wastewater generated by the laundry and the second shower subsystem. Main components of each wastewater collection site are the 20,000-Gallon Collapsible Fabric Tank (2), a 20-foot x 64-foot TEMPER (3), and two ASH heaters (4). Two heat traced 2½-inch x 75-foot hoses (5) evacuate the wastewater from the serviced subsystems directly into the 20,000-Gallon Collapsible Fabric Tank (2). The wastewater tank draining kit (6) used in the standard configuration is also used in the MSCW configuration. However, depending on the ambient temperature, it must be set up and removed each time the tank is drained to prevent freezing.



**ASSEMBLY AND PREPARATION FOR USE OF WASTEWATER COLLECTION TANK, TEMPER, AND HOSE KITS MSCW CONFIGURATION**

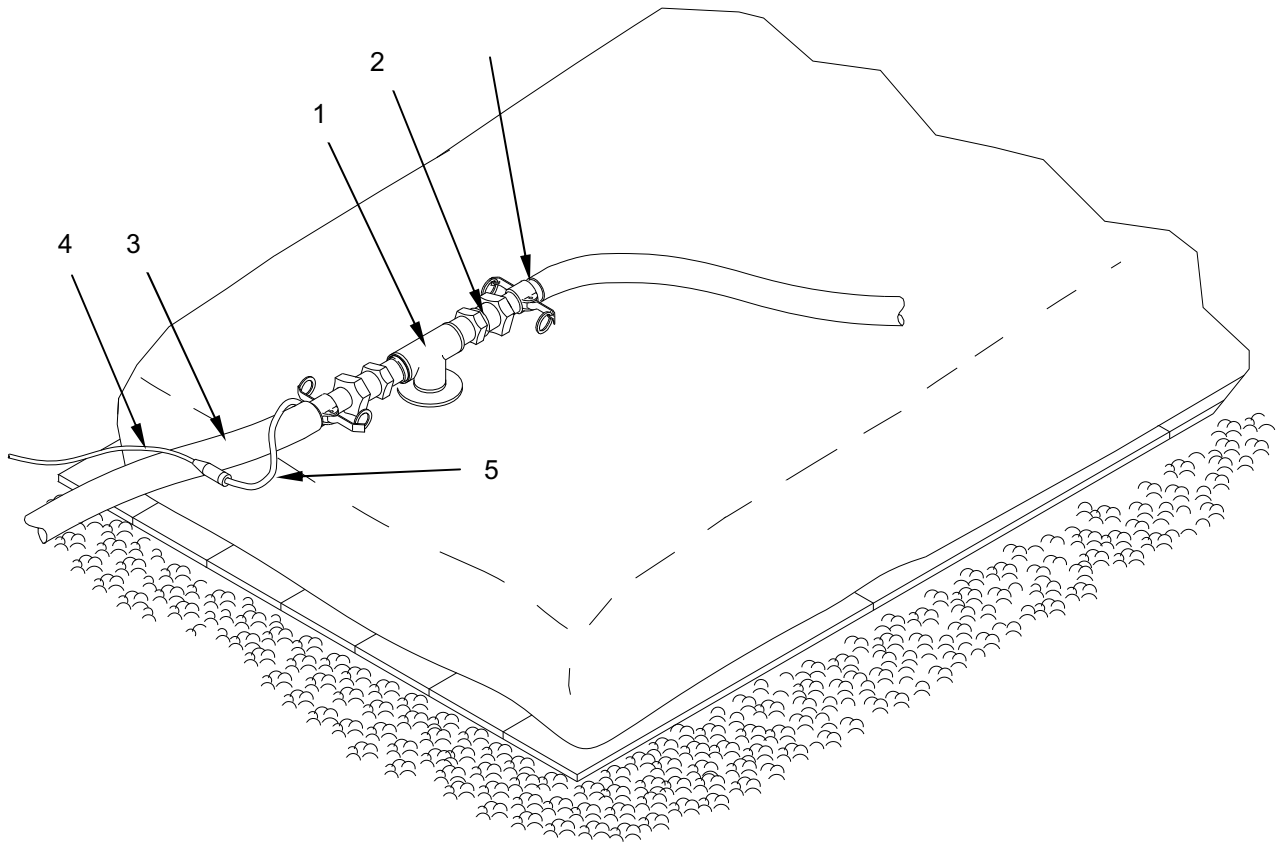
Erect one 64-foot TEMPER (1) at the wastewater collection sites as described in TM 10-8340-224-13, including power control (2), lights (3), liners (4), and vestibules (5). Leave one of the end walls (6) and vestibule (5) uninstalled. Use rotary hammer furnished in Type 44A container to emplace the tent stakes in frozen ground.

Place the 20,000-Gallon Collapsible Fabric Tanks (type II) (8) so that the inflow is at the end of the TEMPER that is closest to the serviced subsystems and assemble it as directed by your supervisor. Install the remaining TEMPER end wall (6).



1. Install 4-inch filler Tee (1) and reducers (2) (components of tank kit) in accordance with TM 5-5430-219-13 furnished with the kit.
2. Install 2½-inch, 75-foot heat traced wastewater collection hoses (3) onto filler T reducers (2). Using 25-foot 20A military to commercial extension cords (4) furnished in TRICON 44A, connect the heat trace power cord (5) on the hoses to the nearest PDISE.





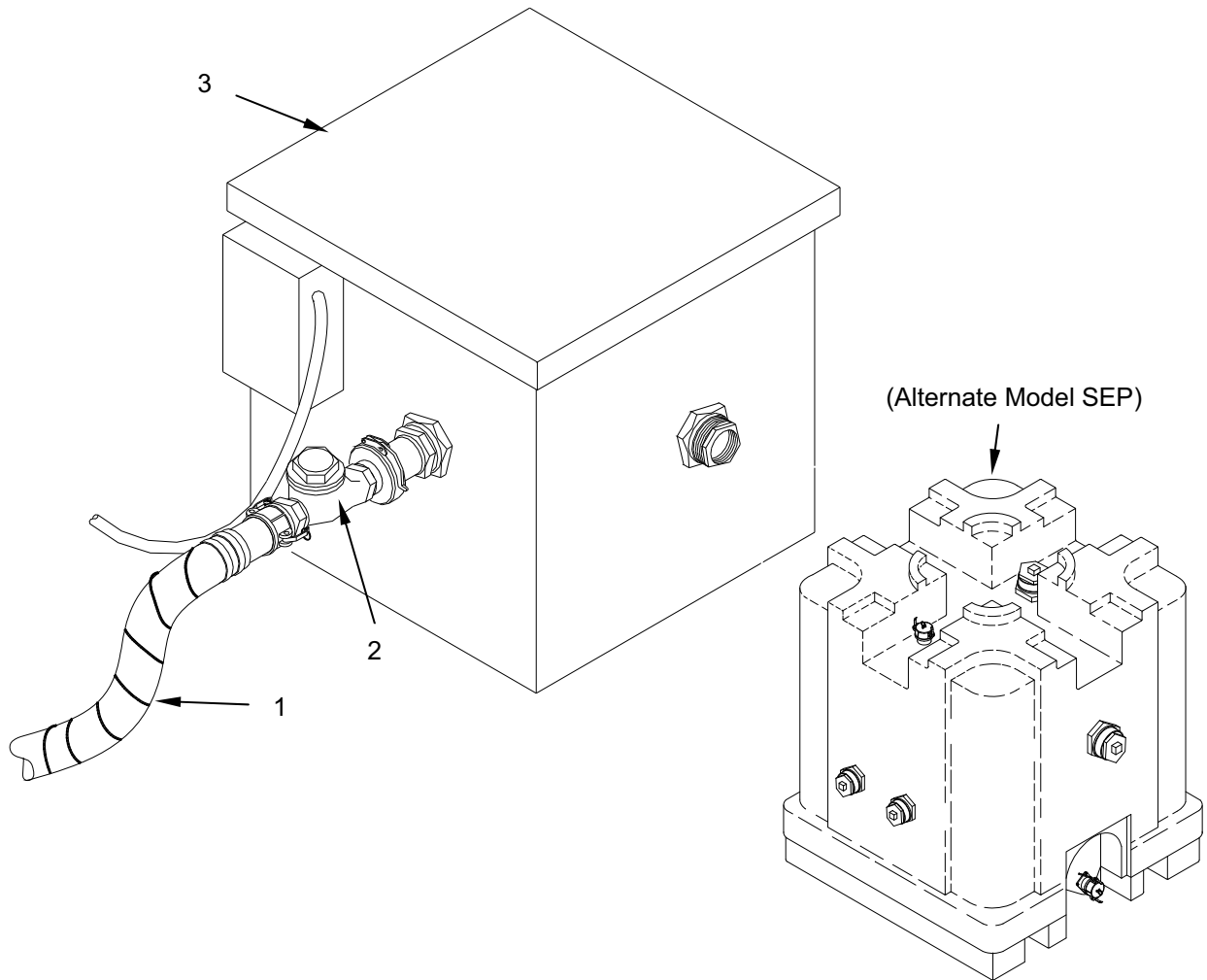
### CONNECTING 2.5-INCH HEAT TRACED WASTEWATER COLLECTION HOSES

1. Extend 2½-inch, 75-foot heat traced wastewater hoses (1) previously connected to wastewater collection tank, and install 2½-inch check valve (2). Connect check valve to each serviced facility's wastewater outlet hose, or SEP (3), as applicable.
2. Ensure valves, Tees, and gate valves used to connect the various facilities are kept inside the serviced subsystem TEMPER to prevent freezing.

### NOTE

SEP are shipped with subsystems with which they are used. If any SEP is not yet deployed in a subsystem to be connected, make all other connections, then return later to make final connection. Some subsystems may not use the SEP in the MSCW configuration.

SEP tank body may have similar ports on all four sides. Only discharge port has hose connected to pump. If in doubt, open cover to identify discharge port.



## PREPARATION AND INSTALLATION OF ASH HEATERS IN MSCW CONFIGURATION

### NOTE

When the ASH Heaters are being installed into the TEMPER, remove and service the ECUs. Pack the ECUs as described in WP 0043 00.

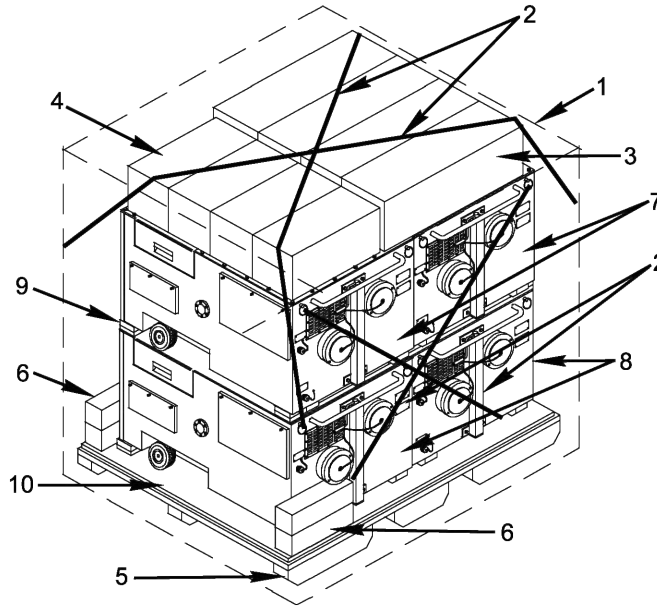
1. Locate the ASH heaters in Type 41A container (1).
2. Remove pallet (2) from TRICON with forklift.
3. Remove upper (3) and lower (4) tie-down straps.
4. Remove four large (5) and four small (6) heater duct boxes from top of upper two heaters (7).
5. Remove four boxes containing drum fill adapters (8) from pallet (2).
6. Use forklift to lift upper heaters (7) off lower heaters (9).
7. Remove reusable skid boards (10) from top of lower heaters (9).
8. Use forklift to lift lower heaters (9) off skid (11).

9. Place skid boards (10) onto empty skid (11) and return pallet into container (1) for later use.

### NOTE

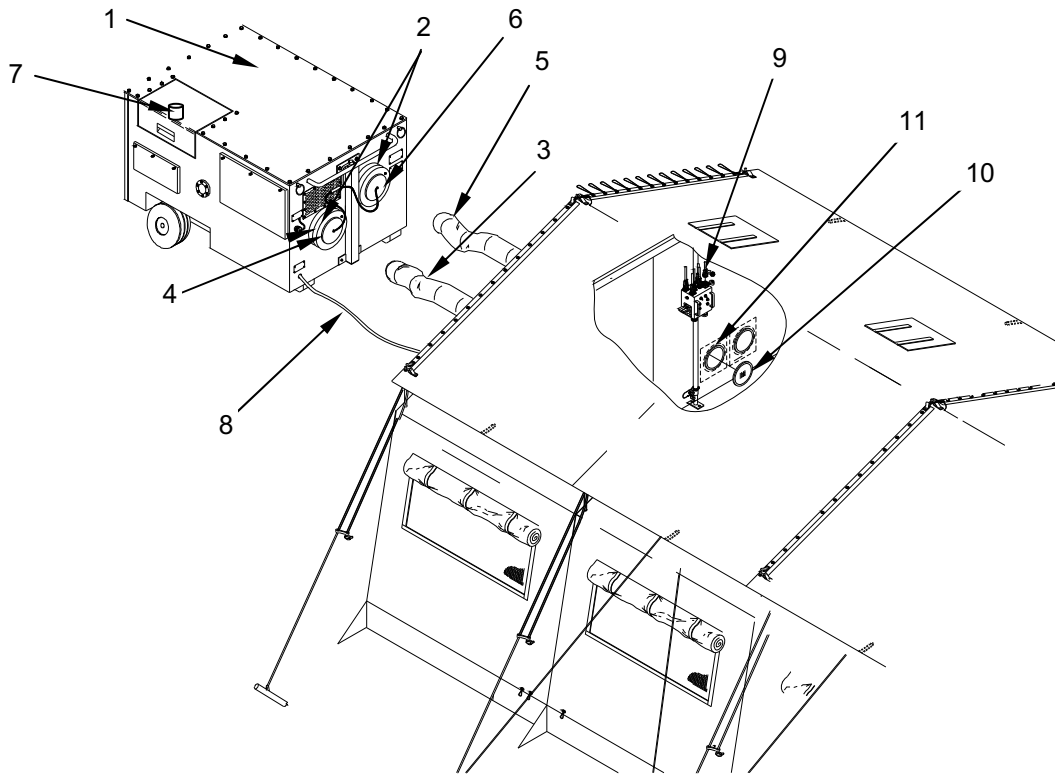
Using lumber or dunnage between heater and ground will help prevent corrosion during long deployments.

10. Move ASH (1) (referenced in TM 9-4520-258-14) into position at end wall of TEMPER, with duct connections, (2) facing TEMPER.
11. Assemble and prepare the ASH heater for operation as described in TM 9-4520-258-14.
12. Attach TEMPER return duct (3) (that does not have plenum attached) to heater return air inlet (4).
13. Attach TEMPER supply duct (5) (which has plenum attached) to heater supply air outlet (6).
14. Ensure heater mode selector switch (7) is set to OFF position.
15. Route heater power cable assembly (8) through TEMPER cable sock or between end section and floor, and connect to TEMPER power control (9). Connect dust caps together.



16. Move ASH (1) (refer to TM 9-4520-258-14) into position at end wall of TEMPER, with duct connections, (2) facing TEMPER.
17. Assemble and prepare the ASH heater for operation as described in TM 9-4520-258-14.
18. Attach TEMPER return duct (3) (that does not have plenum attached) to heater return air inlet (4).
19. Attach TEMPER supply duct (5) (which has plenum attached) to heater supply air outlet (6).
20. Ensure heater mode selector switch (7) is set to OFF position.
21. Route heater power cable assembly (8) through TEMPER cable sock or between end section and floor, and connect to TEMPER power control (9). Connect dust caps together.

22. Install debris screen (10) on return duct opening (11).



### MARKING UTILITY LINES AND MAINTAINING TEMPER MSCW CONFIGURATION

Obtain 1-inch x 1-inch x 6-foot wood stakes and surveyor's ribbon flag from TRICON 44A. Mark the location of utility lines and hoses to prevent damage during snow plowing operations. Also obtain and fill a sufficient number of sand bags. Place the bags onto the TEMPER flaps to secure them in place. Also obtain snow shovels and rakes. Remove accumulated snow from the TEMPER roof as necessary. Keep entrances around the vestibules free of snow. Periodically remove snow from the sides of the TEMPER to relieve weight stress.

### OPERATING PROCEDURES FOR WASTEWATER COLLECTION SUBSYSTEM MSCW CONFIGURATION

Operate the wastewater collection subsystem in the same manner as in the FP Configuration described earlier in this WP. In addition, conduct periodic checks to ensure heat traces are properly connected and power is available at the PDISE.

Use procedures described earlier in this WP to drain the tanks, keeping in mind that in the MSCW configuration only one tank is involved at each location. If the wastewater collection tanks are to be drained into a municipal sewage or other disposal system, the standard wastewater tank draining kit, including 125 GPM pumps must be assembled, used and disassembled as described in TM 10-4320-318-14, each time the tank is to be drained. If the tanks are to be drained using a pump/ tank apparatus, maintain the area clear of snow to allow access. Components of the tank draining kit not in use must be kept inside the TEMPER.

## OPERATING PROCEDURES FOR ASH HEATERS

Operate 120,000 BTU ASH heaters in accordance with TM 9-4520-258-14.

## OPERATING PROCEDURES FOR TEMPERS

Operate TEMPER in accordance with TM 10-8340-224-13.

## OPERATING PROCEDURES FOR PDISE M100

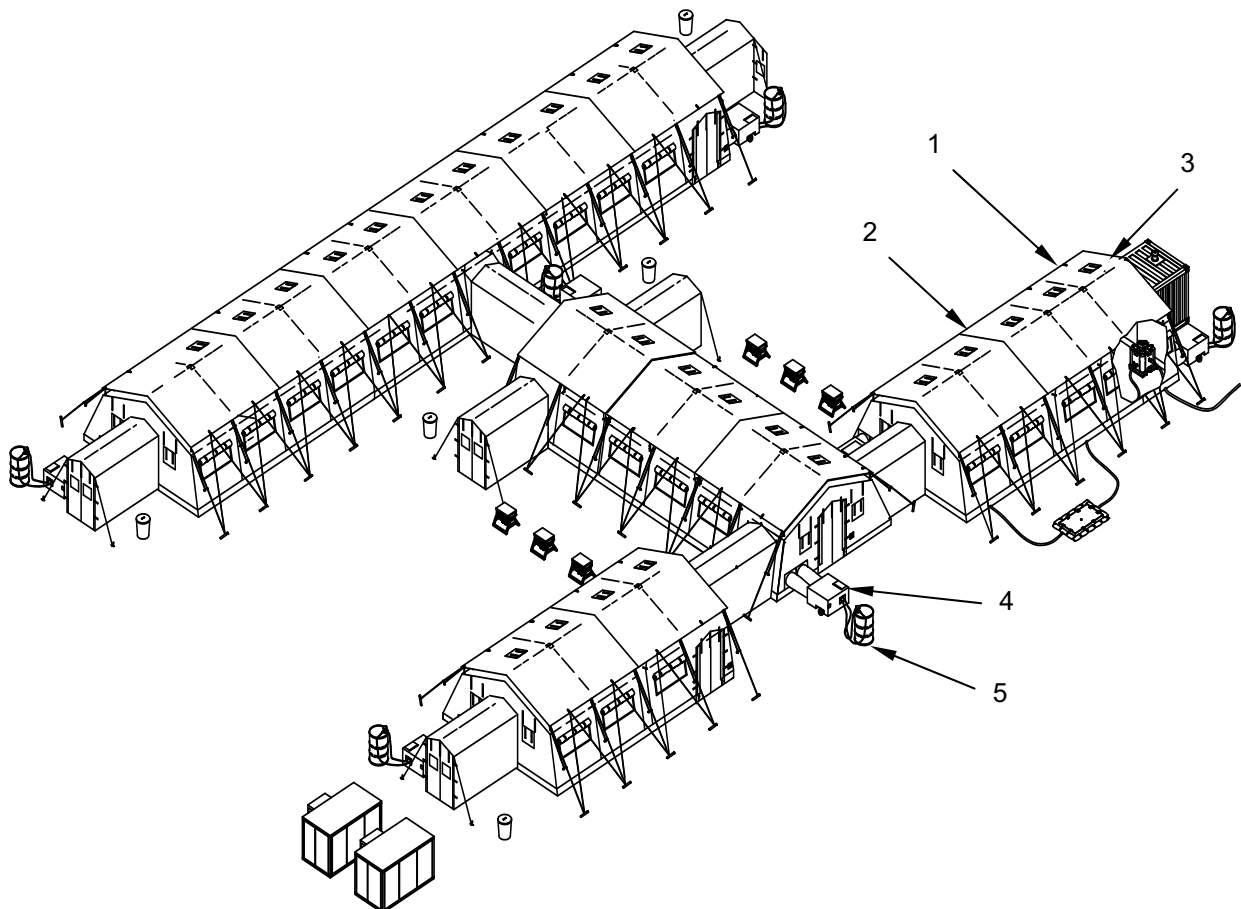
Operate the PDISE in accordance with TM 9-6150-226-13.

## ASSEMBLY AND PREPARATION FOR USE OF FOOD SERVICE SUBSYSTEM

In the MSCW configuration, the food service subsystem is set up as in the standard configuration, however, an 8-foot TEMPER section (1) is added to the sanitation center TEMPER (2), onto which a TRICON end wall (3) is installed. Refer to WP 0031 00 to set up the TEMPER interiors. ASH heaters (4) and 50-gallon fuel drums (5) must be installed instead of the ECU as described under the billeting and administrative subsystems in this WP.

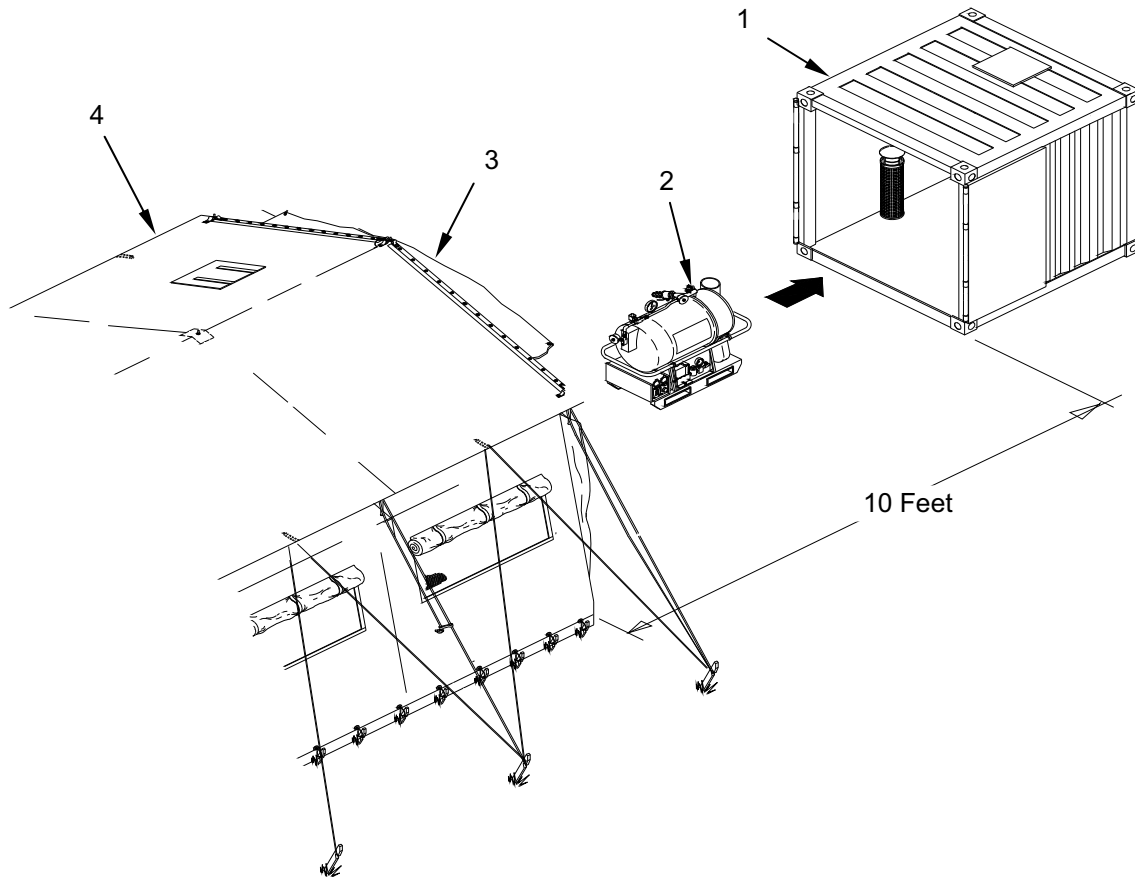
### NOTE

When the MSCW is applied to an existing, deployed module, remove the ECUs from the TEMPER as described in WP 0047 00. Perform PMCS on the ECU as described in WP 0059 00, before packing them into TRICON 10E as described in WP 0047 00.



**ASSEMBLY AND PREPARATION FOR USE OF MODIFIED TRICON**

Use procedures described under the laundry subsystem in this WP to assemble and prepare the modified TRICON 45A (1) for use. Install the M-80 water heater (2) as described. Connect the TRICON (1) to the TRICON end wall (3) attached to the sanitation center TEMPER (4).



**ASSEMBLY AND PREPARATION FOR USE OF FOOD SERVICE WATER SUPPLY**

The food service water distribution equipment is laid out as in the standard configuration described in WP 0031 00, but the hoses must be positioned inside the TEMPER. The manifold is positioned in the FSC.



**WARNING**

To prevent water contamination and resulting sickness or death, always route potable water hoses over wastewater hoses.

Do not connect any water hoses to components until water has been certified potable by medical personnel. An appliance contaminated with wastewater could result in sickness or death.

Water will be distributed to the food service subsystem by the water distribution subsystem through a heat traced hose to the water supply connection point which will be located just inside the sanitation center TEMPER.

## ASSEMBLY AND PREPARATION FOR USE OF FOOD SERVICE WASTE WATER COLLECTION

The food service wastewater collection equipment is laid out as in the standard configuration described in WP 0031 00, but the hoses must be positioned inside the TEMPER. The SEP is placed inside the FSC.



### WARNING

To prevent water contamination and resulting sickness or death, always route potable water hoses over wastewater hoses.

1. Position SEP (1) as shown, inside the FSC TEMPER and prepare for operation as described in TM 10-4630-206-12&P. Connect the wastewater hoses as follows:

### CAUTION

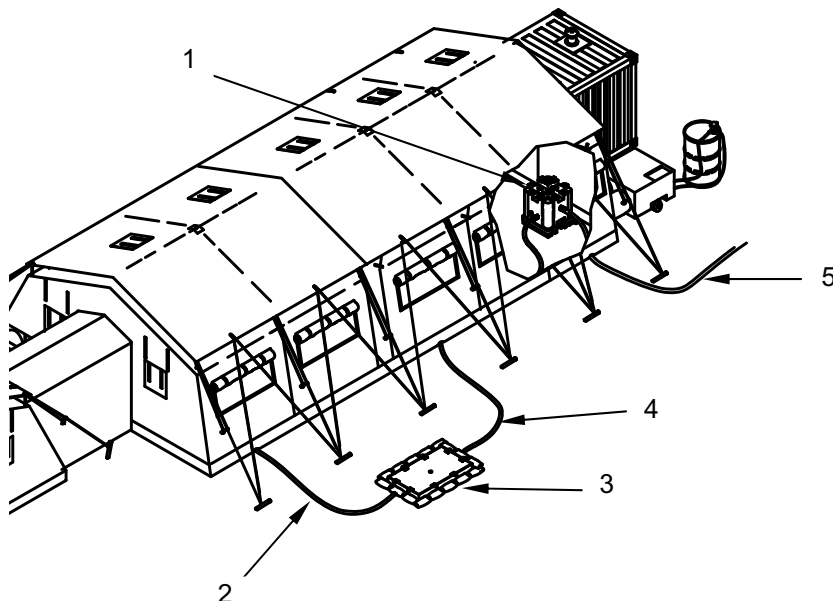
Whenever a wastewater hose must cross the path of an electrical cable, the wastewater hose must be positioned beneath electrical cable, and if possible be separated by a section of culvert. Damage to electrical equipment may result from improper positioning of hose and cables.

2. Lay out wastewater hoses from sinks to the cross inside the TEMPER. Lay out the wastewater hose (2) from the cross to the grease trap (3) as described in WP 0031 00.

### NOTE

The grease trap remains located outside. To prevent freezing of the contents, place a sand bag barrier around and over it.

3. Lay out wastewater evacuation hose (4) from the grease trap to the SEP, located inside the FSC, as described in WP 0031 00.
4. Wastewater collection personnel will connect 75-foot long, 2½-inch diameter heat trace wastewater collection hose (5) to SEP (1) outlet.



**ASSEMBLY AND PREPARATION FOR USE OF FOOD SERVICE POWER SUPPLY EQUIPMENT****CAUTION**

In the MSCW configuration, it will be necessary to bury, or otherwise protect the power cables from vehicular traffic created by frequent ASH heater refueling as well as snow removal operations.

Use procedures in WP 0031 00 to assemble the food service power supply equipment. Connect the ASH power cables to the J2 Power-Out connector on the TEMPER power distribution boxes, instead of the ECU cable shown in WP 0031 00.

**MWR SUBSYSTEM**

Use the following procedures to assemble and prepare the MWR subsystem in the MSCW configuration. This WP contains only those procedures that are different from the standard configuration described in WP 0034 00. Whenever procedures are identical they are referenced to the standard configuration.

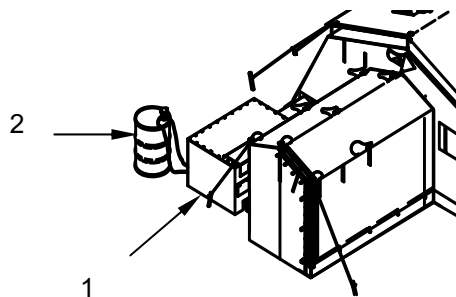
**ASSEMBLY AND PREPARATION FOR USE OF MWR TEMPER**

1. In the MSCW configuration the MWR subsystem is set up identically to the standard configuration. (Refer to the Staking and Staging Diagrams, WP 0022 00). Refer to WP 0034 00 to set up the Type XVII, 20-foot x 64-foot TEMPER. ASH heaters (1) and 50-gallon fuel drums (2) must be installed instead of the ECU as described under Billeting and Administrative subsystems, above.

**NOTE**

When the MSCW is applied to an existing, deployed module, remove the ECUs from the TEMPER as described in WP 0050 00. Perform PMCS on the ECU as described in WP 0059 00, before packing them into TRICON 1B (Billeting) or TRICON 12C and 12E Administration) as described in WP 0040 00 and WP 0049 00, respectively.

2. Use procedures found in TM 10-8340-224-13 to erect the Type XVII, 20-foot x 64-foot TEMPER. Rubber mallets and 12-inch drift pins to aid in aligning the frame header with the assembled arch section are provided in TRICON 44A. Similarly, a rotary hammer drill is furnished to aid in driving the tent stakes.





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**ASSEMBLY AND PREPARATION FOR USE OF MWR POWER SUPPLY****CAUTION**

In the MSCW configuration, it will be necessary to bury, or otherwise protect the power cables from vehicular traffic created by frequent ASH heater refueling as well as snow removal operations.

Use procedures in WP 0034 00 to assemble the MWR power supply equipment. Connect the ASH power cable to a 20A Power-Out connector on the TEMPER power distribution box instead of the ECU cable shown in WP 0034 00.

**MWR SUBSYSTEM EQUIPMENT LAYOUT**

Set up the MWR equipment as described in WP 0034 00. Place a snow shovel and snow rake (shipped in TRICON 44A) together with other cleaning equipment near each entrance of every TEMPER.

**OPERATING INSTRUCTIONS FOR MWR SUBSYSTEM**

Operate the MWR subsystem by following the procedures in the component technical manuals listed below. Ensure the interior of the TEMPER are cleaned on a daily basis. Clear snow accumulations from the TEMPER roof, entrance, side skirts, and end walls using snow rakes and snow shovels furnished in TRICON 44A. Establish and monitor fuel delivery schedule for ASH to ensure continued operation.

**OPERATING PROCEDURES FOR TEMPER**

Operate billeting TEMPER in accordance with TM 10-8340-224-13. Obtain surveyor's ribbon flag from TRICON 44A. Mark the location of utility lines and hoses to prevent damage during snow removal operations. Also obtain and fill a sufficient number of sand bags. Place the bags onto the TEMPER flaps to secure them in place. Remove accumulated snow from the TEMPER roof as necessary. Keep entrances around the vestibules free of snow. Periodically remove snow from the sides of the TEMPER to relieve weight stress.

**OPERATING PROCEDURES FOR MWR POWER EQUIPMENT**

Operate power group equipment in accordance with WP 0024 00 or WP 0034 00 and TM 9-6150-226-13.

**OPERATING PROCEDURES FOR PDISE M100**

Operate the PDISE in accordance with TM 9-6150-226-13.

**OPERATING PROCEDURES FOR ASH HEATERS**

Operate the ASH Heaters in accordance with TM 9-4520-258-14.

**ASSEMBLY AND PREPARATION FOR USE OF FLOODLIGHT SUBSYSTEM**

Operate the floodlight equipment as described in WP 0035 00. Mark and protect extension cords from damage during snow clearing operation using materials furnished in TRICON 44A.

## ASSEMBLY AND PREPARATION FOR USE OF MODIFICATION SYSTEM POWER GENERATION

The basic MSPG set up to support a FP module in a cold weather configuration is essentially identical to that described in WP 0036 00. However, because the spatial configuration of the supported subsystems, as well as the power requirements of some subsystems vary in a cold weather configuration (Refer to Table 3, WP 0022 00) it is advisable to tailor power clusters to the required output and perhaps place some of the TQG in storage if not needed. It may also be necessary to position, or reposition individual power clusters in closer proximity to the supported subsystem(s).

Mark the location of fuel lines and hoses using ribbon flag obtained from TRICON 44A to prevent damage during snow plowing operations. Remove snow accumulation from around the 500-gallon collapsible fuel drums to facilitate refueling operations as well as the TQG. Obtain snow shovels; remove accumulated snow from around the generators, switch boxes, PDISE, and fuel drums. All power connections and cables must be kept visible and free of snow and ice accumulations.

Develop a refueling schedule that assures continuous operation of equipment, based on initial consumption estimates (refer to WP 0038 00, Table 10) and eventually, actual consumption.

## ASSEMBLY AND PREPARATION FOR USE OF MODIFICATION SYSTEM PRIME POWER

The basic MSPP set up to support a FP module in a cold weather configuration is essentially identical to that described in WP 0037 00. However, because the power requirements of some subsystems vary in a cold weather configuration (Refer to Table 3, WP 0022 00) it may be possible to combine some of the transformer locations.

Standard diesel fuel (DF2) will gel in temperatures below 32 °F. To prevent damage to equipment and sustain fuel delivery operations, it is necessary to switch from standard to arctic diesel fuel before temperatures drop below 32 °F. Normally, no action is required by the user, other than to be aware of the requirement not to mix the two types of fuel. The switch to arctic fuel is a theater of operations support command decision and will occur automatically.

### CAUTION

Do not mix standard diesel (DF2) with arctic diesel in the prime power fuel kit tanks. The resultant mixture will coagulate and degrade performance of equipment in which it is used.

Mark the location of fuel lines and hoses using ribbon flag obtained from TRICON 44A to prevent damage during snow plowing operations. Keep refueling access to the prime power fuel kit tanks free from snow. Remove snow accumulation from around the transformers. All power connections and cables must be kept visible and free of snow and ice accumulations.



### WARNING

High voltage is present in the conductor cables. If cables are not buried, they must be clearly marked to prevent contact with snow plowing equipment, causing serious injury or death from electrocution.

Develop a refueling schedule that assures continuous operation of equipment, based on initial consumption estimates and eventually, actual consumption.

**END OF WORK PACKAGE**

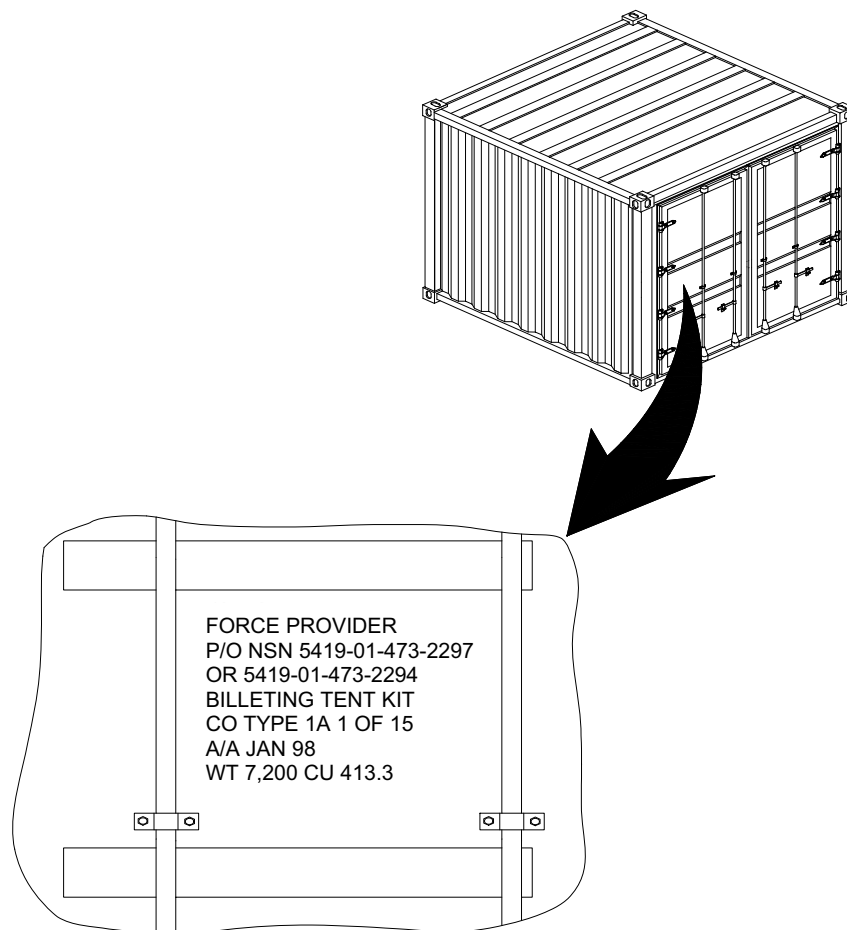
**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - TRANSPORTATION AND STORAGE CONTAINER SUBSYSTEM****GENERAL**

Following are instructions for the preparation for movement and field packing of the transportation and storage container subsystem equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed.

**PREPARATION FOR MOVEMENT OF ISO AND TRICON CONTAINER EQUIPMENT**

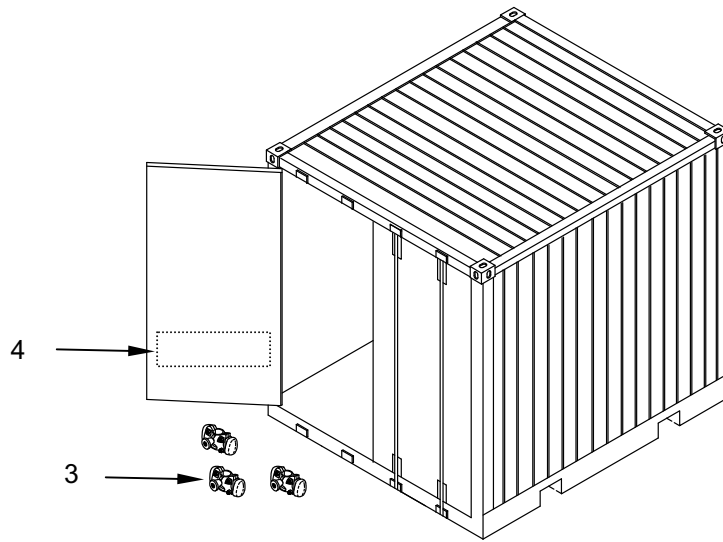
The following procedures outline the steps to prepare the containers for packing and movement.

1. Using WP 0022-00, position containers in each subsystem area as indicated. Shipping container designation is found on the door as shown below, indicating to which subsystem and module each container belongs. Refer to WP 0023 00, if necessary, for a comprehensive listing of containers.
2. Conduct PMCS on the containers prior to packing for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.
3. Verify ISO certification date is valid. Expiration date is reflected on container data plate as shown in Figure 1. Container re-certification must be requested through command channels.



**Figure 1. TRICON Data Plate.**

4. If the TRICON were stacked in a consolidated storage area, remove the connecting links (3) and place three each inside the container door pocket (4).



5. Non-containerized equipment, consisting of the 400-Gallon water trailers and WWET/Ts should be consolidated in the water distribution and latrine subsystem areas, respectively, for preparation.

**MODIFICATION SYSTEMS**

If one or more modification system(s) is to be prepared for field packing, the applicable containers listed in Table 2 through 4 of WP 0023 00 should be positioned for packing as follows:

**MSPG**

1. Containers. Position TRICON 21A and 21B as directed by facilities support section personnel.
2. Non-containerized equipment. Position TQGs in a designated, consolidated area for preparation.

**MSPP**

1. Containers. Position one TRICON 31A in proximity of each transformer. Position TRICON 31C, 32A and 32B as directed by prime power generation personnel. Position TRICON 7C in vicinity of the MSPP fuel storage area. Transformers are serviced and prepared for movement/shipment in place and then packed into TRICON (31A).
2. Non-containerized equipment. Position Prime Power Unit TO&E Equipment in accordance with unit SOP.

**MSCW**

1. Containers. Position one TRICON 41A in proximity of each billeting group and another in between two billeting groups. Position the remaining TRICON as follows:

**Table 1. MSCW TRICON Staging Area.**

<b>Container</b>	<b>Staging Area</b>
42A, 42B, 42C	Food Service Subsystem Area
43A (1) Modified	Laundry Subsystem (1) Site
43A (2) Modified	Shower Subsystem (2) Sites
44A	Administration Subsystem
45A Modified	Food Service Subsystem

2. Modified TRICON. The modified TRICON provided with the MSCW as indicated above, are used with the subsystems to which they are assigned (food service, laundry and shower (2) and must be prepared prior to packing as described in WP 0054 00.

**END OF WORK PACKAGE**



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**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - BILLETING SUBSYSTEM**

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**GENERAL**

Following are instructions for the preparation for movement and field packing of the billeting subsystem equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed. Refer to WP 0024 00 and WP 0086 00 for equipment illustrations, as necessary.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Replace damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON covered in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL Bulk Items List (TM 10-5419-206-23P, WP 0002 00).

**PREPARATION FOR MOVEMENT OF BILLETING POWER SUPPLY EQUIPMENT**

The following procedures outline the steps to prepare the power supply equipment for movement.

1. Switch all TEMPER electrical equipment to OFF and set TEMPER power control switch to OFF.
2. Set all PDISE-M100 circuit breakers, including MAIN, to OFF.



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**WARNING**

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Power supply shall be shut off and disconnected only by qualified personnel. Power source must be shut off and disconnected before attempting to disassemble power supply equipment. Failure to observe this warning may result in severe injury or death by electrocution.

3. Have qualified personnel shut off power to PDISE. Power source must be shut off and disconnected before attempting to disassemble power supply equipment.
4. Have qualified personnel disconnect 100-A/4-foot pigtail from power source.

To disassemble the power supply equipment, proceed as follows:

1. Disconnect 100-A/50-foot service cables from pigtails. Install dust caps.
2. Disconnect each pair of 100-A/50-foot service cables. Install dust caps.
3. Disconnect 100-A/50-foot service cable from J1 connector on each PDISE-M100. Install dust caps.
4. Disconnect 60-A/100-foot power cables from J3 and J6 connectors on each PDISE-M100. Install dust caps.
5. Disconnect each pair of 60-A/100-foot power cables. Install dust caps.
6. Disconnect 60-A/100-foot power cables from POWER IN receptacle (J1) on TEMPER power control box. Install dust caps.

Power supply equipment must be cleaned of dirt, debris and corrosion. Dry the equipment thoroughly, before packing. Prepare power supply equipment for packing as follows:

1. Service and Power Cables. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and then allow to completely air dry.
2. PDISE-M100. Clean the external surfaces with a clean, damp rag. Clean the face of PDISE-M100 circuit breaker panel with a dry rag.

Prepare the following cables for packing into TRICON Type 1A. Quantities listed are for two TEMPER, to be packed into one TRICON. Position power supply equipment near TRICON Type 1A, but do not begin packing container yet. Procedures for field packing the containers follow later in this WP.

1. Locate one PDISE-M100. Ensure that all connector covers are installed and secured, and that the top cover is closed and secured.
2. Locate two 100-A/50-foot service cables and eight cable carrying straps. Coil each cable into a uniform coil having a diameter no greater than 26 inches. Secure each coil using four cable carrying straps.
3. Locate four 60-A/100-foot power cables and eight carrying straps. Coil each cable into a uniform coil having a diameter no greater than 30 inches. Secure each coil using two cable carrying straps.
4. Locate one 100-A/4-foot pigtail. Ensure dust cap is installed and secured on the cable connector.

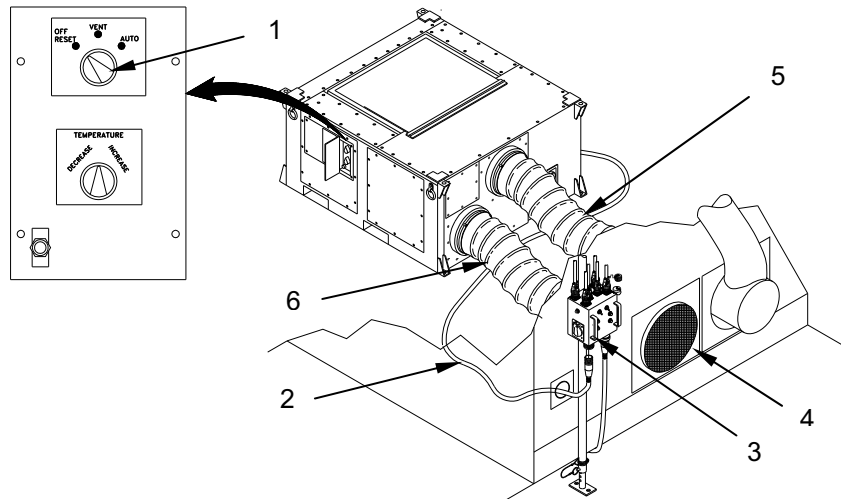
## PREPARATION FOR MOVEMENT OF BILLETING ECU

### NOTE

The following instructions for the preparation for movement of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-4096) is at hand, assemble, shut down and prepare it for movement and packing in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-459) are at hand, use TM 9-4120-411-14. Otherwise, follow the instructions furnished herein.

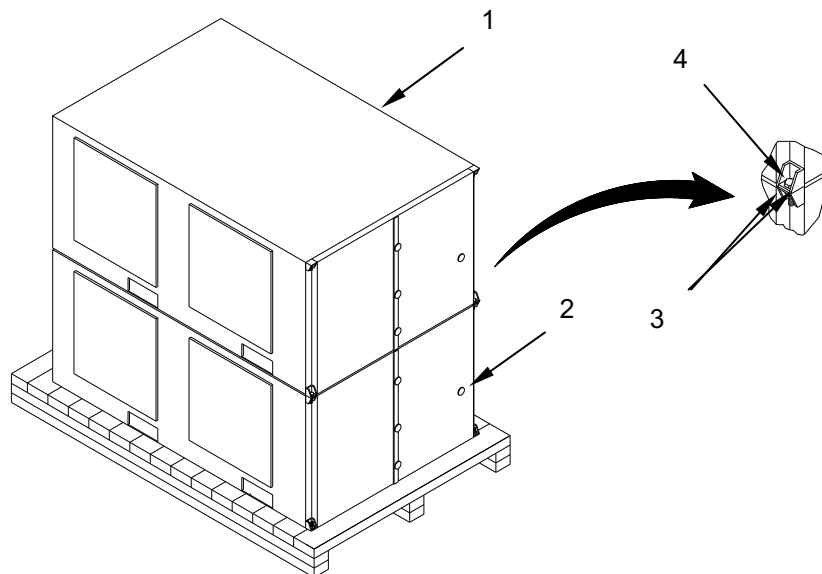
1. Set ECU mode selector switch (1) to OFF- RESET position.
2. Disconnect ECU power cable (2) from POWER OUT receptacle on TEMPER power distribution box (3). Install dust caps on cable and receptacle. Coil cable (2) and store inside condenser compartment storage box.
3. Remove debris screen (4) from return duct.
4. Disconnect ECU supply duct (5) and return duct (6) from TEMPER and ECU. Store ducts in condenser compartment storage box.





Prepare the ECU for movement as follows:

1. Locate two ECU (1) and (2), one with attached pallet and one without. Ensure latches and doors are secured.
2. Remove four mounting bolts, nuts and washers (3) from four unit-to-unit corner mounts (4) of pallet-attached ECU (2).
3. With forklift, position ECU (1) without pallet on top of pallet-attached ECU (2), ensuring both ECU (1) and (2) face the same direction and unit-to-unit mounting holes (4) are aligned. Secure units together with four  $\frac{5}{8}$ -inch x 2-inch bolts, four  $\frac{5}{8}$ -inch nuts and four flat washers (3).



4. Pack ECU pallet into TRICON Type 1B as described under FIELD PACKING BILLETING ECU KIT TYPE 1B in this WP.

**PREPARATION FOR MOVEMENT OF BILLETING EQUIPMENT**

For illustrations refer to WP 0024 00. Quantities listed are for two TEMPER.

1. Remove all equipment from TEMPER and place it outside, near appropriate TRICON (refer to Tables 1 and 2 of WP 0024 00) but do not begin packing containers yet. Do not pool equipment from more than two TEMPER together.
2. Clean all components of dirt, debris and corrosion. Dry components thoroughly.

Prepare Equipment for Storage or Shipment as follows:

1. Locate two floormats. Tightly roll each 32-foot floormat individually, and secure roll in two places with tape.
2. Locate 30 bunk beds and disassemble. Place each bunk bed, consisting of two end rails, four swaged, and two un-swaged side rails, as well as four discs, one bunk mat, two stack adapters, and one each locking and diagonal strap, into a canvas transport bag.

**NOTE**

Do not prepare used or soiled cleaning equipment such as brooms and mop heads for packing. Dispose of these items locally.

3. Locate two shovels, two brooms, and two mop handles. Wrap each shovel head with a minimum of two wraps of cushioning material. Nest the two shovels together and secure with tape. Wrap the broom head in plastic sheet or protective paper and secure with tape. Wrap each mop handle metal end with barrier material and secure in place with tape. Nest the two mop handles together and secure with tape.
4. Locate one sledge hammer and one wooden mallet. Wrap sledge hammer head with a minimum of two wraps of cushioning material and secure with tape. Place both the sledge hammer and the mallet inside a fiberboard container with outer dimensions not to exceed 40.5-inches long X 10-inches wide x 8-inches high. Fill voids within container using cushioning material to prevent contents from moving.
5. Locate two mop wringers and two footlockers. Place each wringer inside original shipping box, if available. Place one box containing a wringer and one unused mop head into each footlocker. Use cushioning material to fill empty space as necessary. Prepare footlockers as described in 7. below.
6. Locate two fire extinguishers and one footlocker. Wrap each fire extinguisher in cushioning material and secure with tape. Place each fire extinguisher into original shipping box, if available. Place two boxes containing fire extinguishers into footlocker together with one copy each of TM 10-8340-224-13 and TM 10-8340-224-23P. Use cushioning material to fill empty space as necessary. Prepare footlockers as described in step 7 below.
7. Locate the remaining footlockers, secure the lids and place each locker inside original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inches long x 21-inches wide x 13-inches high may be used. Close boxes with tape. Stack the lockers in a central location.

**PREPARATION FOR MOVEMENT OF FLOODLIGHT EQUIPMENT**

Prepare the 1,000W and 2,000W Floodlights and associated equipment for movement as described in WP 0051 00.

**PREPARATION FOR MOVEMENT OF BILLETING TEMPER**

Prior to striking the TEMPER, ensure all equipment has been removed.

**NOTE**

Do NOT pool or mix TEMPER components. Keep all components in the area where TEMPER was erected.

Strike TEMPER in accordance with TM 10-8340-224-13.

TEMPER Components must be cleaned of dirt, debris and corrosion, then dried thoroughly, before packing. Prepare TEMPER Equipment for packing as follows:

1. Exterior Fabric Components and Vinyl Liners. Sweep loose dirt from both sides of each fabric section and clean with a scrub brush and warm soapy water. Rinse with clean water and allow fabric to completely air dry.
2. Cloth Liners. Do not launder liners. Sweep loose dirt from both sides of each liner. Allow liners to completely air dry.
3. Frame Components. Clean with steam cleaner or pressurized washer, and scrub brush. Allow frame sections to completely air dry.
4. Electrical Cable Assemblies. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and allow cables to completely air dry.
5. TEMPER Power Control. Clean the external surfaces with a clean, damp rag. Ensure all dust caps are installed and secure.

**FIELD PACKING BILLETING TENT KIT TYPE 1A**

This paragraph provides information to pack equipment into TRICON Type 1A. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into designated containers, and maintain uniformity of similar TRICON. The following procedures are for field packing one of fifteen identical TRICON, Type 1A. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 1A refer to Table 1, WP 0024 00.

For information and illustrations of TEMPER components refer to TM 10-8340-224-13.

For information and illustrations of PDISE-M100 and associated components refer to TM 9-6150-226-13.

For information and illustrations of other billeting components refer to WP 0086 00.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

To prepare Tent Bundle #1, locate the following items:

**Table 1. Tent Bundle #1.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	2
Line, Tent	8
Slip, Tent Line	8
Tent Fly, 16-foot, D/T	1
Line, Tent	6
Slip, Tent Line	6
End Section, D/T	1
Line, Tent	2
Slip, Tent Line	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38 inches long by 38 inches wide, plus or minus 2 inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent 1, Bundle 1 of 4", "Tent 1, Bundle 2 of 4", "Tent 2, Bundle 1 of 4" and "Tent 2, Bundle 2 of 4".
6. Repeat steps 1 through 5 above and package tent bundles #2, #3, and #4 in the same manner.

To prepare Tent Bundle #2, locate the following items:

**Table 2. Tent Bundle #2.**

Item	Quantity
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2
Plenum, End Wall, TEMPER	1
Plenum, Entrance, 16 -ft, TEMPER	1
Plenum, Extendable 16 -ft, TEMPER	1
Partition	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.

5. Bundle identification stencil must be visible, i.e., “Tent 1, Bundle 3 of 4” and “Tent 2, Bundle 3 of 4”.
6. Repeat steps 7 through 11 above and package another tent bundle #2 in the same manner.

To prepare Tent Bundle #3, locate the following items:

**Table 3. Tent Bundle #3.**

Item	Quantity
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2
Partition	1
Container, Pin	3
Vestibule Container, TEMPER	1
Vestibule with Door, TEMPER	1
Line, Tent	4
Slip, Tent Line	4
Vestibule Floor, SP, TEMPER	1

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., Tent 1, Bundle 4 of 4 and Tent 2, Bundle 4 of 4.
6. Repeat steps 1 through 5 above and package another tent bundle #3 in the same manner.

To prepare End Section Frame Assembly Bundles, locate the following items:

**Table 4. End Section Frame Assembly.**

Item	Quantity
Arch Assembly	2
Transport Storage Cover	1
Header Assembly	2
Purlin Assembly	5
Eave Extender	4
Ridge Extender	2

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.

5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98.5-inches long x 17- inches wide x 8-inches tall.
7. Repeat steps 1 through 6 above and package another end section frame bundle in the same manner. To prepare the Window Section Frame Assembly Bundles, locate the following items:

**Table 5. Window Section Frame Assembly.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender	1
Transport Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover and close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98.5-inches long x 17-inches wide x 8-inches tall.
7. Repeat steps 1 through 6 above and package five additional window section frame bundles in the same manner.

Locate three Vestibule Frame Assemblies, each consisting of the following components:

**Table 6. Vestibule Frame Assembly.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

1. Locate one vestibule frame container.
2. Place three (3) vestibule frame assemblies inside the vestibule frame container. Place cushioning material between any metal parts that contact each other in the container. Secure with tape.

To prepare the tent pins for packing, proceed as follows:

1. Locate four wooden tent pinboxes and place 30 each 18-inch steel tent pins in each box. Secure lid of box with nails.
2. Locate two fabric tent pin containers and place 25 each wood tent stakes in each container. Secure containers with tie provided.

Locate four (4) fluorescent light sets. Place each light set into an original manufacturer's box, if available, or a fiberboard box with exterior dimensions not to exceed 75 ½-inches long x 22-inches wide x 7-inches high. Close boxes with tape.

Locate two TEMPER distribution box stands and wrap both ends with cushioning material. Secure with tape. Wrap fiberboard around the center mounting plate and secure it in place with tape.

Locate four TEMPER convenience outlet assemblies, 3-drop. Wrap each convenience outlet in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.

To prepare the TEMPER Distribution Box Assemblies, locate the following items:

**Table 7. TEMPER Distribution Box Assemblies.**

Item	Quantity
TEMPER Electrical Distribution Box	1
Cable Assembly, Light, 173-in	1
Cable Assembly, Light, 103-in	1
Cable Assembly, Outlet, 254-in	2
Cable Assembly, Outlet, 156-in	2

1. Record the serial number of the distribution box.
2. Completely wrap the temper electrical distribution box in cushioning material. Secure cushioning material in place with tape.
3. Wrap the temper electrical distribution box in barrier material. Secure in place with tape.
4. Record serial number on outside of wrapped distribution box.
5. Wrap the connectors on each end of the cables in two layers of cushioning material and secure in place with tape.
6. Wrap each connector end in barrier material. Secure in place with tape.
7. Neatly coil each assembly and secure with twine or cable ties.
8. Repeat steps 1 through 7 above to package the second distribution box.
9. Locate two footlockers. Place two convenience outlets and one electrical distribution box, as prepared above, inside each footlocker. Secure the lids and place each locker inside original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inches long x 21-Inches wide x 13-inches high may be used. Stack the lockers in a central location.
10. Locate four 60-A/100-foot Power Cable Assemblies.
  - a. Wrap the connectors on each end of the cable in two layer of cushioning material and secure with tape.
  - b. Wrap each connector end in barrier material and secure with tape.
  - c. Neatly coil each assembly and secure with twine or cable ties.
  - d. Coiled assemblies should fit two (2) each into original shipping fiberboard container. Other fiberboard containers with the outer dimensions of 32½-inches long x 32½-inches wide x 9 inches high can also be used. A liner made of fiberboard shall be placed against the inside walls of the box.
11. Locate one Electrical Feeder System PDISE M-100.
  - a. Ensure that all connector covers are installed and secured.

- b. Wrap PDISE with cushion material and secure with tape.
- c. Wrap PDISE with barrier material and secure with tape.
- d. Place wrapped PDISE into original shipping, or appropriate replacement fiberboard container.
- e. Place TM 9-6150-226-13 into container with PDISE and close the container with tape.
- f. Locate two 100-A/50-foot service cables and one 100A/4-foot pigtail assembly.
- g. Wrap connectors of cable and pigtail assemblies with cushioning material and secure with tape. Wrap connectors with barrier material and secure with tape.
- h. Coil each cable and the pigtail assembly into a uniform coil with a diameter no greater than 26 inches.
- i. Locate eight cable carrying straps and secure each 50-foot cable coil with four straps.

**Packing Procedures for TRICON Type 1A**

The following packing materials and other items are required to pack TRICON 1A:

**Table 8. TRICON Type 1A Packing Materials.**

Item, NSN	Qty
Pad, energy dissipating, 3in thick (honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2 x 6 x 75-3/4-inch long	3
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Twine, Cotton, Wrapping, T-T-871	As required
Fiberboard sheet 4 x 8-foot	4
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4

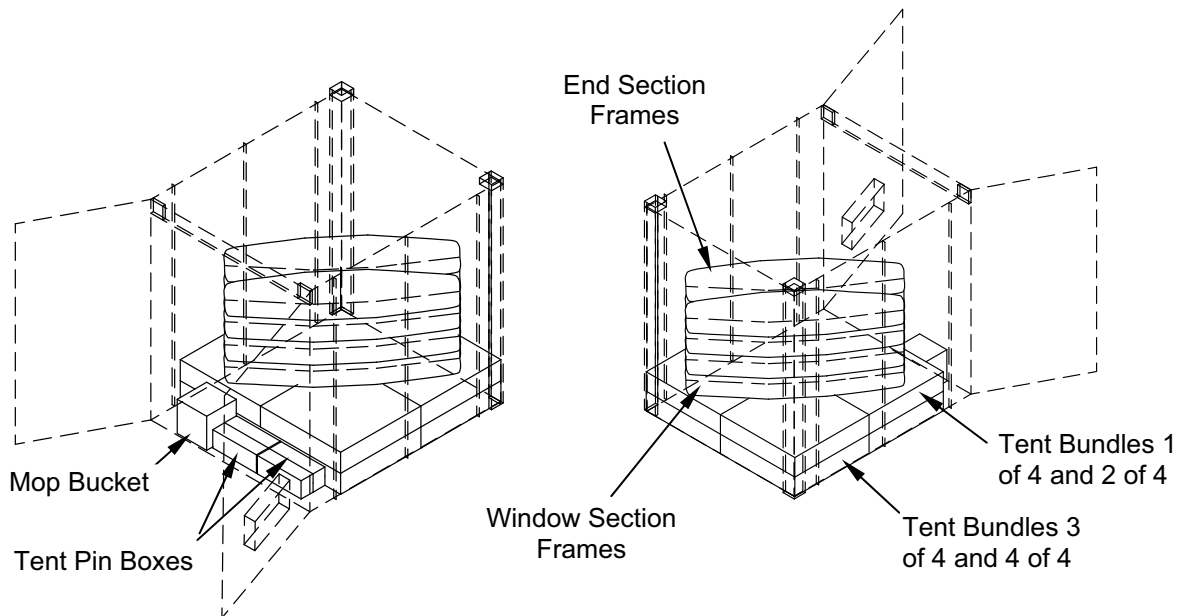
Use the following procedures to pack bottom layer of TRICON Type 1A:

1. Locate TRICON with "BILLETING TENT KIT; CO. TYPE 1A..." stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry. Inspect the container for any physical damage, and that all doors and latches operate properly.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate the tent bundles 3 of 4 and 4 of 4. Place these bundles flat on the TRICON floor, forming a uniform layer covering the entire floor. Make sure that the bundles do not overhang out the front of the TRICON interfering with closing the door.
5. Locate the tent bundles 1 of 4 and 2 of 4. Place these bundles flat over the first layer, forming a uniform layer. Make sure that the bundles do not overhang out the front of the TRICON interfering with closing the door.
6. Locate two end section frames and six window section frames. Proceed with caution as you place the frames in the container. Make sure that the frame sections do not interfere with the 2 x 6-inch boards that will go across the front of the TRICON when packing is complete or the closing of the TRICON



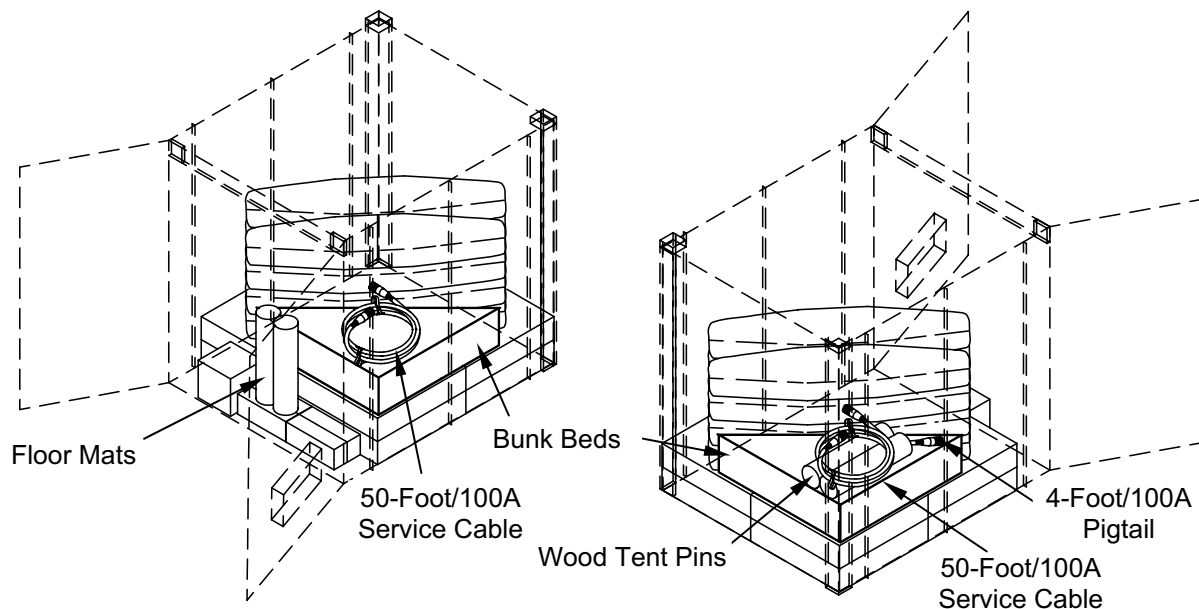
door. Also, ensure that the stack of frames is flat and stable. Place frame sections diagonally over the tent bundles lying from right rear to left front.

7. Locate one mop bucket, and four tent pin boxes. Place these on the floor in front of the tent bundles.



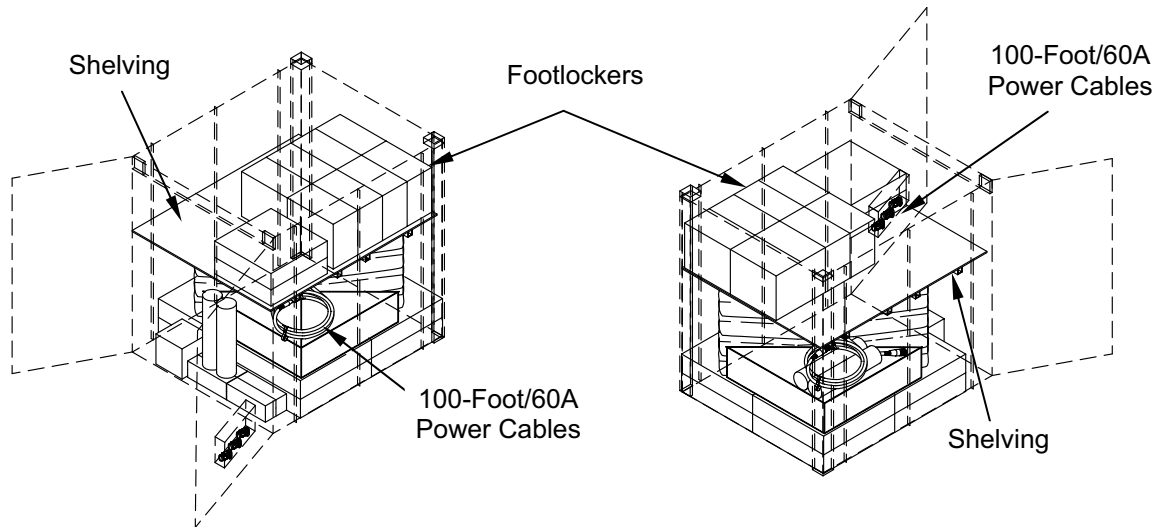
Use the following procedures to pack layer 2 of TRICON Type 1A:

1. Locate thirty bunk beds, two 50-foot/100-A service cable assemblies, one 4-foot/100-A pigtail cable, two wood tent pin bags, and two floormats. Distribute bunk beds equally into the two triangular space quadrants created by the tent frames. Place pigtail cable, tent pins and floormats on top of bunk beds.
2. Locate four TRICON shoring beams. Install them so that the bottom of the bracket is at the lowest possible position as marked. Ensure that all the braces are connected to the vertical uprights at the same height.



Use the following procedures to pack layer 3 of TRICON Type 1A:

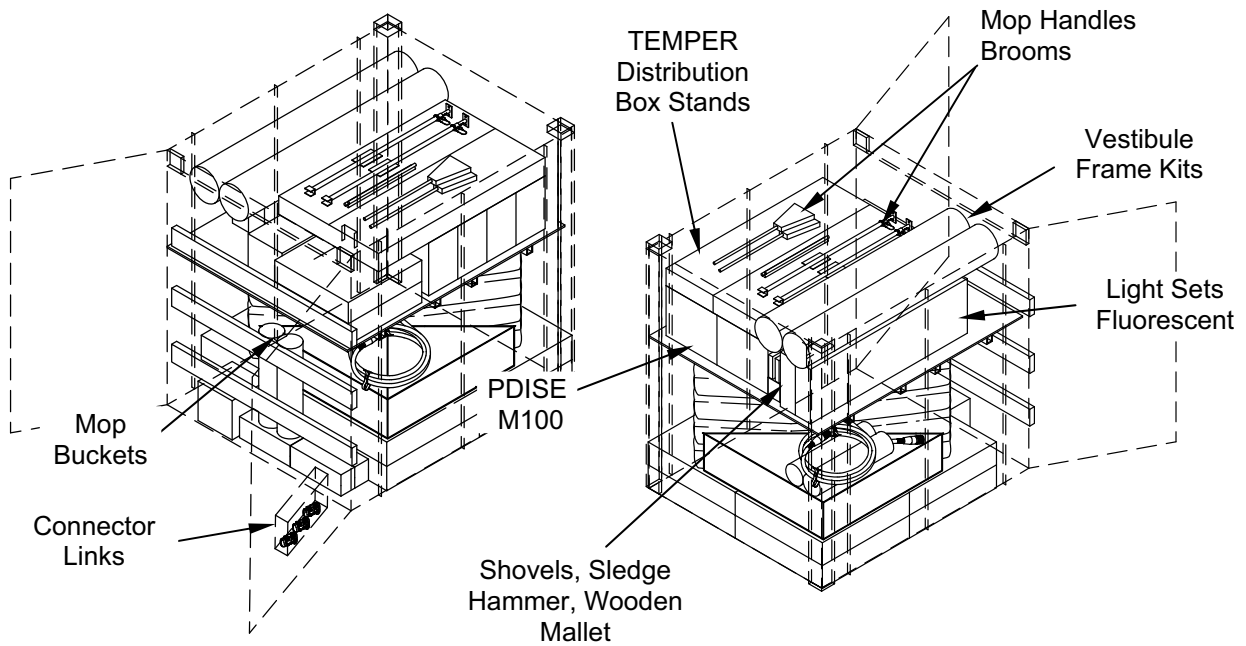
1. Locate and install the two shelf assemblies on top of the brackets.
2. Locate eight trunk lockers. Place in the right rear corner of the TRICON - two across and four deep. Ensure that content markings are facing forward.
3. Locate two 100-foot/60-A power cable assembly containers. Place one on top of the other on right side of shelf in front of trunk lockers.



Use the following procedures to pack layer 4 of TRICON Type 1A:

1. Locate four light sets. Place two flat side by side on top of trunk lockers. Place the other two against the left TRICON wall.
2. Locate shovels and sledge hammer/wooden mallet box. Place in the cavity between light sets and footlockers.
3. Locate the PDISE M-100 Box and place next to the light sets and in front of the footlockers. Ensure that the humidity indicator is visible from the front of the open TRICON.
4. Locate mop buckets and place between the PDISE M-100 Box and the 100-foot/60-A cable assembly containers.
5. Locate two vestibule frame kits. Place on top of light sets in upper left hand corner.
6. Locate mop handles, brooms, and two TEMPER Distribution Box Stands. Lay them on top of the pack.
7. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Use cushioning material to fill voids between the packaged contents. These fillers and dunnage are installed to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
8. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.

## 9. Close and secure TRICON doors.



**Fig 1. Field Packing Billeting Tent Kit Type 1A.**

### FIELD PACKING BILLETING ECU KIT TYPE 1B

This paragraph provides information to pack equipment into TRICON Type 1B. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into designated containers, and maintain uniformity of similar TRICON. The following procedures are for field packing one of o identical TRICON Type 1B. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment for storage or shipment.

#### Pertinent References:

For a complete inventory of TRICON Type 1B refer to Table 2, WP 0024 00.

For illustrations of ECU refer to WP 0024 00.

For information and illustrations of other billeting components refer to WP 0086 00.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

To prepare remaining equipment (ECUs were prepared for shipment as described previously in this WP under PREPARATION FOR MOVEMENT OF BILLETING ECU) for packing into TRICON Type 1B, proceed as follows:

1. Locate fourteen folding chairs and stack in three groups of four and one group of two. Place protective paper between each chair. Pack each group of chairs in the original shipping container, or a replacement fiberboard container with exterior dimensions not to exceed 18-inches long x 11-inches wide x 39-<sup>1</sup>/<sub>2</sub>-inches high. Use filler material for partially empty boxes. Close boxes with tape.
2. Locate thirteen footlockers, secure the lids and place each locker inside original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inches long x 21-Inches wide x 13-inches high may be used. Close boxes with tape. Stack the lockers in a central location.

3. Locate one pair of cotton glove inserts and two debris screens. Wrap these items in barrier material. Locate one footlocker and place wrapped items inside. Close and pack footlocker as described in step 2 above.



**WARNING**

To prevent burns, let tripod floodlights cool down before disassembly and preparation for packing.

4. Locate one 1000W and one 2000W tripod floodlights. Prepare and pack floodlights as described in WP 0051 00.

**Packing Procedures for TRICON Type 1B**

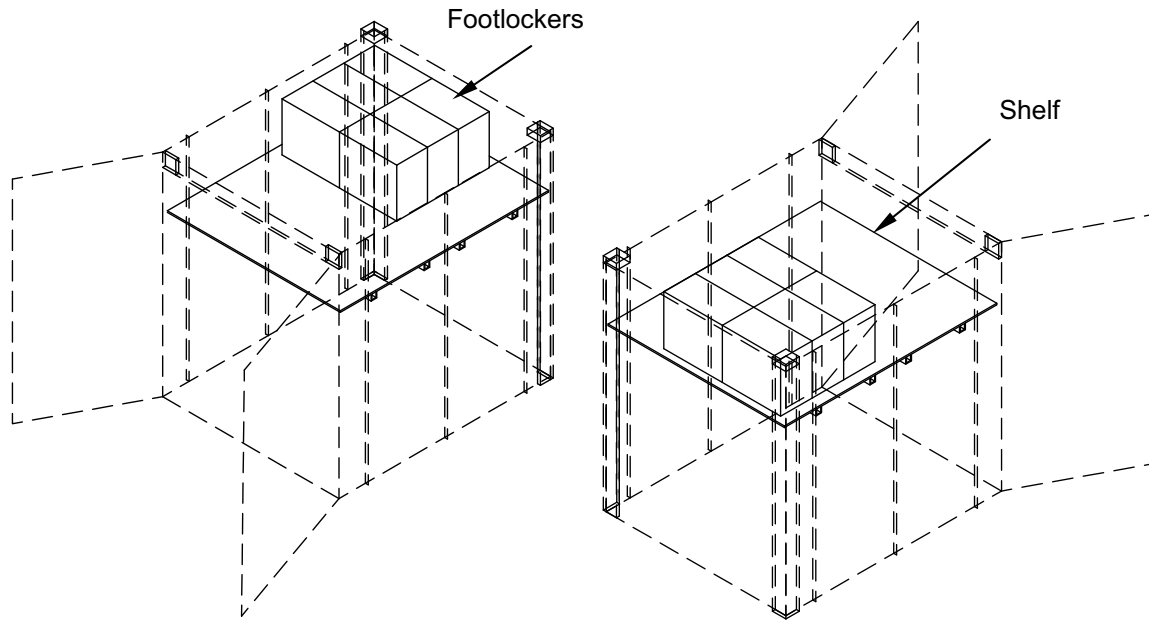
The following packing materials and other items are required to pack TRICON 1B:

**Table 9. TRICON Type 1B Packing Materials.**

Item, NSN	Qty
Pad, energy dissipating, 3-inch thick (honeycomb), NSN 1670-00-753-3928, as required	As required
Lumber, 2 x 6 x 75-3/4-inches	1
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4
Bolt, carriage, Zinc, 5/8-11 x 3-inches	4
Washer, 5/8, Zinc	8
Nut, 5/8-11, Zinc	4
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Special Purpose Web, Tiedown NSN 3990-01-204-3009	4
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Lumber 2-inch X 6-inch	As required
Cable tie, nylon 12 inch, NSN 5975-00-985-6630	As required

Use the following procedures to install the shelf and pack twelve footlockers into TRICON Type 1B:

1. Locate TRICON with “ECU KIT; CO. TYPE 1B...” stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry. Inspect the container for any physical damage, and that all doors and latches operate properly.
3. Install the rear two upper shelf supports. Install the shelf supports so that the distance from the floor to the shelf bottom is 74-inches (a paint mark will indicate the appropriate location). Place one shelf on the supports, to the rear of the container. Install one layer of honeycomb dunnage between the knuckles at the rear of the container, above the shelf to provide a flush surface at the rear of the container, above the shelf. Place six footlockers, on the shelf with honeycomb dunnage between the two center boxes as necessary to prevent shifting during transportation.
4. Install the front shelf supports at the same height as the rear supports (a paint mark will indicate the appropriate location), and place a shelf against the rear shelf to provide one level surface at the same elevation. Place six footlockers on the shelf. Place honeycomb dunnage between the two center boxes as necessary. Place honeycomb dunnage in front of the trunk locker boxes. Install one 2-inch x 6-inch piece of lumber fitted to the dunnage in order to prevent forward movement of the boxes and dunnage on the shelf.

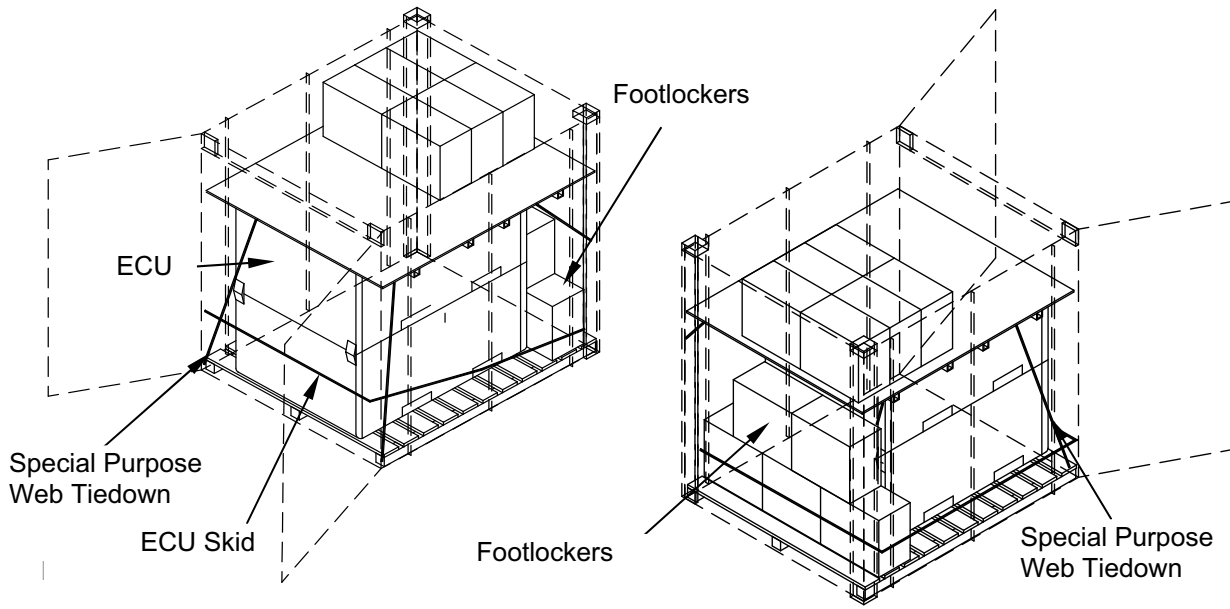


Use the following procedures to pack the ECU skid and additional footlockers into TRICON Type 1B:

1. Place two footlockers on a prepared ECU skid, at the rear of the ECUs. Position the skid inside the TRICON and block and brace between the skid and TRICON side and rear walls as necessary to prevent side-to-side or lateral movement.
2. Using two special purpose web tiedowns, secure the ECU skid assembly to the TRICON tiedown loops. Connect the un-ratcheted end to the rear tiedown loops approximately three feet above the TRICON floor, cross the straps over the ECUs and fasten the ratcheted ends to the tiedown loops at the front of the TRICON approximately two feet above the floor. Before tightening, ensure that protective nylon sleeves or additional corner protectors are in place to prevent damage to the barrier material. Ensure that the straps are properly tightened, are not twisted, and/or caught up on any obstruction.
3. Neatly fold the loose ends of the straps and secure with a nylon cable tie.

### NOTE

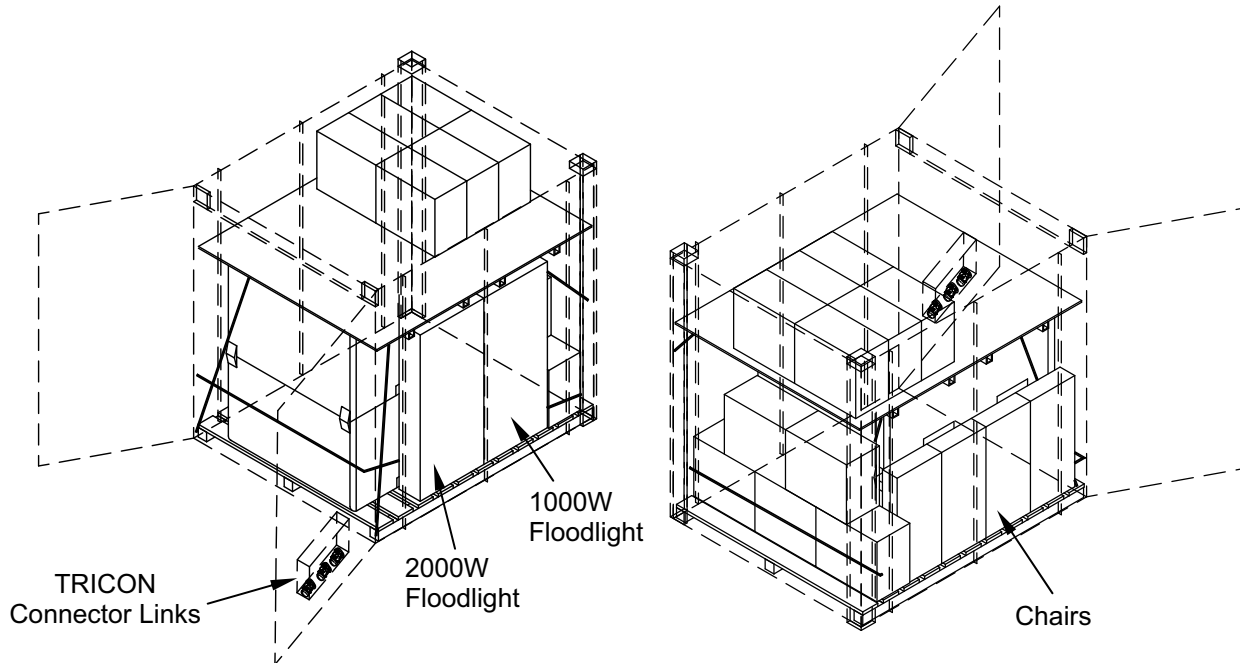
In the event that different sized footlockers are available as equal or similar to the standard (NSN 8460-01-471-1024), packing plans may vary as required to pack items into the largest trunk lockers available. When necessary to mix footlockers, the larger trunk lockers are to be reserved for cases in which materials must be packed inside, and smaller trunk lockers used in cases where packed empty and where space is restricted.



Use the following procedures to pack the tripod floodlights, chairs and appropriate dunnage into TRICON Type 1B:

1. Locate one box of 1000W tripod floodlights with 50-foot extension cord and one box of 2000W tripod floodlights with 50-foot extension cord. Place both closed boxes in the container, to the right of the ECUs.
2. Locate four boxes of chairs and place upright to the left of the ECUs placing (if applicable) the box of two chairs as one of the center boxes.
3. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Use cushioning material to fill voids between the packaged contents. These fillers and dunnage are installed to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
4. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.

5. Close and secure TRICON doors.



**Fig 2. Field Packing Billeting Air Conditioner Kit Type 1B.**

### **FIELD PACKING BILLETING TRUNK LOCKER KIT TYPE 1C**

This paragraph provides information to pack footlockers and bunk beds into TRICON Type 1C. Close adherence to these procedures is imperative to prevent equipment damage and allow all equipment to fit into designated container. The following procedures are for field packing one TRICON Type 1C. Depot shelves, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment for storage or shipment.

#### **Pertinent References:**

For a complete inventory of TRICON Trunk Locker Kit Type 1C refer to Table 3, WP 0024 00.

For illustrations of bunk beds refer to WP 0024 00.

For illustrations of other components see WP 0086 00.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

To prepare equipment for packing into TRICON 1C, proceed as follows:

1. Locate 66 footlockers. Secure the lids and place each locker inside original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inches long x 21-inches wide x 13-inches high may be used. Stack the lockers in a central location.
2. Locate 10 bunk beds and disassemble. Place each bunk bed, consisting of two end rails, four swaged, and two un-swaged side rails, as well as four discs, one bunk mat, two stack adapters, and one each locking and diagonal strap, into a canvas transport bag.

## Packing Procedures for TRICON Type 1C

The following packing materials and other items are required to pack TRICON 1C:

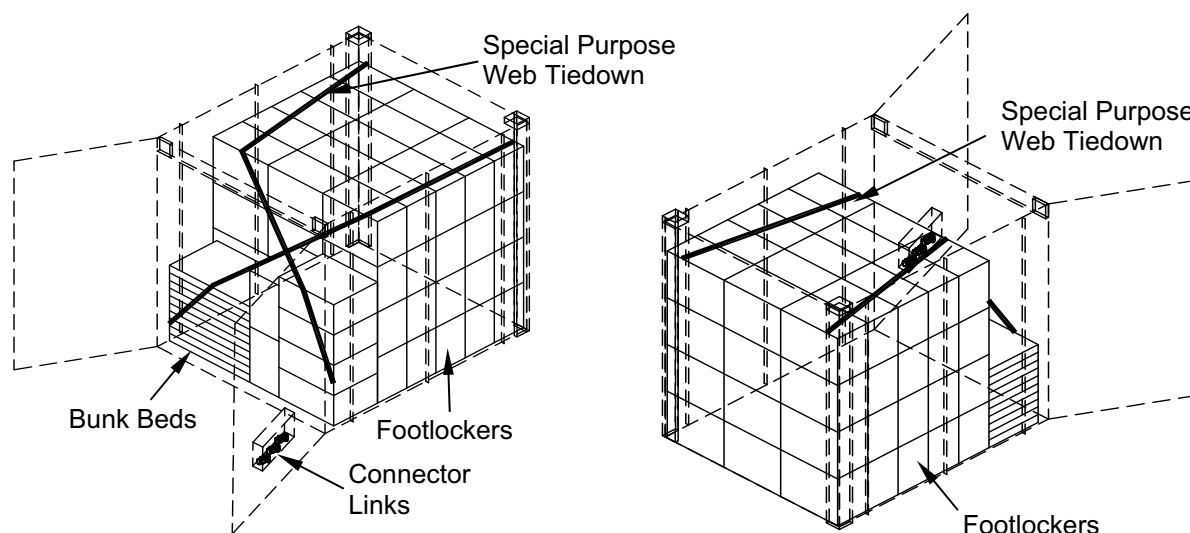
**Table 10. TRICON Type 1C Packing Materials.**

Item, NSN	Qty
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Pad, energy dissipating, 3-in thick (honeycomb), NSN 1670-00-753-3928, as required	As required
Special Purpose Web, Tiedown NSN 3990-01-204-3009	2
Cable tie, nylon 12 inch, NSN 5975-00-985-6630	As required

1. Locate TRICON with "TRUNK LOCKER KIT; CO. TYPE 1C.." stenciled on the left door (this container should be staged in a central location within the billeting area).
2. Open doors and remove everything from container. Ensure interior is clean and dry. Inspect the container for any physical damage, and that all doors and latches operate properly.
3. Locate two special purpose web tiedown devices. Attach one to the top left rear and the other to the top right rear of TRICON.
4. Locate sixty-six footlockers. Place three against the rear wall of the TRICON, with the long side of the fiberboard box facing upward, and the top/bottom of the box facing forward, forming the first layer. In the same orientation, place three footlockers on top of the first layer, forming the second layer. Repeat to form the third and fourth layers. This completes the first roll.
5. Repeat placement of trunk, lockers to form five complete rolls, keeping the special purpose web, tiedown straps on top of each roll.
6. Place four footlockers against the right side of the TRICON, laying flat with the long side of the fiberboard box facing forward.
7. Place two remaining footlockers on end, one on top of the other, against the first four.
8. Locate ten bunk beds. Stack the beds in the remaining space on the left side of the TRICON.
9. Install honeycomb dunnage to prevent the load from shifting during transportation.
10. Attach the tiedown straps to the lower tiedown location in the opposite front corners of the container and tighten. Neatly fold the loose ends of the straps and secure with a nylon cable tie.



11. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door. Close and secure TRICON doors.



**Fig 3. Field Packing Billeting Trunk Locker Kit Type 1C.**

**FIELD PACKING BILLETING BUNK BED KIT TYPE 1D**

This paragraph provides information to pack bunk beds into TRICON Type 1D. Close adherence to these procedures is imperative to prevent equipment damage and allow all equipment to fit into designated container. The following procedures are for field packing one TRICON Type 1D. Depot shelves, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment for storage or shipment.

**Pertinent References:**

For a complete inventory of TRICON Bunk Bed Kit Type 1D refer to Table 4, WP 0024 00.  
 For illustrations of bunk beds refer to WP 0024 00.  
 For illustrations of other components see WP 0086 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

To prepare equipment for packing into TRICON 1D, proceed as follows:

Locate 110 bunk beds and disassemble. Place each bunk bed, consisting of two end rails, four swaged, and two un-swaged side rails, as well as four discs, one bunk mat, two stack adapters, and one each locking and diagonal strap, into a canvas transport bag.

**Packing Procedures for TRICON Type 1D**

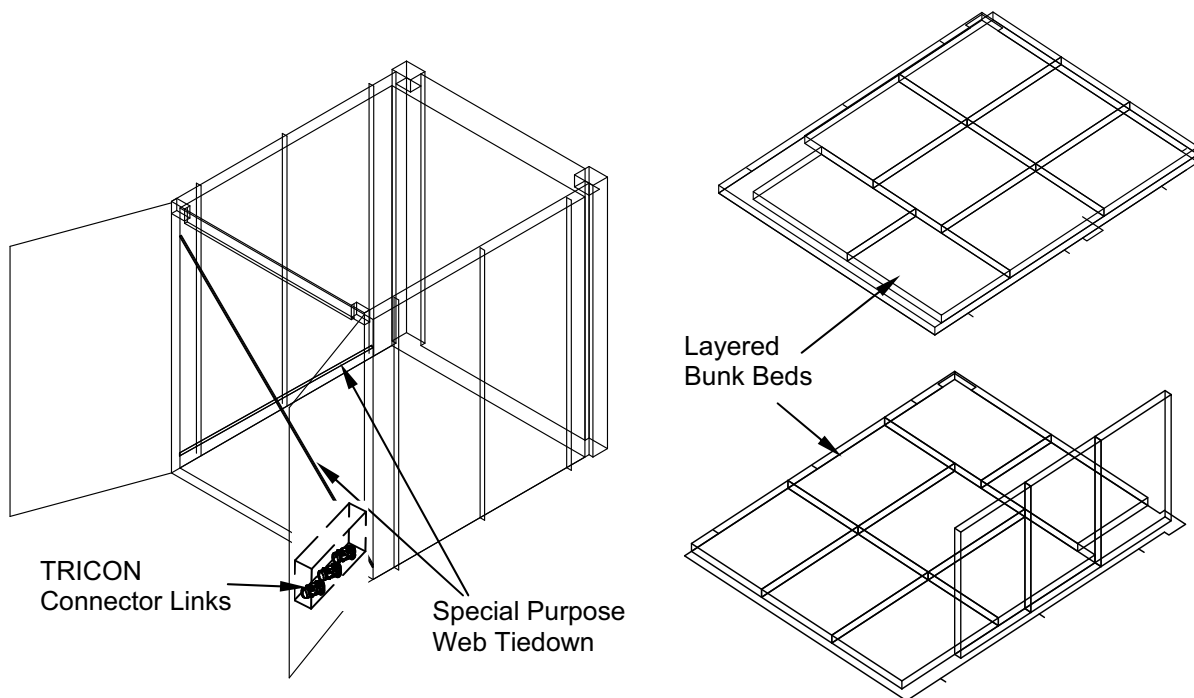
The following materials and items are required to pack TRICON 1C:

**Table 11. TRICON Type 1D Packing Materials.**

Item	Qty
Fiberboard, Single Wall	As required
Cable tie, nylon 12 inch, NSN 5975-00-985-6630	As required
Special Purpose Web, Tiedown NSN 3990-01-204-3009	2

1. Locate TRICON with "BUNK BED KIT; CO. TYPE 1D.." stenciled on the left door (this container should be staged in a central location within the Billeting).

2. Open doors and remove everything from container. Ensure interior is clean and dry. Inspect the container for any physical damage, and that all doors and latches operate properly.
3. Layer bunk bed bags, alternating direction of each bag as stacked upon another for tightest fit. Alternate direction of bunk bed bags from layer to layer to form flat layers.
4. Locate two special purpose web tiedowns. Connect one end of each tiedowns to the upper corner tiedown bracket, on each side of the container. Crisscross the tiedowns, connecting the opposite ends to the lower corner tiedown brackets on each side of the container. Tighten straps and neatly fold end of tiedown strap and secure with nylon zip ties.
5. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents and the dunnage itself from falling out when the doors are opened.
6. Ensure that three TRICON connectors links are located in the holder on the lower inside of the right hand container door.
7. Close and secure TRICON doors.



**Fig 4. Field Packing Billeting Bunk Bed Kit Type 1D.**

**END OF WORK PACKAGE**

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**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - LAUNDRY SUBSYSTEM**

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**GENERAL**

Following are instructions for the preparation for movement and field packing of the laundry subsystem equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed. Prepare the CBL (ISO container 2C) for movement as described in TM 10-3510-225-13&P. Refer to WP 0025 00 and WP 0087 00 for equipment illustrations, as necessary.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Replace damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL Bulk Items List (TM 10-5419-206-23P, WP 0002 00).

**NOTE**

Coordinate with CBL operator(s) to ensure CBL internal water system has been winterized before discontinuing utility services. Refer to TM 10-3510-225-13&P as necessary.

**PREPARATION FOR MOVEMENT OF POWER SUPPLY EQUIPMENT**

The following procedures outline the steps to prepare the power supply equipment for movement.

1. Switch TEMPER electrical equipment to OFF and set TEMPER power control switch to OFF.
2. Switch the CBL circuit breakers to OFF and prepare CBL power equipment for movement as described in TM 10-3510-225-13&P.
3. In coordination with latrine subsystem personnel, set all PDISE-M100 circuit breakers, including MAIN, to OFF.



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**WARNING**

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Power supply shall be shut off and disconnected only by qualified personnel. Power source must be shut off and disconnected before attempting to disassemble power supply equipment. Failure to observe this warning may result in severe injury or death by electrocution.

**NOTE**

The PDISE M-100 powering the laundry subsystem through the main electrical panel located on the CBL is part of the latrine subsystem and its preparation for movement the responsibility of the latrine subsystem personnel.

To disassemble the laundry subsystem power supply equipment, proceed as follows:

1. Disconnect 60-A/100-foot power cable from J3 connector on the PDISE-M100. Install dust caps.
2. If more than one cable was used, disconnect 60-A/100-foot power cables. Install dust caps.

3. Disconnect 60-A/100-foot power cable from POWER IN receptacle (J1) on TEMPER electrical distribution box. Install dust caps.
4. Disconnect the 20A power cable from connector #2 on the washer input/output panel.

Power supply equipment must be cleaned of dirt, debris and corrosion. Dry the equipment thoroughly, before packing. Prepare power supply equipment for packing as follows:

1. Service and Power Cables. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and then allow to completely air dry.

### NOTE

The PDISE-M100 to be packed into TRICON 2A is used by the food service subsystem. It must be retrieved before it can be cleaned and prepared for packing.

2. PDISE-M100. Clean the external surfaces with a clean, damp rag. Clean the face of PDISE-M100 circuit breaker panel with a dry rag.

Prepare the following cables for packing into TRICON Type 2A and 2B. Position power supply equipment near TRICON indicated, but do not begin packing container yet. Procedures for field packing the containers follow later in this WP.

1. Locate one PDISE-M100. Ensure that all connector covers are installed and secured, and that the top cover is closed and secured.
2. Locate two 100-A/50-foot service cables and eight cable carrying straps. Coil each cable into a uniform coil having a diameter no greater than 26 inches. Secure each coil using four cable carrying straps.
3. Locate three 60-A/100-foot power cables and eight carrying straps. Coil each cable into a uniform coil having a diameter no greater than 30 inches. Secure each coil using two cable carrying straps.
4. Locate one 100-A/4-foot pigtail. Ensure dust cap is installed and secured on the cable connector.

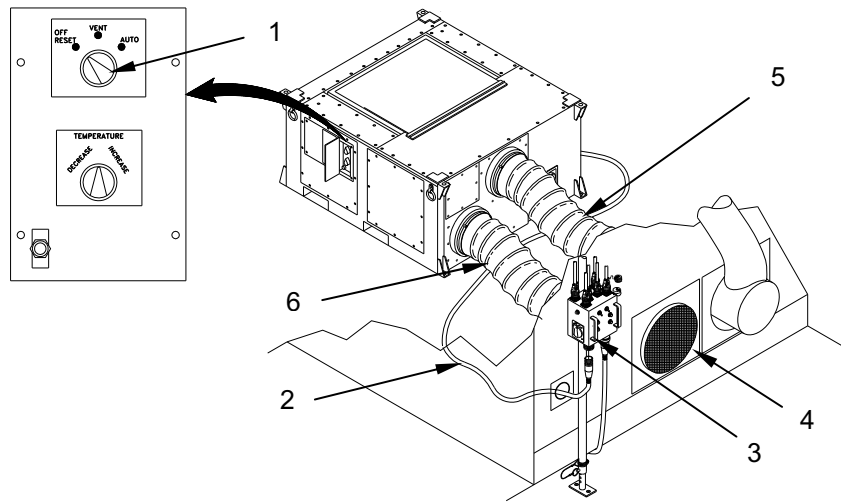
### PREPARATION FOR MOVEMENT OF THE ECU

### NOTE

The following instructions for the preparation for movement of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-4096) is at hand, assemble, shut down and prepare it for movement and packing in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-459) are at hand, use TM 9-4120-411-14. Otherwise, follow the instructions furnished herein.

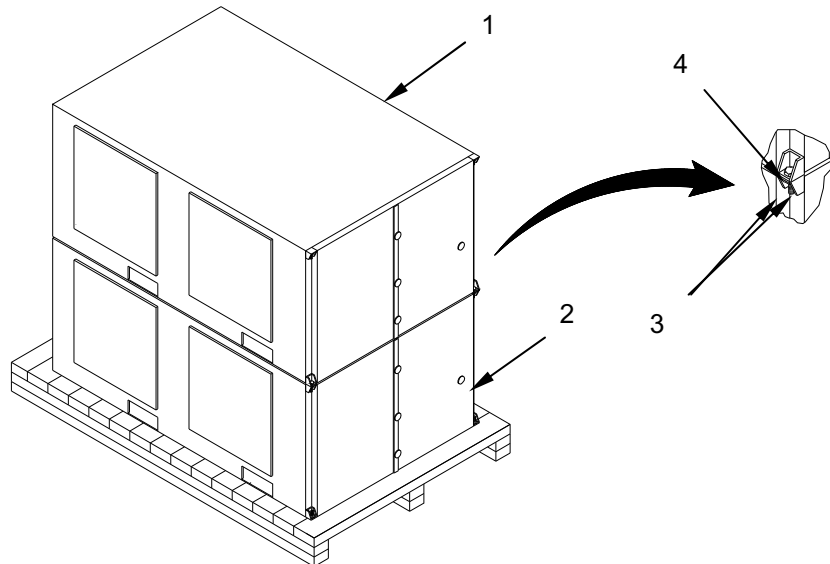
1. Set ECU mode selector switch (1) to OFF- RESET position.
2. Disconnect ECU power cable (2) from POWER OUT receptacle on TEMPER power distribution box (3). Install dust caps on cable and receptacle. Coil cable (2) and store inside condenser compartment storage box.
3. Remove debris screen (4) from return duct.

4. Disconnect ECU supply duct (5) and return duct (6) from TEMPER and ECU. Store ducts in condenser compartment storage box.



Prepare the ECU for movement as follows:

1. Locate two ECU (1) and (2), one with attached pallet and one without. Ensure latches and doors are secured.
2. Remove four mounting bolts, nuts and washers (3) from four unit-to-unit corner mounts (4) of pallet-attached ECU (2).
3. With forklift, position ECU (1) without pallet on top of pallet-attached ECU (2), ensuring both ECU (1) and (2) face the same direction and unit-to-unit mounting holes (4) are aligned. Secure units together with four  $\frac{5}{8}$ -inch x 2-inch bolts, four  $\frac{5}{8}$ -inch nuts and four flat washers (3).



4. Coordinate packing of ECU pallet into TRICON Type 3B with latrine subsystem personnel.

## PREPARATION FOR MOVEMENT OF LAUNDRY TENT EQUIPMENT

The following procedures outline the steps to prepare the laundry tent equipment for movement.

1. Remove equipment from TEMPER and place it outside, near appropriate TRICON (refer to Tables 1 and 2 of WP 0025 00) but do not begin packing containers yet.
2. Clean all components of dirt, debris and corrosion. Dry components thoroughly.

Prepare Equipment for Storage or Shipment as follows:

1. Locate two floormats. Tightly roll each 32-foot floormat individually, and secure roll in two places with tape.
2. Locate four, 6-foot folding tables. Fold each table and place it inside manufacturer's original box, if available, or a fiberboard container 74-inch long x 32.5-inch wide x 9-inch high. Secure each box with tape.
3. Locate sixteen folding chairs. Furnish eleven chairs to shower subsystem personnel for packing into TRICON 4C (Shower ECU Kit). Divide and stack the remaining five chairs into one group of three each and one group of two each. Place a sheet of protective paper between each chair. Place each group of chairs inside manufacturer's original box, if available, or a tightly fitting fiberboard box with exterior dimensions not to exceed 18- inches long x 11-inches wide x 39½ -inches high. Pack adequate dunnage to prevent movement of the chairs within the box. Secure the boxes with tape.
4. Locate two laundry hand trucks. Place a minimum of two wraps cushioning material around wheel assembly. Secure cushioning material in place with tape. Nest one laundry truck, inside the other. Place dunnage in the bottom of the one laundry truck to prevent weight on the wheel assemblies, and the trucks from jamming, and ease separation.
5. Locate three 32-Gallon ash and garbage cans with covers. Create a group of three each ash and garbage cans. Wrap the cans in barrier paper. Nest the cans together in groups of three. Place dunnage in between the cans, as necessary, to prevent cans from jamming together
6. Create a group of three each cover, can, ash and garbage. Separate each cover with protective paper. Locate fiberboard containers with outside dimensions of 21½-inch x 21½-inches x 10-inches. Place a group of three each covers into the container. Close container with tape.
7. Retrieve laundry pins and mesh laundry bags. Place pins and mesh bags into separate fiberboard containers and set aside.

### NOTE

Do not prepare used or soiled cleaning equipment such as brooms and mop heads for packing. Dispose of these items locally.

8. Locate two shovels, one broom, and one mop handle. Wrap each shovel head with a minimum of two wraps of cushioning material. Nest the two shovels together and secure with tape. Wrap the broom head in plastic sheet or protective paper and secure with tape. Wrap each mop handle metal end with barrier material and secure in place with tape.
9. Locate one sledge hammer and one wooden mallet. Wrap sledge hammer head with a minimum of two wraps of cushioning material and secure with tape. Place both the sledge hammer and the mallet inside a fiberboard container with outer dimensions not to exceed 40½-inches long X 10-inches wide x 8-inches high. Fill voids within container using cushioning material to prevent contents from moving.
10. Locate one mop wringer. Place wringer inside original shipping box, if available.

11. Locate one mop handle (unused). Wrap in plastic or barrier paper and secure with tape.
12. Locate one mop bucket (unused). Place into original fiberboard container.
13. Locate one broom (unused). Wrap in plastic or barrier paper and secure with tape.
14. Locate one fire extinguisher. Wrap fire extinguisher in cushioning material and secure with tape. Place each fire extinguisher original shipping box, if available.
15. Locate one garden hose and nozzle. Disconnect the nozzle and wrap both items in barrier material. Seal with tape. Place both items in a plastic bag.

#### **PREPARATION FOR MOVEMENT OF LAUNDRY TEMPER**

Prior to striking the TEMPER, ensure laundry equipment has been removed.

Strike TEMPER in accordance with TM 10-8340-224-13.

#### **NOTE**

Keep TEMPER/Laundry Bootwall separate from other TEMPER components. The boot wall is part of the CBL and will be packed separate from the remaining TEMPER components into ISO Container 2C.

TEMPER Components must be internally and externally cleaned of dirt, debris and corrosion, and dried thoroughly, before packing. Separate the TEMPER/CBL Bootwall from the rest of the TEMPER components for shipment with the CBL. Prepare TEMPER equipment for packing as follows:

1. Exterior Fabric Components and Vinyl Liners. Sweep loose dirt from both sides of each fabric section and clean with a scrub brush and warm soapy water. Rinse with clean water and allow fabric to completely air dry.
2. Cloth Liners. Do not launder liners. Sweep loose dirt from both sides of each liner. Allow liners to completely air dry.
3. Frame Components. Clean with steam cleaner or pressurized washer, and scrub brush. Allow frame sections to completely air dry.
4. Electrical Cable Assemblies. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and allow cables to completely air dry.
5. TEMPER Electrical Distribution Box. Clean the external surfaces with a clean, damp rag. Ensure all dust caps are installed and secure.
6. Double Bump-Through Doors. Sweep loose dirt from both sides of each fabric section and clean with a scrub brush and warm soapy water. Rinse with clean water and allow fabric to completely air dry.

#### **PREPARATION FOR MOVEMENT OF 3000-GALLON TANK**

#### **NOTE**

Two, 3000-Gallon Collapsible Water Tanks are furnished for use as an alternate water source for the laundry subsystem. If this equipment was not used and is still stored in its original packaging in TRICON 2A, no preparation is necessary.

The following procedures outline the steps to prepare the 3000-Gallon Water Tank equipment for movement.

1. As applicable, locate two each tank assemblies. Each tank consists of the following components:

**Table 1. 3,000-Gallon Tank Assembly Components.**

Item	NSN/Part Number(Cage)	Quantity
Tank, fabric, Collapsible, 3000-Gal	5430-01-470-7380 or 5430-01-469-8744 3-k-w-o-a/z (1DFD0)	1
Ball valve, 2 inch	N/A/32-108-01 (63711)	2
Protector, ball valve	N/A/8016 (1DFD0)	1
Ground Cloth	N/A/Gta-03-ot/pw-03(0CBB4)	1
Repair kit, collapsible Drum	8110-00-856-6244/52255 (84583)	1
Technical Manual TM 10-5430-273-12&P	N/A	1

2. Locate two each ball valves, 2-inch, and one each ball valve protector. Wrap each item in a minimum of two wraps of cushioning material, covering the item. Secure cushioning material in place with tape. Wrap each item in barrier material.
3. Locate repair kit, collapsible drum. Wrap repair kit components into plastic bag. Wrap into barrier material. If provided place Repair kit into carrying/storage pouch.
4. Locate technical manual, Tank Assembly, Fabric, 3000-Gallon TM 10-5430-273-12&P.
5. Locate tank, fabric, collapsible and ground cloth. Unroll the fabric tank on a clean flat surface. Ensure that the tank is clean and dry.
6. Wrap the fittings with barrier material and secure with tape.
7. Place a minimum of two wraps of cushioning material over fittings and secure with tape.
8. Place a piece of cardboard over each fitting to protect the bag when rolled up.
9. Neatly fold the tank and roll into a tight bundle 36-inch x 24-inch x 18-inch.

**PREPARATION FOR MOVEMENT OF SEWAGE EJECTION PUMP, WASTE WATER EVACUATION**

**NOTE**

The SEP is furnished for discretionary use in situations where the organic waste water evacuation capacity of the CBL is insufficient due to the length of evacuation distance, or where insufficient gravity flow exists in the waste water collection system. If this equipment was not used and is still stored in its original packaging in TRICON 2B, no preparation is necessary.

The following procedures outline the steps to prepare the SEP equipment for movement.



**WARNING**

The SEP tank and all components must be thoroughly steam cleaned, disinfected and allowed to completely dry before components are prepared for packaging to prevent contamination and infection to exposed personnel.



1. Remove tank cover. Spray P14 preservative into the pump through the output port.
2. Locate the heating element and float switch in the tank. Wrap heating element and float switch in barrier material and secure with tape. Place a minimum of two wraps cushioning around each item. Secure cushioning material in place with tape.
3. Secure heating element and float switch from movement inside the sewage ejection pump, waste water evacuation tank with twine.
4. Install all dust caps and plugs, as required, onto plumbing fittings and couplings. Place a minimum of two wraps cushioning material around each item. Secure cushioning material in place with tape.
5. Place each wrapped item in a close fitting, heat sealed Bag using barrier material. Place couplings and fittings into a fiberboard container. Close the container with tape.
6. Locate Technical Manual, Sewage Ejection Pump, TM 10-4630-206-12&P. Place the TM in a single bag made with barrier material and secure with tape. Place box and technical manual inside sewage ejection pump, waste water evacuation tank. Secure in place. Fill voids between pump and tank walls with honeycomb to prevent movement during transportation.
7. Wrap the connectors on each end of the power cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.
8. Replace and secure cover.

#### **FIELD PACKING LAUNDRY TENT KIT TYPE 2A**

This paragraph provides information to pack equipment into TRICON Type 2A. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON, Type 2A. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

#### **Pertinent References:**

For a complete inventory of TRICON Tent Kit Type 2A refer to Table 1, WP 0025 00.  
For information and illustrations of TEMPER components refer to TM 10-8340-224-13.  
For information and illustrations of PDISE-M100 and associated components refer to TM 9-6150-226-13.  
For information and illustrations of other laundry components refer to WP 0087 00.  
For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
Equipment must be clean, dry, and debris-free before packing.

To prepare Tent Bundle #1, locate the following items:

**Table 2. Tent Bundle #1.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Window Section, D/T	2
Line, Tent	8
Slip, Tent Line	8
Tent Fly, 16-foot, D/T	1
Line, Tent	6
Slip, Tent Line	6
End Section, D/T	1
Line, Tent	2
Slip, Tent Line	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38 inches long by 38 inches wide, plus or minus 2 inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent, Bundle 1 of 4".

To prepare Tent Bundle #2, locate the following items:

**Table 3. Tent Bundle #2.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Window Section, D/T	1
Line, Tent	4
Slip, Tent Line	4
Tent Fly, 16-foot, D/T	1
Line, Tent	6
Slip, Tent Line	6
End Section, D/T	1
Line, Tent	2
Slip, Tent Line	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., "Tent, Bundle 2 of 4".

To prepare Tent Bundle #3, locate the following items:

**Table 4. Tent Bundle #3.**

Item	Quantity
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2
Plenum End Wall	1
Plenum Extendable, 16-foot	1

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., Tent, Bundle 3 of 4.

To prepare Tent Bundle #4, locate the following items:

**Table 5. Tent Bundle #4.**

Item	Quantity
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2
Vestibule with Door, TEMPER	2
Line, Tent	8
Slip, Tent Line	8
Vestibule Floor, Single Ply	2

6. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
7. Place tent cover on clean flat surface.
8. Neatly stack each item one on top of each other in the center of one of the tent covers.
9. Tightly wrap bundle inside the tent cover. Secure tent cover.
10. Bundle sequential identification stencil must be visible, i.e., Tent, Bundle 4 of 4.

To prepare End Section Frame Assembly Bundles, locate the following items:

**Table 6. End Section Frame Assembly.**

Item	Quantity
Arch Assembly	2
Transport Storage Cover	1
Header Assembly	2
Purlin Assembly	5
Eave Extender	4
Ridge Extender	2

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98.5-inches long x 17- inches wide x 8-inches tall.

To prepare the Window Section Frame Assembly Bundles, locate the following items:

**Table 7. Window Section Frame Assembly.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender	1
Transport Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover and close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 14-inches wide x 8-inches tall.

To prepare the Door Section Frame Assembly Bundle, locate the following items:

**Table 8. Door Section Frame Assembly.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	3
Eave Extender Assembly	2
Ridge Extender	1
Transport Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover and close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98.5-inches long x 17-inches wide x 6-inches tall.

Locate three Vestibule Frame Assemblies, each consisting of the following components:

**Table 9. Vestibule Frame Assemblies.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

1. Locate one vestibule frame container.
2. Place three (3) vestibule frame assemblies inside the vestibule frame container. Place cushioning material between any metal parts that contact each other in the container. Secure with tape.

To prepare the tent pins for packing, proceed as follows:

1. Locate two fabric tent pin containers and place 15 each 24-inch wood tent pins in each box. Secure containers with tie provided.
2. Locate two fabric tent pin containers and place 25 each 12-inch steel tent stakes in each container. Secure containers with tie provided.
3. Locate, or fabricate, two wooden tent pin boxes (9-1-0076 (81337)). Place 30 each 18-inch steel tent pin inside each box. Secure each box with nails and steel strapping.
4. Locate two containers, tent pin. Place 15 each 24-inch wood tent pins into each container. Secure each container with tie provided.

Locate 4 each fluorescent light sets. Place each light set into an original manufacturer's box, if available, or a fiberboard box with exterior dimensions not to exceed 75½-inches long x 22-inches wide x 7-inches high. Close boxes with tape.

Locate one each TEMPER distribution box stands and wrap both ends with cushioning material. Secure with tape. Wrap fiberboard around the center mounting plate and secure it in place with tape.

Locate two each TEMPER convenience outlet assemblies, 3-drop. Wrap each convenience outlet in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.

To prepare the TEMPER Distribution Box Assembly, locate the following items:

**Table 10. TEMPER Distribution Box Assembly.**

Item	Quantity
TEMPER Electrical Distribution Box	1
Cable Assembly, Light, 173-in	1
Cable Assembly, Light, 103-in	1
Cable Assembly, Outlet, 254-in	2
Cable Assembly, Outlet, 156-in	2

1. Record the serial number of the distribution box.
2. Completely wrap the temper electrical distribution box in cushioning material. Secure cushioning material in place with tape.
3. Wrap the temper electrical distribution box in barrier material. Secure in place with tape.
4. Record serial number on outside of wrapped distribution box.
5. Wrap the connectors on each end of the cables in two layers of cushioning material and secure in place with tape.
6. Wrap each connector end in barrier material. Secure in place with tape.
7. Coil each assembly and secure with twine or cable ties.

Obtain thirteen each foot lockers from the billeting subsystem and pack as follows:

1. Locate one each footlocker. Place two each TEMPER convenience outlets (3 drop) and one each TEMPER electrical distribution box, into the footlocker.
2. Locate one each footlocker. Place one each mop wringer and one each mop head (unused), as previously prepared, into the footlocker.
3. Locate one each footlocker. Place one each fire extinguisher, one each garden nozzle, three each laundry pin containers, as previously prepared, and the TEMPER Manual, inside the footlocker.
4. Locate seven footlockers. Place three each bundles of mesh bags into six of the trunk lockers and place two each bundles of mesh bags, as previously prepared, in the seventh footlocker.
5. Locate the remaining three each footlockers. Secure the lids, including the footlockers prepared in 1 through 4., above and place each locker inside original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inches long x 21-Inches wide x 13-inches high may be used. Secure boxes with tape. Stack the lockers in a central location.

Locate two each 60-A/100-foot power cables, as previously prepared and pack as follows:

1. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material. Secure in place with tape. Ensure each cable coil diameter is not greater than 30 inches.
2. Place each of the coiled cable assemblies into the manufacturer's original box, if available, or a fiberboard container with the outer dimensions of 32.5-inches long x 32.5-Inches wide x 9- inches high. Secure boxes with tape.

Locate one Electrical Feeder System PDISE M-100, as previously prepared, and pack as follows:

1. Ensure that all connector covers on PDISE-M100 are installed and secured.
2. Wrap PDISE with cushion material and secure with tape.
3. Wrap PDISE with barrier material and secure with tape.
4. Place wrapped PDISE into original shipping, or appropriate replacement fiberboard container.
5. Place TM 9-6150-226-13 into container with PDISE and close the container with tape.
6. Locate two 100-A/50-foot service cables and one 4-foot/100A pigtail assembly, as previously prepared.
7. Wrap connectors of cable and pigtail assemblies with cushioning material and secure with tape. Wrap connectors with barrier material and secure with tape.
8. Coil each cable and the pigtail assembly into a uniform coil with a diameter no greater than 26-inches.
9. Locate eight cable carrying straps and secure each 50-foot cable coil with four straps.

**Packing Procedures for TRICON Type 2A**

The following materials and items are required to pack TRICON 2A:

**Table 11. TRICON Type 2A Packing Materials.**

Item, NSN	Qty
Pad, energy dissipating, 3in thick (honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2 x 6 x 75-3/4-inches long	3
Fiberboard sheet 4 x 8-foot	4
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required

Use the following procedures to pack bottom layer of TRICON Type 2A:

1. Locate TRICON with "LAUNDRY TENT KIT; CO. TYPE 2A..." stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate tent bundles 1 through 4 and place them into the TRICON one at a time. Position two bundles in the left rear corner and two in the right front corner as shown. They should be stacked in approximately equal height.
5. Locate two 3000-Gallon fabric tank bundles and place one bundle in the right rear corner as shown. Place the second bundle in the front left corner as far back as possible.

6. Locate tent pin boxes 1 and 2 and place them on the floor in front of the tent bundles. Place the remaining two tent pin containers in this area as well.
7. Locate and place the PDISE box in front of the two tent bundles and on top of the tent pin boxes, tight to the left and rear TRICON walls. Place the 100-A/50-foot cables on the tent bundles. Do not pack the 100-A/4-foot pigtail at this time.
8. Locate the chair boxes and place them on the left side floor in front of the 3000-Gallon tank bundle as shown. Install the lower 2-inch x 6-inch x 75<sup>3</sup>/<sub>4</sub>-inch lumber brace across the front of the TRICON at this time to support the tank and tent bundles.
9. Locate the two tent pin containers with fifteen 24-inch wood stakes that are part of the Type XIX tent kit and place them between the chair boxes and the PDISE box.
10. Locate two additional tent pin containers with fifteen 24-inch wood stakes and place them between the chair boxes and the PDISE box as well.
11. Locate two rolled up floor mats previously prepared and place them between the chair boxes and the PDISE box as well.
12. Locate two TEMPER window section frames, two vestibule frame kits, and one each end section and door section frame. Place each frame section, one at a time, from right rear to front Left, diagonally into the TRICON, on top of the 3000-Gallon bundles. Pack the vestibule frame kits on the top of the stack. Use caution and ensure that the stack of frames is flat, stable, and remains centered. The frame sections must not interfere with the 2-inch x 6-inch x 75 <sup>3</sup>/<sub>4</sub>-inch boards that will be placed across the front of the TRICON when packing is complete (or the closing of the TRICON Door.)
13. Locate one TEMPER electrical distribution box stand and stack it in place with the tent frames.
14. Locate one mallet, one sledgehammer, and one mop bucket previously prepared. Also locate one 100-A/4-foot pigtail, and one footlocker. Place these items in the rear left triangular volume created by the tent frames, as shown.
15. Locate one garden hose assembly and one empty footlocker. Place these items in front right triangular volume, as shown, created by the tent frames.
16. Locate two TRICON shelves and four shoring beams. Install the beams so that the bottoms are as low as possible and contact and hold in place the TEMPER fabric bundles and other items on the bottom layer. Ensure that all the beams are connected to the vertical uprights at the exact same height. Install the two shelves on top of the brackets.
17. Locate the remaining eleven footlockers, two shovels, one broom, and one mop handle. Place on the shelf as shown. Ensure that the hazmat label for the one footlocker with the fire extinguisher is visible from the front of the container.
18. Locate two 60-A/100-foot power cable boxes and place them on the shelf on the right side in front of the footlockers.
19. Locate four table boxes and lay them on top of the footlockers in two stacked pairs, lengthwise from front to rear, against the right wall of the TRICON, as shown. Fill voids between the boxes & TRICON walls with dunnage to prevent movement during transport.
20. Locate boxes with two light sets, fluorescent, previously prepared, and place them on top of the table boxes, as shown.
21. Install the remaining shoring beam to hold in the light sets and tables. Install two remaining 2-inch x 6-inch x 75 <sup>3</sup>/<sub>4</sub>-inch lumber across the front of the TRICON at this time to support the items and packaging material as shown.



22. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Use cushioning material to fill voids between the packaged contents. These fillers and dunnage are installed to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
23. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.
24. Close and secure TRICON doors.

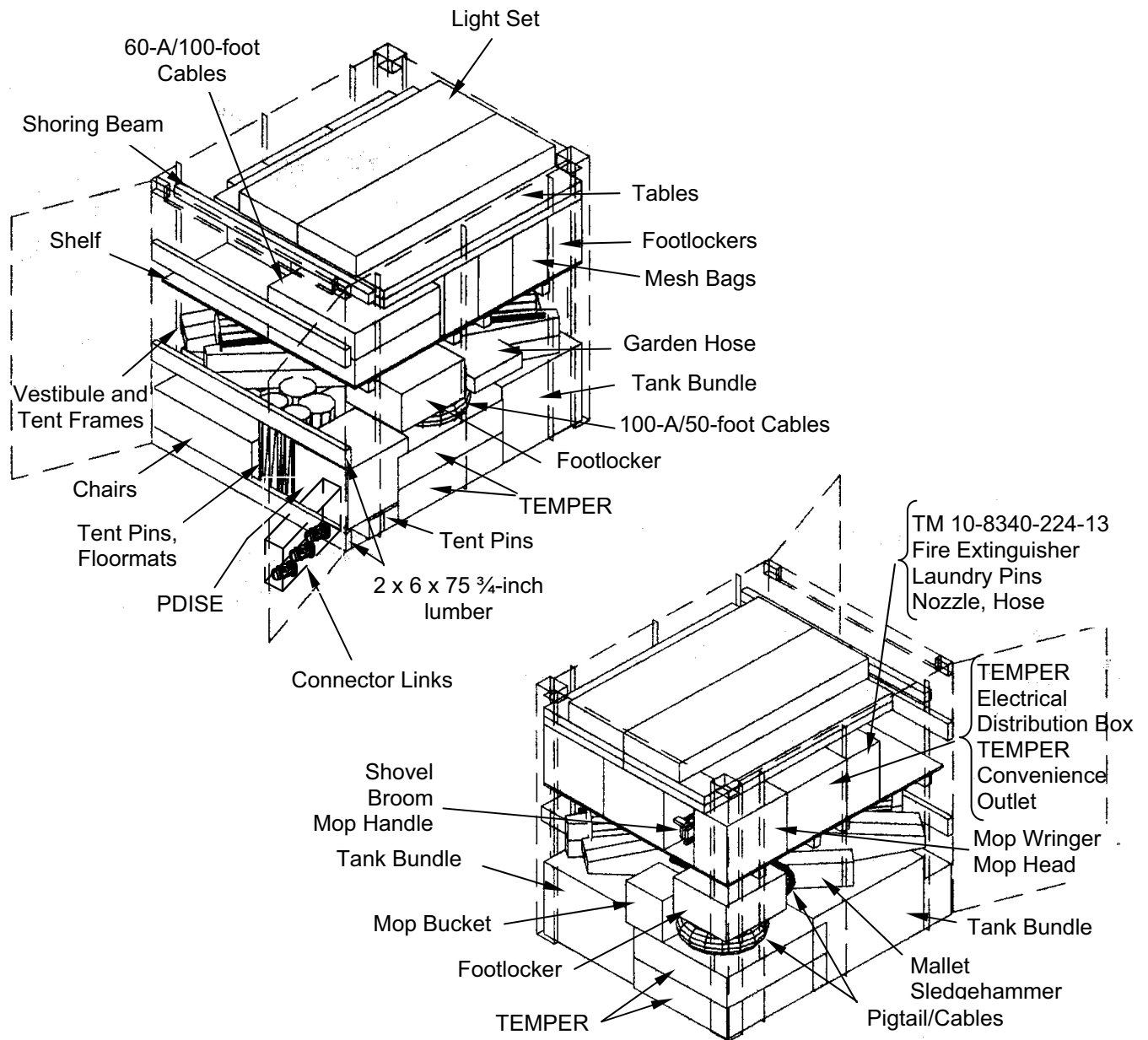


Fig 1. Field Packing Laundry Tent Kit Type 2A.

**FIELD PACKING LAUNDRY KIT TYPE 2B**

This paragraph provides information to pack equipment into TRICON Type 2B. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one of o identical TRICON Type 2B. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment for storage or shipment.

**Pertinent References:**

For a complete inventory of TRICON Laundry Kit Type 2B refer to Table 2, WP 0025 00.

For information and illustrations of laundry components refer to WP 0087 00.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

To prepare equipment for packing into TRICON Type 2B, proceed as follows:

1. Locate three each cable, pigtail, 100-A/4-foot and six cable assemblies, 100-A/50-foot, part of the CBL. Wrap the ends of the cables in two layer of cushioning material. Wrap each end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or Nylon cable zip ties.
2. Locate two each power cable assemblies, Tee, 20A and one each power cable, Class L to commercial, 20A. Wrap the ends of the cables in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or Nylon cable zip ties.
3. Locate or fabricate six fiberboard containers with outer dimensions of 32½-inch x 32½-inch x 9-inch. Place the following items prepared in 1. and 2.,above into the containers as follows:

Container #1 Cable assembly, service, 100-A/50-foot (1)  
Cable, power, 20A, Class L to Commercial (1)

Container #2 Cable assembly, service, 100-A/50-foot (1)  
Cable assembly, Tee, 20A (1)

Container #3 Cable assembly, service, 100-A/50-foot (1)  
Cable assembly, Tee, 20A (1)

Container #4 Cable assembly, service, 100-A/50-foot (1)  
Cable assembly, pigtail, 100-A/4-foot

Container #5 Cable assembly, service, 100-A/50-foot (1)  
Cable assembly, pigtail, 100-A/4-foot

Container #6 Cable assembly, service, 100-A/50-foot (1)  
Cable assembly, pigtail, 100-A/4-foot

Secure fiberboard containers with tape.

4. Locate one each cable assembly previously prepared. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material Secure in place with tape. Neatly coil assembly and secure with twine or cable ties. Place assembly into original fiberboard container or new container with outer dimensions of 32½-inch x 32½-inch x 9-inch. Secure container with tape.
5. Locate two each double bump-through doors. Place each door into original fiberboard container or a new container with outside dimensions of 83-inches x 67-inches x 3-inches. Seal container with tape.

## Packing Procedures for TRICON Type 2B

The following materials and items are required to pack TRICON 2B:

**Table 12. TRICON Type 2B Packing Materials.**

Item, NSN	Qty
Pad, energy dissipating, 3in thick (honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inch x 6-inch x 75- <sup>3</sup> / <sub>4</sub> -inches long	1
Fiberboard sheet 4 x 8-foot	2
Special Purpose Web, Tiedown NSN 3990-01-204-3009	4
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Cable tie, nylon 12-inch, NSN 5975-00-985-6630	As required
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4

Use the following procedures to pack bottom layer of TRICON Type 2B:

1. Locate TRICON with "LAUNDRY KIT; CO. TYPE 2B..." stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.



### **WARNING**

The CBL Ramp is heavy. At least two persons are required to lift and carry the ramp to prevent injuries.

1. Locate the CBL ramp and place it on the floor of the TRICON in the right rear corner. Place a sheet of fiberboard on top of the ramp. Trim excess fiberboard.
2. Locate one each special purpose web, tiedown. Attach the non-ratchet end to the lower rear tiedown loop on the right side of the TRICON. Place ends of straps out of the way to facilitate loading of remaining items.
3. Locate two each laundry trucks and place them upside down, on the ramp, in the right rear corner of the container, as shown.
4. Locate one each drum, shipping and storage, steel, 55-Gallon. Place it in the left rear corner of the container. Place honeycomb material between the drum, laundry truck, and TRICON wall as needed.
5. Secure the tiedown strap over the laundry trucks, and around the drum, as shown. Connect to the opposite tiedown loop.
6. Locate three each special purpose web, tiedown. Attach the non-ratchet end of two special purpose tiedowns to the middle and front, lower corner tiedown loops. Place the non-ratchet end of one special purpose tiedowns to the middle tiedown loop, approximately 24 inches from the floor. Place the straps out of the way to facilitate loading of the TRICON.

7. Locate the sewage ejection pump, waste water evacuation. Position the sewage ejector pump in the front of the container against the left wall, as shown. Place honeycomb material between the sewage ejector pump and the TRICON wall.
8. Secure the sewage ejector pump with the special purpose tiedown straps. Secure one strap around the sewage ejector pump, connecting the ratchet end to the front corner, approximately 24 inches above the floor. Cross two straps over the sewage ejector pump, connecting the ratchet ends to the opposite side of the TRICON.
9. Locate four each shoring beams and two each shelves, shipping and storage. Align and install the shoring beams where marked on the vertical uprights (top and bottom marks). Install the two shelves on top of the brackets.
10. Locate two each power cable assembly , Tee, 20A, one each power cable, Class L to commercial, 20A, three each cable, pigtail, 100-A/4-foot, six each cable assembly, service, 100-A/50-foot, and one each cable assembly, power, 60-A/100-foot packed previously into seven separate fiberboard containers. Place cable assembly boxes on the TRICON shelf as shown.
11. Locate three each cover, can, ash and garbage, packed into one each fiberboard container. Place on top of the cable boxes as shown. Locate the three each can, ash and garbage, 32-Gallon. Place them in front of cable boxes on the left side of container, with open end facing TRICON wall.
12. Locate two each double bump through doors packed in fiberboard containers. Place them on top of cable boxes. Place honeycomb material on top of the boxes as necessary, to provide a level and secure pack.
13. Position filler material to fit next to the trash cans and cable boxes, above doors to prevent movement during transportation. Then place one each 2-inch x 6-inch x  $75\frac{3}{4}$ -inch lumber brace in front of the shelf. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items.
14. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.
15. Close and secure TRICON doors.

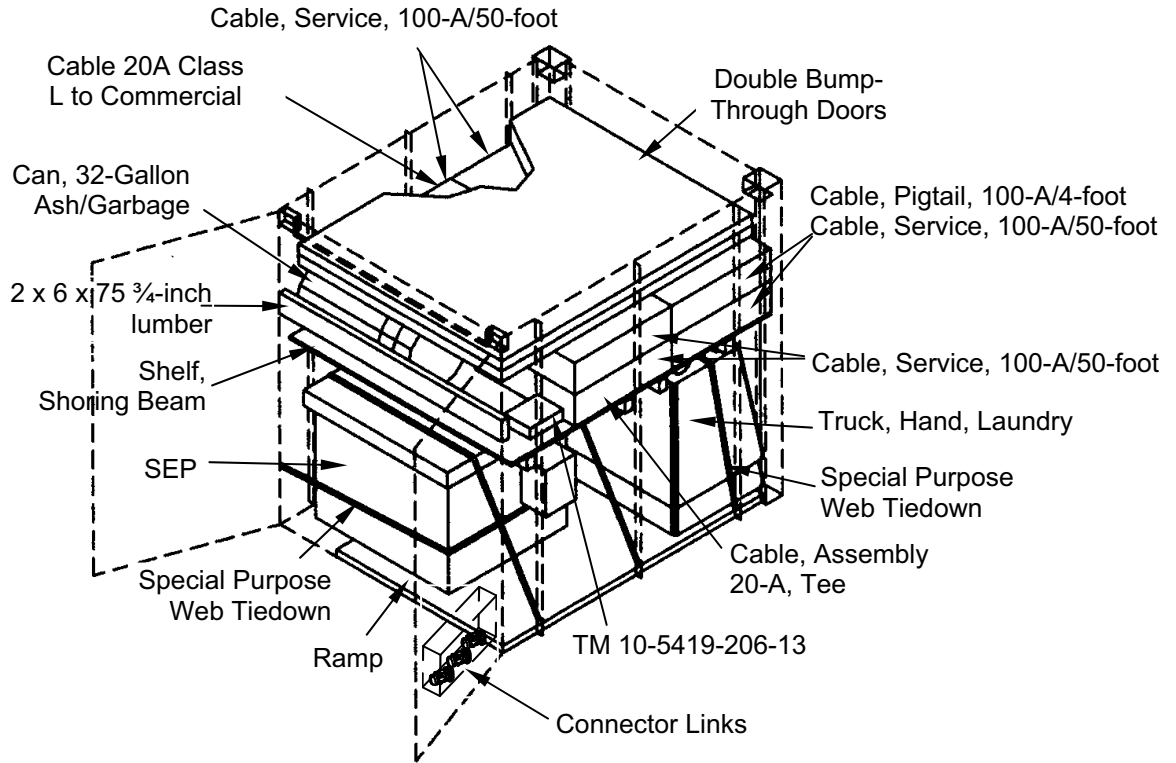


Fig 2. Field Packing Laundry Kit Type 2B.

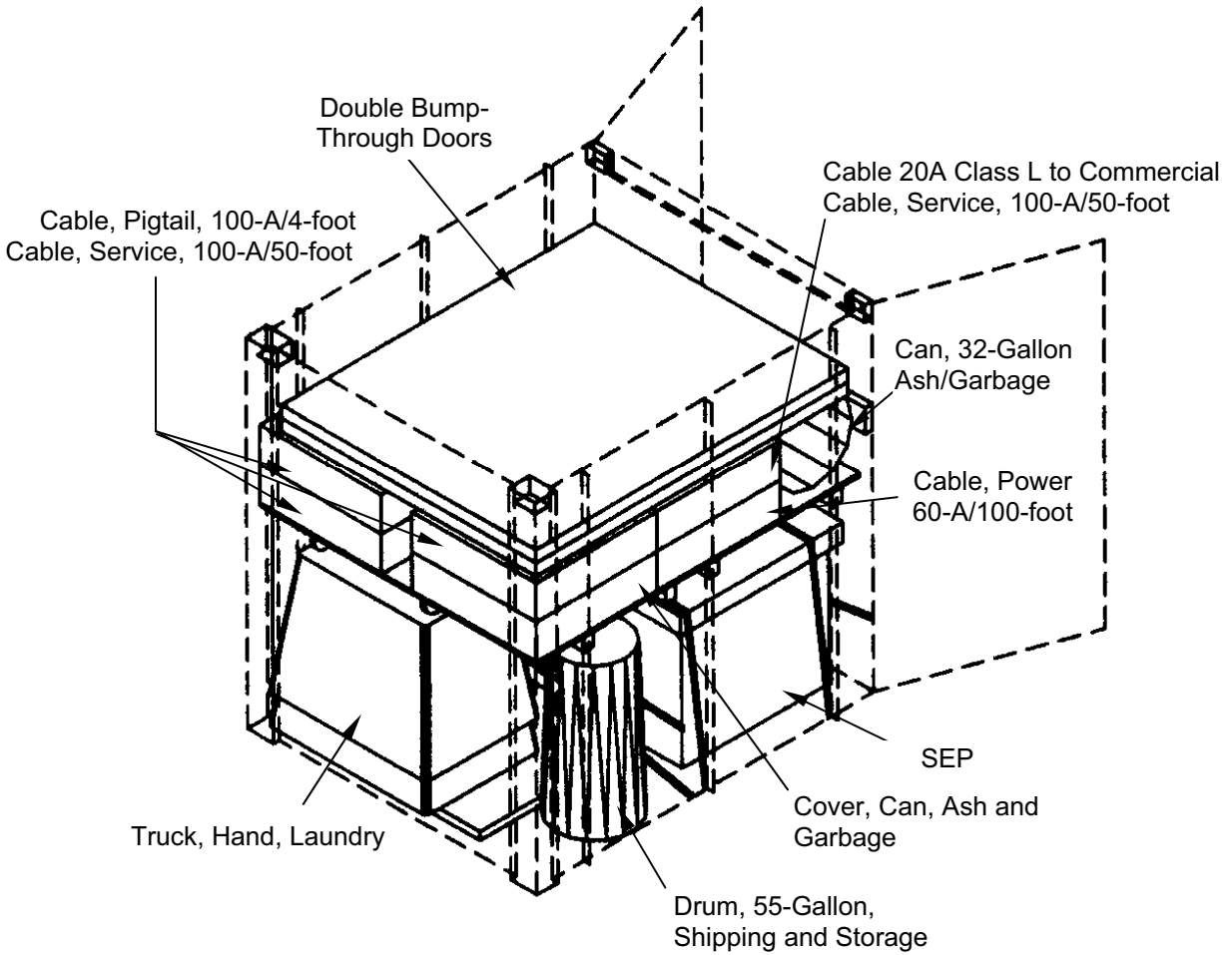


Fig 2. Field Packing Laundry Kit Type 2B - Continued.

**FIELD PACKING CONTAINERIZED BATCH LAUNDRY TYPE 2C (ISO)**

Pack the CBL ISO Container 2C as described in TM 10-3510-225-13&P.

**END OF WORK PACKAGE**

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**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - LATRINE SUBSYSTEM**

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**GENERAL**

Following are instructions for the preparation for movement and field packing of the latrine subsystem equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed. Prepare the CLS (ISO Container 3A) for movement as described in TM 10-4510-209-13&P. Refer to WP 0026 00 and WP 0088 00 for equipment illustrations, as necessary.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Replace damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON covered in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL (TM 10-5419-206-23P, WP 0002 00).

**PREPARATION FOR MOVEMENT OF LATRINE POWER SUPPLY EQUIPMENT**

The following procedures outline the steps to prepare the power supply equipment for movement.



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**WARNING**

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Power supply shall be shut off and disconnected only by qualified personnel. Power source must be shut off and disconnected before attempting to disassemble power supply components. Failure to observe this warning may result in severe injury or death by electrocution.

**NOTE**

One latrine site shares a power with a shower site and the laundry. The second latrine site shares power with the second shower site and the administration subsystem. Before switching circuit breakers on PDISE to OFF, coordinate activity with the other, affected subsystems.

1. Switch all electrical equipment to OFF and set all latrine subsystem circuit breakers to OFF.
2. Set all PDISE circuit breakers, including MAIN, to OFF (Coordinate with shared subsystem).
3. Have qualified personnel shut off power to PDISE. Power source must be shut off and disconnected before attempting to disassemble power supply equipment.
4. Have qualified personnel disconnect 100-A/4-foot pigtail (1) from power source.

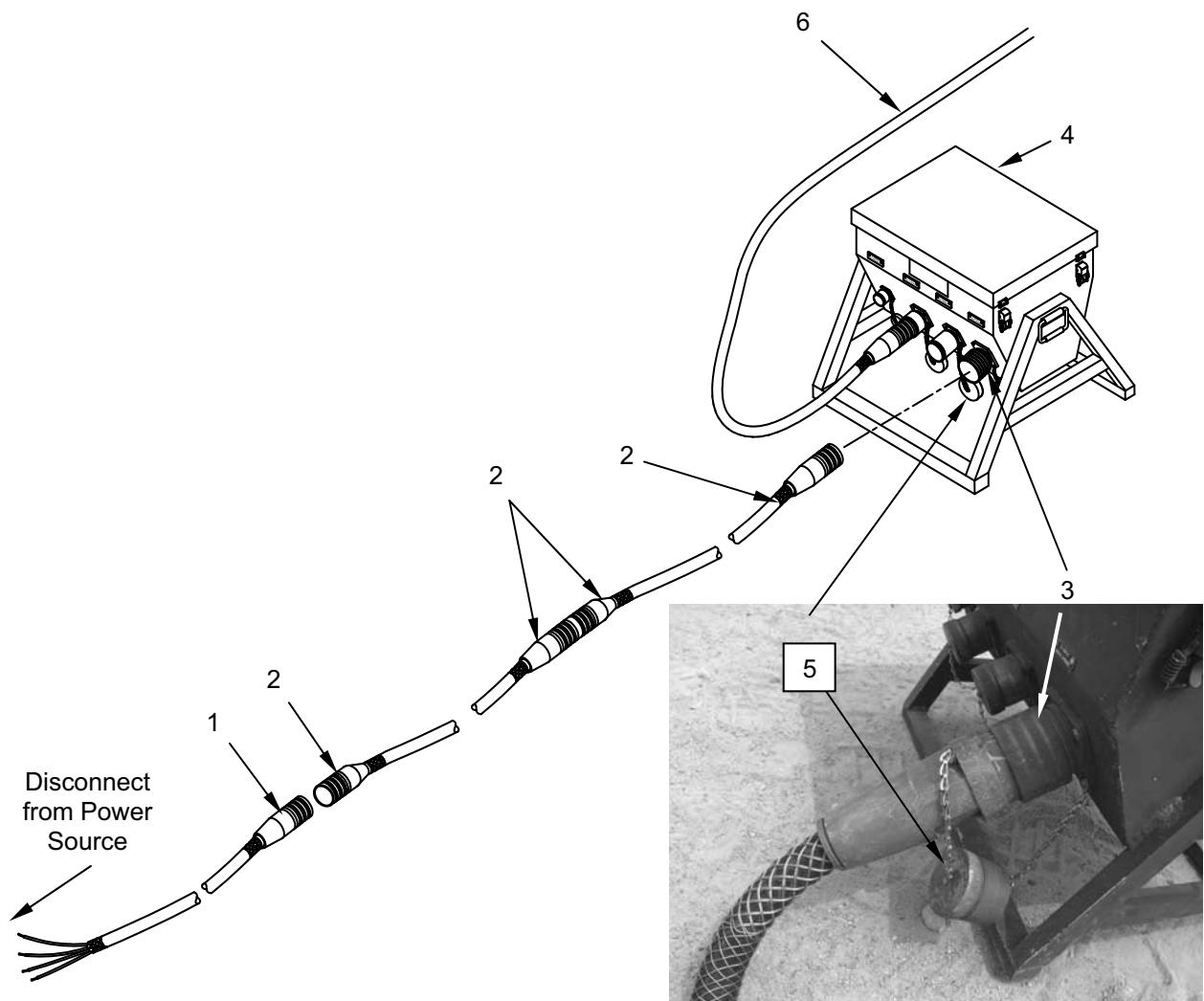
To disassemble the latrine subsystem power supply equipment, proceed as follows:

1. Disconnect 100-A/50-foot service cables (2) from pigtail (1). Install dust caps.
2. Disconnect pair of 100-A/50-foot service cables (2). Install dust caps.
3. Disconnect 100-A/50-foot service cable (2) from J1 connector (3) on PDISE-M100 (4). Install dust cap (5).

4. Disconnect 60-A/100-foot power cables (6) from J3 (7) or J6 connectors on each PDISE-M100 (4). Install dust caps.
5. Disconnect each pair of 60-A/100-foot power cables (6). Install dust caps. Disconnect 60-A/100-foot power cables (6) from the power panel on each containerized latrine (as described in TM 10-4510-209-13&P). Install dust caps.

Power supply equipment must be cleaned of dirt, debris and corrosion. Dry the equipment thoroughly, before packing. Prepare power supply equipment for packing as follows:

1. Service and Power Cables. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and then allow to completely air dry.
2. PDISE-M100. Wipe the external surfaces with a clean, damp rag. Clean the face of PDISE-M100 circuit breaker panel with a dry rag.



Prepare the following cables for packing into TRICON type 3B. Position power supply equipment near TRICON type 3B, but do not begin packing container yet. Procedures for field packing the containers follow later in this WP.

1. Locate one PDISE-M100. Ensure that all connector dust covers are installed and secured, and that the top cover is closed and secured.



2. Locate two 100-A/50-foot service cables and eight cable carrying straps. Coil each cable into a coil having a diameter no greater than 26 inches. Secure each coil with four cable carrying straps.
3. Locate four 60-A/100-foot power cables and eight carrying straps. Coil each cable into a uniform coil having a diameter no greater than 30 inches. Secure each coil using two cable carrying straps.
4. Locate one 100-A/4-foot pigtail. Ensure dust cap is installed and secured on the cable connector.

## PREPARATION FOR MOVEMENT OF ECU

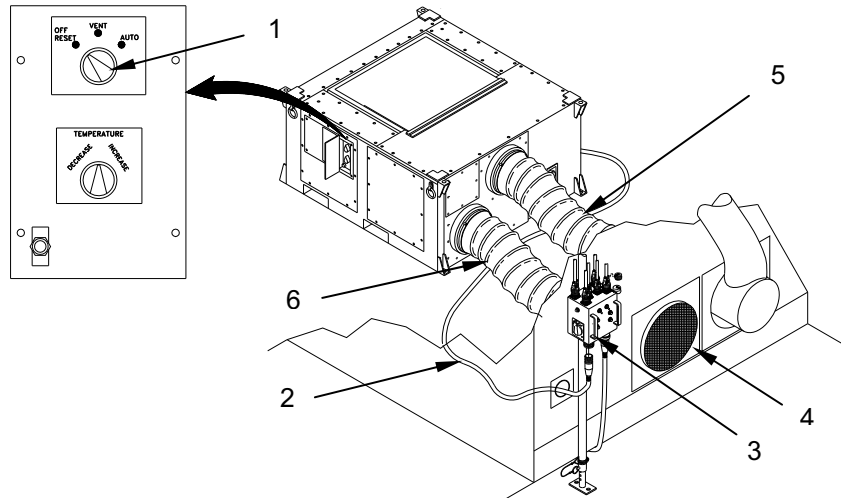
### NOTE

The ECUs to be packed into TRICON 3B are used with the laundry subsystem. The following tasks to shut down, service, and remove the ECUs from the laundry TEMPER in preparation for packing should be coordinated between laundry and latrine subsystem personnel.

### NOTE

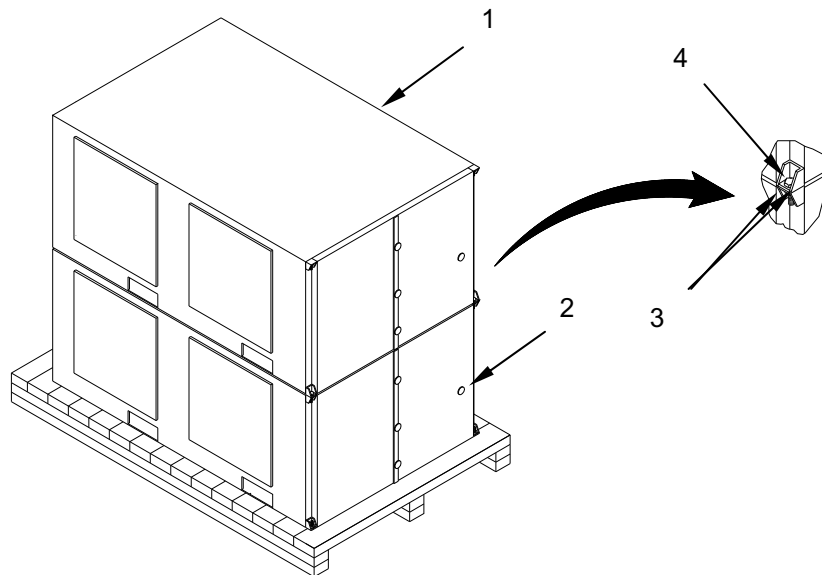
The following instructions for the preparation for movement of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-4096) is at hand, assemble, shut down and prepare it for movement and packing in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-459) are at hand, use TM 9-4120-411-14. Otherwise, follow the instructions furnished herein.

1. Set ECU mode selector switch (1) to OFF- RESET position.
2. Disconnect ECU power cable (2) from POWER OUT receptacle on TEMPER power distribution box (3). Install dust caps on cable and receptacle. Coil cable (2) and store inside condenser compartment storage box.
3. Remove debris screen (4) from return duct.
4. Disconnect ECU supply duct (5) and return duct (6) from TEMPER and ECU. Store ducts in condenser compartment storage box.



Prepare the ECU for movement as follows:

1. Locate two ECU (1) and (2), one with attached pallet and one without. Ensure latches and doors are secured.
2. Remove four mounting bolts, nuts and washers (3) from four unit-to-unit corner mounts (4) of pallet-attached ECU (2).
3. With forklift, position ECU (1) without pallet on top of pallet-attached ECU (2), ensuring both ECU (1) and (2) face the same direction and unit-to-unit mounting holes (4) are aligned. Secure units together with four  $\frac{5}{8}$ -inch x 2-inch bolts, four  $\frac{5}{8}$ -inch nuts and four flat washers (3).



4. Pack ECU pallet into TRICON Type 3B as described under FIELD PACKING LATRINE ECU KIT TYPE 3B in this WP.

**PREPARATION FOR MOVEMENT OF WWET/T**

Prepare the WWET/T for movement as described in TM 10-4630-207-13&P.

**PREPARATION FOR MOVEMENT OF FLOODLIGHT EQUIPMENT**

Prepare the 1,000W and 2,000W Floodlights and associated equipment for movement as described in WP 0051 00.

**FIELD PACKING LATRINE ECU KIT TRICON TYPE 3B**

This paragraph provides information to pack equipment into TRICON type 3B. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into the container, and maintain uniformity of similar TRICON. The following procedures are for field packing one of two identical TRICON, Type 3B. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 3B refer to Table 1, WP 0026 00.

For information and illustrations of PDISE-M100 and associated components refer to TM 9-6150-226-13.

For information and illustrations of other latrine components refer to WP 0088 00.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

Prepare remaining equipment (ECUs were prepared for shipment as described previously in this WP under PREPARATION FOR MOVEMENT OF ECU) for packing into TRICON Type 3B, as follows:

1. Locate fifteen folding chairs and stack in three groups of four and one group of three. Place protective paper between each chair. Pack each group of chairs in the original shipping container, or a replacement fiberboard container with exterior dimensions not to exceed 18-inches long x 11-inches wide x 39½-inches high. Use filler material for partially empty boxes. Close boxes with tape.
2. Locate one pair of cotton glove inserts and two debris screens. Wrap these items in barrier material. Locate one footlocker and place wrapped items inside. Close and pack footlocker as described in 4 below.
3. Locate one Tee assembly, 1½-inch FC X FC X FC, one wrench, adjustable, 10½-inches long, and two gaskets, coupling half, QDISC, CAM-LOCK, 4-inch. Wrap these items in barrier material. Locate one footlocker and place wrapped items inside. Close and pack footlocker as described in 4 below.
4. Locate ten footlockers, secure the lids and place each locker inside original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inches long x 21-inches wide x 13-inches high may be used. Close boxes with tape. Stack the lockers in a central location.
5. Locate remaining boxes of paper, toilet tissue (not more than five). Close boxes with tape.
6. Locate two 60-A/100-foot Power Cable Assemblies and prepare as follows:
  - a. Wrap the connectors on each end of the cable in two layer of cushioning material and secure with tape.
  - b. Wrap each connector end in barrier material and secure with tape.
  - c. Neatly coil each assembly and secure with twine or cable ties.

- d. Coiled assemblies should fit two (2) each into original shipping fiberboard container. Other fiberboard containers with the outer dimensions of 32½-inches long x 32½-inches wide x 9 inches high can also be used. A fiberboard liner shall be placed against the inside box walls.
7. Locate the Electrical Feeder System PDISE M-100 and prepare as follows:
- a. Ensure that all connector covers are installed and secured.
  - b. Wrap PDISE with cushion material and secure with tape.
  - c. Wrap PDISE with barrier material and secure with tape.
  - d. Place wrapped PDISE into original shipping, or appropriate replacement fiberboard container.
  - e. Place TM 9-6150-226-13 into container with PDISE and close the container with tape.
  - f. Locate two 100-A/50-foot service cables and one 4-foot/100A pigtail assembly.
  - g. Wrap connectors of cable and pigtail assemblies with cushioning material and secure with tape. Wrap connectors with barrier material and secure with tape.
  - h. Coil each cable and the pigtail assembly into a uniform coil with a diameter no greater than 26-inches.
  - i. Locate eight cable-carrying straps and secure each 50-foot cable coil with four straps.

**Packing Procedures for TRICON Type 3B**

The following packing materials and other items are required to pack TRICON 3B:

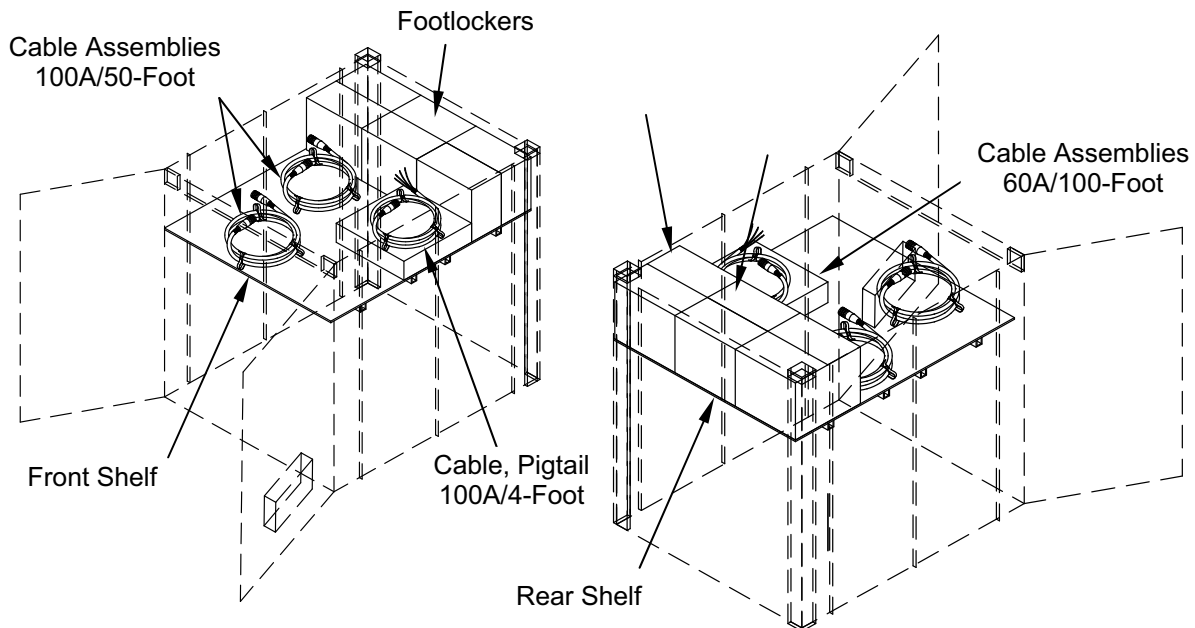
**Table 1. TRICON Type 3B Packing Materials.**

Item/NSN	Qty
Pad, energy dissipating, 3in thick (honeycomb), NSN 1670-00-753-3928, as required	As required
Lumber, 2 x 6 x 75-3/4-inches long	1
Special Purpose Web, Tiedown NSN 3990-01-204-3009	4
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Corrugated Fiberboard Stock, ASTM-D4727	As required
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required

Use the following procedures to pack bottom layer of TRICON type 3B:

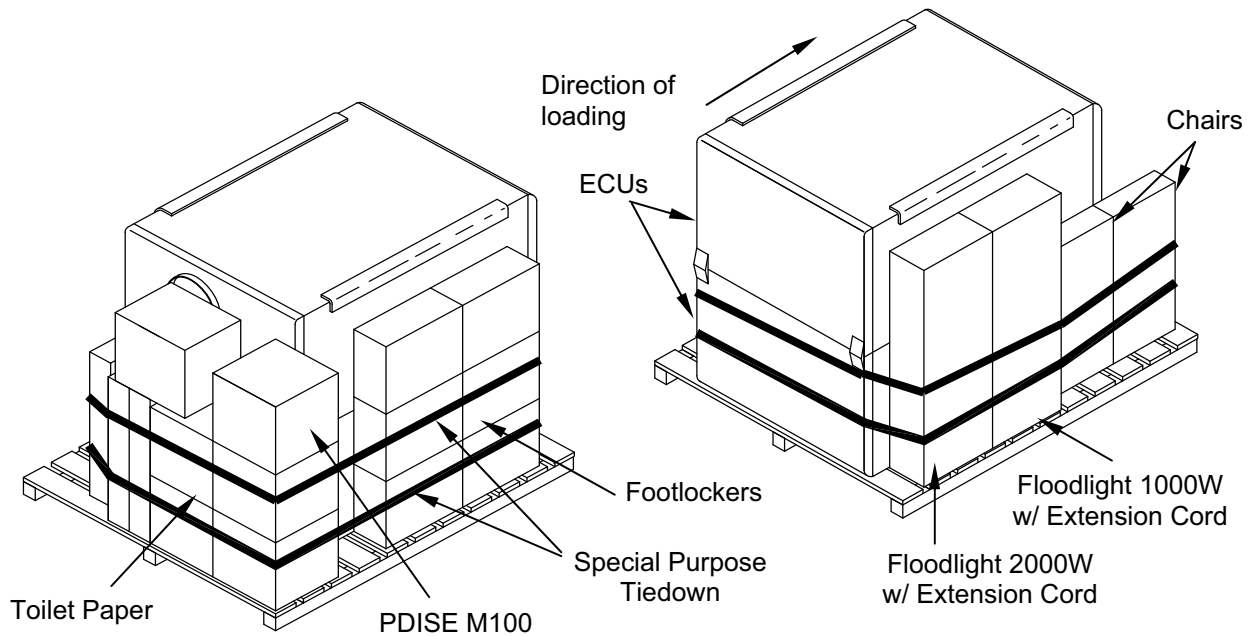
1. Locate TRICON with "LATRINE ECU KIT; CO. TYPE 3B..." stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Install the rear two upper shelf supports. Install the shelf supports so that the distance from the floor to the shelf bottom is 74-inches. Place one shelf on the supports, to the rear of the container. Install one layer of honeycomb dunnage between the knuckles at the rear of the container, above the shelf to provide a flush surface at the rear of the container, above the shelf.

4. Place three footlockers on the shelf, all the way against the rear container wall. Ensure that item markings are facing forward.
5. Place one footlocker containing items prepared in paragraph 2 of the field packing instructions above, in front of the first row of footlockers against the right sidewall of the TRICON.
6. Place one footlocker containing items prepared in paragraph 3 of the field packing instructions above, in front of the first row of footlockers in the center.
7. Place one footlocker in front of the first row of footlockers against the left sidewall of the TRICON.
8. Install front two shelf supports at the same height as the two existing and place one shelf against the rear shelf to provide one level surface at the same height.
9. Place two power cable assemblies, 60-A/100-foot long packed previously in a single fiberboard container, on the self in front of the footlockers. Place against the right side wall of the TRICON.
10. Locate two service cable assemblies, 100-A/50-foot, and one pigtail cable, 100-A/4-foot. Place the two 100-A/50-foot service cable coils on the self in front of the trunk lockers, on the left side of the TRICON. Place the 100-A/4-foot pigtail cable on top of the 60-A/100-foot power cable assembly.
11. Fill voids with honeycomb dunnage to ensure that items will not shift during transport. Install one 2-inch x 6-inch piece of lumber in front, fitted to the dunnage to prevent forward movement of the boxes and dunnage on the shelf.



12. Locate one ECU-pallet, with two ECUs assembled previously. Place boxes of toilet tissue paper on the left side rear of the ECU pallet. If no tissue is being packed, be prepared to fill this space with dunnage.
13. Locate four boxes containing folding chairs. Place two boxes upright on the right side rear next to the boxes of toilet tissue. Place the remaining two boxes on the right side of the ECU pallet.
14. Locate one box of 1,000W floodlights (PUL-1000Q) and one box of 2,000W floodlights (PUL-2000Q) with extension cords, 50-foot, as prepared previously. Place boxes upright, on the right side front, of ECU pallet.

15. Locate the electrical feeder center PDISE-M100, previously prepared. Place the box on top of the toilet tissue boxes.
16. Locate six footlockers. Place on left side of ECU pallet. Form three rows of two each as shown.
17. Secure items placed on ECU pallet with two special purpose tiedown straps.
18. Locate two special purpose web tiedowns. Connect the un-ratcheted ends of the tiedowns to the rear tiedown loops approximately three feet above the TRICON floor. Temporarily locate tiedown straps out of the way to facilitate loading of the ECU pallet into the container.
19. Position the ECU pallet inside the TRICON. Block and brace between the skid and TRICON side and rear walls as necessary to prevent side-to-side or lateral movement. Cross the tiedown straps over the ECU's and fasten the ratcheted ends to the loops at the front of the TRICON, approximately two feet above the floor. Ensure that the straps are properly tightened, are not twisted, and/or caught up on any obstruction.









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**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - SHOWER SUBSYSTEM**

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**GENERAL**

Following are instructions for the preparation for movement and field packing of the shower subsystem equipment. Use applicable portions of this WP, as determined by the equipment to be prepared and packed. Refer to WP 0027 00 and WP 0089 00 for equipment illustrations, as necessary. Prepare the CSS (ISO container 4A) for movement as described in TM 10-4510-208-13&P.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Obtain replacement of damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL (TM 10-5419-206-23P, WP 0002 00).

**NOTE**

Before utilities are disconnected in preparation for movement, the interior of the CSS as well as the shave stands in the TEMPER must be thoroughly cleaned, and the graywater holding tank flushed. Refer TM 10-4510-208-13&P to for instructions.

**PREPARATION FOR MOVEMENT OF POWER SUPPLY EQUIPMENT**

The following procedures outline the steps to prepare the power supply equipment for movement.

1. Switch TEMPER electrical equipment to OFF and set TEMPER power control switch to OFF.
2. Switch the CSS circuit breakers to OFF. (Refer to TM 10-4510-208-13&P.)
3. Set all PDISE-M100 circuit breakers, including MAIN, to OFF.



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**WARNING**

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Power supply shall be shut off and disconnected only by qualified personnel. Power source must be shut off and disconnected before attempting to disassemble power supply equipment. Failure to observe this warning may result in severe injury or death by electrocution.

4. Have qualified personnel shut off power to PDISE. Power source must be shut off and disconnected before attempting to disassemble power supply equipment.
5. Have qualified personnel disconnect 100-A/4-foot pigtail from power source.

To disassemble the power supply equipment, proceed as follows:

1. Disconnect 100-A/50-foot service cable on the power source side of the PDISE-M100 from the pigtail. Install dust caps.
2. If more than one cable was used, disconnect 100-A/50-foot service cables on the power source side of the PDISE-M100. Install dust caps.
3. Disconnect 100-A/50-foot service cable from J1 connector on the PDISE-M100. Install dust caps.

4. Disconnect 60-A/100-foot power cable from J3 connector on the PDISE-M100. Install dust caps.
5. If more than one cable was used, disconnect 60-A/100-foot power cables. Install dust caps.
6. Disconnect 60-A/100-foot power cable from the 60-A/3-Phase Input connector on the CSS power panel. Install dust caps.
7. Disconnect 60-A/100-foot service cable from the J6 connector on the PDISE-M100. Install dust caps.
8. If more than one cable was used, disconnect 60-A/100-foot power cables. Install dust caps.
9. Disconnect 60-A/100-foot service cable from J1 connector on TEMPER electrical distribution box. Install dust caps.
10. Disconnect the power cords of the M80 Water Heater and the water pump assembly from the 20-A Tee extensions.
11. Disconnect the 20-A Tee stem from the 20-A 120/208V connector on the CSS power panel.
12. Disconnect the CSS exhaust fan power cord from the 20-A connector on the CSS power panel.
13. If the SEP was used, disconnect the SEP power cord from the 20-A Class L to commercial extension cord. Disconnect the extension cord from the J7 connector on the PDISE.

Power supply equipment must be cleaned of dirt, debris and corrosion. Dry the equipment thoroughly, before packing. Prepare power supply equipment for packing as follows:

1. Service and Power Cables. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and then allow to completely air dry.

### NOTE

PDISE-M100 can be prepared after the 100-A/50-foot service cable and 60-A/100-foot power cables have been disconnected.

2. PDISE-M100. Clean the external surfaces with a clean, damp rag. Clean the face of PDISE-M100 circuit breaker panel with a dry rag.

Prepare the following cables for packing into TRICON Type 2A and 2B. Position power supply equipment near TRICON indicated, but do not begin packing container yet. Procedures for field packing the containers follow later in this WP.

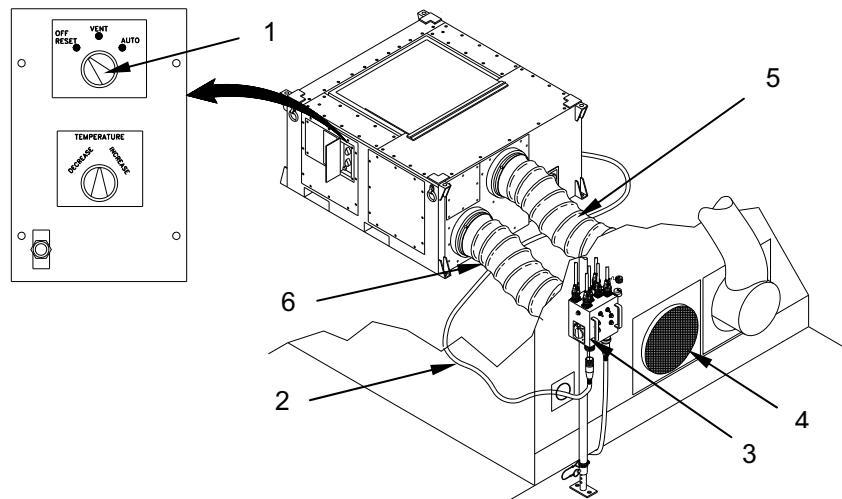
1. Locate one PDISE-M100. Ensure that all connector covers are installed and secured, and that the top cover is closed and secured.
2. Locate two 100-A/50-foot service cables and eight cable carrying straps. Coil each cable into a uniform coil having a diameter no greater than 26 inches. Secure each coil using four cable carrying straps.
3. Locate three 60-A/100-foot power cables and eight carrying straps. Coil each cable into a uniform coil having a diameter no greater than 30 inches. Secure each coil using two cable carrying straps.
4. Locate one 100-A/4-foot pigtail. Ensure dust cap is installed and secured on the cable connector.

## PREPARATION FOR MOVEMENT OF THE ECU

### NOTE

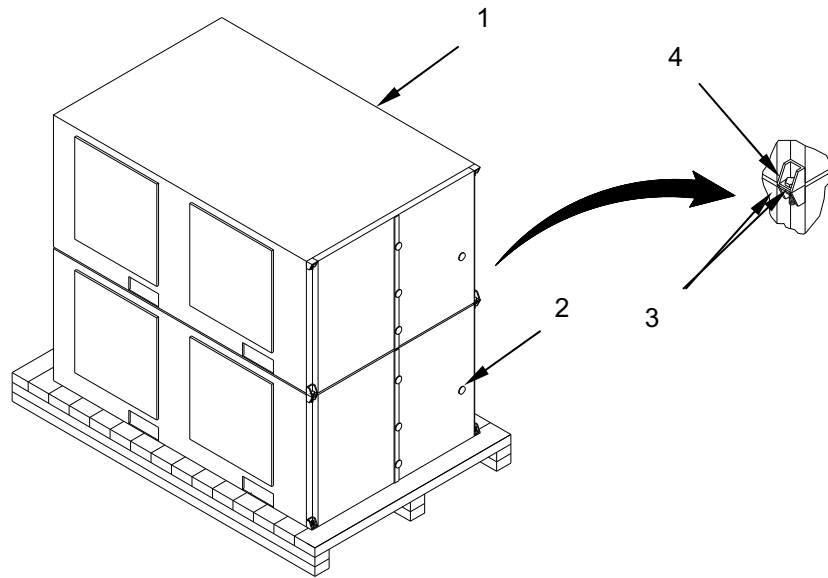
The following instructions for the preparation for movement of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-4096) is at hand, assemble, shut down and prepare it for movement and packing in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-459) are at hand, use TM 9-4120-411-14. Otherwise, follow the instructions furnished herein.

1. Set ECU mode selector switch (1) to OFF- RESET position.
2. Disconnect ECU power cable (2) from POWER OUT receptacle on TEMPER power distribution box (3). Install dust caps on cable and receptacle. Coil cable (2) and store inside condenser compartment storage box.
3. Remove debris screen (4) from return duct.
4. Disconnect ECU supply duct (5) and return duct (6) from TEMPER and ECU. Store ducts in condenser compartment storage box.



Prepare the ECU for movement as follows:

1. Locate two ECU (1) and (2), one with attached pallet and one without. Ensure latches and doors are secured.
2. Remove four mounting bolts, nuts and washers (3) from four unit-to-unit corner mounts (4) of pallet-attached ECU (2).
3. With forklift, position ECU (1) without pallet on top of pallet-attached ECU (2), ensuring both ECU (1) and (2) face the same direction and unit-to-unit mounting holes (4) are aligned. Secure units together with four  $\frac{5}{8}$ -inch x 2-inch bolts, four  $\frac{5}{8}$ -inch nuts and four flat washers (3).



## PREPARATION FOR MOVEMENT OF THE SHOWER EQUIPMENT

Prepare the following equipment for packing and movement as described below:

### Preparation for Movement of Shave Stand System

1. Disconnect shave stand power cords. Retrieve extension cords. Coil the cords and plug the two connectors together.
2. Prior to preparing the shave stands for packing, ensure that the stands have been cleaned of dirt, debris and corrosion and rinsed clean of any detergent.
3. After potable water system has been shut down, open faucets on shave stands. Disconnect potable water and drain hoses from shave stands.
4. Disconnect shave stand potable water and drain hoses from the CSS water panels. Remove hoses connecting second shave stand and let drain. Gather potable and drain hoses in separate location for packing.
5. Disassemble shave stands by removing upper panels and leg extensions. (Refer to WP 0027 00 as necessary.)
6. Remove shave stands from TEMPER and set them aside and out of the way. The shave stands will be prepared for shipping as described under FIELD PACKING SHOWER TENT KIT TYPE 4E.

### Preparation for Movement of Shower Facility Equipment

#### NOTE

Do not prepare used or soiled cleaning equipment such as brooms and mop heads for packing. Do not prepare used towels for packing. Dispose of these items locally.

1. Remove all remaining equipment, including folding tables, benches, storage and drying racks, floor mat, laundry carts, garbage cans with lids, and folding chairs from TEMPER and place it outside and out of the way.

2. Clean all equipment of dirt, debris and corrosion, as applicable. Dry components thoroughly.
3. Remove unused cleaning equipment and towels from TEMPER. Set items aside and out of the way.
4. Locate 55-Gallon fuel drum used with the M80 Water Heater. In cooperation with fuel distribution personnel, empty drum of fuel. Position drum in vicinity of TRICON 4D for packing.

#### **PREPARATION FOR MOVEMENT OF SHOWER TEMPER**

Prior to striking the TEMPER, ensure shave stands and all other shower equipment has been removed.

Strike TEMPER in accordance with TM 10-8340-224-13.

#### **NOTE**

Keep TEMPER/Shower Bootwall separate from other TEMPER components. The boot wall is part of the CSS and will be packed separate from the remaining TEMPER components into ISO Container 4A.

TEMPER Components must be internally and externally cleaned of dirt, debris and corrosion, and dried thoroughly, before packing. Separate the TEMPER/CSS Bootwall from the rest of the TEMPER components for shipment with the CSS. Prepare TEMPER equipment for packing as follows:

1. Exterior Fabric Components and Vinyl Liners. Sweep loose dirt from both sides of each fabric section and clean with a scrub brush and warm soapy water. Rinse with clean water and allow fabric to completely air dry.
2. Cloth Liners. Do not launder liners. Sweep loose dirt from both sides of each liner. Allow liners to completely air dry.
3. Frame Components. Clean with steam cleaner or pressurized washer, and scrub brush. Allow frame sections to completely air dry.
4. Electrical Cable Assemblies. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and allow cables to completely air dry.
5. TEMPER Electrical Distribution Box. Clean the external surfaces with a clean, damp rag. Ensure all dust caps are installed and secure.
6. Double Bump-Through Doors. Sweep loose dirt from both sides of each fabric section and clean with a scrub brush and warm soapy water. Rinse with clean water and allow fabric to completely air dry.

#### **PREPARATION FOR MOVEMENT OF SEWAGE EJECTION PUMP, WASTE WATER EVACUATION**

#### **NOTE**

The SEP is furnished for discretionary use in situations where the organic waste water evacuation capacity of the CBL is insufficient due to the length of evacuation distance, or where insufficient gravity flow exists in the waste water collection system. If this equipment was not used and is still stored in its original packaging in TRICON 2B, no preparation is necessary.

The following procedures outline the steps to prepare the SEP equipment for movement.



### **WARNING**

The SEP tank and all components must be thoroughly steam cleaned, disinfected and allowed to completely dry before components are prepared for packaging to prevent contamination and infection to exposed personnel.

1. Remove tank cover. Spray P14 preservative into the pump through the output port.
2. Locate the heating element and float switch in the tank. Wrap heating element and float switch in barrier material and secure with tape. Place a minimum of two wraps cushioning around each item. Secure cushioning material in place with tape.
3. Secure heating element and float switch from movement inside the sewage ejection pump, waste water evacuation tank with twine.
4. Install all dust caps and plugs, as required, onto plumbing fittings and couplings. Place a minimum of two wraps cushioning material around each item. Secure cushioning material in place with tape.
5. Place each wrapped item in a close fitting, heat sealed Bag using barrier material. Place couplings and fittings into a fiberboard container. Close the container with tape.
6. Locate Technical Manual, Sewage Ejection Pump, TM 10-4630-206-12&P. Place the TM in a single bag made with barrier material and secure with tape. Place box and technical manual inside sewage ejection pump, waste water evacuation tank. Secure in place. Fill voids between pump and tank walls with honeycomb to prevent movement during transportation.
7. Wrap the connectors on each end of the power cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.
8. Replace and secure cover.

### **PREPARATION FOR MOVEMENT OF FLOODLIGHT EQUIPMENT**

Prepare the 1,000W and 2,000W Floodlights and associated equipment for movement as described in WP 0051 00.

**FIELD PACKING SHOWER TENT KIT TYPE 4B**

This paragraph provides information to pack equipment into TRICON Type 4B. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON, Type 4B. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 4B refer to Table 1, WP 0027 00.  
 For information and illustrations of TEMPER components refer to TM 10-8340-224-13.  
 For information and illustrations of PDISE-M100 and associated components refer to TM 9-6150-226-13.  
 For information and illustrations of other shower components refer to WP 0089 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

To prepare tent bundles Type I, locate the following items for each bundle:

**Table 1. Tent Bundle Type I.**

Item	Quantity
Door Section, TEMPER	1
Window Section, TEMPER	1
Liner, End Section, D/T TEMPER	1
Tent Fly, 16-foot, D/T	1
Cover, Tent, TEMPER	1

1. On a clean flat surface, neatly fold the first four items item into a flat, compact package that is 36-inches long by 36-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Repeat this process until two bundles are completed.
6. Bundle sequential identification stencil must be visible, i.e., "Tent 1, Bundle 1 of 2" and "Tent 2, Bundle 1 of 2".

To prepare tent bundle Type II locate the following items for each bundle:

**Table 2. Tent Bundle Type II.**

Item	Quantity
Liner, Intermediate Temperate TEMPER	2
Floor, 8 Ft, Single Ply, TEMPER	2
Plenum, Extendable, 16 Ft, TEMPER	1
Vestibule w/door, TEMPER	1
Floor, Vestibule, Single Ply, TEMPER	1
Plenum, End Wall, 16 Ft, TEMPER	1
Cover, Tent, TEMPER	1

1. On a clean flat surface, neatly fold the first six items into a flat, compact package that is 36 inches long by 36 inches wide, plus or minus 2 inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Repeat this process until two bundles are completed.
6. Bundle sequential identification stencil must be visible, i.e., "Tent 1, Bundle 2 of 2" and "Tent 2, Bundle 2 of 2".

Locate two window section frames, consisting of the following components:

**Table 3. Window Section Frame Components.**

Item	Quantity
Arch assembly	1
Header assembly	1
Purlin assembly	5
Eave extender assembly	2
Ridge extender assembly	1
Transport/storage cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover and close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17-inches wide x 8-inches tall.
7. Repeat this process until two bundles are completed.

Locate two door section frames, consisting of the following components:

**Table 4. Door Section Frame Components.**

Item	Quantity
Arch assembly	1
Header assembly	1
Purlin assembly	3
Purlin assembly, door sill	2
Eave extender assembly	2
Ridge extender assembly	1
Transport/storage cover	1



1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the three purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover and close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17-inches wide x 8-inches tall.
7. Repeat this process until two bundles are completed.

Locate three Vestibule Frame Assemblies, each consisting of the following components:

**Table 5. Vestibule Frame Assembly Components.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

1. Locate one vestibule frame container.
2. Place three (3) vestibule frame assemblies inside the vestibule frame container. Place cushioning material between any metal parts that contact each other in the container. Secure with tape.

To prepare the tent pins for packing, proceed as follows:

1. Locate two fabric tent pin containers and place 15 each 24-inch wood tent pins in each box. Secure containers with tie provided.
2. Retrieve, or fabricate, if no longer available four each wooden tent pin boxes. Locate 120 steel tent pins (18-inch) and pack into four wooden tent pin boxes. Place 30 each pins inside each box. Secure each box with nails and steel strapping.

Locate one each TEMPER distribution box stands and wrap both ends with cushioning material. Secure with tape. Wrap fiberboard around the center mounting plate and secure it in place with tape.

To prepare the TEMPER Distribution Box Assembly, locate the following items:

**Table 6. TEMPER Distribution Box Assembly.**

Item	Quantity
TEMPER Electrical Distribution Box	1
Cable Assembly, Light, 173-in	1
Cable Assembly, Light, 103-in	1
Cable Assembly, Outlet, 254-in	2
Cable Assembly, Outlet, 156-in	2

1. Record the serial number of the distribution box.
2. Completely wrap the temper electrical distribution box in cushioning material. Secure cushioning material in place with tape.
3. Wrap the temper electrical distribution box in barrier material. Secure in place with tape.

4. Record serial number on outside of wrapped distribution box.
5. Wrap the connectors on each end of the cables in two layers of cushioning material and secure in place with tape.
6. Wrap each connector end in barrier material. Secure in place with tape.
7. Coil each assembly and secure with twine or cable ties.

Locate four each TEMPER convenience outlet assemblies, 3-drop. Wrap each convenience outlet in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.

Locate the following technical manuals:

**Table 7. Technical Manuals.**

Item	Quantity
Technical Manual, Temper Tent TM 10-8340-224-13	1
Technical Manual, Temper Tent TM 10-8340-224-23P	1
Technical Manual, Force Provider TM 10-5419-206-13	1
Technical Manual, Force Provider TM 10-5419-206-23P	1

Place the technical manuals in a single sealed bag made of barrier material. Seal bag with tape.

Locate two 120V, 25-foot extension cords and wrap the connectors with cushioning material. Secure in place with tape. Wrap each connector in barrier material and secure with tape. Coil each assembly and secure with twine or cable ties.

**NOTE**

Do not prepare used or soiled cleaning equipment such as brooms and mop heads for packing. Dispose of these items locally.

Locate any un-used mop heads and wrap in barrier material. Seal with tape.

Locate two mop wringers and pack into the original manufacturer’s shipping container, or a loose fitting fiberboard box. Seal with tape.

Locate eight footlockers (in use with the billeting subsystem) and pack them as follows:

1. Locate two footlockers. Place one each TEMPER electrical distribution box and two each convenience outlet assemblies as prepared previously, into each footlocker.
2. Locate one footlocker. Place the technical manuals and two each 25-foot extension cables, as prepared previously into the footlocker.
3. Locate two footlockers. Place one, each (unused) mop head and one mop wringer, as prepared previously inside each footlocker.
4. Locate three footlockers. Place the footlockers, as well as those packed in steps 1 through 3, above, into the manufacturer’s original shipping box, or a close fitting fiberboard box with exterior dimensions not to exceed 24-inches long x 21-Inches wide x 13-inches high. Secure boxes with tape.

Locate four 60-A/100-foot Power Cable Assemblies.

1. Wrap the connectors on each end of the cable in two layer of cushioning material and secure with tape.

2. Wrap each connector end in barrier material and secure with tape.
3. Neatly coil each assembly and secure with twine or cable ties.
4. Coiled assemblies should fit two each into original shipping fiberboard containers. Other fiberboard containers with the outer dimensions of 32½-inches long x 32½-inches wide x 9- inches high can also be used. A fiberboard liner shall be placed against the inside box walls.

Locate one Electrical Feeder System PDISE M-100.

1. Ensure that all connector covers are installed and secured.
2. Wrap PDISE with cushion material and secure with tape.
3. Wrap PDISE with barrier material and secure with tape.
4. Place wrapped PDISE into original shipping, or appropriate replacement fiberboard container.
5. Place TM 9-6150-226-13 into container with PDISE and close the container with tape.
6. Locate two 100-A/50-foot service cables and one 100-A/4-foot pigtail assembly.
7. Wrap connectors of cable and pigtail assemblies with cushioning material and secure with tape. Wrap connectors with barrier material and secure with tape.
8. Coil each cable and pigtail assembly into a uniform coil of a diameter no greater than 26- inches.
9. Locate eight cable carrying straps and secure each 50-foot cable coil with four straps.

### NOTE

Do not prepare used or soiled towels for packing. Dispose of these items locally.

Locate any unused towels. Place the towels into a bag of barrier material and seal bundle with tape. Make sure that the shape of the bag(s) is such that it fits into a fiberboard container with outer dimensions of 18-inches long x 18-inches wide x 16-inches high. Place towels into container and seal with tape.

Locate two mop buckets and pack into the original manufacturer's shipping container, or a loose fitting fiberboard box. Seal with tape.

Locate one sledge hammer and one wooden mallet. Wrap sledge hammer head with a minimum of two wraps of cushioning material and secure with tape. Place both the sledge hammer and the mallet inside a fiberboard container with outer dimensions not to exceed 40½-inches long X 10-inches wide x 8-inches high. Fill voids within container using cushioning material to prevent contents from moving.

Locate two floormats. Tightly roll each 32-foot floormat individually, and secure roll twice with tape.

Locate two mop handles. Wrap each mop handle metal end with barrier material and secure in place with tape. Nest the two mop handles together and secure with tape.

Locate two (unused) brooms and two shovels. Nest like items together and wrap into a plastic sheet. Secure with tape.

## Packing Procedures for TRICON Type 4B

The following packing materials and other items are required to pack TRICON 4B:

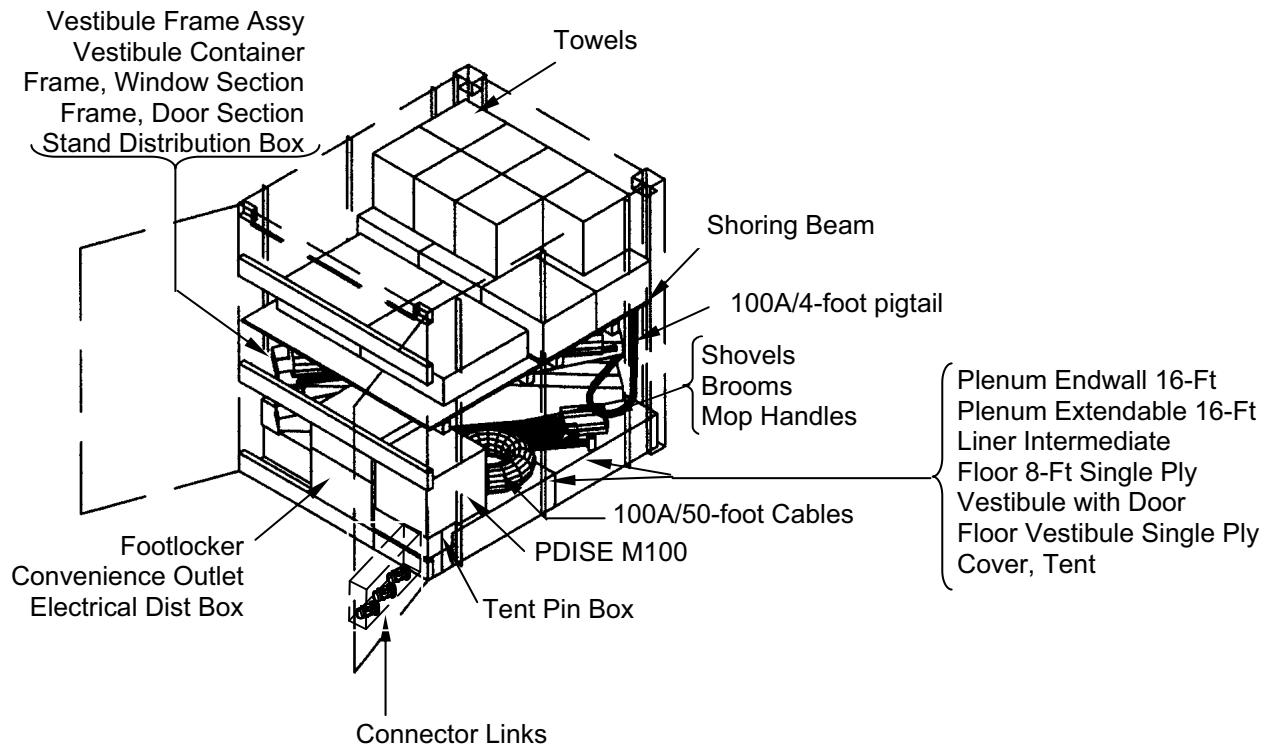
**Table 8. TRICON 4B Packing Materials.**

Item, NSN	Qty
Pad, energy dissipating, 3in thick (honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2 x 6 x 75-3/4-inches long	3
Corrugated Fiberboard Stock, ASTM-D4727	As required
Special purpose web tiedown NSN 3990-01-204-3009	8
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Steel Strapping, 1/2-Inch, (ASTM D-3953)	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4

Use the following procedures to pack bottom layer of TRICON Type 4B:

1. Locate TRICON with "SHOWER TENT KIT; CO. TYPE 4B..." stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Overlap is allowable.
4. Locate the four each tent fabric bundles. Place the bundles into the TRICON one at a time. Position the bundles on the floor as shown. Ensure the bundles will not interfere with the closing of the doors.
5. Locate two each TEMPER door section frames. Place the frame section on the tent bundles running from the right corner to the left front corner. Center frames between the corners as shown.
6. Locate the hammer/mallet box, the two each floormat rolls and the two each pin, wood, tent, 24-inch bundles. Place the hammer/mallet box, floormat rolls and the wood tent pin bundles on the left side of the container, in the triangle formed by the tent frame section bundles, on top of the tent fabric bundles, as shown.
7. Locate one each 100A/50-foot cable assembly, part of the electrical feeder system, PDISE-M100. Position the cable assembly on the tent bundles, on the left side of the container, in the triangle formed by the tent frame section bundles, on top of the tent fabric bundles.
8. Locate two each mop buckets. Place on top of floormat rolls, the hammer/mallet box and pin, wood, tent, 24-inch bundles, as shown.
9. Locate two each TEMPER window section frames. Place the window frame sections on top of the door section frames, running from the right corner to the left front corner. Center frames between the corners as shown.
10. Locate two each vestibule frame kits. Place the vestibule frame bundles next to the door section frame and window section frame bundles, on left side of bundles.
11. Locate two each stand, distribution, one each shovel, two each brooms and two each mop handles. Place these items on top of the vestibule frame bundles.
12. Locate four each tent pin boxes containing pin, tent, steel, 18-inches as previously prepared. Place the boxes on container floor, front edge of container, next to tent bundles.

13. Locate one each 100A/50-foot cable assembly, and one each 100A/4-foot pigtail, part of the electrical, feeder system, PDISE-M100. Position them in the rear left corner of the TRICON between the footlockers and the tent frame sections as shown.
14. Locate the electrical feeder system box, part of the electrical feeder system, PDISE-M100. Place the Electrical feeder system box in front right hand corner, on top of the pin, tent, steel, 18-inches.
15. Locate the two each footlockers containing the TEMPER electrical distribution boxes and convenience outlet assemblies, previously prepared. In the front right center of the container, place the trunk lockers lengthwise on the bundles as shown.
16. Locate four each TRICON shelf support brackets and Install each at the marked locations. (The bottom of the bracket should be 34- inches above the TRICON floor).
17. Locate footlocker containing the technical manuals and extension cables as previously prepared and two footlockers containing the mop head and mop wringer. Also locate three empty footlockers. Place them lengthwise on the right rear part of the shelf, forming two rows. Place the empty trunk lockers to the rear of the container as shown.
18. Locate two box assemblies containing four each cable assembly, 60-A/100-foot. Place the boxes on the shelf, in front of the trunk lockers as shown.
19. Locate towel boxes, as previously prepared. Place the boxes on top of trunk lockers and cable assemblies as shown.
20. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Use insert(s) to fill voids between the packaged contents. These fillers and all dunnage saved during unpacking shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
21. Ensure three each TRICON connectors are located in the holder on the lower inside of the right hand container door. Close and secure TRICON door.

































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**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - WATER DISTRIBUTION SUBSYSTEM**

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**GENERAL**

Following are instructions for the preparation for movement and field packing of the water distribution subsystem equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Obtain replacement of damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL Bulk Items List (TM 10-5419-206-23P, WP 0002 00).

**PREPARATION FOR MOVEMENT OF WATER DISTRIBUTION EQUIPMENT**

The following procedures outline the steps to prepare the water distribution equipment for packing and movement.

1. When serviced subsystems (showers, latrine, laundry, and food service) have ceased operation, coordinate with waste water collection subsystem personnel to conduct a superchlorination and system flush as described under "System Disinfection" in WP 0028 00. Refer to TB MED 775 for additional information.
2. When the system flush is completed, shut down the water distribution by turning off branch leg valves. Turn off circulation loop by shutting down water pump and hypochlorinator. Disconnect the hypochlorinator and water pump from the power source. Disassemble the water distribution system and pack equipment into TRICON 5A and 5B as described in this WP.
3. Prepare the 400-Gallon water trailers for movement as described in TM 9-2330-267-14&P.
4. Prepare the 20,000-Gallon water tanks for movement as described in TM 5-5430-219-13.
5. Prepare the containerized shower water pump assembly for movement as described in TM 10-4510-208-13&P.

**CAUTION**

It is imperative that water hoses are completely dry before being prepared for and packed into the reusable containers and TRICON. Mold will develop if moisture remains and contaminate the hoses.

6. Ensure equipment is clean and dry before packing.

**FIELD PACKING WATER DISTRIBUTION SYSTEM TANK KIT TYPE 5A**

This paragraph provides information to pack equipment into TRICON Type 5A. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into designated containers, and maintain uniformity of similar TRICON. The following procedures are for field packing two TRICON, Type 5A. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 5A refer to Table 1, WP 0028 00.  
 For information and illustrations of 20,000-Gallon Tank refer to TM 5-5430-219-13.  
 For information and illustration of Containerized Shower Pump Assembly refer to TM 10-4510-208-13&P.  
 For information and illustrations of other water distribution equipment refer to WP 0090 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

Prepare the contents of TRICON 5A as described below.



**WARNING**

Some of the equipment to be lifted and moved is heavy. To avoid injury due to heavy lifting, two persons are required to perform the following procedures.

1. Locate ten each hose assemblies, potable water, QDISC, Cam-Lock, 4-in x 20-foot, M x F and prepare as follows:
  - a. Wrap each hose coupling in two layers of cushioning material and secure in place with tape.
  - b. Wrap each coupling in barrier material and secure in place with tape.
2. Locate two each FP water distribution system tank connection kits consisting of the following items in the quantities shown and prepare as described below:

**Table 1. Water Distribution Tank Connection Kit.**

Item	NSN / Part Number	Qty
Hose Assembly, Potable Water, QDISC, Cam-Lock, 4 In X 20 Ft, M X F	/9-1-0781-56/(81337)	2
Hose Assembly, Potable Water, QDISC, Cam-Lock, 4 In X 10 Ft, M X F	/9-1-0781-54/(81337)	2
Hose Assy, Potable Water, QDISC, Cam-Lock, 1-1/2 In X 20 Ft, M X F	/9-1-0781-36/(81337)	32
Hose Assy, Potable Water, QDISC, Cam-Lock, 1-1/2 In X 20 Ft, F X F	/9-1-0781-94/(81337)	2
Tee Assembly, QDISC, 1-1/2 In M X 1-1/2 In F X 1-1/2 In M	/9-1-0501/(81337)	2
Recirculation Tee Assembly	/9-1-0503/(81337)	2
Valve Assembly, Gate, QDISC, Cam-Lock 4 Inch	4820-01-445-1679	2
Valve Assembly, Gate, QDISC, Cam-Lock 1-1/2 Inch, F X M	/9-1-0500 (81337)	4
Reducer, QDISC, Cam-Lock, 2 In M X 1-1/2 In F	4730-00-951-3298	2
Reducer, QDISC, Cam-Lock, 4" In M X 2 In F	4730-01-186-0821	2
Tee Assembly, Hypochlorinator	/9-1-0792/(81337)	2

- a. Wrap each hose assembly coupling in two layers of cushioning material and secure with tape.
- b. Wrap each coupling in barrier material and secure in place with tape.
- c. Install dust caps and plugs as applicable on valves, Tees, and reducers.
- d. Place a minimum of two wraps of cushioning material around each item and secure with tape.
- e. Place each wrapped item into a bag made of barrier material. Secure with tape.
- f. Wrap each metallic fitting on the hypochlorination units with cushioning material and secure with tape.
- g. Wrap each metallic fitting on the hypochlorination units with barrier material and secure with tape.

- h. Wrap the power cord connector in two layers of cushioning material and seal with tape. Coil cable and secure with cable ties.
  - i. Locate hypochlorinator technical manual and wrap it into barrier material. Secure with tape.
  - j. Place hypochlorinator and technical manual into original shipping box, or a new, close-fitting fiberboard container. Secure box with tape.
3. Locate two 20,000-Gallon collapsible fabric potable water tank assemblies, each including the following components, and prepare as described:

**Table 2. 20,000-Gallon Collapsible Fabric Tank Assembly.**

Item	NSN / PN/(CAGE)	Qty
Ground Cloth, 20,000 Gallon Fabric Tank	/8001229000/(66618)	1
Hose Assy, Potable Water, QDISC, Cam-Lock, 1-1/2 In X 20 Ft, M X F	4720-01-438-7649	1
Vent Tube Assembly, 2 In	/8600000228/(66618)	1
Input Elbow, 90 Degree, QDISC, Cam-Lock, 4 In F X 4 In F	/01001019/(66618)	1
Output Elbow, 90 Degree, QDISC, Cam-Lock, 4 In F X 4 In M	/01001020/(66618)	1
Output Elbow, 90 Degree, QDISC, Cam-Lock, 1-1/2 In F X 1-1/2 In M	/8600000382/(66618)	1
Valve Assembly, Gate, QDISC, Cam-Lock 1-1/2 Inch, F X M	/9-1-0500/(81337)	1
Output Assembly, 1-1/2 In	/9-1-0504/(81337)	1
Input/Output Fitting, 4 In	/9-1-0515/(81337)	2
Emergency Repair Kit, Fabric Tank	/8600000265/(66618)	1
Technical Manual, Commercial, 20,000 Gallon Fabric Tank	/02001014/(66618)	1

- a. Wrap each hose assembly coupling in two layers of cushioning material and secure in place with tape.
- b. Wrap each coupling in barrier material and secure in place with tape.
- c. Install dust caps and plugs as applicable on elbows, fittings, vent tube assembly and ball valves.
- d. Place a minimum of two wraps of cushioning material around each item and secure with tape.
- e. Place each wrapped item into a bag made of barrier material. Secure with tape.
- f. Locate emergency repair kit. Place unused repair kit components into a bag made of barrier material and seal with tape. If provided, place repair kit into storage pouch.
- g. Locate the commercial technical manual and place into plastic bag, or one made of barrier material and sealed with tape.
- h. Place the elbows, valves, fittings, repair kit and technical manual into a close-fitting fiberboard container. Close the container with tape.
- i. Locate 20,000-Gallon fabric tank and ground cloth. Unroll the tank on a clean flat surface. Ensure that the tank is clean and dry.
- j. Wrap each tank fittings with two wraps of cushioning material and secure with tape.
- k. Wrap each tank fitting with barrier material and secure with tape.
- l. Place a piece of cardboard over each fitting to protect the material when rolled up.

- m. Apply talc to all external surfaces of the tank, then fold to a size not bigger than 33-inches in diameter and 60-inches long.
- n. Unroll the ground cloth and repeat the process.
- 4. Locate two each Pump Assemblies, Containerized Shower. Open valves and drain cocks and let pump drain, then prepare as follows:
  - a. Seal openings on the valves, drain cocks, and electrical motor with barrier material. Secure in place with tape.
  - b. Cover gauges, sight glasses, and dials with barrier material secure in place with tape.
  - c. Wrap the connector end of the power cable in two layers of cushioning material and secure in place with tape.
  - d. Coil the power cable and secure with twine or cable ties.
- 5. Locate two each Class L to Commercial, 20 AMP, power cables and prepare as follows:
  - a. Wrap the connectors on each end of the cable in two layers of cushioning material and secure in place with tape.
  - b. Wrap each cable connector in barrier material and secure in place with tape.
  - c. Coil each cable assembly and secure with twine or cable ties.

**Packing Procedures for TRICON Type 5A**

The following packing materials and other items are required to pack TRICON 5A:

**Table 3. TRICON Type 5A Packing Materials.**

Item	Qty
Pad, energy dissipating, 3-in thick (honeycomb), NSN 1670-00-753-3928, 2 Sheets.	2
Lumber, 2-inches x 6-inches x 75- <sup>3</sup> / <sub>4</sub> -inches long	4
Steel Strapping, 1/2-Inch, (ASTM D-3953)	As required
Special Purpose Web, Tiedown NSN 3990-01-204-3009	2
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Fiberboard Sheet 4-feet x 8-feet	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Plywood, 1/2-inch, 2-sheets	2
Plywood, 3/4-inch thick, 4-foot x 8-foot, 2 sheets	2

Use the following procedures to pack TRICON type 5A:

1. Locate TRICON with "WATER DISTRIBUTION SYSTEM TANK KIT; CO. TYPE 5A..." stenciled on the left door.
2. Open doors and remove everything from the TRICON. This should include two medium size reusable containers marked 5A BIN #1 and 5A BIN #2, as well as two plywood covers. Set the reusable containers with covers, aside. Ensure TRICON interior is clean and dry.

3. Work each barrel bolt mechanism (two per container) on the door to ensure proper operation. Line each of the sides and floor of each reusable container with a minimum of two layers of fiberboard material. Cut the fiberboard material so that it will bend with the door on the container when the door is opened.
4. Locate the following items in the quantities specified, as previously prepared and pack the items into reusable container marked 5A BIN #1 as described below:

**Table 4. Container 5A BIN #1 Contents.**

Item	NSN / PN/(CAGE)	Qty
Assembly, Potable Water, QDISC, Cam-Lock, 4 In X 20 Ft, M X F,	/9-1-0781-54/(81337)	5
Pump Assembly, Containerized Shower	/5-13-6761/(81337)	1
Power Cable, Class L To Commercial, 20-A	6150-01-413-2235	1
Hypochlorination Unit	4610-01-435-4884	1
Tank Connection Kit, FP Water Distribution System	5430-01-435-4882	1
Hose Assembly, Non Metallic, Garden	4720-00-729-5334	1
Tank Assembly, Fabric, Collapsible, 20,000-Gallon	5430-01-432-6304	1

- a. Carefully and neatly pack the items into reusable container marked 5A BIN #1, using a sling (if provided) to place the tank assembly into the container. Place the tank assembly to the front of the reusable container.
  - b. Fill all voids in the container to secure the items and to create a tight pack. Place two layers of cushioning material over the items inside the container.
  - c. Coil each cable assembly and secure with twine or cable ties.
  - d. Retrieve, or fabricate a plywood cover in accordance with 9-1-0758 (81337). Fit the cover into the four corner brackets of the container.
  - e. Place the cover on the container with cleats facing up. Secure with ¼-inch steel strapping at two locations, running around the entire reusable container.
  - f. Repeat this process with the second reusable container marked 5A BIN #2.
5. Cut two sheets of the ¾-inch thick plywood to lay flat on the floor of the TRICON, tight to all sides, and so that the doors will close tight against the front edges.
  6. Install two each tiedown straps on the rear vertical uprights at the paint mark that is approximately 3 to 4 inches lower than the two stacked containers. Make sure that the ratchet end of the strap will connect to the front of the container. Position the straps so that they are out of the way when placing the reusable container into the TRICON.
  7. Using a forklift, place reusable container marked 5A BIN #2 on top of the reusable container marked 5A BIN #1.
  8. Using a forklift, place the two containers inside the TRICON.
  9. Place four each 2-inch x 6-inch x 75¾-inch pieces of lumber in front of the containers as shown.
  10. Cross the previously attached tiedown straps and attach to the front corner tiedown brackets of the container. Make sure that the straps are not caught up on any obstruction and are properly tightened. Fold loose ends of straps and secure with nylon wire zip ties.
  11. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.
  12. Close and secure TRICON door.

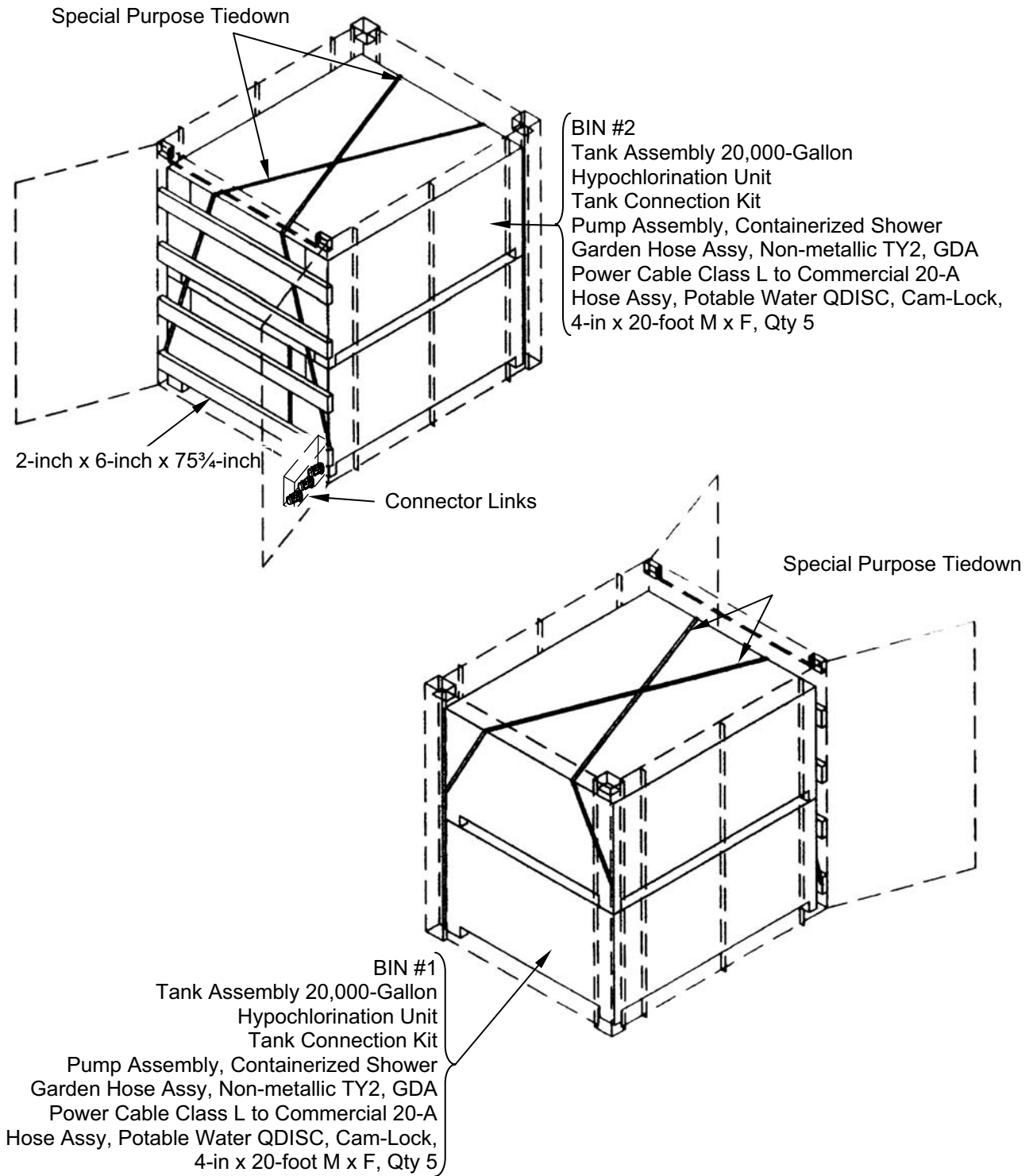


Fig 1. Field Packing Water Distribution System Tank Kit Type 5A.



**FIELD PACKING WATER DISTRIBUTION SYSTEM ACCESSORY KIT TYPE 5B**

This paragraph provides information to pack equipment into TRICON Type 5B. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into designated containers, and maintain uniformity of similar TRICON. The following procedures are for field packing two TRICON, Type 5B. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 5B refer to Table 2, WP 0028 00.  
 For information and illustrations of other water distribution equipment refer to WP 0090 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

Prepare the contents of TRICON 5B as described below.



**WARNING**

Some of the equipment to be lifted and moved is heavy. To avoid injury due to heavy lifting, two persons are required to perform the following procedures.

1. Locate four small nozzle connection kits each consisting of the following components and prepare as described below:

**Table 5. Small Nozzle Connection Kit.**

Item	NSN / PN/(CAGE)	Qty
Nozzle Assembly, Water, 1-in	4610-01-440-6834	1
Stand Assembly, Fuel Can, Collapsible	4520-01-465-4430	1
Recirculation Tee Assembly	/9-1-0503/(81337)	1
Hose Assembly, Potable Water, QDISC, Cam-Lock, 1 In X 20 Ft, M X F	/9-1-0781-24/(81337)	4
Hose Assy Potable Water, QDISC, Cam-Lock, 1-1/2 In X 20 Ft, M X F	/9-1-0781-36/(81337)	2
Gasket, Coupling Half, QDISC, Cam-Locking, 1-1/2 In	5330-00-360-0595	1
Reducer, QDISC, Cam-Lock, 1-1/2 In F X 1 In M	4730-00-889-2382	1

- a. Wrap hose assembly couplings in two layers of cushioning material and secure in place with tape.
- b. Wrap each coupling in barrier material and secure in place with tape.
- c. Install dust caps and plugs on nozzle assembly reducers, fittings and valves as applicable.
- d. Place a minimum of two wraps of cushioning material around each item and secure in place with tape.
- e. Place each wrapped item into a bag made of barrier material and secure with tape.
- f. Wrap the components of the fuel can stand assembly into cushioning material and secure with tape.
- g. Locate unused coupling half gaskets, 1½-in and retain them in their original packing.

2. Locate four Large nozzle connection kits each consisting of the following components and prepare as described below:

**Table 6. Large Nozzle Connection Kit.**

Item	NSN / PN/(CAGE)	Qty
Nozzle Assembly, Water, 1½-in	3836-01-433-4196	1
Stand Assembly, Fuel Can, Collapsible	4520-01-465-4430	1
Recirculation Tee Assembly	/9-1-0503/(81337)	1
Hose Assy Potable Water, QDISC, Cam-Lock, 1-1/2 In X 20 Ft, M X F	/9-1-0781-36/(81337)	2

- a. Wrap hose assembly couplings in two layers of cushioning material and secure in place with tape.
  - b. Wrap each coupling in barrier material and secure in place with tape.
  - c. Install dust caps and plugs on nozzle assembly reducers, fittings and valves as applicable.
  - d. Place a minimum of two wraps of cushioning material around each item and secure in place with tape.
  - e. Place each wrapped item into a bag made of barrier material and secure with tape.
  - f. Wrap the components of the fuel can stand assembly into cushioning material and secure with tape.
3. Locate one pump unit accessory kit consisting of the following components and prepare as described below:

**Table 7. Pump Unit Accessory Kit.**

Item	NSN / PN/(CAGE)	Qty
Valve Assembly, Gate, QDISC, Cam-Lock, 1-1/2-in M X F	/9-1-0500/(81337)	4
Check Valve Assembly, 1-1/2-in	/9-1-0520/(81337)	2
Tee Assembly, QDISC, Cam-Lock, 1-1/2-in M X 1-1/2-in F X 1-1/2-in M	/9-1-0501/(81337)	2
Reducer, QDISC, Cam-Lock, 2-in F X 1-1/2-in M, Al	4730-00-951-3295	4
Hose Assy, Potable Water, QDISC, Cam-Lock, 1-1/2-in X 20-ft, M X F	/9-1-0781-36/(81337)	8
Hose Assy, Potable Water, QDISC, Cam-Lock, 1-1/2-in X 10-ft, M X F	9-1-0781-34 (81337)	2
Hose Assy, Potable Water, QDISC, Cam-Lock, 1-1/2-in X 15-ft, F X F	9-1-0781-93 (81337)	2

- a. Wrap hose assembly couplings in two layers of cushioning material and secure in place with tape.
  - b. Wrap each coupling in barrier material and secure in place with tape.
  - c. Install dust caps and plugs on nozzle assembly reducers, fittings and valves as applicable.
  - d. Place a minimum of two wraps of cushioning material around each item and secure in place with tape.
  - e. Place each wrapped item into a bag made of barrier material and secure with tape.
4. Locate one adapter assembly 1-in F x 3/8-in NPT, four adapter, 3/8-in NPT x 3/8-in M garden hose thread, and two reducer, QDISC, Cam-Lock, 1½-in F x 1-in M, Al.
- a. Install dust caps and plugs on nozzle assembly reducers, fittings and valves as applicable.
  - b. Place a minimum of two wraps of cushioning material around each item and secure in place with tape.

- c. Place each wrapped item into a bag made of barrier material and secure with tape.
- 5. Locate one gasket coupling half, QDISC, Cam-Lock, 1½-in. Retain in original packing.
- 6. Locate two power cables, Class L to Commercial, 20-A. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape.
  - a. Wrap each connector end in barrier material. Secure in place with tape.
  - b. Coil each cable assembly and secure with twine or cable ties.
- 7. Locate one technical manual each TM 10-5419-206-13 and TM 10-5419-206-23P. Place the manuals into a bag made of barrier material and secure with tape.

**Packing Procedures for TRICON Type 5B**

The following packing materials and other items are required to pack TRICON 5B:

Item	Qty
Pad, energy dissipating, 3-in thick (honeycomb), NSN 1670-00-753-3928, 2 Sheets.	2
Lumber, 2-inches x 6-inches x 75- <sup>3</sup> / <sub>4</sub> -inches long	4
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Special Purpose Web, Tiedown NSN 3990-01-204-3009	2
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Fiberboard Sheet 4-feet x 8-feet	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Plywood, ½-inch, 2-sheets	2
Plywood, ¾-inch thick, 4-foot x 8-foot, 2 sheets	2

Use the following procedures to pack TRICON type 5B:

1. Locate TRICON with “WATER DISTRIBUTION SYSTEM ACCESSORY KIT; CO. TYPE 5B...” stenciled on the left door.
2. Open doors and remove everything from the TRICON. This should include two small size reusable containers marked 5B BIN #1 and 5B BIN #2, as well as two plywood covers. Set the reusable containers with covers, aside. Ensure TRICON interior is clean and dry.
3. Work each barrel bolt mechanism (two per container) on the door to ensure proper operation. Line each of the sides and floor of each reusable container with a minimum of two layers of fiberboard material. Cut the fiberboard material so that it will bend with the door on the container when the door is opened.
4. Locate the following items in the quantities specified and carefully pack components into reusable container marked 5B BIN #1.

**Table 8. Container 5B BIN#1 Contents.**

Item	NSN / PN/(CAGE)	Qty
Connection Kit, Small Nozzle	3835-01-433-4199	4
Connection Kit, Large Nozzle	3835-01-433-4196	4

5. Locate the following items in the quantities specified and carefully pack components into reusable container marked 5B BIN #2.

**Table 9. Container 5B BIN#2 Contents.**

Item	NSN / PN/(CAGE)	Qty
Accessory Kit, Pump Unit	4320-01-435-4873	1
Adapter Assembly, 1 In F X 3/8-in NPT	4730-01-415-6403	1
Adapter 3/8 In Internal NPT X 3/4-in M Garden Hose Thread	4730-01-415-6420	1
Pump Unit, Centrifugal	/5-13-6761	1
Power Cable, Class L To Commercial, 20 Amp	6150-01-413-2235	2
Gasket, Coupling Half, QDISC, Cam-Lock, 1-1/2-in	5330-00-360-0595	1
Reducer, Q-Disc, Cam-Lock, 2-in F X 1-1/2-in M, Al	4730-00-889-2382	4

6. Fill all voids in the reusable containers to secure the items and to create a tight pack. Place two layers of cushioning material over the items in the reusable containers.
7. Retrieve, or fabricate plywood covers in accordance with 9-1-0758 (81337). Fit the covers into the four corner brackets of the reusable containers.
8. Place the covers on the containers with cleats facing up. Secure with 1/4-inch steel strapping at two locations, running around each of the entire reusable containers.
9. Cut two sheets of the 3/4-inch thick plywood to lay flat on the floor of the TRICON, tight to all sides, and so that the doors will close tight against the front edges.
10. Install two each tiedown straps on the rear vertical uprights at the paint mark that is approximately 3 to 4 inches lower than the two stacked containers. Make sure that the ratchet end of the strap will connect to the front of the container. Position the straps so that they are out of the way when placing the reusable container into the TRICON.
11. Using a forklift, place reusable container marked 5B BIN #2 on top of the reusable container marked 5B BIN #1.
12. Using a forklift, place the two containers inside the TRICON.
13. Cross the previously attached tiedown straps and attach to the front corner tiedown brackets of the container. Make sure that the straps are not caught up on any obstruction and are properly tightened. Fold loose ends of straps and secure with nylon wire zip ties.
14. Place four each 2-inch x 6-inch x 75 3/4-inch pieces of lumber in front of the containers as shown.
15. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.
16. Close and secure TRICON door.

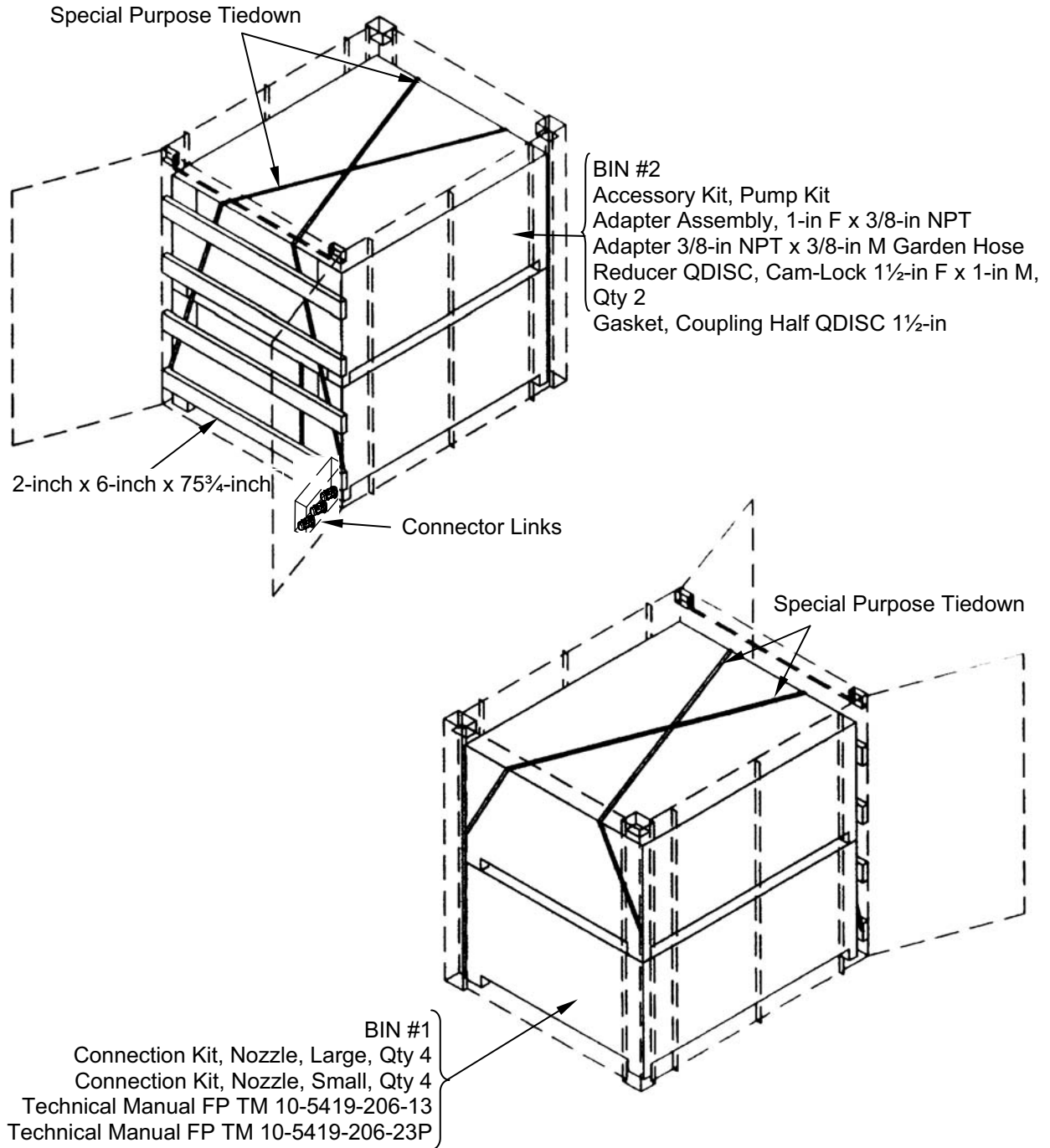


Fig 2. Field Packing Water Distribution System Accessory Kit Type 5B.

END OF WORK PACKAGE



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**FORCE PROVIDER**  
**PREPARATION FOR MOVEMENT - FUEL STORAGE AND DISTRIBUTION SUBSYSTEM**

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**GENERAL**

Following are instructions for the preparation for movement and field packing of the fuel storage and distribution subsystem equipment. Packing procedures for the Prime Power Fuel Kit (TRICON 7C) are also included. Use applicable portions of this WP as determined by the equipment to be prepared and packed. Refer to WP 0029 00 and WP 0091 00 for equipment illustrations, as necessary.

Coordinate the shutdown of the fuel distribution site with personnel of the serviced subsystems to ensure fuel is available as long as needed.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Replace damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON covered in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL (TM 10-5419-206-23P, WP 0002 00).

**PREPARATION FOR MOVEMENT OF FPFS EQUIPMENT**

The following procedures outline the steps to prepare the FPFS for movement.

1. Cease fueling operations after all fuel requirements have been met.



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**WARNING**

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Some fuel spillage may occur whenever couplings are opened. Be prepared to collect residual fuel from hose with a pail and rags. Failure to observe this warning may result in environmental and equipment contamination, as well as potential fire hazard.



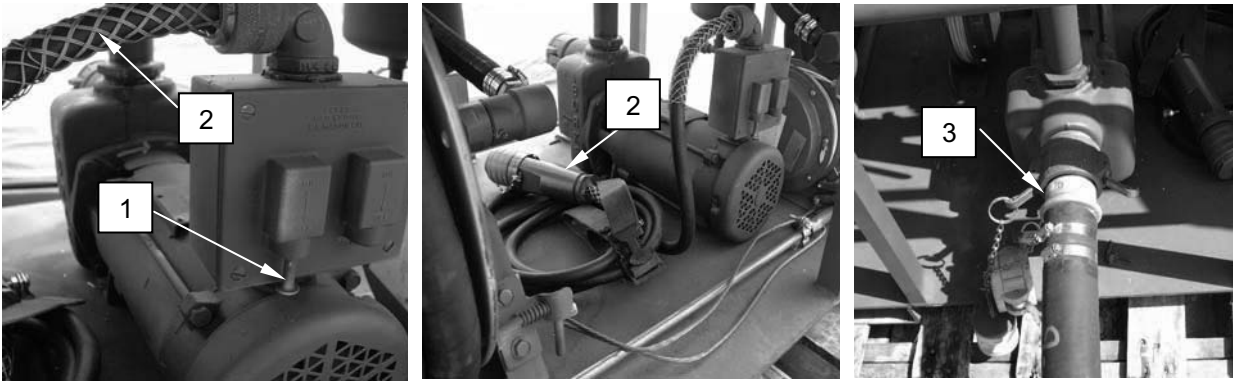
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**WARNING**

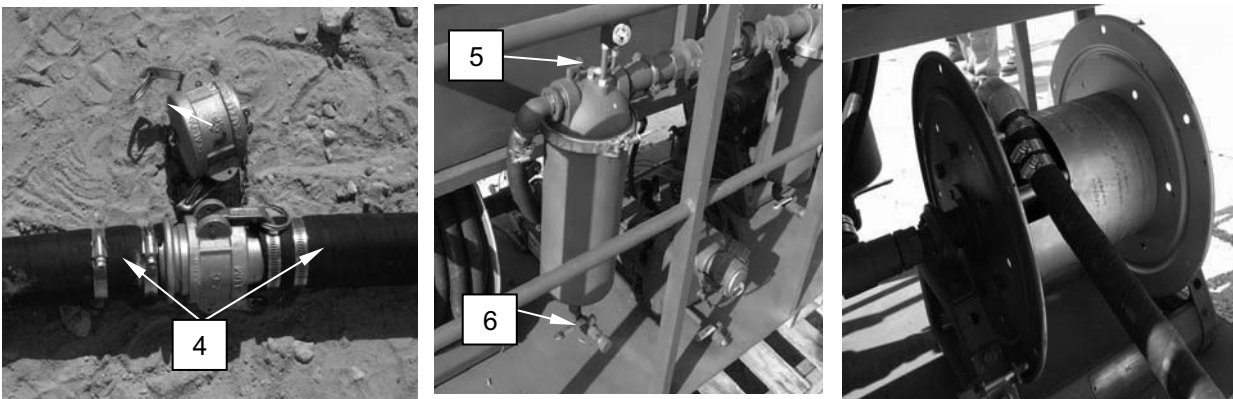
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Some of the equipment to be lifted and moved is heavy. To avoid injury due to heavy lifting, two persons are required where indicated to perform the following procedures.

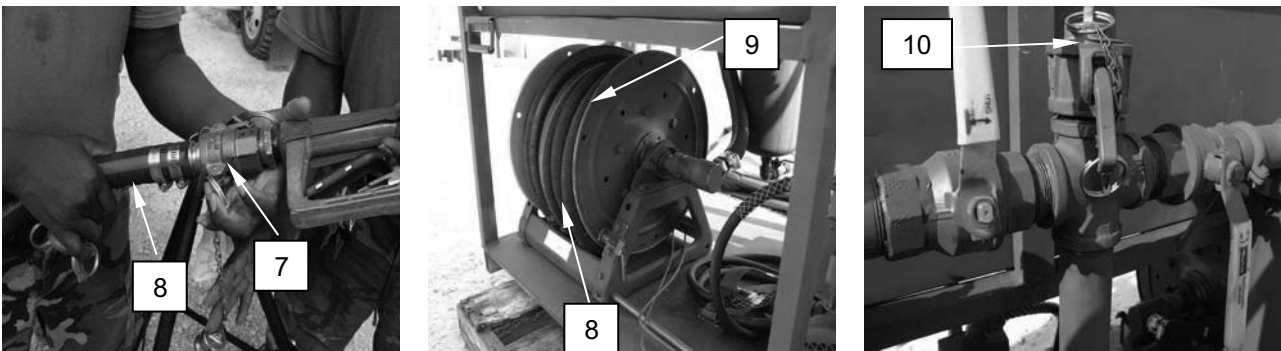
2. Prepare the FPFS for storage or shipment as follows:
  - a. Turn OFF the power Switch (1).
  - b. Turn off the J2 Connector circuit breaker in the PDISE M-40. (Refer to TM 10-8340-224-13.)
  - c. Disconnect pump assembly power cord (2) from 40-A power cable and secure as shown.
  - d. Using two persons disconnect the 2-inch fuel feeder hose (3) from the FPFS fuel pump and drain fuel in hose into an approved fuel container. Raise the end of the hose to stop the flow momentarily to switch containers, if necessary. Be prepared to collect residual fuel from hose with a pail and rags.



- e. Separate the six, 2-inch x 5-foot fuel feeder hoses (4) and set aside.
- f. Open vent (5) on top of filters.
- g. Place a container under the drain valve (6) of each filter and open the drain valve.
- h. Unreel entire length of distribution hoses. Disconnect nozzles (7) from hoses (8) and drain fuel in hose into an approved fuel container. Raise the end of the hose to stop the flow momentarily to switch containers, if necessary. Be prepared to collect residual fuel from hose with a pail and rags.

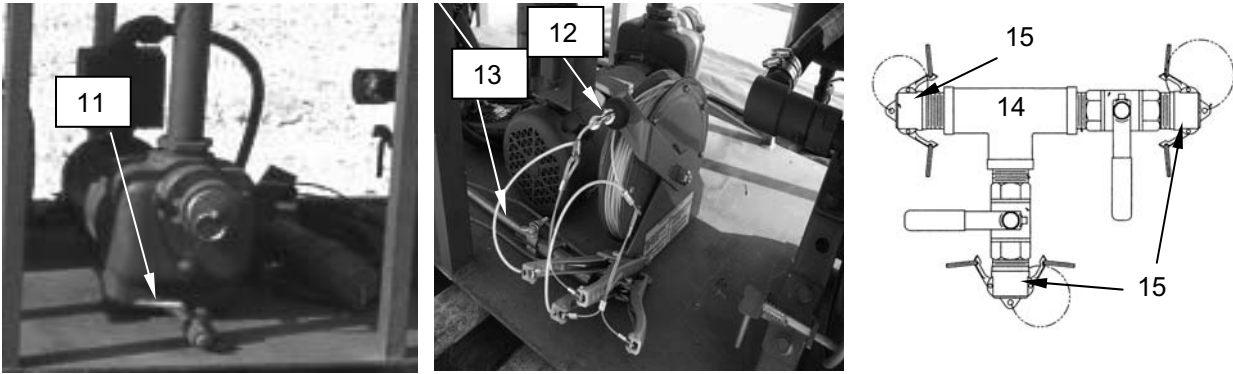


- i. Reel the fuel distribution hoses (8) back onto the reel (9).
- j. Open priming port (10) and place a container under the pump drain valve (11).



- k. Open pump drain valve (11).
- l. Reel grounding cables (12) back onto the cable reel and recover ground rod (13).
- m. Disconnect fuel distribution Tee (14) and install coupling half caps (15).





**PREPARATION FOR MOVEMENT OF TANK ASSEMBLY, FABRIC, COLLAPSIBLE, 10,000 GALLON**

Empty the tanks and prepare them for storage or shipment in accordance with TM 5-5430-210-12.

**FIELD PACKING FUEL DISTRIBUTION KIT TRICON TYPE 7B**

This paragraph provides information to pack equipment into TRICON 7B. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one type 7B TRICON. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

- For a complete inventory of TRICON type 7B refer to Table 1, WP 0029 00.
  - For information and illustrations of fuel distribution equipment refer to WP 0091 00.
  - For information and illustrations of the 10,000-gallon collapsible tank refer to TM 5-5430-210-12.
  - For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.
- Equipment must be clean, dry, and debris-free before packing.

Prepare fuel distribution equipment for packing as described below.

1. Prepare the following components of the FPFS for packing as follows:

**Table 1. FPFS Components.**

Component	NSN / Part Number	Quantity
Hose Assembly, 2-inch x 5-foot M x F	9-1-0591	6
Fuel Distribution Tee Assembly	9-1-0593	1
Rod, Ground, Sectional, Type III, Class B, w/attachments	5975-00-878-3791	1
Stand Assembly, Distribution	4930-01-120-7426	1
Nozzle, Fuel, Force Provider Fuel System	9-1-0629	2
Valve Assembly, 2-inch, Angle	4820-01-167-6550	2
Cover, Force Provider Fuel System	9-1-0628	1

- a. Individually wrap the valves, tee, stand and fuel nozzles in a layer of cushioning material and secure with tape.
- b. Place valves, Tee, and fuel nozzles into barrier material envelopes saved during unpacking.
- c. Wrap each 2-inch x 5-foot hose coupling in two layers of cushioning material and secure in place with tape.

- d. Wrap each 2-inch x 5-foot coupling in grease proofed, waterproofed, barrier material, and secure with tape.
- e. Place the ground rod with the following attachments into a close fitting fiberboard container with dimensions of 39½-inches long x 2<sup>3</sup>/<sub>4</sub>-inches wide x 2-inches high:

**Table 2. Ground Rod Assembly Components.**

Item	Qty
Rod Sections	3
Driving Stud	1
Clamp 1/08	1
Cable, stranded copper bare 6AWG x 72-inches	1
Ground Terminal	1

- f. Secure all components within the fuel system assembly storage tray and use cushioning and dunnage as required to insure that components are protected from damage during transport.
  - g. Place cover over pump assembly.
2. Position the FPFS in proximity of TRICON 7B.
  3. Prepare the following components of the 10,000-Gallon Fuel Tank for packing as follows:

**Table 3. 10,000-Gallon Fuel Tank Components.**

Component	NSN / Part Number	Quantity
Berm Liner, 10,000 Gallon Fabric Tank	RCF-10-K-LB-OB (1DFD0)	1
Hose Assy, QDISC, Cam-Lock, 4 In X 10 Ft, Filler/ Discharge	5061-F (1DFD0)	1
Vent Fitting Assembly	4965F (1DFD0)	1
Elbow, QDISC, Cam-Lock, 4 In F X4 In F	4963CF14 (1DFD0)	1
Elbow, QDISC, Cam-Lock, 4 In F X4 In M	4963CF7 (1DFD0)	1
Hose Assembly, QDISC, Cam-Lock, 2In X 10 Ft, Berm Liner	5059 (1DFD0)	4
Hose Assembly, QDISC, Cam-Lock, 2In X 8 Ft, Tank Drain	5059C-F (1DFD0)	2
Valve Assembly, Ball, 4 In, Filler/Discharge	5060 (1DFD0)	1
Valve Assembly, Ball, 2 In, Tank And Berm Liner	5060-2 (1DFD0)	4
O-Ring	5331-00-291-3085	1
O-Ring	5330-00-364-9862	2
Gasket, Flange	5330-01-262-5120	2
Gasket, Cam-Lock, 2 In	5330-00-612-2414	1
Gasket, Cam-Lock, 4 In	5330-00-899-4509	2
Lifting Sling, 2 In X 10 Ft	EE-1-2PT-OB (1DFD0)	1
Tank, Fabric, Collapsible, 10k Gallon	RCF-10-K-F (1DFD0)	1
Emergency Repair Kit, Type I	I 2263-T2-OB (1DFD0)	1
Technical Manual, 10,000 Gallon Fabric Tank, Fuel Storage	TM 10-5430-242-12&P	1

- a. Wrap each hose coupling in two layers of cushioning material and secure in place with tape.
- b. Wrap each coupling in barrier material and secure in place with tape.
- c. Locate elbows, fittings, vent assembly, and ball valves. Install dust caps and plugs as appropriate. Place a minimum of two wraps cushioning material around each item and secure with tape.
- d. Place each wrapped item in a close-fitting bag of barrier material saved during unpacking.
- e. Locate and place repair kit components, including O-Rings and gaskets, into a durable, re-sealable plastic bag. Place plastic bag into a barrier material bag saved during unpacking.

- f. Locate Technical Manual, 10,000-Gallon Fabric Tank, Fuel Storage (TM 10-5430-242-12&P) and place it into a plastic bag.
  - g. Place the elbows, valves, fittings, repair kit, miscellaneous items and technical manual into a close-fitting fiberboard container.
  - h. Locate the tank, fabric, collapsible and berm liner and unroll the fabric tank on a clean flat surface. Ensure that the tank is clean and dry.
  - i. Wrap the fittings with barrier material and secure with tape.
  - j. Place a minimum of two wraps of cushioning material over fittings and secure with tape.
  - k. Place a piece of cardboard over each fitting to protect the bag when rolled up.
  - l. Neatly fold and roll the bag such that it is not more than 33-inches in diameter and 60-inches long.
  - m. Unroll the berm liner and repeat this process.
  - n. Locate twelve each lead, electrical, grounding cable.
  - o. Wrap the connectors on each end of grounding cable leads in one layer of cushioning material and secure with tape.
  - p. Wrap each connector end in barrier and secure with tape.
  - q. Place wrapped leads in a close-fitting fiberboard container and secure with tape.
1. Locate the following items in the quantities indicated and prepare for packing as described below:

**Table 4. Fuel Distribution System Components.**

Component	NSN / Part Number	Quantity
Valve Assembly, Ball, QDISC, 4 IN, MC X FC	4820-01-210-5605	6
Tee Assembly, 4 Inch, Fuel, FC X FC X MC	4730-01-415-3846	1
Coupling Half, Q-Disc, Cam Lock, Cap, Type I , 4 IN, AL	4730-00-640-6156	3
Coupling Half, Q-Disc, Cam Lock, Plug, Type X, 4 IN, AL	4730-00-640-6188	3
Reducer, QDISC, Cam-Lock, 2 IN FC X 4IN MC, AL	4730-01-186-0821	2
Reducer, QDISC, Cam-Lock, 4 IN FC X 2IN MC, AL	4730-01-064-0560	2
Reducer, QDISC, Cam-Lock, 2 IN FC X1-1/2 IN MC, AL	4730-00-951-3295	2

- a. As applicable, install all dust caps and plugs.
  - b. Place a minimum of two wraps cushioning material around each item. Secure cushioning material in place with tape.
  - c. Place each wrapped item in a close-fitting bag, or barrier material. Secure with tape.
  - d. Place couplings and reducers in a single close-fitting fiberboard container. Secure with tape.
2. Locate the following miscellaneous items in the quantities indicated and prepare for packing as described below:
- a. Locate two fire extinguishers and wrap each in cushioning material. Secure in place with tape.
  - b. Place each wrapped fire extinguisher inside a close-fitting fiberboard container saved during unpacking. Secure the container with tape.

- c. Locate one each drip pan, absorbent, spill cleanup, four each absorbent material, spill cleanup (unused) and one each sorbent, oil (boom), 8-inch x 10-foot. Items require no preparation.
- d. Place each or quantity absorbents or, moisture susceptible items in a barrier bag. Seal closure, evacuating as much air as possible.
- e. Place prepared items in a single close fitting fiberboard container. Secure with tape.
- f. Locate four each pail, polyethylene 5-gallon with lid.
- g. Nest pails and lids. Place dunnage between them so that they do not get jammed together.
- h. Place the items inside a close fitting fiberboard box that. Secure with tape.
- i. Locate one shovel, round point, D-Handle. Wrap shovel head with a minimum of two wraps of cushioning material and secure in place with tape.
- j. Locate ten can, fuel, military, plastic, 5-gallon. Loosen the top of each can to vent and allow air flow during transport. Secure top to fuel can with nylon cable zip tie.
- k. Locate ten spouts, fuel can, flexible. Wrap each of the items in cushioning material and secure with tape. Place items in a bag and seal.
- l. Locate eight ground rods. Place each ground rod with the following attachments into a close fitting fiberboard container with dimensions of 39½-inches long x 2¾-inches wide x 2-inches high:

**Table 5. Ground Rod Components.**

Item	Quantity
Rod Sections	3
Driving Stud	1
Clamp 1/08	1
Cable, stranded copper bare 6awg x 72"	1
Ground Terminal	1

- m. Commercial fiberboard container 39½-inches long x 2¾-inches wide x 2-inches high is acceptable. If provided in the manufacturer's original box, this box should be reused if possible.
- n. Locate one each Force Provider technical manual (TM 10-5419-206-13 / TM 10-5419-206-23P).
- o. Place the technical manuals in a bag made with barrier material and secure with tape.

**Packing Procedures for TRICON Type 7B**

The following packing materials and other items are required to pack TRICON 7B:

**Table 6. TRICON Type 7B Packing Material.**

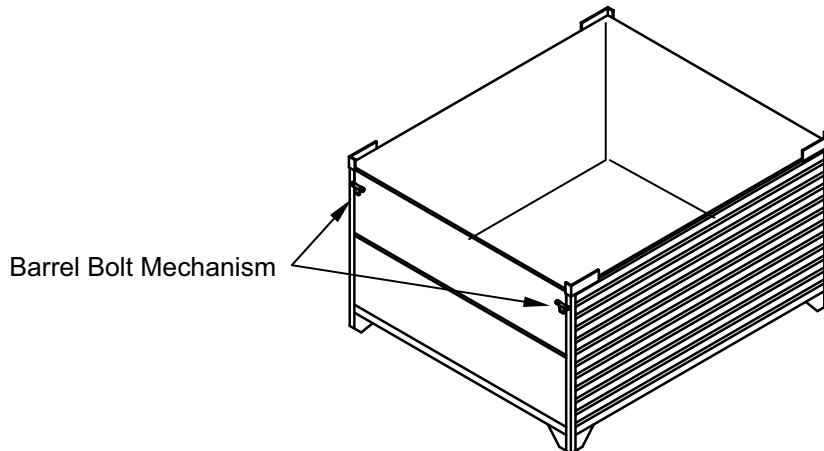
Item	Qty
Pad, energy dissipating, 3-in thick (honeycomb), NSN 1670-00-753-3928	2
Lumber, 2-inch x 6-inch x 75 ¾-inches long	3
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Special Purpose Web, Tiedown NSN 3990-01-204-3009	4
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Corrugated Fiberboard Stock, ASTM-D4727	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required

**Table 6. TRICON Type 7B Packing Material – Continued.**

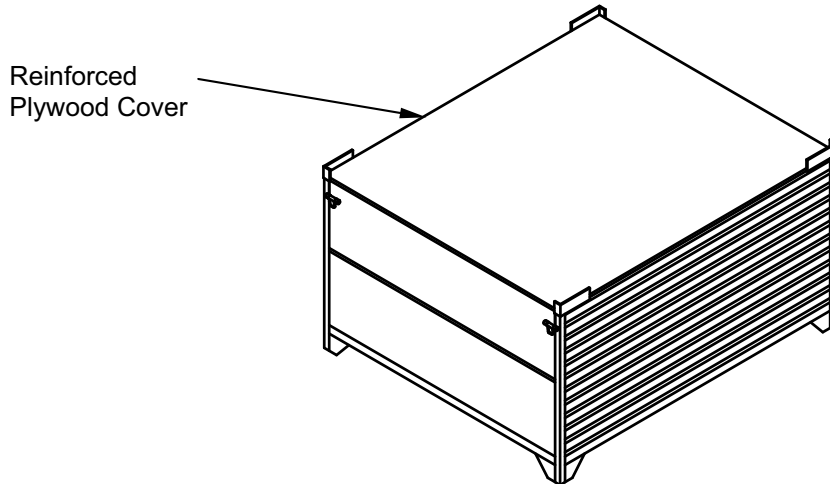
Item	Qty
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Plywood, 1/2-inch	2
Plywood, 3/4-inch	2

Use the following procedures to pack TRICON type 7B:

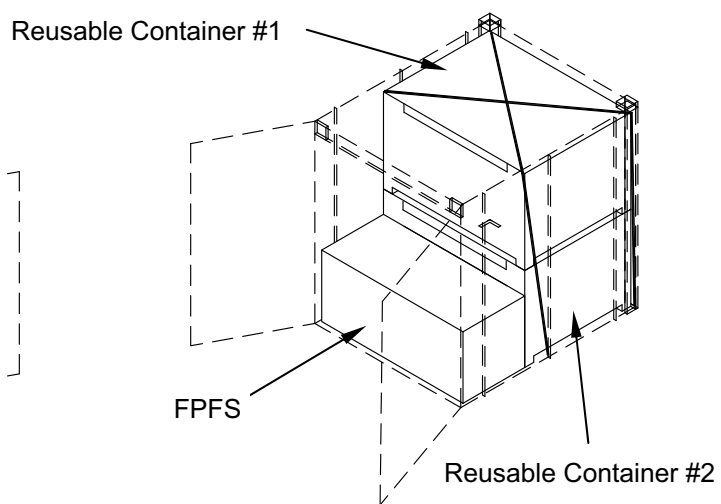
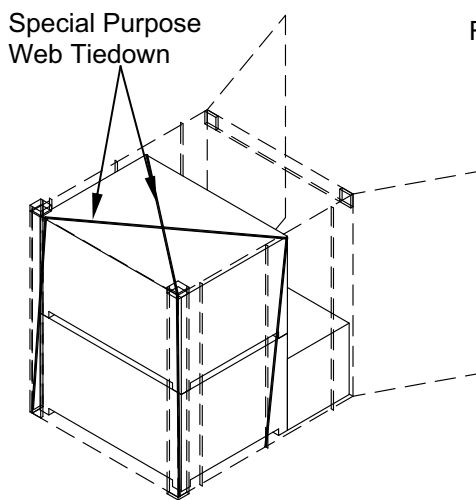
1. Locate TRICON with “FUEL DISTRIBUTION KIT; CO. TYPE 7B... “ stenciled on the left door.
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place two sheets of 3/4 -inch thick plywood so that they will lay flat on the floor of the TRICON, tight to all sides, and so that the doors will close tight against the front edges.
4. Locate two Container, Reusable, Bulk Equipment, Half Size. Work each barrel bolt mechanism (2 per container) on the door so that it is easily opened and closed. Line the sides and floor of each container with a minimum of two layers of fiberboard. Cut the Fiberboard so that it will bend with the door on the container when the door is opened. Mark as “7B Bin #1” and “7B Bin #2”.



5. Locate two each tank assemblies, fabric, collapsible, fuel storage, 10,000-gallon.
6. Load one complete fuel tank system into each of the reusable containers. If a sling is provided with the tank assembly, it shall be used to place the tank into the container.
7. Locate twelve each lead, electrical, grounding cable, two fire extinguishers, eight ground rods, ten spouts, fuel can, flexible, one shovel, round point, D-Handle, and two technical manuals (TM 10-5419-206-13, and TM 10-5419-206-23P). Place items in reusable container marked “7B Bin #1”.
8. Locate six valve assemblies, ball, QDISC, 4-inch MC x FC, one Tee Assembly, 4-inch, fuel, FC x FC x MC and one box of miscellaneous reducers, and coupling halves as prepared in paragraph 3 c. Place items in reusable container marked “7B Bin #2”.
9. Place a layer of cushioning material over the tanks and install the 1/2-inch plywood covers (reinforced using 1-inch x 6-inch lumber braces, as shown in drawing 9-1-0758 (81337).
10. Locate two special purpose web tiedowns. Attach the non-ratcheted end of the tiedown straps on the rear vertical uprights at a height that is approximately 3 to 4 Inches lower than the two stacked containers. Make sure that the ratchet end of the strap will connect to the front of the container. Position the straps out of the way before placing the reusable container into the TRICON.

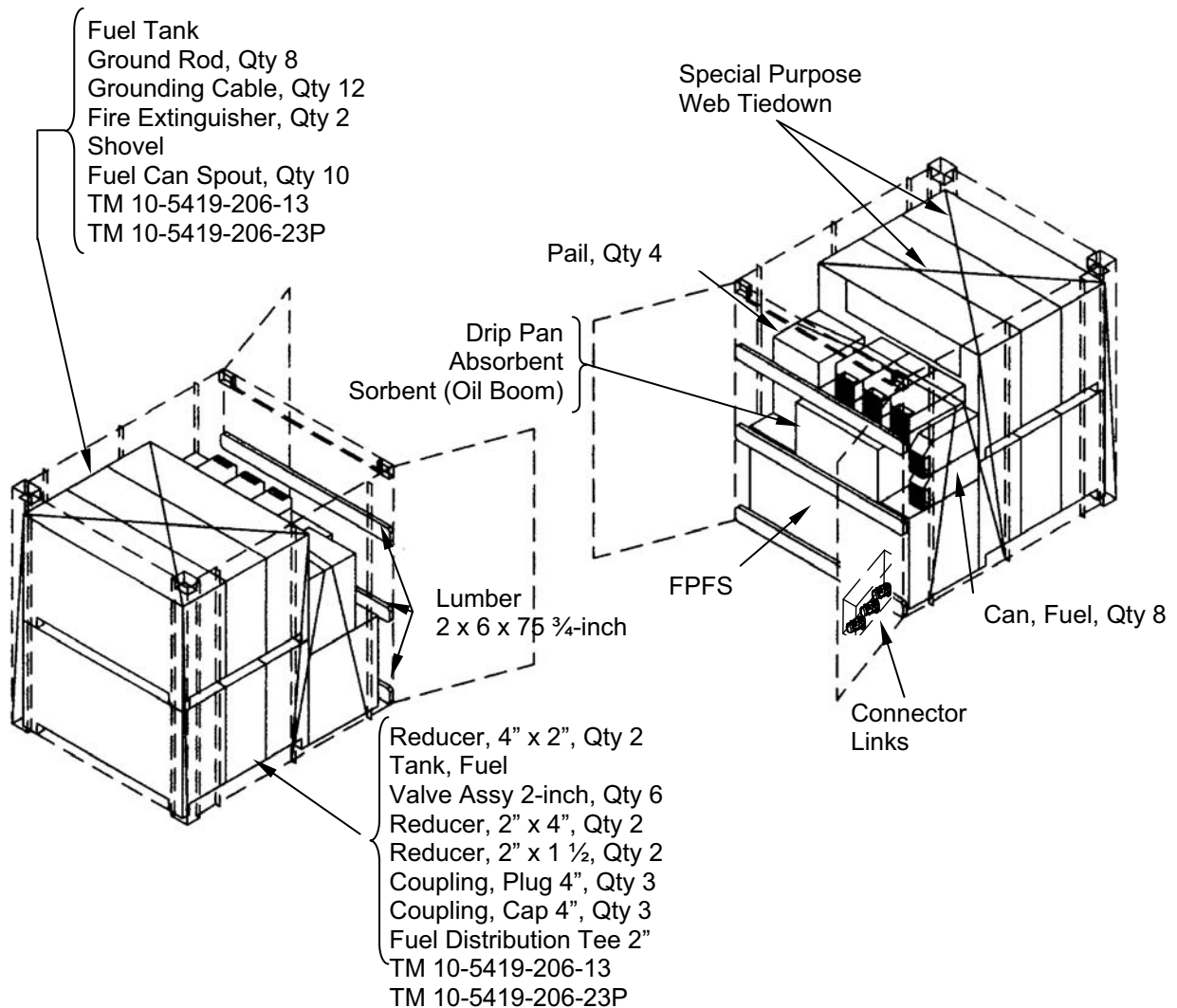


11. Stack reusable containers #1 on top of reusable containers #2. Place into TRICON container, against the rear wall. Cross the tiedown straps over the reusable containers and secure to tiedown loop along the floor nearest the reusable containers. Neatly fold loose end of strap and secure with nylon cable zip ties.
12. Locate two special purpose web tiedowns. Attach the tiedown straps to the floor tiedown loops between the reusable container and the front of the container. Position the straps so that they are out of the way when loading the container.
13. Locate the Force Provider Fuel System (FPFS), and two cans, fuel, military, plastic, 5-gallon. Place the two fuel cans in the lower portion of the FPFS. Secure in place with honeycomb material, and nylon cable zip ties.
14. Using a forklift, place the FPFS into the TRICON in front of the reusable containers. Place honeycomb material between reusable containers and FPFS. Secure with one tiedown strap. Fold the loose end of the strap, and secure with nylon cable zip tie.



15. Locate box with four pail, polyethylene, 5-gallon with lid. Place a sheet of honeycomb material on top of the FPFS. Place box with pails on top to the fuel system, on the left side.
16. Locate box with drip pan, absorbent, spill cleanup, four each absorbent material, spill cleanup and one each sorbent, oil (boom), 8-inch x 10-foot. Place on top of fuel system, next to the pails.

17. Locate eight cans, fuel, military, plastic, 5-gallon. Stack fuel cans on top of the FPFS. Place on the right hand side.
18. Secure items with honeycomb material. Secure in place with one special purpose web tie down. Neatly fold the loose end of the strap, and secure with nylon cable zip tie.
19. Locate three each 2-inch x 6-inch x 75<sup>3</sup>/<sub>4</sub>-inch lumber brace. Insert in front of the contents of the TRICON as shown.
20. Install blocking and bracing as required, to secure the contents inside the TRICON. Blocking, bracing, fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
21. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door. Close and secure TRICON doors.



**Fig 1. Field Packing Fuel Distribution Kit Type 7B.**

**FIELD PACKING PRIME POWER FUEL TYPE 7C**

This paragraph provides information to pack equipment into TRICON 7C. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one type 7C TRICON. Depot shelves, shoring beams,

packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 7C refer to Table 2, WP 0029 00.  
 For information and illustrations of fuel distribution equipment refer to WP 0029 00 and WP 0091 00.  
 For information and illustrations of the 10,000-gallon collapsible tank refer to TM 5-5430-210-12.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

Prepare prime power fuel equipment for packing as described below.

1. Locate two each 10,000-gallon collapsible fabric fuel storage tanks. Each tank assembly consists of the following subcomponents:

**Table 7. 10,000-Gallon Fuel Storage Tank Components.**

Item	NSN/PN/(CAGE)	Qty
Berm Liner, 10,000-Gallon Fabric Tank	/RCF-10-K-LB-OB/(1DFD0)	1
Hose Assy, QDISC, Cam-Lock, 4 In X 10 Ft, Filler/Discharge	/5061-F/(1DFD0)	1
Vent Fitting Assembly	/4965F/(1DFD0)	1
Elbow, QDISC, Cam-Lock, 4 In F X 4 In F	/4963CF14/(1DFD0)	1
Elbow, QDISC, Cam-Lock, 4 In F X 4 In M	/4963CF7/(1DFD0)	1
Hose Assembly, QDISC, Cam-Lock, 2 In X 10 Ft, Berm Liner	/5059/(1DFD0)	4
Hose Assembly, QDISC, Cam-Lock, 2 In X 8 Ft, Tank Drain	/5059CF/(1DFD0)	2
Valve Assembly, Ball, 4 In, Filler/Discharge	/5060/(1DFD0)	1
Valve Assembly, Ball, 2 In, Tank And Berm Liner	/5060-2/(1DFD0)	4
O-Ring	5331-00-291-3085	1
O-Ring	5330-00-364-9862	2
Gasket, Flange	5330-01-262-5120	2
Gasket, Cam-Lock, 2 In	5330-00-612-2414	1
Gasket, Cam-Lock, 4 In	5330-00-899-4509	2
Lifting Sling, 2 In X 10 Ft	/EE-1-2PT-OB/(1DFD0)	1
Tank, Fabric, Collapsible, 10,000-Gallon	/RCF-10-K-F/(1DFD0)	1
Emergency Repair Kit Type II	/2263-T2-OB/(1DFD0)	1
Technical Manual, 10,000-Gallon Fabric Tank, Fuel Storage	TM 10-5430-242-12&P	1

2. Prepare the hose assemblies by wrapping each coupling in two layers of cushioning material. Secure the material in place with tape. Then wrap each coupling in grease proofed, waterproofed barrier material and secure in place with tape.
3. Prepare elbows, fittings, vent fitting assembly, O-rings, gaskets, and ball valve assemblies by installing dust caps and plugs where required. Wrap each item in a minimum of two wraps of cushioning material. Secure the material with tape. Place each item (combine O-rings and gaskets) into a bag made of barrier material. Secure with tape.
4. Locate the tank emergency repair kit. Place remaining, unused kit components in plastic bags together into the original container, or a bag made of barrier material. Secure with tape.
5. Locate the 10,000-gallon tank technical manual TM 10-5430-242-12&P and place it in a bag made of barrier material. Seal the material with tape.
6. Place the elbows, valves, fittings, repair kit, and miscellaneous items, as well as technical manual into a close fitting fiberboard box. Secure box with tape.
7. Locate two 10,000-gallon tanks, fabric, collapsible and berm liners and prepare each as follows:



- a. Unroll the fabric tank on a clean flat surface.
  - b. Ensure that the tank is clean and dry.
  - c. Wrap the fittings in cushioning material. Secure material with tape.
  - d. Place on the fittings a minimum of two wraps of barrier material. Secure material with tape.
  - e. Place a piece of cardboard over each fitting to protect the tank when rolled up.
  - f. Apply talc (if available) to all external surfaces of the tank.
  - g. Fold and roll the tank so that it is not more than 33-inches in diameter and 60-inches long.
8. Unroll the berm liner and repeat this process in a. through g. above.
9. Prepare the hose assemblies by wrapping the couplings in two layers of cushioning material. Secure the material with tape. Then wrap each coupling into barrier material and secure material with tape.
10. Locate the following items and prepare as described:

**Table 8. Fuel Distribution System Components.**

Item	NSN/PN/(CAGE)	Qty
Valve Assembly, Ball, QDISC, 4 In, MC X FC	4820-01-210-5605	2
Coupling Half, QDISC, Cam Lock, Female EPT, Type VII, 1-1/2 In, AI	4730-00-203-1010	2
Reducer, QDISC, Cam-Lock, 2 In FC X 4 In MC, AI	4730-01-186-0821	2
Reducer, QDISC, Cam-Lock, 4 In FC X 2 In MC, AI	4730-01-064-0560	2
Reducer, QDISC, Cam-Lock, 2 In FC X 1-1/2 In MC, AI	4730-00-951-3295	2

- a. Install dust caps and plugs as required.
  - b. Place minimum of two wraps of cushioning material around each item and secure material in place with tape.
  - c. Place each wrapped item in a bag of barrier material. Secure material with tape.
11. Locate two fire extinguishers and prepare as follows:
- a. Wrap each fire extinguisher in cushioning material. Secure material with tape.
  - b. Place each wrapped fire extinguisher inside original shipping box, or a new, close-fitting fiberboard container. Secure the container with tape.
12. Locate the following items in the quantity required and prepare as described below:

**Table 9. Fuel Spill Cleanup Materials.**

Item	NSN/PN/(CAGE)	Qty
Drip Pan, Absorbent, Spill Cleanup	7930-01-316-6008	1
Absorbent Material, Spill Cleanup	7930-00-269-1272	4
Sorbent, Oil (Boom), 8-In X 10-Ft	9330-01-281-0337	1

- a. Unused drip pans do not require any special packaging. Retain the items in their existing commercial packaging. Dispose of used items in accordance with local regulations.
- b. Prepare the absorbent material and sorbent, oil (boom) by placing each or quantity items in a barrier bag and seal with tape.

- c. Place prepared items in a single close fitting fiberboard container and seal container with tape.
- 13. Locate one each shovel, round point. Wrap shovel head with a minimum of two wraps of cushioning material and secure material with tape.
- 14. Locate fifteen each, cans, fuel, military, plastic, Five-gallon. Loosen the top of each can to vent and allow air flow during transport. Secure the cap to the fuel can with nylon cable zip ties.
- 15. Locate fifteen each spouts, fuel can, flexible. Wrap each in cushioning material and seal with tape. Place items in a bag made of barrier material and secure the material with tape.

**Packing Procedures for TRICON Type 7C**

The following packing materials and other items are required to pack TRICON 7C:

**Table 10. TRICON Type 7C Packing Materials.**

Item	Qty
Pad, energy dissipating, 3-in thick (honeycomb), NSN 1670-00-753-3928, 2 Sheets.	2
Lumber, 2-inches x 6-inches x 75- <sup>3</sup> / <sub>4</sub> -inches long	3
Steel Strapping, 1/2-Inch, (ASTM D-3953)	As required
Special Purpose Web, Tiedown NSN 3990-01-204-3009	2
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Fiberboard Sheet 4-feet x 8-feet	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Plywood, 1/2-inch, 2-sheets	2
Plywood, 3/4-inch, 2 sheets	2

Use the following procedures to pack TRICON type 7C:

1. Locate TRICON with “PRIME POWER FUEL KIT; CO. TYPE 7C...” stenciled on the left door.
2. Open doors and remove everything from the TRICON. This should include three reusable bulk equipment containers marked ‘7C BIN #1, 7C BIN #2, and 7C BIN #3’ as well as three plywood covers. Set the reusable containers with covers, aside. Ensure TRICON interior is clean and dry.
3. Cut two sheets of 3/4-inch thick plywood so that the sheets will lay flat on the floor of the TRICON, tight to all sides, and so that the doors will close tight against the front edges.
4. Locate reusable bulk equipment container marked ‘7C BIN #1’. Ensure it is empty, clean, and dry. Work the barrel bolt mechanisms (2 per container) on the door to ensure they operate properly.
5. Line the sides and floor of the container with a minimum of two layers of fiberboard. Cut the fiberboard so that it will bend with the door on the container when the door is opened.
6. Locate the following items in the quantities specified and pack into reusable container 7C BIN #1 as described below:

**Table 11. Container 7C BIN#1 Contents.**

Item	NSN/PN/(CAGE)	Qty
Hose Assembly, Non-Collapsible, Rubber, Liquid Fuel	4720-00-229-0662	4
Valve Assy, Ball, QDISC, 4 In, MC X FC	4820-01-210-5605	2
Coupling Half, QDISC, Cam-Lock, Female, EPT, Type VII, 1-1/2 In	4730-00-203-1010	2
Reducer, QDISC, Cam-Lock, 2 In, FC x 4 In MC	4730-01-186-0821	2
Reducer, QDISC, Cam-Lock, 2 In, FC x 1-1/2 In MC	4730-00-951-3295	2
Reducer, QDISC, Cam-Lock, 4 In FC x 2 In MC	4730-01-064-0560	2
Fire Extinguisher, Dry Chemical, Type I, Class 2, Size 20	4210-00-889-2492	2
Drip Pan, Absorbent, Spill Clean-Up	7930-01-316-6008	1
Absorbent Material, Spill Clean-Up	7930-00-269-1272	4
Sorbent, Oil, Boom, 8-In X 10-Ft	9330-01-281-0337	1
Shovel, Round Point, D Handle, Type 4, Class A, Style 1, Size 2	5120-00-293-3336	1
Spout, Fuel Can, Flexible	7240-00-177-6154	15
Can, Fuel, Military, Plastic, 5-Gal, Color Green, or Tan	7240-01-337-5269 7240-01-337-5268	15

- a. Carefully and neatly pack components into reusable container. Fill all voids in the containers to secure the items and to create a tight pack.
  - b. Place two layers of cushioning material over the items inside the container.
  - c. If original plywood covers are no longer available, fabricate new covers in accordance with 9-1-0758 (Refer to WP 0003 00). The cover shall be sized so that it fits into the four corner brackets of the container.
  - d. Place the cover on the container with cleats facing up. Secure with steel strapping at two locations, running around the entire reusable container.
7. Locate reusable bulk equipment containers marked '7C BIN #2' and '7C BIN #3'. Ensure the containers are empty, clean, and dry. Work the barrel bolt mechanisms (2 per container) on the door to ensure proper operation.
  8. Line the sides and floor of each container with a minimum of two layers of fiberboard. Cut the fiberboard so that it will bend with the door on the container when the door is opened.
  9. Pack both containers as described below:
    - a. Locate two each tank assemblies, fabric collapsible, fuel storage, 10,000-gallon.
    - b. Load one complete fuel tank system into each reusable container. If a sling is provided with the tank assembly, it shall be used to place the tank into the container.
    - c. Fill all voids in the containers to secure the items and to create a tight pack. Place two layers of cushioning material over the items inside the container.
    - d. If original plywood covers are no longer available, fabricate new covers in accordance with 9-1-0758. (Refer to WP 0003 00.) The cover shall be sized so that it fits into the four corner brackets of the container.
    - e. Place the cover on the container with cleats facing up. Secure with steel strapping at two locations, running around the entire reusable container.
  10. Locate two each special purpose web, tiedowns. Attach the non-ratchet end of the straps on the rear vertical uprights, left and right, approximately 3 to 4 inches lower than the two stacked containers.
  11. Position the straps so that they do not interfere with the loading of the reusable containers TRICON.

12. Locate reusable containers marked '7C BIN #1, 7C BIN #2, and 7C BIN #3'. Using a forklift, place reusable container #2 on top of #1 and #3 on top of #2.
13. Using a forklift, place the three stacked containers inside the TRICON.
14. Cross the previously attached straps and attach to the front corner tiedown brackets of the container. Make sure that the straps are not caught up on any obstruction and are properly tightened. Fold loose ends of straps and secure with nylon wire zip ties.
15. Place three each 2-inch x 6-inch x 75-3/4-inch wood braces in front of each reusable container, as shown. Install necessary blocking and bracing, as required, to secure the contents in the TRICON.
16. Ensure that three each TRICON connectors are located in the holder on the lower inside of the right hand container door.
17. Close and secure TRICON doors.

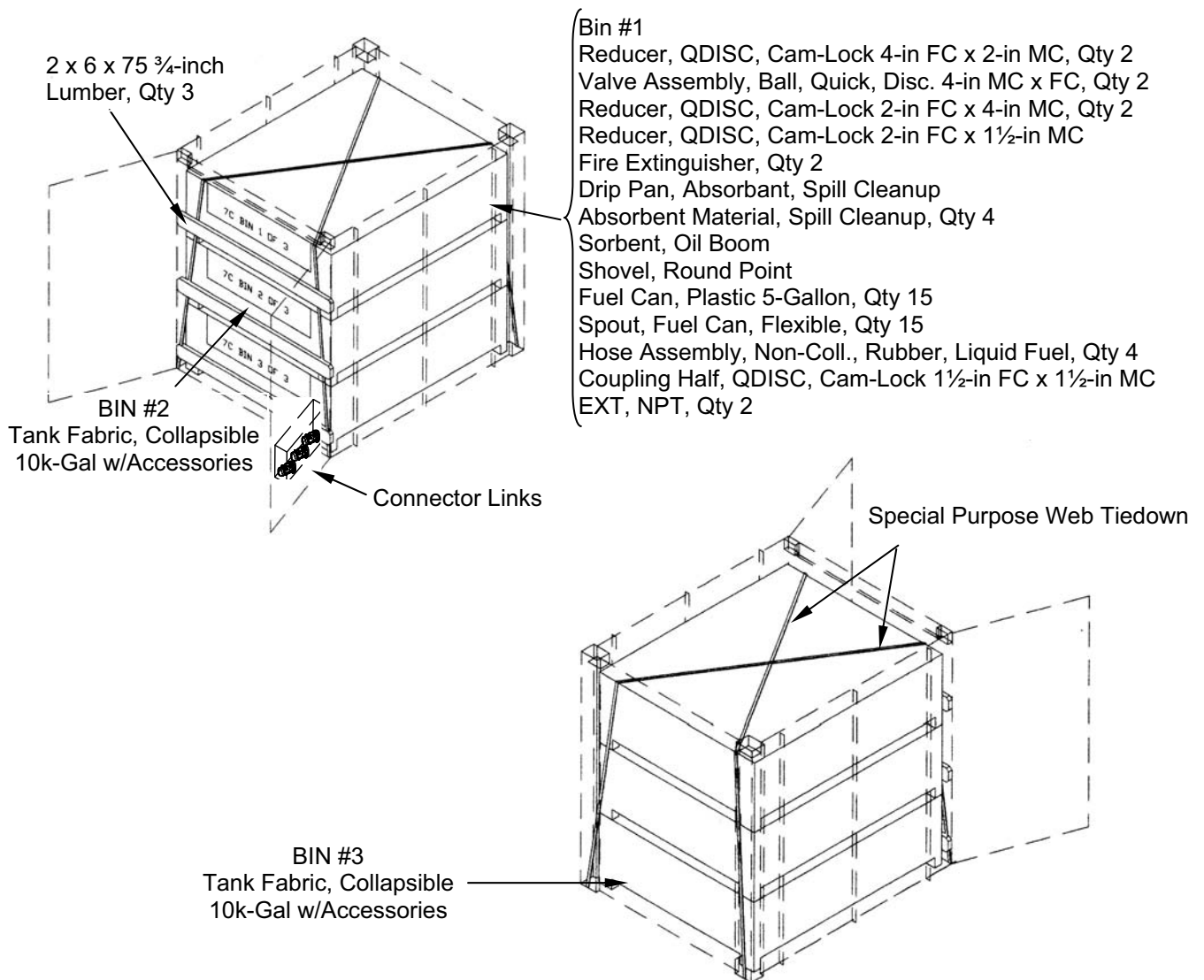


Fig 2. Field Packing Prime Power Fuel Type 7C.

END OF WORK PACKAGE

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**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - WASTEWATER COLLECTION SUBSYSTEM**

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**GENERAL**

Following are instructions for the preparation for movement and field packing of the Wastewater Collection Subsystem equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

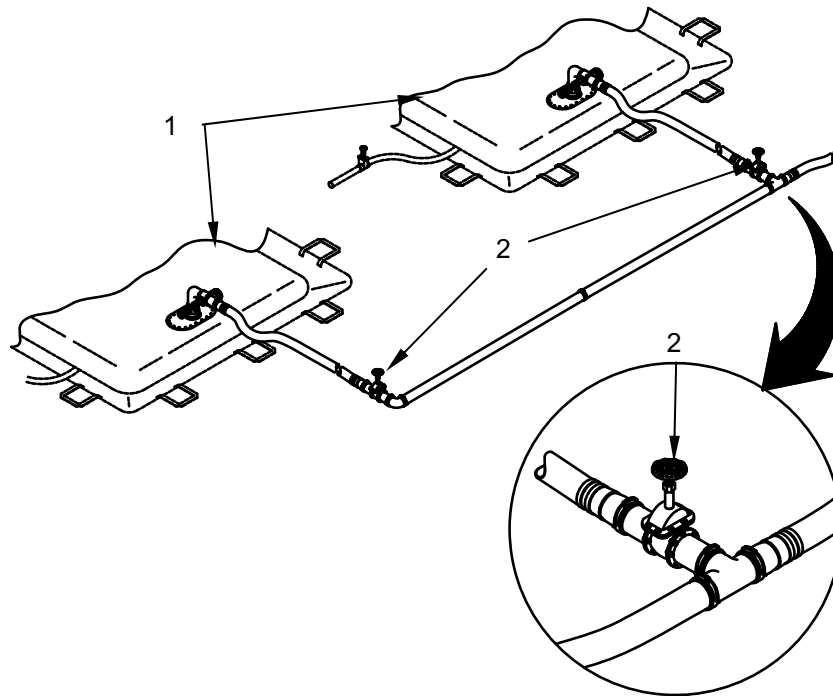
Obtain replacement of damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL Bulk Items List (TM 10-5419-206-23P, WP 0002 00).

Coordinate the shutdown of the Wastewater Subsystem with personnel of the serviced subsystems to ensure wastewater evacuation is available as long as needed.

**WASTEWATER SUBSYSTEM SHUTDOWN AND DISASSEMBLY**

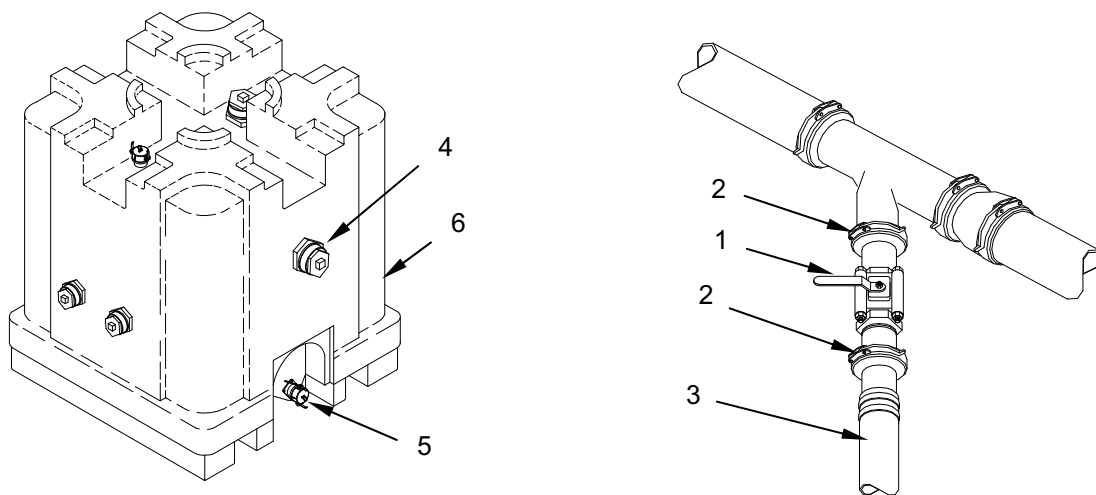
When serviced subsystems have ceased operations, drain the wastewater tanks completely as described in WP 0030 00. Before the wastewater equipment can be disassembled, superchlorination and a system flush of the Water Distribution and Wastewater Collection Subsystems must be conducted as follows:

1. Notify and coordinate with water distribution subsystem personnel, as well as personnel of the serviced subsystems when wastewater tanks (1) have been emptied and the wastewater collection system is ready to collect the superchlorinated water.
2. Water Distribution Subsystem personnel initiate the superchlorination and subsequent system flush.
3. Collect superchlorinated water from serviced subsystems as during normal operation. Make sure both 20,000-gallon Collapsible Fabric Tank(s) (1) receive superchlorinated graywater if both were used for graywater collection during deployment.
4. When all superchlorinated graywater has been collected, drain the wastewater tanks as described in WP 0030 00.
5. Close valves (2) on mainline side of tanks.



6. Disassemble branch legs (Waste Water Connection Assembly, Facilities) as follows:

- a. Close ball valve (1) on each of five branch legs.
- b. Open snap-joint couplings (2) and separate ball valve (1) and drain hose (3).
- c. Remove other end of drain hose (3) from the discharge port on the SEP (4)
- d. Open drain valve (5) on SEP (6) and let tank drain.
- e. Collect branch leg components (except SEP) and position them in a designated location near but not in ISO 8A.



7. Disassemble the tank draining kit, (Waste Water Connection Assy, 125 GPM) if used, after the 20,000-Gallon collapsible fabric tanks have drained, as follows:

**WARNING**

Wear gloves and use caution when closing victaulic snap-joints to avoid injuries due to pinching.

**NOTE**

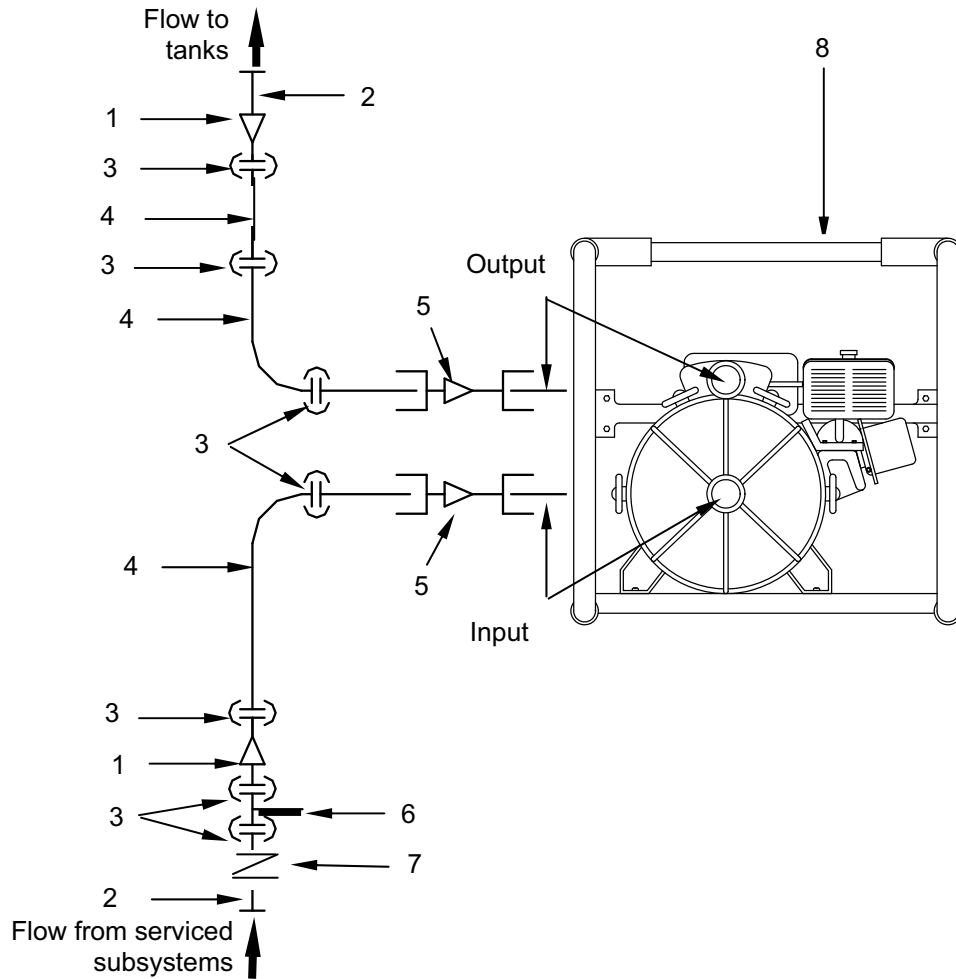
This assembly may be installed on the main collection line, or used to discharge the tanks during tank draining operation. Refer to WP 0030 00 for specific information.

- a. Remove the 4-inch x 2½-inch reducer (1) from the 4-inch main line pipe (2).
- b. Open the 2½-inch coupling clamp (3), and remove the 2½-inch x 10-foot hoses (4) from the reducer (2).
- c. Open the 2½-inch coupling clamp (3), and remove the 2½-inch x 2-inch reducer (5) from the 2½-inch hose (4).
- d. Disassemble the input line in the same manner with parts indicated, removing the 4-inch Tee strainer (6) between the reducer (2) and the 4-inch main line pipe (3) as well as the 2½-inch check valve (7).

**WARNING**

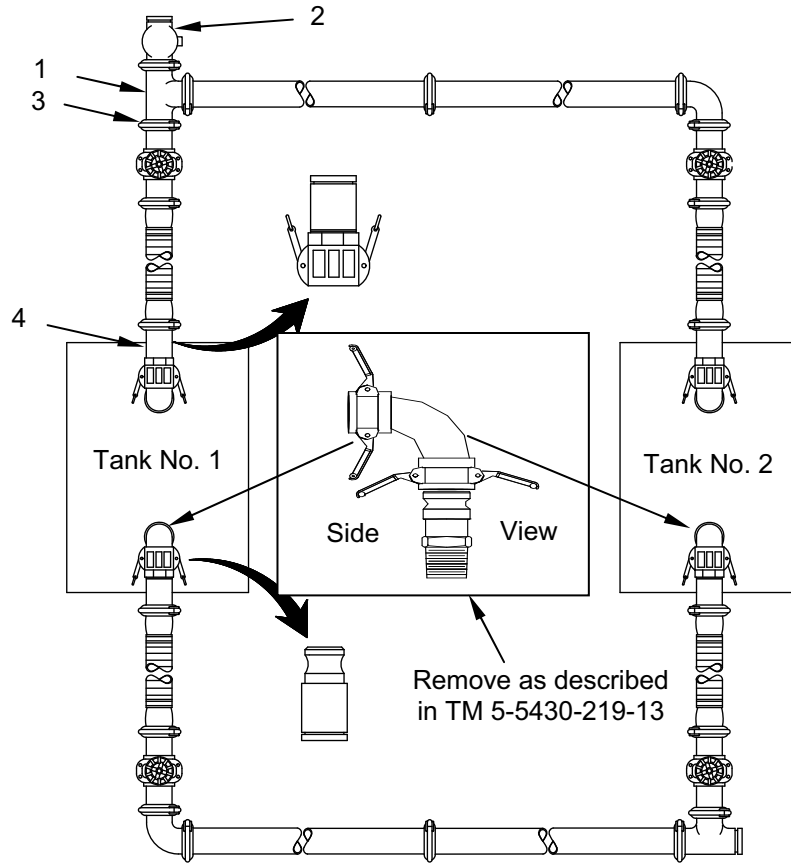
The self priming diesel trash pump has an empty weight of 108 pounds. The prevent injury three persons are required to lift it. Lifting should be accomplished with legs, not backs.

- e. Remove the trash pump (8).



8. Disassemble tank connection kit (Waste Water Connection Assembly, 20,000-Gallon Tank) as follows:
  - a. Separate T (1) and check valve (2) from mainline.
  - b. Open each 4-inch snap-joint coupling (3) between 4-inch grooved T (1) on mainline and discharge side of tank connection kit. Separate all components.
  - c. Remove 4-inch cam-lock x 4-inch grooved end adaptors (4) from filler and discharge elbows of each tank.
  - d. Whenever possible, a compressed air supply should be used to air dry the insides of tanks (3) prior to storage or shipment. This may be accomplished by passing compressed air into filler or discharge fitting and allowing it to escape through the vent or the unused filler/discharge fitting. The length of time required to dry tanks will depend on ambient conditions and amount of residual moisture left in tank.
  - e. Prepare tanks for storage or shipment in accordance with TM 5-5430-226-12.
  - f. Collect all components separated by type and position in a designated area near, but not in container type 8B.
  - g. Clean and dry all components in preparation for storage or shipment.

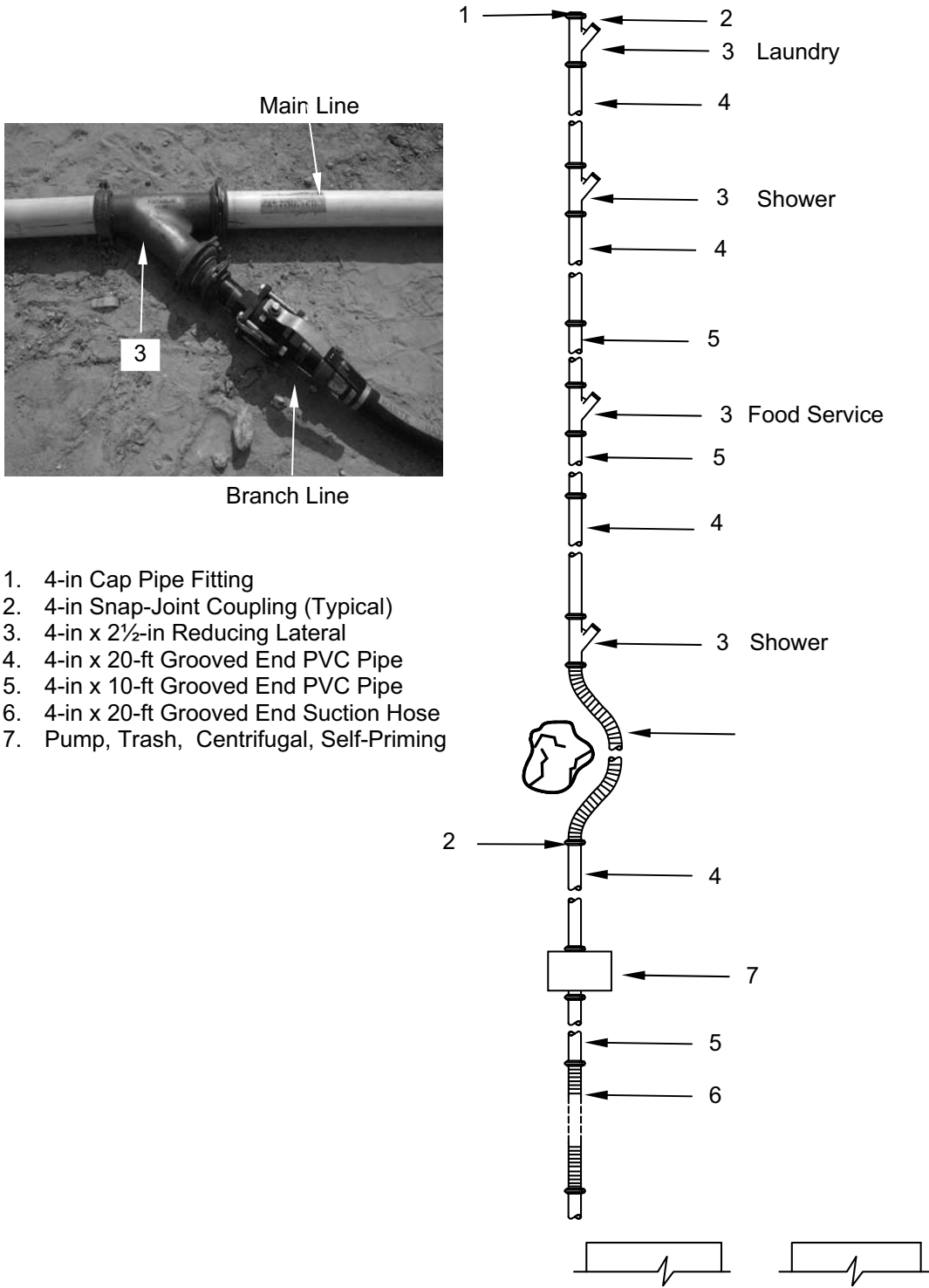




9. Disassemble main line (Waste Water Accessory Collection System) as follows:

- a. Disconnect components 1 through 6 by opening the 4-inch snap joint connectors (5) and separating all components of the main line.
- b. Collect components by type and position in a designated area near, but not in ISO 8A.

- c. Clean and air-dry components in preparation for packing.
- d. Set aside the trash pump (7) as described in paragraph 7.



1. 4-in Cap Pipe Fitting
2. 4-in Snap-Joint Coupling (Typical)
3. 4-in x 2½-in Reducing Lateral
4. 4-in x 20-ft Grooved End PVC Pipe
5. 4-in x 10-ft Grooved End PVC Pipe
6. 4-in x 20-ft Grooved End Suction Hose
7. Pump, Trash, Centrifugal, Self-Priming

**FIELD PACKING WASTE WATER MAINLINE KIT TYPE 8A**

This paragraph provides information to pack equipment into ISO Type 8A. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into designated ISO. The following procedures are for field packing one ISO Type 8A. Blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of ISO Type 8A refer to Table 1, WP 0030 00.

For information and illustrations of other waste water collection equipment refer to WP 0092 00.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

Prepare the contents of ISO 8A as described below.

1. Locate and collect in a central location, 75 each waste water collection mainline plastic pipes 4-inch x 19-feet, and eight pipes of 4-inch x 10-foot length that have been cleaned as described previously. No further preparation is required of these items prior to packing.
2. Locate and collect in a central location 15 each black water hose assemblies, 4-inch x 10-foot that have been cleaned as described previously. Prepare as follows:
  - a. Wrap each hose coupling in two layers of cushioning material and secure in place with tape.
  - b. Wrap each coupling in barrier material and secure in place with tape.
3. Locate the components of the waste water collection accessory kit (refer to Table 4, WP 0030 00) that have been cleaned as previously described. The kit is a split-pack into ISO 8A and TRICON 8B. Prepare the items listed below for packing into ISO 8A. No further preparation is required for the plastic pipe. Prepare the hose assemblies as described below:

**Table 1. Hose Assemblies.**

Item	NSN / Part Number	Qty
Hose Assy, Black Water, QDISC, Cam-Lock, 4-In X 10-Ft, Grooved End	/9-1-0782-52/(81337)	3
Hose Assy, Black Water, QDISC, Cam-Lock, 4-In X 20-Ft, Grooved End	/9-1-0781-54/(81337)	3
Plastic Pipe, 4 In Id X 228 In, Grooved Ends	4710-01-415-7259	27
Plastic Pipe, 4 In Id X 120 In, Grooved Ends	4710-01-415-7254	5

- a. Wrap each hose coupling in two layers of cushioning material and secure in place with tape.
- b. Wrap each coupling in barrier material and secure in place with tape.

**Packing Procedures for ISO type 8A**

The following packing materials and other items are required to pack ISO 8A:

**Table 2. ISO Type 8A Packing Materials.**

Item	Qty
Special Purpose Web, Tiedown, NSN 3990-01-204-3009	7
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	7
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Plywood, 1/4-inch	As required
Plywood, 3/4-inch thick, 4-foot x 8-foot	As required

Use the following procedures to pack ISO type 8A:

1. Locate ISO with "WASTE WATER MAINLINE KIT; CO. TYPE 8A..." stenciled on the left door.
2. Open doors and remove everything from the container. Ensure ISO interior is clean and dry. Inspect the container for any physical damage and that the doors and latches operate properly.
3. Place a layer of 1/4-inch plywood along the floor and walls where the PVC pipe will make contact.
4. Locate seven special purpose web tiedown straps. Attach the non-ratchet end of two straps to the second to last tiedown loop on the back left and back right of the container. Repeat with two straps on the middle loops, left and right, and two straps on the second from the front loops, left and right. Attach one strap, to the second from the front tiedown loops. Temporarily locate straps out of the way to facilitate loading of the container.
5. Locate seventy-five each plastic pipes, 4 in ID x 228-inches, grooved ends, and twenty-seven each plastic pipes, 4 in ID X 228-inches, grooved ends, part of waste water accessory kit.
6. Align and place the plastic pipe lengths in the container, taking care that the front forms an even surface.
7. Locate eight each plastic pipe, 4 in ID x 120-inches, grooved ends, and five each plastic pipe, 4 in ID X 120-inches, grooved ends, part of waste water accessory kit.
8. Align and stack the 120-inch lengths of plastic pipe on top of the 228-inch lengths, taking care that the front forms an even surface.
9. Locate three each hose assemblies, black water, QDISC, Cam-Lock, 4-inch x 20-foot, grooved ends, part of the waste water accessory kit on top of the pipe, taking care to form the 20-foot pieces of hose at the back end of the container, so that the front forms an even surface.
10. Locate fifteen each hose assembly, black water, QDISC, Cam-Lock, 4-inch x 10 foot, grooved ends, and three each hose assembly, black water, QDISC, Cam-Lock, 4-inch x 10-foot, grooved ends, part of the waste water accessory kit on top of the pipe, taking care that the front forms an even surface.
11. Connect the ratchet ends of the three sets of tiedown straps that go over the hose as shown. Fold the ends of the strap and secure with a nylon cable zip tie.
12. Cut a piece of 3/4-inch plywood so that it will fit in front of the plastic pipe and hose. Use the remaining tiedown set in front to hold the plywood, and pipe, back. Make sure that the straps are not caught up on any obstruction and are properly tightened. Fold the ends of the strap and secure with a nylon cable zip tie.

13. Install blocking and bracing as required to secure the contents inside the ISO. Blocking, bracing, fillers and all dunnage shall be installed so as to prevent ISO contents (and the dunnage itself) from falling out when the doors are opened.

14. Close and secure ISO doors

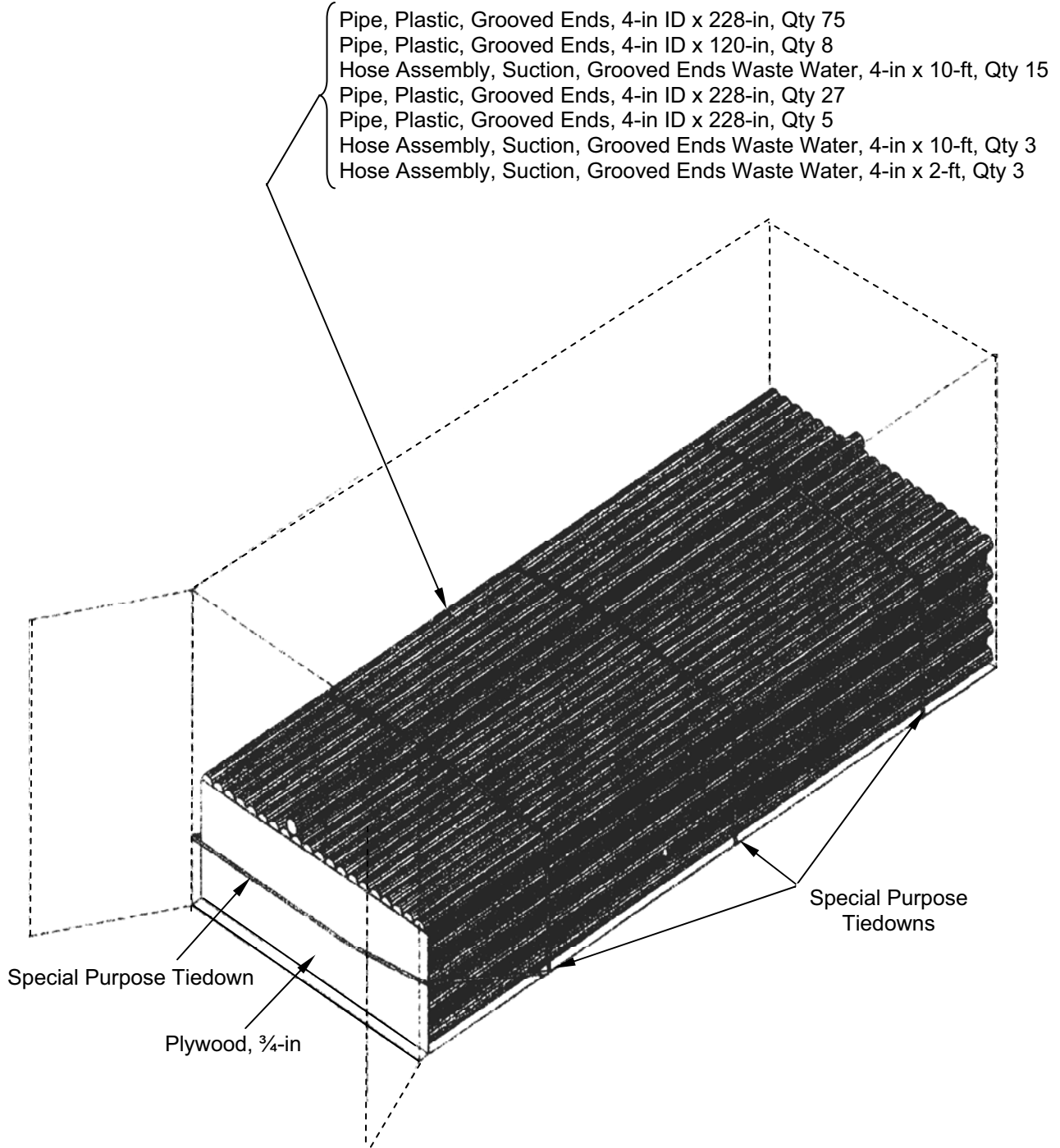


Fig 1. Field Packing Waste Water Mainline Kit Type 8A.

**FIELD PACKING WASTE WATER PUMP AND FACILITY KIT TYPE 8B**

This paragraph provides information to pack equipment into TRICON Type 8B. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into designated ISO. The following procedures are for field packing one TRICON Type 8B. Reusable containers w/lids, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 8B refer to Table 2, WP 0030 00.  
 For information and illustrations of other waste water collection equipment refer to WP 0092 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

Prepare the contents of TRICON 8B as described below.

1. Locate 140, each, 4-inch coupling clamps, two each 4-inch, grooved, 90 degree elbow fittings, and one each 4-inch, grooved pipe cap fitting. These items should have been cleaned as described previously. Prepare as follows:
  - a. Install dust caps and plugs onto elbow fittings as required.
  - b. Wrap each hose coupling in two layers of cushioning material and secure in place with tape.
  - c. Wrap each coupling in barrier material and secure in place with tape.
2. Locate one each waste water connection assembly, 125-GPM pump, consisting of the components listed below and prepare as prescribed. These items should have been cleaned as described previously.

**Table 3. Waste Water Connection Assembly, 125 GPM Facilities.**

Item	NSN / Part Number	Qty
Coupling, Clamp, Grooved End Pipe, 2-1/2 Inch	4370-01-363-8061	4
Valve, Check, Grooved Ends, Waste Water, 2-1/2 Inch	/13230E5760-1/(97403)	1
Coupling, Clamp, Grooved End Pipe, 4 Inch	4370-01-415-7250	2
Strainer, Tee Type, Grooved Ends, 4 Inch	/13230E5763/(97403)	1
Hose Assy, Grooved Ends, 2-1/2 In X 10 Ft, Suction, Waste Water	/13230E5761-1/(97403)	2
Hose Assy, Grooved Ends, 4 In X 10 Ft, Suction, Waste Water	4720-01-415-7252	1
Reducer, 4 In X 2-1/2 In, Grooved Ends	/13230E5762-1/(97403)	1
Technical Manual, Commercial, Victaulic Field Assembly and Installation Instruction Pocket Handbook (I-100 Rev.1/93 100ML)		1

- a. Wrap each hose coupling in two layers of cushioning material and secure in place with tape.
  - b. Wrap each coupling in barrier material and secure in place with tape.
  - c. Install dust caps and plugs on reducers, couplings and valves as appropriate.
  - d. Wrap each reducer, coupling and valve in two layers of cushioning material and secure in place with tape.
  - e. Wrap each reducer, coupling and valve in barrier material and secure in place with tape.
  - f. Place technical manual into a bag made of barrier material and secure with tape.
3. Locate two each 125-GPM waste water pumps including the following subcomponents and prepare as prescribed. These items should have been cleaned as described previously:

**NOTE**

Two trash pumps, centrifugal, self-priming, diesel (PN 2S5YR (25567)), may be shipped instead of the 125-GPM pumps. Pack the trash pumps in the same manner as that described for the 125 GPM pumps.

**Table 4. 125 GPM Waste Water Pumps.**

Item	NSN / Part Number	Qty
Nipple, Pipe, 316SST, 2-in Pipe, 2-inch Long	Astm-A733, 2-in (81346)	1
Nipple, Pipe, 316SST, 2-in Pipe, 5-inch Long	Astm-A733, 5-in (81346)	1
Nipple, Pipe, 316SST, 2-in Pipe, 8-inch Long	Astm-A733, 8-in (81346)	1
Coupling Half, QDISC, Cam-Lock, Male, IPT Type I, 2 In, Al	4370-00-079-1362	1
Coupling Half, QDISC, Cam-Lock, Female, IPT Type V, 2 In, Al	4370-00-649-9103	2
Coupling Half, QDISC, Cam-Lock, Plug, IPT Type X, 2 In, Al	4370-00-915-5127	1
Wrench, Adjustable, 10-1/2 In Long	5120-00-449-8083	1
Technical Manual, 125 GPM Pump, Operation and Maintenance	TM 10-4320-325-14	1
Technical Manual, 125 GPM Pump, Repair Parts List	TM 10-4320-325-24P	1

- a. Install dust caps and plugs on, coupling half as appropriate.
  - b. Wrap each item in two layers of cushioning material and secure in place with tape.
  - c. Wrap each item in barrier material and secure in place with tape.
  - d. Place the technical manuals into a bag made of barrier material and secure with tape.
4. Locate seven each facilities waste water connection assemblies consisting of the following subcomponents and prepare assembly as prescribed. These items should have been cleaned as described previously:

**Table 5. Waste Water Connection Assembly, Facilities.**

Item	NSN / Part Number	Qty
Coupling, Clamp, Grooved End Pipe, 2-1/2-inch	4370-01-363-8061	4
Valve Assy, Ball, Grooved Pipe, 2-1/2-inch	/13230e5752-1/(97403)	1
Coupling, Male NPT X Grooved Pipe, 2-1/2-inch	4370-01-415-7250	1
Reducer, Lateral, Grooved Ends, 4-in X 4-in X 2½-in	/13230e5770/(97403)	1
Hose Assy, Grooved Ends, 2-1/2-in X 10-ft, Suction, Waste Water	/13230e5761-1/(97403)	2
Hose Assy, Grooved Ends, 2-1/2-in X 20-ft, Suction, Waste Water	/13230e5761-2/(97403)	1
Reducing Bushing, 3-in X 2-1/2-in	4730-00-858-3490	1
Technical Manual, Commercial, Victaulic Field Assembly and Installation Instruction Pocket Handbook		1

- a. Install dust caps and plugs on coupling, valves, reducer, and bushing as appropriate.
  - b. Wrap each item in two layers of cushioning material and secure in place with tape.
  - c. Wrap each item in barrier material and secure in place with tape.
  - d. Wrap each hose coupling in two layers of cushioning material and secure in place with tape.
  - e. Wrap each coupling in barrier material and secure in place with tape.
  - f. Place the technical manuals into a bag made of barrier material and secure with tape.
5. Locate the waste water collection system accessory kit parts to be packed into TRICON 8B listed below and prepare as prescribed. These items should have been cleaned as described previously:

**Table 6. Waste Water Collection System Accessory Kit.**

Item	NSN / Part Number	Qty
Coupling, Clamp, Grooved End Pipe, 2-1/2-in	4370-01-363-8061	15
Valve Assembly, Gate, Grooved Pipe, 4-in, Waste Water	/13230e5764/(97403)	2
Valve, Check, Grooved Ends, Waste Water, 4-inch	/13230e5760-2/(97403)	3
Valve Assembly, Ball, Grooved Pipe, 2-1/2-inch	/13230e5752-1/(97403)	1
Gasket, Coupling, Clamp, Pipe, 2-1/2-in	/G024077IT0/(81349)	15
Gasket, Coupling, Clamp, Pipe, 4-in	5330-01-226-8214	50
Pipe Fitting, Cap, 4 In, Al, Grooved, Black	4730-01-415-7977	6
Hose Assy, Grooved Ends, 2 1/2-in X 20-ft, Suction, Waste Water	/13230e5761-2/(97403)	3
Coupling, Clamp, Grooved End Pipe, 4-inch	4370-01-415-7250	50
Tape, Antiseize, Size 2, 1/2-in Wide X 260-in Long	8030-00-889-3535	2
Lubricant, Gasket, Potable Water System, Quart	/13225e9192/(97403)	1
Spout, Fuel Can, Flexible	7240-00-177-6154	1
Boom, Absorbent, 3-in Diameter X 48-in Long	7930-01-362-3916	6
Can, Fuel, Military, Plastic, 5 Gallon, Green, or	7240-01-337-5269-1	1
Can, Fuel, Military, Plastic, 5 Gallon, Tan	7240-01-337-5269-2	1
Technical Manual, Commercial, Victaulic Field Assembly and Installation Instruction Pocket Handbook		1
Hose Assy, Grooved Ends, 2 1/2-in X 10-ft, Suction, Waste Water	/13230e5761-1/ (97403)	3

- a. Wrap each hose coupling in two layers of cushioning material and secure in place with tape.
- b. Wrap each hose coupling in barrier material and secure in place with tape.
- c. Install dust caps and plugs on couplings, and valves as appropriate.
- d. Wrap each coupling, valve, spout, pipe fittings, in two layers of cushioning material and secure in place with tape. Unused gaskets, tape and gasket lubricant should be retained in the original packaging.
- e. Wrap each coupling, valve, spout, and pipe fitting in barrier material. Secure in place with tape.
- f. Place technical manual into a bag made of barrier material and secure with tape.
- g. Retain unused absorbent material (booms) in original packaging. Dispose of contaminated or used spill cleanup materials in accordance with local procedures.
- h. Loosen the top of each fuel can to vent and allow air flow during transport.

**Packing Procedures for TRICON Type 8B**

The following packing materials and other items are required to pack TRICON 8B:

**Table 7. TRICON 8B Packing Materials.**

Item	Qty
Pad, energy dissipating, 3-in thick (honeycomb), NSN 1670-00-753-3928	As required
Steel Strapping, 1/2-Inch, (ASTM D-3953)	As required
Special Purpose Web, Tiedown, NSN 3990-01-204-3009	5
Lumber, 2-inch x 6-inch x 75 3/4-inches long	1
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Corrugated Fiberboard Sheet 4-foot x 8-foot, ASTM-D4727	As required



**Table 7. TRICON 8B Packing Materials - Continued.**

Item	Qty
Plywood, 1/2-inch thick, 4-foot x 8-foot	As required
Plywood, 3/4-inch thick, 4-foot x 8-foot	As required

Use the following procedures to pack TRICON type 8B:

1. Locate TRICON with "WASTE WATER PUMP AND FACILITY KIT; CO. TYPE 8B..." stenciled on the left door.
2. Open doors and remove everything from the TRICON. This should include the following reusable containers and crates:

**Table 8. Reusable Containers and Crates.**

Item	NSN/PN(CAGE)	Qty
Container, Reusable, Bulk Equipment	8145-01-415-7267	1
Container, Reusable, Bulk Handling, Half Size, GP	8145-01-415-4821	2
Reusable Container Plywood Cover	/9-1-0758/(81337)	3
125-GPM Pump Wood Crate	N/A	2

3. Ensure interior is clean and dry. Inspect the container for any physical damage and that the doors and latches operate properly.
4. Locate reusable container marked "8B BIN #1". Work each barrel bolt mechanism (2 per container) on the door so that it is easily opened and closed. Line each of the sides and floor of the container with a minimum of two layers of fiberboard. Cut the fiberboard so that it will bend with the door on the container when the door is opened.
5. Locate 140 each coupling clamps, grooved end pipe, 4-inch, previously packed. Neatly stack these couplings in a layer inside the reusable container. Place one layer of cushioning material over the couplings.
6. Locate the waste water connection assembly, 125-GPM Pump and the two FP technical manuals previously packed. Place all items in the reusable container on top of the coupling clamps. Fill all voids in the container to secure the items and to create a tight pack. Place one layer of cushioning material over the items inside the reusable container.
7. Locate, or fabricate a plywood cover using 1/2-inch plywood, reinforced with 1-inch x 6-inch lumber braces, per drawing 9-1-0758 (81337). The cover shall be sized so that it fits into the four corner brackets of the reusable container. Place the cover on the container with cleats facing up. Secure with 1/4-inch steel strapping.
8. Locate reusable container marked "8B BIN #2". Work each barrel bolt mechanism (2 per container) on the door so that it is easily opened and closed. Line each of the sides and floor of the container with a minimum of two layers of fiberboard. Cut the fiberboard so that it will bend with the door on the container when the door is opened.
9. Locate seven each facilities waste water connection assemblies packed previously. Place the items inside the half size reusable container. Fill all voids in the container to secure the items and to create a tight pack. Place one layer of cushioning material over the items inside the container.
10. Locate, or fabricate a plywood cover using 1/2-inch plywood, reinforced with 1-inch x 6-inch lumber braces, per drawing 9-1-0758 (81337). The cover shall be sized so that it fits into the four corner brackets of the reusable container. Place the cover on the container with cleats facing up. Secure with 1/4-inch steel strapping.

11. Locate reusable container marked "8B BIN #3". Work each barrel bolt mechanism (2 per container) on the door so that it is easily opened and closed. Line each of the sides and floor of the container with a minimum of two layers of fiberboard. Cut the fiberboard so that it will bend with the door on the container when the door is opened.
12. Locate two each 90° elbow pipe fittings, 4-inch, Al, grooved, black, one each pipe fitting, cap, 4-inch, Al, grooved black, and one each waste water collection system accessory kit, previously packed.
13. Place these items inside the half size reusable container. Fill all voids in the container to secure the items and to create a tight pack. Place one layer of cushioning material over the items inside the container.
14. Locate, or fabricate a plywood cover using ½-inch plywood, reinforced with 1-inch x 6-inch lumber braces, per drawing 9-1-0758 (81337). The cover shall be sized so that it fits into the four corner brackets of the reusable container. Place the cover on the container with cleats facing up. Secure with ¼-inch steel strapping.
15. Prepare two sheets of ¾-inch thick plywood so that they will lay flat on the floor of the TRICON, tight to all sides, and so that the doors will close tight against the front edges.
16. Locate two special purpose web tiedown. Secure the non-ratchet end, of each strap to each upper corner tiedown bar in the rear of the container. Place ends of the straps out of the way to facilitate loading of the container.
17. Using a forklift, stack the two reusable containers marked BIN #2 and BIN #3 on top of each other, and place them in the rear of the container as shown. Cross the tiedown strap over the containers and secure to a tiedown loop on the floor of the TRICON near the base of the containers. Fold loose ends of the straps and secure with nylon cable zip ties.
18. Locate three special purpose web tiedown. Secure the non-ratchet end of two straps to the two floor tiedown loops next to BIN #2 and BIN #3. Attach the non-ratcheted end of one tiedown strap to the center vertical shelf support, approximately half way between the floor and ceiling. Place ends of the straps out of the way to facilitate loading of the container.
19. Locate two 125-GPM waste water pump assemblies. Locate two wooden crates to hold each of the pumps, marked "Reusable Crate" or fabricate two plywood crates to hold each pump. Place the pumps inside a crate, using filler/bracing as required to prevent movement. Position one of the crated 125-GPM pumps in front of the reusable container against the right container wall. Place the second crated pump one on top of the first.
20. Using a forklift, place the reusable container marked "8B BIN #1 next to the two pump crates. Cross two tiedown straps to secure the two pump crates and the one reusable container in place. Fold loose ends of the straps and secure with nylon cable zip ties. Use filler as necessary to properly block and brace the items Inside the TRICON.
21. Secure one tiedown strap around the upper 125-GPM pump to secure the crate in place, as shown. Fold loose ends of the straps and secure with nylon cable zip ties.
22. Install one, 2-inch x 6-inch x 75 ¾-inch board across the front of the container as shown.
23. Install blocking and bracing as required to secure the contents inside the TRICON. Blocking, bracing, fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
24. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.
25. Close and secure TRICON doors.

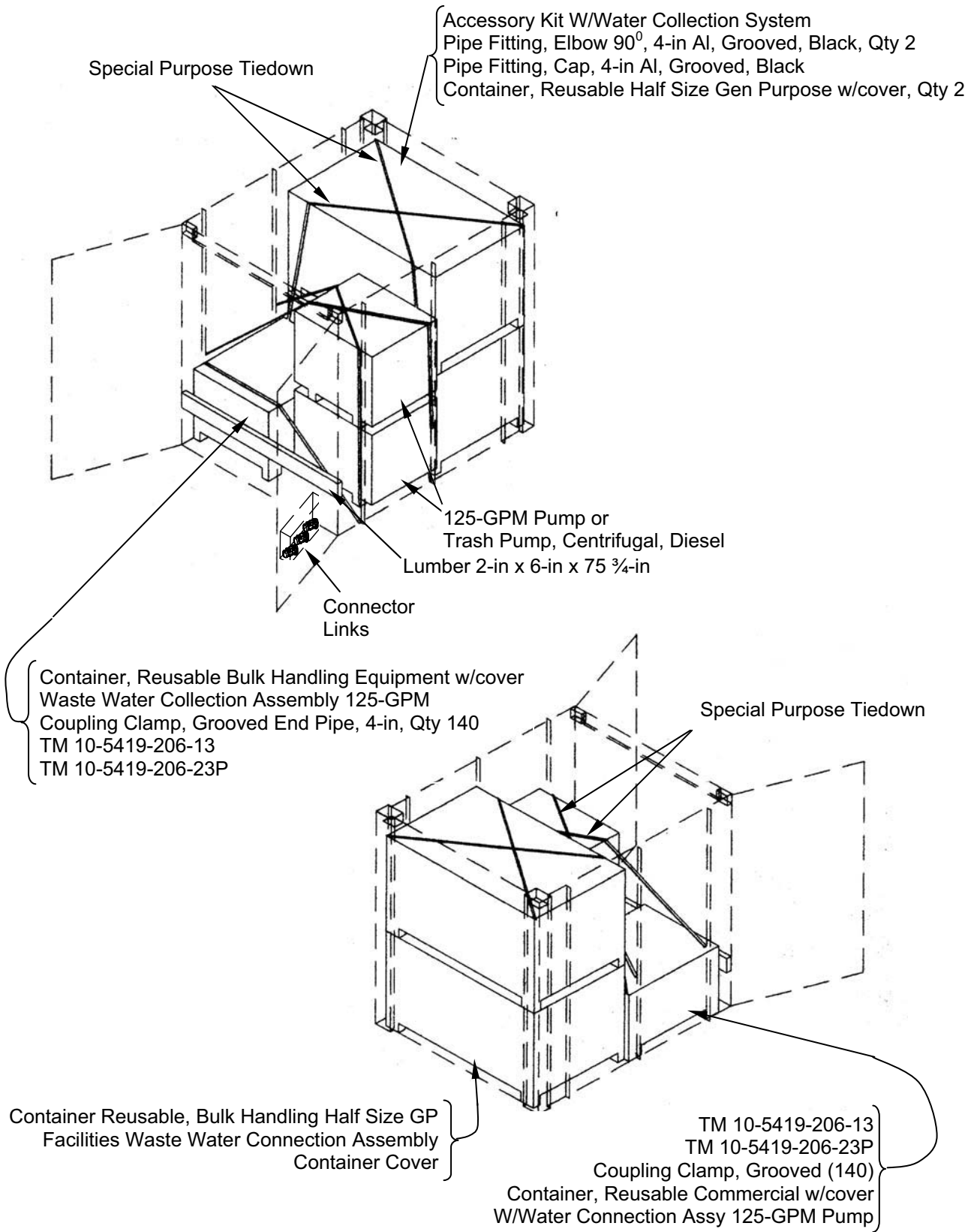


Fig 2. Field Packing Waste Water Pump and Facility Kit Type 8B.

**FIELD PACKING WASTE WATER TANK KIT TYPE 8C**

This paragraph provides information to pack equipment into TRICON Type 8C. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into designated ISO. The following procedures are for field packing one TRICON Type 8C. Reusable containers w/lids, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 8C refer to Table 3, WP 0030 00.  
 For information and illustrations of the 20,000-Gallon Tank refer to TM 5-5430-219-13.  
 For information and illustrations of other waste water collection equipment refer to WP 0092 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

Prepare the contents of TRICON 8C as described below.

1. Locate three 20,000-Gallon collapsible fabric waste water tank assemblies, each including the components listed below that have been cleaned as described previously and prepare as specified:

**Table 9. TRICON 8C Packing Materials.**

Item	NSN / PN/(CAGE)	Qty
Ground Cloth, 20,000 Gallon Fabric Tank	/8001229000/(66618)	1
Hose Assy, Potable Water, QDISC, Cam-Lock, 1-1/2 In X 20 Ft, M X F	4720-01-438-7649	1
Vent Tube Assembly, 2 In	/8600000228/(66618)	1
Input Elbow, 90 Degree, QDISC, Cam-Lock, 4 In F X 4 In F	/01001019/(66618)	1
Output Elbow, 90 Degree, QDISC, Cam-Lock, 4 In F X 4 In M	/01001020/(66618)	1
Output Elbow, 90 Degree, QDISC, Cam-Lock, 1-1/2 In F X 1-1/2 In M	/8600000382/(66618)	1
Valve Assembly, Gate, QDISC, Cam-Lock 1-1/2 Inch, F X M	/9-1-0500/(81337)	1
Output Assembly, 1-1/2 In	/9-1-0504/(81337)	1
Input/Output Fitting, 4 In	/9-1-0515/(81337)	2
Emergency Repair Kit, Fabric Tank	/8600000265/(66618)	1
Technical Manual, Commercial, 20,000 Gallon Fabric Tank	/02001014/(66618)	1

- a. Wrap each hose assembly coupling in two layers of cushioning material and secure in place with tape.
- b. Wrap each coupling in barrier material and secure in place with tape.
- c. Install dust caps and plugs as applicable on elbows, fittings, vent tube assembly and ball valves.
- d. Place a minimum of two wraps of cushioning material around each item and secure with tape.
- e. Place each wrapped item into a bag made of barrier material. Secure with tape.
- f. Locate emergency repair kit. Place unused repair kit components into a bag made of barrier material and seal with tape. If provided, place repair kit into storage pouch.
- g. Locate the commercial technical manual and place into plastic bag, or one made of barrier material and sealed with tape.
- h. Place the elbows, valves, fittings, repair kit and technical manual into a close-fitting fiberboard container. Close the container with tape.
- i. Locate 20,000-Gallon fabric tank and ground cloth. Unroll the tank on a clean flat surface. Ensure that the tank is clean and dry.
- j. Wrap each tank fittings with two wraps of cushioning material and secure with tape.

- k. Wrap each tank fitting with barrier material and secure with tape.
  - l. Place a piece of cardboard over each fitting to protect the material when rolled up.
  - m. Apply talc to all external surfaces of the tank, then fold to a size not bigger than 33-inches in diameter and 60-inches long.
  - n. Unroll the ground cloth and repeat the process.
2. Locate one each 20,000-Gallon waste water tank connection kit consisting of the following components that have been cleaned as described previously and prepare as specified:

**Table 10. Waste Water Tank Connection Kit.**

Item	NSN / PN/(CAGE)	Qty
Hose Assembly, Grooved Ends, 4-in X 20-ft, Suction, Waste Water	/13230E5761-4/(97403)	4
Tee, Grooved Ends, 4-in M10388-A29DT 2 Coupling Clamp, Grooved End Pipe, 4-in	4370-01-415-7250	13
Valve, Check, Grooved Ends, Waste Water, 4-in	13230E5760-2/(97403)	1
Valve Assembly, Gate, Grooved Pipe, 4-in, Waste Water	13230E5764/(97403)	4
Adapter Assy, Female Cam-Lock X Grooved Pipe, 4-in, Waste Water	13230E5766/(97403)	2
Pipe Fitting, El, 90 Deg, 4-in, Al, Grooved, Black	4730-01-415-6423	2
Coupling Half, QDISC, Cam-Lock, Nipple Adapter, M X External Grooved Pipe	4370-01-237-0201	2

- a. Wrap each hose assembly coupling in two layers of cushioning material and secure in place with tape.
- b. Wrap each coupling in barrier material and secure in place with tape.
- c. Install dust caps and plugs as applicable on valves, fittings, and couplings.
- d. Place a minimum of two wraps of cushioning material around each item and secure with tape.
- e. Place each wrapped item into a bag made of barrier material. Secure with tape.

**Packing Procedures for TRICON Type 8C**

The following packing materials and other items are required to pack TRICON 8C:

**Table 11. TRICON 8C Packing Materials.**

Item	Qty
Pad, energy dissipating, 3-in thick (honeycomb), NSN 1670-00-753-3928	As required
Special Purpose Web, Tiedown, NSN 3990-01-204-3009	2
Lumber, 2-inch x 6-inch x 75 ¾-inches long	1
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Corrugated Fiberboard Sheet 4-foot x 8-foot, ASTM-D4727	As required
Plywood, ½-inch thick, 4-foot x 8-foot	As required
Plywood, ¾-inch thick, 4-foot x 8-foot	As required

Use the following procedures to pack TRICON type 8C:

1. Locate TRICON with "WASTE WATER TANK KIT; CO. TYPE 8C..." stenciled on the left door.
2. Open doors and remove everything from the TRICON, including the following reusable containers:

**Table 12. Reusable Containers.**

Item	NSN/PN(CAGE)	Qty
Container, Reusable, Medium	8145-01-415-4116	2
Reusable Container Plywood Cover	/9-1-0758/(81337)	2

3. Ensure TRICON interior is clean and dry. Inspect the container for any physical damage and that the doors and latches operate properly.
4. Locate one reusable container. Work each barrel bolt mechanism (2 per container) on the door so that it is easily opened and closed. Line each of the sides and floor of the container with a minimum of two layers of fiberboard. Cut the fiberboard so that it will bend with the door on the container when the door is opened.
5. Using a forklift, and sling, (if provided) place two of the 20,000-Gallon tanks with accessories inside the reusable container. Fill all voids in the container to secure the items and to create a tight pack. Place one layer of cushioning material over the items inside the container.
6. Retrieve, or fabricate a plywood cover using ½ inch plywood sections, reinforced using 1-inch x 6-inch lumber braces, as specified in drawing 9-1-0758 (81337). The cover is (shall be) sized so that it fits into the four corner brackets of the container. Place the cover on the container with cleats facing up.
7. Locate the second reusable container and, using a forklift, and sling (if provided), place the third 20,000-Gallon tank with accessories inside the container.
8. Pack the 20,000-Gallon tank connection assembly components inside the container. Fill all voids in the container to secure the items and to create a tight pack. Place one layer of cushioning material over the items when packed.
9. Retrieve, or fabricate a plywood cover using ½ inch plywood sections, reinforced using 1-inch x 6-inch lumber braces, as specified in drawing 9-1-0758 (81337). The cover is (shall be) sized so that it fits into the four corner brackets of the container. Place the cover on the container with cleats facing up.
10. Prepare two sheets of ¾-inch thick plywood so that they will lay flat on the floor of the TRICON, tight to all sides, and so that the doors will close tight against the front edges.
11. Secure the non-ratcheted end of a tiedown strap to each upper corner tiedown bar in the rear of the container. Drape the ratchet end of the strap over the top of the container.
12. Using a forklift, stack the two packed reusable containers on top of each other and place them inside the TRICON.
13. Cross the tiedown straps over the reusable containers and secure to a tiedown loop on front of the TRICON. Ensure the straps are not tangled before tightening. Fold any remaining unused strap and secure with zip ties.
14. Install blocking and bracing as required to secure the contents inside the TRICON. Blocking, bracing, fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.

15. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.
16. Close and secure TRICON doors.

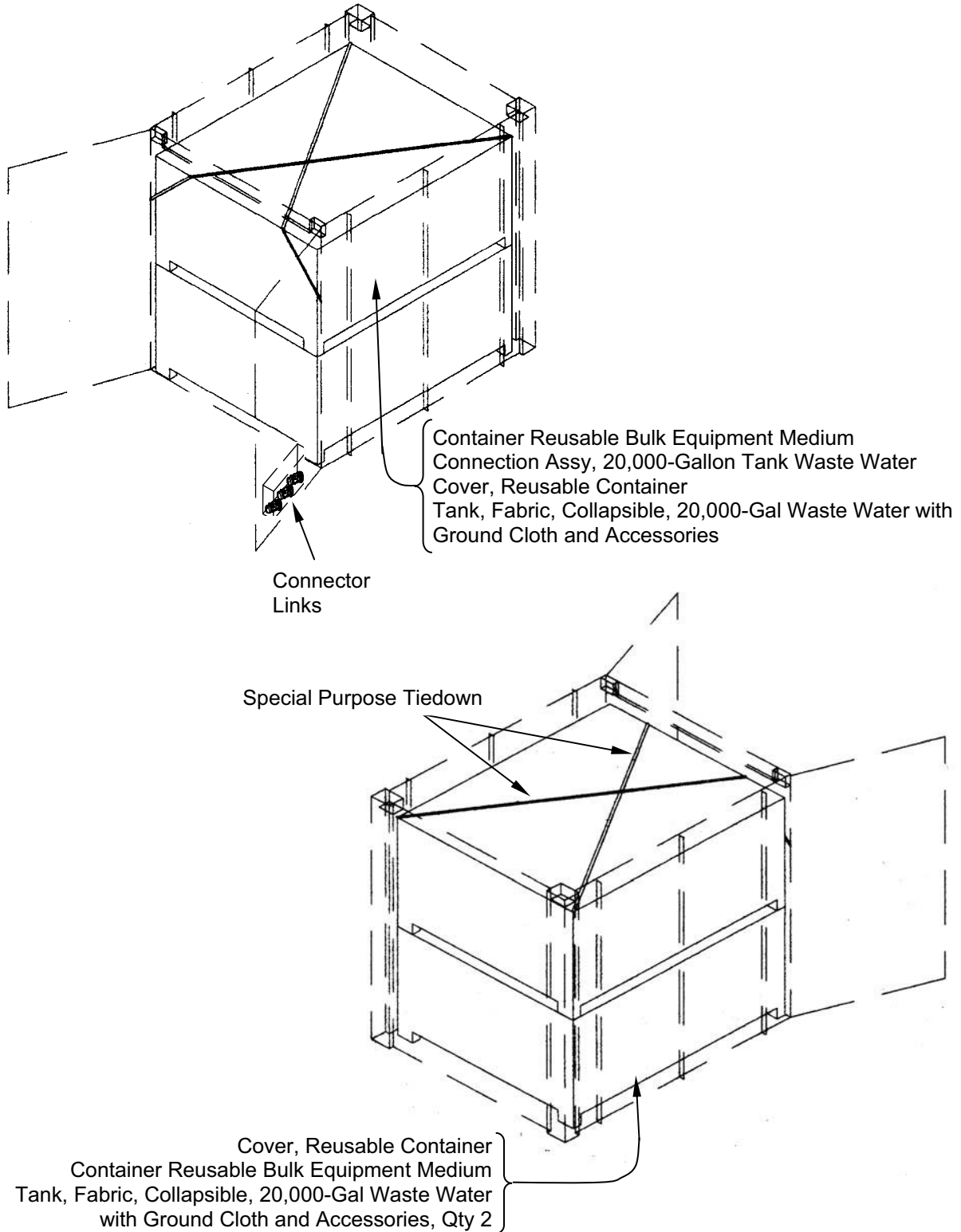


Fig 3. Field Packing Waste Water Tank Kit Type 8C.

**FIELD PACKING WASTE WATER ACCESSORIES KIT TYPE 8D**

This paragraph provides information to pack equipment into TRICON Type 8D. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into designated ISO. The following procedures are for field packing one TRICON Type 8D. Reusable containers w/lids, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 8D refer to Table 4, WP 0030 00.

For information and illustrations of the SEP refer to TM 10-4630-206-12&P.

For information and illustrations of other waste water collection equipment refer to WP 0092 00.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

Prepare the contents of TRICON 8D as described below.

1. Locate the SEP previously cleaned and disassembled. Prepare as follows:
  - a. Remove the tank cover. Spray P14 preservative into the pump through the output port.
  - b. Locate the heating element and float switch in the tank. Place a minimum of two wraps of cushioning material around each item and secure with tape.
  - c. Wrap the items in barrier material and secure with tape.
  - d. Secure the heating element and float switch against movement inside the sewage ejection pump tank with twine, or nylon cable zip ties.
  - e. Install dust caps and plugs onto couplings and fittings, as applicable.
  - f. Place a minimum of two wraps cushioning material around each item and secure with tape.
  - g. Wrap the items in barrier material and secure with tape.
  - h. Place the couplings and fittings into a fiberboard container and secure with tape.
  - i. Locate the SEP technical manual, TM 10-4630-206-12&P and place it into a bag made with barrier material. Secure with tape.
  - j. Place box containing the couplings and fittings as well as the technical manual inside sewage ejection pump tank. Secure in place.
  - k. Fill empty spaces between pump and tank walls with honeycomb to prevent movement during transportation.
  - l. Wrap the power cord connectors on each end of the power cable in two layer of cushioning material and secure in place with tape.
  - m. Wrap each connector end in barrier material and secure in place with tape. Coil each assembly and secure with twine, or cable ties.
  - n. Open SEP control box. Check for the presence of moisture and wipe up any moisture noted. Close control box when dry.
  - o. Place cover onto tank and secure.
2. Locate any unused bundles of acrylic sandbags. Retain these items in their original packaging.



## Packing Procedures for TRICON Type 8D

The following packing materials and other items are required to pack TRICON 8D:

**Table 13. TRICON 8D Packing Materials.**

Item	Qty
Special Purpose Web, Tiedown, NSN 3990-01-204-3009	2
Lumber, 2-inch x 6-inch x 75 ¾-inches long	1
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Corrugated Fiberboard Sheet 4-foot x 8-foot, ASTM-D4727	As required
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4

Use the following procedures to pack TRICON type 8D:

1. Locate TRICON with "WASTE WATER ACCESSORIES KIT; CO. TYPE 8C..." stenciled on the left door.
2. Open doors and remove everything from the TRICON. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate any unused bundles of acrylic sandbags. Place sand bags evenly distributed across the floor of the TRICON.
5. Locate four shoring beams and install them onto the vertical uprights so that the shelf will hold the sandbags in place. This may be at a lower position than the paint mark indicators on the vertical uprights, if less than 22 bundles of sandbags are being return-shipped.
6. Install the two shelves onto the shoring beams.
7. Locate two special purpose, web, tiedown straps. Attach the non-ratchet end of each strap to the rear corner tiedown loops, just above the shelf. Place ends of straps out of the way to facilitate loading of the TRICON.
8. Using a forklift, please the previously prepared SEP into the TRICON, centered of the shelf.
9. Secure the SEP with the special purpose tiedown straps. Cross the straps over the SEP, connecting the ratchet ends to the opposite side of the TRICON. Fold the loose ends of the tiedown straps and secure with nylon cable zip ties.
10. Install blocking and bracing as required to secure the contents inside the TRICON. Place a 2-inch x 6-inch x 75¾-inch lumber brace in front of the sandbags as shown. Blocking, bracing, fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
11. Ensure that three TRICON connectors are located in the holder on the lower inside of the right hand container door.

12. Close and secure TRICON doors.

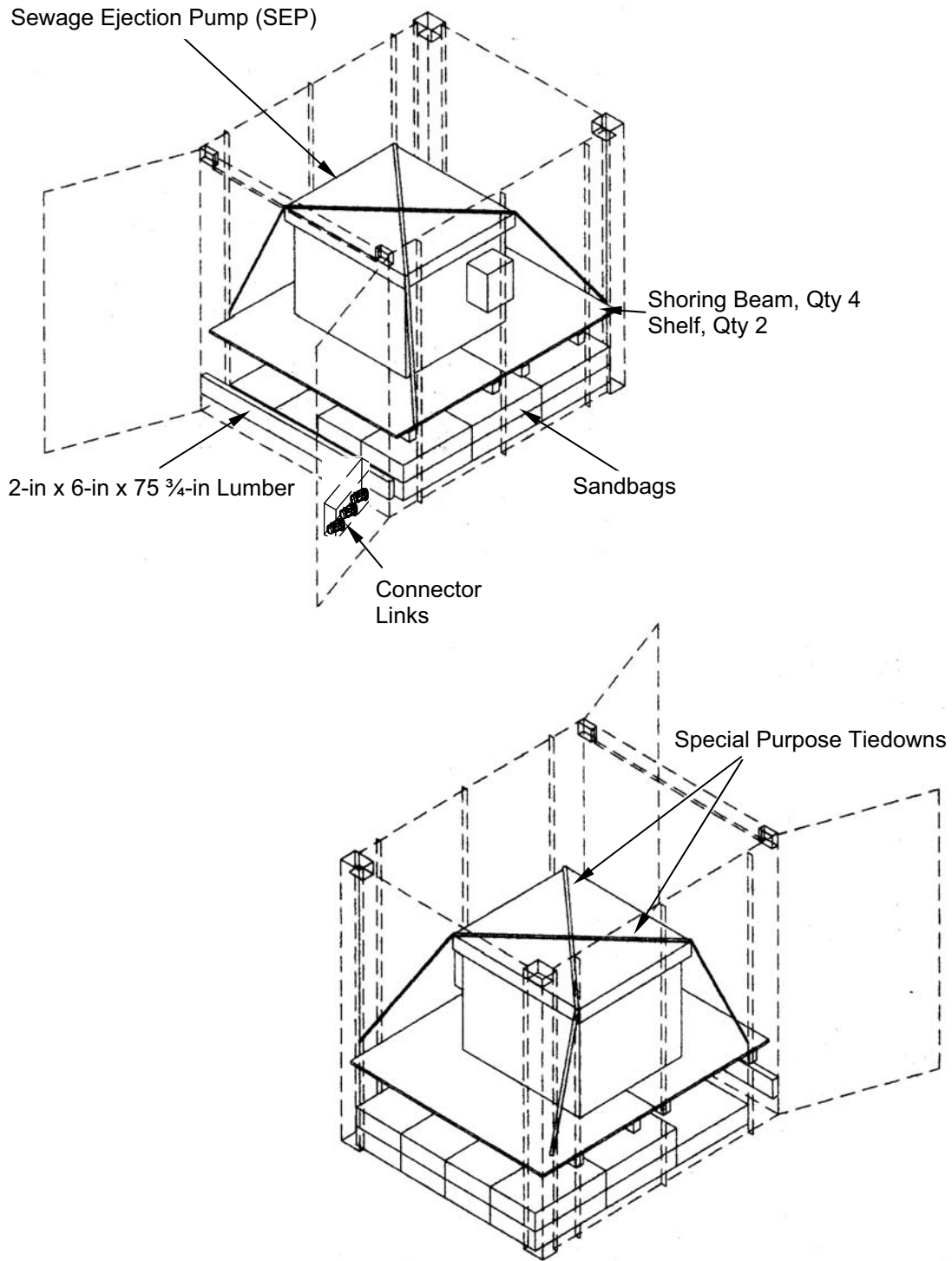


Fig 4. Field Packing Waste Water Accessories Kit Type 8D.

END OF WORK PACKAGE

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**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - FOOD SERVICE SUBSYSTEM**

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**GENERAL**

Following are instructions for the preparation for movement and field packing of food service subsystem equipment shipped in ISO 10A, TRICON 10C through 10G, and 10I through 10L. Equipment shipped in TRICON 10B, 10H, 10M, 10N, and 10P must be prepared for movement and field packed as described in TM 10-7360-282-10. Use applicable portions of this WP as determined by the equipment to be prepared and packed.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Obtain replacement of damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL Bulk Items List (TM 10-5419-206-23P, WP 0002 00).

**PREPARATION FOR MOVEMENT OF 600-CUBIC FOOT REFRIGERATORS**

Prepare refrigerators for storage or shipment as described in TM 9-4110-241-13 and TM 5-4110-242-14. This equipment will be packed into ISO Container 10A, with the exception of three wall panels and one evaporator panel to be packed into TRICON 10I, and four wall panels to be packed into TRICON 10J. Position components accordingly.

**PREPARATION FOR MOVEMENT OF FOOD SERVICE EQUIPMENT**

Remove equipment from TEMPER and position outside, near appropriate TRICONS (refer to Tables 1 through 10 of WP 0031 00), but do not begin packing equipment or containers at this point. Clean equipment internally and externally as applicable. Let equipment dry thoroughly. Prepare equipment for movement as follows:

**NOTE**

Do not prepare used or soiled cleaning equipment such as brooms and mop heads for packing. Dispose of these items locally, along with broken items such as mop handles, axes, shovels, sledge hammers, wooden tent pins, wood mallets, garden rakes and used surveyor's ribbon.

1. Prepare kitchen equipment for storage or shipment as described in TM 10-7360-282-10.
2. Remove floormats from TEMPER. Clean, then tightly roll 32-foot floormats individually, and secure in two places with tape. Set aside.
3. Fold and remove folding tables and chairs from TEMPER. Clean and set aside.
4. Locate trash barrels (with lids), benches, and any other equipment from in and around TEMPER. Discard used mop heads, brooms, and unserviceable mop handles, shovels and mallets.
5. Locate sledge hammer and wooden mallets (these items may be in TRICON) shovels, brooms, and mop handles. Locally dispose of broken items.
6. Locate first aid kits and set aside.

**PREPARATION FOR PACKING OF WATER DISTRIBUTION KIT, MODULAR FIELD KITCHEN**

Refer to Table 3, WP 0031 00 for a complete water distribution kit component listing. To prepare this equipment proceed as follows:

1. After the food service subsystem main water supply has been shut off, disassemble the water distribution components. Note any damage to components, separating those that are unserviceable for local disposal.
2. Clean components with scrub brush and rinse. Drain hoses and other components as necessary and allow to air dry.
3. Pre-position components on a clean surface near TRICON 10D for inventory and packing.

**PREPARATION FOR PACKING OF FOOD SERVICE WASTE WATER KIT****NOTE**

Some of the waste water components originally shipped in TRICON 10J, such as the grease traps should not be return shipped. This may also include some of the waste water couplings and hoses, depending on their condition at the time. Dispose of these items locally.

Refer to Table 8, WP 0031 00 for a complete wastewater distribution kit component listing for a TRICON Type 10J. To prepare this equipment proceed as follows:

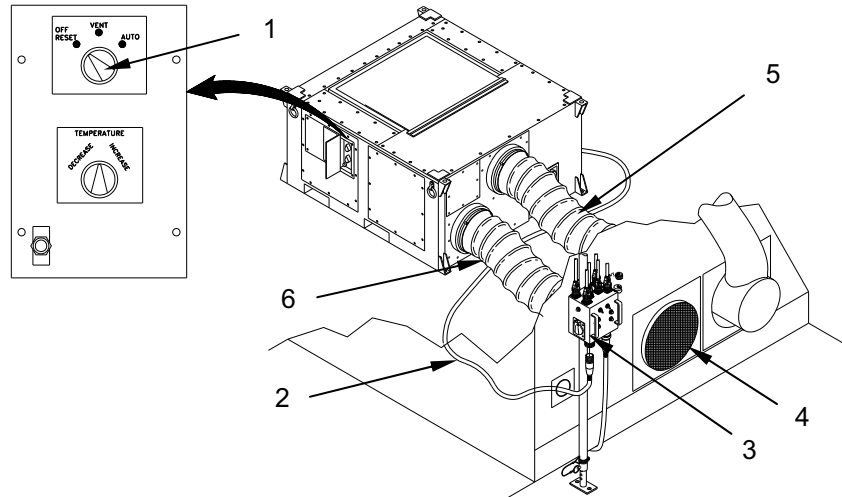
4. After the food service subsystem main water supply has been shut off, allow the SEP to evacuate any remaining wastewater.
5. Shut down and prepare the SEP for shipment in accordance with TM 10-4630-206-12&P.
6. Disassemble the remaining wastewater collection components. Note any damage to components, separating those that are unserviceable for local disposal.
7. Steam clean components to be retained and rinse thoroughly. Drain hoses and other components as necessary and allow to air dry.
8. Pre-position cleaned components on a clean surface near TRICON 10J for inventory and packing.

**PREPARATION FOR MOVEMENT OF FOOD SERVICE ECU****NOTE**

The following instructions for the preparation for movement of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-4096) is at hand, assemble, shut down and prepare it for movement and packing in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-459) are at hand, use TM 9-4120-411-14. Otherwise, follow the instructions furnished herein.

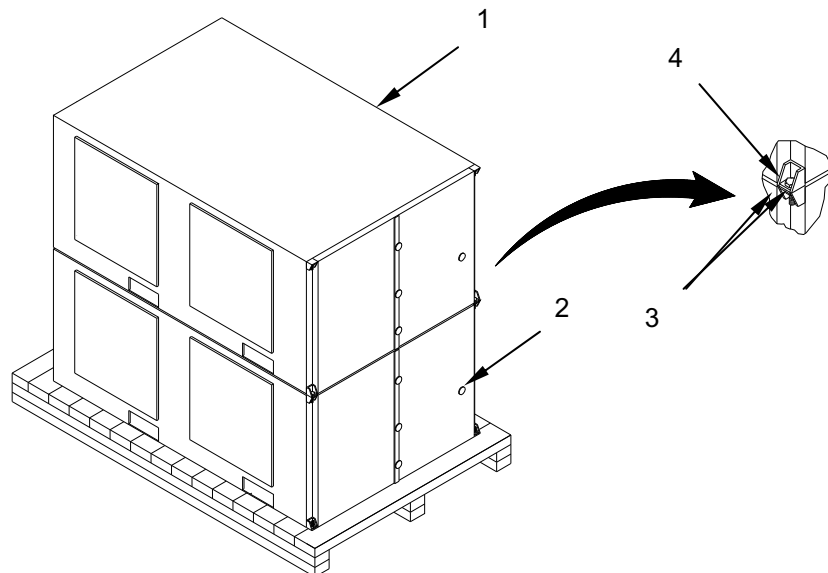
1. Set ECU mode selector switch (1) to OFF- RESET position.
2. Disconnect ECU power cable (2) from POWER OUT receptacle on TEMPER power distribution box (3). Install dust caps on cable and receptacle. Coil cable (2) and store inside condenser compartment storage box.

3. Remove debris screen (4) from return duct.
4. Disconnect ECU supply duct (5) and return duct (6) from TEMPER and ECU. Store ducts in condenser compartment storage box.



Prepare the ECU for movement as follows:

1. Locate two ECU (1) and (2), one with attached pallet and one without. Ensure latches and doors are secured.
2. Remove four mounting bolts, nuts and washers (3) from four unit-to-unit corner mounts (4) of pallet-attached ECU (2).
3. With forklift, position ECU (1) without pallet on top of pallet-attached ECU (2), ensuring both ECU (1) and (2) face the same direction and unit-to-unit mounting holes (4) are aligned. Secure units together with four  $\frac{5}{8}$ -inch x 2-inch bolts, four  $\frac{5}{8}$ -inch nuts and four flat washers (3).



4. Pack ECU pallet into TRICON Type 10E as described under FIELD PACKING FOOD SERVICE ECU KIT TYPE 10E in this WP.

### PREPARATION FOR PACKING OF FOOD SERVICE POWER SUPPLY EQUIPMENT

The following procedures outline the steps to prepare the power supply equipment for movement.

1. Switch all TEMPER electrical equipment to OFF and set TEMPER power control switch to OFF.
2. Set all PDISE-M100 circuit breakers, including MAIN, to OFF.



### WARNING

Power supply shall be shut off and disconnected only by qualified personnel. Power source must be shut off and disconnected before attempting to disassemble power supply equipment. Failure to observe this warning may result in severe injury or death by electrocution.

3. Have qualified personnel shut off power to PDISE. Power source must be shut off and disconnected before attempting to disassemble power supply equipment.
4. Have qualified personnel disconnect 4-foot/100-A pigtail from power source.

To disassemble the power supply equipment, proceed as follows:

1. Disconnect 100-A/50-foot service cables from pigtails. Install dust caps.
2. Disconnect each pair of 100-A/50-foot service cables. Install dust caps.
3. Disconnect 100-A/50-foot service cable from J1 connector on each PDISE-M100. Install dust caps.
4. Disconnect 60-A/100-foot power cables from J3 and J6 connectors on each PDISE-M100. Install dust caps.
5. Disconnect each pair of 60-A/100-foot power cables. Install dust caps.
6. Disconnect 60-A/100-foot power cables from POWER IN receptacle (J1) on TEMPER power control box. Install dust caps.
7. Disconnect 60-A/100-foot power cables from serviced kitchen equipment and power distribution boxes kitchen.

Power supply equipment must be cleaned of dirt, debris and corrosion. Dry the equipment thoroughly, before packing. Prepare power supply equipment for packing as follows:

1. Service and Power Cables. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and then allow to completely air dry.
2. PDISE-M100. Clean the external surfaces with a clean, damp rag. Clean the face of PDISE-M100 circuit breaker panel with a dry rag.
3. Kitchen Power Distribution Box. Clean the external surfaces with a clean, damp rag. Install dust caps.

Prepare the following components for packing into TRICON Type 10F, 10K, and 10L together with other items as listed. Position power supply equipment near TRICON to be packed, but do not begin packing yet. Procedure for field packing the containers follow later in this WP.

1. Locate three PDISE-M100, together with four 100-A/50-foot service cables, two 100-A/4-foot pigtails, and sixteen cable carrying straps and position near TRICON 10F. Ensure that all connector covers are installed and secured, and that the top cover of the PDISE M-100 is closed and secured.
2. Locate one PDISE-M100, together with two 100-A/50-foot service cables, one 100-A/4-foot pigtail, and four cable carrying straps and position near TRICON 10K. Ensure that all connector covers are installed and secured, and that the top cover of the PDISE M-100 is closed and secured.
3. Locate one PDISE-M100, together with two 100-A/50-foot service cables, one 100-A/4-foot pigtail, and four cable carrying straps and position near TRICON 10L. Ensure that all connector covers are installed and secured, and that the top cover of the PDISE M-100 is closed and secured.
4. Locate twenty four 60-A/100-foot power cables and forty-eight carrying straps. Coil each cable into a uniform coil having a diameter no greater than 30 inches. Secure each coil using two cable carrying straps. Place 6 cables near TRICON 10F and TRICON 10K, 8 cables near TRICON 10G, and 4 cables near TRICON 10L.

### PREPARATION FOR PACKING OF FOOD SERVICE TEMPER

Prior to striking the TEMPER, ensure all equipment has been removed.

#### NOTE

Do NOT pool or mix TEMPER components. Keep all components in the area where TEMPER was erected.

Strike TEMPER in accordance with TM 10-8340-224-13.

TEMPER Components must be cleaned of dirt, debris and corrosion, then dried thoroughly, before packing. Prepare TEMPER Equipment for packing as follows:

1. Exterior Fabric Components and Vinyl Liners. Sweep loose dirt from both sides of each fabric section and clean with a scrub brush and warm soapy water. Rinse with clean water and allow fabric to completely air dry.
2. Cloth Liners. Do not launder liners. Sweep loose dirt from both sides of each liner. Allow liners to completely air dry.
3. Frame Components. Clean with steam cleaner or pressurized washer, and scrub brush. Allow frame sections to completely air dry.
4. Electrical Cable Assemblies. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and allow cables to completely air dry.
5. TEMPER Power Control. Clean the external surfaces with a clean, damp rag. Ensure all dust caps are installed and secure.

## PREPARATION FOR MOVEMENT OF M80 WATER HEATER

Shut down the M80 Water Heater as described in TM 10-4520-259-13&P.



### WARNING

Let the water heater cool down before attempting to drain and prepare it for movement. Hot metal and water may cause serious burns.

After the water heater has cooled down, prepare it for packing as described under packing instructions for TRICON 10D in this WP.

## PREPARATION FOR MOVEMENT OF SEWAGE EJECTION PUMP, WASTE WATER EVACUATION

The following procedures outline the steps to prepare the SEP equipment for movement.



### WARNING

The SEP tank and all components must be thoroughly steam cleaned, disinfected and allowed to completely dry before components are prepared for packaging to prevent contamination and infection to exposed personnel.

1. Remove tank cover. Spray P14 preservative into the pump through the output port.
2. Locate the heating element and float switch in the tank. Wrap heating element and float switch in barrier material and secure with tape. Place a minimum of two wraps cushioning around each item. Secure cushioning material in place with tape.
3. Secure heating element and float switch from movement inside the sewage ejection pump, waste water evacuation tank with twine.
4. Install all dust caps and plugs, as required, onto plumbing fittings and couplings. Place a minimum of two wraps cushioning material around each item. Secure cushioning material in place with tape.
5. Place each wrapped item in a close fitting, heat sealed Bag using barrier material. Place couplings and fittings into a fiberboard container. Close the container with tape.
6. Locate Technical Manual, Sewage Ejection Pump, TM 10-4630-206-12&P. Place the TM in a single bag made with barrier material and secure with tape. Place box and technical manual inside sewage ejection pump, waste water evacuation tank. Secure in place. Fill voids between pump and tank walls with honeycomb to prevent movement during transportation.
7. Wrap the connectors on each end of the power cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.
8. Replace and secure cover.

## PREPARATION FOR MOVEMENT OF FLOODLIGHT EQUIPMENT

Prepare the 1,000W and 2,000W Floodlights and associated equipment for movement as described in WP 0051 00.



**FIELD PACKING REFRIGERATION KIT, PART A, ISO TYPE 10A**

This paragraph provides information to pack equipment into ISO 10A. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the ISO. The following procedures are for field packing one type 10A ISO container. Packaging materials, tiedowns, and dunnage retained during unpacking will be needed to repack the 600-cubic-foot refrigerators.

**Pertinent References:**

For a complete inventory of ISO type 10A refer to Table 1, WP 0031 00.

For information and illustrations of 600-cubic-foot refrigerators refer to TM 9-4110-241-13.

For information and illustrations of other food service components refer to WP 0093 00.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

Once the 600-cubic-foot refrigerators have been disassembled as described in TM 9-4110-241-13, prepare the following components for packing into ISO Container 10A:

**Table 1. 600-Cubic-Foot Refrigerator Components to be Packed in ISO Container 10A.**

<b>Subcomponent</b>	<b>NSN/Part No</b>	<b>Quantity</b>
Floor / Ceiling Panel, Left	5410-01-040-0089	4
Floor / Ceiling Panel, Center	5-13-2660 (81337)	4
Floor / Ceiling Panel, Right	5-13-2659 (81337)	4
Wall Panels	5-13-2654 (81337)	9
Floor Racks, Small	4110-01-190-7346	8
Floor Racks, Large	5-13-2669 (81337)	4
Door Canopies	4130-01-150-9861	2
Corner Panels	5-13-2653 (81337)	8
Evaporator Panels	5-13-2657 (81337)	1
Walk In Door Panel	4130-01-150-9861	2
Thermometers	6685-01-079-1791	2
Light Assemblies	r2310410 (57519)	2
Socket Head Set Screw Keys	5120-00-198-5409	4
Technical Manual, Prefabricated Refrigerator	TM 9-4110-241-13	2
Technical Manual, Prefabricated Refrigerator	TM 9-4110-241-23P	2

The following 600-cubic-foot refrigerator components should be set aside for packing into TRICON 10I:

**Table 2. 600-Cubic-Foot Refrigerator Components to be Packed in TRICON 10I.**

<b>Subcomponent</b>	<b>NSN/Part No</b>	<b>Quantity</b>
Wall Panels	5-13-2654 (81337)	3
Evaporator Panels	5-13-2657	1

The following 600-cubic-foot refrigerator components should be set aside for packing into TRICON 10J:

**Table 3. 600-Cubic-Foot Refrigerator Component to be Packed in TRICON 10J.**

<b>Subcomponent</b>	<b>NSN/Part No</b>	<b>Quantity</b>
Wall Panels	5-13-2654 (81337)	4

To prepare subcomponents for packing into ISO Container 10A, proceed as follows:

1. Locate two each thermometers, two each light assemblies, two each TM 9-4110-241-13 and two each TM 9-4110-241-23P.

2. Prepare the thermometers and light assemblies by wrapping each item in two layers of cushioning material and secure in place with tape. (Refer to packing materials list below.)
3. Place the technical manuals in a single bag made of barrier material. (Refer to packing materials list below.) Seal with tape.
4. Pack thermometers, light assemblies and technical manuals into an original manufacturer's box, if available, or a close fitting fiberboard box. Secure box with tape.
5. Locate four each socket head set screw keys. Place two each into storage brackets on the evaporator panels.
6. Locate walk in door sections. Place strips of vapor barrier material in between the door and the door gasket.
7. Lightly lubricate door hinges, latch assembly and all strike catch clamps with low viscosity lubricating oil (5, or 10W SAE). Remove access oil.

**Packing Procedures for ISO Container 10A**

The following packing materials and other items are required to pack ISO Container 10A:

**Table 4. ISO Container 10A Packing Materials.**

Item, (NSN)	Qty
Pad, Energy Dissipating, 3-In Thick (Honeycomb), (NSN 1670-00-753-3928)	As required
Corrugated Fiberboard Stock, ASTM-D4727	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Lubricating Oil, Mil-L-2140;	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Special Purpose Web Tiedown (NSN 3990-01-204-3009)	11

1. Locate ISO Container with "REFRIGERATION KIT, PART A; CO. TYPE 10A..." stenciled on the left door (this container should be staged in the food service area, close to the 600 cubic-foot refrigerators).
2. Open doors and remove everything from container. Ensure interior is clean and dry. Inspect the container for any physical damage, and that all doors and latches operate properly.
3. Locate eleven each special purpose web, tiedown. Attach the non-ratchet end of the tiedown straps, to the tiedown locations on the left side of the ISO Container. Temporarily locate ends of the straps out of the way to facilitate loading of the ISO Container.
4. Locate four each refrigerator floor/ceiling panels, left and four each floor/ceiling panel, center.
5. Stack one each floor/ceiling panel, left and floor/ceiling panel, center on the floor firmly against the left side and rear walls of the ISO Container.
6. Stack the remaining panels in alternating rows. Place a sheet of fiberboard material between the floor and the panel sections, and in between the sections.
7. Locate four each floor/ceiling panels, right. Place these on top of the stack formed by the floor/ceiling panels, left and floor/ceiling panel, center. Form two stacks of two rows. Place a sheet of fiberboard material between the sections. Fill in between the stacks of floor/ceiling panel, right with fiberboard material as needed, to maintain stack placement.

8. Locate six each refrigerator wall panels. Stack on top of floor/ceiling panels in three stacks of three panels each. Place a sheet of fiberboard material between the sections.
9. Secure five each special purpose web, tiedown over the panel sections, connecting the ratchet end to the non-ratchet end of each strap.
10. Locate eight each floor racks, small and four each floor racks, large. Stack the racks on top of the wall panels, firmly against the left side and rear walls of the container. Place a sheet of fiberboard material between the floor racks and the wall panels.
11. Locate two each door canopies. Stack next to the wall panels on top of the floor panels as shown. Place a sheet of fiberboard material between the door canopy panels and the wall and floor panels.
12. Locate eight each corner panels. Place on top of the wall panels firmly against the floor racks, and the left side of the container. Place fiberboard material between the corner and the wall panels.
13. Locate one each evaporator panel, two each walk in door panels, and three each wall panels.
14. Place the evaporator panel on the floor of the container next to the stacked floor panels.
15. Place the three wall panels, standing on the side, against the floor panels, followed by the two walk-in door panels, as shown.
16. Place a sheet of fiberboard material between the floor and the panel sections, and in between the sections. Place honeycomb material between first walk in door section and second section to protect the door hardware.
17. Place the box of miscellaneous items and the technical manuals on the right side of the container, next to the last tiedown location as shown.
18. Secure the top layer of sections with tiedown straps as shown.

19. Close and secure ISO Container doors.

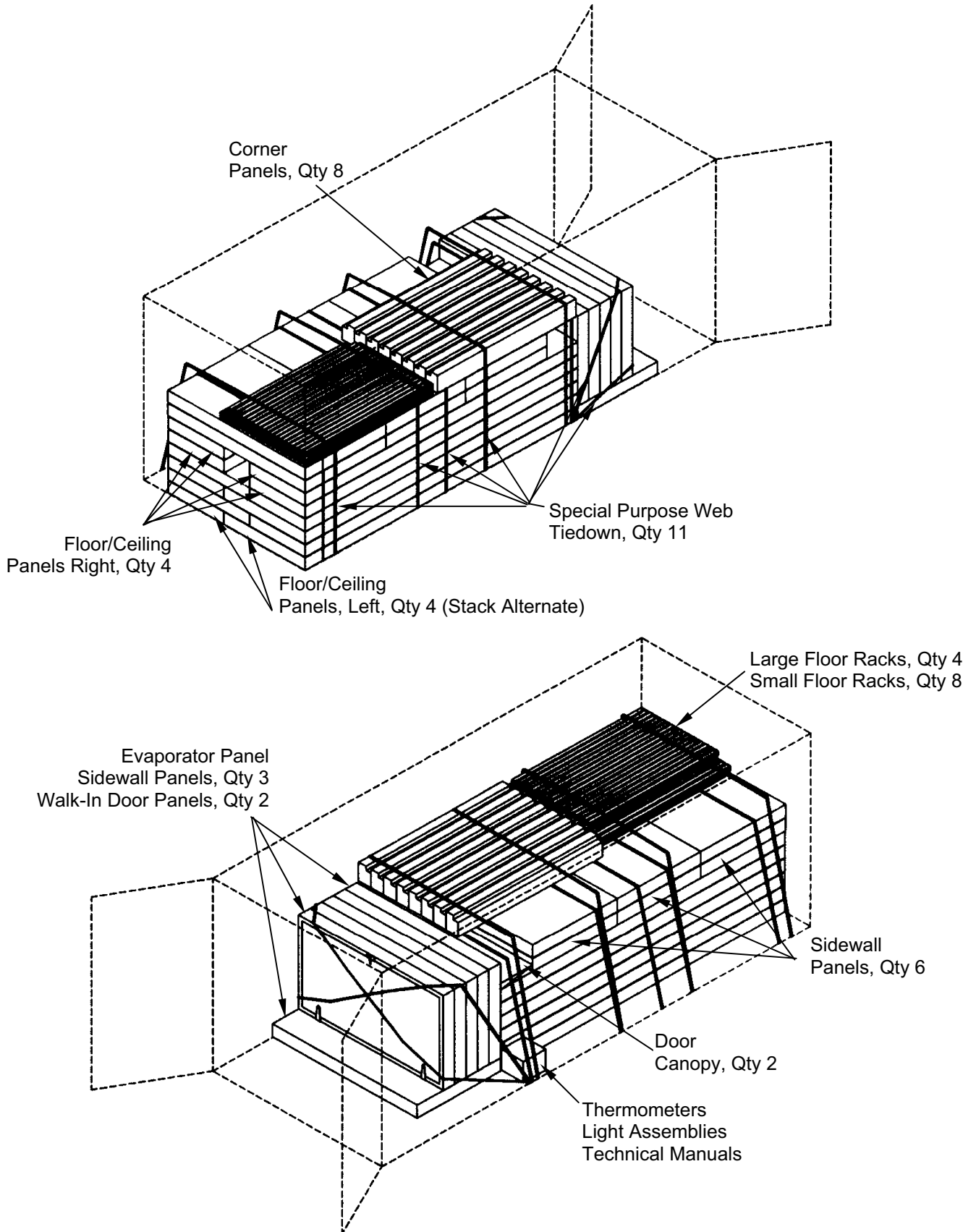


Fig 1. Field Packing Refrigeration Kit Part A ISO Type 10A.

**FIELD PACKING SANITATION KIT TRICON TYPE 10C**

This paragraph provides information to pack equipment into TRICON 10C. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one type 10C TRICON. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 10C refer to Table 2, WP 0031 00.

For information and illustrations of sanitation center equipment, refer to TM 10-7360-211-13&P.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

Prepare sanitation equipment for packing as follows:

**NOTE**

Do not prepare used or soiled cleaning equipment such as brooms and mop heads for packing. Dispose of these items locally.

1. Locate one each mop wringer, two each mop heads (unused items only) one each mop bucket, one mop handle, and five brooms (unused). Wrap each item in barrier paper and seal with tape. Place each item inside original shipping box, if available, or close fitting fiberboard container.
2. Locate eleven each ash and garbage cans, 32-Gallon, steel. Nest cans in two stacks of four each and one stack of three each. Place dunnage in the bottom of the cans to prevent the cans from jamming, and ease separation.
3. Locate two each food sanitation center. Prepare the following food sanitation center components for packing in TRICON 10C:

**Table 5. Food Sanitation Center Components to be Packed in TRICON 10C.**

<b>Subcomponent</b>	<b>NSN/Part No</b>	<b>Quantity</b>
TEMPER, Type VII, 16-ft, Green (NOT USED)	8340-01-185-2613	1
Burner Unit, M2A (NOT USED)	7310-01-113-9172	3
Lantern, Gasoline (NOT USED)	6260-00-837-0996	2
Thermometer, 5½-inch	6685-00-580-3508	3
Fire Extinguisher, Dry Chemical, 5- Pound	4210-01-149-1356	1
Drain Hose Assembly, Three Sinks	4720-01-333-8489	1
Drain Hose Assembly, Single Sink	4720-01-333-8488	1
Adaptor, Sink	7320-01-333-9188	2
Rack, Sink, Immersion	7320-01-334-3160	2
Bracket, Angle	5340-01-333-8483	3
Technical Manual, Sanitation Center	TM 10-7360-211-13&P	1
Sink Assembly	7320-01-333-9186	3
Table, Drain	7105-01-333-8492	1
Table, Folding Legs	7305-01-333-8493	1
Shelf, Table	7125-01-333-8486	1
Trash Barrel, 32-Gallon	7240-00-151-6629	2
Rack Assembly, Storage/Drying	7125-01-334-3159	3

4. Locate three each thermometers. Keep thermometers in the commercial packaging as received, if available. Wrap in a minimum of three layers of cushioning material. Secure in place with tape. (Refer to packing materials list below.)

5. Locate one each fire extinguisher. Wrap the fire extinguisher in cushioning material and secure in place with tape. Place wrapped fire extinguisher inside original shipping box or a close fitting fiberboard container. Secure with tape.
6. Locate one each drain hose assembly, three sinks, and one each drain hose assembly, single sink. Prepare in accordance with the procedure below:
  - a. Drain hose assembly, three sinks and single sink.
  - b. Coat the internal and external surfaces of the hose fittings with P14 preservative and install all dust caps and plugs if provided.
  - c. Wrap each hose coupling in two layers of cushioning material around the fitting and secure in place with tape.
  - d. Wrap each coupling in barrier material. (Refer to packing materials list below)
  - e. Secure in place with tape.
  - f. Coil hoses to a diameter not greater than 30-inches and then secure each roll with twine. (Refer to packing materials list below.)
7. Locate two each sink adapters, two each sink, immersion racks, and three each angle brackets. Wrap each item in protective paper and secure with tape.
8. Locate one each TM 10-7360-211-13&P. Place the manual in a bag made of barrier material and secure with tape.
9. Locate three each sink assemblies consisting of the following items:

**Table 6. Sink Assembly Components.**

<b>Subcomponent</b>	<b>NSN/Part No</b>	<b>Quantity</b>
Cover, Sink	5430-01-333-8485	1
Body Assembly, Sink	4510-01-333-9187	1
Rack, Burner	7360-01-250-3649	1
Rack, Base	7360-01-250-3652	1

10. Nest the sink assembly components, adding filler/fiberboard to prevent nested metal components from contact.
11. Locate one each drain table, one each folding table, and one each shelf, table. Place tables inside original shipping box, if available, or a close fitting fiberboard container.
12. Locate six each rack assembly, storage/drying component of the food sanitation center. Prepare by lining the inside walls of the rack assembly with fiberboard sheet material.
13. Place the following items previously prepared into one storage rack:

**Table 7. Miscellaneous Items to be Packed into Storage Rack.**

Subcomponent	NSN/Part No	Quantity
Fire Extinguisher	4210-01-149-1356	1
Broom, Upright	7920-00-291-8305	5
Wringer, Mop, Size-Small, Type Gear& Rack	7920-00-682-6861	1
Bucket, Mop, Steel, Oval, 16-Quart/ W Casters	7920-00-926-5243	1
Mop Head	7520-00-141-5550	2
Mop Handle	7920-00-267-1218	1

14. Place the following items previously prepared into each one of two storage racks:

**Table 8. Items to be Packed into Storage Racks.**

Subcomponent	NSN/Part No	Quantity
Drain Hose Assembly, Three Sinks	4720-01-333-8489	1
Drain Hose Assembly, Single Sink	4720-01-333-8488	1
Adapter, Sink	7320-01-333-9188	2
Rack, Sink, Immersion	7320-01-334-3160	2
Thermometers, 5½-In	6685-00-580-3508	3
Trash Barrel, 32-Gallon (With Covers)	7240-00-151-6629	2
Bracket, Angle	5340-01-333-8483	3
Technical Manual, Food Sanitation Center	TM 10-7360-211-13&P	1

15. Place the following items previously prepared into each one of two storage racks:

**Table 9. Items to be Packed into Storage Racks.**

Subcomponent	NSN/Part No	Quantity
Can, Ash and Garbage, 32-Gallon, Steel, Galvanized	7240-00-160-0440	4
Cover, Can, Ash and Garbage	7240-00-161-1143	4

16. Place the following items previously prepared into one storage rack:

**Table 10. Items to be Packed into Storage Rack.**

Subcomponent	NSN/Part No	Quantity
Can, Ash and Garbage, 32-Gallon, Steel, Galvanized	7240-00-160-0440	3
Cover, Can, Ash and Garbage	7240-00-161-1143	3

17. Use fiberboard sheet and cushioning material to protect and separate items packed into the rack assemblies. Use fiberboard and/or honeycomb to create a tight pack.
18. Secure the removable section to the front of the rack using wire ties.
19. Place rack inside original manufacturer's box, if available, or a close fitting fiberboard container.
20. Secure the fiberboard container with tape.

## Packing Procedures for TRICON 10C

The following packing materials and other items are required to pack TRICON 10C:

**Table 11. TRICON Type 10C Packing Materials.**

Item, (NSN)	Qty
Pad, Energy Dissipating, 3-In Thick (Honeycomb), (NSN 1670-00-753-3928)	As required
Corrugated Fiberboard Stock, ASTM-D4727	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Lumber, 2-Inch X 6-Inch X 75 ¾-Inch Long	2
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Shelf, Shipping and Storage (NSN 8145-01-503-4404)	4
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Twine, Cotton, Wrapping, T-T-871	As required
Shoring Beam (NSN 9540-01-491-3804)	8
Special Purpose Web Tiedown (NSN 3990-01-204-3009)	2

Use the following procedures to pack equipment into TRICON Type 10C:

20. Locate TRICON with "SANITATION KIT; CO. TYPE 10C..." stenciled on the left door (this container should be staged in the food service/sanitation center area).
21. Open doors and remove everything from container. Ensure interior is clean and dry. Inspect the container for any physical damage, and that all doors and latches operate properly.
22. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
23. Locate three each sink assemblies, with nested parts. Place on the TRICON floor with the front of the sink against the left TRICON wall. Place fiberboard packing between sinks and between the sinks and the TRICON to prevent metal to metal contact.
24. Locate three each pre-packed storage racks. Place on the TRICON floor against the right side with the longer side of the racks facing the front of the TRICON. Place fiberboard packing between racks, sinks and container wall to prevent metal to metal contact.
25. Use honeycomb filler material, as necessary, to create a tight pack. Install one, 2-inch x 6-inch x 75 ¾-inch lumber brace across the front of this layer to support and secure the containers and boxes.
26. Locate four each shoring beams and two each storage shelves. Install the shoring beams onto the vertical uprights of the TRICON, were marked (top and bottom (lower marking)). Install the two shelves on top of the brackets.
27. Place one layer of fiberboard on the TRICON shelf. Trim excess fiberboard as required.
28. Locate three each sink assemblies, with nested parts. Place on the TRICON shelf with the front of the sink against the right TRICON wall. Place fiberboard packing between sinks and the TRICON to prevent metal to metal contact.
29. Locate three each pre-packed storage racks and place on the TRICON shelf against the left side with the longer side of the racks facing the front of the TRICON. Place fiberboard packing between racks, sinks and container wall to prevent metal to metal contact.
30. Use honeycomb filler material, as necessary, to create a tight pack. Install one, 2-inch x 6-inch x 75 ¾-inch lumber brace across the front of this layer to support and secure the containers and boxes.



31. Locate four each shoring beams and two each storage shelves. Install the shoring beams onto the vertical uprights of the TRICON, were marked (top and bottom (upper marking)). Install the two shelves on top of the brackets.
32. Locate two each special purpose web, tiedown. Install the non-ratcheted end in the rear corners of the TRICON, just above the top of the supports. Place straps out of the way during the loading of the third layer.
33. Locate two each drain tables, two each folding tables, two each shelves, table. Place items on the shelf, and secure in place with tiedown straps.
34. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents from falling out when the doors are opened.
35. Ensure that three each TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.

36. Close and secure TRICON door.

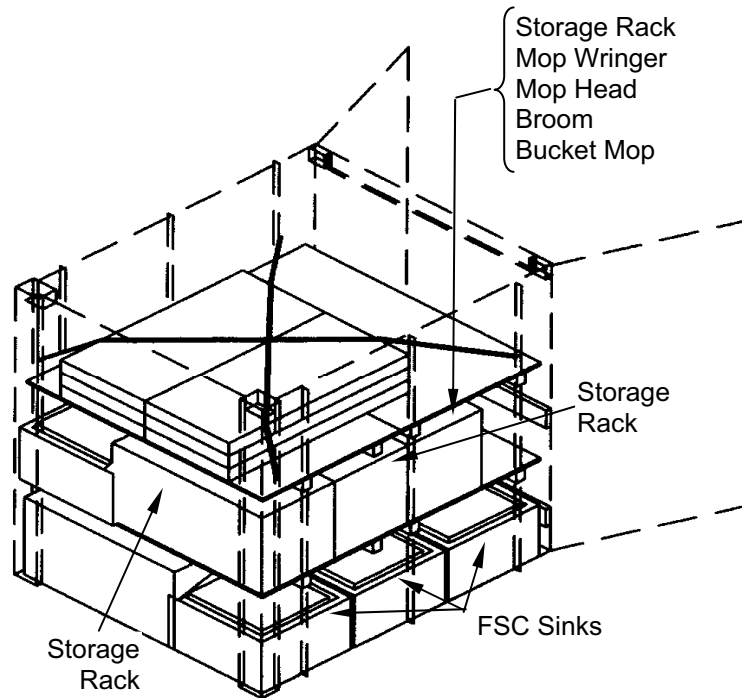
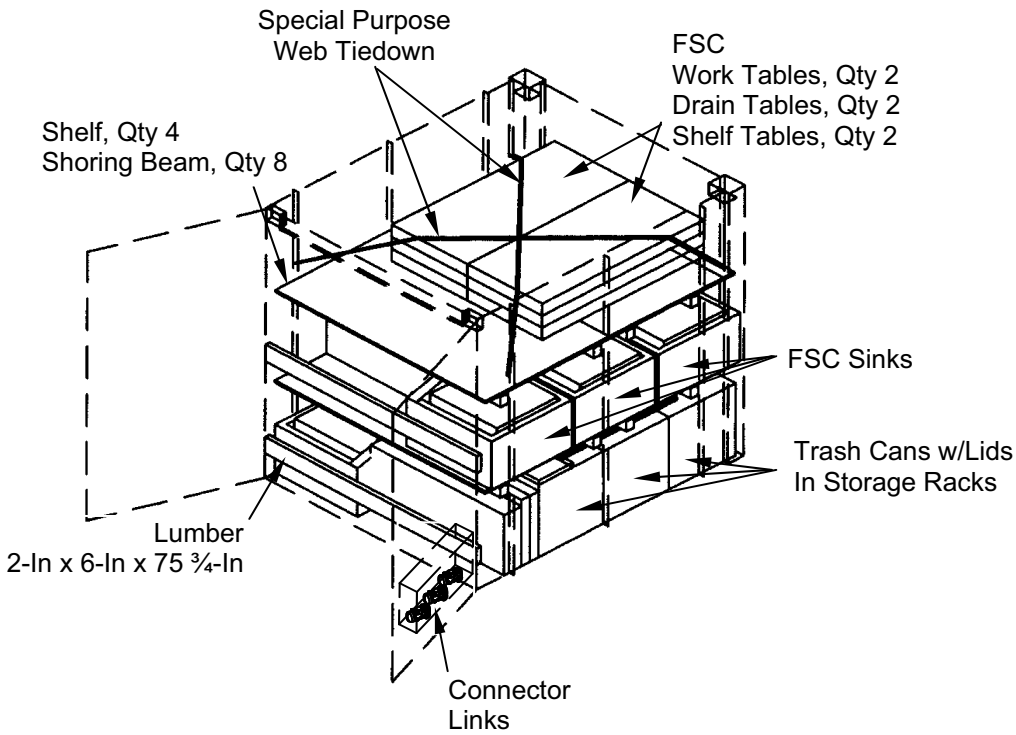


Fig 2. Field Packing Sanitation Kit TRICON Type 10C.

**FIELD PACKING FOOD SERVICE WATER DISTRIBUTION KIT TRICON TYPE 10D**

This paragraph provides information to pack equipment into TRICON 10D. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one type 10D TRICON. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 10D refer to Table 3, WP 0031 00.  
 For information and illustrations of water distribution equipment refer to WP 0093 00.  
 For information and illustrations of the M80 Water Heater refer to TM 10-4520-259-13&P.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

Prepare food service water distribution equipment for packing as follows:

1. Locate water distribution kit components. These should have been previously disassembled, inspected, cleaned and pre-positioned in the vicinity of TRICON 10D. The Force Provider, Modular Field Kitchen, Water Distribution Kit consisting of the components listed below:

**Table 12. Water Distribution Kit Components.**

<b>Subcomponent</b>	<b>NSN/Part No</b>	<b>Qty</b>
Hose Assembly, QDISC, Cam-Lock, 1-1/2-In X 25-Ft, Rubber, Discharge, Potable Water	4720-01-174-8173	1
Hose Assembly, QDISC, Cam-Lock, 1-1/2-In X 10-Ft, M X F, Rubber, Discharge, Potable Water	4720-01-438-8343	1
Hose Assembly, QDISC, Cam-Lock, 1 In X 25-Ft, M X F, Cold Water Supply	9-1-0159 (81337)	1
Hose Assembly, QDISC, Cam-Lock, 1 In X 25-Ft, F X F, Hot Water Supply	9-1-0160 (81337)	1
Hose Assembly, QDISC, Cam-Lock, 1-1/4 In X 40-Ft, F X F, Drain	9-1-0161 (81337)	5
Hose Assembly, 1/2-In, Cold Water Supply, Tee, Ice Machine	9-1-0163 (81337)	1
Hose Assembly, 1/2-In, Cold Water Supply, Double Tee, Sanitation Center	9-1-0164 (81337)	1
Hose Assembly, 1/2-In, Cold Water Supply, Tee, Kitchen And Dining Facility	9-1-0165 (81337)	1
Hose Assembly, 1/2-In, Cold Water Supply, Stock Pots	9-1-0166 (81337)	1
Hose Assembly, QDISC, Cam-Lock, 1/2 In, M X F, Cold Water Supply, Food Preparation Tent	9-1-0167 (81337)	1
Hose Assembly, QDISC, Cam-Lock, 1/2 In X 40-Ft, F X F, Hot Water Supply	9-1-0168 (81337)	2
Hose Assembly, QDISC, Cam-Lock, 1/2 In, Hot Water Supply, Double Tee, Sanitation Center	9-1-0169 (81337)	1
Hose Assembly, Potable Water, QDISC, Cam-Lock, 1/2-In X 25-Ft, M X F	9-1-0781-5 (81337)	2
Hose Assembly, Black Water, QDISC, Cam-Lock, 2 In X 25-Ft, M X F	9-1-0782-15 (81337)	2
Hose Section, 1-1/4-In X 45-Ft, Water	9-1-0709 (81337)	4
Hose Section, 1-n X 25-Ft, Water	1-6-688-1 (81337)	4
Hose Section, 1/2-In X 40-Ft, Water	1-6-694-6 (81337)	4
Hose Section, NYLOBRAID, 1/2-In X 100-Ft Coil	5238k758 (39428)	3
Manifold, Water Distribution	1-6-705 (81337)	1
Faucet, Double	4510-01-223-2422	4
Tee Assembly, QDISC, Cam-Lock, 1-1/2-In FC X 1-1/2-In F X 1-In M	9-1-0158 (81337)	1
Tee Assembly, QDISC, Cam-Lock, 1-1/4-In M, Steam Table Drain	9-1-0707 (81337)	1
Cross Assembly, Waste Water, 1-1/4-In, M X M X M X M	9-1-0162 (81337)	1
Coupling Half, QDISC, Cam-Lock, Male Hose Shank, Type II, 1/2-In, Brass	4730-01-139-4511	2
Coupling Half, QDISC, Cam-Lock, Male Hose Shank, Type II, 1-1/4-In, Brass	4730-00-542-4030	2
Coupling Half, QDISC, Cam-Lock, Female Hose Shank, Type VI, 1/2-In, Brass	MS 27025-2 (96906)	2
Coupling Half, QDISC, Cam-Lock, Female Hose Shank, Type VI, 1-1/4-In, Brass	4730-00-542-4031	4
Coupling Half, QDISC, Cam-Lock, Cap, Type Ix, 1/2-In, Brass	4730-01-233-0796	2

**Table 12. Water Distribution Kit Components - Continued.**

<b>Subcomponent</b>	<b>NSN/Part No</b>	<b>Qty</b>
Coupling Half, QDISC, Cam-Lock, Cap, Type Ix, 1-1/4-In, Brass	Ms 27028-8	2
Coupling Half, QDISC, Cam-Lock, Plug, Type X, 1/2-In, Brass	4730-01-393-0988	2
Coupling Half, QDISC, Cam-Lock, Plug, Type X, 1-1/4-In, Brass	Ms 27029-8	2
Gasket, Coupling Half, QDISC, Cam-Lock, 1/2-In	5330-01-138-2108	1
Gasket, Coupling Half, QDISC, Cam-Lock, 1-In	5330-00-088-9167	1
Gasket, Coupling Half, QDISC, Cam-Lock, 1-1/4-In	5330-00-551-4572	1
Tape, Antiseize, Size 2, 1/2-In Wide X 260-In Long	8030-00-889-3535	10
Pipe Fitting, Coupling, Brass, 1/2 In, F, NPT	4730-01-518-3759	5
Pipe Fitting, Tee, Brass, 1/2-In, F, NPT	4730-01-235-3007	5
Hose Fitting, Brass, 1/2-In Barbed XM NPT	5362k11 (39428)	25
Compression Tube Fitting, 3/8 In NPTF X 1/2-In Tube	50915k225 (39428)	1
Compression Tube Fitting, 1/2-In NPTF X 1/2-In Tube	50915k228 (39428)	1
Hose Nipple, 1/4-In NPTF X 1/2-In Hose, Brass	5346k22 (39428)	4
Hose Nipple, 1/2-In NPTF X 1/2-In Hose, Brass	4730-01-226-3302	1
Hose Nipple, 3/8-In NPTF X 1/2-In Hose, Brass	5346k32 (39428)	4
Hose Nipple, 3/4 In NPTF X 1/2-In Hose, Brass	5346k88 (39428)	4
Clamp, Hose, Low Pressure, Type F, SAE#10	4730-01-479-1934	25
Clamp, Hose, Low Pressure, Type F, SAE#12	4730-00-908-3194	24
Clamp, Hose, Low Pressure, Type F, SAE#24	4730-00-908-3193	24

2. Locate the hose assemblies. Coat the internal and external surfaces of the hose fittings with P14 Preservative.
3. Install all dust caps and plugs if provided.
4. Wrap the fittings in barrier material and secure with tape. Place a minimum of two wraps of cushioning material around the fitting. Secure with tape.
5. Hoses should be rolled so diameter is not greater than 30-inches and then secured with twine.
6. Locate the hose sections. Seal ends of hose sections with tape.
7. Hoses should be rolled so diameter is not greater than 30-inches and then secured with twine.
8. Locate one each water distribution manifold, four each double faucets, two each Tee assemblies, one each cross assembly, and all coupling halves.
9. Coat the internal and external surfaces of fittings with P14 Preservative.
10. Install all dust caps and plugs, if provided.
11. Wrap in a minimum of two layers of cushioning material around each item. Secure cushioning material in place with tape.
12. Place each wrapped item in an individual close fitting bag of barrier material. Secure with tape.
13. Locate three each gaskets and ten each rolls of tape, antiseize, size 2, 1/2-inch wide x 260-inch long. Prepare as described in Paragraph 16 below.
14. Locate pipe fittings, hose fittings, compression tube fittings, and hose nipples. Prepare as described in Paragraph 16 below.
15. Locate clamp, hose, low pressure, type F, SAE #10, SAE #12, and SAE #24. Prepare as described in Paragraph 16 below.

16. Place items in a close fitting bag of barrier material and secure with tape.
17. Retrieve from TRICON 10D, or fabricate as necessary, a wooden crate with a removable lid to house the water distribution manifold. The boxes outer dimensions shall be 29½-in x 21-in x 20-in high. Use honeycomb to create a tight pack. Secure lid with steel strapping or nails.
18. Retrieve from TRICON 10D, or fabricate six each fiberboard boxes with the dimensions of 25-in x 23 ½-in x 21-in high.
19. Evenly distribute the components of the water distribution kit into the containers. Secure the boxes with tape.
20. Locate two each M80 Water Heater shut down previously as described in TM 10-4520-259-13&P, including the following subcomponents, and prepare for packing as follows:

**Table 13. M80 Water Heater Components.**

Subcomponent	NSN/Part No	Quantity
Elbow, air conditioning	4520-01-311-0900	1
Pipe, air conditioning	4520-01-306-2111	2
Cap, flue	4520-01-306-2057	1
Drum fill adapter assembly, Type II	4510-01-214-9139	1
Hose assembly, Fuel	4720-00-063-7222	2
Technical manual, M80 Water Heater	TM 10-4510-206-14	1



**WARNING**

Prevent fuel spills by draining fuel hoses into an approved container and cleaning up any spills. Fuel presents a fire hazard and irritates the skin upon exposure.

- a. Locate the two each fuel hose assemblies. Drain fuel from hose into an authorized container, as necessary.
- b. Thread the end of one hose to the fuel feed connection. Coil hose into loose loops and connect the other end to the fuel line holder.
- c. Thread end of the second hose to the fuel overflow connection. Coil hoses into loose loops and connect the other end to the fuel line holder.
- d. Locate the drum fill adapter assembly. Remove drum adapter extension and tread into the ¼- inch return port. Hand-tighten.
- e. Secure top of adapter close with nylon cable zip tie.
- f. Wrap each drum adapter in cushioning material and secure in place with tape.
- g. Secure adapter to water heater frame, at fuel hose storage connection, with nylon cable zip ties.
- h. Locate TM 10-4510-206-14 and place it in a bag made of barrier material. Secure with tape.
- i. Open all valves and drain cocks on M80 Water Heater.

- j. Seal openings on the valves, drain cocks, air shutter, smoke stack, manifold, fuel fittings, and electrical motor with barrier material. Secure in place with tape. Seal with tape.
  - k. Cover gauges, sight glasses, and dials with barrier material. Secure in place with tape.
  - l. Locate one each pipe, air conditioning, and one each elbow, air conditioning, assembly and attach to the M80 Water Heater at the appropriate location.
  - m. Locate one each pipe, air conditioning, and one each cap, flue. Wrap in cushioning material and secure in place with tape.
  - n. Secure to water heater with nylon cable zip ties on the right side (facing the exhaust stack end).
21. Locate two each 20A power cables, Class L to Commercial. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape.
  22. Wrap each connector end in barrier material. Secure in place with tape.
  23. Neatly coil each assembly and secure with twine or nylon cable zip ties.
  24. Locate seventeen each folding tables. Place tables inside original shipping box, if available, or a new fiberboard box with outer dimensions of 75-inch long x 32½-inch wide x 9-inch high.
  25. Seal the boxes with tape.
  26. Locate four each benches and place each bench inside the original shipping box, if available, or a new, close fitting fiberboard box with outer dimensions of 73-in long x 14½-inch wide x 3½-inch high. Secure boxes with tape.

**Packing Procedures for TRICON 10D**

The following packing materials and other items are required to pack TRICON 10D:

**Table 14. TRICON Type 10D Packing Materials.**

Item, NSN	Qty
Pad, Energy Dissipating, 3-in Thick (Honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inch X 6-inch X 75 ¾-inch Long	1
Lumber 2-inch X 6-inch	As required
Corrugated Fiberboard Stock, ASTM-D4727	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Twine, Cotton, Wrapping, T-T-871	As required
Special Purpose Web Tiedown, NSN3990-01-204-3009	5

Use the following procedures to pack equipment into TRICON Type 10D:

1. Locate TRICON with “FOOD SERVICE WATER DISTRIBUTION KIT; CO. TYPE 10D...” stenciled on the left door (this container should be staged in the food service area).
2. Open doors and remove everything from container. Ensure interior is clean and dry. Inspect the container for any physical damage, and that all doors and latches operate properly.

3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate four each special purpose web, tiedown. Connect one end of each tiedown strap to the lower tiedown loop in each rear corner and approximately center of the side wall of the container.
5. Locate two each M80 Water Heaters. Place the heaters lengthwise, side by side in the back of the TRICON. Ensure that the stack end of the water heater faces towards the front of the TRICON.
6. Retrieve, or prepare, braces of 2-inch x 6-inch lumber that will fit between each of the M80 bases and between the TRICON side walls and the M80s to prevent side to side movement of the heaters.
7. Locate the previously prepared water distribution kit hose assemblies. Place the coiled hose assemblies between the M-80 water heaters and the TRICON sidewalls, as shown.
8. Connect and secure the tiedown straps by crossing them over the M-80 water heaters and connect to the corresponding tiedown loop, as shown. When crossing the straps over the water heater take care to ensure that no portion of the heater is being damaged.
9. Locate the box containing the water distribution manifold. Place it in front of the M-80 Water Heater on the right hand side of the TRICON.
10. Locate the six each fiberboard boxes containing miscellaneous water distribution kit components. Place honeycomb material in front of the M-80 Water Heaters. Place the six fiberboard boxes in the front of the TRICON, in three stacks, two high, as shown.
11. Locate one special purpose web, tiedown. Connect the tiedown strap to the floor tiedown loop near the middle of the fiberboard boxes. Connect the strap to the opposite tiedown loop. Ensure that the boxes will not move side to side during transport.
12. Locate four each shoring beams and two each storage shelves. Install the shoring beams onto the vertical uprights of the TRICON, were marked (top and bottom (lower marking)). Install the two shelves on top of the brackets.
13. Place one layer of fiberboard on the shelf. Trim excess fiberboard as required.
14. Locate fifteen each folding tables. Place ten each laying flat along the left side of the TRICON. Place five each on edge, against the right side of the TRICON.
15. Locate four each benches. Place on them on the shelf in between the tables.
16. Locate one each 55-Gallon, steel shipping and storage drum. Place it, lying down, on top of the benches, in between the tables.
17. Locate two each aluminum folding tables. Place one each table on top of the five tables standing on edge. Place honeycomb material between drum and the table to provide a level pack. Stand one table on edge in front of the tables, benches, and 55-Gallon drum, as shown.
18. Use honeycomb material to form a tight pack on this level. Place one, 2-inch x 6-inch x 75-<sup>3</sup>/<sub>4</sub>-inch lumber cross brace on this level.
19. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
20. Ensure that three each TRICON connector links are located In the holder on the lower inside of the right hand TRICON door.

21. Close and secure TRICON door.

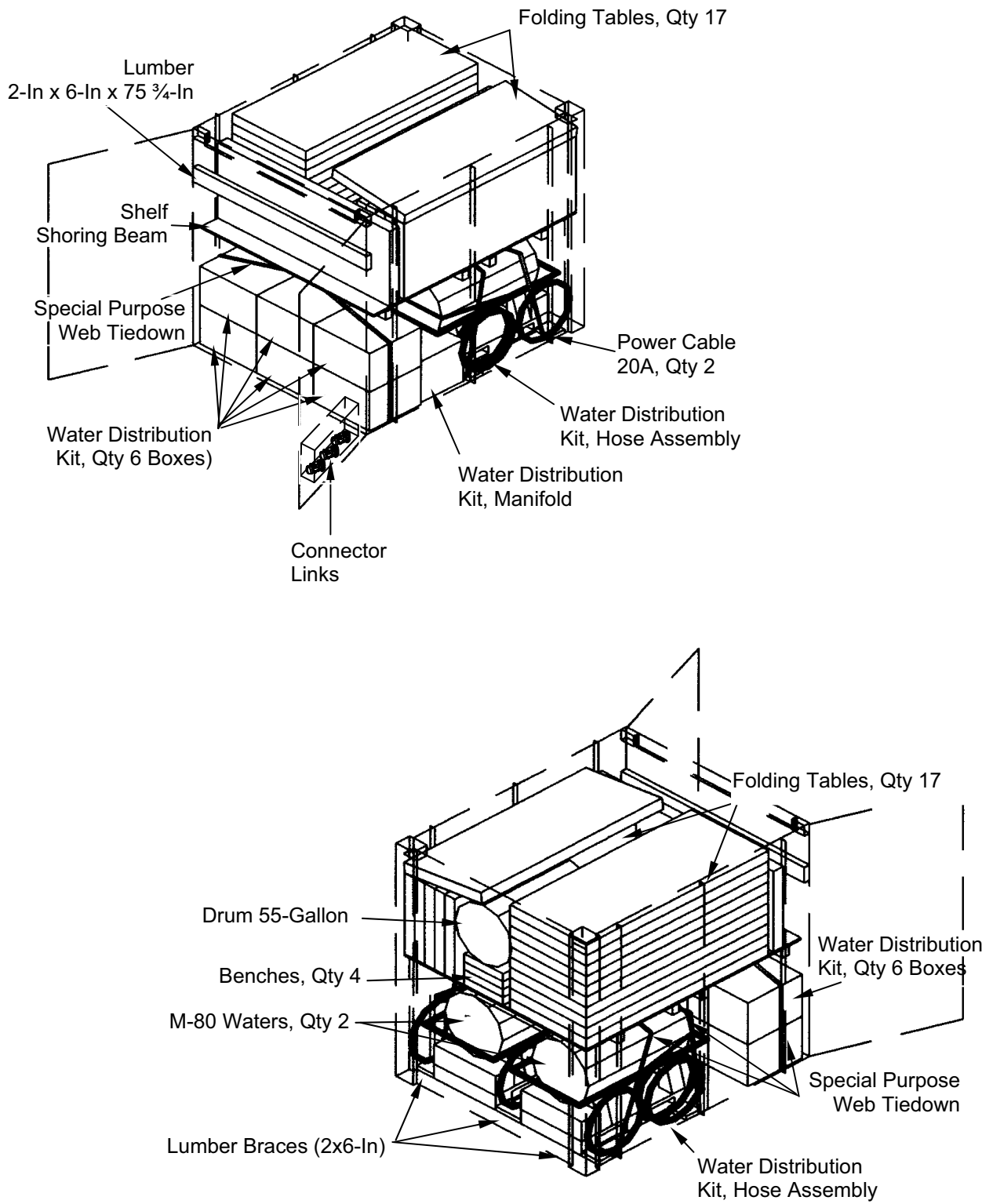


Fig 3. Field Packing Food Service Water Distribution Kit TRICON Type 10D.



**FIELD PACKING FOOD SERVICE ECU KIT TRICON TYPE 10E**

This paragraph provides information to pack equipment into TRICON 10E. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one of two type 10E TRICON. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 10E refer to Table 4, WP 0031 00.

For illustrations of the ECU refer to PREPARATION FOR MOVEMENT OF FOOD SERVICE ECU in this WP.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

To prepare equipment for packing into TRICON 10E, proceed as follows:

1. Locate fourteen each folding chairs and stack chairs in three groups of four each and one group of two each. Place protective paper between each chair. Pack each group of chairs in the original shipping container, or a replacement fiberboard container with exterior dimensions not to exceed 18-inch long x 11-inch wide x 39<sup>1</sup>/<sub>2</sub>-inch high. Use filler material for partially empty boxes. Close box.
2. Locate one pair of cotton glove inserts and two debris screens. Wrap these items in barrier material and secure with tape.
3. Obtain ten each footlockers from the billeting subsystem. Place items prepared in paragraph 2, above, into one of the footlockers. Secure the lids of all ten footlockers and place each locker inside original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inch long x 21-inch wide x 13-inch high may be used. Close boxes with tape. Stack the lockers in a central location.
4. Locate one 1,000W and one 2,000W tripod floodlights and two 50-foot extension cords. Prepare and pack floodlights as described in WP 0051 00.

**Packing Procedures for TRICON Type 10E**

The following packing materials and other items are required to pack TRICON 10E:

**Table 15. TRICON Type 10E Packing Materials.**

Item	Qty
Pad, Energy Dissipating, 3-in Thick (Honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inch X 6-inch X 75- <sup>3</sup> / <sub>4</sub> -Inch	1
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam, NSN 9540-01-491-3804	4
Bolt, Carriage, Zinc, 5/8-11 X 3-Inches	4
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Washer, 5/8, Zinc	8
Nut, 5/8-11, Zinc	4
Special Purpose Web, Tiedown NSN 3990-01-204-3009	4
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	3

Use the following procedures to pack equipment into TRICON Type 10E:

1. Locate TRICON with "FOOD SERVICE ECU KIT; CO. TYPE 10E..." stenciled on the left door (these containers should be staged in the dining tent area).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Install the rear two upper shelf supports. Install the shelf supports so that the distance from the floor to the shelf bottom is 74-inches (a paint mark will indicate the appropriate location). Place one shelf on the supports, to the rear of the container. Install one layer of honeycomb dunnage between the knuckles at the rear of the container, above the shelf to provide a flush surface at the rear of the container, above the shelf.
4. Place three each footlockers, on the shelf, all the way against the rear TRICON wall. Place one each footlocker with one each pair, cotton glove insert, and two each ECU debris screens, as previously prepared in front of the first row of footlockers against the right sidewall of the TRICON.
5. Place two each footlockers in front and center of the first row of footlockers against the left sidewall of the TRICON.
6. Install front two shelf supports at the same height as the two existing, and place one shelf against the rear shelf to provide one level surface at the same elevation.
7. Fill voids with honeycomb dunnage to ensure that items will not shift during transport. Install one each 2-inch x 6-inch lumber brace fitted to the dunnage to prevent forward movement of the boxes and dunnage on the shelf.

#### NOTE

In the event that different sized footlockers are available as equal or similar to the standard (NSN 8460-01-471-1024), packing plans may vary as required to pack items into the largest footlockers available. When necessary to mix footlockers, the larger footlockers are to be reserved for cases in which materials must be packed inside and smaller footlockers where packed empty and where space is restricted.

8. Locate two each special purpose web tiedowns. Connect the un-ratcheted ends of the tiedowns to the rear tiedown loops approximately three feet above the TRICON floor. Temporarily locate tiedown straps out of the way to facilitate loading of the ECU skid into the container.
9. Position the ECU skid inside the TRICON and block and brace between the skid and TRICON side and rear walls as necessary to prevent side-to-side or lateral movement.
10. Cross the straps over the ECU's and fasten the ratcheted ends to the tiedown loops at the front of the TRICON approximately two feet above the floor. Ensure that the straps are properly tightened, are not twisted, and/or caught up on any obstruction. Before tightening, ensure that protective nylon sleeves or additional corner protectors are in place to prevent damage to the air conditioner barrier material. Fold the ends of the tiedown straps and secure with nylon cable ties.
11. Locate four each footlockers and place on rear of ECU skid, as shown.
12. Locate four each boxes of folding chairs and place them upright, on the left side, of the ECU skid, as shown. Place the box with the two folding chairs as one of the middle boxes.
13. Locate one each box containing the 1,000W floodlight with 50-foot extension cord and one each box containing the 2,000W floodlight with 50-foot extension cord as previously prepared. Place boxes upright, on the right side of ECU skid, as shown.

14. Locate two each special purpose web tiedown straps. Connect the tiedowns together. Secure the items placed on the ECU skid by placing the special purpose web around the items. Fold end of tiedown strap and secure with nylon cable tie.
15. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Use insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
16. Ensure that three each TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.

17. Close and secure TRICON doors.

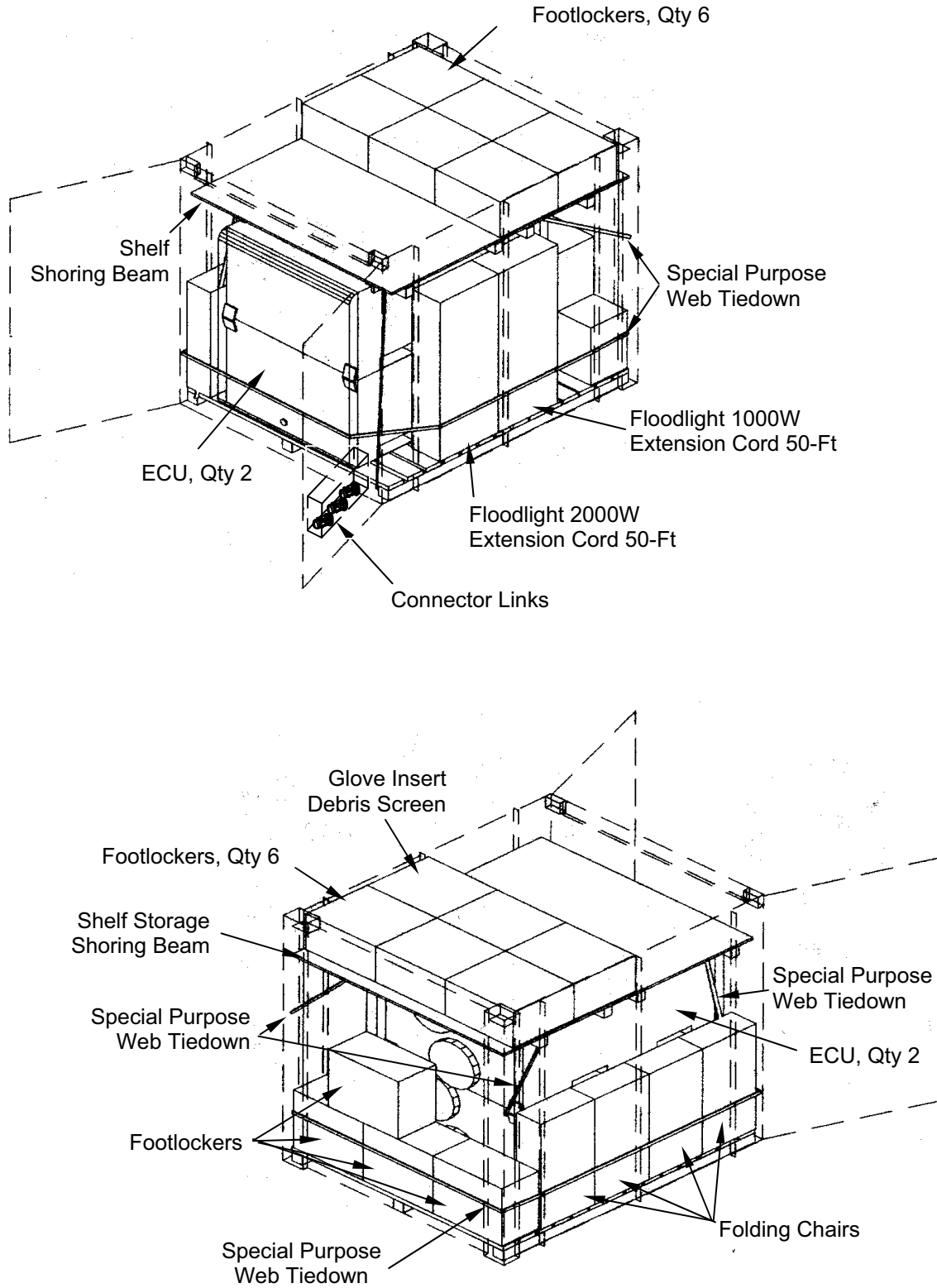


Fig 4. Field Packing Food Service ECU Kit TRICON Type 10E.

**FIELD PACKING TENT KIT, DINING, PART A TRICON TYPE 10F**

This paragraph provides information to pack equipment into TRICON 10F. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one type 10F TRICON. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 10F refer to Table 5, WP 0031 00.  
 For information and illustrations of TEMPER components refer to TM 10-8340-224-13.  
 For information and illustrations of other food service equipment refer to WP 0093 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

The 20-foot x 96-foot dining facility TEMPER Type XVIII, is being shipped in TRICON 10F and 10G. Prepare TEMPER and related components to be shipped in TRICON 10F as described in this WP. During disassembly of the TEMPER, set aside the following components for shipment in TRICON 10G:

**Table 16. TEMPER Components to be Packed into TRICON 10G.**

Item	Quantity
Pin, Tent, Wood, 24-In	50
Frame, Window Section, TEMPER (W/Cover)	2
Frame, Door Section, TEMPER (W/Cover)	2
Cover, Tent, TEMPER	3
Door Section, Temperate, TEMPER	2
Window Section, Temperate, TEMPER	3
Liner, Intermediate, Temperate, TEMPER	6
Floor, 8 Ft, Single Ply, TEMPER	6
Plenum, End Wall, 16-Ft	2
Plenum, Extendable, 16-Ft	2
Plenum, Entrance, 16-Ft	1
Door, Double Bump-through, Class A	2
Pin, Tent, Steel, 12-In	80
Container, Tent Pin, TEMPER	2

Components of Electrical Feeder System, PDISE M100 to be set aside for shipment in TRICON 10G:

**Table 17. PDISE Components for Shipment in TRICON 10G.**

Item	Quantity
Cable, Pigtail, 100A, 4-Ft	1
Cable Assembly, Service, 100A, 50-Ft	2
Strap, Cable Carrying	8

Prepare components for shipment in TRICON 10F as described below.

To prepare Tent Bundle #1 and #2, locate the following items:

**Table 18. Tent Bundle #1 and #2.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	1
Line, Tent	4

**Table 18. Tent Bundle #1 and #2 – Continued.**

<b>Item</b>	<b>Quantity</b>
Slip, Tent Line	4
Intermediate Liner, Temperate	1
Tent Floor, 8-foot, Single Ply, TEMPER	2
End Section, TEMPER	1
Line, Tent	2
Slip, Tent Line	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., “Tent Bundle 1” and “Tent Bundle #2”.
6. Repeat steps 1 through 5 above and package tent bundles #1 and, #2 are completed.

To prepare Tent Bundle #3, locate the following items:

**Table 19. Tent Bundle #3.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Window Section, D/T	1
Line, Tent	4
Slip, Tent Line	4
Intermediate Liner, Temperate	1
Tent Floor, 8-foot, Single Ply, TEMPER	2
Fly, Tent 16-foot, TEMPER	2
Line, Tent	12
Slip, Tent Line	12

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., “Tent Bundle 3”.

To prepare Tent Bundle #4, locate the following items:

**Table 20. Tent Bundle #4.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	1
Line, Tent	4
Slip, Tent Line	4
Intermediate Liner, Temperate	1
Vestibule with door, TEMPER	1
Vestibule, Tent Section	1
Door, Vestibule, Tent	1
Line, Tent	4
Slip, Tent Line	4
Fly, Tent 16-foot, TEMPER	2
Line, Tent	12
Slip, Tent Line	12

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., "Tent Bundle 4".

To prepare Tent Bundle #5, locate the following items:

**Table 21. Tent Bundle #5.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	2
Line, Tent	8
Slip, Tent Line	8
End Section Liner	2
Floor, Vestibule, Single Ply, TEMPER	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., "Tent Bundle 5".

To prepare Tent Bundle #6, locate the following items:

**Table 22. Tent Bundle #6.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	2
Line, Tent	8
Slip, Tent Line	8
Vestibule with door, TEMPER	1
Vestibule, Tent Section	1
Door, Vestibule, Tent	1
Line, Tent	4
Slip, Tent Line	4
Fly, Tent 16-foot, TEMPER	2
Line, Tent	12
Slip, Tent Line	12

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., "Tent Bundle 6".

Locate one each End Section Frame, consisting of the following components:

**Table 23. End Section Frame Components.**

Item	Quantity
Arch Assembly	2
Header Assembly	2
Purlin Assembly	5
Ridge Extender Assembly	2
Transport/Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inch long x 17-inch wide x 8-inch tall.
7. Container identification stencil must be visible, i.e., "End Section".



Locate seven Window Section Frames, each consisting of the following components:

**Table 24. Window Section Frame Components.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender Assembly	2
Transport/Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98.5-inch long x 17- inch wide x 8-inch tall.
7. Container identification stencil must be visible, i.e., "Window Section Frame Assembly".
8. Repeat steps 1 through 7, until all seven window section frame assemblies have been packaged.

Locate three vestibule frame kits, each consisting of the following components:

**Table 25. Vestibule Frame Kit Components.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

1. Locate one each vestibule frame container.
2. Place three vestibule frame assemblies inside the frame container. Place cushioning material between metal parts that contact each other in the container. Secure container with tape.
3. Container identification stencil must be visible, i.e., "Vestibule Frame Assembly".

Locate two each tent pin containers and fifty each 24-inch wood tent pins. Place 25 each tent pins inside each container. Secure container with tie provided.

Locate two each fabric tent pin containers and 120 each 12-inch steel tent pins. Place 60 each tent pins inside each container. Secure container with tie provided.

Locate or fabricate four each tent pin boxes. Locate 120 each 18-inch steel tent pins. Place 30 each tent pins inside each box. Tack each corner of the top with a nail and secure each box with steel strapping

Locate four fluorescent light sets. Place each light set into an original manufacturer's box, if available, or a fiberboard box with exterior dimensions not to exceed 75½-inch long x 22-inch wide x 7-inch high. Close boxes with tape.

Locate one TEMPER distribution box stand and wrap both ends with cushioning material. Secure with tape. Wrap fiberboard around the center mounting plate and secure it in place with tape.

Locate two TEMPER Distribution Box Assemblies, each consisting of the following components:

**Table 26. TEMPER Distribution Box Assembly.**

Item	Quantity
TEMPER Electrical Distribution Box	1
Cable Assembly, Light, 173-in	1
Cable Assembly, Light, 103-in	1
Cable Assembly, Outlet, 254-in	2
Cable Assembly, Outlet, 156-in	2

1. Record the serial number of the distribution box.
2. Completely wrap the temper electrical distribution box in cushioning material. Secure cushioning material in place with tape.
3. Wrap the temper electrical distribution box in barrier material. Secure in place with tape.
4. Record serial number on outside of wrapped distribution box.
5. Wrap the connectors on each end of the cables in two layers of cushioning material and secure in place with tape.
6. Wrap each connector end in barrier material. Secure in place with tape.
7. Neatly coil each assembly and secure with twine or cable ties.

Locate four TEMPER convenience outlet assemblies, 3-drop. Wrap each convenience outlet in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.

Locate one each kitchen power distribution box, and record serial number. Wrap kitchen power distribution box in two layer of cushioning material and secure in place with tape.

Place the distribution box inside a fiberboard container with outer dimensions of 13½-inch long x 10¾-inch wide x 8½-inch high. Close the container with tape.

Locate one technical manual, TM 10-8340-224-13 and one technical manual, TM-10-8340-224-23P. Place the technical manuals in a bag made of barrier material and secure with tape.

Locate two fire extinguishers. Wrap each fire extinguisher in cushioning material and secure in place with tape. Place wrapped fire extinguisher inside manufacturer’s original box, if available, or a close fitting fiberboard container. Close with tape.

Obtain six each foot lockers from the billeting subsystem and pack as follows:

1. Locate two each footlocker. Place one each TEMPER electrical distribution box and two TEMPER convenience outlets, 3-drop, as previously prepared inside each footlocker.
2. Locate one each footlocker. Place one kitchen power distribution box as previously prepared into the footlocker.
3. Locate one each footlocker. Place the previously prepared technical manuals into the footlocker.

4. Locate two each footlockers. Secure the lids, including the footlockers prepared in 1 through 3, above and place each locker inside original shipping box, if available. Other fiberboard boxes with exterior dimensions not to exceed 24-inch long x 21-inch wide x 13-inch high may be used. Secure boxes with tape. Stack the lockers in a central location.

Locate six each 60-A/100-foot power cables, as previously prepared and pack as follows:

1. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material. Secure in place with tape. Ensure each cable coil diameter is not greater than 30-inch.
2. Place each of the coiled cable assemblies into the manufacturer's original box, if available, or a fiberboard container with the outer dimensions of 32½-inch long x 32½-inch wide x 9- inch high. Secure boxes with tape.

Locate three Electrical Feeder System, PDISE M-100, as previously prepared, and pack as follows:

1. Ensure that all connector covers on PDISE-M100s are installed and secured.
2. Wrap each PDISE with cushion material and secure with tape.
3. Wrap each PDISE with barrier material and secure with tape.
4. Place wrapped PDISE into original shipping, or appropriate replacement fiberboard container.
5. Place one TM 9-6150-226-13 into each container with PDISE and close the container with tape.
6. Locate six 100A/50-foot service cables and three 100A/4-foot pigtail assemblies, as previously prepared.
7. Wrap connectors of cable and pigtail assemblies with cushioning material and secure with tape. Wrap connectors with barrier material and secure with tape.
8. Coil each cable and pigtail assembly into a uniform coil with a diameter no greater than 26- inches.
9. Locate 24 cable carrying straps and secure each 50-foot cable coil with four straps.
10. Preposition two of the six 100-A/50-foot service cables with carrying straps and one 100A/4-foot pigtail assembly for packing in TRICON 10G.

Locate one sledge hammer and one wooden mallet. Wrap sledge hammer head with a minimum of two wraps of cushioning material and secure with tape. Place both the sledge hammer and the mallet inside a fiberboard container with outer dimensions not to exceed 40½-inch long X 10-inch wide x 8-inch high. Fill voids within container using cushioning material to prevent contents from moving.

Locate two floormats. Tightly roll each 32-foot floormat individually, and secure roll in two places with tape.

**Packing Procedures for TRICON Type 10F**

The following packing materials and other items are required to pack TRICON 10F:

**Table 27. TRICON Type 10F Packing Materials.**

Item	Qty
Pad, Energy Dissipating, 3-in Thick (Honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inch x 6-inch x 75- <sup>3</sup> / <sub>4</sub> -Inch	4
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required

**Table 27. TRICON Type 10F Packing Materials - Continued.**

Item	Qty
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Corrugated Fiberboard Stock, ASTM-D4727	As required
Shelf, Shipping and Storage NSN 8145-01-503-4404	4
Shoring Beam, NSN 9540-01-491-3804	8
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required

Use the following procedures to pack equipment into TRICON Type 10F:

1. Locate TRICON with "FOOD SERVICE TENT KIT, DINING, PART A; CO. TYPE 10F..." stenciled on the left door (this container should be staged in the dining tent area).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess as required.
4. Locate tent bundles one through six. Place bundles into the TRICON one at a time, forming two layers in the back half, and the left front of the container. Make sure that the bundles do not overhang out the front of the TRICON.
5. Locate two each floor mats previously prepared. Place one floor mat in each corner, along the side wall, on top of the tent fabric bundles.
6. Locate three each service cable assemblies, 100-A/50-foot and one each pigtail cable 100A/4-foot previously prepared. Position the cables and pigtail on the TRICON floor in the rear left corner as on top of the tent fabric bundles, as shown. Place fiberboard between the cables and the TRICON walls.
7. Locate the sledge hammer/mallet box previously prepared. Place the box in rear left corner next to the cable assemblies and floor mat, on top of the tent bundles.
8. Locate two tent pin containers with 25 each, 24-inch wood tent pins. Place the containers against the rear wall of the TRICON next to cable assemblies, on top of the tent bundles.
9. Locate one TEMPER end section frame and seven TEMPER frame, window sections. Proceed with caution as you place the frames in the container as follows:
  - a. Place the end section frame and one window section frame side by side on the tent fabric bundles, running from the right rear corner to the left front corner.
  - b. Place the remaining window section frames on top of the first two frames.
  - c. Make sure that the frame sections do not interfere with the 2-inch x 6-inch boards that will go across the front of the TRICON when packing is complete or the closing of the TRICON door, and that the stack of frames is flat and stable.
10. Locate one each TEMPER distribution box stand. Place the stand on top of the tent frame bundles.
11. Locate one each service cable assembly, 100-A/50-foot and one each pigtail cable 100-A/4-foot. Position the cable and pigtail on the TRICON floor in the front right quadrant on top of the tent fabric bundles, as shown. Place fiberboard between the cables and the TRICON walls.
12. Locate two each boxes of power cable assembly 60-A/100-foot. Stack in front right TRICON corner.

13. Locate one each electrical feeder center, PDISE-M100. Stack on top of the cable assemblies, in the front right corner.
14. Locate four each tent pin boxes, containing 30 each, 18-inch steel tent pins per box. Place on the floor of the container along the front edge. Stack two boxes on the right side of container as required.
15. Locate two each tent pin containers with 30 each, 12-inch steel tent pins. Place the containers in the front right quadrant, next to the cable assemblies.
16. Use honeycomb filler material, as necessary to create a tight pack. Install two, 2-inch x 6-inch x 75- $\frac{3}{4}$ -inch lumber braces across the front of the TRICON to support and secure the containers and boxes, as shown.
17. Locate four each shoring beams and two each shipping and storage shelf. Install the shoring beams on the marked locations (top and bottom) on the vertical uprights so that the bottom of the beam is approximately 34 inches above the metal floor. Install the shelf assemblies on top of shoring beams.
18. Locate six each footlockers with subcomponents as packed previously. Place footlockers on shelf, sideways, to the rear of the TRICON, as shown. Place the footlocker with fire extinguishers in front.
19. Locate two each electrical feeder center, PDISE M100. Place the cable assemblies, in the front of the footlockers, as shown.
20. Locate one each box containing power cable assembly 60-A/100-foot, two (2) cables. Stack power cable assembly box on shelf, in the front right corner of the TRICON.
21. Use honeycomb filler material, as necessary to create a tight pack. Install a 2-inch x 6-inch x 75 $\frac{3}{4}$ -inch lumber brace across the front of this layer to secure the containers and boxes, as shown.
22. Locate four each shoring beams and two each shipping and storage shelf. Install the shoring beams on the marked locations (top and bottom) on the vertical uprights so that the bottom of the beam is approximately 30-inch above the middle shelf. Install the shelf assemblies on top of the shoring beams.
23. Locate two each vestibule frame kits, each consisting of three TEMPER vestibule frame assemblies. Place the kits on top shelf, on the right side.
24. Use honeycomb filler material, as necessary to create a tight pack. Install one 2-inch x 6-inch x 75- $\frac{3}{4}$ -inch lumber braces across the front of this layer to support and secure the containers and boxes, as shown.
25. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
26. Ensure that three each TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.

27. Close and secure TRICON door.

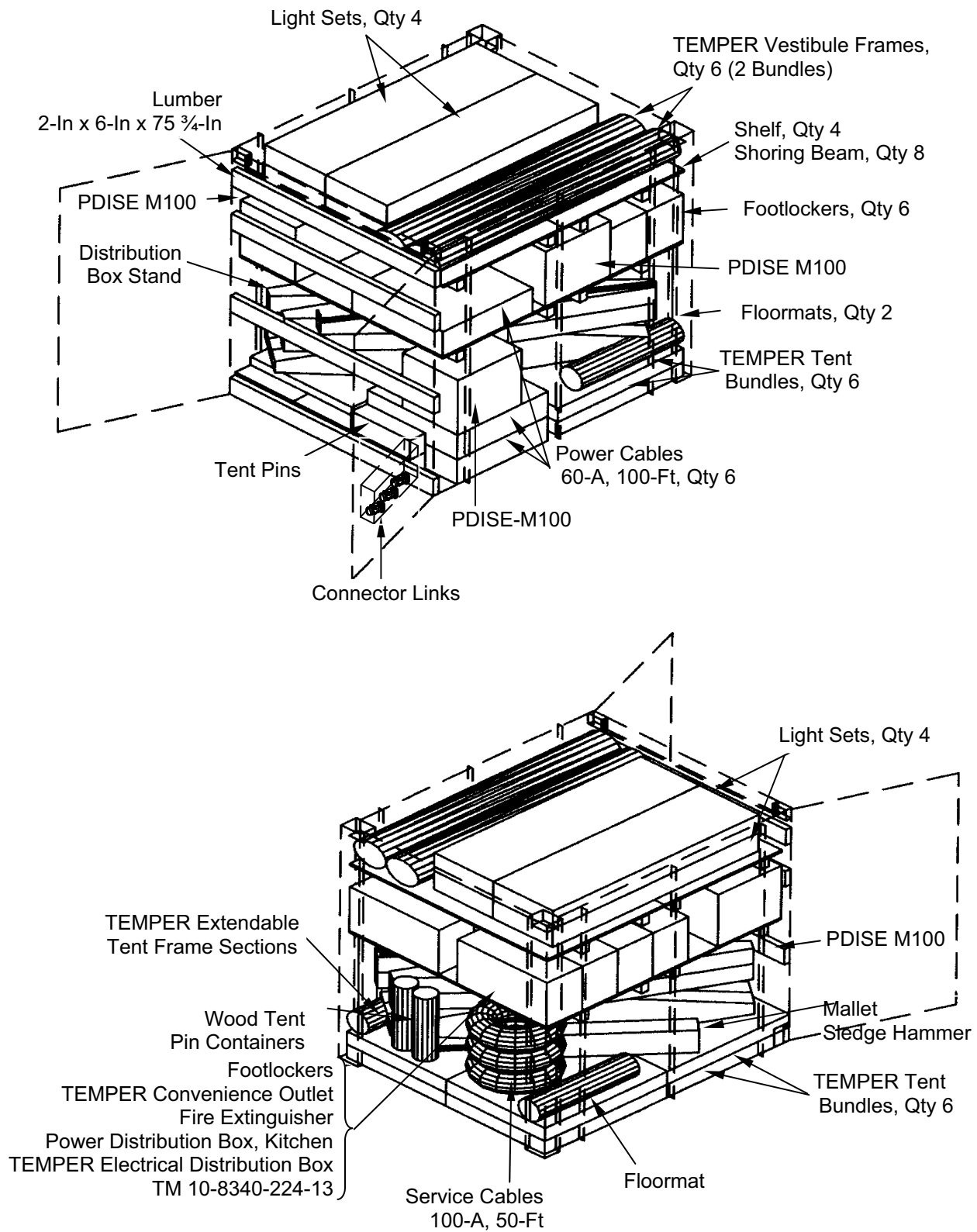


Fig 5. Field Packing Tent Kit, Dining, Part A TRICON Type 10F.

**FIELD PACKING TENT KIT, DINING, PART B TRICON TYPE 10G**

This paragraph provides information to pack equipment into TRICON 10G. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into designated container. The following procedures are for field packing one type 10G TRICON. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 10G refer to Table 6, WP 0031 00.  
 For information and illustrations of TEMPER components refer to TM 10-8340-224-13.  
 For information and illustrations of other food service equipment refer to WP 0093 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

The 20-foot x 96-foot dining facility TEMPER Type XVIII, is being shipped in TRICON 10F and 10G. Prepare TEMPER and related components to be shipped in TRICON 10G as described in this WP. During disassembly of the TEMPER, set aside the following components for shipment in TRICON 10F:

**Table 28. TEMPER Components to be Shipped in TRICON 10F.**

<b>Item</b>	<b>Quantity</b>
Pin, Tent, Wood, 24-inch	50
Frame, End Section, TEMPER w/Cover	1
Frame, Window Section, TEMPER (W/Cover)	7
Cover, Tent, TEMPER	6
Frame Assembly, Vestibule, TEMPER	6
End Section, TEMPER	2
Liner, End Section, Temperate, TEMPER	2
Fly, Tent, 16-foot, TEMPER	6
Window Section, Temperate, TEMPER	7
Liner, Intermediate, Temperate, TEMPER	4
Floor, 8-ft, Single Ply, TEMPER	6
Pin, Tent, Steel, 12-inch	120
Container, Tent Pin, TEMPER	2
Vestibule w/Door, TEMPER	2
Floor, Vestibule, Single Ply, TEMPER	2
Container, Vestibule	2

Components of Electrical Feeder System, PDISE M100 to be set aside for shipment in TRICON 10F:

**Table 29. PDISE Components to be Shipped in TRICON 10F.**

<b>Item</b>	<b>Quantity</b>
Electrical Feeder Center, 100A	1
Technical Manual, PDISE TM 9-6150-226-13	2

Prepare components for shipment in TRICON 10G as described below.

To prepare Tent Bundle #7, locate the following items:

**Table 30. Tent Bundle #7.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	1
Line, Tent	4
Slip, Tent Line	4
Intermediate Liner, Temperate TEMPER	2
Tent Floor, 8-foot, Single Ply, TEMPER	2
Plenum, End Wall	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent Bundle 7".

To prepare Tent Bundle #8, locate the following items:

**Table 31. Tent Bundle #8.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	1
Line, Tent	4
Slip, Tent Line	4
Intermediate Liner, Temperate	2
Tent Floor, 8-foot, Single Ply, TEMPER	2
Plenum, Extendable 16-foot, TEMPER	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., "Tent Bundle 8".



To prepare Tent Bundle #9, locate the following items:

**Table 32. Tent Bundle #9.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Window Section, D/T	1
Line, Tent	4
Slip, Tent Line	4
Intermediate Liner, Temperate	2
Tent Floor, 8-foot, Single Ply, TEMPER	2
Plenum, Entrance 16-foot, TEMPER	1

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., "Tent Bundle 9".

To prepare Tent Bundle #10, locate the following items:

**Table 33. Tent Bundle #10.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Door Section, Temperate, TEMPER	2
Line, Tent	16
Slip, Tent Line	16
Plenum, Extendable 16-foot, TEMPER	1

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., "Tent Bundle 10".

Locate 2 Window Section Frames, each consisting of the following components:

**Table 34. Window Section Frame Components.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender Assembly	2
Transport/Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inch long x 17- inch wide x 8-inch tall.
7. Container identification stencil must be visible, i.e., “Window Section Frame Assembly”.
8. Repeat steps 1 through 7, until both window section frame assemblies have been packaged.

Locate 2 Door Section Frames, each consisting of the following components:

**Table 35. Door Section Frame Components.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	3
Purlin Assembly, Door Sill	2
Eave Extender Assembly	2
Ridge Extender Assembly	1
Transport/Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and header on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½--inch long x 17- inch wide x 8-inch tall.
7. Container identification stencil must be visible, i.e., “Door Section Frame Assembly”.
8. Repeat steps 1 through 7, until both door section frame assemblies have been packaged.

Locate two each double bump-through doors (part of Type XVIII TEMPER dining tent being packed in TRICON 10F). Place each door into original shipping box, if available, or a close fitting fiberboard container with outside dimensions of 83-inch x 67-inches x 3-inch. Close the container with tape.

Locate two each fabric tent pin containers and 50 each, 24-inch wood tent pins. Place 25 pins inside each container. Secure container with tie provided.

Locate two each fabric tent pin containers and 80 each, 12-inch wood tent pins. Place 40 pins inside each container. Secure container with tie provided.

Retrieve, or fabricate, if no longer available, three, each wooden tent pin boxes. Locate 80 each, 18-inch steel tent pins. Place 30 steel pins inside one box, and 25 inside the other two boxes. Secure container lid with nails and steel strapping.

Locate two fluorescent light sets. Place each light set into an original manufacturer's box, if available, or a fiberboard box with exterior dimensions not to exceed 75½-inch long x 22-inch wide x 7-inch high. Close boxes with tape.

Locate one TEMPER distribution box stand and wrap both ends with cushioning material. Secure with tape. Wrap fiberboard around the center mounting plate and secure it in place with tape.

Locate eight each 60A/100-foot power cables, as previously prepared and pack as follows:

1. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material. Secure in place with tape. Ensure each cable coil diameter is not greater than 30-inches.
2. Place each of the coiled cable assemblies into the manufacturer's original box, if available, or a fiberboard container with the outer dimensions of 32½-inch long x 32½-inch wide x 9- inch high. Secure boxes with tape.

Locate one Electrical Feeder System PDISE M-100, as previously prepared, and pack as follows:

1. Ensure that all connector covers on PDISE-M100s are installed and secured.
2. Wrap PDISE with cushion material and secure with tape.
3. Wrap PDISE with barrier material and secure with tape.
4. Place wrapped PDISE into original shipping, or appropriate replacement fiberboard container.
5. Place TM 9-6150-226-13 into container with PDISE and close the container with tape.
6. Locate two 100A/50-foot service cables and one 100A/4-foot pigtail assembly, as previously prepared.
7. Wrap connectors of cable and pigtail assemblies with cushioning material and secure with tape. Wrap connectors with barrier material and secure with tape.
8. Coil each cable and pigtail assembly into a uniform coil with a diameter no greater than 26- inches.
9. Locate eight cable carrying straps and secure each 50-foot cable coil with four straps.
10. Preposition the box containing the PDISE M100 and TM 9-6150-226-13 for packing in TRICON 10F.

Locate one sledge hammer and one wooden mallet. Wrap sledge hammer head with a minimum of two wraps of cushioning material and secure with tape. Place both the sledge hammer and the mallet inside a fiberboard container with outer dimensions not to exceed 40½-inch long X 10-inch wide x 8-inch high. Fill voids within container using cushioning material to prevent contents from moving.

Locate two floormats. Tightly roll each 32-foot floormat individually, and secure roll in two places with tape.

Locate one technical manual, TM 10-7310-282-10 and place it in a bag made of barrier material. Secure with tape.

Obtain four each foot lockers from the billeting subsystem and pack as follows:

1. Locate one each footlocker. Place TM 10-7310-282-10, as previously prepared inside the footlocker.
2. Locate three each footlockers. Secure the lids, including the footlocker prepared in 1, above and place each locker inside original shipping box, if available. Other fiberboard boxes with exterior dimensions not to exceed 24-inch long x 21-Inch wide x 13-inch high may be used. Secure boxes with tape. Stack the lockers in a central location.

Locate one each coffee urn and prepare as follows:

1. Retrieve from TRICON 10G, or fabricate if no longer available, a close fitting wooden crate. The crate shall have outside dimensions of approximately 33½-inch x 26<sup>3</sup>/<sub>8</sub>-inch x 34¾-inch.
2. Place the coffee urn, with its manual, into a close fitting fiberboard container. Secure the box with tape. Place the fiberboard container into a bag made of barrier material. Secure with tape. Pack the bagged coffee urn into the crate and secure with cushioning material and filler.

Locate 11 each, 6-foot benches. Pack each bench in the original shipping container, or a replacement fiberboard container with exterior dimensions not to exceed 73-inch long x 14 ½-inch wide x 3 ½-inch high. Seal box with tape.

Locate four each double bump-through doors (part of Type XIX TEMPER being packed in TRICON 10K). Place each door into original shipping box, if available, or a close fitting fiberboard container with outside dimensions of 83-inch x 67-inch x 3-inch. Close the container with tape.

Locate three each double bump through doors (additional items used in dining facility). Place each door into original shipping box, if available, or a close fitting fiberboard container with outside dimensions of 83-inch x 67-inch x 3-inch.

**Packing Procedures for TRICON Type 10G**

The following packing materials and other items are required to pack TRICON 10G:

**Table 36. TRICON Type 10G Packing Materials.**

Item	Qty
Pad, Energy Dissipating, 3-Inch Thick (Honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inch x 6-inch x 75- <sup>3</sup> / <sub>4</sub> -inch	5
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Corrugated Fiberboard Stock, ASTM-D4727	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam, NSN 9540-01-491-3804	4

Use the following procedures to pack equipment into TRICON Type 10G:

1. Locate TRICON with “FOOD SERVICE TENT KIT, DINING, PART B; CO. TYPE 10G...” stenciled on the left door (this container should be staged in the dining tent area).

2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place a layer of fiberboard on the floor of the TRICON. Trim excess material as required.
4. Locate tent bundles 7 through 10. Place bundles into the TRICON one at a time. Place two bundles in the rear left corner, one bundle in the rear right corner, and one bundle in the left front of the container. Make sure that the bundles do not extend out the front of the TRICON, interfering with closing of the doors.
5. Locate three footlockers and place them on top of the tent bundles against the left sidewall and left rear wall of the TRICON, as shown.
6. Locate two each 100A/50-foot cable assemblies and one each 100A/4-foot pigtail. Position these items in the left rear corner of the TRICON, as shown.
7. Locate two each light sets. Place them on top of the footlockers and cable assemblies on the left side of the TRICON.
8. Locate two each TEMPER window section frame assemblies and two each door section frame assemblies.
9. Place two window section frame side by side on the tent fabric bundles, running from the right rear corner to the left front corner. Place the two door section frames on top of the first two frames.
10. Make sure the frame sections do not interfere with the 2-inch x 6-inch boards that will be placed across the front of the TRICON when packing is complete, or the closing of the TRICON doors, and that the frame stack is flat and stable.
11. Locate the sledge hammer/mallet box previously prepared. Place the box on top of the cable assemblies, next to the tent frame bundles.
12. Locate one TEMPER distribution box stand and place it on top of the tent frame bundles.
13. Locate three tent pin boxes containing 80 steel tent pins (18-inch). Place the boxes on TRICON floor next to tent the fabric bundle on the right side as shown.
14. Locate two each fabric tent pin containers with 50 tent pins (24-inch) and 3 containers with 80 tent pins (12-inch). Place the containers on the right side of the TRICON, in front of the tent frame bundles, as shown.
15. Locate four rolled floor mats. Place them between the tent frame bundles and the wood stake containers, as shown.
16. Locate one footlocker. Place it on top of the tent pin boxes, against the floor mat and tent pins in fabric containers, as shown.
17. Locate one coffee urn, 6-Gallon, as previously crated. Place the box on the container floor, in front of tent pin boxes and footlocker. Make sure that it will not interfere with the 2-inch x 6-inch cross boards.
18. Use filler as required to provide a secure pack. Place three, 2-inch x 6-inch x 75 $\frac{3}{4}$ -inch boards in front of this layer.
19. Locate four shoring beams and two shipping and storage shelves. Install the shoring beams as marked on the vertical uprights. Install the two shelves on top of the shoring beams.
20. Locate four boxes each containing two 60A/100-foot power cable assemblies. Place the boxes to the rear of the shelf. Use dunnage to create a tight pack.

21. Locate three, 6-foot benches. Stack the benches in front of the boxes containing the power cable assemblies, so that they form a level plane with the boxes, as shown.
22. Locate nine double bump through doors previously packed. Stack them on top of the boxes containing the power cable assemblies and the benches. Locate against the left side of the container.
23. Locate eight, 6-foot benches. Place two on side, next to the double bump through doors. Place five on top of the double bump through doors. Place one on side across the front of the container on the shelf.
24. Place two, 2-inch x 6-inch x 75<sup>3</sup>/<sub>4</sub>-inch boards in front of items on this layer to secure the load.
25. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
26. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.

27. Close and secure TRICON doors.

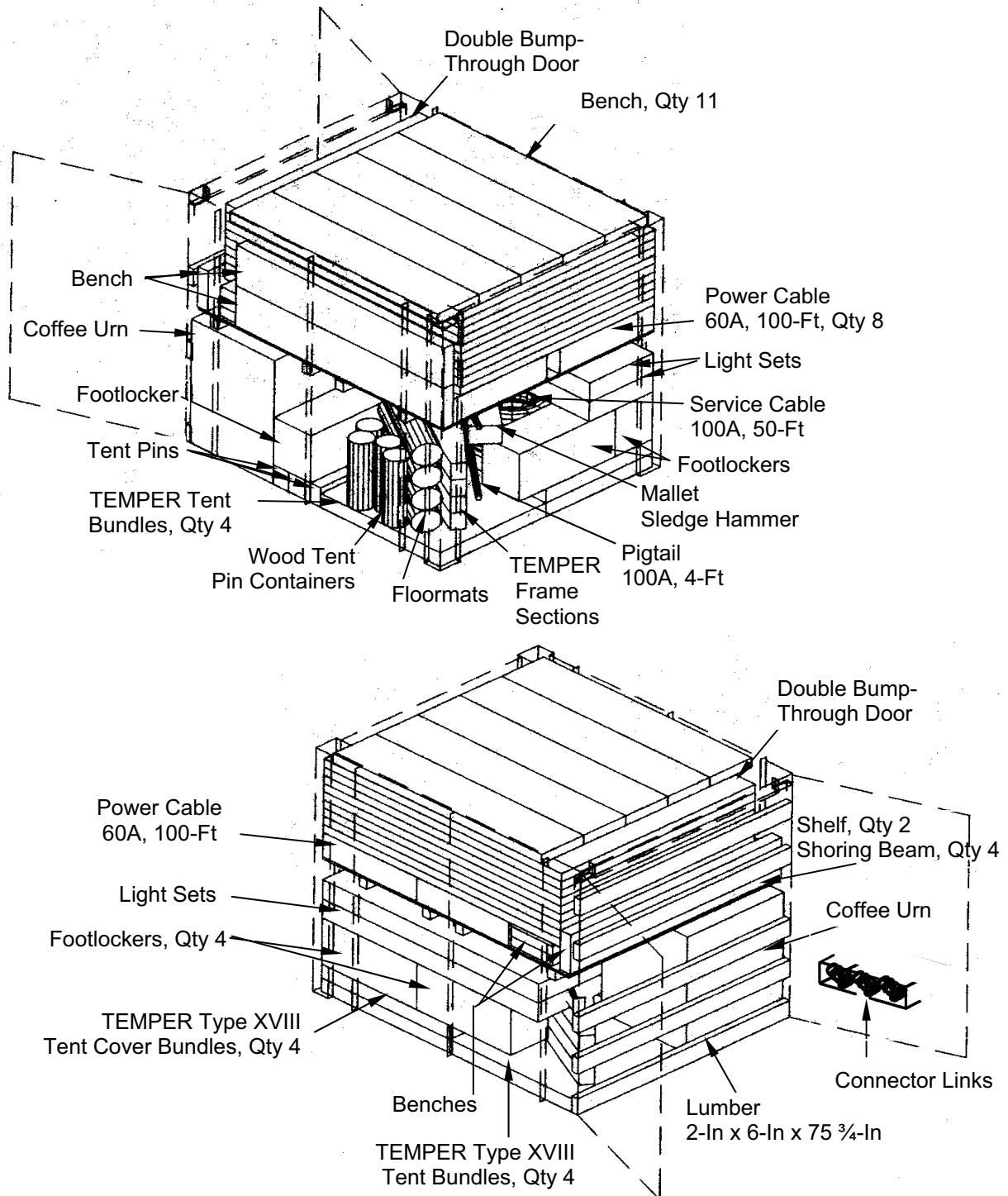


Fig 6. Field Packing Tent Kit, Dining, Part B TRICON Type 10G.

**FIELD PACKING REFRIGERATION KIT, PART B, TRICON TYPE 10I**

This paragraph provides information to pack equipment into TRICON 10I. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one type 10I TRICON. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 10I refer to Table 7, WP 0031 00.  
For information and illustrations of refrigeration equipment refer to TM 5-4110-242-14.  
For information and illustrations of other food service equipment refer to WP 0093 00.  
For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
Equipment must be clean, dry, and debris-free before packing.

Prepare equipment to be packed into TRICON 10I as follows:

1. Locate two 10,000 BTUH, panel type mechanical refrigeration units. Ensure units are clean, dry and:
  - a. Refrigeration system pump down procedure has been completed as described in TM 5-4110-242-14.
  - b. The compressor has been secured in the storage/shipping position as described in TM 5-4110-242-14.
2. Locate two technical manuals, TM 5-4110-242-14 and TM 504110-242-24P. Prepare as follows:
  - a. Place the technical manuals in a single bag made of barrier material and secured with tape.
  - b. Place one copy of each technical manual inside each refrigeration unit, together with four (80-unit) bags of desiccant to provide moisture protection for each unit.
  - c. Ensure that all latches, doors, and hardware are closed and/or secured.
  - d. Retrieve the wooden pallet from TRICON 10I, or construct a new one as specified in drawing 9-1-0751. (Refer to WP 0003 00 for dimensions.)
  - e. Ensure four ½-inch eye lag bolts are installed on the pallet approximately 31-inches and 59-inches from the front edge of the skid, on each side, at 7¼-inch from edge.

**NOTE**

If the formerly sealed bag is no longer available or unserviceable, proceed to step g.

- f. Retrieve the retained bag from TRICON 10I. Open the bag and place it on the pallet.
- g. Position one refrigeration unit along the centerline of the platform, left/right, and at the centerline, front to back. The two units will be placed on the skid with the front sides facing each other.
- h. Place three layers of fiberboard material between the refrigeration units to prevent damage during assembly and shipping.
- i. Form the bag around the refrigeration units if available, otherwise envelope the units with cushioning material and then with barrier material. Cushioning and barrier material can be held in place by taping.



- j. Nail a 2-inch x 6-inch x 18-inch piece of lumber in front and back of the units to prevent shifting during transport.
  - k. Locate two special purpose web tiedown. Secure the units to the skid by hooking the straps to the eye bolts. Place straps over the top of the units, and secure. Place fiberboard corner protectors on the top edges of the refrigeration units where the straps contact the barrier material. Fold loose ends of the straps and secure with nylon cable zip ties.
3. Locate two each 60A Class L cables assemblies. Wrap the ends of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material.
  4. Coil each cable assembly and secure with twine or cable ties. Place two cable assemblies into original shipping box, or a fiberboard container.

**Packing Procedures for TRICON Type 10I**

The following packing materials and other items are required to pack TRICON 10I:

**Table 37. TRICON Type 10I Packing Materials.**

Item	Qty
Pad, Energy Dissipating, 3-inch Thick (Honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inch x 6-inch x 75- <sup>3</sup> / <sub>4</sub> -Inch	1
Fiberboard Sheet 4 X 8-foot	As Required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Special Purpose Web Tiedown	5
Pallet, 9-1-0751 (81337) w/ 1/2-inch Eye Lag Bolts	1
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	1

Use the following procedures to pack equipment into TRICON Type 10I:

1. Locate TRICON with “REFRIGERATION KIT, PART B; CO. TYPE 10I...” stenciled on the left door (this container should be staged in the food preparation area).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Locate the refrigeration unit pack together with the box containing the Class L, 60A cables assemblies and one special purpose web, tiedown.
4. Place the cable assembly box on top of the palletized refrigeration units. Secure with tiedown strap to prevent movement. Fold loose ends of the straps and secure with nylon cable zip ties.
5. Locate two each special purpose web, tiedown. Attach the non-ratcheted end of each strap to a corner tiedown loop, approximately 24-inches above the floor. Place the ends of the straps out of the way to facilitate loading of the TRICON.
6. Place palletized refrigeration units inside the TRICON.
7. Locate the three wall panels, and one evaporator panel, part of the refrigerator, prefabricated, 600 cubic foot, packed in container 10A.
8. Place two panels on each side of the refrigeration units. Place two layers of fiberboard between the panels and the skid surface and the panels and the refrigeration units.

9. Cross the tiedown straps over the pallet and secure to the corresponding front loops on the TRICON as shown. Fold loose ends of the straps and secure with nylon cable zip ties.
10. Locate a 2-inch x 6-inch x 75<sup>3</sup>/<sub>4</sub>-inch piece of plywood and place it on the TRICON floor across the front of the skid.
11. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
12. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.

13. Close and secure TRICON doors.

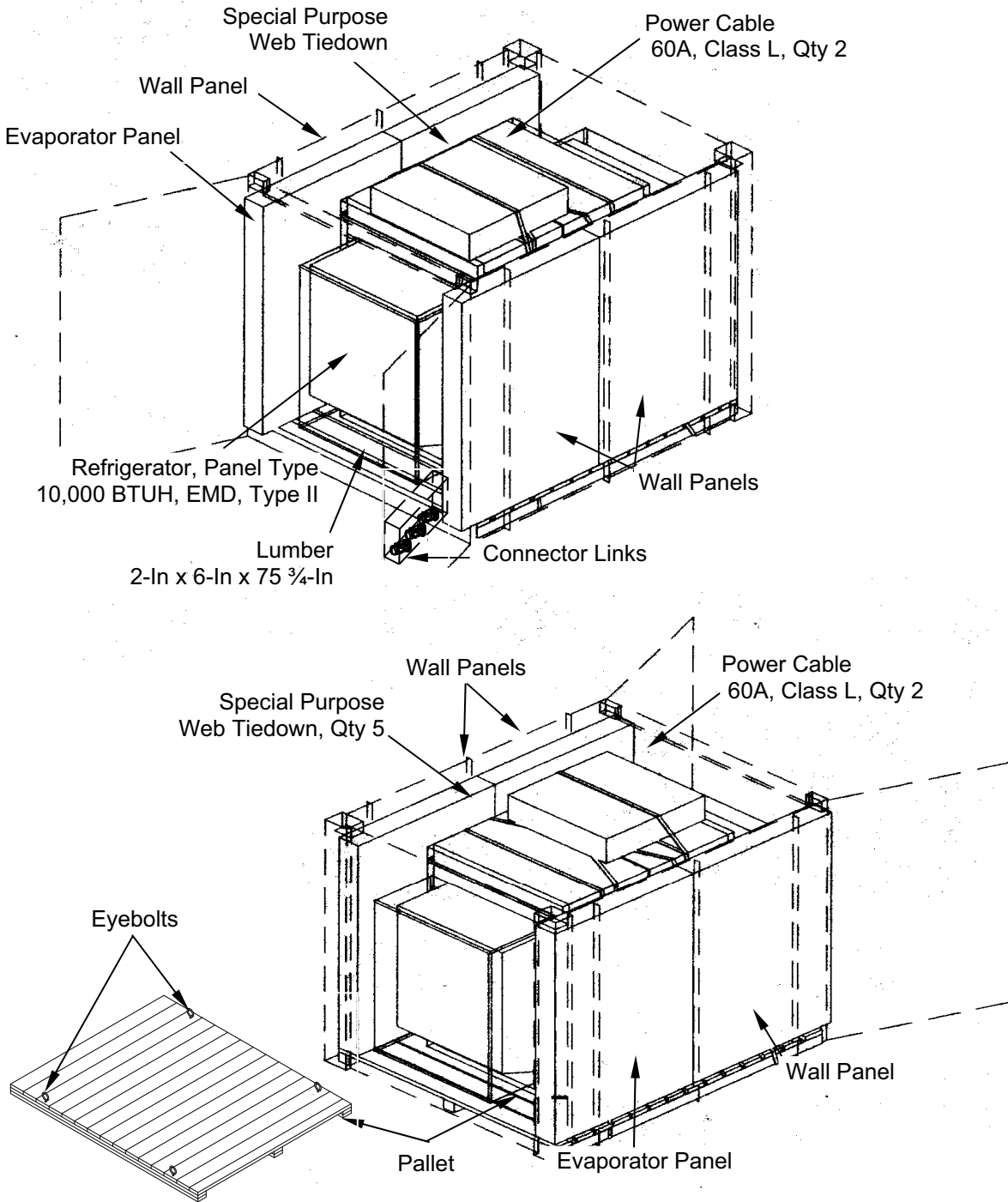


Fig 7. Field Packing Refrigeration Kit, Part B, TRICON Type 10I.

**FIELD PACKING FOOD SERVICE WASTE WATER KIT TRICON TYPE 10J**

This paragraph provides information to pack equipment into TRICON 10J. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into designated container. The following procedures are for field packing one type 10J TRICON. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 10J refer to Table 8, WP 0031 00.  
For information and illustrations of Sewage Ejection Pump refer to TM 10-4630-206-12&P.  
For information and illustrations of 600-cubic-foot refrigerators refer to TM 9-4110-241-13.  
For information and illustrations of waste water system components refer to WP 0092 00.  
For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
Equipment must be clean, dry, and debris-free before packing.

**NOTE**

Some of the waste water components originally shipped in TRICON 10J, such as the grease traps will not be return-shipped. This may also include some of the waste water couplings, depending on their condition at the time. Fill the spaces in the TRICON that these items normally take up with dunnage, as necessary, to create a tight pack.

Prepare equipment to be packed into TRICON 10J as follows:

1. Locate six each, 6-foot benches. Pack each bench in the original shipping container, or a replacement fiberboard container with exterior dimensions not to exceed 73-inch long x 14½-inch wide x 3½-inch high. Seal box with tape.
2. Locate five each folding tables. Place tables inside original shipping box, if available, or a new fiberboard box with outer dimensions of 75-inch long x 32 ½-inch wide x 9-inch high.
3. Locate two each kitchen fan assemblies, 30-inch. Wrap the connector end of the power cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Coil each cable assembly and secure with twine. Place each fan inside the original shipping container, or a close fitting fiberboard container. Secure with tape.
4. Locate one each double bump through door. Place the door into original shipping box, if available, or a close fitting fiberboard container with outside dimensions of 83-inch x 67-inch x 3-inch.
5. Locate two each coupling half, QDISC, Cam-lock, cap, Type IX, 2-inch, aluminum and one each reducer, QDISC, Cam-lock, 2-inch FC x 1½-inch MC, aluminum. These parts should have previously been steam cleaned and disinfected. Install dust caps and plugs as required. Place a minimum of two wraps cushioning material around each item. Secure cushioning material in place with tape. Place each wrapped item in a close fitting bag of barrier material. Secure with tape.
6. Locate one each power cable assembly Tee, 20A, Wrap the connectors on each end of the cable in two layer of cushioning material. Secure with tape. Wrap each connector end in barrier material and secure in place with tape. Coil each cable assembly and secure with twine or nylon cable zip ties.
7. Locate one each Class L to commercial, 20A power cable, Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material. Secure in place with tape. Coil each assembly and secure with twine or nylon cable zip ties.

8. Retrieve the original, or fabricate a new fiberboard container and place the following items prepared under 6 through 8, above, inside. Close container with tape.

**Table 38. Items Prepared under Paragraph 6 – 8 Above**

Item	Quantity
Coupling Half, QDISC, Cam-Lock, Cap, Type IX, 2-inch, Aluminum	2
Reducer, QDISC, Cam-Lock, 2-inch FC X 1 ½-inch MC, Aluminum	1
Power Cable Assembly, Tee, 20A	1
Power Cable, Class L To Commercial, 20A	1

**Packing Procedures for TRICON Type 10J**

The following packing materials and other items are required to pack TRICON 10J:

**Table 39. TRICON Type 10J Packing Materials.**

Item	Qty
Pad, Energy Dissipating, 3-inch Thick (Honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inch x 6-inch x 75- <sup>3</sup> / <sub>4</sub> -Inch	1
Fiberboard Sheet 4 X 8-foot	As Required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Special Purpose Web Tiedown	5
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	1

Use the following procedures to pack equipment into TRICON Type 10J:

1. Locate TRICON with “FOOD SERVICE WASTE WATER KIT; CO. TYPE 10J...” stenciled on the left door (this container should be staged near the food sanitation area).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate two each special purpose web tiedown. Attach the non-ratcheted end of each strap to a corner tiedown loop, approximately 24-inches above the floor. Place the ends of the straps out of the way to facilitate loading of the TRICON.
5. Locate two each boxes containing the kitchen fan assemblies. Place one fan each along the left and right wall of the TRICON, as shown.
6. Place appropriate dunnage to take up the space of the two grease traps between the two fan assemblies as shown.
7. Locate the fiberboard container with plumbing component and power cords. Place on top of one of the grease traps or dunnage. Fill voids with honeycomb material to create a tight pack. Secure these items with the special purpose web tiedown strap. Fold excess strap and secure with nylon cable tie.
8. Locate three each special purpose web tiedown straps. Attach the non-ratcheted end of two tiedown straps to the tiedown loops next to the fan assembly on the right side of the TRICON, and the front corner, right side. Attach the non-ratcheted end of one tiedown strap to the vertical upright in front of the fan assembly on the right hand side. Place approximately 24-inches above the floor. Place ends of the straps out of the way to facilitate loading of the container.

9. Locate the sewage ejection pump, waste water evacuation, previously prepared. Place sewage ejection pump in front of the grease traps or dunnage, and fan assembly on the right side of the container. Place fiberboard or honeycomb material between the sewage ejection pump and the grease traps or dunnage and fan assembly.
10. Locate one each 55-Gallon shipping and storage, steel, drum. Place the drum next to the sewage ejection pump. Place fiberboard or honeycomb material between the drum and the ejection pump.
11. Cross the two tiedown straps previously attached over the ejection pump and secure to the tiedown loops on the left side of the TRICON. Secure one tiedown strap around the 55-Gallon drum and the sewage ejection pump. Attach to the right front corner of the container, approximately 24-inches above the floor. Ensure that all the straps are properly tightened and are not twisted and/or caught up on any obstruction. Fold the loose ends of tiedown straps and secure with nylon cable zip ties.
12. As necessary, place honeycomb material to form a tight pack on this level of the container.
13. Locate four each shoring beams and two each shipping and storage shelves. Install the shoring beams on the marked locations on the vertical uprights. Install the two shelves on top of the brackets. Place one layer of fiberboard on the shelf. Trim excess fiberboard as required.
14. Locate the four each wall panels, part of the refrigerator, prefabricated, 600 cubic foot packed in TRICON 10A. Lay the wall panels flat on the shelf along the left side of the TRICON.
15. Locate five each folding tables, 6-foot, aluminum. Place them on side, on the shelf, next to the wall sections.
16. Locate four each benches. Place one bench between the TRICON wall panels and the tables. Use honeycomb material between the items to prevent movement during transportation. Place three benches flat on top of the wall panels.
17. Locate one each door, double bump through. Lay the door flat across the benches and the tables. Use dunnage to provide a level pack supporting the door.
18. Use honeycomb material to form a tight pack on this level. Place one 2-inch x 6-inch x 75 ¾-inch lumber cross brace on this level.
19. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert (s) as needed to fill voids between the packaged contents. These fillers and dunnage shall be installed to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
20. Ensure that three each TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.

21. Close and secure TRICON doors.

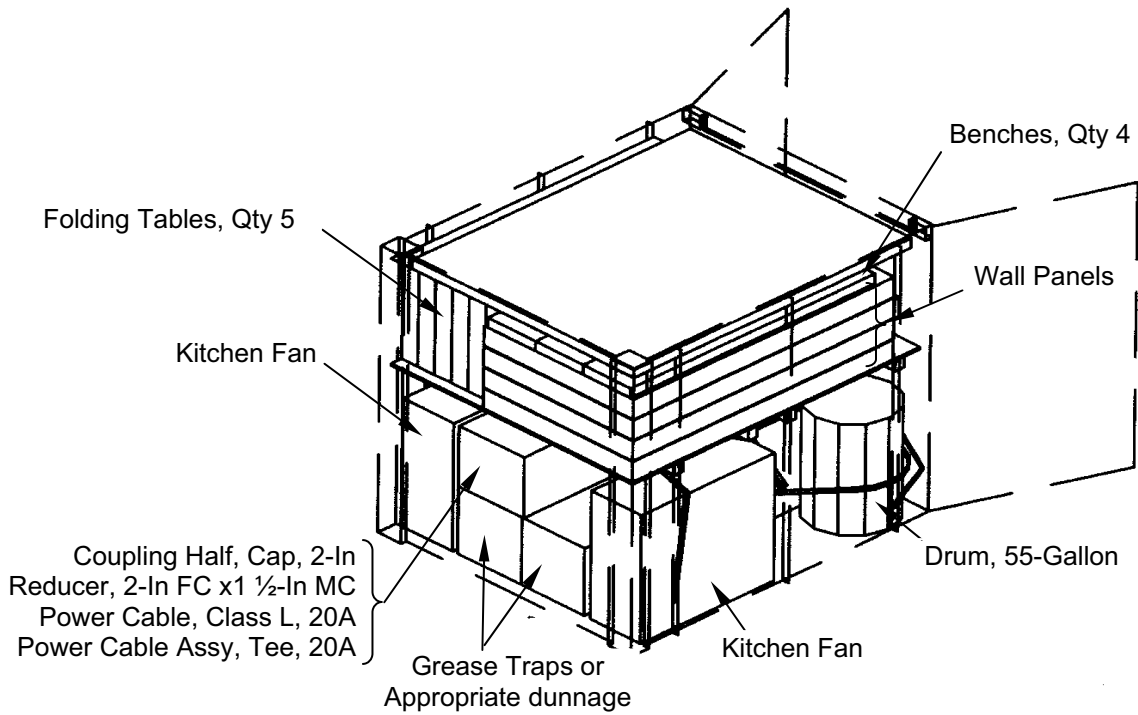
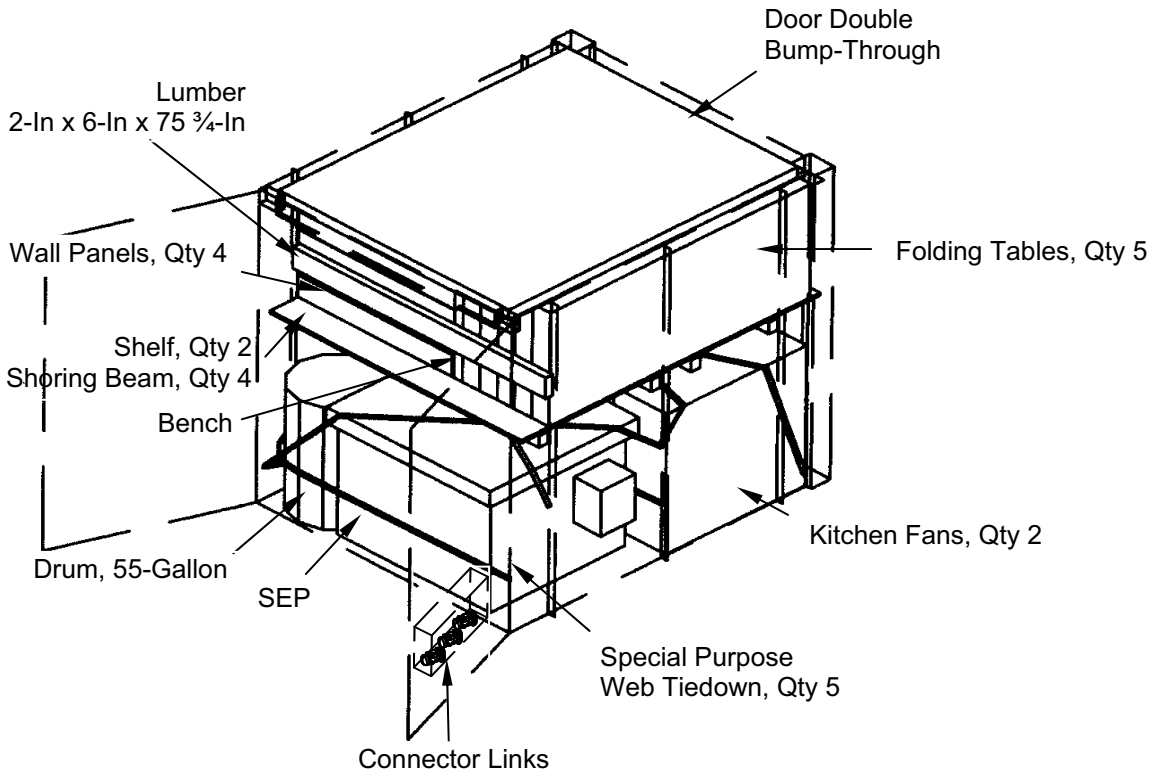


Fig 8. Field Packing Food Service Waste Water Kit TRICON Type 10J.

**FIELD PACKING FOOD SANITATION/PREPARATION TENT KIT TRICON TYPE 10K**

This paragraph provides information to pack equipment into TRICON 10K. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into designated container. The following procedures are for field packing one type 10K TRICON. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 10K refer to Table 9, WP 0031 00.  
 For information and illustrations of TEMPER components refer to TM 10-8340-224-13.  
 For information and illustrations of Food Sanitation Center components refer to TM 10-7360-211-13&P.  
 For information and illustrations of other food service equipment refer to WP 0093 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00 or Bulk Items List.  
 Equipment must be clean, dry, and debris-free before packing.

Prepare equipment to be packed into TRICON 10K as follows:

Locate the food sanitation/preparation tent, Type XIX TEMPER components previously disassembled.

To prepare Tent Bundle #1, locate the following items:

**Table 40. Tent Bundle #1.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, TEMPER	1
Line, Tent	4
Slip, Tent Line	4
Intermediate Liner, Temperate	1
Tent Fly, 16-foot, TEMPER	1
Line, Tent	6
Slip, Tent Line	2

Prepare two bundles in accordance to the following procedure:

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., "tent 1, bundle 1 of 4", and "tent 2, bundle 1 of 4".

To prepare Tent Bundle #2, locate the following items:

**Table 41. Tent Bundle #2.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T TEMPER	1
Line, Tent	4



**Table 41. Tent Bundle #2 – Continued.**

<b>Item</b>	<b>Quantity</b>
Slip, Tent Line	4
Door Section D/T TEMPER	1
Line, Tent	8
Slip, Tent Line	8
Fly, Tent 16-foot, TEMPER	1
Line, Tent	6
Slip, Tent Line	6
End Section, TEMPER	1
Line, Tent	2
Slip, Tent Line	2

Prepare two bundles in accordance to the following procedure:

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., “tent 1, bundle 2 of 4”, and “tent 2, bundle 2 of 4”.

To prepare Tent Bundle #3, locate the following items:

**Table 42. Tent Bundle #3.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner D/T TEMPER	1
Tent Floor, 8-foot, Single Ply	4
Plenum, End Wall TEMPER	1
Plenum, Extendable, 16-foot TEMPER	1
Vestibule Floor Single Ply TEMPER	1

Prepare two bundles in accordance to the following procedure:

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., “tent 1, bundle 3 of 4”, and “tent 2, bundle 3 of 4”.

To prepare Tent Bundle #4, locate the following items:

**Table 43. Tent Bundle #4.**

Item	Quantity
Window Section, D/T TEMPER	1
Line, Tent	4
Slip, Tent Line	4
End Section Liner D/T TEMPER	1
Vestibule w/Door, TEMPER	2
Line, Tent	8
Slip, Tent Line	8
Tent Floor, 8-foot, Single Ply	1

Prepare two bundles in accordance to the following procedure:

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., “tent 1, bundle 4 of 4”, and “tent 2, bundle 4 of 4”.

Locate two each end section frames, consisting of the following components:

**Table 44. End Section Frame Components.**

Item	Quantity
Arch Assembly	2
Header Assembly	2
Purlin Assembly	5
Eave Extender Assembly	4
Ridge Extender Assembly	2
Transport/Storage Cover	1

Prepare two end section frames in accordance to the following procedure:

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inch long x 17- inch wide x 8-inch tall.

7. Container identification stencil must be visible, i.e., “End Section Frame Assembly.” Locate two each window section frames, consisting of the following components:

**Table 45. Window Section Frame Components.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender Assembly	1
Transport/Storage Cover	1

Prepare two window section frames in accordance to the following procedure:

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch section in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch section.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98.5-inch long x 17- inch wide x 8-inch tall.
7. Container identification stencil must be visible, i.e., “Window Section Frame Assembly”.

Locate one door section frame, consisting of the following components:

**Table 46. Door Section Frame Components.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	3
Purlin Assembly, Door Sill	2
Eave Extender Assembly	2
Ridge Extender Assembly	1
Transport/Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch section in the center of the frame cover.
3. Position the purlins and one header on top of the arch section.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98.5-inch long x 17- inch wide x 8-inch tall.
7. Container identification stencil must be visible, i.e., “Door Section Frame Assembly”.

Locate three vestibule frame kits, each consisting of the following components:

**Table 47. Vestibule Frame Kits.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

4. Locate one each vestibule frame container.
5. Place three vestibule frame assemblies inside the frame container. Place cushioning material between metal parts that contact each other in the container. Secure container with tape.
6. Container identification stencil must be visible, i.e., "Vestibule Frame Assembly".

Retrieve or fabricate four each tent pin boxes and place 30 each, 18-inch steel tent pins inside each box. Tack each corner of the top with a nail and secure each box with steel strapping.

Locate four (4) fluorescent light sets. Place each light set into an original manufacturer's box, if available, or a fiberboard box with exterior dimensions not to exceed 75½-inch long x 22-inch wide x 7-inch high. Close boxes with tape.

Locate two TEMPER distribution box stands and wrap both ends with cushioning material. Secure with tape. Wrap fiberboard around the center mounting plate and secure it in place with tape.

Locate two TEMPER convenience outlet assemblies, 3-drop. Wrap each convenience outlet in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.

Locate two TEMPER Distribution Box Assemblies, each consisting of the following components:

**Table 48. TEMPER Distribution Box Assembly.**

Item	Quantity
TEMPER Electrical Distribution Box	1
Cable Assembly, Light, 173-in	1
Cable Assembly, Light, 103-in	1
Cable Assembly, Outlet, 254-in	2
Cable Assembly, Outlet, 156-in	2

1. Record the serial number of the distribution box.
2. Completely wrap the temper electrical distribution box in cushioning material. Secure cushioning material in place with tape.
3. Wrap the temper electrical distribution box in barrier material. Secure in place with tape.
4. Record serial number on outside of wrapped distribution box.
5. Wrap the connectors on each end of the cables in two layers of cushioning material and secure in place with tape.
6. Wrap each connector end in barrier material. Secure in place with tape.
7. Coil each assembly and secure with twine or cable ties.

Locate two each kitchen power distribution boxes, and record serial number. Wrap kitchen power distribution boxes in two layer of cushioning material and secure in place with tape.

Locate one technical manual, TM 10-8340-224-13 and one technical manual, TM-10-8340-224-23P. Place the technical manuals in a bag made of barrier material and secure with tape.

Obtain three each foot lockers from the billeting subsystem and pack as follows:

1. Locate two each footlocker. Place one each TEMPER electrical distribution box and one TEMPER convenience outlet, 3-drop, as previously prepared inside each footlocker.
2. Locate one each footlocker. Place the previously prepared kitchen power distribution boxes and technical manuals into the footlocker.
3. Secure the lids, of the footlockers prepared in 1 and 2, above and place each locker inside original shipping box, if available. Other fiberboard boxes with exterior dimensions not to exceed 24-inch long x 21-inch wide x 13-inch high may be used. Secure boxes with tape. Stack the lockers in a central location.
4. Locate 11 each, 6-foot benches. Pack each bench in the original shipping container, or a replacement fiberboard container with exterior dimensions not to exceed 73-inch long x 14½-inch wide x 3½-inch high. Seal box with tape.

Locate six each 60A/100-foot power cables, as previously prepared and pack as follows:

1. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material. Secure in place with tape. Ensure each cable coil diameter is not greater than 30-inches.
2. Place each of the coiled cable assemblies into the manufacturer's original box, if available, or a fiberboard container with the outer dimensions of 32½-inch long x 32½-inch wide x 9-inch high. Secure boxes with tape.

Locate one Electrical Feeder System PDISE-M100, as previously prepared, and pack as follows:

1. Ensure that all connector covers on PDISE-M100 are installed and secured.
2. Wrap PDISE with cushion material and secure with tape.
3. Wrap PDISE with barrier material and secure with tape.
4. Place wrapped PDISE into original shipping fiberboard container, or appropriate replacement.
5. Place one TM 9-6150-226-13 into each container with PDISE and close the container with tape.
6. Locate two 100-A/50-foot service cables and one 100-A/4-foot pigtail, as previously prepared.
7. Wrap connectors of cable and pigtail assemblies with cushioning material and secure with tape. Wrap connectors with barrier material and secure with tape.
8. Coil each cable and pigtail assembly into a uniform coil with a diameter no greater than 26-inches.
9. Locate eight cable carrying straps and secure each 50-foot cable coil with four straps.

Locate one sledge hammer and one wooden mallet. Wrap sledge hammer head with a minimum of two wraps of cushioning material and secure with tape. Place both the sledge hammer and the mallet inside a fiberboard container with outer dimensions not to exceed 40½-inch long x 10-inches wide x 8-inches high. Fill voids within container using cushioning material to prevent contents from moving.

Locate two floormats. Tightly roll each 32-foot floormat individually, and secure in two places with tape.

## Packing Procedures for TRICON Type 10K

The following packing materials and other items are required to pack TRICON 10K:

**Table 49. TRICON Type 10K Packing Material.**

Item	Qty
Pad, Energy Dissipating, 3-inch Thick (Honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inch x 6-inch x 75- <sup>3</sup> / <sub>4</sub> -Inch	5
Fiberboard Sheet 4 X 8-foot	4
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	1
Shoring Beam, NSN 9540-01-491-3804	4

Use the following procedures to pack equipment into TRICON Type 10K:

1. Locate TRICON with "FOOD SANITATION/PREPARATION TENT; CO. TYPE 10K..." stenciled on the left door (this container should be staged near the food sanitation tent).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate tent fabric bundles. Bring bundles into the TRICON one at a time, place four in one level layer on the TRICON floor. Place second four into TRICON on at a time, forming a second layer. Ensure bundles do not extent out of TRICON and interfere with the closing of the doors.
5. Locate four tent pin boxes containing 30 steel tent pins in each box. Place on floor at the front of the TRICON as shown. Install a 2-inch x 6-inch x 75 <sup>3</sup>/<sub>4</sub>-inch lumber brace across the front of the TRICON to support the tent pins and fabric bundles, and to help contain them.
6. Locate four TEMPER frame window sections, two frame end sections, and two frame door sections. Place the two end section frames side by side on top of the tent fabric bundles from right rear to left front. Place four window section frames, and two door section frames atop of the end section frames. Ensure that the stack of frames is flat, stable, and centered and that the frame sections will not interfere with the 2-inch x 6-inch boards that will be placed across the front of the TRICON container when packing is complete.
7. Locate three footlockers with the components packed inside. Place one locker in the left rear corner against the rear wall. Place the remaining two footlockers lengthwise against the left wall as shown.
8. Locate one 100-A/50-foot service cable assembly and one 100-A/4-foot pigtail. Position the cables on top of the tent fabric bundles, in the left rear corner between the tent frame bundles and the footlockers, as shown.
9. Locate one floor mat. Place the roll on top of the footlockers against the left wall.
10. Locate the four tent pin fabric containers with 25 each 12-inch steel tent pins inside each container. Place tent pins between the rear footlocker, the tent frame bundles, and the PDISE cable assemblies, at the rear of the TRICON, as shown.
11. Locate the mallet/sledgehammer box. Place on top of the tent fabric bundles along the right wall, to the rear of the TRICON.

12. Locate one floor mat. Place the mat on top of the mallet/sledgehammer box against the right wall.
13. Locate the four tent pin fabric containers with 15 each 24-inch wooden tent pins inside each container. Place between the mallet/sledgehammer box and the tent frame bundles, as shown.
14. Locate the two TEMPER distribution box stands. Lay the stands flat on top of the tent frame bundles.
15. Locate one 100-A/50-foot service cable assembly and the PDISE M100. Place the items in front of the hammer/mallet box, and wood stake containers in the front on the right side of the TRICON.
16. Use filler material, as necessary, to create a tight, level pack, on this level. Place one 2-inch x 6-inch 75  $\frac{3}{4}$ -inch board in front of the upper portion of this layer.
17. Locate four shoring beams. Install them at the marks on the vertical uprights. Ensure that the beams are connected to the vertical uprights at the same height. Install two shelf assemblies atop the beams.
18. Locate six, 60-A/100-foot power cable assemblies, packed onto three boxes. Place two of the boxes flat on the shelf in the left rear corner, along the rear wall of the TRICON. Place the third box on the shelf, along the right wall of the TRICON in front of the first two boxes.
19. Locate four fluorescent light sets. Place one on edge next to the cable assembly boxes. Place three flat on top of the cable assembly boxes. Fill voids with honeycomb material to create a tight, level pack as shown.
20. Locate 11, 6-foot benches. Place the benches flat on top of light sets.
21. Locate four vestibule frame kits. Place the kits on top of benches as shown.
22. Use filler material, as necessary, to create a tight, level pack, on the shelf. Place three 2-inch x 6-inch 75  $\frac{3}{4}$ -inch boards in front of this layer.
23. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
24. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.

25. Close and secure TRICON door.

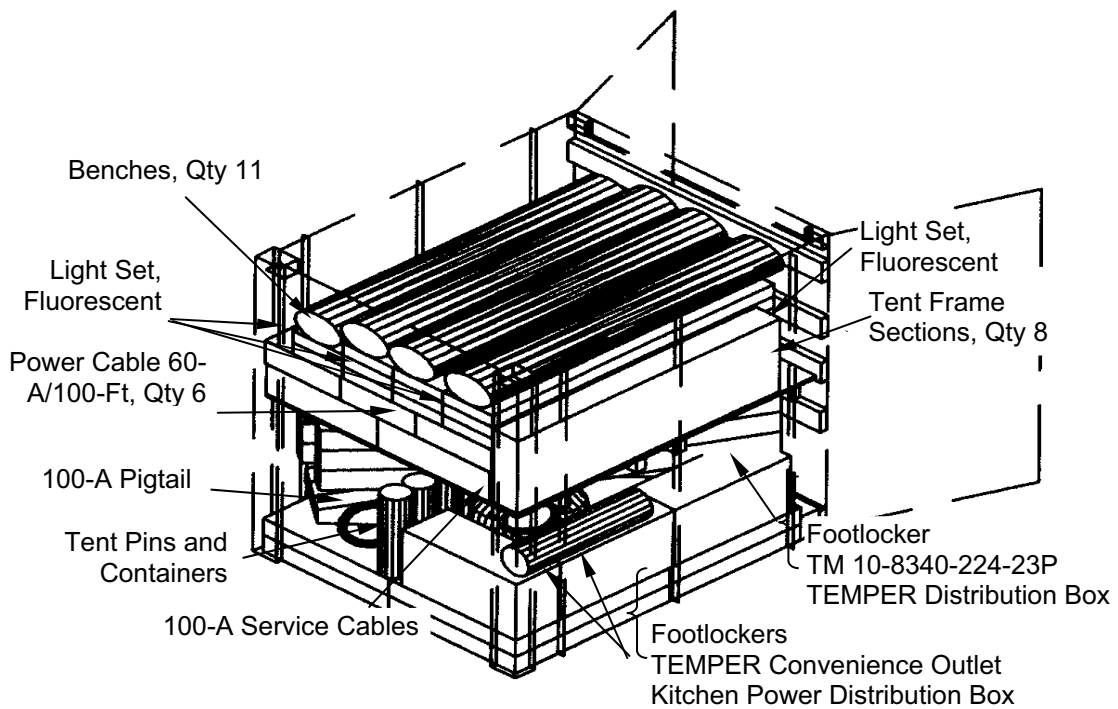
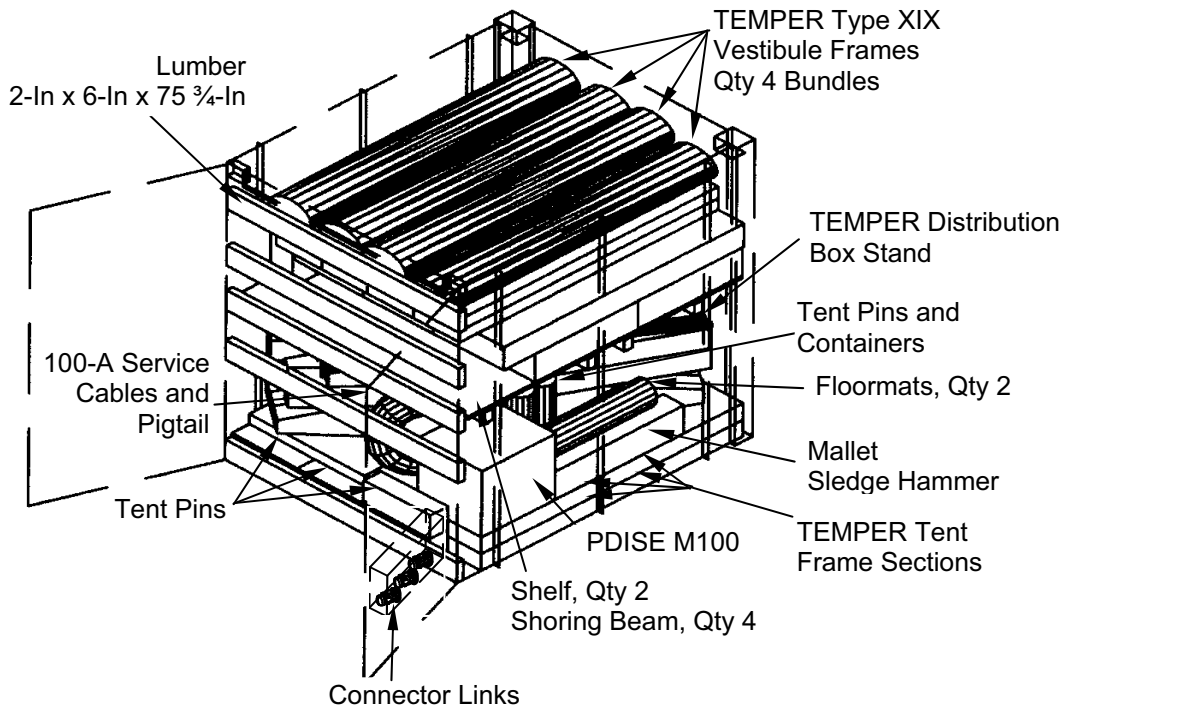


Fig 9. Field Packing Food Sanitation/Preparation Tent Kit TRICON Type 10K.



**FIELD PACKING KITCHEN TENT KIT TRICON TYPE 10L**

This paragraph provides information to pack equipment into TRICON 10L. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one type 10L TRICON. Shelves, shoring beams, bracing packaging, blocking, tiedowns, and dunnage retained during unpacking will be needed to repack items.

**Pertinent References:**

For a complete inventory of TRICON type 10L refer to Table 10, WP 0031 00.  
 For information and illustrations of TEMPER components refer to TM 10-8340-224-13.  
 For information and illustrations of other food service equipment refer to WP 0093 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00 or Bulk Items List.  
 Equipment must be clean, dry, and debris-free before packing.

Locate the kitchen tent, Type XV TEMPER components previously disassembled.

To prepare Tent Bundles #1 and #2, locate the following items:

**Table 50. Tent Bundle #1 and #2.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, TEMPER	1
Line, Tent	4
Slip, Tent Line	4
Tent Fly, 16-foot, TEMPER	1
Line, Tent	6
Slip, Tent Line	6
End Section, D/T TEMPER	1
Line, Tent	2
Slip, Tent Line	2

Prepare the bundles in accordance with the following procedure:

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., "tent 1, bundle 1, and "tent 1, bundle 2".

To prepare Tent Bundle #3, locate the following items:

**Table 51. Tent Bundle #3.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, TEMPER	1
Line, Tent	4
Slip, Tent Line	4
Tent Fly, 16-foot, Temper	1

**Table 51. Tent Bundle #3 – Continued.**

<b>Item</b>	<b>Quantity</b>
Line, Tent	6
Slip, Tent Line	6
Door Section, TEMPER	1
Line, Tent	2
Slip, Tent Line	2
Plenum, Extendable, TEMPER	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., “tent 1, bundle 3”.

To prepare Tent Bundle #4, locate the following items:

**Table 52. Tent Bundle #4.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Vestibule w/Door, TEMPER	2
Line, Tent	8
Slip, Tent Line	8
Door Section, TEMPER	1
Line, Tent	8
Slip, Tent Line	8

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., “tent 1, bundle 4”.

To prepare Tent Bundle #5, locate the following items:

**Table 53. Tent Bundle #5.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Vestibule w/Door, TEMPER	2

**Table 53. Tent Bundle #5 – Continued.**

<b>Item</b>	<b>Quantity</b>
Line, Tent	8
Slip, Tent Line	8
Door Section, TEMPER	1
Line, Tent	8
Slip, Tent Line	8
Intermediate Liner, TEMPER	3
Plenum, End Wall, TEMPER	1

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38 inches-wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., “tent 1, bundle 5”.

To prepare Tent Bundle #6, locate the following items:

**Table 54. Tent Bundle #6.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Vestibule w/Door, TEMPER	2
Line, Tent	8
Slip, Tent Line	8
Intermediate Liner, TEMPER	3
Liner, End Section, TEMPER	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38 inches-wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of the tent cover.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., “tent 1, bundle 6”.

Locate one end section frame, consisting of the following components:

**Table 55. End Section Frame Components.**

<b>Item</b>	<b>Quantity</b>
Arch Assembly	2
Header Assembly	2
Purlin Assembly	5

**Table 55. End Section Frame Components – Continued.**

<b>Item</b>	<b>Quantity</b>
Eave Extender Assembly	4
Ridge Extender Assembly	2
Transport/Storage Cover	1

6. Place frame transport/storage cover on clean flat surface.
7. Lay disassembled arch sections one on top of another in the center of the frame cover.
8. Position the five purlins and two headers on top of the arch sections.
9. Insert the eave and ridge extenders in open spaces between the other frame components.
10. Secure components with the straps provided inside the frame cover. Close up cover and secure.
11. The overall dimensions of the bundled frame section shall not exceed 98½-inch long x 17- inch wide x 8-inch tall.
12. Container identification stencil must be visible, i.e., “End Section Frame Assembly.” Locate two each window section frames, consisting of the following components:

**Table 56. Window Section Frame Components.**

<b>Item</b>	<b>Quantity</b>
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender Assembly	1
Transport/Storage Cover	1

Prepare two window section frames in accordance with the following procedure:

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch section in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inch long x 17- inch wide x 8-inch tall.
7. Container identification stencil must be visible, i.e., “Window Section Frame Assembly”.

Locate three door section frames, consisting of the following components:

**Table 57. Door Section Frame Components.**

<b>Item</b>	<b>Quantity</b>
Arch Assembly	1
Header Assembly	1

**Table 57. Door Section Frame Components – Continued.**

Item	Quantity
Purlin Assembly	2
Purlin Assembly, Door Sill	3
Eave Extender Assembly	2
Ridge Extender Assembly	1
Transport/Storage Cover	1

Prepare three door section frame bundles in accordance with the following procedure:

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch section in the center of the frame cover.
3. Position the five purlins and one header on top of the arch section.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inch long x 17- inch wide x 8-inch tall.
7. Container identification stencil must be visible, i.e., “Door Section Frame Assembly”.

Locate three vestibule frame kits, each consisting of the following components:

**Table 58. Vestibule Frame Kit Components.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

1. Locate one each vestibule frame container.
2. Place three vestibule frame assemblies inside the frame container. Place cushioning material between metal parts that contact each other in the container. Secure container with tape.
3. Container identification stencil must be visible, i.e., “Vestibule Frame Assembly”.

Locate four each fabric tent pin containers, 42 wood tent stakes, and 82, 12-inch steel tent pins. Place 21 wood stakes inside each of two containers. Place 41 steel pins inside of each remaining two containers. Secure container with tie provided.

Locate or fabricate three each tent pin boxes. Locate 82 each 18-inch steel tent pins. Place 30 each tent pins inside two boxes. Place 22 each into the third box. Tack each corner of the top with a nail and secure each box with steel strapping

Locate four fluorescent light sets. Place each light set into an original manufacturer’s box, if available, or a fiberboard box with exterior dimensions not to exceed 75½-inch long x 22-inch wide x 7-inch high. Close boxes with tape.

Locate two TEMPER distribution box stands and wrap both ends with cushioning material. Secure with tape. Wrap fiberboard around the center mounting plate and secure it in place with tape.

Locate four TEMPER convenience outlet assemblies, 3-drop. Wrap each convenience outlet in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.

Locate two TEMPER Distribution Box Assemblies, each consisting of the following components:

**Table 59 TEMPER Distribution Box Assembly.**

Item	Quantity
TEMPER Electrical Distribution Box	1
Cable Assembly, Light, 173-in	1
Cable Assembly, Light, 103-in	1
Cable Assembly, Outlet, 254-in	2
Cable Assembly, Outlet, 156-in	2

1. Record the serial number of the distribution box.
2. Completely wrap the temper electrical distribution box in cushioning material. Secure cushioning material in place with tape.
3. Wrap the temper electrical distribution box in barrier material. Secure in place with tape.
4. Record serial number on outside of wrapped distribution box.
5. Wrap the connectors on each end of the cables in two layers of cushioning material and secure in place with tape.
6. Wrap each connector end in barrier material. Secure in place with tape.
7. Neatly coil each assembly and secure with twine or cable ties.

Locate one technical manual, TM 10-8340-224-13 and one technical manual, TM-10-8340-224-23P. Place the technical manuals in a bag made of barrier material and secure with tape.

Obtain 12 each foot lockers from the billeting subsystem and pack as follows:

1. Locate two each footlocker. Place two each TEMPER electrical distribution boxes and two TEMPER convenience outlet, 3-drop, as previously prepared inside each footlocker.
2. Locate one each footlocker. Place the previously prepared TEMPER technical manuals into the footlocker.
3. Locate nine each footlockers. Secure the lids, including those of the footlockers prepared in 1 and 2, above, and place each locker inside original shipping box, if available. Other fiberboard boxes with exterior dimensions not to exceed 24-inch long x 21-inch wide x 13-inch high may be used. Secure boxes with tape. Stack the lockers in a central location.

Locate four each 60A/100-foot power cables, as previously prepared and pack as follows:

1. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material. Secure in place with tape. Ensure each cable coil diameter is not greater than 30-inches.
2. Place each of the coiled cable assemblies into the manufacturer's original box, if available, or a fiberboard container with the outer dimensions of 32½-inch long x 32½-inch wide x 9- inch high. Secure boxes with tape.

Locate one Electrical Feeder System PDISE M-100, as previously prepared, and pack as follows:

1. Ensure that all connector covers on PDISE-M100 are installed and secured.
2. Wrap PDISE with cushion material and secure with tape.
3. Wrap PDISE with barrier material and secure with tape.
4. Place wrapped PDISE into original shipping, or appropriate replacement fiberboard container.
5. Place one TM 9-6150-226-13 into each container with PDISE and close the container with tape.
6. Locate two 100-A/50-foot service cables and one 100A/4-foot pigtail assembly, as previously prepared.
7. Wrap connectors of cable and pigtail assemblies with cushioning material and secure with tape. Wrap connectors with barrier material and secure with tape.
8. Coil each cable and pigtail assembly into a uniform coil with a diameter no greater than 26-inches.
9. Locate eight cable carrying straps and secure each 50-foot cable coil with four straps.

Locate one sledge hammer and one wooden mallet. Wrap sledge hammer head with a minimum of two wraps of cushioning material and secure with tape. Place both the sledge hammer and the mallet inside a fiberboard container with outer dimensions not to exceed 40½-inch long x 10-inch wide x 8-inch high. Fill voids within container using cushioning material to prevent contents from moving.

Locate two floormats. Tightly roll each 32-foot floormat individually, and secure in two places with tape.

**Packing Procedures for TRICON Type 10L**

The following packing materials and other items are required to pack TRICON 10L:

**Table 60. TRICON Type 10L Packing Materials.**

Item	Qty
Pad, Energy Dissipating, 3-inch Thick (Honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inch x 6-inch x 75- <sup>3</sup> / <sub>4</sub> -Inch	3
Fiberboard Sheet 4 X 8-foot	4
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	1
Shoring Beam, NSN 9540-01-491-3804	4

Use the following procedures to pack equipment into TRICON Type 10L:

1. Locate TRICON with “KITCHEN TENT KIT; CO. TYPE 10L...” stenciled on the left door (this container should be staged in food service area near the kitchen TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.

4. Locate tent bundles 1, 2, 3 and 4. Bring bundles into the TRICON one at a time, forming a uniform layer covering the entire floor. Ensure the bundles do not extent out the front of the TRICON, interfering with closing of the door.
5. Locate tent bundles 5 and 6. Bring bundles into the TRICON One at a time. Place 1 bundle in the back left corner of the TRICON and the other in the front right corner on top of the first layer. Ensure the bundles do not extent out the front of the TRICON, interfering with closing of the door.
6. Locate one each end section frame, three door section frames, and two window section frames. Place the three door section frames side by side on the tents running from the right rear corner to the left front corner. On top of these, place two window section frames. Place the end section frame on the top of the rear side of the stack. Ensure that the stack of frames is flat, stable, and centered and that the frame sections will not interfere with the 2-inch x 6-inch boards that will be placed across the front of the TRICON container when packing is complete.
7. Locate one each 100A/50-foot service cable assembly, two wooden stake containers, and one 100A/4-foot cable pigtail. Locate the two footlockers that contain the temper electrical distribution boxes. Securely nest these items in left rear triangular quadrant of container.
8. Locate the two TEMPER electrical distribution box stands. Lay the stands flat on top front of the tent frames.
9. Locate mallet/sledgehammer box. Locate two floormat rolls. Locate one 100A/50-foot cable assembly. Locate 100A PDISE box. Locate the footlocker that contains the technical manuals. Securely nest these items in right front triangular quadrant of container.
10. Locate four shoring beams. Install them on the locations marked on the vertical uprights. Ensure that all beams are connected to the vertical uprights at the same height. Locate and install two shelf assemblies on top of the beams.
11. Locate nine remaining footlockers, one light set, and two 60A/100-foot cable containers. Place footlockers on right side of the shelf, one row of four and one row of five deep. Place one light set on top of footlockers. Place cable containers on right front portion of shelf.
12. Locate three remaining light sets. Place side by side on left side of footlockers as shown.
13. Locate six vestibule frame assembly containers. Place them on the left top of the pack.
14. Locate three tent pin boxes and two fabric containers with steel pins. Place these along the front of the TRICON. Install a 2-inch x 6-inch lumber brace across the front of the TRICON to support and secure the containers and boxes.
15. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
16. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.



17. Close and secure TRICON doors.

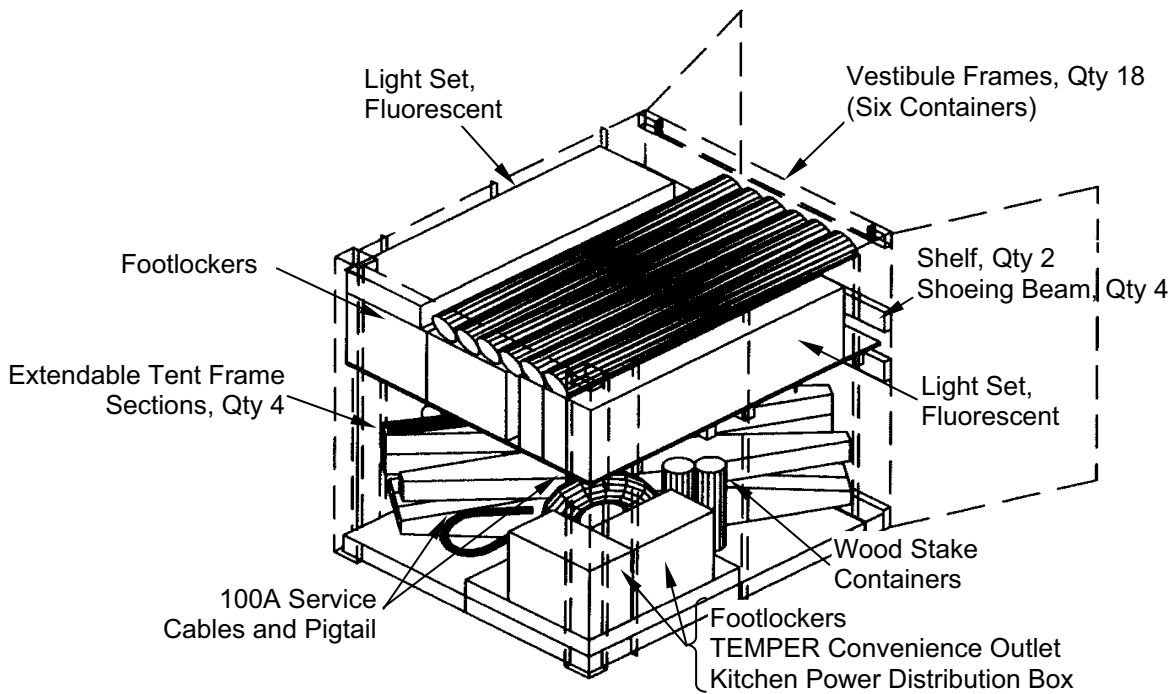
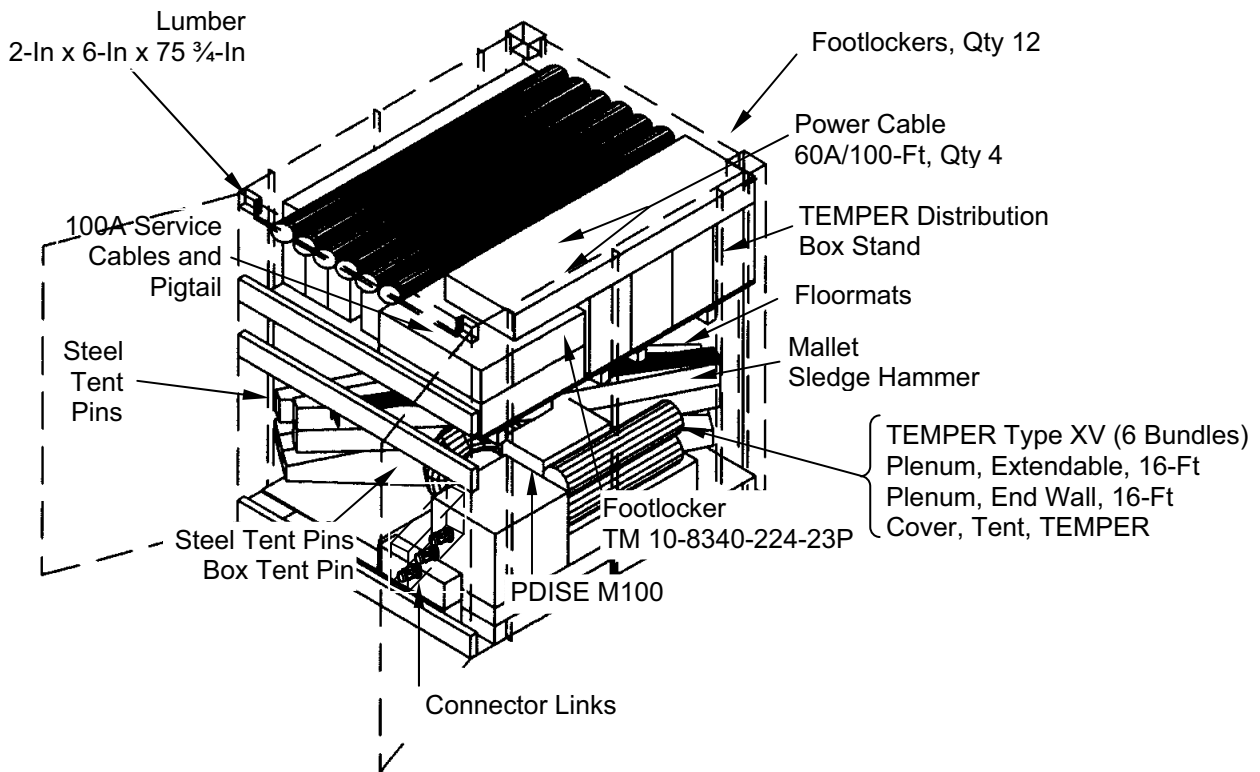


Fig 10. Field Packing Kitchen Tent Kit TRICON Type 10I.

END OF WORK PACKAGE



**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - SITE PREPARATION AND MAINTENANCE SUBSYSTEM**
**GENERAL**

Following are instructions for the preparation for movement and field packing of the site preparation and maintenance subsystem equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed. Refer to WP 0032 00 and WP 0094 00 for equipment illustrations, as necessary.

Conduct PMCS on the equipment, as applicable, prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Replace damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON covered in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL (TM 10-5419-206-23P, WP 0002 00).

**NOTE**

TRICON 11B and 11C, containing System Support Packages (SSP), will be prepared for movement and packed by personnel of the Administrative Subsystem.

**PREPARATION FOR MOVEMENT OF SITE PREPARATION EQUIPMENT**

The following procedures outline the steps to prepare the power supply equipment for movement.

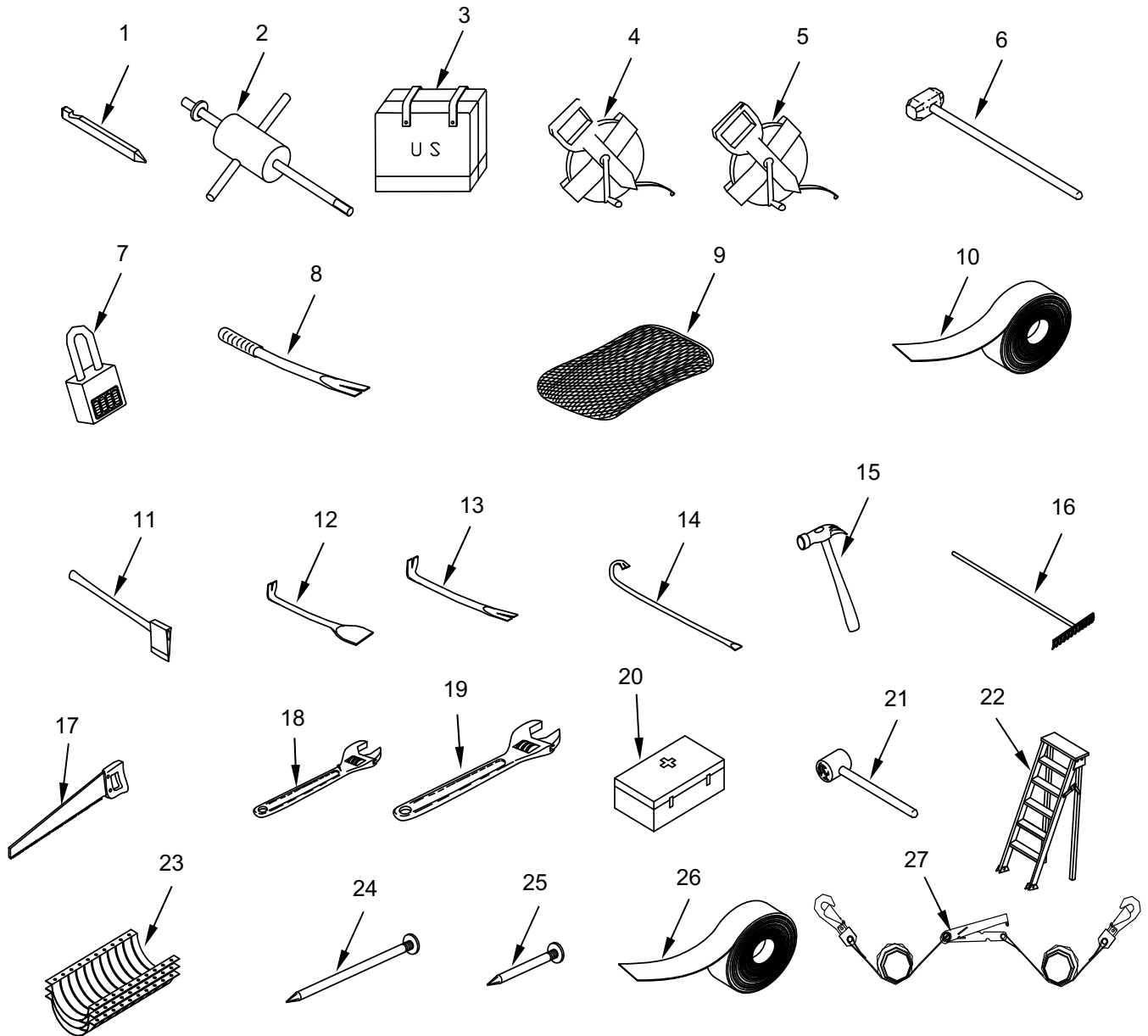
1. Locate and set aside for packing the following equipment in the quantities indicated. Some material items may have been used up during operation. Prepare only unused materials for return shipment.

**Table 1. Site Preparation Equipment.**

Subcomponent	Item Number	Qty
PIN, TENT, WOOD, 24 IN	Item 1	200
SLIDE HAMMER, GROUND ROD	Item 2	1
SIGN MAKING KIT, PORTABLE	Item 3	8
TAPE, MEASURING, 100 FT, OPEN REEL, FIBERGLASS	Item 4	2
TAPE, MEASURING, 300 FT, OPEN REEL, FIBERGLASS	Item 5	1
SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE	Item 6	5
PADLOCK, COMBINATION, FOUR POINT	Item 7	25
OPENER, CRATE	Item 8	5
BAG, SAND, ACRYLIC, GREEN	Item 9	38
RIBBON, FLAGGING, SURVEYOR'S, FLUORESCENT PINK, 50 YARD ROLL	Item 10	1
AX, SINGLE BIT, FLAT TOP FACE, HICKORY HANDLE, 31 IN LONG, 4 POUND HEAD	Item 11	1
BAR, COMBINATION PRY AND SCRAPE, 2½ X 13 INCH	Item 12	5
PRY BAR, 16 IN LONG, STEEL	Item 13	5
BAR, WRECKING, ¾ IN DIAMETER, 36 IN LONG	Item 14	5
HAMMER, HAND, 16 OZ. HEAD, 13 IN LONG	Item 15	5
RAKE, GARDEN	Item 16	10
SAW, CROSSCUT, SKEW BACK, 26 IN CUT EDGE, 8 P – IN	Item 17	2
WRENCH, ADJUSTABLE, 8 IN LONG, 15/16 IN JAW CAP	Item 18	5
WRENCH, ADJUSTABLE, 12 IN LONG, 1-5/16 IN JAW CAP	Item 19	5
FIRST AID KIT, 20-25 MAN CREW	Item 20	10
MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD	Item 21	2
STEP LADDER, 6 FT, 250 POUND DUTY RATING, UL 112, TYI	Item 22	2

Table 1. Site Preparation Equipment – Continued.

Subcomponent-Continued	Item Number	Qty
PIPE, CULVERT, NESTABLE, STEEL, 12 IN DIA, ROUND, FLANGED HALF SECTIONS WITH BOLTS AND NUTS	Item 23	120
NAIL COMMON, SIZE 10D, (3-1/4 IN. LONG), 5 LB. BOX	Item 24	20
NAIL COMMON, SIZE 8D, (2½ IN. LONG), 5 LB. BOX	Item 25	20
RIBBON, FLAGGING, SURVEYOR'S, FLUORESCENT YELLOW, 50 YARD ROLL	Item 26	1
SPECIAL PURPOSE WEB, TIEDOWN	Item 27	4
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM		1
TECHNICAL MANUAL, FORCE PROVIDER SYSTEM		1



2. Individually wrap each of the items listed below in cushioning material and secure with tape. Place the items into a rectangular fiberboard container of sufficient size to accommodate all items. Close and seal the fiberboard box with tape.

**Table 2. Items to be Placed in Fiberboard Container.**

Item, NSN	Qty
Opener, Crate, 5120-00-809-9450	5
Pry Bar, 16-In long, Steel, 5120-00-224-1389	5
Bar, Wrecking, 3/4-In, Diameter, 36-In long, 5120-00-242-0762	5
Bar, Combination, Pry and Scrape, 2-1/2 X 13-In, 5120-00-965-0879	5
Slide Hammer, Ground Rod, 5120-01-013-1676	1
Saw, Cross, Skew Back, 26-In Cutting Edge, 8 Points per Inch, 5110-00-293-3435	5
Ax, Single Bit, Flat Top Face, Hickory Handle, 31-In long, 4-lbs Head, 5110-00-293-2336	1
Hammer, Hand, 16-Oz Head, 13-In long 5120-01-112-8351	5
Padlock, Combination, Four Point, 5340-00-292-0896	25
Tape, Measuring, 100-Ft, Open Reel, Fiberglass, 5210-00-554-7087	2
Tape, Measuring, 300-Ft, Open Reel, Fiberglass 5210-00-554-7087	2
Wrench, Adjustable, 12-In long, 1-5/16-In Jaw Capacity, 5120-00-264-3796	5
Wrench, Adjustable, 8-In long, 15/16 In Jaw Capacity, 5120-00-240-53285	5

3. Locate ten garden rakes. Wrap rake head with a minimum of two wraps of cushioning material and secure in place with tape.
4. Locate five each sledge hammers and two each wood mallets. Wrap sledge hammer head with a minimum of two wraps of cushioning material and secure in place with tape. Mallet requires no preservation. Place one sledge hammer and one mallet inside a fiberboard container with outer dimensions not to exceed 40½-inches long x 10-inches wide x 8-inches high. Fill voids within container using cushioning material and/or install fiberboard cradles to prevent contents from moving. Close the fiberboard box with tape.
5. Locate three additional sledge hammers and pack as described above, placing each in a fiberboard box, secured as described above.
6. Locate one box of ribbon, flagging, surveyor's, fluorescent yellow, 50-yard rolls (or remaining quantity) and one box of ribbon, flagging, surveyor's, fluorescent pink, 50-yard rolls (or remaining quantity). Place remaining rolls of ribbon, flagging, surveyor's into a fiberboard container and secure with tape.
7. Locate thirty eight bundles of one hundred each acrylic sand bags, place each bundle of 100 each, in a single bag made from barrier material.
8. Locate two-hundred each pin, tent, wood, 24-inch. Place 50 each, pin, tent, wood, 24-inch into a fiberboard container and secure with tape.
9. Locate twenty packages (or remaining quantities) of nail, common, size 10d, 5-lb box and twenty packages (or remaining quantities) of nail, common, size 10d (3¼-in long), 5-lb box.
10. Place 5-lb nail boxes in groups of ten into a fiberboard box and secure box with tape.
11. Locate ten each first aid kit, 20-25 man crew. Wrap item in two wraps of cushioning material and secure cushioning material in place with tape. Place item in a plastic bag and secure with tape. Place five each kits into a fiberboard box and close the box with tape.
12. Locate eight each sign making kits, portable. Wrap each item in two wraps of cushioning material and secure cushioning material in place with tape.
13. Place each item in a bag fabricated of barrier material. Place these items into a fiberboard box and secure with tape.

14. Locate one Technical Manual, Force Provider (TM 10-5419-206-13) and one Technical Manual, Force Provider (TM 10-5419-206-23P). Place the technical manuals in a plastic bag and seal with tape.
15. Locate two step ladders, 6-foot, 250-pound duty rating. Secure ladders in the closed position with nylon cable zip ties.

**Packing Procedures for TRICON Type 11A**

The following packing materials and other items are required to pack TRICON 11A:

**Table 3. TRICON Type 11A Packing Materials.**

Item	Qty
Pad, Energy Dissipating, 3-In thick (Honeycomb), NSN 1670-00-753-3928	As Required
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Plywood Sheet, ¾-In thick	2
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Lumber, 2 X 6 X 75-¾-Inches long	1
Corrugated Fiberboard Stock, ASTM-D4727	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Fiberboard Sheet 4 X 8-Inches	4

Use the following procedures to pack bottom layer of TRICON type 11A:

1. Locate TRICON with "SITE PREPARATION/MAINTENANCE KIT; CO. TYPE 11A..." stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Cut two sheets of the ¾-inch thick plywood so that they will lay flat on the floor of the TRICON, tight to all sides, and so that the doors will close tight against the front edges.
4. Locate two each special purpose web, tiedowns. Attach the non-ratchet end of the straps on the rear vertical uprights, left and right, at a height that is approximately 3 to 4 inches lower than the reusable container. Position the straps so that they are out of the way for the next step but making sure that they do not get caught up on the containers when they are put into the TRICON.
5. Locate one each container, reusable, bulk equipment, small (8145-01-415-4113). Work each barrel bolt mechanism of the container on the door to determine that it can be easily opened and closed. Line the sides and floor of each container with two layers of fiberboard. Cut the fiberboard so that it will bend when the door on the container is opened.
6. Locate one-hundred-twenty each pipe culverts with bolts and nuts. Note: one culvert consists of two half sections. Place pipe culvert sections into the reusable container.
7. Locate five each sledge hammers and two each wood mallet, 6-inch face x 8-inch long head. Place into the reusable container.
8. Locate twelve bundles (or remaining amount) of acrylic sand bags. Place sand bag bundles into the reusable container in a tight configuration, which prevents movement of the contents during shipping. Use dunnage to take up empty space.
9. Fabricate (or use original retained) plywood cover in accordance with drawing 9-1-0758 (81337). The cover shall be sized so that it fits into the four corner brackets of the container.

10. Place the cover on the container with cleats facing up. Secure cover with steel with strapping.
11. Load the reusable container, with pipe culverts packed inside, into the TRICON. Cross the tiedown straps over the reusable container, and secure to the opposite corners. Neatly fold loose strap ends and secure with plastic cable zip ties.
12. Locate four (4) shoring beams and two shelf, shipping and storage. Install the shoring beams where marked with paint or permanent marker on the vertical uprights. Install the two shelves on top of the brackets.
13. Locate the previously packed fiberboard box containing the following miscellaneous items:

**Table 4. Fiberboard Container Contents.**

Item, NSN	Qty
Opener, Crate, 5120-00-809-9450	5
Pry Bar, 16-In long, Steel, 5120-00-224-1389	5
Bar, Wrecking, 3/4-In, Diameter, 36-In long, 5120-00-242-0762	5
Bar, Combination, Pry and Scrape, 2-1/2 X 13-In, 5120-00-965-0879	5
Slide Hammer, Ground Rod, 5120-01-013-1676	1
Saw, Cross, Skew Back, 26-In Cutting Edge, 8 Points per Inch, 5110-00-293-3435	5
Ax, Single Bit, Flat Top Face, Hickory Handle, 31-In long, 4-lbs Head, 5110-00-293-2336	1
Hammer, Hand, 16-Oz Head, 13-In long 5120-01-112-8351	5
Padlock, Combination, Four Point, 5340-00-292-0896	25
Tape, Measuring, 100-Ft, Open Reel, Fiberglass, 5210-00-554-7087	2
Tape, Measuring, 300-Ft, Open Reel, Fiberglass 5210-00-554-7087	2
Wrench, Adjustable, 12-In long, 1-5/16-In Jaw Capacity, 5120-00-264-3796	5
Wrench, Adjustable, 8-In long, 15/16 In Jaw Capacity, 5120-00-240-53285	5

14. Place container on the shelf, along the right side, against the rear of the TRICON.
15. Locate the four boxes (or remaining quantities) of nail, common, size, 3/4-Inch long, 5-lb box and nail, common, size 10d, 5-lb box (or remaining quantities). Place the nail boxes in the middle of the TRICON against the rear wall.
16. Locate the two boxes containing ten first aid kits, 20-25 man crew. Place the two boxes in front of the nail boxes in the middle of the TRICON.
17. Locate eight sign making kit, portable. Place six sign making kits along the left TRICON wall, as shown. Place two sign making kits in front of the first aid kit boxes, in the middle of the TRICON.
18. Locate four boxes containing two-hundred (200) each pin, tent, wood, 24-inch. Place at the front of the TRICON, in front of the two sign making kits in the center.
19. Locate ten Garden rakes. Nest together, on top of the fiberboard container with the miscellaneous site preparation kit items, on the right side of the container.
20. Locate the two Technical Manuals, Force Provider. Place on top of the tent pin boxes.
21. Locate two step ladders, 6-foot, 250-pound rating. Place the ladders on top of the boxes, side by side.
22. Place honeycomb material to fill voids, and create a tight secure pack on this shelf. Place one each 2-inch x 6-inch x 75/4-inch piece of lumber in front of the load to ensure that the items do not fall forward when the TRICON doors are opened.
23. Locate four shoring beams and two shelf, shipping and storage. Install the shoring beams where marked with paint or permanent marker on vertical uprights. Install two shelves on top of the brackets.

24. Locate twenty-six bundles (or remaining quantities) of acrylic sand bags. Place sand bag bundles on the top shelf, as shown.
25. Install blocking and bracing as required to secure the contents inside the TRICON. Blocking, bracing, fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the TRICON doors are opened.
26. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.
27. Close and secure TRICON doors.

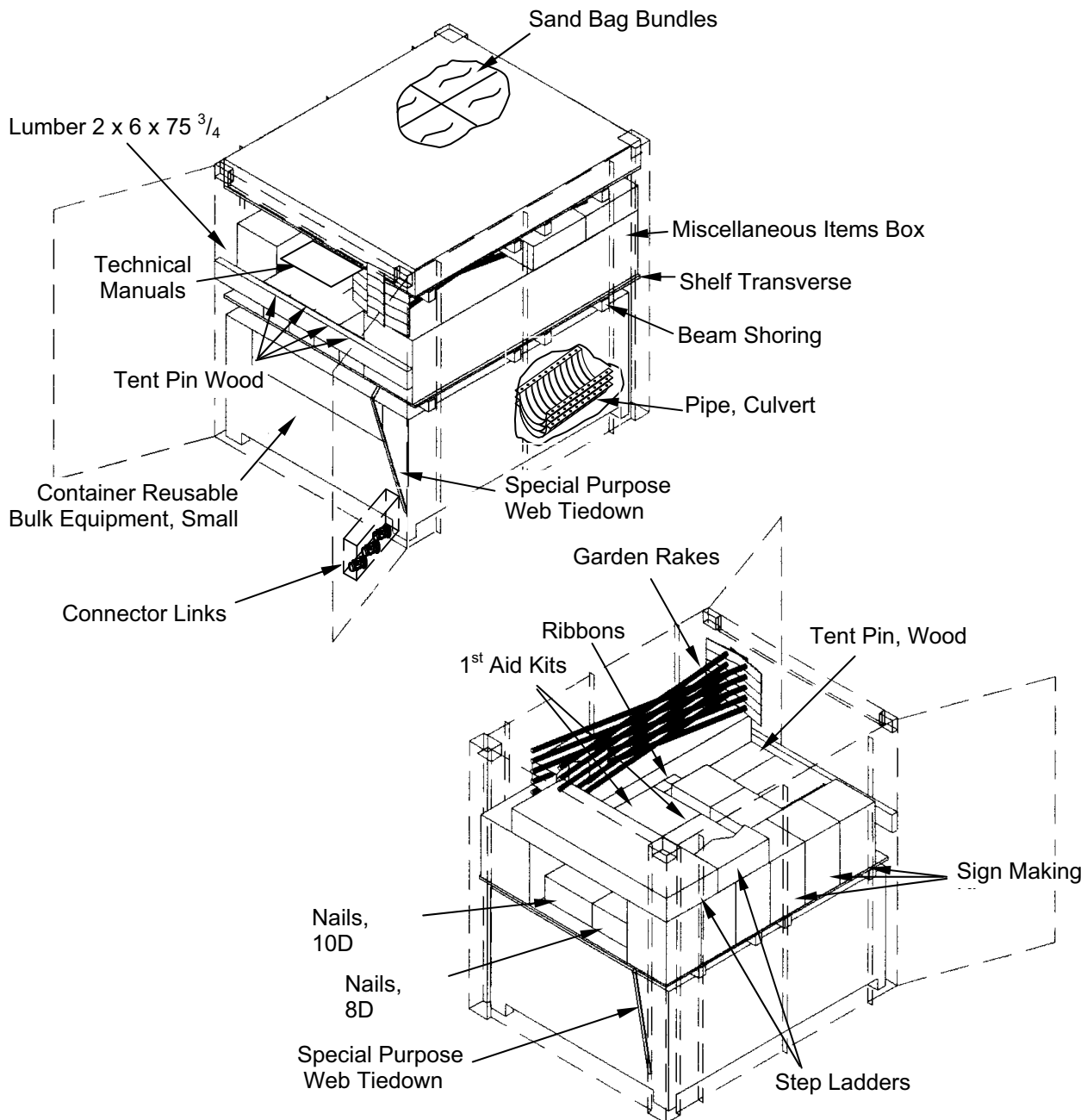


Fig 1. Field Packing Site Preparation / Maintenance Kit Type 11A.

END OF WORK PACKAGE



## FORCE PROVIDER PREPARATION FOR MOVEMENT - ADMINISTRATION SUBSYSTEM

### GENERAL

Following are instructions for the preparation for movement and field packing of the administration subsystem equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed. Equipment to be packed into TRICON 12E is shared with the MWR subsystem. Shutdown, preparation and packing of equipment in these TRICON must be coordinated between personnel of both subsystems. Refer to WP 0033 00 and WP 0095 00 for equipment illustrations, as necessary.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

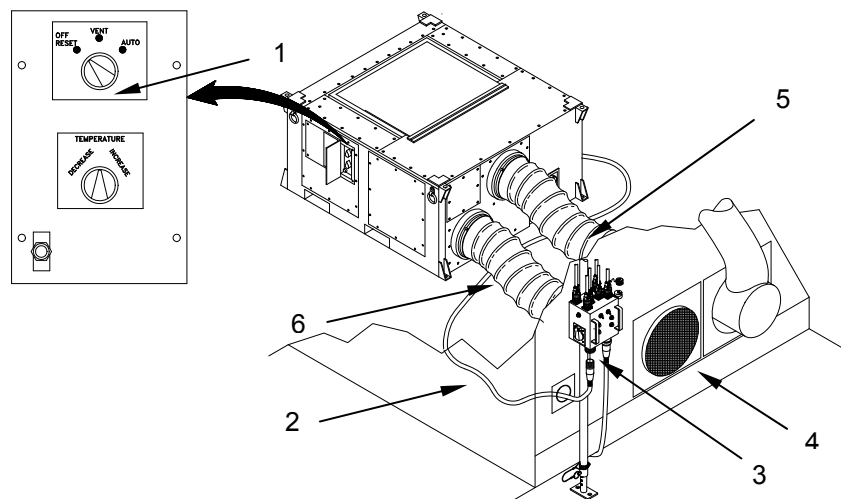
Replace damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON covered in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL (TM 10-5419-206-23P, WP 0002 00).

### PREPARATION FOR MOVEMENT OF MWR/ADMINISTRATION ECU

#### NOTE

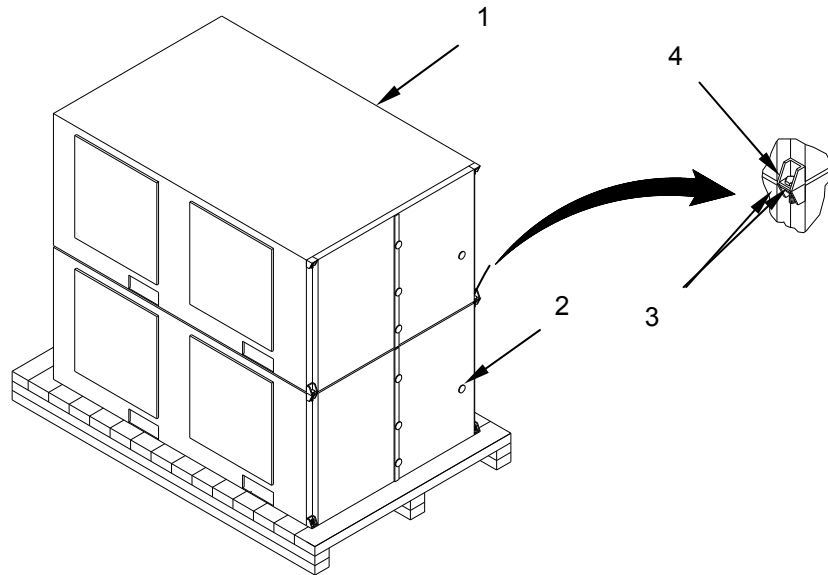
The following instructions for the preparation for movement of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-4096) is at hand, assemble, shut down and prepare it for movement and packing in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-459) are at hand, use TM 9-4120-411-14. Otherwise, follow the instructions below.

1. Set ECU mode selector switch (1) to OFF- RESET position.
2. Disconnect ECU power cable (2) from POWER OUT receptacle on TEMPER power distribution box (3). Install dust caps on cable and receptacle. Coil cable (2) and store inside condenser compartment storage box.
3. Remove debris screen (4) from return duct.
4. Disconnect ECU supply duct (5) and return duct (6) from TEMPER and ECU. Store ducts in condenser compartment storage box.



Prepare the ECU for movement as follows:

1. Locate two ECU (1) and (2), one with attached pallet and one without. Ensure latches and doors are secured.
2. Remove four mounting bolts, nuts and washers (3) from four unit-to-unit corner mounts (4) of pallet-attached ECU (2).
3. With forklift, position ECU (1) without pallet on top of pallet-attached ECU (2), ensuring both ECU (1) and (2) face the same direction and unit-to-unit mounting holes (4) are aligned. Secure units together with four  $\frac{5}{8}$ -inch x 2-inch bolts, four  $\frac{5}{8}$ -inch nuts and four flat washers (3).



4. Pack ECU pallet into TRICON Type 12E as described under FIELD PACKING MWR/ADMIN ECU KIT TYPE 12E in this WP. Coordinate with MWR personnel to pack ECU into shared TRICON 12C.

### PREPARATION FOR MOVEMENT OF ADMINISTRATION POWER SUPPLY EQUIPMENT

The following procedures outline the steps to prepare the power supply equipment for movement.

1. Switch all TEMPER electrical equipment to OFF and set TEMPER power control switch to OFF.
2. Set all PDISE-M100 circuit breakers, including MAIN, to OFF.



### WARNING

Power supply shall be shut off and disconnected only by qualified personnel. Power source must be shut off and disconnected before attempting to disassemble power supply equipment. Failure to observe this warning may result in severe injury or death by electrocution.

3. Have qualified personnel shut off power to PDISE. Power source must be shut off and disconnected before attempting to disassemble power supply equipment.
4. Have qualified personnel disconnect 100-A/4-foot pigtail from power source.

To disassemble the power supply equipment, proceed as follows:

1. Disconnect 100-A/50-foot service cables from pigtails. Install dust caps.
2. Disconnect each pair of 100-A/50-foot service cables. Install dust caps.
3. Disconnect 100-A/50-foot service cable from J1 connector on each PDISE-M100. Install dust caps.
4. Disconnect 60-A/100-foot power cables from J3 and J6 connectors on each PDISE-M100. Install dust caps.
5. Disconnect each pair of 60-A/100-foot power cables. Install dust caps.
6. Disconnect 60-A/100-foot power cables from POWER IN receptacle (J1) on TEMPER power control box. Install dust caps.

Power supply equipment must be cleaned of dirt, debris and corrosion. Dry the equipment thoroughly, before packing. Prepare power supply equipment for packing as follows:

1. Service and Power Cables. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and then allow to completely air dry.
2. PDISE-M100. Clean the external surfaces with a clean, damp rag. Clean the face of PDISE-M100 circuit breaker panel with a dry rag.

Prepare the following cables for packing into TRICON Type 12E and 12F. Quantities listed are for two TEMPER, to be packed into one TRICON. Position power supply equipment near TRICON to be packed, but do not begin packing yet. Procedure for field packing the containers follow later in this WP.

1. Locate one PDISE-M100. Ensure that all connector covers are installed and secured, and that the top cover is closed and secured.
2. Locate two 100-A/50-foot service cables and eight cable carrying straps. Coil each cable into a uniform coil having a diameter no greater than 26-inches. Secure each coil using four cable carrying straps.
3. Locate four 60-A/100-foot power cables and eight carrying straps. Coil each cable into a uniform coil having a diameter no greater than 30 inches. Secure each coil using two cable carrying straps.
4. Locate one 100-A/4-foot pigtail. Ensure dust cap is installed and secured on the cable connector.

#### **PREPARATION FOR MOVEMENT OF ADMINISTRATION TEMPER**

Prior to striking the TEMPER, ensure all equipment has been removed.

#### **NOTE**

Do NOT pool or mix TEMPER components. Keep all components in the area where TEMPER was erected.

Strike TEMPER in accordance with TM 10-8340-224-13.

TEMPER Components must be cleaned of dirt, debris and corrosion, then dried thoroughly, before packing. Prepare TEMPER Equipment for packing as follows:

1. Exterior Fabric Components and Vinyl Liners. Sweep loose dirt from both sides of each fabric section and clean with scrub brush and warm soapy water. Rinse clean and allow fabric to completely air dry.
2. Cloth Liners. Do not launder liners. Sweep loose dirt from both sides of each liner. Allow liners to completely air dry.
3. Frame Components. Clean with steam cleaner or pressurized washer, and scrub brush. Allow frame sections to completely air dry.
4. Electrical Cable Assemblies. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and allow cables to completely air dry.
5. TEMPER Power Control. Clean the external surfaces with a clean, damp rag. Ensure all dust caps are installed and secure.

**FIELD PACKING SYSTEM SUPPORT KIT, PART A, TYPE 11B**

This paragraph provides information to pack equipment into TRICON Type 11B. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON, Type 11B. Reusable Bulk Equipment Containers (Small), packaging, blocking, bracing, tiedowns, and dunnage material, as applicable, retained during unpacking will be needed to repack equipment for storage or shipment.

**Pertinent References:**

For a complete inventory of TRICON Type 11B refer to Table 1, WP 0033 00.  
 For illustrations of the ECU refer to PREPARATION FOR MOVEMENT OF MWR/ADMINISTRATION ECU in this WP.  
 For illustrations of other administration equipment refer to WP 0033 00 and WP 0095 00.  
 For information and illustrations of PDISE-M100 and associated components refer to TM 9-6150-226-13.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

**NOTE**

When assembling the component parts of the various system support packages, pack only new, unused parts. Dispose of damaged parts locally. Not all parts listed for each system support package may be available for packing due to usage. Use filler or dunnage material for empty spaces.

1. Locate the 125-GPM system support package (SSP) consisting of the listed components and pack as follows:

**Table 1. 125-GPM System Support Package Components.**

Item	Part Number	CAGE	Qty
Mechanical Seal and O-Ring Kit	50-006	(25567)	1
Impeller, 125 Pump	2-127a	(25567)	1
Mount, Isolation	29-237	(25567)	8
Filter, Air	114250-12581	(0ak42)	4
Filter, Fuel	114250-55121	(0ak42)	4
Filter, Oil	114250-35110	(0ak42)	4
Starter, Recoil	714260-76821	(0ak42)	2
Rocker Arm, Intake	114771-11660	(0ak42)	1

**Table 1. 125-GPM System Support Package Components - Continued.**

Item	Part Number	CAGE	Qty
Rocker Arm, Exhaust	114771-11650	(0ak42)	1
Parts Manual, Model L48ee	A0a11310	(0ak42)	1
Service Manual, Model L48ee	Yoor5140	(0ak42)	1

- a. Place items into bag made of barrier material and seal with tape.
  - b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.
2. Locate the ECU SSP consisting of the listed components and pack as follows:

**Table 2. ECU System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Valve, Pressure Relief	4820-00-073-8405		4
Valve, Charging	4130-01-300-6608		2
Switch, High Temperature	5930-00-357-6090		6
Motor, Condenser	6105-01-469-2131		4
Motor, Evaporator	5105-01-469-2132		4
Compressor	4130-01-469-2160		12
Duct, Flexible-- 7 Ft	4720-00-255-9034		2
Duct, Flexible - 9 Ft	4720-00-255-9032		2
Dehydrator	4130-01-011-0543		12
Element, Heating	4540-00-518-1329		12
Circuit Breaker	5925-01-469-2482		6
Knob, ECU	5355-01-333-5121		6
Switch, Rotary	5930-01-469-1650		6
Switch, Thermostatic	5930-00-551-0158		6
Filter, Air	4130-01-469-1818		6
Pulley, Bushing (50hz Operation)	3020-01-333-3045		6
Pulley, Grooved	3020-01-305-7013		6
Relay, Time Delay	5946-01-469-1601		6
Switch, High Pressure	5930-01-469-1400		2
Relay, 3PDT	5945-00-534-7805		6
Relay, Electromagnetic, 240v	5945-01-469-1903		12
Relay, 3PST	5945-01-288-5630		18
Debris Screen	4130-01-415-7300		10
Fuse, Plug362F	5340-01-485-0689		4
V Belt	3030-00-809-7702		30
Bearing, Evaporator Fan	3030-01-146-8016		6

- a. Place items into bag made of barrier material and seal with tape.
- b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

**NOTE**

The General Purpose SSP is a split-pack. Some of the components will be packed into TRICON 11C and 11D. Refer to Field Packing System Support Kit, Part B, Type 11C in this WP, and Field Packing MWR Kit, Part A Type 11D in WP 0050 00.

3. Locate the General Purpose SSP consisting of the listed components and pack as follows:

**Table 3. General Purpose System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Lamp, Incandescent, 60w	6240-00-824-4675		24
Lamp, Fluorescent	6240-00-152-2987		24
Bed, Bunkable, Disc-O	7120-01-519-1117		6
Absorbent Material, Spill Cleanup	7930-00-269-1272		5
Slide Hammer, Ground Rod	5120-01-013-1676		2
Funnel	7240-00-404-9794		2
Electro-Mechanical Parts Kit	9999-01-471-5109		1
Wrench, Adjustable, 12 In Long, 1- <sup>5</sup> / <sub>16</sub> In Jaw	5120-00-264-3796		2
Wrench, Adjustable, 8 In Long, <sup>15</sup> / <sub>16</sub> In Jaw	5120-00-240-5328		2
Wrench, Pipe, 24 In Long, TYII, CLC	5120-00-277-1480		2
Thermometer, Self Indicating, Liquid	6685-00-889-7444		2
Filter Element, Fluid	4330-00-983-0998		10
Rope, Nylon, 3/8 In, 600 Ft	4020-00-968-1356		2
Kit, Faucet, Washer	4510-00-903-6378		2

- a. Place each 60W incandescent and fluorescent lamp into a bag made of three layers of cushioning material and secure in place with tape.
  - b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.
  - c. Disassemble and place bunkable disc-o bed into its canvas transport bag.
  - d. Place the absorbent spill cleanup material into a bag made of barrier material and secure with tape.
  - e. Pack the remaining general purpose system support kit items into a heat sealed bag made of barrier material. Secure with tape. Pack the items into a close fitting fiberboard box and seal with tape.
4. Locate the Waste Water Evacuation SSP consisting of the listed components and pack as follows:

**Table 4. Waste Water Evacuation Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Switch, Float, 13A, 120 V, 85 Degree Action	/1002719	(1nr45)	3
Fitting, Bulkhead, 2 In W/Gasket	/3773k46	(39428)	3
Fitting, Bulkhead, 3 In W/Gasket	/3773k47	(39428)	2
Valve, Ball, Polypropylene, 2 In	/4848k66	(39428)	2
Heater, Tank, 1500 W, 120 V 521g/88r Guard		(99006)	3
Clamp, Hose, Low Pressure, Type F, SAE#72	/54155k34	(39428)	10
Pump, Sewage, Submersible, 1/2 Hp, 230 Vac, 3 Phase	/J267	(3y232)	3
Contact, A9, 220 Vac	/V30-00431	(10190)	5
Circuit Breaker, 15 Amp, 240 Vac, 3-Phase	/V31-00117	(10190)	5
Relay, Overload, 3.5 – 5.0a, Ta25	/V32-00352	(10190)	5
Switch, 3 Position, Tw	/V34-00051	(10190)	5
Light, Pilot, Green, 230 Vac	/V34-00259	(10190)	5

- a. Place each item into a heat sealed bag made with barrier material.
- b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

5. Locate the M-80 Water Heater SSP consisting of the listed components and pack as follows:

**Table 5. M80 Water Heater Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Starter, motor	6110-01-013-6482		2
Photoelectric Cell	5980-01-145-7162		4
Fire Eye Tester	4940-01-025-5289		2
Transformer, Power	5950-00-627-6753		2
Relay, Electromagnetic, 115v	5945-01-155-8680		2
Control, Temperature	6685-01-357-7533		2
Holder, Electrode	5977-01-161-6680		1
Electrode Set	5977-00-708-3693		10
Control, Indicator	6695-01-496-4749		4
Circuit Card Assembly	5998-01-496-5834		4
Control, Flame Safeguard	4540-01-222-0993		4
Heater Element	4520-01-237-8038		2

- a. Place each item into a heat sealed bag made with barrier material.
  - b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.
6. Locate the Power Generation Equipment SSP consisting of the listed components and pack as follows:

**Table 6. Power Generation Equipment System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Interrupter, Ground Fault	5925-01-128-6284		4
Circuit Breaker, 20 Amp, Single Pole	5925-01-425-8682		5
Circuit Breaker, 100 Amp, 3 Pole	5925-01-425-8689		5
Circuit Breaker, 60 Amp, 3 Pole	5925-01-425-8670		5
Circuit Breaker, 40 Amp, 3 Pole	5925-01-425-8687		5
Connector, Plug, L2120-P	5935-01-136-4017		4
Receptacle, L2120-R/Connector Plug, Elect.	5935-01-122-3249		4
Receptacle, 5-15R	5935-00-211-1848		2
Waterproof Boot, Small, Shield, Electrical Connector	5935-01-107-5291		2
Waterproof Boot, Large Boot, Dust and Moisture Seal	5930-01-423-5769		2
Waterproof Cover, Small, Shield, Electrical Connector	5935-01-024-4275		6
Waterproof Cover, Large, Shield, Electrical Connector	5935-01-164-5238		6
Power Cable, Class L To Commercial, 20 Amp	6150-01-413-2235		5
Extension Cord, 25 Ft, 120v, GFCI	6150-01-413-9314		10
Cover, Electrical, Switch	5930-01-423-5775		4
Fuse, Cartridge	5920-00-280-4960		100
Plug, 5-15p	5935-01-005-3579		2
Connector, Plug, Electrical, L21-30p	5935-01-111-7195		2

- a. Place each item into a heat sealed bag made with barrier material.
  - b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.
7. Locate the 10k Refrigerator SSP consisting of the listed components and pack as follows:

**Table 7. 10k Refrigerator System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Belt, V	3030-01-423-8092		2
Belt, V	3030-00-160-8295		2
Tightener, Belt	4130-01-078-4285		1
Belt, V	3030-00-850-5830		2
Fuse Cartridge	5920-00-284-6787		10
Fuse Cartridge	5920-00-050-4970		5
Fuse Cartridge	5920-00-296-0454		5
Filter-Drier Refrigerant, 1/2 Flare Connection	4130-00-922-7083		2

- a. Place each item into a heat sealed bag made with barrier material.
  - b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.
8. Locate the 600 Cubic-Foot Reefer Box SSP consisting of the listed components and pack as follows:

**Table 8. 600 Cubic Foot Reefer Box System Support Component.**

Item	NSN/Part Number	CAGE	Qty
Strike Catch Clamp, 600 Cu-Ft Reefer	5340-01-105-3876		15

- a. Place each item into a heat sealed bag made with barrier material.
  - b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.
9. Locate the Meat Slicer SSP consisting of the listed components and pack as follows:

**Table 9. Meat Slicer System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Belt Drive	3030-01-260-4409		1
Capacitor/Bracket Assembly	5910-01-256-8778		1
Switch, Push	5930-01-256-8795		1

- a. Place each item into a heat sealed bag made with barrier material.
- b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

### NOTE

The Tent System SSP is a split-pack. Some of the components will be packed into TRICON 11C. Refer to Field Packing System Support Kit, Part B, Type 11C in this WP.



10. Locate the following components of the Tent System SSP and pack as described:

**Table 10. Tent System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Stand, Distribution Box, TEMPER	6110-01-242-6691		2
Pin, Tent, Steel, 18 In	8340-00-985-7461		200
Ridge Extender Assembly	8340-01-186-3008		10
Eave Extender Assembly	8340-01-186-3009		10
Strap, Webbing	8465-01-220-1419		20
Pin, Quick Release, W/Lanyard	5315-01-260-6624		50

- a. Locate the stand, distribution box, TEMPER. Place cushioning material over the ends of the stand and the distribution box mounting plate. Secure with tape.
- b. Retrieve or fabricate eight tent pin boxes in accordance with 9-1-0076 (81337) and place 25 each 18-inch steel tent pins into each box.
- c. Tack each corner of the top with a nail and secure with steel strapping.
- d. Place each ridge extender and eave extender assembly, as well as the straps, and quick release w/lanyard into a bag made of barrier material and secure with tape. Place items into original shipping boxes or replacement, close fitting fiberboard boxes and seal boxes with tape.

11. Locate the Electric Oven SSP consisting of the listed components and pack as follows:

**Table 11. Electric Oven System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Switch, Toggle, SPST	5930-01-187-9923		2
Switch, Toggle, DPST	5930-01-188-2320		2
Switch, Toggle, DPDT	5930-01-149-2976		2
Switch, Door	5930-01-113-5628		2
Coil Assembly, 208v	/342170-1	(28873)	1
Hi Limit Assembly	/346358-2	(55392)	2
Relay, Mercury	5945-01-274-9098		2
Shim, Door Strike	357877-1	(28873)	4
Motor, 1/3 Hp, 2 Speed, AC	6105-01-446-5534		1
Door Strike	/358542-2	(28873)	4
Contact, 3-Pole	6110-01-469-6490		2
Buzzer, 230v	6350-01-445-9977		1
Thermostat	/411506-3	(28873)	2
Timer, 200-240	6645-01-446-1994		
Catch, Door	/411794-1	(28873)	2
Fan, Cooling	/415207-2	(28873)	1
Fuse Cartridge, 15 Amp, 300v	5920-01-123-5836		5

- a. Place each item into a heat sealed bag made with barrier material.
- b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

12. Locate the 6-Gallon Steam Kettle SSP consisting of the listed components and pack as follows:

**Table 12. 6-Gallon Steam Kettle Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Potentiometer, Remote	/855254	(89565)	1
Valve, Relief, 50 PSI	/881980	(89565)	1
Liquid Level Control	/881960	(89565)	1
Gasket, Element	/840501	(89565)	1
Switch, Power, Steam Kettle	7310-01-148-9363		1
Switch, Interlock	/881971	(89565)	1
Contactator	/881975	(89565)	1
Probe	/881981	(89565)	1
Controller, Temperature	/881993	(89565)	1
Sensor, Temperature	/881994	(89565)	1

- a. Place each item into a heat sealed bag made with barrier material.
- b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

13. Locate the Griddle System SSP consisting of the listed components and pack as follows:

**Table 13. Griddle System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Thermostat, Griddle	6685-01-221-9159		2
Element, 240v, 8kw	4540-01-277-5805		2
Heating Element, 208v	5440-01-210-2695		2
Knob, Thermostat, Griddle	/824277	(89565)	2
Light, Indicator, Griddle	/824324-1	(89565)	2

- a. Place each item into a heat sealed bag made with barrier material.
- b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

14. Locate component of the Tilt Griddle SSP consisting of the listed components and pack as follows:

**Table 14. Tilt Griddle System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Fuse, 1a	7310-01-468-9773		10
Contactator	406567	(35550)	1
Pilot Light, Red	7310-01-468-9765		1
Pilot Light, Amber	7310-01-468-9762		1
Thermostat, Prime Control	7310-01-468-9772		1
Knob, Thermostat	/407567d	(35550)	1
Thermostat, Hi-Limit	7310-01-468-9771		1
Switch, Toggle	5930-01-469-1185		1
Heater Strip	7310-01-468-9775		6

- a. Place each item into a heat sealed bag made with barrier material.
- b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

15. Locate the 20-Gallon Steam Kettle SSP consisting of the listed components and pack as follows:

**Table 15. 20-Gallon Steam Kettle System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Fuse, 3 Amp, 208v	5920-01-495-6085		5
Pilot Light	3895-01-121-6391		5
Element, Heater, 208v	/008852	(26465)	5
Thermostat	6685-00-179-4963		5
Contactora, Magnetic	6110-01-381-7014		10

- a. Place each item into a heat sealed bag made with barrier material.
- b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

16. Locate the 20-Gallon Steam Kettle SSP consisting of the listed components and pack as follows:

**Table 16. 20-Gallon Steam Kettle System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Thermostat	Ste-E2-1	(55392)	1
Low Water Cut Off	Ste-E2-12	(55392)	2
Heater Element	Ste-E2-2	(55392)	2

- a. Place each item into a heat sealed bag made with barrier material.
- b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

17. Locate the Coffee Urn SSP consisting of the listed components and pack as follows:

**Table 17. Coffee Urn Support Component.**

Item	NSN/Part Number	CAGE	Qty
Thermostat, Coffee Urn	/504001	(02594)	1

- a. Place each item into a heat sealed bag made with barrier material.
- b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

18. Locate the 20-Gallon Steam Kettle SSP consisting of the listed components and pack as follows:

**Table 18. 20-Gallon Steam Kettle System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Packing, Preformed, O-Ring	5330-00-612-3916		8
Gasket, Bowl, Standard	5330-00-612-3917		8
Impeller, Bowl, Standard	7310-01-170-3504		2
Spray Tube, 5 Gallon Bowl	4710-01-242-2315		4
Motor, Pump	6105-01-331-1064		1
Bearing, Sleeve	3120-01-267-0146		4

- a. Place each item into a heat sealed bag made with barrier material.
- b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

**Packing Procedures or TRICON Type 11B**

The following packing materials and other items are required to pack TRICON 11B:

**Table 19. TRICON Type 11B Packing Materials.**

Item	Qty
Pad, energy dissipating, 3-inch thick (honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inch x 6-inch x 75 3/4-inch	3
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Plywood, 3/4-In	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Steel Strapping, 1/2-inch, ASTM-D-3953	As required

Use the following procedures to install the shelf and pack twelve footlockers into TRICON Type 11B:

1. Locate TRICON with "ADMIN/MWR SYSTEM SUPPORT PACKAGE PART A CO. TYPE 11B..." stenciled on the left door
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of 3/4 inch plywood on the floor of the TRICON.
4. Locate three each container, reusable, bulk equipment, small. Work the barrel bolt mechanisms on each container proper functioning. Line each the sides and floor of each container with a minimum of two layers of fiberboard. Cut the fiberboard so that It will bend with the door on the container when the door is opened.
5. Into the reusable bulk equipment container marked "11B BIN 1 of 3", pack the following SSP, using fiberboard and/or honeycomb filler as required to create a tight pack:

**Table 20. Container 11B BIN #1 of 3 SSP Contents.**

Item	Part Number	CAGE	Qty
125-GPM Pump	9-1-0683	81337	1
Waste Water Evacuation	9-1-0718	81337	1
M-80 Water Heater	9-1-0674	81337	1
Power Generation and Electrical Equipment	9-1-0672	81337	1
Tent, TEMPER	9-1-0645	81337	Note

Note: Items packed in paragraph 10 of Field Packing System Support Kit, Part A, Type 11B, above.

6. Into the reusable bulk equipment container marked "11B BIN 2 of 3", pack the following SSP, using fiberboard and/or honeycomb filler as required to create a tight pack:

**Table 21. Container 11B BIN #2 of 3 SSP Contents.**

Item	Part Number	CAGE	Qty
Environmental Control Unit	9-1-0676-1	81337	1
Tilt Griddle	9-1-0644-1	81337	1

**Table 21. Container 11B BIN #2 of 3 SSP Contents - Continued.**

Item	Part Number	CAGE	Qty
Electric Oven	9-1-0679-1	81337	1
10k Reefer Unit, Mechanical	9-1-0684-1	81337	1
General Purpose (Electromechanical Parts Kit Only)	9-1-0638-1	81337	1

7. Into the reusable bulk equipment container marked "11B BIN 3 of 3", pack the following SSP, using fiberboard and/or honeycomb filler as required to create a tight pack:

**Table 22. Container 11B BIN #3 of 3 SSP Contents.**

Item	Part Number	CAGE	Qty
600 Cu Ft Reefer Box	9-1-0671-1	81337	1
Meat Slicer	9-1-0673-2	81337	1
Steam Kettle, 20 Gallon	9-1-0648-1	81337	1
Steam Table	9-1-0646-1	81337	1
Coffee Urn	9-1-0681-1	81337	1
Beverage Dispenser	9-1-0682-1	81337	1
Steam Kettle, 6 Gallon	9-1-0647-1	81337	1
Griddle	9-1-0677-1	81337	1
General Purpose	9-1-0638-1	81337	Note

Note: Items packed in paragraph 3 of Field Packing System Support Kit, Part A, Type 11B, above, except electromechanical parts kit.

8. Place one layer of fiberboard material over the top of the components.
9. Retrieve, or fabricate a plywood cover as shown in 9-1-0758 (81337). Place the cover on the container with cleats facing up. Strap down with steel banding straps.
10. Install two each tiedown straps on the rear vertical uprights at a height that is approximately 3 to 4-Inches lower than the three stacked containers. Make sure that the ratchet end of the strap will connect to the front of the Container. Position the straps so that they are out of the way while loading the reusable containers.
11. Place reusable container #2 on top of #3. Place reusable container #1 on top of #2. Using a forklift, place the stacked containers inside the TRICON.
12. Cross the previously attached tiedown straps and attach to the bars in the front of the container (used to hold the 2-inch x 6-inch Boards). Ensure the straps are not caught up on any obstruction and are properly tightened.
13. Place three each 2-inch x 6-inch x 75<sup>3</sup>/<sub>4</sub>-inch lumber braces in front of the containers to secure contents, as shown.
14. Install blocking and bracing as required to secure the contents inside the TRICON. Blocking, bracing, fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.

- Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.

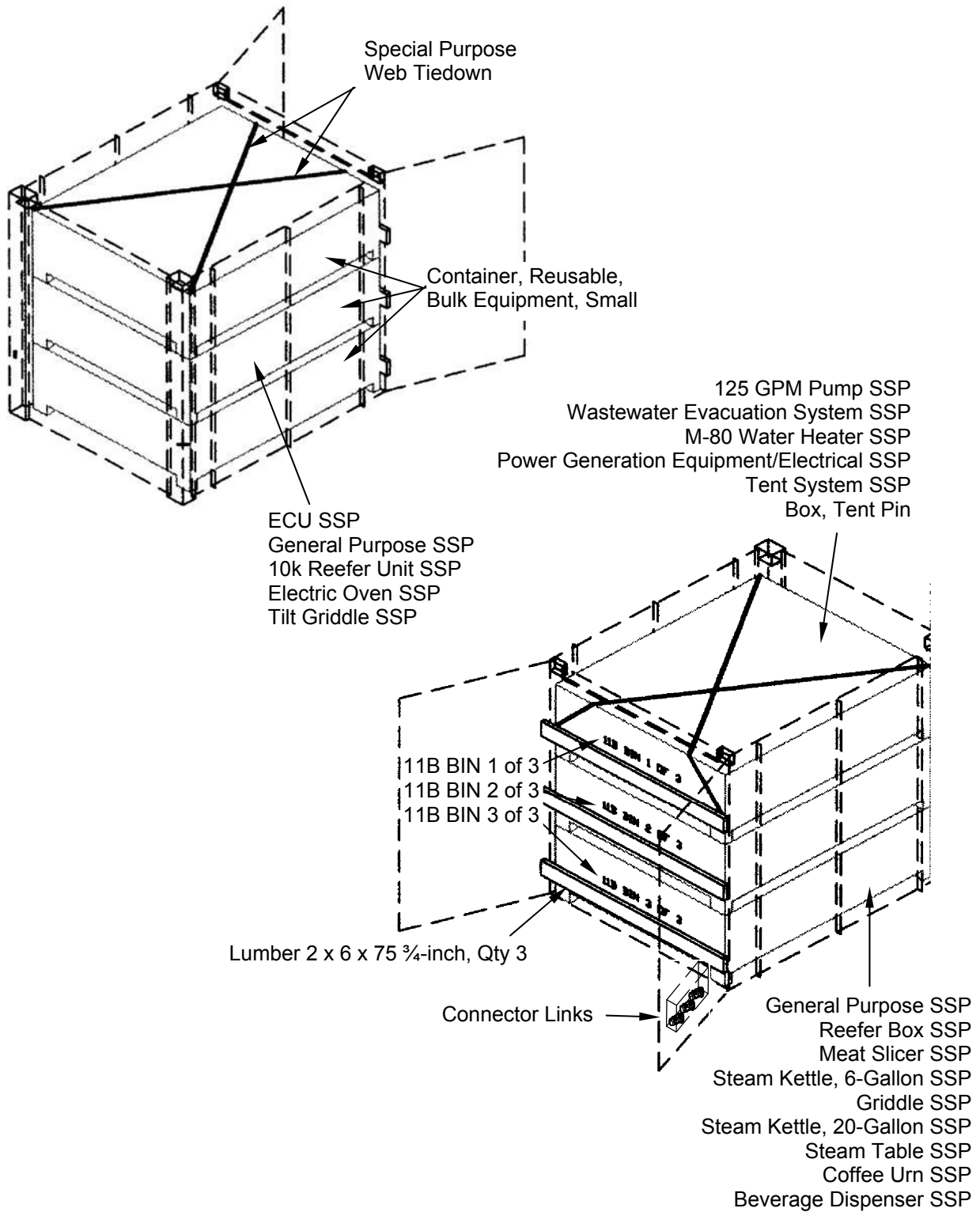


Figure 1. Field Packing System Support Package Part A Type 11B.

**FIELD PACKING SYSTEM SUPPORT KIT, PART B, TYPE 11C**

This paragraph provides information to pack equipment into TRICON Type 11C. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON, Type 11C. Reusable Bulk Equipment Containers (Small), packaging, blocking, bracing, tiedowns, and dunnage material, as applicable, retained during unpacking will be needed to repack equipment for storage or shipment.

**Pertinent References:**

For a complete inventory of TRICON Type 11C refer to Table 2, WP 0033 00.

For illustrations of other administration equipment refer to WP 0033 00 and WP 0095 00.

For information and illustrations of PDISE-M100 and associated components refer to TM 9-6150-226-13.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

**NOTE**

When assembling the component parts of the various system support packages, pack only new, unused parts. Dispose of damaged parts locally. Not all parts listed for each system support package may be available for packing due to usage. Use filler or dunnage material for empty spaces.

1. Locate the Containerized Batch Laundry (CBL) SSP consisting of the listed components and pack as follows:

**Table 23. Containerized Batch Laundry (CBL) System Support Package.**

Item	Part Number	CAGE	Qty
Screen, Lint	44063601	(59618)	2
Valve, Fill, Cold/Hot Water, 2 Way, 220V	9001377	(59618)	1
Door Handle Stop	9001467	(59618)	1
Door Handle	9001481	(59618)	1
V-Belt, Basket/Motor	9001569	(59618)	2
Resister, Supply Inlet Flow, 3.5l/Min	F380119	(59618)	1
Valve, Main Sewer Drain	F380619	(59618)	1
Valve, Reuse Fill/Drain, 2-In, NC, 0.18A, J-Lip, 220V	F380632	(59618)	1
Valve, Inlet, Supply, 3 Way, 240V, 50/60 Hz	Fo381737-00	(59618)	1
V-Belt, Cylinder	M412090	(59618)	2
V-Belt, Drive	M412981	(59618)	1
Fuse, 250V, 2A	M413118	(59618)	2
Fuse, 1.25A	M413103	(59618)	2
Fuse, 3.5A	M414232	(59618)	2

- a. Place items into bag made of barrier material and seal with tape.
  - b. Place items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.
2. Locate the Water Distribution and Plumbing SSP consisting of the listed components and pack as follows:

Table 24. Water Distribution and Plumbing System Support Package.

Item	NSN/Part Number	CAGE	Qty
Metering Pump	4320-01-469-7141		1
Water Manifold	4730-00-842-0850		1
Switch, Pressure	5930-00-084-1518		2
Gasket, Flange, 4 In	5330-01-141-1864		10
Hose Assembly, Nonmetallic, Garden	4720-00-729-5334		5
Hose Assembly, Potable Water, QDISC, Cam-Lock, 1-1/2 In X 20 Ft, M X F	/9-1-0781-36	(81337)	4
Hose Assembly, Potable Water, QDISC, Cam-Lock, 4 In X 20 Ft, M X F	/9-1-0781-56	(81337)	4
Tee, Straight, 1-1/2 In	4730-01-439-9316		1
Nipple, Close, 1-1/2 In	4730-01-439-5790		2
Nipple, Brass, 1/4 In X 2 In Long	4730-00-196-1972		2
Clamp, Hose, Low Pressure, Type F, SAE #10	4730-01-479-1934		20
Clamp, Hose, Low Pressure, Type F, SAE #20	4730-01-191-9701		20
Clamp, Hose, Low Pressure, Type F, SAE #24	4730-00-908-3193		30
Clamp, Hose, Low Pressure, Type F, SAE #40	4730-00-277-7133		20
Clamp, Hose, Low Pressure, Type F, SAE #64	4730-00-274-5828		20
Valve, Gate, Flange, 4 In	4820-01-159-0439		2
Valve, Angle	4820-00-887-9519		5
Valve, Gate, Threaded, 1-1/2 In	4820-01-469-5814		2
Valve, Ball, 1/4 In	4820-01-161-0911		2
Valve, Check, 1-1/2 In	4820-00-200-0745		2
Drain Cock, Boiler, Spec Cont Drawing	4820-01-469-5785		1
Hypochlorination Conversion Plate	4610-01-469-6138		1
Spare Parts Kit, Hypochlorinator	4320-01-469-7142		2
Coupling Half, Q-Disc, Cam Lock, Male, IPT Type I, 1/2 In, Al	4730-01-020-7204		4
Coupling Half, Q-Disc, Cam Lock, Male, IPT Type I, 3/4 In, Al	4730-01-020-4762		4
Coupling Half, Q-Disc, Cam Lock, Male, IPT Type I, 1 In, Al	4730-00-141-3195		4
Coupling Half, Q-Disc, Cam Lock, Male, IPT Type I, 1-1/4 In, Al	4730-01-073-5852		4
Coupling Half, Q-Disc, Cam Lock, Male, IPT Type I, 1-1/2 In, Al	4730-00-948-1719		4
Coupling Half, Q-Disc, Cam Lock, Male, Hose Shank, Type II, 1/2 In, Brass	4730-01-139-4511		4
Coupling Half, Q-Disc, Cam Lock, Male, Hose Shank, Type II, 3/4 In, Al	4730-01-231-2789		4
Coupling Half, Q-Disc, Cam Lock, Male, Hose Shank, Type II, 1 In, Al	4730-01-164-9254		4
Coupling Half, Q-Disc, Cam Lock, Male, Hose Shank, Type II, 1-1/4 In, Al	4730-00-948-1720		4
Coupling Half, Q-Disc, Cam Lock, Male, Hose Shank, Type II, 1-1/2 In, Al	4730-00-360-0592		4
Coupling Half, Q-Disc, Cam Lock, Male, EPT Type Iii, 1/2 In, Al	4730-01-051-0322		4
Coupling Half, Q-Disc, Cam Lock, Male, EPT Type III, 3/4 In, Al	4730-01-347-0348		4
Coupling Half, Q-Disc, Cam Lock, Male, EPT Type III, 1 In, Al	4730-00-084-7435		4
Coupling Half, Q-Disc, Cam Lock, Male, EPT Type III, 1-1/4 In, Al	4730-01-374-7180		4
Coupling Half, Q-Disc, Cam Lock, Male, EPT Type III, 1-1/2 In, Al	4730-00-360-0589		4
Coupling Half, Q-Disc, Cam Lock, Female, IPT Type V, 1/2 In, Al	4730-01-143-1421		4



**Table 24. Water Distribution and Plumbing System Support Package - Continued.**

Item	NSN/Part Number	CAGE	Qty
Coupling Half, Q-Disc, Cam Lock, Female, IPT Type V, 3/4 In, Al	4730-01-225-6908		4
Coupling Half, Q-Disc, Cam Lock, Female, IPT Type V, 1 In, Al	4730-01-042-5265		4
Coupling Half, Q-Disc, Cam Lock, Female, IPT Type V, 1-1/4 In, Al	4730-01-020-4763		4
Coupling Half, Q-Disc, Cam Lock, Female, IPT Type V, 1-1/2 In, Al	4730-00-980-9411		4
Coupling Half, Q-Disc, Cam Lock, Female, Hose Shank, Type VI, 1/2 In, Al	4730-01-238-0794		4
Coupling Half, Q-Disc, Cam Lock, Female, Hose Shank, Type VI, 3/4 In, Al	Ms 27025-3	(96906)	4
Coupling Half, Q-Disc, Cam Lock, Female, Hose Shank, Type VI, 1 In, Al	4730-01-223-4931		4
Coupling Half, Q-Disc, Cam Lock, Female, Hose Shank, Type VI, 1-1/4 In, Al	4730-00-948-1721		4
Coupling Half, Q-Disc, Cam Lock, Female, Hose Shank, Type VI, 1-1/2 In, Al	4730-00-948-1722		4
Coupling Half, Q-Disc, Cam Lock, Female, EPT Type VII, 1/2 In, Al	4730-01-347-8545		6
Coupling Half, Q-Disc, Cam Lock, Female, EPT Type VII, 3/4 In, Al	4730-01-214-3621		6
Coupling Half, Q-Disc, Cam Lock, Female, EPT Type VII, 1 In, Al	4730-00-360-0710		4
Coupling Half, Q-Disc, Cam Lock, Female, EPT Type VII, 1-1/4 In, Al	4730-01-202-7205		4
Coupling Half, Q-Disc, Cam Lock, Female, EPT Type VII, 1-1/2 In, Al	4730-00-203-1010		4
Coupling Half, Q-Disc, Cam Lock, Cap, Type IX, 2-1/2 In, Al	4730-01-019-7432		2
Coupling Half, Q-Disc, Cam Lock, Cap, Type IX, 1/2 In, Al	/Ms 27028-1	(96906)	4
Coupling Half, Q-Disc, Cam Lock, Cap, Type IX, 3/4 In, Al	4730-01-347-0349		4
Coupling Half, Q-Disc, Cam Lock, Cap, Type IX, 1 In, Al	4730-00-929-0791		4
Coupling Half, Q-Disc, Cam Lock, Cap, Type IX, 1-1/4 In, Al	4730-00-485-5055		4
Coupling Half, Q-Disc, Cam Lock, Cap, Type IX, 1-1/2 In, Al	4730-00-869-5246		4
Coupling Half, Q-Disc, Cam Lock, Plug, Type X, 1/2 In, Al	4730-01-257-1508		4
Coupling Half, Q-Disc, Cam Lock, Plug, Type X, 2-1/2 In, Al	4730-01-254-0217		4
Coupling Half, Q-Disc, Cam Lock, Plug, Type X, 4 In, Al	4730-00-640-6188		4
Coupling Half, Q-Disc, Cam Lock, Plug, Type X, 3/4 In, Al	4730-01-212-5809		4
Coupling Half, Q-Disc, Cam Lock, Plug, Type X, 1-1/4 In, Al	4730-01-020-2078		4
Coupling Half, Q-Disc, Cam Lock, Plug, Type X, 1-1/2 In, Al	4730-00-823-5316		4
Gasket, Coupling Half, Q-Disc, Cam Lock, 1/2 In	5330-01-138-2108		12
Gasket, Coupling Half, Q-Disc, Cam Lock, 3/4 In	5330-01-242-2713		12
Gasket, Coupling Half, Q-Disc, Cam Lock, 1 In	5330-00-088-9167		12
Gasket, Coupling Half, Q-Disc, Cam Lock, 1-1/4 In	5330-00-551-4572		12
Gasket, Coupling Half, Q-Disc, Cam Lock, 1-1/2 In	5330-00-360-0595		24
Gasket, Coupling Half, Q-Disc, Cam Lock, 2 In	5330-00-612-2414		12
Gasket, Coupling Half, Q-Disc, Cam Lock, 2-1/2 In	5330-00-075-3268		12
Gasket, Coupling Half, Q-Disc, Cam Lock, 4 In	5330-00-899-4509		12
Reducer, Coupling Half, Q-Disc, Cam Lock, 2 In MC X 1-1/2 In FC, Al	4730-00-951-3298		2
Reducer, Coupling Half, Q-Disc, Cam Lock, 2 In FC X 4 In MC, Al	4730-01-186-0821		2
Reducer, Coupling Half, Q-Disc, Cam Lock, 2 In FC X 1-1/2 In MC, Al	4730-00-951-3295		4

- a. Prepare hose assembly, potable water, QDISC, Cam-Lock, 1½-inch x 20-foot, M x F, hose assembly, Potable water, QDISC, Cam-Lock, 4-inch x 20-foot, M x F, and hose assembly, nonmetallic, garden by wrapping each hose coupling in two layers of cushioning material. Secure in place with tape. Then wrap each coupling in barrier material and secure in place with tape.
- b. Place the remaining water distribution and plumbing SSP items individually into a bag made of barrier material and seal with tape.
- c. Place the items into original fiberboard shipping container or a new, close fitting fiberboard box and seal with tape.

**NOTE**

The General Purpose SSP is a split-pack. Some of the components will be packed into TRICON 11B and 11D. Refer to Field Packing System Support Kit, Part A, Type 11B in this WP, and Field Packing MWR Kit, Part A Type 11D in WP 0050 00.

3. Locate the following components of the General Purpose SSP and pack as described:

**Table 25. General Purpose System Support Package Components.**

Item	NSN/Part Number	CAGE	Qty
Chair, Folding, Steel	7105-00-269-8463		5
Nozzle, Garden Hose	4730-00-595-1103		1
Special Purpose Web, Tiedown	3990-01-204-3009		25
Reducer, QDISC, Cam-Lock, 4 In FC X 2 In MC, Al	4730-01-064-0560		4
Reducer, QDISC, Cam-Lock, 2 In FC X 1-1/2 In MC, Al	4730-00-951-3295		4
Drum, Shipping And Storage, Steel, 55-Gal	8110-00-597-2353		5
Electrical Distribution System, PDISE, M40	6150-01-307-9446		4
Lead, Electrical, Grounding Cable	6150-01-392-4191		9
Power Cable Assembly, Tee, 20A	6150-01-214-0135		3
Cable Assembly, Power, 60-A/100-Foot	6150-01-220-5588		13
Extension Cord, 120V, 25 Foot, GFCI	6150-01-413-9314		14
Rod, Ground, Sectional, TY III, CLB, with attachments	5975-00-878-3791		48/

- a. Stack the folding chairs in one group of three and one group of two. Separate each chair with protective paper.
- b. Place each group of chairs inside the original shipping box, or a new, tightly fitting fiberboard box with exterior dimensions not to exceed 18-inches long x 11-inches wide x 39½-inches high. Close the boxes with tape.
- c. Prepare three power cable assembly, Tee, 20-A, thirteen power cable assemblies 60-A/100-foot, fourteen extension cords, 120V/25-foot, and nine lead, electrical, grounding cable by wrapping the connectors on each end of the cables in two layers of cushioning material. Secure in place with tape.
- d. Wrap each connector end in barrier material and secure in place with tape.
- e. Neatly coil each assembly and secure with twine or cable ties.
- f. Place three each coiled power cable assemblies 20-A Tee, in their original shipping box, or a new fiberboard container with outer dimensions of 32½-inches long x 32½-inches wide x 9-inches high. Close box with tape.

- g. Place two each coiled power cable assemblies, 60-A/100-foot in their original shipping box, or a new fiberboard container with outer dimensions of 32½-inches long x 32½-inches wide x 9-inches high. Place a fiberboard liner against the inside walls of the box. Close box with tape.
- h. Pack the sectional ground rod, Type III, Class B, consisting of three rod sections, one driving stud, one clamp, 1/0-8, one cable, stranded, copper, bare, 6 AWG x 72-inches, and one ground terminal into its original shipping box, or a new close fitting fiberboard container with dimensions of 39½-inches long x 2¾-inches wide x 2-inches high. Close box with tape.
- i. Locate the following parts of the Electrical Distribution System, PDISE, M-40:

**Table 26. PDISE M-40 Components.**

Item	NSN/Part Number	Qty
Electrical Distribution Center, PDISE M40	6150-01-377-4826	1
Cable, Pigtail, 40/60-A/4-foot	6150-01-256-6301	1
Cable Assembly, Service, 40/60-A/100-foot	6150-01-247-4779	1
Cable, Extension, 20-A/50-foot,	6150-01-250-3643	3
Cable, Extension, 20-A/25-foot	6150-01-250-0044	3
Box, Receptacle, 20-A/120V	6150-01-251-9125	1
Strap, Cable Carrying	6150-01-256-6299	16
Container, Transit and Storage	6150-01-256-6298	1
Cable, Light Set, 25-Outlet	6150-01-253-4290	2
Technical Manual, PDISE	TM 9-6150-226-13	1

- j. Place technical manual into a bag made of barrier material. Seal with tape.
- k. Install dust covers on all connectors of the PDISE. Wrap each connector with cushioning, and then barrier material, securing each wrap with tape.
- l. Place entire PDISE into a bag made of barrier material and secure with tape.
- m. Place bagged PDISE into original shipping box, or a new, close-fitting fiberboard container. Place technical manual into this box as well. Close box with tape.
- n. Locate the following, additional components of the General Purpose SSP:

**Table 27. Additional Components of General Purpose SSP.**

Item	NSN/Part Number	Qty
Cable, Pigtail, 100-A/4-foot	6150-01-256-6301	3
Cable Assembly, Service, 40/60-A/100-foot	6150-01-247-4779	1
Cable, Extension, 20-A/50-foot,	6150-01-250-3643	1
Cable, Extension, 20-A/25-foot	6150-01-250-0044	2
Cable, Light Set, 25-Outlet	6150-01-253-4290	2

- o. Wrap the connectors on each end of the cables in two layers of cushioning material and secure in place with tape.
- p. Wrap each connector end in barrier material and secure with tape.
- q. Coil each assembly and secure with a cable carrying strap.
- r. Locate the box receptacle, 20-A/120V and wrap in two layer of cushioning material. Tape close.
- s. Wrap the item into a bag made of barrier material. Secure with tape.

- t. Place the cables, receptacle box and the transit and storage container in a close-fitting fiberboard container. Close the container with tape.
- u. Wrap the remaining items of the General Purpose SSP (except the 55-Gallon Shipping and Storage Drum) into barrier material and secure with tape.
- v. Pack the lead, electrical, grounding cable, extension cord, 120V/25-foot, GFCI, as well as the nozzle, garden hose, reducer, QDISC, cam-lock, 4-inch FC x 2-inch MC, reducer, QDISC, Cam-Lock, 2-inch FC x 1½-inch MC into a close-fitting fiberboard box. Close the box with tape.
- w. Pack the 25 special purpose tiedown straps into a close-fitting fiberboard box and secure with tape.

**NOTE**

The Tent System SSP is a split-pack. Some of the components are packed into TRICON 11B. Refer to Field Packing System Support Kit, Part A, Type 11B in this WP.

- 4. Locate the following components of the Tent System SSP and pack as described:

**Table 28. Components of Tent SSP.**

Item	NSN/Part Number	CAGE	Qty
Pin, Tent, Wood, 24-inch	8340-00-261-9751		110
Plenum, Endwall, 16-foot Temper	8340-01-186-3035		7
Repair Kit, Tentage	8340-00-262-5767		4

- a. Locate 110 wood tent stakes. Stack into five bundles of twenty each, and one bundle of ten each. Secure bundles with tape.
- b. Place the endwall plenum and tentage repair kit each into a bag made of barrier material. Secure with tape.
- c. Place each of the items into a close-fitting fiberboard box and seal with tape.

**Packing Procedures for TRICON Type 11C**

The following packing materials and other items are required to pack TRICON 11C:

**Table 29. TRICON Type 11C Packing Materials.**

Item	Qty
Pad, energy dissipating, 3-inch thick (honeycomb), NSN 1670-00-753-3928, as required	As required
Lumber, 2-inch x 6-inch x 75 ¾-inch	3
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Plywood, ¾-In	As required
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
ASTM-D4727; Corrugated and Solid Fiberboard Sheet Stock (Container Grade)	As required

Use the following procedures to install the shelf and pack twelve footlockers into TRICON Type 11C:

- 5. Locate TRICON with “ADMIN/MWR SYSTEM SUPPORT PACKAGE PART B CO. TYPE 11C...” stenciled on the left door.

6. Open doors and remove everything from container. Ensure interior is clean and dry.
7. Place one layer of 3/4-inch plywood on the floor of the TRICON.
8. Place a double layer of fiberboard material against the rear wall, and back quarter of the TRICON side walls.
9. Locate four special purpose web tiedown. Connect the non-ratcheted end of two straps to the uppermost tiedown loops at the rear vertical shelf support. Place strap ends out of the way.
10. Locate eight power cable assemblies, 60-A/100-foot, packed into four boxes. Place on floor of TRICON against rear wall as shown. Fill in between boxes with honeycomb material as required.
11. Locate five drum shipping and storage, steel, 55-Gallon. Carefully stack, as shown along the rear wall of the TRICON container.
12. Locate the fiberboard box containing the lead, electrical, grounding cable, extension cord, 120V/25-foot GFCI, nozzle, garden hose, reducer, QDISC, Cam-Lock, 4-inch FC x 2-inch MC, reducer, QDISC, Cam-Lock, 2-inch FC x 1 1/2-inch MC. Place the box on top of the drum shipping and storage, steel, 55-gallon, as shown.
13. Locate five power cable assemblies 60-A/100-foot packed into three boxes and locate three power cable assemblies, Tees, 20-A packed into one box.
14. Stack the boxes on end in front of the drum shipping and storage, steel, 55-Gallon, as shown.
15. Place fiberboard material against the cable boxes and secure with two special purpose web, tiedowns, crossed in front of the fiberboard material. Fold the loose ends of the tiedown straps and secure with nylon cable zip ties.
16. Locate two container, reusable, bulk equipment, half size. Work each barrel bolt mechanism on the container to ensure proper functioning.
17. Line the sides and floor of each container with a minimum of two layers of fiberboard. Cut the fiberboard so that it will bend with the door on the container when the door is opened.
18. Locate one container, reusable, bulk equipment, half size. Pack the components of the water distribution and plumbing system SSP, and containerized latrine system SSP inside. Use fiberboard and/or honeycomb filler as required creating a tight pack.
19. Locate one container, reusable, bulk equipment, half size. Pack the components of the tent system SSP packed in paragraph 4 of Field Packing System Support Kit, Part B, Type 11C, above, and the following components of the general purpose system SSP inside:

**Table 30. Components to be packed into Reusable Container #2.**

Item	NSN/Part Number	CAGE	Qty
Chair, Folding, Steel	7105-00-269-8463		5
Electrical Distribution System, PDISE, M-40	6150-01-307-9446		4
Rod, Ground, Sectional, Type III, Class B, with Attachments	5975-00-878-3791		48
Special Purpose Web, Tiedown	3990-01-204-3009		25

20. Use fiberboard and/or honeycomb filler as required creating a tight pack. Mark the container as reusable container #2.
21. Place one layer of fiberboard material over the top of the components in the reusable containers.

22. Retrieve or fabricate a plywood cover (9-1-0758 (81337)). Place the cover on the container with cleats facing up. Strap down with steel banding straps.
23. Using a forklift, place reusable container #1 on top of container #2.
24. Place then two stacked containers inside the TRICON and secure the containers by crossing the two remaining special purpose web, tiedown straps over them. Attach the straps to the tiedown loops in the front corners of the container. Make sure that the straps are not caught up on any obstruction and are properly tightened. Fold loose end of strap and secure with nylon cable zip ties.
25. Place two each 2-inch x 6-inch x 75<sup>3</sup>/<sub>4</sub>-inch pieces of lumber in front of the containers, as shown.
26. Install blocking and bracing as required to secure the contents inside the TRICON. Blocking, bracing, fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.

27. Ensure that three TRICON connectors are located in the holder on the lower inside of the right hand TRICON door.

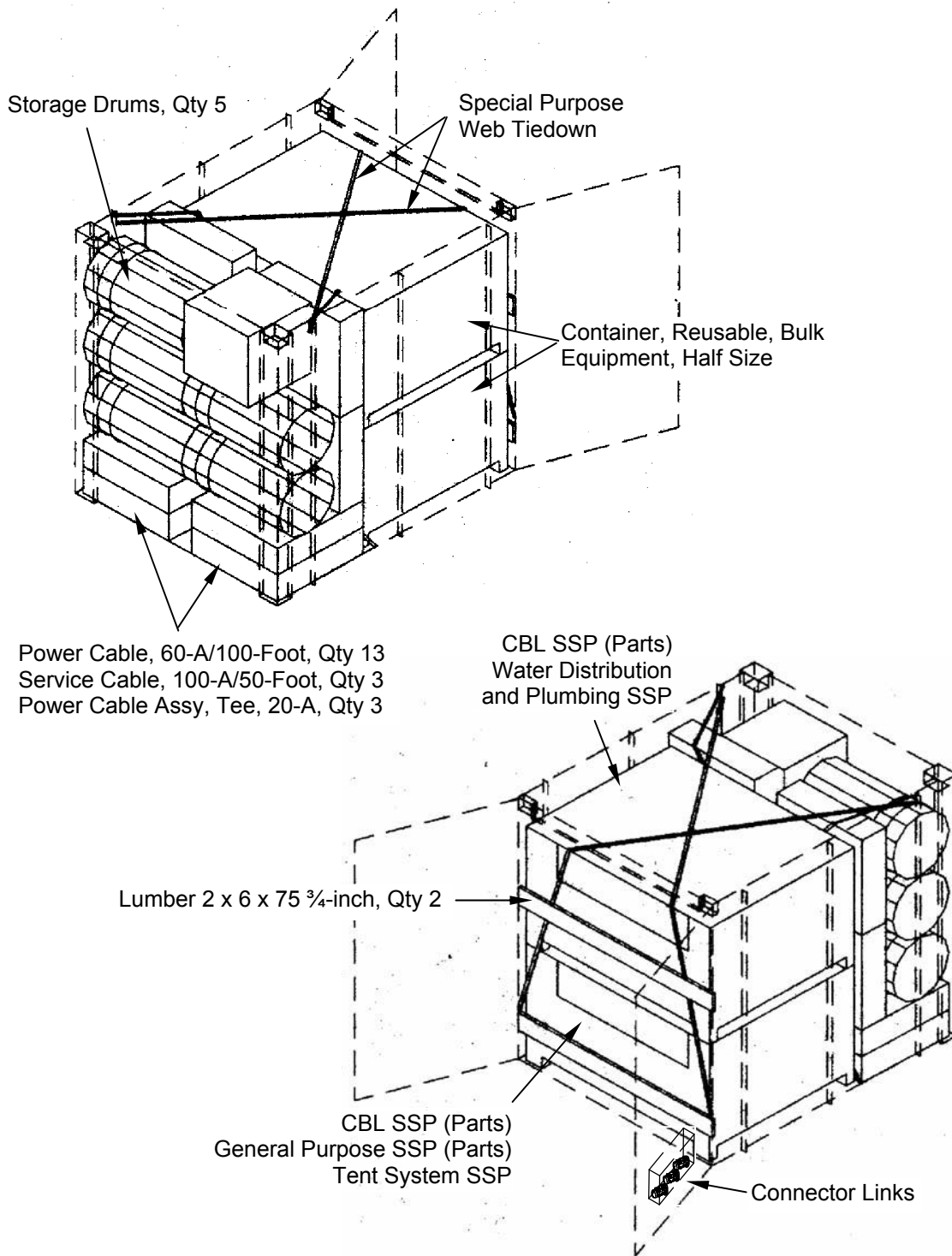


Figure 2. Field Packing System Support Package Part B Type 11C.

**PREPARATION FOR MOVEMENT OF ADMIN/MWR ECU KIT TYPE 12E**

This paragraph provides information to pack equipment into TRICON Type 12E. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON, Type 12E. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage, as applicable, retained during unpacking will be needed to repack equipment for storage or shipment.

**Pertinent References:**

For a complete inventory of TRICON Type 12E refer to Table 3, WP 0033 00.

For illustrations of the ECU refer to PREPARATION FOR MOVEMENT OF MWR/ADMINISTRATION ECU in this WP.

For illustrations of other administration equipment refer to WP 0033 00 and WP 0095 00.

For information and illustrations of PDISE-M100 and associated components refer to TM 9-6150-226-13.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

1. Locate fourteen each chairs, folding, steel. Stack chairs in three groups of four and one group of two.
2. Separate each chair with protective paper. Place each group of chairs inside a separate tightly fitting fiberboard box with exterior dimensions not to exceed 18-inches long x 11-inches wide x 39<sup>1</sup>/<sub>2</sub>-inches acceptable. If provided in the manufacturer's original box, this box should be reused if possible.
3. Where two chairs are packed in a four-chair box, pack adequate dunnage to prevent movement of the chairs within the box. Close boxes with tape.
4. Locate six each tables, folding, 6-foot, aluminum. Place each table inside manufacturer's original box if available, or a close fitting fiberboard container with the following outer dimensions: 75-inches long x 32<sup>1</sup>/<sub>2</sub>-inches wide x 9-inches high. Close box with tape.
5. Locate two each debris screens, air conditioning duct, one each Technical Manual, Force Provider (TM 10-5419-206-13) and one each Technical Manual, Force Provider (TM 10-5419-206-23P). Place each item in a separate bag made of barrier material. Seal bags with tape.

**NOTE**

Do not prepare used or soiled cleaning equipment such as brooms and mop heads for packing. Dispose of these items locally.

6. Locate one each (unused only) mop head. Place item in a bag made of barrier material. Seal Bag with tape.
7. Locate one each wringer, mop, size-small, Type-gear & rack. Pack mop wringer into original manufacturer's box, if available, or individual close fitting fiberboard container of appropriate size. Close box with tape.
8. Locate ten each footlockers. Place items prepared in 5 above into one footlocker. Place items prepared in 6 and 7 above into another footlocker. Fill empty spaces in footlocker with barrier paper.
9. Secure the lid of the footlockers packed above and the remaining eight (8) empty footlockers. Place each footlocker into an original manufacturer's box, if available, or a close fitting fiberboard box with exterior dimensions not to exceed 24-inches long x 21-inches wide x 13-inches high. Close boxes with tape.
10. Locate one each floormat, 32-foot. Roll floormat and wrap roll with tape.



11. Locate one each bucket, mop, steel, oval, 16-Quart, w/casters. Place mop bucket inside original manufacturer's box, if available, or a close fitting fiberboard container of appropriate size.
12. Locate one each shovel, round point, D-handle. Wrap shovel head with a minimum of two wraps of cushioning material and secure in place with tape.
13. Locate one each broom, upright (unused only). Wrap the broom head in plastic sheet and secure with tape.
14. Locate one each mop handle (unused only). Wrap each mop handle metal end with barrier material and secure in place with tape.
15. Locate one each electrical feeder system, PDISE-M100, consisting of the following components:

**Table 31. PDISE-M100 Components.**

Qty	Specification/PN	NSN	Nomenclature
1	13226/7029	6150-01-377-4827	Electrical Feeder Center, 100A
1	13226/7020	6150-01-256-6300	Cable, Pigtail, 100A, 4 Ft
2	13226/7024	6150-01-256-6304	Cable Assy, Service, 100A, 50 Ft
8	13226/5825	5340-01-256-6299	Strap, Cable Carrying
1	TM 9-6150-226-13	N/A	Technical Manual

- a. Locate one each copy of TM 9-6150-226-13. Place technical manual in bag of barrier material. Seal bag with tape.
- b. Locate the electrical feeder center. Ensure dust covers are installed onto connectors and lid is closed. Wrap each connector in a layer of cushioning material and a layer of barrier material. Secure each layer with tape.
- c. Construct a barrier bag approximately 27-inches wide x 27-inches long x 27-inches high. Place the unit in the bag and seal with tape. Place the bagged unit in a close fitting fiberboard container and secure with dunnage and cushioning as required. Place the technical manual in the fiberboard container. Close the container with tape.
- d. Locate two each cable assemblies, 100-A/50-foot, and one each cable, pigtail, 100-A/4-foot. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape.
- e. Coil each cable assembly into a neat and uniform coil having a diameter no greater than 26-inches. Secure each coil of cable assembly, service, 100-A/50-foot using four cable carrying straps. Tie off and secure the coil of the pigtail assembly with twine or cable ties.

**Packing Procedures for TRICON Type 12E**

The following packing materials and other items are required to pack TRICON 12E:

**Table 32. TRICON Type 12E Packing Materials.**

Item	Qty
Pad, energy dissipating, 3-inch thick (honeycomb), NSN 1670-00-753-3928, as required	As required
Lumber, 2 x 6 x 75- 3/4-inch	1
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Shelf shoring beam, NSN 9540-01-491-3804	4

**Table 32. TRICON Type 12E Packing Materials - Continued.**

Item	Qty
Shelf assembly, removable NSN 8145-01-503-4404	2
Lumber 2-inch X 6-inch	As required
Special purpose web tiedowns NSN3990-01-204-3009	4
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required

Use the following procedures to install the shelf and pack twelve footlockers into TRICON Type 12E:

1. Locate TRICON with “ADMIN/MWR ECU KIT; CO. TYPE 12E...” stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Install the rear two upper shelf supports where marked so that the distance from the floor to the shelf bottom is 74-inches.
4. Place one shelf on the supports, to the rear of the container. Install one layer of honeycomb dunnage between the knuckles at the rear of the container, above the shelf to provide a flush surface at the rear of the container, above the shelf.
5. Place four footlockers, on the shelf, all the way against the rear, left side of the container wall, forming two rows of two footlockers. Ensure that item markings are facing forward.
6. Locate one each rolled-up floormat, one each shovel, one each broom, and one each mop handle previously prepared. Place these items on the right side of the shelf, against the rear container wall, as shown.
7. Install front two shelf supports at the same height as the two previously installed, and place one shelf against the rear shelf to provide one level surface at the same elevation.
8. Place one footlocker with two ECU debris screens, one Technical Manual, Force Provider (TM 10-5419-206-13) and one Technical Manual, Force Provider (TM 10-5419-206-23P) as previously prepared, in front of the first two rows of footlockers against the left sidewall of the container. Ensure that item markings are facing forward.
9. Place one footlocker with one wringer, mop and one mop head, as previously prepared, in front of the first two rows of footlockers in the center, as shown. Ensure that item markings are facing forward.
10. Fill voids with honeycomb dunnage to ensure that items will not shift during transport. Install one 2-inch x 6-inch piece of lumber fitted to the dunnage in order to prevent forward movement of the boxes and dunnage on the shelf.
11. Locate ECU pallet previously assembled.
12. Locate four footlockers and place them on the right rear of the ECU pallet as shown.
13. Locate four boxes of chairs and place them on end on the left rear and left side of the ECU pallet as shown.
14. Locate one electrical feeder center and place it on top of chair boxes in the left rear corner of the ECU pallet as shown.
15. Locate two cable assembly, 100-A/50-foot and one each cable, pigtail, 100-A/4-foot. Place the items on the ECU skid in front of the chair boxes, left side of container as shown.

16. Locate one each mop bucket, 16-Quart and place it on the ECU pallet in front of the cable coils.
17. Locate two each special purpose web tiedowns and connect them together. Secure the items placed on the ECU pallet by placing the special purpose web around the items. Neatly fold end of tiedown strap and secure with nylon zip tie.
18. Locate two each special purpose web tiedowns and connect the un-ratcheted ends to the rear tiedown loops approximately three feet above the TRICON floor. Temporarily locate tiedown straps out of the way to facilitate loading of the ECU pallet into the TRICON.
19. Using a forklift, position the ECU pallet inside the TRICON. Block and brace between the pallet and TRICON side and rear walls as necessary to prevent side-to-side or lateral movement. Cross the straps over the ECUs and fasten the ratcheted ends to the tiedown loops at the front of the TRICON approximately two feet above the floor. Ensure that the straps are properly tightened, are not twisted, and/or caught up on any obstruction. Fold ends of tiedown straps and secure with nylon zip ties
20. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
21. Ensure that three TRICON connector links are located In the holder on the lower inside of the right hand container door.

22. Close and secure TRICON doors.

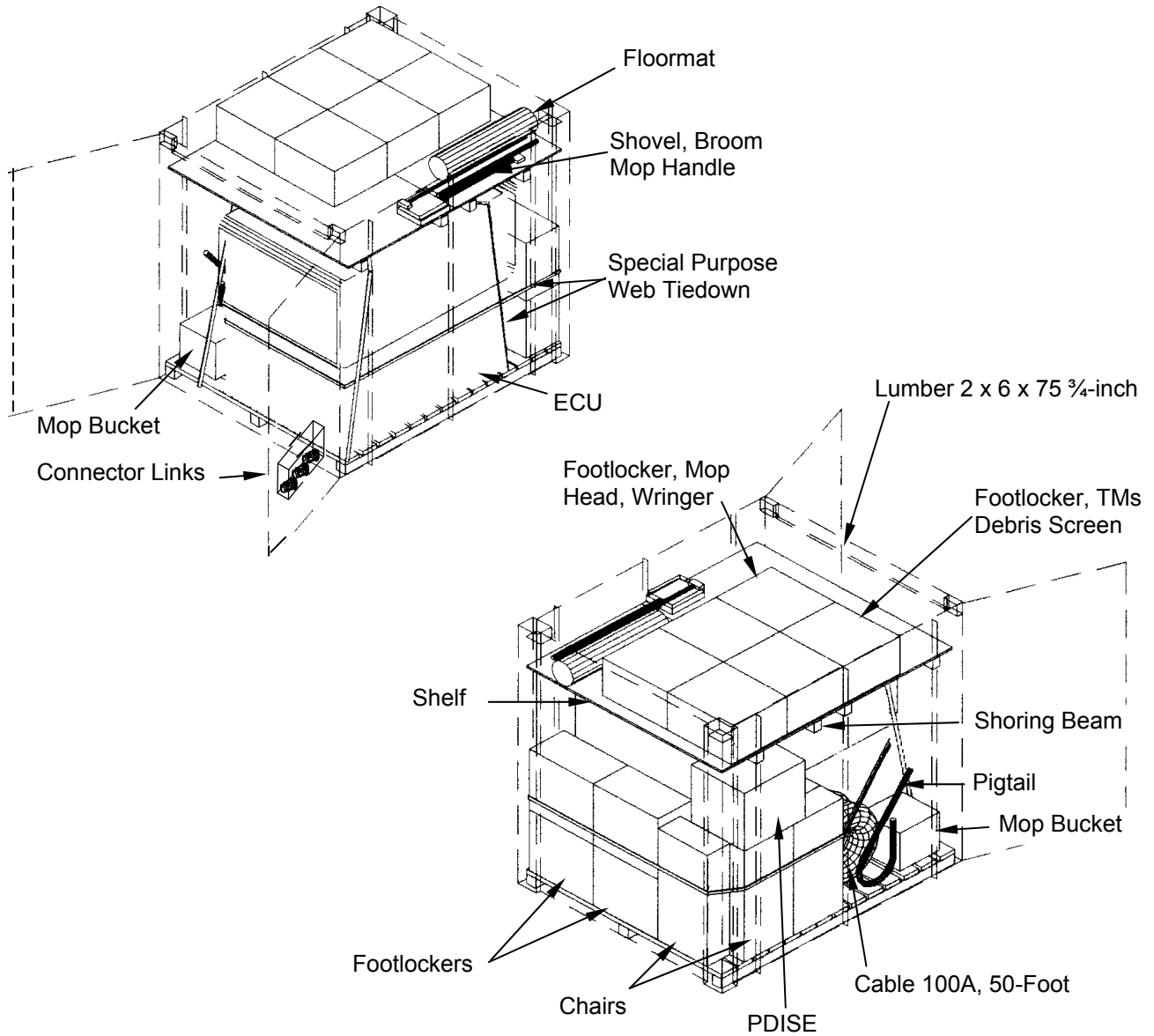


Figure 3. Field Packing Admin/MWR ECU Kit Type 12E.

**PREPARATION FOR MOVEMENT OF ADMINISTRATION TENT KIT TYPE 12F**

This paragraph provides information to pack equipment into TRICON Type 12F. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into designated TRICON, and maintain uniformity of similar TRICON. The following procedures are for field packing one of three identical TRICON, Type 12F. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage, as applicable, retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 12F refer to Table 4, WP 0033 00.  
 For information and illustrations of TEMPER components refer to TM 10-8340-224-13.  
 For information and illustrations of PDISE-M100 and associated components refer to TM 9-6150-226-13.  
 For information and illustrations of other administration equipment refer to WP 0033 00 and WP 0095 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

To prepare Tent Bundle #1, locate the following items:

**Table 33. Tent Bundle #1.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	2
Line, Tent	8
Slip, Tent Line	8
Tent Fly, 16-foot, D/T	1
Line, Tent	6
Slip, Tent Line	6
End Section, D/T	1
Line, Tent	2
Slip, Tent Line	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent 1, Bundle 1 of 4", "Tent 1, Bundle 2 of 4", "Tent 2, Bundle 1 of 4" and "Tent 2, Bundle 2 of 4".
6. Repeat steps 1 through 5 above and package tent bundles #2, #3, and #4 in the same manner.

To prepare Tent Bundle #2, locate the following items:

**Table 34. Tent Bundle #2.**

Item	Quantity
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2
Plenum, End Wall, TEMPER	1
Plenum, Entrance, 16 -ft, TEMPER	1
Plenum, Extendable 16 -ft, TEMPER	1
Partition	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are

visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.

2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., "Tent 1, Bundle 3 of 4" and "Tent 2, Bundle 3 of 4".
6. Repeat steps 1 through 5 above and package another tent bundle #2 in the same manner.

To prepare Tent Bundle #3, locate the following items:

**Table 35. Tent Bundles #3.**

Item	Quantity
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2
Partition	1
Container, Pin	3
Vestibule Container, TEMPER	1
Vestibule with Door, TEMPER	1
Line, Tent	4
Slip, Tent Line	4
Vestibule Floor, SP, TEMPER	1

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., Tent 1, Bundle 4 of 4 and Tent 2, Bundle 4 of 4.
6. Repeat steps 1 through 5 above and package another tent bundle #3 in the same manner.

To prepare End Section Frame Assembly Bundles, locate the following items:

**Table 36. End Section Frame Assembly.**

Item	Quantity
Arch Assembly	2
Transport Storage Cover	1
Header Assembly	2

**Table 36. End Section Frame Assembly - Continued.**

Item	Quantity
Purlin Assembly	5
Eave Extender	4
Ridge Extender	2

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17-inches wide x 8-inches tall.
7. Repeat steps 1 through 5 above and package another end section frame bundle in the same manner.

To prepare the Window Section Frame Assembly Bundles, locate the following items:

**Table 37. Window Section Frame Assembly.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender	1
Transport Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover and close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17-inches wide x 8-inches tall.
7. Repeat steps 1 through 5 above and package five additional window section frame bundles in the same manner.

Locate three Vestibule Frame Assemblies, each consisting of the following components:

**Table 38. Vestibule Frame Assembly.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

1. Locate one vestibule frame container.
2. Place three (3) vestibule frame assemblies inside the vestibule frame container. Place cushioning material between any metal parts that contact each other in the container. Secure with tape.

To prepare the tent pins for packing, proceed as follows:

1. Retrieve, or fabricate four wooden tent pin boxes (9-1-0076) and place 30 each 18-inch steel tent pins in each box. Secure lid of box with nails and steel strapping.
2. Locate two fabric tent pin containers and place 25 each wood tent stakes in each container. Secure containers with tie provided.
3. Locate four each fluorescent light sets. Place each light set into an original manufacturer's box, if available, or a fiberboard box with exterior dimensions not to exceed 75½-inches long x 22-inches wide x 7-inches high. Close boxes with tape.
4. Locate two TEMPER distribution box stands and wrap both ends with cushioning material. Secure with tape. Wrap fiberboard around the center mounting plate and secure it in place with tape.
5. Locate four TEMPER convenience outlet assemblies, 3-drop. Wrap each convenience outlet in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.
6. To prepare the TEMPER Distribution Box Assemblies, locate the following items:

**Table 39. TEMPER Distribution Box Assembly.**

Item	Quantity
TEMPER Electrical Distribution Box	1
Cable Assembly, Light, 173-in	1
Cable Assembly, Light, 103-in	1
Cable Assembly, Outlet, 254-in	2
Cable Assembly, Outlet, 156-in	2

- a. Record the serial number of the distribution box.
  - b. Completely wrap the temper electrical distribution box in cushioning material. Secure cushioning material in place with tape.
  - c. Wrap the temper electrical distribution box in barrier material. Secure in place with tape.
  - d. Record serial number on outside of wrapped distribution box.
  - e. Wrap the connectors on each end of the cables in two layers of cushioning material and secure in place with tape.
  - f. Wrap each connector end in barrier material. Secure in place with tape.
  - g. Neatly coil each assembly and secure with twine or cable ties.
  - h. Repeat steps a through g above to package the second distribution box.
7. Locate two footlockers. Place two convenience outlets and one electrical distribution box, as prepared above, inside each footlocker. Secure the lids and place each locker inside original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inches long x 21-Inches wide x 13-inches high may be used. Stack the lockers in a central location.



**NOTE**

Do not prepare used or soiled cleaning equipment such as brooms and mop heads for packing. Dispose of these items locally.

8. Locate two each (unused) mop heads. Place items in a bag made of barrier material. Seal Bag with tape.
9. Locate two each wringers, mop, size-small, Type-gear & rack. Pack mop wringers into original manufacturer's box, if available, or individual close fitting fiberboard container of appropriate size. Close box with tape.
10. Locate two each fire extinguishers. Wrap each fire extinguisher in cushioning material and secure with tape. Place each fire extinguisher original shipping box, if available, or other suitable fiberboard boxes.
11. Locate one each TEMPER Technical Manual TM 10-8340-224-13 and one (1) TEMPER Technical Manual, TM-10-8340-224-23P. Place the TMs in a single bag made with barrier material and seal with tape.
12. Locate six each footlockers.
  - a. Place each of two mop wringers and mop heads previously prepared into two footlockers.
  - b. Place two fire extinguishers and the TEMPER Technical Manuals prepared previously into one footlocker.
  - c. Secure the lids of the footlockers prepared above as well as the remaining footlockers. Place each locker inside original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inches long x 21-inches wide x 13-inches high may be used. Close boxes with tape. Stack the lockers in a central location.
13. Locate four each folding tables, 6-foot, aluminum. Place each table inside manufacturer's original box if available, or a close fitting fiberboard container with the following outer dimensions: 74-inches long x 32½-inches wide x 9-inches high. Secure box with tape.
14. Locate four 60-A/100-foot Power Cable Assemblies previously cleaned and set aside.
  - a. Wrap the connectors on each end of the cable in two layer of cushioning material and secure with tape.
  - b. Wrap each connector end in barrier material and secure with tape.
  - c. Neatly coil each assembly and secure with twine or cable ties.
  - d. Coiled assemblies should fit two (2) each into original shipping container. Other fiberboard containers with the outer dimensions of 32½-inches long x 32½-inches wide x 9-inches high can also be used. Close box with tape.
15. Locate one Electrical Feeder System PDISE-M100.
  - a. Ensure that all connector covers are installed and secured.
  - b. Wrap PDISE with cushion material and secure with tape.
  - c. Wrap PDISE with barrier material and secure with tape.

- d. Place wrapped PDISE into original shipping, or appropriate replacement fiberboard container.
  - e. Place TM 9-6150-226-13 into container with PDISE and close the container with tape.
  - f. Locate two 100-A/50-foot service cables and one 100-A/4-foot pigtail assembly.
  - g. Wrap connectors of cable and pigtail assemblies with cushioning material and secure with tape. Wrap connectors with barrier material and secure with tape.
  - h. Coil each cable and the pigtail assembly into a uniform coil with a diameter no greater than 26-inches.
  - i. Locate eight cable carrying straps and secure each 50-foot cable coil with four straps.
16. Locate one each sledge hammer and one wooden mallet. Wrap sledge hammer head with a minimum of two wraps of cushioning material and secure with tape. Place both the sledge hammer and the mallet inside a fiberboard container with outer dimensions not to exceed 40½-inches long X 10-inches wide x 8-inches high. Fill voids within container using cushioning material to prevent contents from moving.
17. Locate two each shovels, two brooms, and two mop handles. Wrap each shovel head with a minimum of two wraps of cushioning material. Nest the two shovels together and secure with tape. Wrap the broom head in plastic sheet or protective paper and secure with tape. Wrap each mop handle metal end with barrier material and secure in place with tape. Nest the two mop handles together and secure with tape.
18. Locate two each floormats. Tightly roll each floormat individually, and secure roll in two places with tape.
19. Locate nine each chairs, folding, steel. Stack chairs in three groups of three.
20. Separate each chair with protective paper. Place each group of chairs inside the manufacturer's original box, or a new tightly fitting fiberboard box with exterior dimensions not to exceed 18-inches long x 11-inches wide x 39½-inches.

**Packing Procedures for TRICON Type 12F**

The following packing materials and other items are required to pack TRICON 12F:

**Table 40. TRICON Type 12F Packing Material.**

Item	Qty
Pad, energy dissipating, 3-inch thick (honeycomb), NSN 1670-00-753-3928, as required	As required
Lumber, 2 x 6 x 75-3/4-inches	4
Corrugated Fiberboard Stock, ASTM-D4727	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Shelf shoring beam, NSN 9540-01-491-3804	4
Shelf assembly, removable NSN 8145-01-503-4404	2
Special purpose web tiedowns NSN3990-01-204-3009	4
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required

Use the following procedures to install the shelf and pack twelve footlockers into TRICON Type 12F:

1. Locate TRICON with "ADMINISTRATION TENT KT; CO. TYPE 12F..." stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate four tent bundles "3 of 4" and "4 of 4". Place these bundles flat on the TRICON floor, forming a uniform layer covering the entire floor. Make sure that the bundles do not overhang out the front of the TRICON interfering with closing the door.
5. Locate four tent bundles "1 of 4" and "2 of 4". Place these bundles flat over the first layer, forming a uniform second layer. Make sure that the bundles do not overhang out the front of the TRICON interfering with closing the door.
6. Locate two end section frames, and six window section frames,. Proceed with caution as you place the frames in the container. Make sure that the frame sections do not interfere with the 2-inch x 6-inch boards that will go across the front of the TRICON when packing is complete or the closing of the TRICON door. Also, ensure that the stack of frames is flat and stable. Place frame sections diagonally over the tent bundles lying from right rear to left front of the container.
7. Locate four tent pin boxes and place on the front floor of the TRICON against the tent bundles with stenciling facing front. Secure in position with one (1) 2-inch x 6-inch x 7<sup>3</sup>/<sub>4</sub>-inch lumber brace, so that the contents will not interfere with the closing of the TRICON door.
8. Locate two rolls of floor mat. Place one roll on floor in front of the tent bundles, and the second roll on top of the tent pin boxes.
9. Locate two vestibule frame assemblies with containers, as previously prepared. Place one vestibule frame assembly on each side of the tent frame bundles, as shown.
10. Locate one 100-A/50 -foot cable assembly and one 100-A/4-foot pigtail cable and place in the left rear triangular quadrant of container formed by the tent frame bundles.
11. Locate two fabric tent pin containers, with 25 each pin, tent, wood, 24-in, as previously prepared. Locate one mallet and sledge hammer as previously packed, and three boxes of chairs, packed previously. Place items in the left rear triangular quadrant of container formed by the tent frame bundles, as shown.
12. Locate two mop handles and two brooms. Place these items on top of vestibule frame assembly in the left rear triangular quadrant of container formed by the tent frame bundles.
13. Locate the two temper electrical distribution box stands. Lay the stands flat on top front of the tent frames.
14. Locate two shovels and place them on top of the vestibule frame assembly in the right front triangular quadrant of container formed by the tent frame bundles.
15. Locate one 100-A/50-foot cable assembly and one PDISE-M100. Locate two mop buckets. Place these items in the right front triangular quadrant of container formed by the tent frame bundles, as shown.
16. Place one 2-inch x 6-inch x 7<sup>3</sup>/<sub>4</sub>-inch lumber brace, to secure components. Ensure that the contents will not interfere with the closing of the TRICON door.

17. Locate four TRICON shoring beams. Install them so that the bottom of the bracket is at the lowest possible position. Ensure that all the braces are connected to the vertical uprights at the same height, where marked with paint or a permanent paint marker.
18. Locate and install the two shelf assemblies on top of the four shoring beams.
19. Locate eight footlockers as packed previously. Place footlockers on the right side of the shelf. Stand on end, forming two rows of four footlockers.
20. Locate two boxes containing four 60-A/100-foot cable assemblies. Place them on the shelf in front of the footlockers.
21. Locate four fluorescent light sets. Place two boxes upright alongside the footlockers and cable assemblies, on the left side. Place two boxes flat on top of the footlockers, on the right side.
22. Locate four, 6 foot aluminum folding tables. Place two tables upright on the far left of the shelf. Place the remaining two on top of light sets, one flat on the right and one slanted on the left.
23. Install the two remaining 2-inch x 6-inch x 7 $\frac{3}{4}$ -inch lumber braces across the front of the TRICON to support the items and packaging material, as shown.
24. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
25. Ensure that three TRICON connectors are located in the holder on the lower inside of the right hand container door.

26. Close and secure TRICON doors.

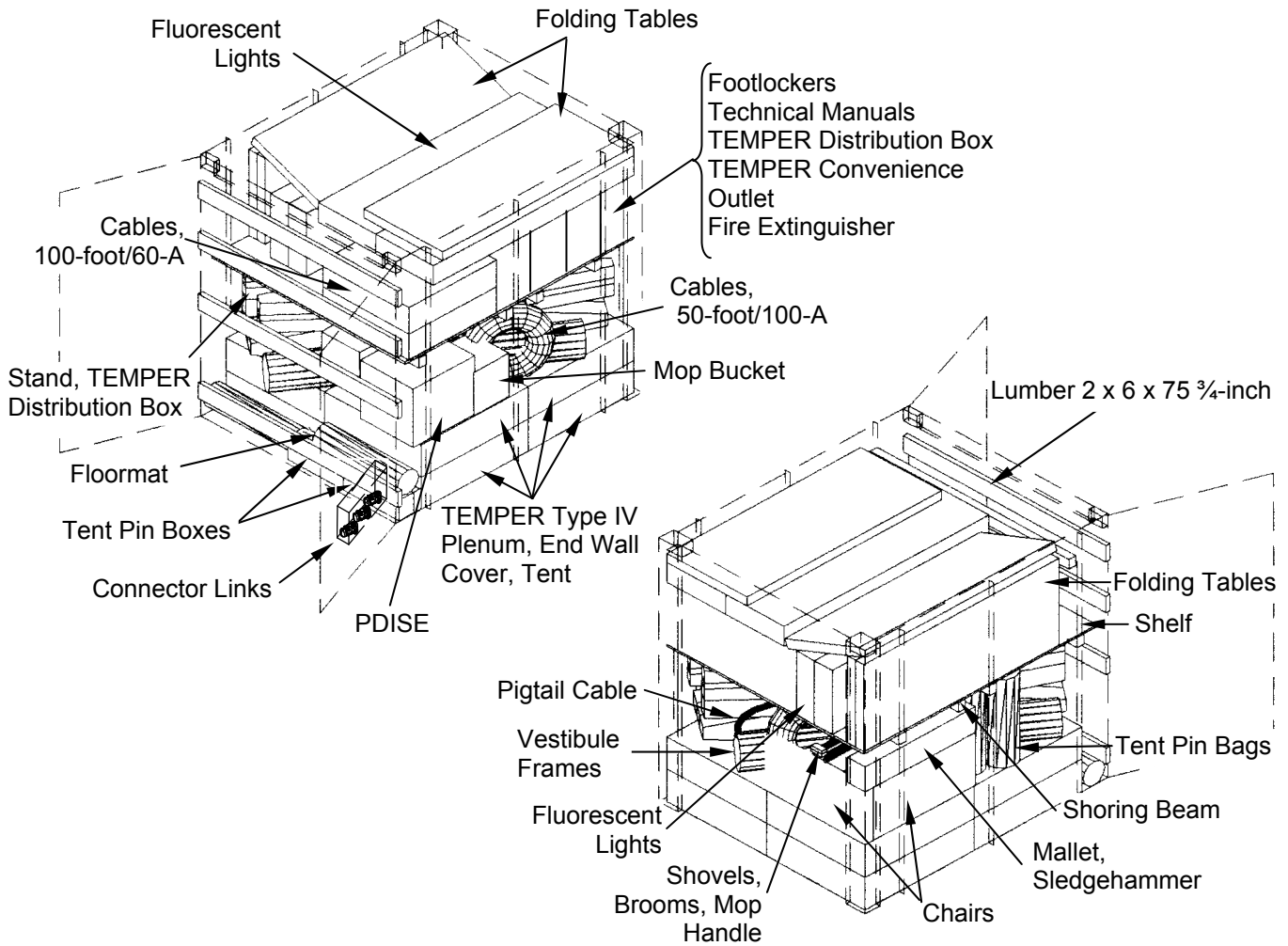


Figure 4. Field Packing Administration Tent Kit Type 12F.

END OF WORK PACKAGE



**FORCE PROVIDER****PREPARATION FOR MOVEMENT - MORALE, WELFARE AND RECREATION (MWR) SUBSYSTEM****GENERAL**

Following are instructions for the preparation for movement and field packing of the MWR subsystem equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed. Equipment to be packed into TRICON 12B, and 12C is shared with the Admin subsystem. Shutdown, preparation and packing of equipment in these TRICONS must be coordinated between personnel of both subsystems. Refer to WP 0034 00 and WP 0096 00 for equipment illustrations.

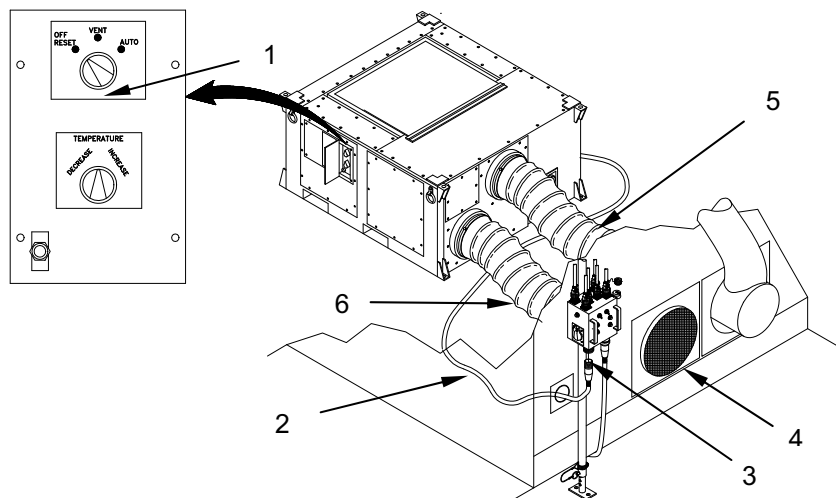
Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Obtain replacement of damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL (TM 10-5419-206-23P, WP 0002 00).

**PREPARATION FOR MOVEMENT OF MWR/ADMINISTRATION ECU****NOTE**

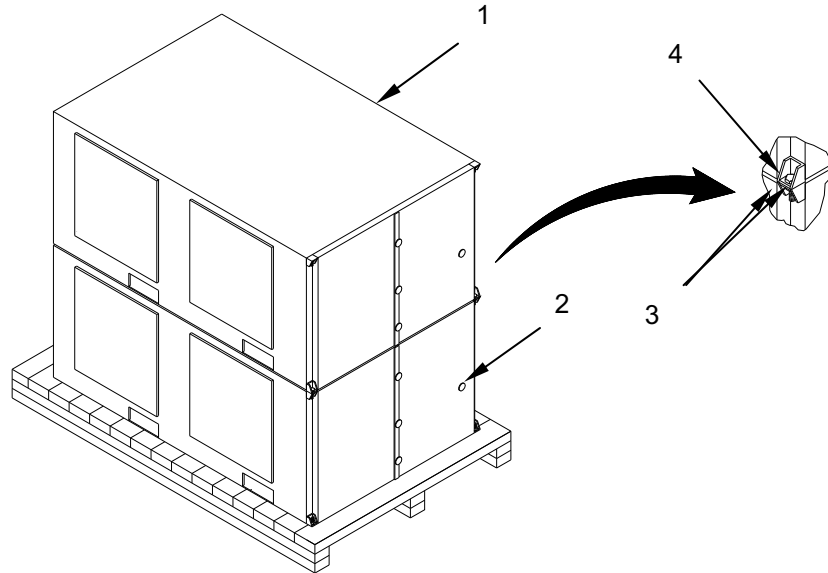
The following instructions for the preparation for movement of ECU are not applicable to all Model ECU issued. If Model AH-54 (NSN 4120-01-283-4096) is at hand, assemble, shut down and prepare it for movement and packing in accordance with TM 9-4120-398-14. If Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, or FDCEU-4 (NSN 4120-01-449-459) are at hand, use TM 9-4120-411-14. Otherwise, follow the instructions furnished below.

1. Set ECU mode selector switch (1) to OFF- RESET position.
2. Disconnect ECU power cable (2) from POWER OUT receptacle on TEMPER power distribution box (3). Install dust caps on cable and receptacle. Coil cable (2) and store inside condenser compartment storage box.
3. Remove debris screen (4) from return duct.
4. Disconnect ECU supply duct (5) and return duct (6) from TEMPER and ECU. Store ducts in condenser compartment storage box.



Prepare the ECU for movement as follows:

1. Locate two ECU (1) and (2), one with attached pallet and one without. Ensure latches and doors are secured.
2. Remove four mounting bolts, nuts and washers (3) from four unit-to-unit corner mounts (4) of pallet-attached ECU (2).
3. With forklift, position ECU (1) without pallet on top of pallet-attached ECU (2), ensuring both ECU (1) and (2) face the same direction and unit-to-unit mounting holes (4) are aligned. Secure units together with four  $\frac{5}{8}$ -inch x 2-inch bolts, four  $\frac{5}{8}$ -inch nuts and four flat washers (3).



4. Pack ECU pallet into TRICON Type 12C as described under FIELD PACKING MWR/ADMIN ECU KIT TYPE 12C in this WP.

#### **PREPARATION FOR MOVEMENT OF MWR AND REFRIGERATION EQUIPMENT**

1. Disconnect two-door and three-door refrigeration units at least one day prior to packing.
2. Empty refrigerators and leave doors open. Remove shelves
3. Clean out inside of refrigerators and shelves with warm soapy water. Rinse and let the inside air dry, leaving the doors open.
4. Clean the outside of the refrigerators, removing debris from the exterior coils and the rear panel.
5. Remove MWR equipment from the TEMPER and set aside for packing into the designated TRICON as described in this WP.

#### **PREPARATION FOR MOVEMENT OF FLOODLIGHT EQUIPMENT**

Prepare 1,000W and 2,000W Floodlights and associated equipment for movement as described in WP 0051 00.



## PREPARATION FOR MOVEMENT OF MWR POWER SUPPLY EQUIPMENT

The following procedures outline the steps to prepare the power supply equipment for movement.

1. Switch all TEMPER electrical equipment to OFF and set TEMPER power control switch to OFF.
2. Set all PDISE-M100 circuit breakers, including MAIN, to OFF.



### WARNING

Power supply shall be shut off and disconnected only by qualified personnel. Power source must be shut off and disconnected before attempting to disassemble power supply equipment. Failure to observe this warning may result in severe injury or death by electrocution.

3. Have qualified personnel shut off power to PDISE. Power source must be shut off and disconnected before attempting to disassemble power supply equipment.
4. Have qualified personnel disconnect 100-A/4-foot pigtail from power source.

To disassemble the power supply equipment, proceed as follows:

1. Disconnect 100-A/50-foot service cables from pigtails. Install dust caps.
2. Disconnect each pair of 100-A/50-foot service cables. Install dust caps.
3. Disconnect 100-A/50-foot service cable from J1 connector on each PDISE-M100. Install dust caps.
4. Disconnect 60-A/100-foot power cables from J3 and J6 connectors on each PDISE-M100. Install dust caps.
5. Disconnect each pair of 60-A/100-foot power cables. Install dust caps.
6. Disconnect 60-A/100-foot power cables from POWER IN receptacle (J1) on TEMPER power control box. Install dust caps.

Power supply equipment must be cleaned of dirt, debris and corrosion. Dry the equipment thoroughly, before packing. Prepare power supply equipment for packing as follows:

1. Service and Power Cables. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and then allow to completely air dry.
2. PDISE-M100. Clean the external surfaces with a clean, damp rag. Clean the face of PDISE-M100 circuit breaker panel with a dry rag.

Prepare one electrical feeder system PDISE M100 for packing into each one of two, TRICON Type 12A. Position one system near each TRICON to be packed, but do not begin packing yet. Procedures for field packing the containers follow later in this WP.

1. Locate two PDISE-M100. Ensure that all connector covers are installed and secured, and that the top cover is closed and secured.
2. Locate four 100-A/50-foot service cables and sixteen cable carrying straps. Coil each cable into a uniform coil having a diameter no greater than 26-inches. Secure each coil using four cable carrying straps. Place two cables with each electrical feeder system.

3. Locate eight 60-A/100-foot power cables and sixteen carrying straps. Coil each cable into a uniform coil having a diameter no greater than 30-inches. Secure each coil using two cable carrying straps. Place four cables with each electrical feeder system.
4. Locate two 100-A/4-foot pigtails. Ensure dust cap is installed and secured on the cable connector. Place one each pigtail with each electrical feeder system.

### PREPARATION FOR MOVEMENT OF MWR TEMPER

Prior to striking the TEMPER, ensure all equipment has been removed.

### NOTE

Do NOT pool or mix TEMPER components. Keep all components in the area where TEMPER was erected.

Strike TEMPER in accordance with TM 10-8340-224-13.

TEMPER Components must be cleaned of dirt, debris and corrosion, then dried thoroughly, before packing. Prepare TEMPER Equipment for packing as follows:

1. Exterior Fabric Components, including bump-through doors and Vinyl Liners. Sweep loose dirt from both sides of each fabric section and clean with a scrub brush and warm soapy water. Rinse with clean water and allow fabric to completely air dry.
2. Cloth Liners. Do not launder liners. Sweep loose dirt from both sides of each liner. Allow liners to completely air dry.
3. Frame Components. Clean with steam cleaner or pressurized washer, and scrub brush. Allow frame sections to completely air dry.
4. Electrical Cable Assemblies. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and allow cables to completely air dry.
5. TEMPER Power Control. Clean the external surfaces with a clean, damp rag. Ensure all dust caps are installed and secure.

### FIELD PACKING MWR KIT PART A TYPE 11D

This paragraph provides information to pack equipment into ISO 11D. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the ISO. The following procedures are for field packing one type 11D ISO. Depot shelves, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

#### Pertinent References:

For a complete inventory of ISO type 11D refer to Table 1, WP 0034 00.  
For information and illustrations of MWR equipment refer to WP 0034 00 and WP 0096 00.  
For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
Equipment must be clean, dry, and debris-free before packing.

Prepare contents of ISO Container 11D for packing as follows:

1. Locate one each floodlight system support package consisting of the following components, and prepare in accordance with the procedure below:

**Table 1. Floodlight System Support Package Components.**

Item	NSN/PN/(CAGE)	Quantity
Extension Cord, 50 Ft, #12 Awg/3	/02293/(07909)	5
Light Head Assembly	/04465702/(23287)	10
Bulb, Halogen, 500w	/3105901/(23287)	50
Glove, Cotton, Insert	8415-01-782-2809	6
Tripod, Floodlight, 1000w	/PUL-1000Q-TB/(23287)	3
Tripod, Floodlight, 2000w	/PUL-2000Q-TA/(23287)	2

- a. Place extension cords in a bag made with barrier material. Secure bag with tape.
  - b. Wrap the light head assemblies in two layer of cushioning material. Secure with tape. Place light head assembly into original manufacturer's box or in a close fitting fiberboard box. Secure box with tape.
  - c. The 500W halogen bulb should still be in commercial pack. Do not open the pack or touch bulbs with hands. Place each bulb in a single bag made with barrier material and seal with tape.
  - d. Place each pair of the cotton insert gloves in a single bag made of barrier material. Secure the bag with tape.
  - e. Place the 1,000W and 2,000W tripod floodlights into the original manufacturer's box, or a new fiberboard box with exterior dimensions not to exceed 57-inches long x 21-inches wide x 9-inches high. Secure box with tape.
  - f. Place the previously packaged extension cords, light head assemblies, 500W halogen bulbs, and cotton insert gloves into a close fitting fiberboard box. Secure box with tape.
2. Obtain three each light sets, fluorescent (part of the General Purpose System Support Package) from administration subsystem personnel for packing into ISO Container 11D. (The remainder of the kit will be packed into TRICON 11B and 11C by administration subsystem personnel.) Package the light sets as follows:
    - a. Place the light sets into the original manufacturer's box, or a new fiberboard box with outer dimensions of 75½-inches long x 22-inches wide x 7-inches high.
    - b. Secure boxes with tape.
  3. Locate eleven each extension cords, 120v, 25ft, GFCI. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. In addition:
    - a. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.
    - b. Place extension cords into a close fitting fiberboard box and seal with tape.

4. Locate the following components of the satellite receiving system equipment and pack as described below:

**Table 2. Satellite Receiving System Components.**

Item	NSN/PN/(CAGE)	Quantity
Satellite Dish Assembly W/Stand, 1.5m	2P5/(1EHQ3)	1
Feedhorn, C-Band, Circular, Left or Right	RPI-CP300/(1BUL8)	1
Feedhorn, Ku-Single, 11.7 ~ 12.5 GHZ	ADL-KU-855/(1BUL8)	1
Ring, Mounting, Ku Series, Prime Focus	ADL-OP-120MR/(1BUL8)	1
Converter, LNB, C-Band	8520/(1GFW6)	1
Receiver/Decoder, Satellite	D9234/(10110)	1
Converter, LNB, Ku-Band	JMCL-5150	1

- a. Locate the dish assembly w/stand 1.5m and wrap components into two layers of cushioning material. Secure in place with tape.
  - b. Locate the assembly hardware associated with the satellite and package the items into a bag fabricated of barrier material.
  - c. Locate the feedhorns, converters, mounting ring, and receiver/decoder. Wrap each in two layer of cushioning material and secure in place with tape. Place into manufacturer's original box or a new, close fitting fiberboard box. Secure box with tape.
  - d. Locate any commercial manuals pertaining to the satellite receiving system and place them into a close fitting barrier bag. Secure in place with tape.
5. Locate the following components of the public address system equipment and pack as described below:

**Table 3. Public Address System Components.**

Item	NSN	Quantity
Microphone, Hand, Explorer	5965-01-471-2498	1
Stand, Speaker, Heavy Duty, Explorer	5965-01-452-4039	1
Bag, Speaker Stand	5965-01-471-2495	1
Cover, Loud Speaker	5830-01-452-4036	1
Cable, Extension, Speaker, Explorer	5995-01-471-2490	1
Cable, Extension, Microphone, Explorer	5995-01-471-2492	1
Stand, Microphone, W/Boom, Explorer	5966-01-471-2793	1

- a. Locate any commercial manuals pertaining to the public address system and place them into a close fitting barrier bag. Secure in place with tape.
- b. Locate public address system, 'Explorer' and wrap in two layer of cushioning material. Secure in place with tape. Place into manufacturer's original box or a close fitting fiberboard box. Seal box with tape. Place in a single bag made with barrier material.
- c. Locate the 'Explorer' hand microphone and wrap in two layer of cushioning material. Secure in place with tape. Place into manufacturer's original box or a close fitting fiberboard box. Seal box with tape. Place in a single bag made with barrier material.
- d. Locate bag, speaker stand, and cover, loud speaker. Place into manufacturer's original box or a close fitting fiberboard box. Seal box with tape. Place in a single bag made with barrier material.
- e. Locate the speaker and microphone cable extensions. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties. Place in a single bag made of barrier material.

- f. Locate stand, speaker, heavy duty, explorer, and stand, microphone, w/boom. Wrap the stand, microphone and speaker each in two layer of cushioning material and secure in place with tape. Place into manufacturer's original box or a close fitting fiberboard box. Seal box with tape.
- g. Place the public address system, the microphone, the speaker and microphone cable, extensions, the speaker bag, and the cover, loud speaker inside a close fitting fiberboard box.

Prepare the remaining items to be packed into ISO 11D as follows:

1. Locate one video projector and place it in a single bag made of barrier material. Seal bag with tape.
2. Locate one each AM/FM/CD stereo player, one each video player, VCR/DVD/VHS, stereo, HR-XVS, one each projector, multimedia, two each VHS cleaning tapes, and the projector screen. Wrap each item in two layer of cushioning material and secure in place with tape.
3. Place the items in 2, above into the manufacturer's original box or a new, close fitting fiberboard box. Secure box with tape.
4. Locate one each rack, display, periodical, revolving, three each rack, display, book, 24 shelf, one each rack, newspaper, and one each cart, TV. Wrap components of display, newspaper racks, and TV cart in cushioning material and secure in place with tape. Place into manufacturer's original box or a close fitting fiberboard box. Secure box with tape.
5. Locate one each folding table, and place into a close fitting fiberboard container. Secure box with tape.
6. Locate four each softball bats 32-in, 24-oz, eight each bats, 33-in, 25-oz, and eight each bats, 34-in, 26-oz. Place four each (like kind) into a close fitting fiberboard container and secure with tape.
7. Locate two each abdominal sit-up boards, three each bench, weightlifter, press, one each bench, curl, one each squat rack, gymnastic, and one each bench, seated, multipurpose, gymnastics. Wrap metal frames in cushioning material and secure in place with tape. Place into manufacturer's original box or a close fitting fiberboard box. Secure box with tape.
8. Locate two each, table tennis tables. Place the tables into manufacturer's original box or a close fitting fiberboard box. Secure box with tape.
9. Locate one each set, volleyball standards. Wrap post in cushioning material and secure in place with tape. Place base into manufacturer's original box or a close fitting fiberboard box. Secure box with tape.
10. Locate two each, horseshoe set and place into manufacturer's original box or a close fitting fiberboard box. Secure box with tape.
11. Locate popcorn machine. Secure doors, drawer, and covers to ensure that they remain in place during transport. Wrap components of each in cushioning material and secure in place with tape. Place into manufacturer's original box or a close fitting fiberboard box. Secure box with tape. Place in a single bag made of barrier material.

**Packing Procedures for ISO Type 11D**

The following packing materials and other items are required to pack ISO Type 11D:

**Table 4. ISO Type 11D Packing Materials.**

Item	Qty
Pad, Energy Dissipating, 3-inch thick (Honeycomb), NSN 1670-00-753-3928	As required
Corrugated Fiberboard Stock, ASTM-D4727	As required
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required

**Table 4. ISO Type 11D Packing Materials - Continued.**

Item	Qty
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Special purpose web tiedowns NSN3990-01-204-3009	5
Fiberboard Sheet, 4 x 8-foot	4

Use the following procedures to install the shelf and pack twelve footlockers into ISO Type 11D:

1. Locate ISO Container with "MWR KIT PART A; CO. TYPE 11D..." stenciled on the left door (this container should be staged in the MWR area near the TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Cut fiberboard sheets so that they will lay flat on the floor and rear wall of the container, tight to all sides, and allowing the doors to close tight against the front edges.
4. Locate three each special purpose web, tiedowns. Attach the non-ratchet end of the straps on the rear corner tiedowns, one on the left, and two on the right. Position the straps so that they are out of the way during the loading of the container.
5. Locate two each table, tennis tables. Stand on end, against the rear wall of the container. Secure in place with one of the straps connected to right rear corner tiedown. Attach the ratchet end of the strap to the upper left rear corner tiedown as shown. Fold loose strap ends and secure with plastic cable zip ties.
6. Locate one each satellite dish assembly and place it flat on the floor against the table tennis table.
7. Locate three each tripod, floodlights 1,000W, and two each tripod floodlight 2,000W, part of the floodlight system support package, and place them on top of the satellite dish assembly.
8. Locate three each light sets, fluorescent, part of the general purpose system support kit that will be packed into TRICON 11B. Place the light sets, fluorescent on top of the tripod floodlight.
9. Locate one each squat rack, gymnastic and place it flat on top of the light sets, fluorescent.
10. Secure the satellite dish assembly, the tripod, floodlight, the light sets, fluorescent, and the squat rack, gymnastic with the two remaining tiedown straps attached to the lower rear corner tiedown. Cross the traps over the bundle and secure to tiedown loops along the floor. Fold loose strap ends and secure with plastic cable zip ties.
11. Locate one each rack, display, periodical, revolving and three rack, display, book, 24-shelf, (shelf boxes only). Neatly stack the items next to the satellite dish assembly, the tripod, floodlight, and the light sets, fluorescent stack, as shown.
12. Locate two each projector screen, 70-inches x 70-inches , silver, lenticular, and place on top of the rack display.
13. Locate one each table, folding, 6-foot, aluminum and place on top of the projector screens.
14. Locate two each volleyball stand poles, part of volley ball standards. Place on container floor, right side, next to the rack, displays.

15. Locate two each special purpose web, tiedown. Cross straps over the rack display, projector screens, and table, folding, and secure as shown. Neatly fold loose strap ends and secure with plastic cable zip ties.
16. Locate five each boxes of softball bats, containing four each bat, softball, 32-in, 24-oz, eight bats, softball, 32-in, 24-oz, and eight each bats, softball, 32-in, 24-oz. Stand boxes on end, next to the rack display, projector screens, and table, folding stack.
17. Locate two each horseshoe set. Place on end next to the softball bats, on right hand side of the container, as shown.
18. Locate three each column assemblies, part of rack, display, book, 24-shelf. Stand upright on end next to the softball bats, as shown.
19. Locate one each stand, speaker, heavy duty, and one each microphone stand, w/boom. Stand upright on end next to the column assemblies, part of rack, display, book, 24-shelf, as shown.
20. Locate box with previously packaged public address equipment. Place public address system component box on container floor as shown.
21. Locate box with previously packaged satellite equipment. Stack satellite equipment box on top of the public address system component box.
22. Locate one each video player and place on top of box of satellite equipment.
23. Locate one each bag, projector, video and place on top of the video player stereo.
24. Locate one each previously packaged popcorn machine. Place on floor next to the public address system component box, and satellite equipment box.
25. Locate one each projector, multimedia and place on top of popcorn machine.
26. Locate two each abdominal sit-up board. Stand boxes on edge next to popcorn machine.
27. Locate one each rack, newspaper and place on floor, next to abdominal sit-up board.
28. Locate box of eleven extension cords, 125V, 25-foot, 14AWG and place box on top of rack, newspaper.
29. Locate the box of floodlight system support package items previously packaged. Place floodlight system support package box on floor, next to rack, newspaper, in front of the softball bats.
30. Locate one each stereo, AM/FM/CD/cassette, mini-system. Place box on container floor, in front of the floodlight system support package box.
31. Locate two each VHS cleaning tapes previously packaged and place on top of the stereo, AM/FM/CD/ cassette, mini-system.
32. Locate two each special purpose web, tiedown. Cross straps over components, and secure as shown. Fold loose strap ends and secure with plastic cable zip ties. Utilize honeycomb material as required to provide a stable and secure pack.
33. Locate three each bench, weight, press. Stack on floor, left hand side, in front of the public address system equipment and the popcorn machine.
34. Locate one each base, volleyball, part of volleyball standard, one each AV cart, adjustable and one each cart, TV. Stack on right hand side of container, as shown.

35. Locate one each bench, curl, and one each bench, seated, multipurpose, gymnastic. Place in front of the container as shown. Ensure that contact points are padded to prevent damage during transport.
36. Locate two each special purpose web, tiedown. Cross straps over components, and secure as shown. Fold loose strap ends and secure with plastic cable zip ties. Utilize honeycomb material as required to provide a stable and secure pack.
37. Install blocking and bracing as required to secure the contents inside the ISO. Blocking, bracing, fillers and all dunnage shall be installed to prevent ISO contents (and the dunnage itself) from falling out when the doors are opened.



38. Close and secure ISO door.

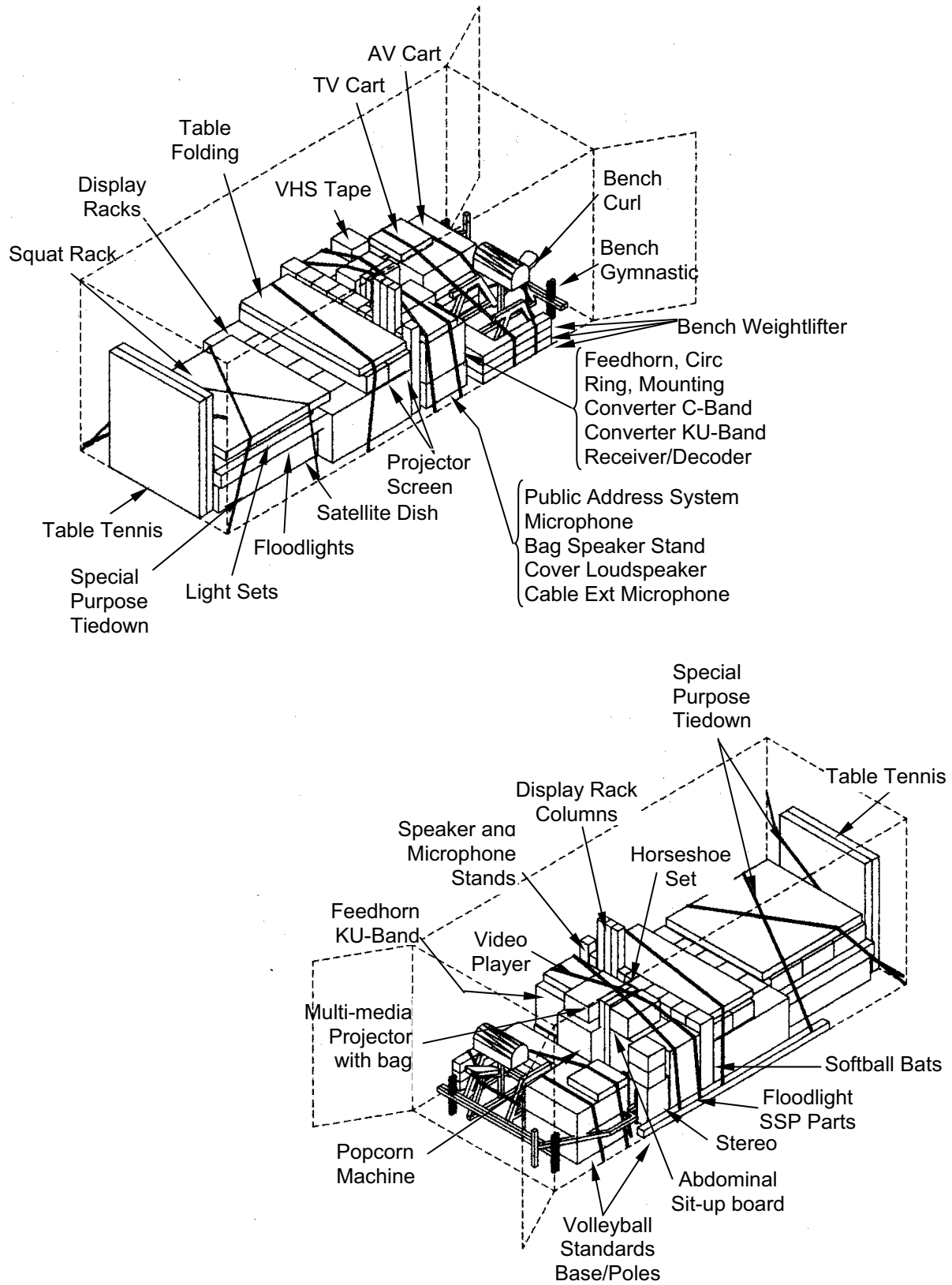


Figure 1. Field Packing MWR Kit Part A Type 11D.

**FIELD PACKING OF MWR KIT PART B TYPE 11G**

This paragraph provides information to pack equipment into TRICON 11G. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one type 11G TRICON. Packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 11G refer to Table 2, WP 0034 00.

For information and illustrations of MWR equipment refer to WP 0034 00 and WP 0096 00.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

Prepare contents of TRICON 11G for packing as follows:

1. Locate twenty folding steel chairs and stack into five groups of four each, separating each chair with a piece of protective paper.
2. Place each group of chairs inside the original shipping box, or a new fiberboard container with exterior dimensions not to exceed 18-inches long x 11-inches wide x 39½-inches high. Close box with tape.

**NOTE**

Do NOT return damaged, excessively used, or soil-stained/contaminated recreational equipment. Dispose of these items locally.

3. Locate the following MWR sports equipment components in the quantities specified and pack as prescribed:

**Table 5. MWR Sports Equipment Components.**

Item	NSN/PN/(CAGE)	Quantity
Pump, Inflating, Manual	4620-01-123-4091	4
Needle, Inflating	7810-01-469-7920	6
Ball, Basketball	7810-01-468-7191	12
Table Tennis Net	7810-00-663-0252	4
Table Tennis Paddle	7810-00-233-6201	12
Table Tennis Ball	7810-00-634-0187	5
Base Set, Baseball	7810-00-273-9564	3
Home Plate	7810-00-233-6200	3
Ball, Softball	7810-00-249-3462	8
Softball Mitt, Fielders, Left	7810-00-242-4318	4
Softball Mitt, Fielders, Right	7810-00-242-4317	20
Softball, Catchers Mask	7810-00-242-4345	2
Baseball Leg Guard, Black	7810-00-823-9840	2
Softball, Catchers Body Guard	7810-00-247-2901	4
Softball Catcher Mitt	7810-00-242-4322	2
Ball, Football	7810-00-995-2055	10
Football Kicking Tee, 2in	7810-00-859-5591	6
Football Flag Set, Blue	7810-01-468-6998	2
Football Flag Set, Red	7810-01-468-6999	2
Volleyball	7810-00-663-0546	8
Volleyball Net	7810-01-468-7147	3
Ball, Soccer	7810-01-468-8298	6
Frisbee, 10 inch	7810-01-468-6954	25

- a. Deflate items such as footballs, soccer balls and volley balls.
- b. Pack items into original shipping boxes, if available, or new fiberboard boxes of appropriate size to accommodate all like items. Secure boxes with tape.

**NOTE**

Do NOT pack incomplete, or excessively used items. Dispose of these games as well as those for which the original game box is no longer available, locally.

- 4. Locate the following MWR game equipment in the quantities specified and pack as prescribed:

**Table 6. MWR Game Equipment.**

Item	NSN/PN/(CAGE)	Quantity
Cards, Pinochle	/Napc-2xx/(0FZP5)	100
Game, Chips (Set)	/PC/(61448)	4
Game, Dice, Box	/DCE/(61448)	8
Game, Backgammon	/NA631XXX/(0FZP5)	4
Game, Uno Delux	7820-01-468-6114	4
Game, Chess/Checkers	/NA636XXX/(0FZP5)	8
Game, Cribbage	/2257XXXX/(0FZP5)	4
Game, Dominos	7820-00-279-0029	4
Game, Monopoly	7820-00-944-9697	4
Game, Risk	7810-01-468-6113	2
Game, Scrabble	7820-01-468-6585	4
Game, Trivial Pursuit	7820-01-468-6116	2
Game, Yahtzee	7820-01-468-6115	4

- a. Pack like items into bags made of barrier material. Secure with tape.
  - b. Place all items into a single fiberboard box and secure with tape.
- 5. Locate seventeen storage, and display shelves. Place each shelf assembly inside original shipping box, or a new, tightly fitting fiberboard box. Seal box with tape.

**Packing Procedures for TRICON Type 11G**

The following packing materials and other items are required to pack TRICON Type 11G:

**Table 7. TRICON Type 11G Packing Materials.**

Item	Qty
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Special purpose web tiedowns NSN3990-01-204-3009	4
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Pallet, Modified 9-1-0767 (81337)	1
Fiberboard Sheet, 4 x 8-foot	4

Use the following procedures to install the shelf and pack twelve footlockers into TRICON Type 11G:

- 1. Locate TRICON with “MWR KIT PART B; CO. TYPE 11G...” stenciled on the left door.
- 2. Open doors and remove everything from container. Ensure interior is clean and dry. Check latches to ensure free operation.

3. Locate one (1) each CRC refrigerator, 2RDS, 2R-SS, as prepared (cleaned) previously.
4. Pack the items prepared in paragraph 4 under FIELD PACKING OF MWR KIT PART B TYPE 11G, plus the following items inside the refrigerator before closing and securing the doors:

**Table 8. Athletic Equipment to be Packed into CRC Refrigerator.**

Item	NSN/PN/(CAGE)	Quantity
Football Flag Set, Blue	7810-01-468-6998	2
Football Flag Set, Red	7810-01-468-6999	2
Volleyball	7810-00-663-0546	8
Volleyball Net	7810-01-468-7147	3
Ball, Soccer	7810-01-468-8298	6
Frisbee, 10 inch	7810-01-468-6954	25

5. Locate one each CRC refrigerator, 3RDS, 3R-SS, as prepared (cleaned) previously.
6. Pack the remaining items prepared in paragraph 3 under FIELD PACKING OF MWR KIT PART B TYPE 11G inside the refrigerator before closing and securing the doors.
7. Using a forklift, place the packed two CRC refrigerators, doors facing inward, onto the pallet as shown. Place fiberboard honeycomb material between the refrigerator units to prevent damage during transport.
8. Locate seventeen each shelf, storage and display, stack the shelf units onto the pallet in front of the CRC refrigerator 2RDS unit, as shown.
9. Place fiberboard material between the refrigerator units and the shelf units to prevent damage during transit.
10. Locate two each special purpose web, tiedown. Secure the refrigerator units and shelf units to the pallet, hooking the ends of the straps to the eyebolts. Fold the loose ends of the tiedown straps and secure with nylon cable zip ties.
11. Locate two each special purpose web, tiedown. Secure the non-ratcheted end to the rear corner tiedown loops in the corner of the TRICON container. Place ends of the tiedowns out of the way when placing the pallet into the TRICON container.
12. Using a forklift, position the pallet with the refrigerator units and shelf units inside the TRICON. Block and brace between the pallet and TRICON side and rear walls as necessary to prevent side-to-side or lateral movement of the load.
13. Cross the tiedown straps over the refrigerator units as shown and fasten the ratcheted ends to the front corner tiedown loops. Before tightening, ensure that protective nylon sleeves or additional corner protectors are in place to prevent damage to the refrigerator units.
14. Ensure that the straps are properly tightened, not twisted, and/or caught up on any obstruction. Fold the loose ends of the straps and secure with a nylon cable tie.
15. Install blocking and bracing as required to secure the contents inside the TRICON. Blocking, bracing, fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
16. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.

17. Close and secure TRICON doors.

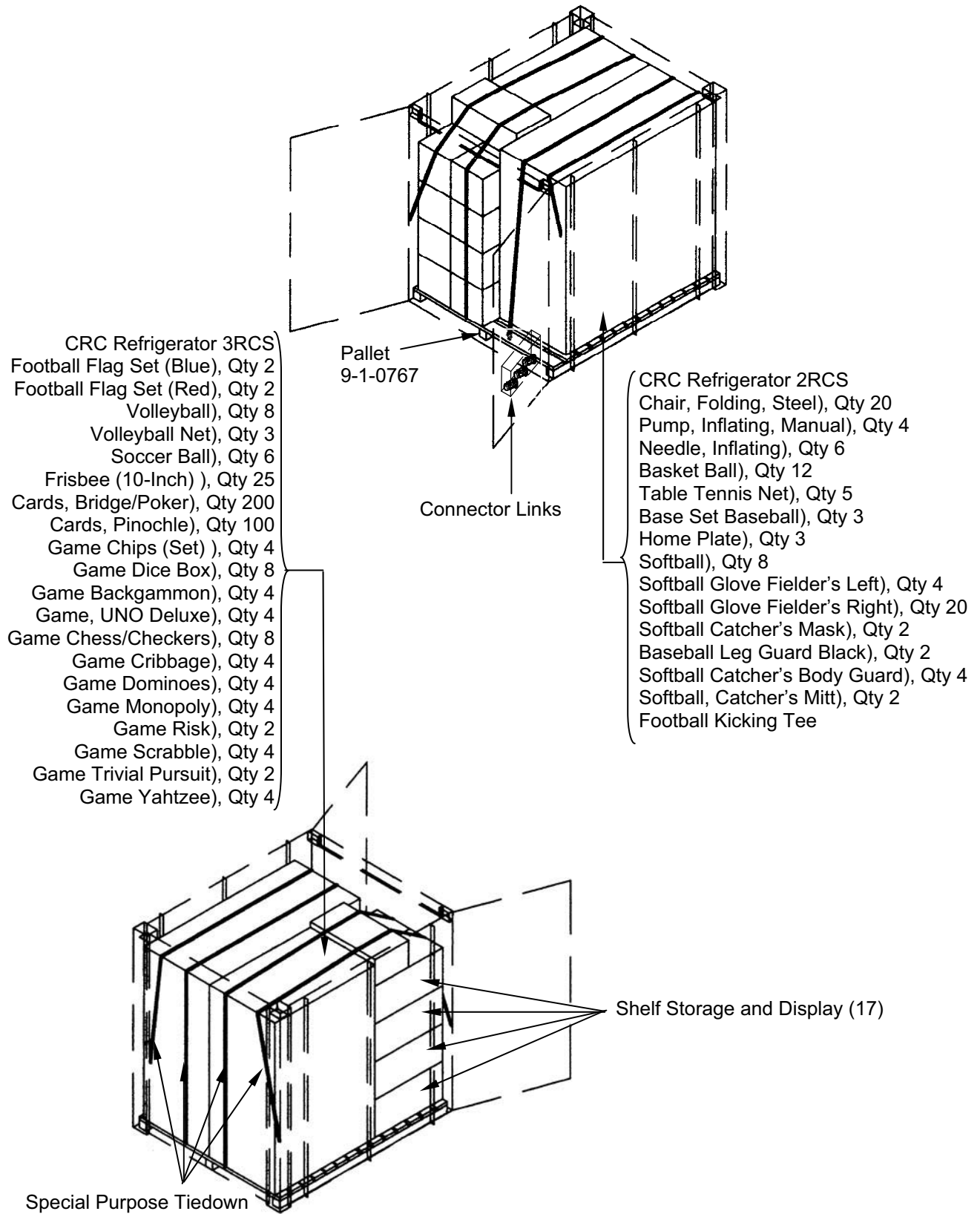


Figure 2. Field Packing Of MWR Kit Part B Type 11G.

**FIELD PACKING OF MWR KIT PART C TYPE 11H**

This paragraph provides information to pack equipment into TRICON 11H. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one type 11H TRICON. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 11H refer to Table 3, WP 0034 00.  
 For information and illustrations of MWR equipment refer to WP 0034 00 and WP 0096 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

Prepare contents of TRICON 11H for packing as follows:

1. Locate the following items in the quantities specified:

**Table 9. Weightlifting Equipment.**

Item	NSN/PN/(CAGE)	Quantity
Dumbbell, 5 Lb	7830-01-468-5801	2
Dumbbell, 10 Lb	7830-01-468-5802	2
Dumbbell, 15 Lb	7830-01-468-5807	6
Dumbbell, 20 Lb	7830-01-468-5812	6
Dumbbell, 25 Lb	7830-01-468-5816	6
Dumbbell, 30 Lb	7830-01-468-5823	6
Dumbbell, 35 Lb	7830-01-468-5832	6
Dumbbell, 40 Lb	7830-01-468-5833	6
Dumbbell, 45 Lb	7830-01-468-5836	6
Dumbbell, 50 Lb	7830-01-468-5837	6
Dumbbell, 55 Lb	7830-01-468-5840	6
Dumbbell, 60 Lb	7830-01-468-5844	2
Dumbbell, 65 Lb	7830-01-468-5847	2
Dumbbell, 70 Lb	7830-01-468-5849	2
Dumbbell, 75 Lb	7830-01-468-5853	2
Dumbbell, 80 Lb	7830-01-468-5858	2
Dumbbell, 85 Lb	7830-01-468-5860	2
Dumbbell, 90 Lb	7830-01-468-5863	2
Dumbbell, 95 Lb	7830-01-468-5867	2
Dumbbell, 100 Lb	7830-01-468-5875	2
Barbell, Plate Holder, Olympic	7830-01-468-6117	2
Barbell, International Curl Bar	7830-01-055-8565	2
Barbell, 6 Ft, Chrome Bar	7830-01-468-6087	2
Barbell Spring Collar	7830-01-468-6089	2
Dumbbell Rack with Cradles	01811100 (0fzp5)	3
Wrap Pad, Bar, Gymnastics	7830-01-468-6110	3
Belt, Weight Lifting, Small	7830-01-468-7267	3
Belt, Weight Lifting, Medium	7830-01-468-7273	3
Belt, Weight Lifting, Large	7830-01-468-7282	3
Belt, Weight Lifting, Extra Large	7830-01-468-7301	3

2. Locate three sets of barbell plates, gymnastics. Each set includes the following sub-components per set:

**Table 10. Barbell Plates.**

Item	NSN/PN/(CAGE)	Quantity
Barbell, 7 Ft Long X 2 In GG-Chub	/1500/(Ofzp5)	1
Plate, Barbell, 2.5 Lb	/Plate2.5/(Ofzp5)	2
Plate, Barbell, 5 Lb	/Plate5.0/(Ofzp5)	4
Plate, Barbell, 10 Lb	/Plate10/(Ofzp5)	2
Plate, Barbell, 25 Lb	/Plate25/(Ofzp5)	2
Plate, Barbell, 35 Lb	/Plate35/(Ofzp5)	2
Plate, Barbell, 45 Lb	/Plate45/(Ofzp5)	2

3. Retrieve the reusable wooden box that should have been retained in TRICON 11H for packing of the weightlifting equipment. If the box is no longer available, fabricate a new box as described in drawing 9-1-0770 (81337). Refer to WP 0003 00.
4. When packing the box, use honeycomb to make a tight pack that prevents any movement of the weights inside the box during transport.
5. Locate fifty-five each chairs, folding, steel. Stack chairs in thirteen groups of four and one of three.
6. Separate each chair with protective paper. Place each group of chairs inside the original shipping box, or a separate tightly fitting fiberboard box with exterior dimensions not to exceed 18-inches long x 11-inches wide x 39<sup>1</sup>/<sub>2</sub>-inches acceptable. Secure boxes with tape.
7. Where three chairs are packed in a four-chair box, pack adequate dunnage to prevent movement of the chairs within the box. Secure box with tape.
8. Locate two basketball, portable, goal and stand and prepare as described below. Each basketball, portable, goal and stand consists of the following components:

**Table 11. Basketball Equipment.**

Item	NSN/PN/(CAGE)	Quantity
Backboard, Basketball	/11401118/(Ofzp5)	1
Base, Basketball	//(Ofzp5)	1
Pole, Basketball	/20020801/(Ofzp5)	1
Support, Basketball	//(Ofzp5)	1
Pad, Pole, Basketball	/GG-MSBBRPAD/(Ofzp5)	1
Pad, Base, Basket Ball	/ GG-MSBBCOVX/(Ofzp5)	1

- a. Place backboard support structure, and pole and base pad, each into their original shipping box, or a new close fitting fiberboard box.
- b. Secure boxes with tape.

**Packing Procedures for TRICON Type 11H**

The following packing materials and other items are required to pack TRICON Type 11H:

**Table 12. TRICON Type 11H Packing Materials.**

Item	Qty
Pad, Energy Dissipating, 3-inch thick (Honeycomb), NSN 1670-00-753-3928	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required

**Table 12. TRICON Type 11H Packing Materials – Continued.**

Item	Qty
Special purpose web tiedowns NSN 3990-01-204-3009	6
Shelf, Shipping and Storage NSN 8145-01-503-4404	4
Shoring Beam NSN 9540-01-491-3804	8
Reusable Box 9-1-0770 (81337)	1
Fiberboard Sheet, 4 x 8-foot	As required

1. Locate TRICON with “MWR KIT PART C; CO. TYPE 11H...” stenciled on the left door.
2. Open doors and remove everything from container. Ensure interior is clean and dry. Check latches to ensure free operation.
3. Locate two each tiedown straps and attach the non ratchet end of each strap to the last floor tiedown on each side of the TRICON. Place the other end of the strap out of the way so that the reusable box containing the weightlifting equipment can be moved inside the TRICON.
4. Using a forklift, position the reusable box inside the container. Cross the straps over the box and connect the ratcheted end of the straps to the front set of floor tiedown loops. Ensure that the straps are properly tightened and are not twisted and/or caught up on any obstruction. Fold and secure any remaining portion of the strap using nylon zip ties.
5. Locate four each TRICON shelf support brackets and install one on each vertical upright so that the bottom of the bracket is aligned with the paint mark just above the crate. Install the shelf assemblies on top of the brackets.
6. Locate two each tiedown straps and attach the non ratchet end of each to the available, rear left and right tiedowns in the rear of the TRICON as shown. Place the other ends of the strap out of the way to facilitate packing of the shelf.
7. Locate the fourteen each boxes of chairs packed previously. Position the boxes sideways on the rear of the shelf, as shown.
8. Locate the two each portable basketball sets. Remove the rims, extension arms, and pole padding from the set. Pack them in between the chair boxes, as shown.
9. Cross the tiedown straps across the front of the items and ratchet straps tightly around the bundle. Ensure that items are secure. Fold and secure any remaining portion of the strap using nylon zip ties.
10. Place the base, basketball on the shelf in front of the stacked chair boxes. Secure the bases with a tiedown strap. Ensure that items are secure. Fold and secure rest of the strap with nylon zip ties.
11. Locate four each TRICON shelf support brackets and install one on each vertical upright so that the bottom of the bracket is aligned with the paint mark just above the stacked chair boxes crate. Install the shelf assemblies on top of the brackets.
12. Locate the backboards and poles of the portable basketball sets and place them on the shelf. Secure the bases with a tiedown strap. Ensure that items are secure. Neatly fold and secure any remaining portion of the strap to the tiedown and secure in place using nylon zip ties, as shown.
13. Install honeycomb , cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
14. Ensure that three TRICON connectors are located in the holder on the lower inside of the right hand TRICON door.



15. Close and secure TRICON doors.

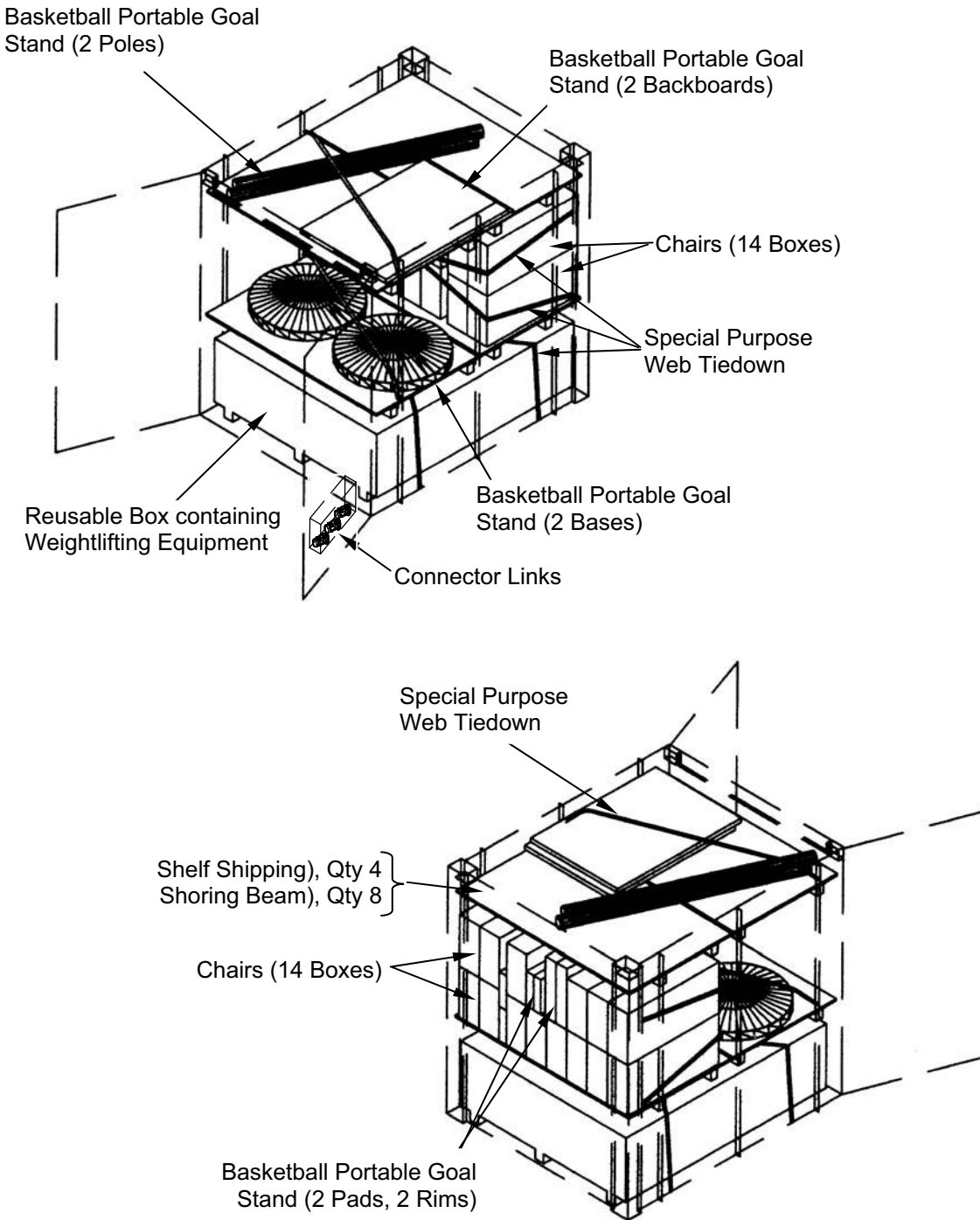


Figure 3. Field Packing Of MWR Kit Part C Type 11H.

**FIELD PACKING OF MWR TENT KIT TYPE 12A**

This paragraph provides information to pack equipment into TRICON Type 12A. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into designated containers, and maintain uniformity of similar TRICON. The following procedures are for field packing one of two identical TRICON, Type 12A. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 12A refer to Table 4, WP 0034 00.  
 For information and illustrations of TEMPER components refer to TM 10-8340-224-13.  
 For information and illustrations of PDISE-M100 and associated components refer to TM 9-6150-226-13.  
 For information and illustrations of other MWR components refer to WP 0034 00 and WP 0096 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

Locate the components of the Type XVII, 64-foot TEMPER previously set aside and prepare them for packing into TRICON 12A as described below.

To prepare Tent Bundle #1, locate the following items:

**Table 13. Tent Bundle #1.**

Item	Quantity
End Section, D/T	1
Window Section, D/T	1
Floor Section, Single Ply, 8-foot	2
Tent Fly, 16-foot, D/T	1
Cover, Tent, TEMPER	1

1. On a clean flat surface, neatly fold each of the first four items into a flat compact package that is 36-inches long by 36-inches wide. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Sequential identification stencil must be visible, i.e., "Tent Bundle 1 of 8", "Tent 1, Bundle 2 of 8".
6. Repeat steps 1 through 5 above until 2 identical bundles are complete.

To prepare Tent Bundle #2, locate the following items:

**Table 14. Tent Bundle #2.**

Item	Quantity
Window Section, D/T	1
Door Section, TEMPER	1
Floor Section, Single Ply, 8-foot	2
Tent Fly, 16-foot, D/T	1
Plenum, Extendable, TEMPER	1
Cover, Tent, TEMPER	1

1. On a clean flat surface, neatly fold each of the first five items into a flat compact package that is 36-inches long by 36-inches wide. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent Bundle 3 of 8", "Tent 1, Tent Bundle 4 of 8".
6. Repeat steps 1 through 5 above until 2 identical bundles are complete.

To prepare Tent Bundle #3, locate the following items:

**Table 15. Tent Bundle #3.**

Item	Quantity
Door Section, TEMPER	1
Vestibule TEMPER w/Door	2
Plenum, End Wall, 16-ft TEMPER	2
Container, Tent Pin, TEMPER	3
Cover, Tent, TEMPER	1

1. On a clean flat surface, neatly fold each of the first four items into a flat compact package that is 36-inches long by 36-inches wide. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent Bundle 5 of 8".

To prepare Tent Bundle #4, locate the following items:

**Table 16. Tent Bundle #4.**

Item	Quantity
Window Section, TEMPER	1
Vestibule Container	2
Intermediate Liner TEMPER	4
Vestibule Floor Single Ply TEMPER	2
Cover, Tent, TEMPER	1

1. On a clean flat surface, neatly fold each of the first four items into a flat compact package that is 36-inches long by 36-inches wide. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.

3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent Bundle 6 of 8".

To prepare Tent Bundle #5, locate the following items:

**Table 17. Tent Bundle #5.**

Item	Quantity
End Section Liner, Temperate	2
Intermediate Liner TEMPER	2
Tent Pin Container	1
Cover, Tent, TEMPER	1

1. On a clean flat surface, neatly fold each of the first three items into a flat compact package that is 36-inches long by 36-inches wide. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent Bundle 7 of 8".

To prepare Tent Bundle #6, locate the following items:

**Table 18. Tent Bundle #6.**

Item	Quantity
Vestibule, TEMPER w/Door	1
Vestibule Container	1
Vestibule Floor, Single Ply	1
Partition, TEMPER	3
Cover, Tent, TEMPER	1

1. On a clean flat surface, neatly fold each of the first four items into a flat compact package that is 36-inches long by 36-inches wide. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent Bundle 8 of 8".

To prepare the end section frame assembly bundle, locate the following items:

**Table 19. End Section Frame Assembly.**

Item	Quantity
Arch Assembly	2
Transport Storage Cover	1
Header Assembly	2
Purlin Assembly	5
Eave Extender	4
Ridge Extender	2

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17- inches wide x 8-inches tall.
7. Ensure marking on transport storage cover “End Section Frame Assembly” is visible.

To prepare the window section frame assembly bundles, locate the following items:

**Table 20. Window Section Frame Assembly.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender Assembly	1
Transport Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17- inches wide x 8-inches tall.
7. Ensure marking on transport storage cover “End Section Frame Assembly” is visible.
8. Repeat steps 1 through 7 above until 4 identical bundles are complete.

To prepare the door section frame assembly bundles, locate the following items:

**Table 21. Door Section Frame Assembly.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	3
Purlin Assembly, Door Sill	2
Eave Extender Assembly	2
Ridge Extender Assembly	1
Transport Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17- inches wide x 8-inches tall.
7. Ensure marking on transport storage cover “Door Section Frame Assembly” is visible.
8. Repeat steps 1 through 7 above until 3 identical bundles are complete.

Locate three vestibule frame assemblies, each consisting of the following components:

**Table 22. Vestibule Frame Assembly.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

1. Locate one vestibule frame container.
2. Place three vestibule frame assemblies inside the vestibule frame container. Place cushioning material between any metal parts that contact each other in the container. Secure with tape.
3. Ensure marking on vestibule frame container “Vestibule Frame Assembly Qty 3” is visible.

Retrieve, or fabricate, if no longer available, four, each wooden tent pin boxes. Locate 106 each 12-inch steel tent pins. Place 26 steel tent pins into two of the four boxes, and 27 more into the two remaining boxes. Tack each corner of the top with a nail, and secure each box with steel strapping.

Locate three fabric tent pin containers and 54 wood tent pins. Place 18 wood tent pins inside each container. Secure each container with tie provided.

Locate four fluorescent light sets. Place each light set into an original manufacturer’s box, if available, or a fiberboard box with exterior dimensions not to exceed 75½-inches long x 22-inches wide x 7-inches high. Secure boxes with tape.

Locate two TEMPER distribution box stands and wrap both ends with cushioning material. Secure with tape. Wrap fiberboard around the center mounting plate and secure it in place with tape.

Prepare two TEMPER Distribution Box Assemblies, each consisting of the following items:

**Table 23. TEMPER Distribution Box Assembly.**

Item	Quantity
TEMPER Electrical Distribution Box	1
Cable Assembly, Light, 173-in	1
Cable Assembly, Light, 103-in	1
Cable Assembly, Outlet, 254-in	2
Cable Assembly, Outlet, 156-in	2

1. Record the serial number of the distribution box.
2. Completely wrap the temper electrical distribution box in cushioning material. Secure cushioning material in place with tape.
3. Wrap the temper electrical distribution box in barrier material. Secure in place with tape.
4. Record serial number on outside of wrapped distribution box.
5. Wrap the connectors on each end of the cables in two layers of cushioning material and secure in place with tape.
6. Wrap each connector end in barrier material. Secure in place with tape.
7. Coil each assembly and secure with twine or cable ties.
8. Repeat steps 1 through 7 above to package the second distribution box.

Locate four TEMPER convenience outlet assemblies, 3-drop. Wrap each convenience outlet in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine or cable ties.

Locate two fire extinguishers. Wrap each fire extinguisher in cushioning material and secure with tape. Place each fire extinguisher into original shipping box, if available, or close fitting fiberboard box. Secure box with tape.

Locate one each technical manual TM 10-8340-224-13 and TM 10-8340-224-23P. Place each of the manuals into a bag made of barrier material. Seal with tape.

Obtain 10 each footlockers from the billeting subsystem and prepare for packing as follows:

1. Locate two footlockers. Place one each TEMPER electrical distribution box, as prepared previously, and two each TEMPER convenience outlet assemblies, 3 drop, as prepared previously inside each footlocker. Use cushioning material to fill empty space as necessary. Secure the lid and place each locker inside its original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inches long x 21-Inches wide x 13-inches high may be used. Secure boxes with tape.
2. Locate one footlocker. Place two each fire extinguishers as prepared previously and technical manuals TM 10-8340-224-13 and TM 5-6150-226-13P as prepared previously inside the locker. Use cushioning material to fill empty space as necessary. Secure the lid and place each locker inside its original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inches long x 21-Inches wide x 13-inches high may be used. Secure boxes with tape.

3. Locate remaining seven footlockers. Secure the lid and place each locker inside its original shipping box, if available. Other fiber boxes with exterior dimensions not to exceed 24-inches long x 21-inches wide x 13-inches high may be used. Secure boxes with tape.

Locate four 60-A/100-foot power cable assemblies.

1. Wrap the connectors on each end of the cable in two layer of cushioning material. Secure with tape.
2. Wrap each connector end in barrier material and secure with tape.
3. Neatly coil each assembly and secure with twine or cable ties.
4. Coiled assemblies should fit two each into the original shipping fiberboard container. Other fiberboard containers with the outer dimensions of 32½-inches long x 32½-inches wide x 9-inches high can also be used. A liner made of fiberboard shall be placed against the inside walls of the box. Secure box.

Locate one Electrical Feeder System PDISE-M100.

1. Ensure that all connector covers are installed and secured.
2. Wrap PDISE with cushion material and secure with tape.
3. Wrap PDISE with barrier material and secure with tape.
4. Place wrapped PDISE into original shipping, or appropriate replacement fiberboard container.
5. Place TM 9-6150-226-13 into container with PDISE and close the container with tape.
6. Locate two 100-A/50-foot service cables and one 100A/4-foot pigtail assembly.
7. Wrap connectors of cable and pigtail assemblies with cushioning material and secure with tape. Wrap connectors with barrier material and secure with tape.
8. Coil each cable and the pigtail assembly into a uniform coil with a diameter no more than 26- inches.
9. Locate eight cable carrying straps and secure each 50-foot cable coil with four straps.

Locate one sledge hammer and one wooden mallet. Wrap sledge hammer head with a minimum of two wraps of cushioning material and secure with tape. Place both the sledge hammer and the mallet inside a fiberboard container with outer dimensions not to exceed 40.5-inches long X 10-inches wide x 8-inches high. Fill voids within container using cushioning material to prevent contents from moving. Secure box.

Locate two floormats. Tightly roll each 32-foot floormat individually. Secure roll in two places with tape.

### NOTE

Do not prepare used or soiled cleaning equipment such as brooms and mop heads for packing. Dispose of these items locally.

Locate two shovels and two brooms (unused). Wrap each shovel head with a minimum of two wraps of cushioning material. Nest the two shovels together and secure with tape. Wrap the broom head in plastic sheet or protective paper and secure with tape.



## Packing Procedures for TRICON Type 12A

The following packing materials and other items are required to pack TRICON 12A:

**Table 24. TRICON Type 12A Packing Materials.**

Item, NSN	Qty
Pad, Energy Dissipating, 3-in Thick (Honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inches x 6-inches x 75-¾-inches long	3
Corrugated Fiberboard Stock, ASTM-D4727	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Twine, Cotton, Wrapping, T-T-871	As required

Use the following procedures to pack bottom layer of TRICON Type 12A:

1. Locate TRICON with "MWR TENT KIT; CO. TYPE 12A..." stenciled on the left door.
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate the eight tent fabric bundles. Place the bundles into the TRICON one at a time. Position the first four bundles on the floor and place the second four on top of them as shown. Ensure that the bundles do not interfere with the closing of the doors.
5. In the rear left corner of the container, place the two footlockers containing the TEMPER electrical distribution boxes and convenience outlet assemblies lengthwise on the bundles as shown.
6. Locate one TEMPER end frame section, and three TEMPER door section frames. Place the end section frame on the tent bundles running from the right corner to the left front corner. Place the three door section frames on top of the end frame sections. Center frames between the corners.
7. Locate four TEMPER window frame sections. Place the frame sections, one at a time on top of the frames already inside the TRICON. Ensure that the stack of frames is flat and stable. Bundles must not interfere with the closing of the doors.
8. Locate one 100A/50-foot service cable assembly and one 100A/4-foot pigtail, part of the electrical feeder system, PDISE-M100. Position them in the rear left corner of the TRICON between the trunk lockers and the tent frame sections as shown.
9. Locate the brooms and shovels, place on top of the trunk lockers in rear left corner of the container, use honeycomb to secure them in place.
10. Place the eight wood stake containers on the container floor in the front of the tent bundles, as shown.
11. Locate the two TEMPER electrical distribution box stands and lay stands flat on top of the tent frame bundles.
12. Locate the hammer/mallet box, and the two floormat rolls. Place the hammer/mallet box on the right side of the container with the floormat rolls on top.

13. Locate one 100A/50-foot service cable assembly, part of the electrical feeder system, PDISE-M100. Position the cable assembly on the tent bundles, in front of the tent frames, as shown.
14. Locate the box containing the electrical feeder system, PDISE-M100. Place the box in front of the hammer/mallet box as shown.
15. Locate four tent pin boxes containing pin, tent, steel, 18-inch as packed previously. Place on TRICON floor, in front edge of container, next to tent bundles.
16. Locate four each TRICON shelf support brackets and install one on each of the marked locations on the TRICON vertical uprights. When installed the bottom of the bracket should be 34 inches above the TRICON floor. Install two shelf assemblies on top of the brackets.
17. Locate the footlocker with the fire extinguisher and technical manuals, and seven empty footlockers. Place the lockers lengthwise on the right rear part of the shelf, forming two rows.
18. Locate four light set containers. Place three light set containers on its side, to the left of the footlockers. Place the one light set container on top of the truck lockers as shown.
19. Locate the two box assemblies containing four 60-A/100-foot power cable assemblies. Stack the two boxes on the right in front of the footlockers as shown.
20. Locate three vestibule frame bundles and place on top of the light set containers.
21. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) as necessary to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
22. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.

23. Close and secure TRICON doors.

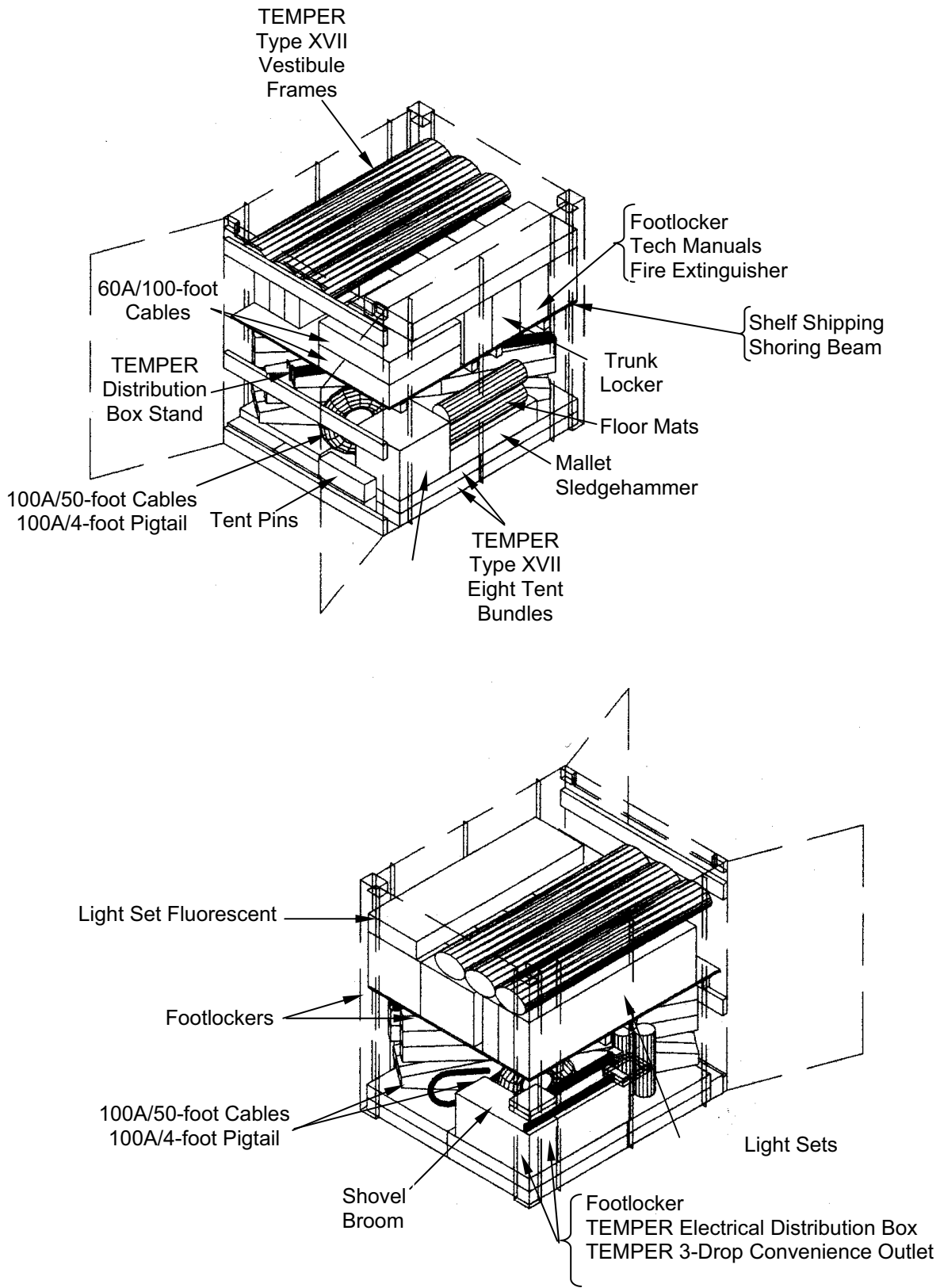


Figure 4. Field Packing MWR Tent Kit Type 12A.

**FIELD PACKING MWR/ADMINISTRATION SUPPORT KIT TYPE 12B**

This paragraph provides information to pack equipment into TRICON Type 12B. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON, Type 12B. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage, as applicable, retained during unpacking will be needed to repack equipment for storage or shipment.

**Pertinent References:**

For a complete inventory of TRICON Type 12B refer to Table 5, WP 0034 00.  
 For information and illustrations of other MWR components refer to WP 0034 00 and WP 0096 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

Prepare contents of TRICON 12B for packing as described below.

1. Locate five each barber kits. Wrap individual items in cushioning material and place kits inside original fiberboard box, or a new close fitting fiberboard container. Secure box with tape.
2. Locate 10 steel folding chairs and stack in one group of four and two groups of three. Separate each chair with protective paper. Pack as follows:
  - a. Place each group of chairs inside manufacturer’s original box, or a new tightly fitting fiberboard box with exterior dimensions not to exceed 18-inches long x 11-inches wide x 39<sup>1</sup>/<sub>2</sub>-inches high.
  - b. Where three chairs are packed in a four-chair box, pack adequate dunnage to prevent movement of the chairs within the box. Secure boxes with tape.
3. Locate six aluminum folding tables, 6-foot long. Place each table inside manufacturer’s original box if available, or a close fitting fiberboard container with outer dimensions of 75-inches long x 32.5-inches wide x 9-inches high. Secure box with tape.
4. Locate two benches, 6 foot long. Place each bench inside manufacturer’s original box if available, or a fiberboard container with the following outer dimensions: 73-in long x 14.5-in wide x 3<sup>1</sup>/<sub>2</sub>-in high. Secure the box with tape.
5. Locate 30 each cover, can, ash and garbage. Create a group of ten, separating each cover with a sheet of protective paper. Place each group of 10 covers into a fiberboard container with the following outside dimensions: 21<sup>1</sup>/<sub>2</sub> -inches x 21<sup>1</sup>/<sub>2</sub> -inches x 10-inches. Close each container with tape.
6. Locate 30 each 32-Gallon, galvanized steel ash and garbage cans. Nest the cans together in groups of 10. Place dunnage in between the cans, as necessary, to prevent cans from jamming together.
7. Locate seven double bump-through doors and place each door into the manufacturer’s original box, if available, or a close fitting fiberboard container with the following outside dimensions: 83-inches x 67-inches x 3-inches. Close each container with tape.

**Packing Procedures for TRICON Type 12B**

The following packing materials and other items are required to pack TRICON 12B:

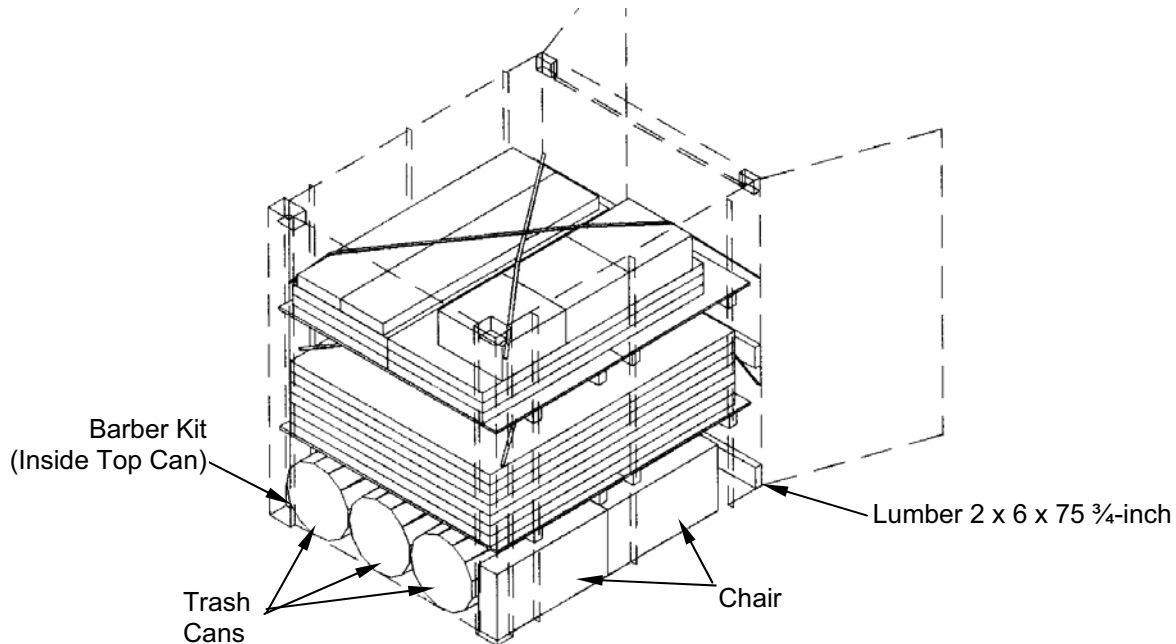
**Table 25. TRICON Type 12B Packing Materials.**

Item	Qty
Pad, Energy Dissipating, 3-in Thick (Honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2 x 6 x 75 <sup>3</sup> / <sub>4</sub> -inch	1

**Table 25. TRICON Type 12B Packing Materials - Continued.**

Item	Qty
Special purpose web tiedowns NSN3990-01-204-3009	3
Corrugated Fiberboard Stock, ASTM-D4727 4-foot x 8-foot	4
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required

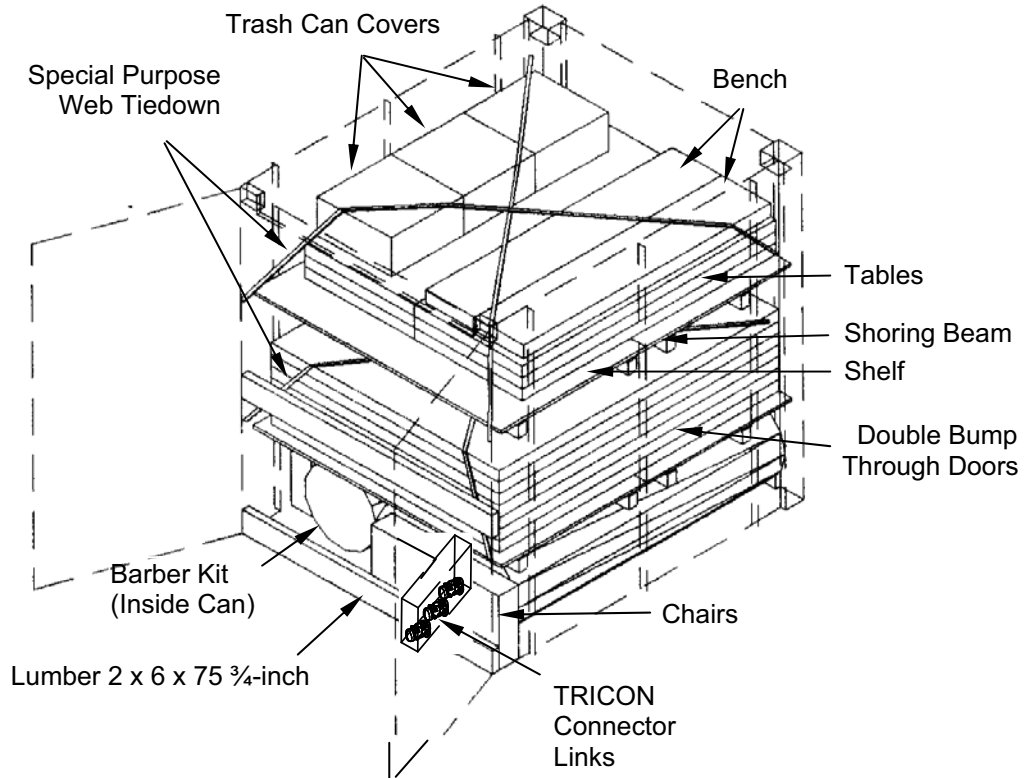
1. Locate TRICON with "MWR/ADMIN SUPPORT KIT; CO. TYPE 12B..." stenciled on the left door.
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate thirty can, ash and garbage, 32-Gallon, steel, galvanized, stacked in three groups of ten each. Position the three sets of ten trash cans on their sides on the container floor. The open end should face the TRICON doors.
5. Locate five barber kits and place them in the last trash can of each set of ten cans until all kits are packed. Use honeycomb material to create a tight and secure pack.
6. Locate the three boxes of ten chair, folding, steel. Place two boxes on side, on the right side of the containers, next to the can, ash, and garbage. Place one box of chairs, on edge, in front of the can, ash, and garbage. Place honeycomb material to fill voids, creating a tight and secure pack.
7. Place two 2-inch x 6-inch x 75<sup>3</sup>/<sub>4</sub>-inch cross beams in front of this level.



8. Locate four TRICON shoring beams. Install them on the vertical uprights at the height marked.
9. Locate two shelf, shipping and storage. Install the two shelf assemblies on top of the beams.

10. Locate two special purpose web tiedowns. Connect the non-ratchet end of the straps to the rear vertical tiedown loops, right above the shelf. Locate ends of the straps out of the way to facilitate loading of the container.
11. Locate seven double bump-through doors. Place the doors flat on the shelf. Cross the tiedown straps over the doors, securing the ends of the tie downs to the front vertical tiedown bars, as shown. Neatly fold the loose ends of the straps and secure with nylon cable zip ties.
12. Locate four TRICON shoring beams. Install them so that they are connected to the vertical uprights at the height marked.
13. Locate two shelf, shipping and storage. Install the two shelf assemblies on top of the beams.
14. Locate two special purpose web tiedowns. Connect the non-ratchet end of the straps to the rear vertical tiedown loops, right above the shelf. Locate ends of the straps out of the way to facilitate loading of the container.
15. Locate six table, folding, 6-foot, aluminum. Stack on top shelf, in two stacks of three.
16. Locate two 6-foot benches. Place them on top of the tables, on left side of container.
17. Locate three boxes containing thirty each covers, can, ash, and garbage. Place on top of table, on the right side of the container, next to the benches.
18. Cross the tie down strap over the items on this shelf, and secure it to the front vertical tiedown bar as shown. Neatly fold the loose ends of the straps and secure with nylon cable zip ties. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
19. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.

20. Close and secure TRICON doors.



**FIELD PACKING MWR ADMIN ECU KIT TYPE 12C**

This paragraph provides information to pack equipment into TRICON Type 12C. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into the TRICON, and maintain uniformity of similar TRICON. The following procedures are for field packing one of five TRICON Type 12C. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage, as applicable, retained during unpacking will be needed to repack equipment for storage or shipment.

**Pertinent References:**

- For a complete inventory of TRICON Type 12C refer to Table 6, WP 0034 00.
- For illustrations of the ECU refer to PREPARATION FOR MOVEMENT OF MWR/ADMINISTRATION ECU in this WP.
- For information and illustrations of other MWR equipment refer to WP 0034 00 and WP 0096 00.
- For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

1. Locate 14 steel folding chairs and stack in three groups of four and one group of two. Separate each chair with protective paper. Pack as follows:
  - a. Place each group of chairs inside manufacturer's original box, or a new tightly fitting fiberboard box with exterior dimensions not to exceed 18-inches long x 11-inches wide x 39<sup>1</sup>/<sub>2</sub>-inches high.
  - b. Where two chairs are packed in a four-chair box, pack adequate dunnage to prevent movement of the chairs within the box. Secure boxes with tape.
2. Locate one pair, glove, inset, cotton and two debris screens, air conditioning duct. Place each item in

- a separate bag made with barrier material and seal with tape.
- 3. Locate ten footlockers. Place items prepared in 2, above into one footlocker. Fill empty spaces in footlocker with barrier paper.
- 4. Secure the lid of the footlocker packed above and the remaining nine empty footlockers. Place each footlocker into an original manufacturer's box, if available, or a close fitting fiberboard box with exterior dimensions not to exceed 24-inches long x 21-inches wide x 13 inches high. Secure boxes with tape.
- 5. Locate one tripod floodlight, 1,000W and one extension cord, 50-foot, #12 AWG. Pack Floodlight as described in WP 0051 00.

**Packing Procedures for TRICON Type 12C**

The following materials and items are required to pack TRICON 12C:

**Table 26. TRICON Type 12C Packing Materials.**

Item	Qty
Pad, Energy Dissipating, 3-in Thick (Honeycomb), NSN 1670-00-753-3928	As required
Lumber, 2-inch X 6-inch X 75 ¾-inch Long	1
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4
Special purpose web tiedowns NSN3990-01-204-3009	4
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required

- 1. Locate TRICON with "MWR/ADMIN ECU KIT; CO. TYPE 12C..." stenciled on the left door.
- 2. Open doors and remove everything from container. Ensure interior is clean and dry.
- 3. Install the rear two upper shelf supports in the positions marked, so that the distance from the floor to the shelf bottom is 74-inches.
- 4. Place one shelf on the supports, to the rear of the container. Install one layer of honeycomb dunnage between the knuckles at the rear of the container, above the shelf to provide a flush surface at the rear of the container, above the shelf.
- 5. Place three footlockers on the shelf, all the way against the rear container wall. Ensure that item markings are facing forward.
- 6. Place one footlocker with one pair, glove, inset, cotton and two debris screens, as prepared previously in front of the first row of footlockers against the right sidewall of the container. Ensure that item markings are facing forward.
- 7. Place two footlockers in front of the first row of lockers against the left sidewall and in the center of the TRICON. Ensure that item markings are facing forward.
- 8. Install front two shelf supports at the same height as the two existing, and place one shelf against the rear shelf to provide one level surface at the same elevation.
- 9. Fill voids with honeycomb dunnage to ensure that items will not shift during transport. Install one 2-inches x 6-inches x 75¾-inches piece of lumber fitted to the dunnage to prevent forward movement of the boxes and dunnage on the shelf.



10. Locate ECU pallet previously assembled.
11. Locate four footlockers. Place footlockers onto the rear of ECU pallet as shown.
12. Locate four boxes of chairs. Place the boxes upright, on the left side, of ECU pallet, as shown. Place the box with the two chairs as one of the middle boxes.
13. Locate one box containing the 1,000W floodlight with extension cord, 50-foot, #12 AWG, as previously prepared. Place box upright, on the right side, of ECU pallet as shown.
14. Locate two special purpose web tiedowns and connect the un-ratcheted ends to the rear tiedown loops approximately three feet above the TRICON floor. Temporarily locate tiedown straps out of the way to facilitate loading of the ECU pallet into the TRICON.
15. Using a forklift, position the ECU pallet inside the TRICON. Block and brace between the pallet and TRICON side and rear walls as necessary to prevent side-to-side or lateral movement. Cross the straps over the ECUs and fasten the ratcheted ends to the tiedown loops at the front of the TRICON approximately two feet above the floor. Ensure that the straps are properly tightened, are not twisted, and/or caught up on any obstruction. Neatly fold ends of tiedown straps and secure with nylon zip ties.
16. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
17. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand container door.
18. Close and secure TRICON doors.

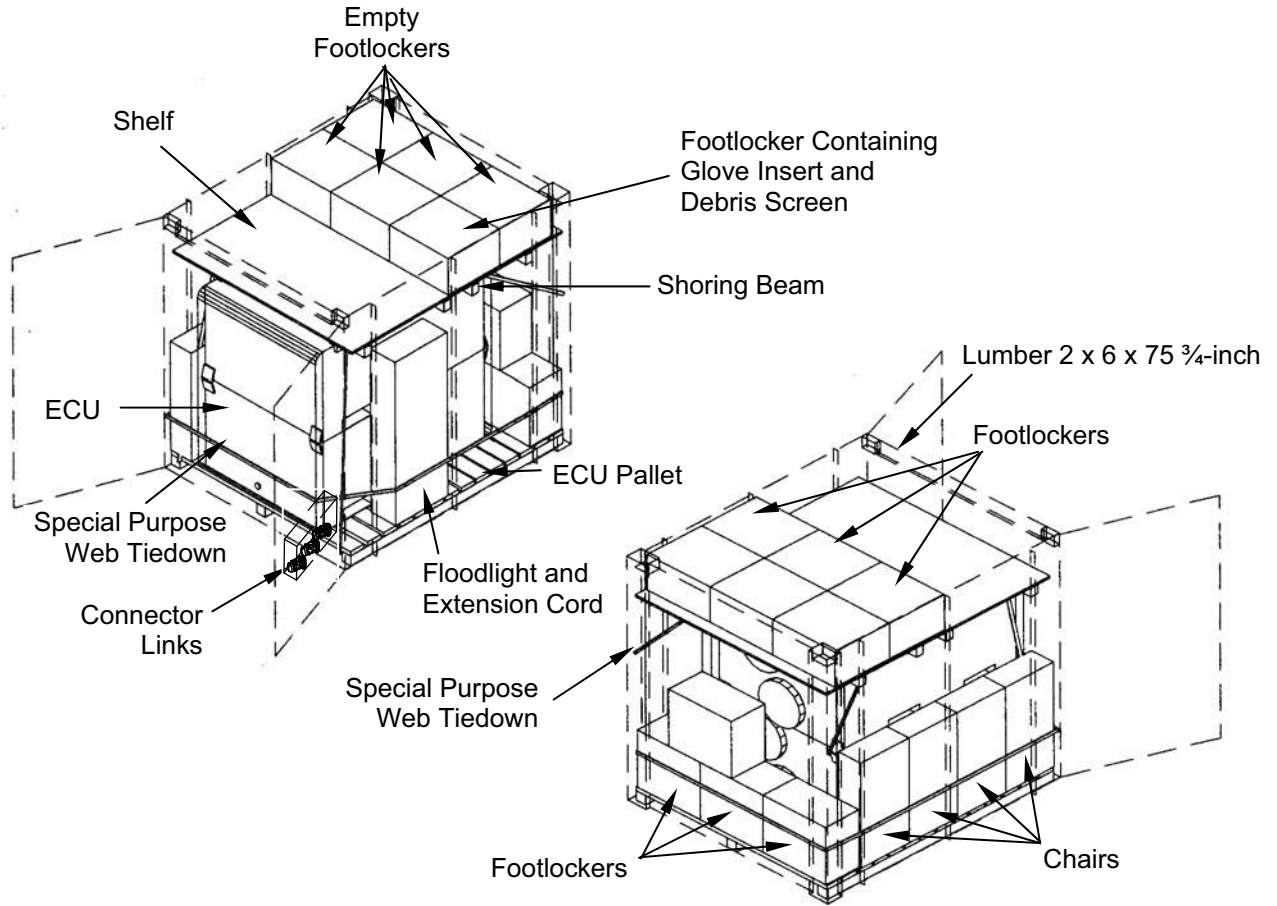


Figure 6. Field Packing MWR/Admin ECU Kit Type 12C.

END OF WORK PACKAGE

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**FORCE PROVIDER**  
**PREPARATION FOR MOVEMENT - FLOODLIGHT SUBSYSTEM**


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**GENERAL**

Following are instructions for the preparation for movement and field packing of the floodlight subsystem equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed. Refer to WP 0035 00 and WP 0097 00 for equipment illustrations, as necessary.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL (TM 10-5419-206-23P, WP 0002 00).

**PREPARATION FOR MOVEMENT OF FLOODLIGHT EQUIPMENT**

The following procedures outline the steps to prepare the floodlight equipment for movement.




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**WARNING**


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Ensure floodlight power cord is disconnected from power source before disassembling the floodlights. Failure to observe this warning may result in severe injury or death by electrocution.

To disassemble the floodlights, proceed as follows:

1. Disconnect floodlight power cable from 50-foot extension cord.
2. Disconnect 50-foot extension cord from power source.




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**WARNING**


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Let floodlight cool down before attempting to remove the halogen bulb. Failure to observe this warning may result in injury from burn.

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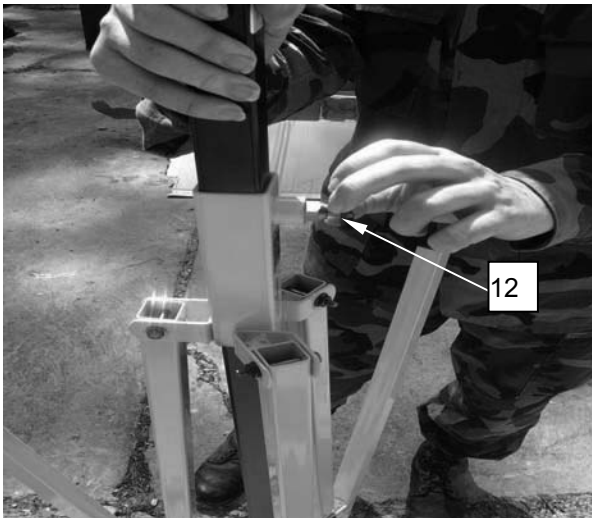
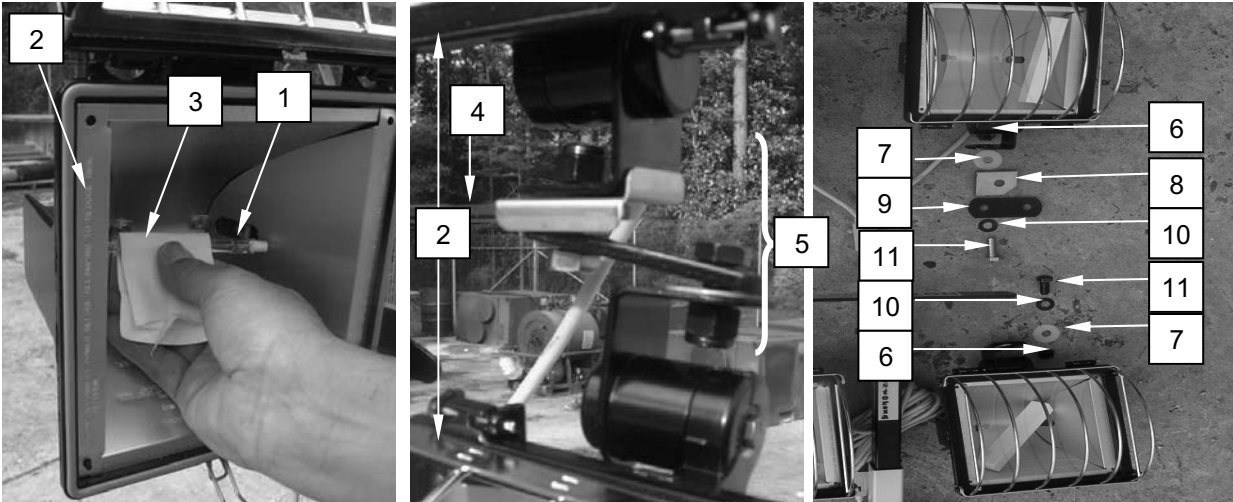
**CAUTION**


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Flood light lamps will be damaged if touched with bare hands. Use cloth or gloves to remove lamps.

3. After light has cooled down, remove halogen light bulbs (1) from light heads(2) using the cotton glove insert furnished or a piece of cotton cloth (3). Place bulbs in original box or wrap in protective paper and seal with tape.
4. Remove light heads (2) from the mounting bar (4) by removing mounting hardware (5) consisting of the hex nuts (6), nylon washers (7), rotating stop (8), light head adapter bar (9), washers (10), and mounting bolts (11).
5. Wrap mounting hardware (5) into protective paper and seal with tape.
6. Lower the mast by pulling the upper plunger and allowing the mast to return to its lowest position.

7. Fold the leg assembly by pulling the lower plunger (12) and allowing the assembly to fold against the mast.
8. Place the floodlight tripod with one extension cord, 50-foot #12AWG/3, the wrapped mounting hardware, and the packaged halogen bulbs inside the original fiberboard box, or a new box with exterior dimensions not to exceed 57-inches long X 21-inches wide x 9-inches high. Place additional protective paper into the box to take up any empty space.



9. Place packed floodlights into TRICON indicated in Table 1, below. Refer to packing instructions for appropriate TRICON for proper placement of packed floodlights into each TRICON.
10. Pack unused system support package assets in original shipping boxes into TRICON 11D as shown in WP 0050 00.

Table 1. Floodlight Equipment Shipping Breakdown.

Component	(Number) Shipped in TRICON	(Number) Shipped as System Support Package in TRICON
FLOODLIGHT, PORTABLE, 2-LIGHT SET, HEAVY DUTY (9-1-0769-1)	(1)04C-1 (1)01B-15 (1)01B-11 (1)12C-3 (1)03B-1 (1)01B-10 (1)12C-2 (1)01B-4 (1)01B-12 (1)12C-5 (1)01B-3 (1)01B-7 (1)12C-4 (1)01B-6 (1)01B-9 (1)12C-1 (1)01B-5 (1)01B-8 (1)01B-14 (1)01B-1 (1)10E-2 (1)01B-13 (1)01B-2 (1)10E-1 (1)03B-2	(3)11D-1
FLOODLIGHT, PORTABLE, 4-LIGHT SET, HEAVY DUTY (9-1-0769-2)	(1)04C-1 (1)01B-15 (1)01B-11 (1)03B-2 (1)03B-1 (1)01B-10 (1)01B-4 (1)01B-12 (1)01B-3 (1)01B-7 (1)01B-6 (1)01B-9 (1)01B-5 (1)01B-8 (1)01B-14 (1)01B-1 (1)10E-2 (1)01B-13 (1)01B-2 (1)10E-1	(2)11D-1
LIGHT HEAD ASSEMBLY (REPLACEMENT)		(10)11D-1
BULB, HALOGEN, 500W (REPLACEMENT)		(50)11D-1
EXTENSION CORD, 50-FOOT, #12 AWG/3 (9-1-0856-1) (REPLACEMENT)		(5)11D-1
GLOVE, INSERT, COTTON, PR NSN 8415-00-782-2809 (REPLACEMENT)		(6)11D-1

END OF WORK PACKAGE



**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - MODIFICATION SYSTEM POWER GENERATION**

**GENERAL**

Following are instructions for the preparation for movement and field packing of the Modification System Power Generation (MSPG) equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed. Refer to WP 0036 00 and WP 0098 00 for equipment illustrations, if needed.

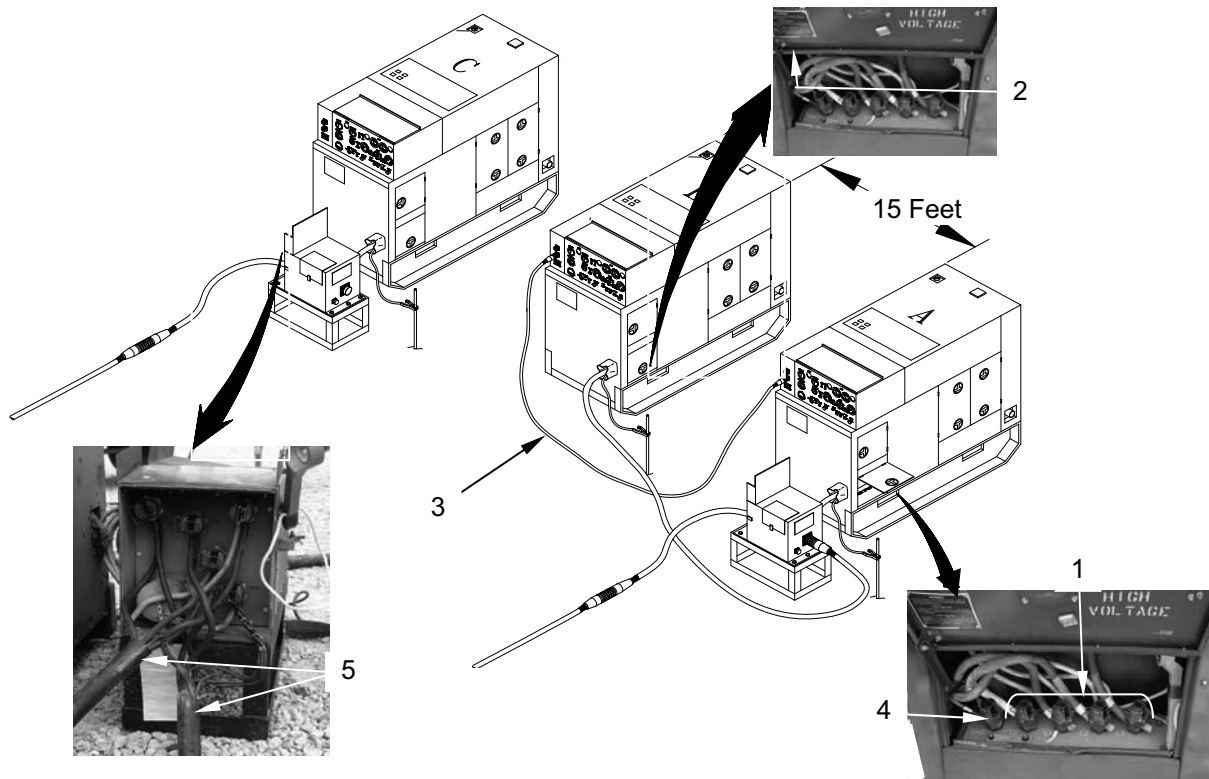
Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Replace damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON covered in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL (TM 10-5419-206-23P, WP 0002 00).

**PREPARATION FOR MOVEMENT OF POWER GENERATION EQUIPMENT**

The following procedures describe the preparation for movement of one power generation cluster. Coordinate the shutdown of each power generation cluster with personnel of the serviced subsystems to ensure power is available as long as needed.

1. Shut down both, on-line Tactical Quiet Generators (TQG) in accordance with TM 9-6115-645-10.
2. Remove load pigtails (1), control (2), parallel (3), and ground cables (4) from TQGs.
3. Place parallel cables in the storage box inside the battery access doors of the TQG.
4. Place 60kW power cable with the B Unit TQG.
5. Disconnect 100A-4-foot pigtails (5) from switch box and prepare TQGs for movement in accordance with TM 9-6115-645-10.



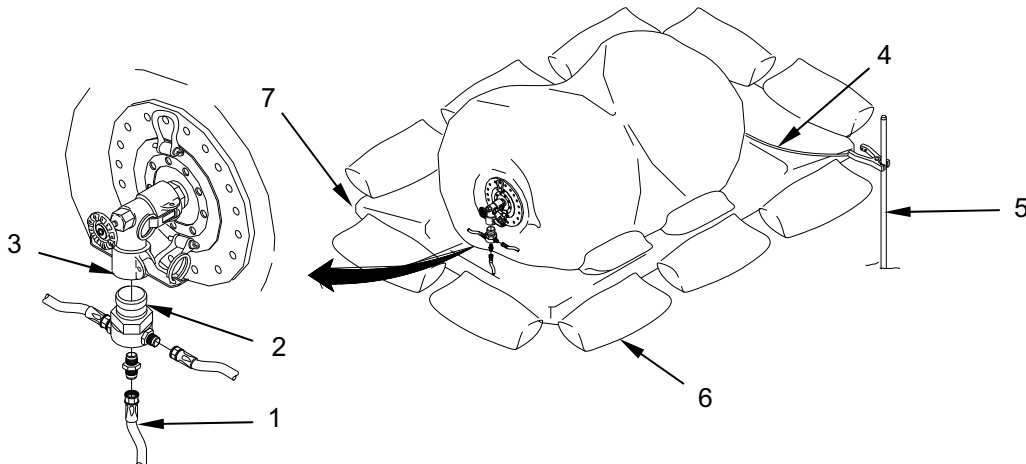
6. Disconnect TQGs from the 500-Gallon collapsible fabric fuel drum as follows:



### WARNING

Some fuel spillage may occur whenever hose couplings are separated. Be prepared to collect residual fuel from hose with a pail and rags. Failure to observe this warning may result in fuel spillage.

- a. Remove each TQG auxiliary fuel hose (1) from the fuel manifold (2).
- b. Remove the fuel manifold (2) from the drum coupler valve (3).
- c. Remove adapter from the fuel manifold (2) and install dust cap. Remove the coupler valve (3) from the fabric fuel drum as described in TM 10-8110-201-14&P.
- d. Remove grounding strap (4) from the drum (3) and remove rod (5) from earth (if possible).
- e. Have bulk fuel personnel remove any leftover fuel from drum (3) for proper disposition in accordance with TM 10-8110-201-14&P.
- f. Prepare the drum (3) for movement in accordance with TM 10-8110-201-14&P.
- g. Remove sand bags (6) and recover berm liner (7). Clean and fold the berm liner (7).



### FIELD PACKING GENERATOR PARALLELING KIT TYPE 21A

This paragraph provides information to pack equipment into TRICON Type 21A. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON, Type 21A. Reusable containers, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

#### Pertinent References:

For a complete inventory of TRICON Type 21A refer to Table 1, WP 0036 00.  
 For information and illustrations of the switch box assembly refer to TM 9-6115-672-24P.  
 For information and illustrations of other MSPG components refer to WP 0098 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.



Prepare the contents of TRICON 21A for packing as described below.

1. Locate sixteen switch box cradle stands and wrap each in cushioning material. Secure with tape.
2. Locate sixteen switch box assemblies, each consisting of the items listed and prepare as described:

**Table 1. Switchbox Assembly Components.**

Item	NSN/PN/(CAGE)	Qty
Switch Box	/13229e5795-3/(97403)	1
Cable Assembly, 60kw, B Unit, W19, 25-ft, Pigtail	6145-01-440-5706	1
Wrench, Box, 1-23/32 In	5120-01-375-4373	1
Wrench, Load Terminal, 2-in	5120-01-368-1646	1

- a. Ensure that wrenches are tethered to the switch box assemblies. Secure in place if needed.
  - b. Wrap switch box coupling in two layers of cushioning material and secure with tape.
  - c. Wrap switch box in barrier material and secure with tape.
  - d. Wrap connector and pigtail ends of the cable assembly into two layers of cushioning material and secure in place with tape.
  - e. Wrap each end in barrier material and secure in place with tape.
3. Locate eight ground rod slide hammers. Wrap each in two layers of cushioning material and secure with tape. Place each item into a bag made of barrier material and secure with tape.
  4. Locate eight fire extinguishers. Wrap each in two layers of cushioning material and secure with tape. Place each fire extinguisher into the original shipping box, if available, or a close fitting fiberboard box.

**Packing Procedures for TRICON Type 21A**

The following packing materials and other items are required to pack TRICON 21A:

**Table 2. TRICON Type 21A Packing Materials.**

Item, NSN	Qty
Pad, energy dissipating, 3-inch thick (honeycomb), sheet, NSN 1670-00-753-3928	2
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Corrugated Fiberboard Stock, ASTM-D4727	As required
Steel Strapping, ½-inch, ASTM-D-3953	2
Plywood, ¾-In 4-foot x 8-foot	2
Lumber, 2 x 6 x 75-3/4-inches	3
Special Purpose Web, Tiedown NSN 3990-01-204-3009	2
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Cable tie, nylon 12 inch, NSN 5975-00-985-6630	As required

1. Locate TRICON with “GENERATOR PARALLELING KIT; CO. TYPE 21A..” stenciled on the left door.
2. Open TRICON doors and remove everything from container. This should include three small reusable containers, bulk equipment, marked “21A BIN #1”, “21A BIN #2” and “21A BIN #3”. Ensure TRICON interior is clean and dry. Inspect the container for any physical damage, and that all doors and latches operate properly.

3. Work each barrel bolt mechanism (two per container) on the door to ensure it is easily opened and closed. Line each of the sides and floor of each reusable container with a minimum of two layers of fiberboard. Cut the fiberboard so that it will bend with the door on the container when the door is opened.
4. Locate sixteen each switch box assemblies. Carefully pack eight, each switch boxes into reusable container marked 21A BIN #1 and 21A BIN #2.
5. Locate the following items previously prepared:

**Table 3. Items to be packed into Container 21A BIN #3.**

Item	NSN/PN/(CAGE)	Qty
Cradle, Stand, Sw3ict Box	/SK-M-SHELF-01-BW/(97403)	16
Slide Hammer, Ground Rod	5120-01-013-1676	8
Fire Extinguisher, 10-Lb, Type 1, Cl 1, Sz10	4120-00-889-2491	8

- a. Carefully pack items into reusable container marked 21A BIN #3.
  - b. Fill voids in the container to secure items and create a tight pack.
  - c. Place two layers of cushioning material over the items inside the reusable container.
  - d. Retrieve, or fabricate a plywood cover as shown in 9-1-0758 (81337). Place the cover on the container with cleats facing up. Strap down with steel banding straps.
6. Place two sheets of ¾-inch thick plywood onto the floor of the TRICON, making sure that the doors will close tight against the front edges.
  7. Locate two each special purpose web tiedown straps. Attach the non-ratchet end of the straps on the rear vertical uprights, left and right, at a height that is approximately 3 to 4 inches lower than two of the three stacked reusable containers. Position the straps so that they are out of the way for the next step but making sure that they do not get caught up on the reusable containers when they are put into the TRICON.
  8. Stack reusable container #2 on top of container #3 and container #1 on top of container #2. Using a forklift, place the three stacked reusable containers inside the TRICON. Cross the previously attached tiedown straps and attach to the front corner tiedown brackets. Make sure that the straps are not caught up on any obstruction and are properly tightened. Fold loose ends of straps and secure with nylon wire zip ties.
  9. Place three each 2-inch x 6-inch x 75¾-inch pieces of lumber in front of the reusable containers as shown.
  10. Install blocking and bracing as required to secure the contents inside the TRICON. Blocking, bracing, fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
  11. Ensure that three each TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.

12. Close and secure TRICON doors.

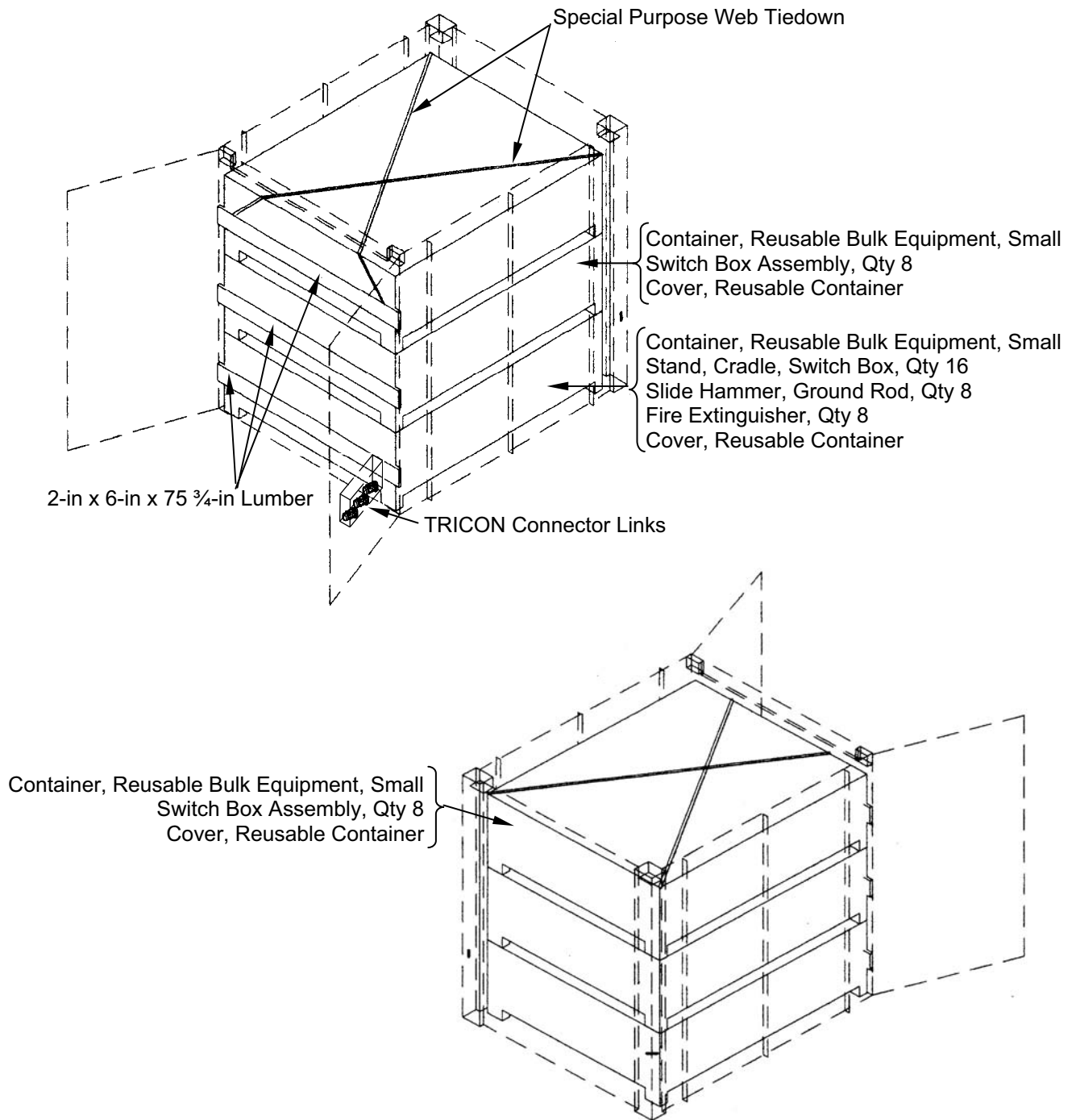


Figure 1. Field Packing Generator Paralleling Kit Type 21A.

**FIELD PACKING SYSTEM SUPPORT KIT TYPE 21B**

This paragraph provides information to pack equipment into TRICON Type 21B. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON, Type 21B. Reusable containers, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 21B refer to Table 3, WP 0036 00.  
 For information and illustrations of the 500-Gallon Collapsible Fuel Drum refer to TM 10-8110-201-14&P.  
 For information and illustrations of the 60kw TQG refer to TM 9-6115-672-24P  
 For information and illustrations of other MSPG components refer to WP 0098 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

Prepare the contents of TRICON 21B for packing as described below.

1. Locate two each non-vented drum filling pressure controls, including the QDISC, Cam-Lock, fuel discharge hose assemblies, 1½-inch x 5-foot, M x F, and prepare as follows:
  - a. Wrap the pressure controls in two wraps of cushioning material and secure with tape.
  - b. Wrap an additional layer of vapor barrier material around each control and secure with tape.
  - c. Place the controls in a close fitting fiberboard container and close with tape.
  - d. Wrap hose coupling fittings in two layers of cushioning material and secure with tape.
  - e. Wrap each coupling in barrier material and secure with tape.
2. Locate and prepare two each yoke, towing, lifting, fabric drum, consisting of the following items:

**Table 4. Lifting/Towing Yoke Components.**

Item	NSN/PN/(CAGE)	Qty
Pin, Straight Headless	5313-01-105-7350	2
Set Screw	5305-00-723-9387	2
Leg Connecting	13216e7992 (97403)	2
Upper Leg	13216e7993 (97403)	2
Brace	13216e7994 (97403)	2
Clevis Pin Assembly	5315-01-258-6496	2
Nut, Self-Locking Hex	5310-00-245-8826	2
Nut, Self-Locking Hex	5310-00-241-6667	2
Screw, Cap, Hex Head	5305-00-727-6804	2
Screw, Cap, Hex Head	5305-00-941-3579	2
Hook, Chain	4030-00-948-7315	2

- a. Place the towing yoke, nuts, screws, pins, and chain hook into separate bags made of barrier material and secure with tape.
  - b. Wrap the connecting legs, upper legs, and braces into cushioning material and secure with tape. Place items into original shipping box, if available, or a close fitting fiberboard container.
3. Locate eight each drum, fabric, collapsible, 500-Gallon fuel, Type III, consisting of the following items and prepare as described:

**Table 5. 500-Gallon Fuel Drum Components.**

Item	NSN/PN/(CAGE)	Qty
Coupler Valve Assembly	4930-00-973-2589	1
Hose Assembly, QDISC, Cam-Lock, 1-1/2 In X 5 Ft, M X F, Discharge, Fuel	4720-00-014-8286	1

- a. Cover fittings with a minimum of two wraps of cushioning material and secure with tape.
  - b. Fold the fabric drums to an approximate size of 72-inches x 30-inches. Fold so that one fitting is located on the interior and the other on the top exterior of the bundle.
  - c. Place a layer of cushioning material in the area between the drum surfaces against the fittings to prevent abrasion during shipment.
  - d. Evacuate excess air by applying pressure to the bladder and venting through the valve.
  - e. Wrap each coupling valve assembly into a minimum of two wraps of cushioning material and secure with tape.
  - f. Place each wrapped coupling valve into a bag made of barrier material and seal with tape.
  - g. Wrap each hose assembly in two wraps of cushioning material and secure with tape.
  - h. Place each wrapped hose assembly into a bag made of barrier material and seal with tape.
4. Locate eight each berm liner assemblies, 500-Gallon tank, consisting of the following items and prepare as described:

**Table 6. Berm Liner Assemblies.**

Item	NSN/PN/(CAGE)	Qty
Berm Liner Assembly, 500 Gallon Tank, FP	5430-01-415-7432	1
Valve Assembly, Ball, 2-inch, Drain Control	/2222191/(0A6k1)	1
Hose Assembly, Q-Disc, Cam-Lock, 2-inch X 20-ft, Drain, Fuel,	Mil-H-370, Ty II, Sz 6, Cl 1 St A/(81349)	1

- a. Fold the berm liner to approximately 24-inches x 30-inches, exposing any identification markings. The bundles can lashed with rope or strapped to maintain package integrity.
- b. Place a minimum of two wraps of cushioning material around each of the 2-inch ball valve assemblies and secure with tape.
- c. Place a layer of cushioning material in the area between the drum surfaces against the fittings to prevent abrasion during shipment.
- d. Place each wrapped ball valve into a bag made of barrier material. Secure with tape.
- e. Wrap each fitting on the hose assembly into cushioning material and secure with tape.
- f. Wrap each fitting on the hose assembly into barrier material and secure with tape.

**NOTE**

Return the emergency repair kits that are unused in their original packaging. Return unused portions of the kit as well as tools as described below.

5. Locate two each emergency repair kits, consisting of the following items and prepare as described:

**Table 7. Emergency Repair Kits.**

Item	NSN/PN/(CAGE)	Qty
Pouch, Repair Kit	5430-01-114-5392	1
Pliers, Diagonal Cut	5120-01-119-4173	1
Hood, Flexible	8110-01-120-7824	1
Rotary Cutter, Wrench	5430-10-114-4597	1
Plug, Wood, 5/8 In	5510-01-115-0893	3
Patch Assembly, Mechanical, 3/4-in	5430-01-114-4598	6
Sheet, Technical, Instructions	7610-01-122-3771	1

- a. Place the pliers, hood, rotary cutters, plugs, patches, and instruction sheet into its respective place in the pouch.
- b. Place each kit/pouch into a bag made of barrier material and secure with tape.
- c. Place each kit into its original shipping box, or a new, close-fitting fiberboard container. Secure with tape.

**NOTE**

Return the emergency repair kits, Type II that are unused in their original packaging. Return unused portions of the kit as well as tools as described below.

6. Locate two each emergency repair kits, Type II consisting of the following items and prepare as described:

**Table 8. Emergency Repair Kits Type II.**

Item	NSN/PN/(CAGE)	Qty
Container, Repair Kit	5430-01-248-1662	1
Patch, Mechanical, Flexible, 3-in	5340-00-720-8864	1
Patch, Mechanical, Flexible, 5-in	5340-00-720-8863	2
Patch, Mechanical, Flexible, 7-1/2-in	5340-00-720-8858	2
Hood, Flexible	8110-01-120-7824	1
Plug, Wood, 1-1/2-in	5510-01-412-0264	2
Plug, Wood, 2-in	5510-01-119-5995	2
Patch Assembly, Mechanical, 2-in	5430-01-245-5983	2
Knife And Sheath Assembly	5430-01-123-3082	1
Repair Kit, Emergency, Type I	8110-00-856-6244	1
Sheet, Technical, Instructions	7610-01-128-1852	1

- a. Place items into their respective place within the repair kit container. Block or cushion items as needed to prevent free movement and possible damage.
  - b. Close the container and secure the latch in a manner that prevents accidental opening.
  - c. Place each kit into its original shipping box, or a new, close-fitting fiberboard container. Secure with tape.
  - d. Place each kit into a bag made of barrier material and secure with tape.
7. Locate eight each flexible fuel can spouts and wrap each in cushioning material. Secure with tape. Place each spout into a bag made of barrier material and secure with tape.

8. Locate eight each, 5-Gallon plastic military fuel cans. Open each can to allow air flow. Ensure that the top is secured to the can.
9. Locate eight boxes of drip pan, absorbent, spill cleanup. These unused materials should be in their original packaging.
10. Locate three each containers of absorbent material, spill cleanup. These unused materials should be in their original packaging.
11. Locate three each shovels, round point, D-handle. Wrap each shovel head into barrier material and secure with tape. Nest the shovels together and secure with tape.
12. Locate one each lubrication order LO 9-6115-645-12, and one each technical manual TM 9-6115-672-24P and place each into a bag made of barrier material. Seal with tape.

**NOTE**

Return system support package components that are unused in their original packaging. Do not return ship used parts. Dispose of these locally.

13. Locate one system support package for MEP 806A, consisting of the following items and prepare as described:

**Table 9. MEP 806A System Support Package Components.**

Item	NSN	Qty
V-Belt Set	3030-00-528-3771	4
Fuse Cartridge	5920-00-539-6920	8
Clamp, Hose, Low Pressure, Type F, SAE #6	4730-00-908-3195	4
Hose, Nonmetallic, 5/16-in, Type I (Ft)	4720-00-542-4668	4
Filter Body, Fluid	2940-01-365-6535	24
Filter Element, Oil	2940-00-007-4791	24
Element, Filter, Air Cleaner	4130-01-378-1130	24
Filter Element, Fuel	2910-01-359-4971	24

- a. Place the cartridge fuse, hose clamp, and V-belt set, each into a bag made of barrier material and seal with tape. Place the items into a close-fitting fiberboard container and seal with tape.
- b. Seal the ends of the <sup>5</sup>/<sub>16</sub>-in non-metallic hose with tape.
- c. Place the oil filters and air filters into separate close-fitting fiberboard containers and seal with tape.

**NOTE**

Return system support package components that are unused in their original packaging. Do not return ship used parts. Dispose of these locally.

14. Locate one system support package for MEP 806B, consisting of the following items and prepare as described:

**Table 10. MEP 806B System Support Package Components.**

Item	NSN	Qty
Light, Panel	6210-00-935-6919	2
Indicator, Light	6210-00-583-9349	2
Relay, Electromagnetic	5945-00-458-3351	2
Gasket, Thermostat Cover	5330-01-470-2034	4

**Table 10. MEP 806B System Support Package Components – Continued.**

Item	NSN	Qty
V-Belt	3030-01-470-3850	4
Parts Kit, Air Filter	2940-01-470-6444	4
Nozzle, Fuel, Injection	2910-01-460-8973	2
Indicator, Temperature, Electrical	6685-01-407-2287	4
Parts Kit, Seal Replacement	5330-01-452-0929	8
Element, Filter, Air Cleaner	4130-01-378-1130	24
Filter Body, Fluid	2940-01-365-6535	24
Filter Element, Oil	4330-01-444-3729	24
Filter Element, Fuel	2910-01-444-3758	24
Synchronizer, Load Sharing	5895-01-470-6709	2
Regulator, Voltage, 50/60 Hz	6110-01-470-4253	2
Pump, Fuel, Electrical	2910-01-366-7293	4
Generator, Alternating Current	6115-01-473-7860	2
Thermostat, Flow Control	6685-01-444-9477	4

- a. Place the light panels, indicator lights, relays, thermostat gasket covers, V-belts, air filter parts kits, fuel injection nozzle, and flow control thermostats, into separate bags made of barrier material and seal with tape. Place the items into their original shipping box, or a close-fitting fiberboard container and seal with tape.
- b. Place the fluid filter bodies, the oil filter element, and the air cleaner filter element into original shipping box, or a new, close-fitting fiberboard container and seal with tape.
- c. Place the load-sharing synchronizer, voltage regulator, electrical fuel pump, and generator into separate bags made of barrier material and seal with tape. . Place the items into their original shipping box, or a close-fitting fiberboard container and seal with tape.

**Packing Procedures for TRICON Type 21B**

The following packing materials and other items are required to pack TRICON 21B:

**Table 11. TRICON Type 21B Packing Materials.**

Item, NSN	Qty
Pad, energy dissipating, 3-inch thick (honeycomb), sheet, NSN 1670-00-753-3928	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Steel Strapping, ½-inch, ASTM-D-3953	2
Plywood, ¾-In 4-foot x 8-foot	2
Lumber, 2 x 6 x 75-3/4-inches	3
Corrugated Fiberboard Stock, ASTM-D4727	As required
Special Purpose Web, Tiedown NSN 3990-01-204-3009	2
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Cable tie, nylon 12 inch, NSN 5975-00-985-6630	As required

Use the following procedures to install the shelf and pack twelve footlockers into TRICON Type 21B:

1. Locate TRICON with “SYSTEM SUPPORT KIT; CO. TYPE 21B..” stenciled on the left door.
2. Open TRICON doors and remove everything from container. This should include three small reusable containers, bulk equipment marked “21B BIN #1”, “21B BIN #2” and “21B BIN #3”. Ensure TRICON interior is clean and dry. Inspect the container for any physical damage, and that all doors and latches operate properly.



3. Work each barrel bolt mechanism (two per container) on the door so that it is easily opened and closed. Line each of the sides and floor of each reusable container with a minimum of two layers of fiberboard. Cut the fiberboard so that it will bend with the door on the container when the door is opened.
4. Locate the following items in the quantities indicated for packing into reusable container 21A BIN #1:

**Table 12. Items to be packed into Reusable Container 21A BIN#1.**

Item	NSN/PN/(CAGE)	Qty
Control, Pressure Filling, Non-vented Drum	4930-00-855-8739	2
Yoke, Towing, Lifting , Fabric Drum	8110-00-856-6243	2
Spout, Fuel Can, Flexible	7240-00-177-6154	8
Can, Fuel, Military, Plastic, 5-Gallon	7240-01-337-5269	8
Drip Pan, Absorbent, Spill Cleanup	7930-01-316-6008	8
Absorbent Material, Spill Cleanup	7930-00-269-1272	3
System Support Package For MEP 806A	9-1-0710/(81337)	1
Shovel, Round Point, D-Handle	5120-00-293-3336	3
Repair Kit, Emergency, Type I	8110-00-856-6246	2
Repair Kit, Emergency, Type II	8110-00856-6244	2
Lubrication Orders, 60kw Generator Set	LO 9-6115-645-12	1
Technical Manual, 60kw Generator Set	TM 9-6115-672-24P	1
System Support Package For MEP 806B	9-1-0711/(81337)	1

- a. Carefully place the prepared items into the reusable containers marked as "21B BIN #1". Install honeycomb, as required to fill spaces and gaps between items. These fillers and all dunnage shall be installed so as to protect the contents during transport.
- b. Place two layers of cushioning material over the items inside the container.
5. Locate eight, 500-Gallon fuel drums, eight fuel drum berm liners, and eight fuel manifold assemblies prepared previously.
6. Carefully pack four each of the items, above into reusable containers marked "21A BIN #2", and "21A BIN #3". Install honeycomb, as required to fill spaces and gaps between items. These fillers and all dunnage shall be installed so as to protect the contents during transport. Place two layers of cushioning material over the items inside the container.
7. Retrieve, or fabricate a plywood covers as shown in 9-1-0758 (81337). Place the covers on the reusable containers with cleats facing up. Strap down with steel banding straps.
8. Place two sheets of 3/4-inch thick plywood onto the floor of the TRICON, making sure that the doors will close tight against the front edges.
9. Locate two each special purpose web tiedown straps. Attach the non-ratchet end of the straps on the rear vertical uprights, left and right, at a height that is approximately 3 to 4 inches lower than two of the three stacked reusable containers. Position the straps so they are out of the way for the next step but ensure sure they do not get caught up on the reusable containers when they are put into the TRICON.
10. Using a forklift, stack reusable container #2 on top of container #3 and container #1 on top of container #2. Place the three stacked reusable containers inside the TRICON. Cross the previously attached tiedown straps and attach to the front corner tiedown brackets. Make sure that the straps are not caught up on any obstruction and are properly tightened. Fold loose ends of straps and secure with nylon wire zip ties.
11. Place three each 2-inch x 6-inch x 753/4-inch pieces of lumber in front of the reusable containers.

12. Install blocking and bracing to secure contents inside the TRICON. Install blocking, bracing, fillers and dunnage, so as to prevent TRICON content and dunnage and from falling out when doors are opened.
13. Ensure that three each TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.
14. Close and secure TRICON door.

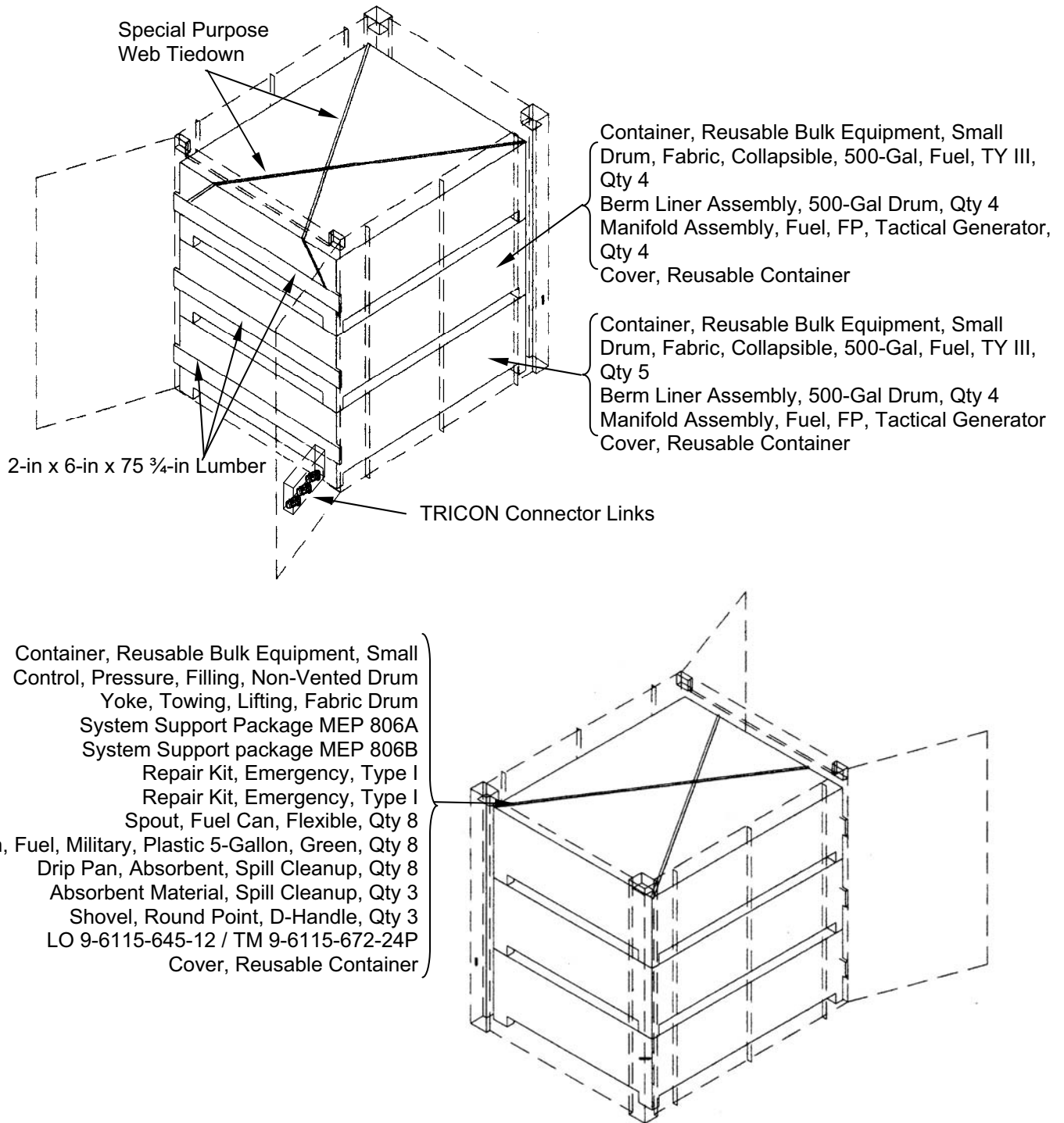


Figure 2. Field Packing Generator Paralleling Kit Type 21B.

END OF WORK PACKAGE

**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - MODIFICATION SYSTEM PRIME POWER**

**GENERAL**

The following instructions for the preparation for movement and field packing of the Modification System Prime Power (MSPP) equipment are limited to Force Provider unique equipment. It does not include prime power company TO&E (MTO&E) Equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed. Refer to WP 0037 00 and WP 0099 00 for equipment illustrations, as necessary.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Replace damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON covered in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL (TM 10-5419-206-23P, WP 0002 00).

**PREPARATION FOR MOVEMENT OF MSPP EQUIPMENT**

The following procedures describe the preparation for movement and packing of the MSPP equipment and components. Disregard retrieval, preparation and packing instructions for components and materials that have been used up or cannot be safely or economically retrieved.

Coordinate the shutdown of the power grid with personnel of the serviced subsystems to ensure power is available as long as needed.



**WARNING**

Do not attempt to disconnect power from any component of the power grid until the power has been turned off at the Centralized Control Van (CCV). Only qualified Prime Power Unit Personnel shall disconnect load pigtails from the transformers. Failure to observe this warning may result in severe injury or death by electrocution.

Disconnect System Components.

After the power has been shut off at the CCV, disconnect the grid in the sequence shown below. Note the connector type indicated.

**Table 1. Grid Disconnection Sequence and Connector Types.**

Sequence No.	Connection	Method	Responsibility
1	CCV Feeder to Conduit	Termination Kit	Prime Power Personnel
2	Feeder (Out) conduit to H-Frame	Termination Kit	Prime Power Personnel
<b>NOTE</b>			
As conduit cables are disconnected from transformer terminals, install protective caps onto transformer terminals. Close compartment doors on transformer.			
3	High voltage conduits to B bank (Feeder/Out) in high voltage cabinet of transformer	Separable Insulated Connector (Elbow Connector)	Prime Power Personnel

**Table 1. Grid Disconnection Sequence and Connector Types – Continued.**

Sequence No.	Connection	Method	Responsibility
4	High voltage conduits to A bank (Feeder/In) in high voltage cabinet of transformer	Separable Insulated Connector (Elbow Connector)	Prime Power Personnel
<p><b>NOTE</b></p> <p>Install dust caps onto 60-A/100-foot, and 100-A/50-foot cables as the cables are being disconnected.</p>			
5	100-A/50-foot Load cables and (pigtailed) to X bank in low voltage cabinet of transformer	Universal Connector Kit Class L	Prime Power Personnel
6	60-A/100-foot Load cables to PDISE	Class L Connector	Force Provider Company

**Staging of Equipment**

1. After components are disconnected, assemble the equipment to be prepared for shipment in a central location suitable for inspecting and cleaning the components as necessary.
2. Transformers should be on the 4-foot x 4-foot wood skids on which they were shipped. If a skid is damaged or missing, a new one must be prepared in accordance with Drawing 9-1-0754 (81337) as shown in WP 0003 00.
3. Cables and conduits that have been retrieved must be cleaned, dried and free of soil and debris.

**FIELD PACKING MSPP TRANSFORMER KIT (PART A) TRICON 31A**

This paragraph provides information to pack the MSPP transformer kit TRICON type 31A. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into the TRICON, and maintain uniformity of similar TRICON. The following procedures are for field packing one of nine identical TRICON 31A. Depot skids, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON type 31A refer to Table 1, WP 0037 00.  
 For information and illustrations of the transformer refer to WP 0037 00.  
 For illustrations of other components see WP 0037 00 and WP 0099 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

To pack the equipment, proceed as follows:

The following materials and equipment is required to pack TRICON 31A:

**Table 2. TRICON Type 31A Packing Materials.**

Item	Qty
Special Purpose Web, Tiedown NSN 3990-01-204-3009	4
Pad, energy dissipating, 3-in thick (honeycomb), NSN 1670-00-753-3928)	As required
Cable tie, nylon 12 inch, NSN 5975-00-985-6630	As required

1. Locate TRICON with "MSPP TRANSFORMER KIT TYPE 31A..." stenciled on the left hand door (these containers should be staged in proximity of each transformer).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Locate four special purpose tiedowns and secure the strap end of two tiedown straps to the last tiedown loop along the floor, one on the left, and one on the right side of the container. Secure the strap end of one tiedown strap into the right rear corner, approximately 4-feet from the floor. Secure one end of one strap to the lower rear corner tiedown, approximately 2-feet from the floor. Place the ends of the straps out of the way, so they do not interfere with the loading of the transformer.

### **CAUTION**

Do not use radiator as a lifting point. Lift from the tank rear, with shipping skid in place. Failure to comply will result in serious equipment damage.

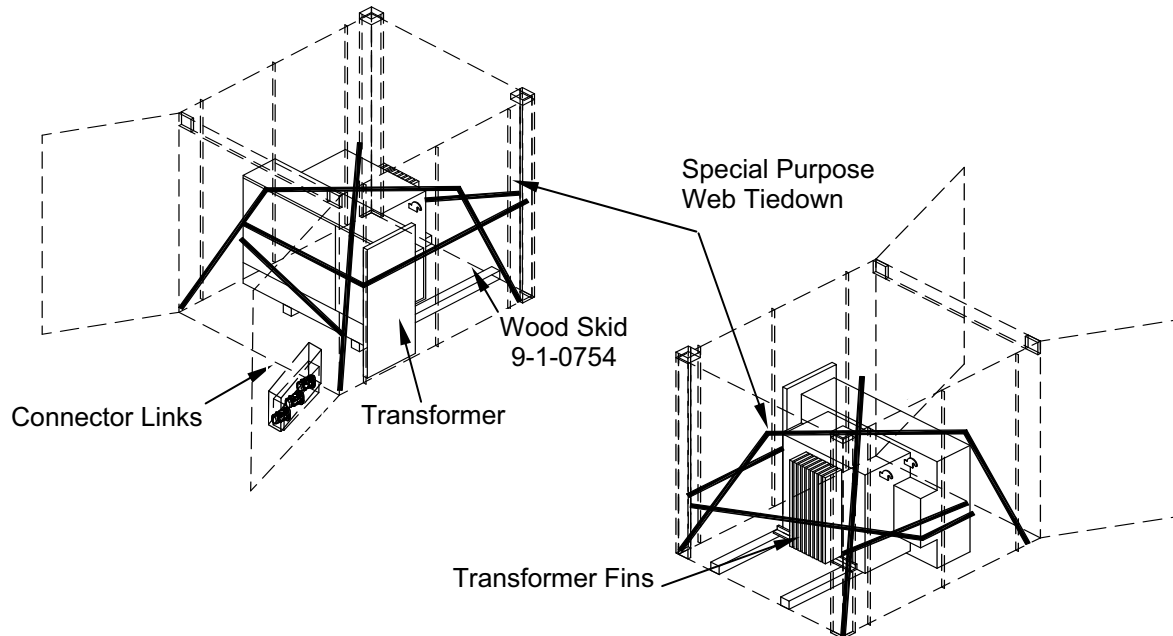
4. Using a 10,000-pound forklift, lift the transformer with the wood skid specified on Drawing 9-1-0754 (81337) in place, from the rear of the tank. Place the transformer all the way to the back of the TRICON. The rear ends of the transformer skid shall contact the rear of the TRICON. Place a 36-inch x 60-inch sheet of 3-inch thick honeycomb between the transformer and the right side of the TRICON, sliding the transformer all the way to the right.

### **CAUTION**

Ensure straps do not come in contact with fins on the rear of the transformer.

5. Crisscross the two straps secured to the last tiedown loops along the floor, over the transformer, securing to the opposite front most tiedown loops along the floor. Neatly fold the remaining portion of the straps and secure with cable zip ties.
6. Secure the strap from the right rear corner around the transformer to the right front corner tiedown, approximately 4-foot from the floor. Strap should secure the transformer to the right side of the container. Fold the remaining portion of the straps and secure with cable zip ties.
7. Secure the strap from the two rear corners around the transformer, approximately 2-feet from the floor. Straps should secure the transformer to the rear of the TRICON. Neatly fold the remaining portion of the straps and secure with cable zip ties.
8. Ensure that three TRICON connector links are located in the holder on the inside of the right door.

9. Close and secure TRICON doors.



**Figure 1. Field Packing MSPP Transformer Kit (Part A) Type 31A.**

#### **FIELD PACKING MSPP TRANSFORMER KIT (PART B) TRICON 31C**

This paragraph provides information to pack MSPP transformer kit TRICON type 31C. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON 31C. Depot skids, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

#### **Pertinent References:**

For a complete inventory of TRICON type 31C refer to Table 2, WP 0037 00.

For information and illustrations of the transformer refer to WP 0037 00.

For illustrations of other components see WP 0037 00 and WP 0099 00.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

To prepare the equipment for packing, proceed as follows:

1. Locate eight terminal kits, 5kv, 2/0, three terminations (7621-s-2). Place each termination kit inside their original barrier material bag and seal with tape. Place the three terminals in original fiberboard box and seal box with tape. If original packaging is not available, wrap kits in barrier material and close package with tape. Place three kits in a new fiberboard box with exterior dimensions not to exceed 11- inches long x 7.8 - inches wide x 5.2 - inches high.
2. Locate 15 splice kits, 5kv, 2/0, three splices (5551). Place each termination kit inside their original barrier material bag and seal with tape. Place the three terminals in original fiberboard box and seal box with tape. If original packaging is not available, wrap kits in barrier material and close package with tape. Place three kits in a new fiberboard box with exterior dimensions not to exceed 25.7 - inches long x 7.7 - inches wide x 8.3 - inches high.
3. Locate twelve ground rods sectional, Type III, Class B, with attachments, consisting of three rod sections, one driving stud, one clamp, 1/0-8, one cable, stranded, copper, bare, 6 AWG x 72-inches, and one ground terminal. Place each ground rod with its components in the original fiberboard box

and seal box with tape. If original box is not available, place the rods in a new fiberboard box with exterior dimensions not to exceed 39.5 - inches long x 2.75 - inches wide x 2 - inches high.

4. Locate one crimper, hand, and wrap it in a minimum of two wraps of cushioning material. Secure the pack with tape. Place item into original barrier material bag and seal with tape. Place bag into a close fitting fiberboard container.
5. Locate the following items:

**Table 3. Items to be Packed into Box #1.**

Item	PN or NSN	Quantity
Terminal Lug, 2 Connector	Au-250 (74829)	75
Tape, Vinyl Plastic, Red	5970-01-013-9369	6
Tape, Vinyl Plastic, White	5970-01-013-9367	6
Tape, Electrical, Super 88	5970-01-388-1999	33
Tap Bolt, Hex Head, 3/8-In X 2-1/2-In	Htb25 (2k066)	75
Washer, Split, 3/8-In	Lw174 (2k066)	100
Nut, Hex, 3/8-In	N165 (2k066)	100

6. Place the items, as received in commercial pack, or bagged (wrapped), into original fiberboard container, if available. A replacement container approximately 15 - inches long x 12 - inches wide x 11 - inches high may also be used. Mark as Box #1.
7. Locate the following items:

**Table 4. Items to be Packed into Box #2.**

Item	PN or NSN	Quantity
Washer, Fender, 3/8-In	SW75 (2k066)	100
Socket, Large, Penta Head	8020k461p21	2
Connector, Barrel, 2/0, Compression	10006 (1qdv5)	50

8. Place the items, as received in commercial pack, or bagged (wrapped), into original fiberboard container, or replacement container approximately 13 - inches long x 10 - inches wide x 5 - inches high. Mark as Box #2.
9. Locate the following items:

**Table 5. Items to be Packed into Box #3.**

Item	PN or NSN	Quantity
Bond Stud	BS1-10 (30105)	20
Tape "Caution High Voltage"	U-CHY (79123)	6

10. Place the items, as received in commercial pack, or bagged (wrapped), into original fiberboard container, or replacement container approximately 15 - inches long x 15 - inches wide x 15 - inches high. Mark as Box #3.
11. Locate thirty-three rolls of tape, electrical, 3/4-in, 130C and place them into original fiberboard container, or replacement container approximately 7 - inch long x 16 - inches wide x 11 - inches high. Seal container with tape. Place the fiberboard container into a bag made of barrier material and sealed with tape. Mark as Box #4.

## Packing Procedures for TRICON Type 31C

The following materials and equipment is required to pack TRICON 31C:

**Table 6. TRICON Type 31C Packing Material.**

Item	Qty
Special Purpose Web, Tiedown NSN 3990-01-204-3009	4
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Pad, energy dissipating, 3-in thick (honeycomb), NSN 1670-00-753-3928)	As required
Cable tie, nylon 12 inch, NSN 5975-00-985-6630	As required

1. Locate TRICON with "MSPP TRANSFORMER KIT (PART B) TYPE 31C..." stenciled on the left hand door (this container should be placed in the MSPP staging area).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Locate four special purpose tiedowns. Secure the strap end of two tiedown straps to the last tiedown loop along the floor, one on the left, and one on the right side of the container. Secure the strap end of one tiedown strap into the right rear corner, approximately 4-foot from the floor. Secure one end of one strap to the lower rear corner tiedown, approximately 2-foot from the floor. Locate the ends of the tiedown straps out of the way, so they do not interfere with the loading of the transformer.

### **CAUTION**

Do not use radiator as a lifting point. Lift from the tank rear, with shipping skid in place. Failure to comply will result in serious equipment damage.

4. Using a 10,000-pound forklift, lift the transformer with the wood skid as specified on Drawing 9-1-0754 (81337) in place, from the rear of the tank. Place the transformer all the way to the back of the TRICON. The rear ends of the transformer skid shall contact the rear of the TRICON. Place a 36-inch x 60-inch sheet of 3-inch thick honeycomb between the transformer and the right side of the TRICON, sliding the transformer all the way to the right.

### **CAUTION**

To prevent damage, ensure straps do not come in contact with fins on the rear of the transformer.

5. Secure the strap from the two rear corners around the transformer, approximately 2-feet from the floor. Straps should secure the transformer to the rear of the TRICON. Neatly fold the remaining portion of the straps and secure with zip ties.
6. Locate one crimper, hand, and sixteen splice kits, inline, 5kv, 2/0. Place a 24-inch x 72-inch sheet of 3-inch thick honeycomb against the back wall of the TRICON. Pack crimper, hand and slice kits as shown below. Place a 20-inch x 55-inch sheet of 3-inch thick honeycomb on top of above items. Locate one special purpose web, tiedown. Secure it to the tiedown loop on each side of the TRICON, and tighten. Neatly fold the remaining portion of the straps and secure with zip ties.
7. Place a 36-inch x 72-inch sheet of 3-inch thick honeycomb upright against the front face of the transformer. Place Box #1 on the floor, at front left hand corner, against the honeycomb sheet.
8. Locate boxes containing termination kits, 5kv, 2/0, three terminations, p/n: 7621-S-2 (1qdv5) previously packed. Place boxes in two stacks on top of Box #1 in the front left hand corner.



9. Place Box #2, on top of the termination kits.
10. Place Box #3, on the floor to the right of Box #1.
11. Place Box #4 on top of Box #3.
12. Locate six each sign, floor stand, "Danger High Voltage/Restricted Area". Place the signs on the floor, at front, right hand corner in two stacks.
13. Locate twelve each rod, ground, sectional previously packed into fiberboard boxes. Place the boxes on top of the floor stands in three stacks.
14. Locate six each traffic cones. Place cones, stacked one top of each other, centered on top of the ground rods in front of the transformer.
15. Place 3-inch thick honeycomb in front of boxes #1, #2 and #3, termination kits, floor stands, traffic cones and ground rods to secure in place during transportation.
16. Crisscross the two straps secured to the last tiedown loops over the transformer, boxes #1, #2 and #3, termination kits, traffic cones, ground rods and floor stands, securing to the opposite front most tiedowns. Ensure straps do not come in contact with fins on the rear of the transformer. Fold the remaining portion of the straps and secure with zip ties.
17. Secure strap from the right rear corner around the transformer, boxes #1, #2 and #3, termination kits, traffic cones, ground rods and floor stands, to the right front corner tiedown, approximately 4-feet from the floor. Strap should secure the transformer to the right side of the TRICON. Fold the remaining portion of the straps and secure with zip ties.
18. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
19. Ensure that three TRICON connectors are located in the holder on the lower inside of the right hand door.

20. Close and secure TRICON doors.

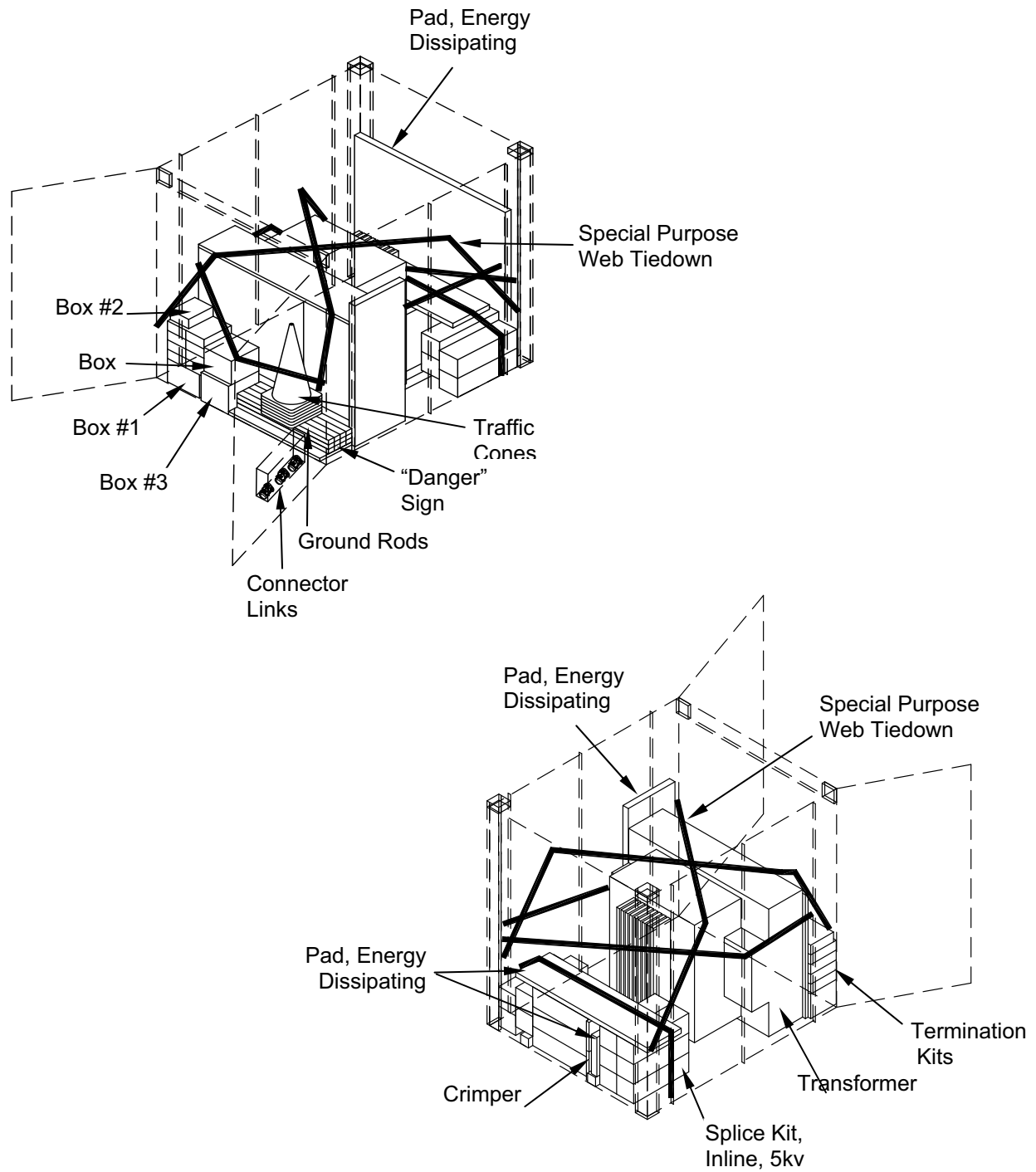


Figure 2. Field Packing MSPSP Transformer Kit (Part B) Type 31C.

**FIELD PACKING MSPP CABLE KIT (PART A) TRICON 32A**

This paragraph provides information to pack MSPP transformer kit TRICON type 32A. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the designated TRICON. Depot pallets, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment for storage or shipment.

**Pertinent References:**

For a complete inventory of TRICON type 32A refer to Table 3, WP 0037 00.  
 For illustrations of other components see WP 0037 00 and WP 0099 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

To prepare the equipment for packing, proceed as follows:

1. The cable spool must be placed on the wood skid on which it was shipped. If the skid is damaged or missing, a new one must be prepared in accordance with Drawing 9-1-0751 (81337) as shown in WP 0003 00.
2. Cables and conduits that have been retrieved must be cleaned, dried and free of soil and debris. They must be wound tightly onto the spool and secured.

**Packing procedures for TRICON type 32A**

The following materials and equipment is required to pack TRICON 32A:

**Table 7. TRICON Type 32A Packing Materials.**

Item	Qty
Special Purpose Web, Tiedown NSN 3990-01-204-3009	4
Cable tie, nylon 12 inch, NSN 5975-00-985-6630	As required

1. Locate TRICON with "MSPP CABLE KIT (PART A) TYPE 32A..." stenciled on the left hand door (this container should be placed in the MSPP staging area).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Locate and place one pallet into the TRICON.
4. Locate three special purpose tiedowns. Secure the strap end of two tiedown straps to the last tiedown loops along the floor, one on the left and one on the right side of the container. Secure the ends of one tiedown strap to the rear corner tiedown loop approximately 2½-feet off the floor, one end on the left, and the other end on the right of the TRICON. Place the ends of the straps out of the way, so they do not interfere with the loading of the cable spools into the TRICON.
5. Locate one 5,000 linear foot spool of cable, conductor, 2/0 shielded. Place the spool flat centered on the pallet located inside the TRICON.
6. Crisscross the two straps secured to the last rear floor tiedowns loops over the cable spool, securing to the opposite front most floor tiedowns. Neatly fold the remaining portion of the straps and secure with cable zip ties.
7. Secure the strap attached to the rear corner tiedown loop, approximately 2½-feet off floor, around spool.

8. Locate one special purpose tiedown. Secure strap to the front corner tiedown loops, around the spool, approximately 2½-feet off the floor, one end on the left, and the other end on the right side of the TRICON. Neatly fold the remaining portion of the straps and secure with cable zip ties.
9. Ensure that three TRICON connectors are located in the holder on the lower inside of the right hand door.
10. Close and secure TRICON doors.

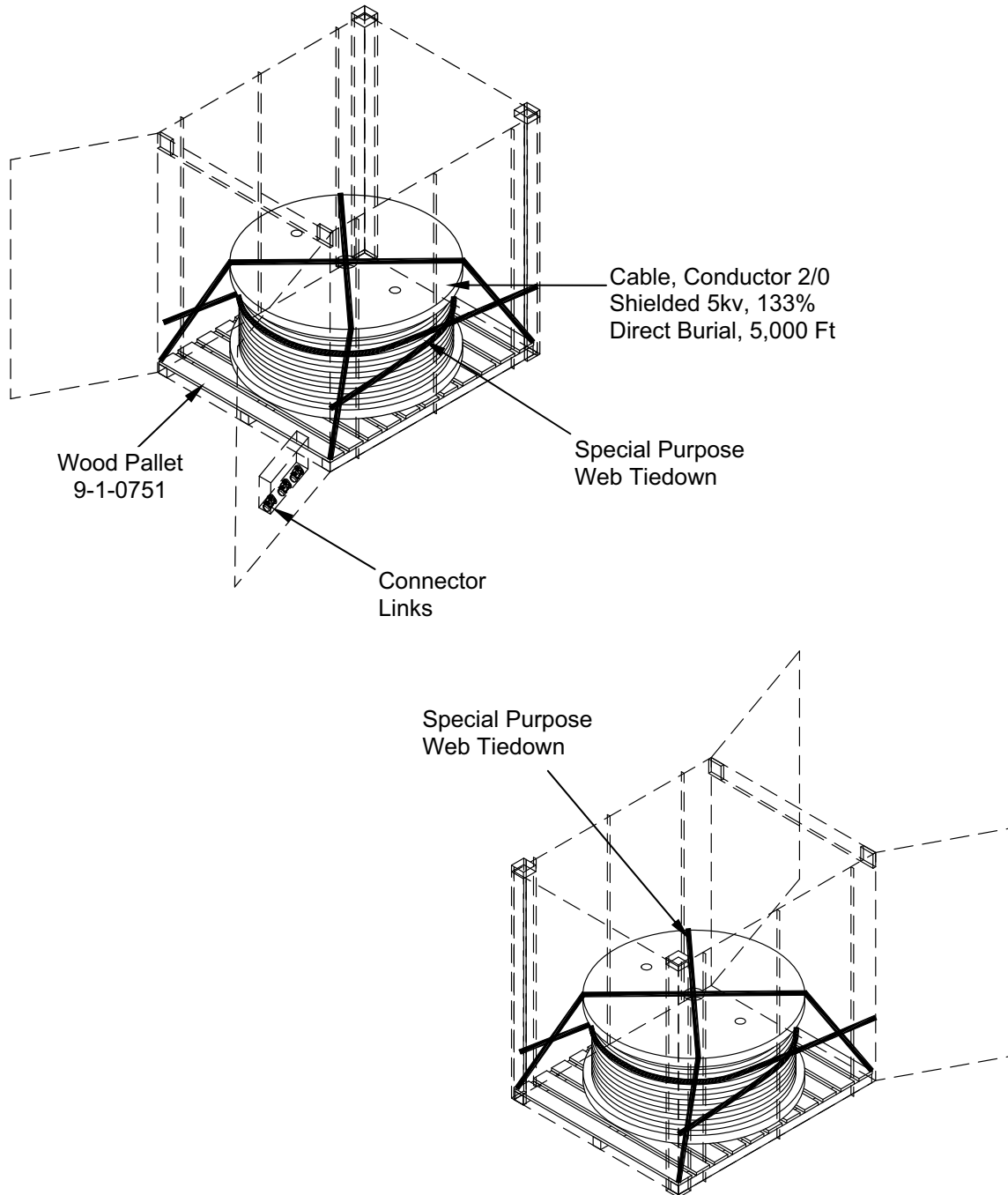


Figure 3. Field Packing Power Generation Cable Kit (Part A) Type 32A.

**FIELD PACKING MSPP CABLE KIT (PART B) TRICON 32B**

This paragraph provides information to pack MSPP transformer kit TRICON type 32B. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. Depot pallets, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment for storage or shipment.

**Pertinent References:**

For a complete inventory of TRICON type 32B refer to Table 4, WP 0037 00.  
 For illustrations of other components see WP 0037 00 and WP 0099 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

To prepare the equipment for packing, proceed as follows:

1. The cable spool must be placed on the wood skid on which it was shipped. If the skid is damaged or missing, a new one must be prepared in accordance with Drawing 9-1-0751 (81337) as shown in WP 0003 00.
2. Cables and conduits that have been retrieved must be cleaned, dried and free of soil and debris. They must be wound tightly onto the spool and secured.

**Packing Procedures for TRICON Type 32B**

The following materials and equipment is required to pack TRICON 32B:

**Table 8. TRICON Type 32B Packing Materials.**

Item	Qty
Special Purpose Web, Tiedown NSN 3990-01-204-3009	4
Cable tie, nylon 12 inch, NSN 5975-00-985-6630	As required

1. Locate TRICON with "MSPP CABLE KIT (PART B) TYPE 32B..." stenciled on the left hand door (this container should be placed in the MSPP staging area).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Locate and place one pallet into the TRICON.
4. Locate four special purpose tiedowns. Secure the strap end of two tiedown straps to the last tiedown loop along the floor, one on the left and one on the right side of the TRICON. Secure the ends of one tiedown strap to the rear corner tiedown loop approximately 2½-feet off the floor, one end on the left, and the other end on the right side of the TRICON. Secure the ends of one tiedown strap to the rear corner tiedown loop approximately 5-feet off the floor, one end on the left, and the other end on the right side of the TRICON. Place ends of the straps out of the way, so they do not interfere with loading the cable spools into the TRICON.
5. Locate two each 4,000 liner foot spools of cable, conductor, 2/0, shielded. Place first cable spool flat, centered on the pallet. Place the second cable spool flat on top of first spool.
6. Crisscross the two straps secured to the last rear floor tiedown loops over the spools, securing to the opposite front most floor tiedowns. Neatly fold the remaining portion of the straps and secure with cable zip ties.
7. Secure strap attached to the rear corner tiedown loop, approximately 2½-feet off the floor, around the bottom spool. Secure strap attached to the rear corner tiedown loop, approximately 5-feet off the floor, around the top spool. Neatly fold the remaining portion of the straps and secure with cable zip ties.

8. Locate two special purpose tiedown. Secure one tiedown strap to the front corner tiedown loops, around bottom spool, approximately 2½-feet off the floor, one end on the left, and the other end on the right side of the TRICON. Secure one tiedown strap to the front corner tiedown loops, around top spool, approximately five - feet off floor, one end on the left, and the other end on the right side of the TRICON.
9. Ensure that three TRICON connectors are located in the holder on the lower inside of the right hand door.
10. Close and secure TRICON doors.

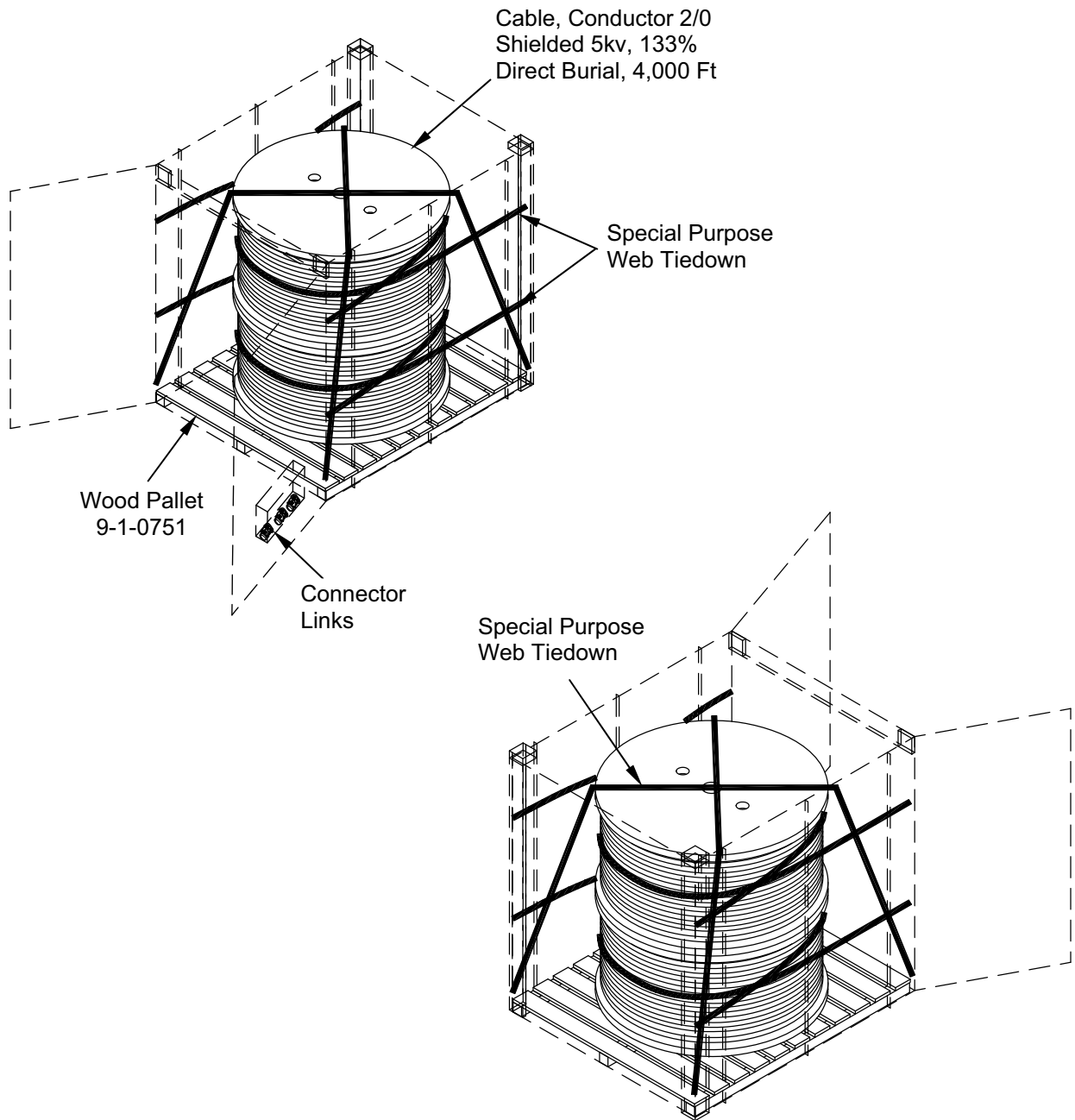


Figure 4. Field Packing Power Generation Cable Kit (Part B) Type 32B.

END OF WORK PACKAGE

**FORCE PROVIDER  
PREPARATION FOR MOVEMENT - MODIFICATION SYSTEM COLD WEATHER**

**GENERAL**

Following are instructions for the preparation for movement and field packing of the Modification System Cold Weather (MSCW) equipment. Use applicable portions of this WP as determined by the equipment to be prepared and packed. Refer to WP 0038 00 and WP 0100 00 for equipment illustrations, as necessary.

Conduct PMCS on the equipment prior to preparation for movement and document shortcomings on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Place one copy of form with equipment.

Replace damaged or missing packing materials identified at the beginning of the packing instructions for each TRICON covered in this WP. To re-order packing materials refer to the Transportation and Storage Container Subsystem RPSTL (TM 10-5419-206-23P, WP 0002 00).

**PREPARATION FOR MOVEMENT OF MSCW EQUIPMENT**

MSCW equipment, when deployed, is used in conjunction with other subsystems and must be prepared for packing and shipment by personnel of the subsystem that used the equipment. The instructions in this WP are organized by type container. The primary responsibility for packing is indicated in the table below. A central location where MSCW equipment is collected prior to packing into TRICONS should be designated. Not all MSCW Equipment may have been in use or installed. Use only applicable portions of this WP as determined by the equipment to be prepared and packed.

The MSCW is packed into the TRICON indicated below. Unless otherwise directed by unit SOP, these should be return-packed by personnel of the primary subsystem shown.

**Table 1. MSCW TRICON.**

<b>TRICON</b>	<b>Title/Contents</b>	<b>Qty</b>	<b>Container Type</b>	<b>Primary Subsystem</b>
MSCW 41A	Billeting Heater Kit	17	Standard TRICON	All Subsystems except: Bulk Fuel Storage and Distribution Power Generation.
MSCW 42A	Tent Kit	1	Standard TRICON	Food Service
MSCW 42B	Tent Kit	1	Standard TRICON	Graywater Collection
MSCW 42C	Tent Kit	1	Standard TRICON	Potable Water Distribution
MSCW 43A	Water Bladder Tent Kit	3	Modified TRICON	One Container each: Food Service Shower Laundry
MSCW 44A	Site Preparation Kit	1	Standard TRICON	Administration
MSCW 45A	Tent Accessory Kit	1	Modified TRICON	Shower

**PREPARATION FOR PACKING AND MOVEMENT OF MISCELLANEOUS EQUIPMENT**

1. Prepare heat traced hoses used with water distribution and wastewater collection by draining hoses and letting them dry. Wrap electrical plugs in barrier paper and close wrap with tape. Coil hoses and secure with tape or twine.
2. Locate commercial site preparation equipment such as rotary hammer drills, torch assemblies, and the reciprocating in-line saw. Clean this equipment and place it into the original fiberboard containers.
3. Locate snow rakes and shovels as well as unused marking materials such as (unused) surveying tape. Set this material aside for packing into MSCW TRICON 44A.

**PREPARATION FOR MOVEMENT OF TEMPER EQUIPMENT**

Prior to striking the TEMPER, ensure all equipment has been removed.

**NOTE**

Do NOT pool or mix TEMPER components. Keep all components in the area where TEMPER was erected.

Strike TEMPER in accordance with TM 10-8340-224-13.

TEMPER Components must be cleaned of dirt, debris and corrosion, then dried thoroughly, before packing. Prepare TEMPER Equipment for packing as follows:

1. Exterior Fabric Components and Vinyl Liners. Sweep loose dirt from both sides of each fabric section and clean with a scrub brush and warm soapy water. Rinse with clean water and allow fabric to completely air dry.
2. Cloth Liners. Do not launder liners. Sweep loose dirt from both sides of each liner. Allow liners to completely air dry.
3. Frame Components. Clean with steam cleaner or pressurized washer, and scrub brush. Allow frame sections to completely air dry.
4. Electrical Cable Assemblies. Clean with rag and scrub brush soaked in a warm detergent solution. Wipe surfaces with a clean, damp rag and allow cables to completely air dry.
5. TEMPER Power Control. Clean the external surfaces with a clean, damp rag. Ensure all dust caps are installed and secure.

**PREPARATION FOR MOVEMENT OF ASH HEATERS**

Prepare ASH Heaters for packing and shipment as follows:

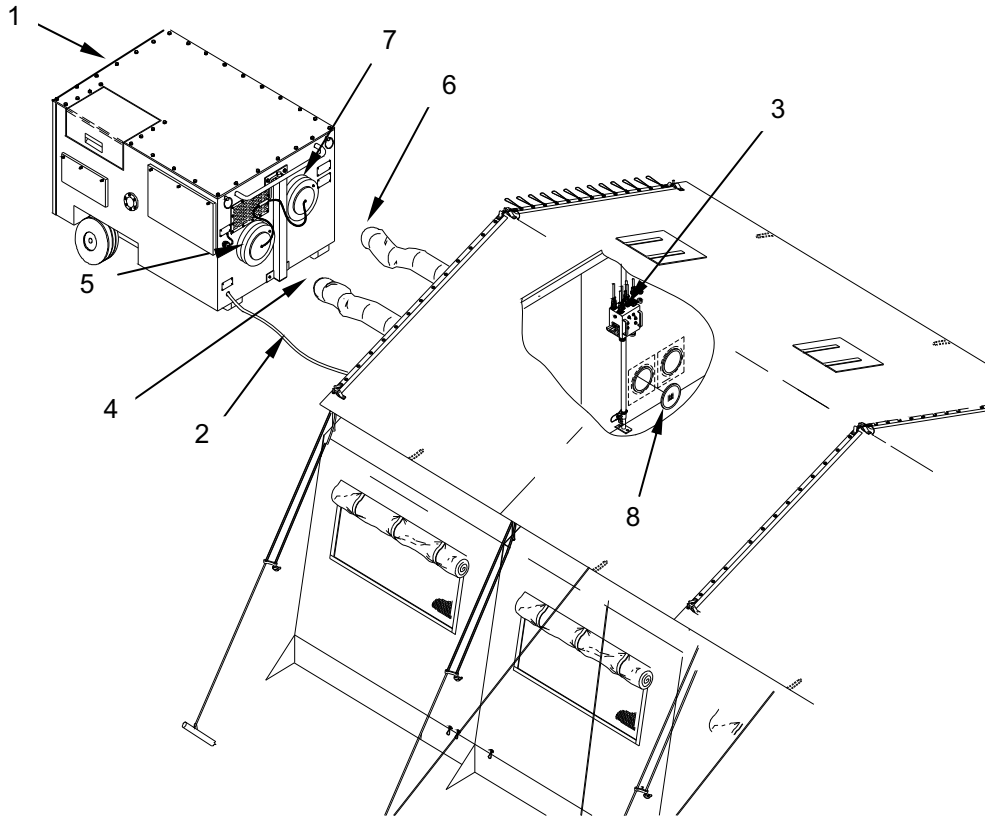
1. Shut down ASH heater (1) in accordance with TM 9-4520-258-14.

**WARNING**

Some parts of the ASH may remain hot for a time after shut-down. Let the heater cool down before performing the following procedures. Failure to observe this warning may result in burn injury to personnel.



2. Disconnect ASH heater power cable (2) from POWER OUT receptacle on the TEMPER power control box (3). Install dust caps on cable and receptacle.
3. Disconnect return duct (4) from ASH heater return air duct (5).
4. Disconnect supply duct (6) from ASH heater supply air duct (7).
5. Coil power cable (2) around ASH supply (7) and return air ducts (5).
6. Remove debris screen (9) from TEMPER return duct.
7. Prepare ASH heater for storage in accordance with TM 9-4520-258-14.



### PREPARATION FOR MOVEMENT OF HOT WATER EQUIPMENT

Use the following procedures for the shut down and preparation for movement of the shower, laundry, and food service hot water equipment in the MSCW configuration. Potable water distribution personnel will close the main supply valve to the subsystems and disconnect the 1½-inch heat traced supply hose from the Tee. When supply has been shut off, proceed as follows:

1. Shut down M-80 water heater (1) in accordance with TM 10-4520-259-13&P.
2. Disconnect the fuel supply and return hoses (2) from the M-80 water heater (1).
3. The 55-gallon fuel drum (3), fuel adapter (4), and fuel supply and return hoses (2) will be collected by fuel storage and distribution subsystem personnel.
4. Disconnect M-80 water heater (1) power cord (5) from power source.

5. Disconnect cold water input hose (6) from the M-80 water heater (1). Drain hose and coil neatly. Avoid allowing hose ends to contact contaminated surfaces.



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**WARNING**

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Hot water may remain in M-80 water heater and hoses after shutdown. Allow water to cool before attempting to disassemble system. Failure to observe this warning may result in burn injury to personnel.

6. Disconnect hot water supply hose (7) from M-80 water heater (1). Use caution, hose may still contain hot water. Drain hose and coil neatly. Avoid allowing hose ends to contact contaminated surfaces.
7. Remove rain cap (8), angle flange (9) and modified exhaust stack (10) from M-80 water heater (1). Nest exhaust stack together. Keep these items together and set aside for packing.
8. Install modified TRICON (11) exhaust gasket and cover (12).
9. Using a forklift, remove modified TRICON (11) with M-80 water heater (1) away from the TEMPER modified end wall (13).



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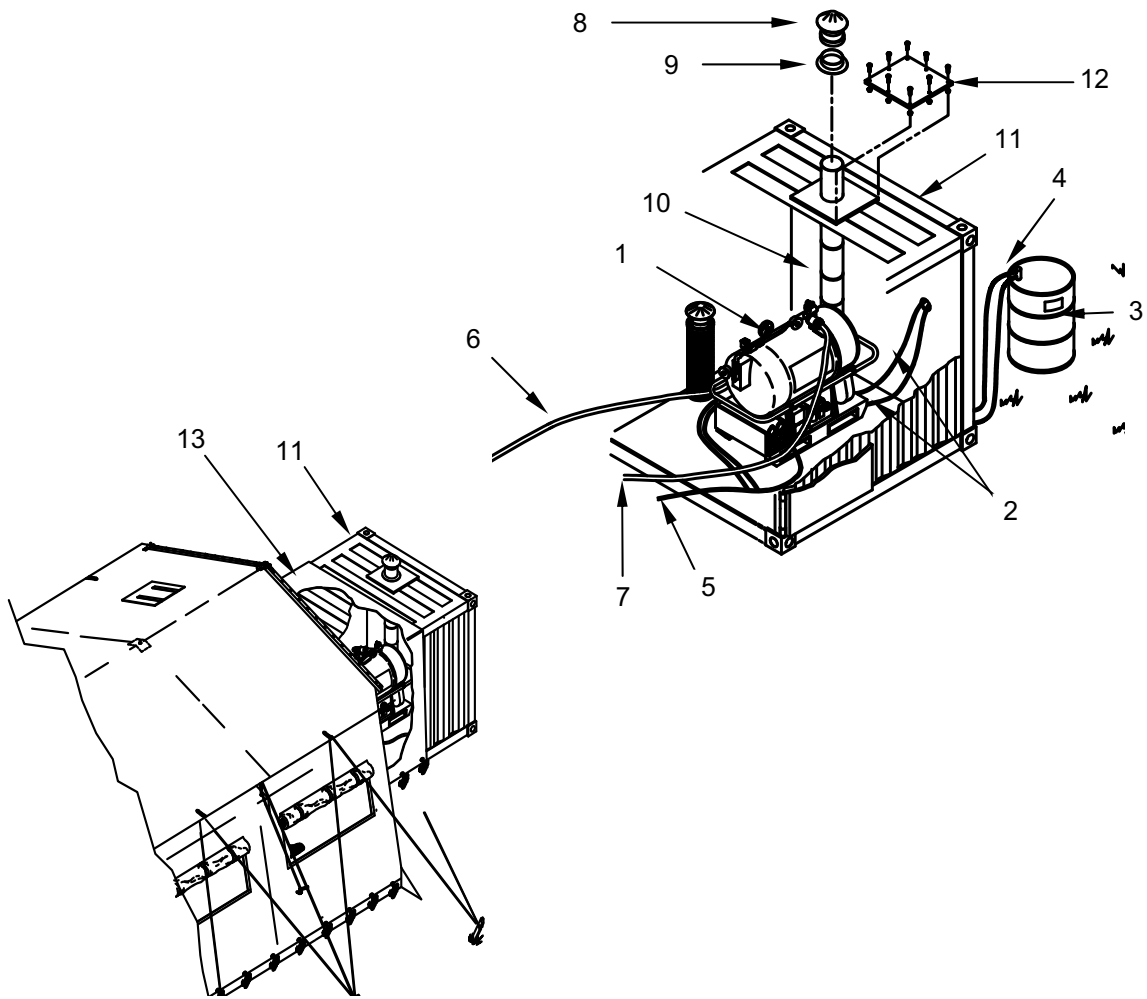
**WARNING**

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To prevent injuries, six persons are required to lift the M-80 water heater.

10. Remove M-80 water heater (1) from modified TRICON (11).
11. Drain water from M-80 water heater (1) in accordance with TM 10-4520-259-13&P.
12. Prepare M-80 water heater for storage or shipment in accordance with TM 10-4520-259-13&P.

13. Remove all other items from TRICON (11) and sweep it clean of residual water.



**FIELD PACKING BILLETING HEATER KIT TYPE**

This paragraph provides information to pack equipment into TRICON Type 41A. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into designated containers, and maintain uniformity of similar TRICON. The following procedures are for field packing one of seventeen identical TRICON, Type 41A. Depot shelves, shoring beams, packaging, blocking, spacers, bracing, tiedowns, dunnage and the pallet retained during unpacking will be needed to repack equipment.

**Pertinent References:**

- For a complete inventory of TRICON Type 41A refer to Table 1, WP 0038 00.
  - For information and illustrations of ASH components refer to TM 9-4520-258-24P.
  - For information and illustrations of other MSCW components refer to WP 0100 00.
  - For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.
  - For information and specification of the ASH Pallet refer to WP 0003 00.
- Equipment must be clean, dry, and debris-free before packing.

Prepare equipment to be packed into TRICON Type 41A as follows:

1. Locate four heaters, 120k BTUH, ASH shut down and prepared for shipment in accordance with TM 9-4520-258-14. Ensure the following subcomponents are Included with the heater:

**Table 2. ASH Components.**

Item	Quantity
Exhaust Pipe And Guard Assembly	1
Remote Thermostat Assembly	1
External Fuel Hose, 25 Foot	1
Exhaust Elbow	1
Cable Adapter	1
TM 9-4520-258-14	1
Duct, Return/Supply Air, 12-In X 180-In	8

2. If the items listed above have not been packed inside the ASH as part of the preparation for shipment, store them as follows:
  - a. Place the remote thermostat assembly, external fuel hose, power cable adaptor, and technical manual inside bin in the large compartment of the heater.
  - b. Secure exhaust elbow with wing nuts to bracket inside large compartment of the heater.
  - c. Place the exhaust pipe and guard assembly in storage compartment above fuel fill.
  - d. Place each duct, return/supply air inside original manufacturer's box, or a close fitting fiberboard container with outside dimensions of 14 inches x 14½-inches x 29½-inches long. Close container with tape.
3. Locate four debris screens and place each in a bag made of barrier material. Close bag with tape.
4. Locate four adapters, drum-ill, 2-port and wrap each adapter in cushioning material. Secure in place with tape. Place wrapped adapter, inside manufacturer's original box, if available, or a close fitting fiberboard container.
5. Locate technical manual TM 9-4520-258-14 and place into bag made of barrier material. Seal with tape.

**Packing Procedures for TRICON Type 41A**

The following materials and items are required to pack TRICON 41A:

**Table 3. TRICON Type 41A Packing Materials.**

Item, NSN	Qty
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Pallet, heater assembly, 9-1-0767 (81337)	1
Special Purpose Web Tiedown, 3990-01-204-3009	6
Spacer, wood, 9-1-0765-1 (81337)	1
Spacer, wood, 9-1-0765-2 (81337)	1
Spacer, wood, 9-1-0765-3 (81337)	1
Spacer, wood, 9-1-0765-4 (81337)	1
ECU Corner Protector, 9-1-0752-1	2
Pad, energy dissipating, 3-in thick (honeycomb)	As required
Corrugated Fiberboard Stock, 4-foot x 8-foot, ASTM-D4727	6
Gasket, 2 X 2 In X .050 thick nominal	8

**Table 3. TRICON Type 41A Packing Materials - Continued.**

Item, NSN	Qty
Washer, Flat, 1/2-inch, CRES	4
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Twine, Cotton, Wrapping, T-T-871	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Eye Bolt, 1-inch Id, 1/2-13UNC-2A, CRES, 4-inch Shank	4
Nut, Locking, 1/2-13UNC-2B, CRES	4

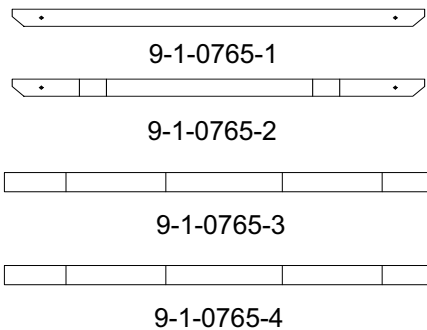
Use the following procedures to pack TRICON Type 41A:

1. Locate TRICON with "BILLETING HEATER KIT; CO. TYPE 41A..." stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.

**NOTE**

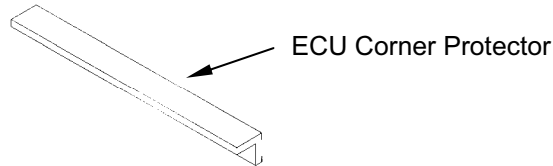
The heater pallet including the hardware along with the reusable wood spacers should have been retained and placed into the TRICON after unpacking. If these items are not available for re-packing, new ones must be requested or constructed as described in the drawings indicated. Refer to WP 0003 00.

3. Locate four reusable wood spacers and place the spacers on the pallet.



4. Locate spacer -2 at 8 1/4-inch from the front and 7 1/2-inch from the right side, parallel with the side. The beveled corners of the spacer face outward.
5. Secure the spacer to the skid with eyebolts, nut, and washer. Install two gaskets under and on top of the floor. The eyebolt openings should be perpendicular to the length of the spacer.
6. Place a layer of 1/8-inch fiberboard (48-inch x 70-inch max) on the platform, centered under the location for the heaters.
7. Place the first heater with power cords facing to the right, and jack stand in notch in spacer -2. Unit should be square to platform with supports up as tight as possible to the spacer.
8. Place a 48-inch x 65-inch x 1/4-inch sheet of fiberboard between heaters before placing the second unit in the same orientation next to the first heater. Place jack stand in the notch of the spacer.
9. Locate spacer -1 and place it up against and centered between the heaters, beveled corners facing outward. Secure the spacer in the same manner as the previous one.

10. Place spacers -3 and -4 on top of the lower two heaters, just inside the bolt heads holding the heater covers on the frame. Place spacer-3 on the right side, spacer -4 on the left side. Ensure ends of spacers do not protrude and are even with the heater frames.
11. Place the third and fourth heater on top of the lower units, maintaining alignment with the lower units.
12. Locate four special purpose tiedowns. Strap the heaters from the lifting rings to the eyebolts in a crisscross fashion. Tighten each strap sequentially to ensure alignment of the package is maintained.
13. Place sheets of 1/8 inch fiberboard, over the exposed top, front, rear, and side faces of the heater package. Place ECU Corner Protectors (9-1-0752) if available, on both right and left sides of the upper heaters. Cover all sharp edges, protruding hardware, and corners with cushioning material and hold in place with tape.



14. Locate one each copy of the technical manual, Army Space Heater, TM 9-4520-258-24P and place into a bag of barrier material. Seal with tape.
15. Locate two each special purpose web tiedowns. Connect the un-ratcheted ends of the tiedowns to the rear corner tiedown loops approximately three feet above the TRICON floor. Temporarily locate tiedown straps out of the way to facilitate loading of the heater pallet assembly into the TRICON.
16. Using a forklift, place the heater pallet assembly into the container as shown. Crisscross the special purpose web tiedown straps over the heater pallet assembly. Secure ends to the tiedown loops in the front corners approximately three feet above the TRICON floor.
17. Locate eight each duct, return/supply air previously packed and place on top of heater pallet assembly in four rows of two, against the rear wall of the container as shown.
18. Locate four each debris screen previously packed and place in front of duct, return/supply air on the right side as shown.
19. Locate one each technical manual, Army Space Heater, TM 9-4520-258-24P previously packed. Place in front of debris screens on the right side as shown.
20. Locate four each adapters, drum fill, 2-port previously packed and place in front of duct, return/supply air on the left side, next to the debris screens as shown.
21. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Use Insert(s) to fill voids between the packaged contents. These fillers and dunnage is used to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
22. Ensure that three each TRICON connectors are located in the holder on the lower inside of the right hand TRICON door.

23. Close and secure TRICON doors.

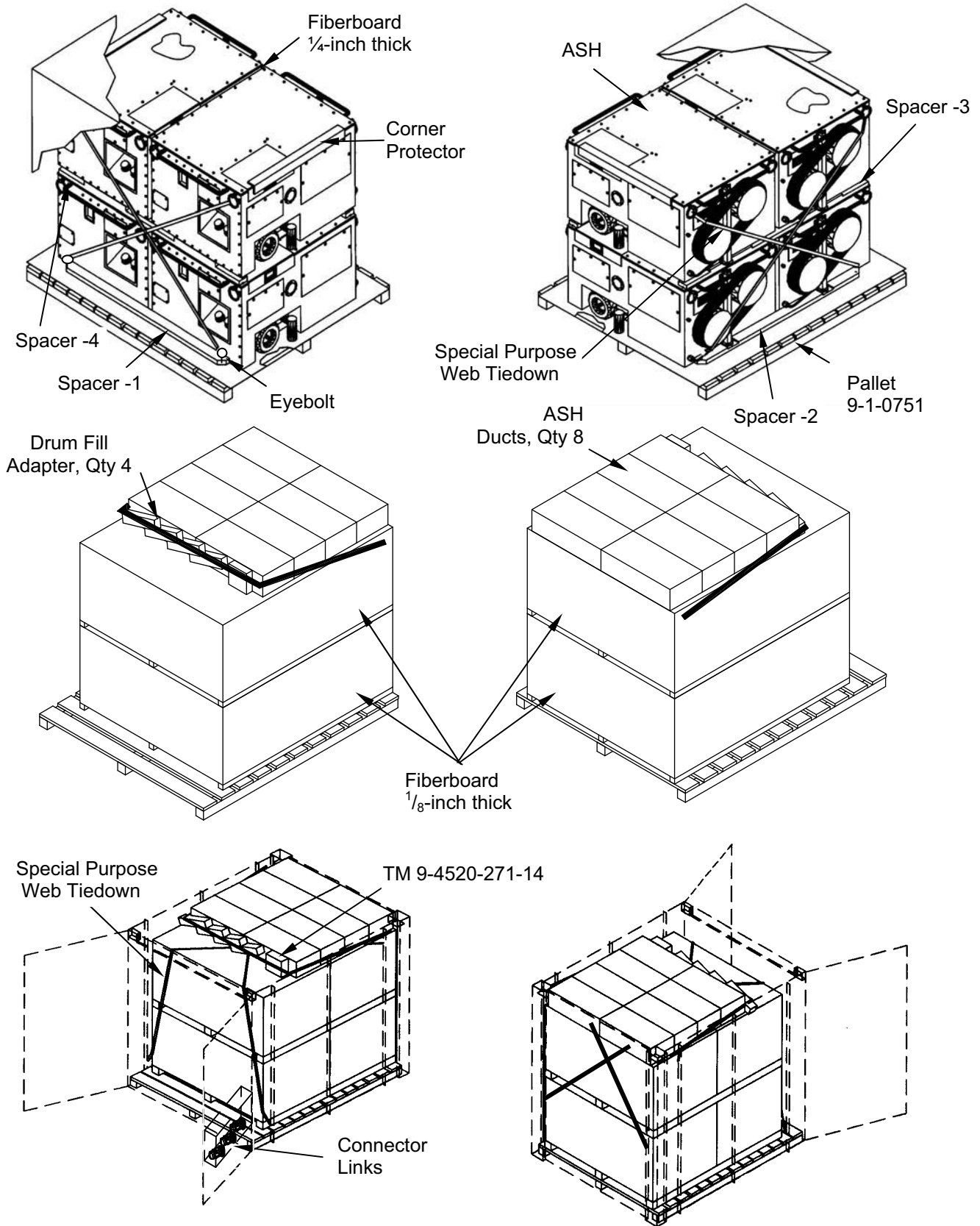


Figure 1. Field Packing Billeting Heater Kit Type 41A.

**FIELD PACKING TENT KIT PART B TYPE 42A**

This paragraph provides information to pack equipment into TRICON Type 42A. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON, Type 42A. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 42A refer to Table 2, WP 0038 00.  
 For information and illustrations of TEMPER components refer to TM 10-8340-224-13.  
 For information and illustrations of other MSCW components refer to WP 0038 00 and WP 0100 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

To prepare Tent Bundle #1, locate the following items:

**Table 4. Tent Bundle #1.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Window Section, D/T	2
Line, Tent	8
Slip, Tent Line	8
Tent Fly, 16-foot, D/T	1
Line, Tent	6
Slip, Tent Line	6
End Section, D/T	1
Line, Tent	2
Slip, Tent Line	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent 1, Bundle 1 of 4", "Tent 1, Bundle 2 of 4", "Tent 2, Bundle 1 of 4" and "Tent 2, Bundle 2 of 4".
6. Repeat steps 1 through 5 above and package tent bundles #2, #3, and #4 in the same manner.

To prepare Tent Bundle #2, locate the following items:

**Table 5. Tent Bundle #2.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2



**Table 5. Tent Bundle #2 – Continued.**

Item	Quantity
Plenum, End Wall, TEMPER	1
Plenum, Entrance, 16 –ft, TEMPER	1
Plenum, Extendable 16 –ft, TEMPER	1
Partition	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., “Tent 1, Bundle 3 of 4” and “Tent 2, Bundle 3 of 4”.
6. Repeat steps 1 through 5 above and package another tent bundle #2 in the same manner.

To prepare Tent Bundle #3, locate the following items:

**Table 6. Tent Bundle #3.**

Item	Quantity
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2
Partition	1
Container, Pin	3
Vestibule Container, TEMPER	1
Vestibule with Door, TEMPER	1
Line, Tent	4
Slip, Tent Line	4
Vestibule Floor, SP, TEMPER	1

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., Tent 1, Bundle 4 of 4 and Tent 2, Bundle 4 of 4.
6. Repeat steps 1 through 5 above and package another tent bundle #3 in the same manner.

To prepare End Section Frame Assembly Bundles, locate the following items:

**Table 7. End Section Frame Assembly.**

<b>Item</b>	<b>Quantity</b>
Arch Assembly	2
Transport Storage Cover	1
Header Assembly	2
Purlin Assembly	5
Eave Extender	4
Ridge Extender	2

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98.5-inches long x 17- inches wide x 8-inches tall.
7. Repeat steps 1 through 6 above and package another end section frame bundle in the same manner.

To prepare the Window Section Frame Assembly Bundles, locate the following items:

**Table 8. Window Section Frame Assembly.**

<b>Item</b>	<b>Quantity</b>
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender	1
Transport Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover and close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98.5-inches long x 17-inches wide x 8-inches tall.
7. Repeat steps 1 through 6 above and package five additional window section frame bundles in the same manner.

Locate three Vestibule Frame Assemblies, each consisting of the following components:

**Table 9. Vestibule Frame Assembly.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

1. Locate one vestibule frame container.
2. Place three vestibule frame assemblies inside the vestibule frame container. Place cushioning material between any metal parts that contact each other in the container. Secure with tape.

To prepare the tent pins for packing, proceed as follows:

1. Locate or fabricate four each tent pin boxes and place 30 each 18-inch steel tent pins in each box. Tack each corner of the top with a nail and secure each box with steel strapping.
2. Locate two fabric tent pin containers and place 25 each wood tent stakes in each container. Secure containers with tie provided.

To prepare the remaining equipment for packing, proceed as follows:

1. Locate eight each extension cords, 20A, 50-foot, Class L to commercial. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine, or cable ties. Place four each of the extension cords in a close fitting sealed fiberboard box.
2. Locate four each hose assemblies, heat trace, 1¼-inch x 25-foot and four (4) hose assemblies, heat trace, 2½-inch x 75-foot, prepared previously. Wrap each hose coupling in two layers of cushioning material and secure in place with tape. Wrap each coupling in barrier paper and secure with tape.
3. Locate six each floormats. Tightly roll each 32-foot floormat and secure roll in two places with tape.
4. Locate one each technical manual TM 10-8340-224-23P, and one each TM 10-5419-206-13 and TM10-5419-206-23&P. Place the technical manuals in a single bag made with barrier material and seal with tape.

**Packing Procedures for TRICON Type 42A**

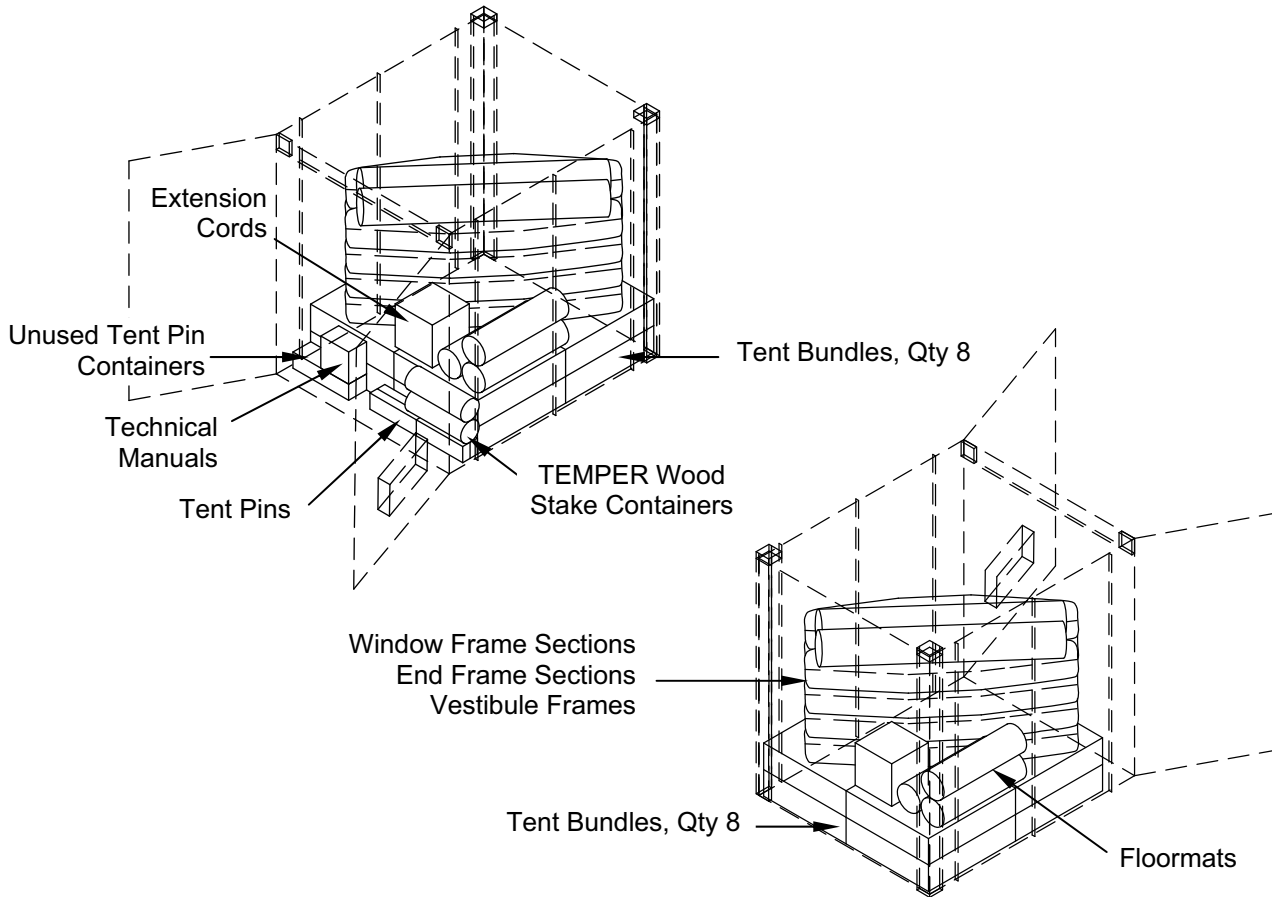
The following materials and items are required to pack TRICON 42A:

**Table 10. TRICON Type 42A Packing Materials.**

Item, NSN	Qty
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Corrugated Fiberboard Stock, 4-foot x 8-foot, ASTM-D4727	4
Special Purpose Web Tiedown, 3990-01-204-3009	4
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Lumber 2 x 6 x 75 ¾-inch	3
Pad, Energy Dissipating, 3-in thick (honeycomb), 1670-00- 753-3928	As required

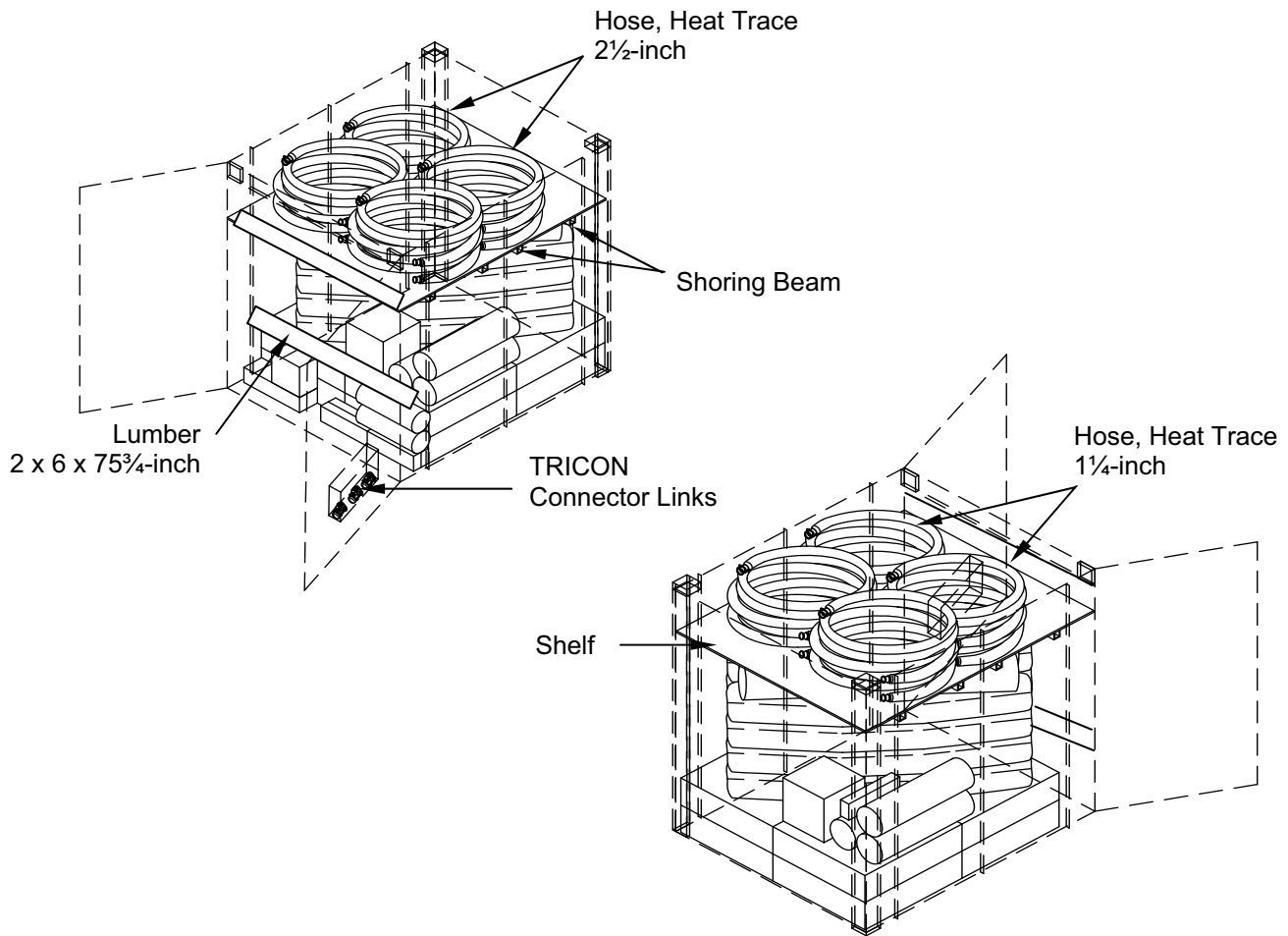
Use the following procedures to pack TRICON Type 42A:

1. Locate TRICON with "TENT KIT PART A; CO. TYPE 42A..." stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate the four tent bundles 5 thru 8 as prepared previously. Place these bundles flat on the TRICON floor forming a uniform layer covering the entire floor. Make sure that the bundles do not overhang out the front of the TRICON interfering with closing the door.
5. Locate the four tent bundles 1 through 4 as prepared previously. Place these bundles flat over the first layer forming a uniform second layer. Make sure that the bundles do not overhang out the front of the TRICON interfering with closing the door.
6. Locate two end section frames and six window section frames. Proceed with caution as you place the frames in the container. Make sure that the frame sections do not interfere with the 2-inch x 6-inch boards that will go across the front of the TRICON when packing is complete or the closing of the TRICON door. Also, ensure that the stack of frames is flat and stable. Place frame sections diagonally over the tent bundles lying from right rear to left front.
7. Locate four tent pin boxes and place on the front floor of the TRICON against the tent bundles with stenciling facing front. Secure in position with a 2-inch x 6-inch x 72<sup>3</sup>/<sub>4</sub>-inch so that the contents will not interfere with the closing of the TRICON door.
8. Locate the following material and securely nest in left rear triangle of container: three floor mats, four extension cords, 50-foot, one tent pin container bundle, and one vestibule frame assembly container.
9. Locate the following material and securely nest in right front triangle of container: three floor mats, four extension cords, 50-foot, two containers, wood tent pin, one vestibule frame assembly container, and technical manuals.
10. Locate four TRICON shoring beams. Install them so that the bottom of the bracket is at the lowest possible position and at the beam locations marked at the vertical uprights.



11. Locate and install the two shelf assemblies on top of the four shoring beams.
12. Locate eight heat trace hose assemblies previously prepared. Securely nest each assembly on shelf.
13. Install the two remaining 2-inch x 6-inch lumber braces across the front of the TRICON to support the items and packaging material.
14. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
15. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand door.

16. Close and secure TRICON doors.



**Figure 2. Field Packing Tent Kit Part A Type 42A.**

#### **FIELD PACKING TENT KIT PART B TYPE 42B**

This paragraph provides information to pack equipment into TRICON Type 42B. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into designated containers, and maintain uniformity of similar TRICON. The following procedures are for field packing one TRICON, Type 42B. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

#### **Pertinent References:**

For a complete inventory of TRICON Type 42B refer to Table 3, WP 0038 00.

For information and illustrations of TEMPER components refer to TM 10-8340-224-13.

For information and illustrations of other MSCW components refer to WP 0038 00 and WP 0100 00.

For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

Equipment must be clean, dry, and debris-free before packing.

To prepare Tent Bundle #1, locate the following items:

**Table 11. Tent Bundle #1.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	2
Line, Tent	8
Slip, Tent Line	8
Tent Fly, 16-foot, D/T	1
Line, Tent	6
Slip, Tent Line	6
End Section, D/T	1
Line, Tent	2
Slip, Tent Line	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent 1, Bundle 1 of 4", "Tent 1, Bundle 2 of 4", "Tent 2, Bundle 1 of 4" and "Tent 2, Bundle 2 of 4".
6. Repeat steps 1 through 5 above and package tent bundles #2, #3, and #4 in the same manner.

To prepare Tent Bundle #2, locate the following items:

**Table 12. Tent Bundle #2.**

Item	Quantity
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2
Plenum, End Wall, TEMPER	1
Plenum, Entrance, 16 -ft, TEMPER	1
Plenum, Extendable 16 -ft, TEMPER	1
Partition	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.

5. Bundle identification stencil must be visible, i.e., “Tent 1, Bundle 3 of 4” and “Tent 2, Bundle 3 of 4”.
6. Repeat steps 1 through 5 above and package another tent bundle #2 in the same manner.

To prepare Tent Bundle #3, locate the following items:

**Table 13. Tent Bundle #3.**

Item	Quantity
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2
Partition	1
Container, Pin	3
Vestibule Container, TEMPER	1
Vestibule with Door, TEMPER	1
Line, Tent	4
Slip, Tent Line	4
Vestibule Floor, SP, TEMPER	1

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., Tent 1, Bundle 4 of 4 and Tent 2, Bundle 4 of 4.
6. Repeat steps 1 through 5 above and package another tent bundle #3 in the same manner.

To prepare End Section Frame Assembly Bundles, locate the following items:

**Table 14. End Section Frame Assembly.**

Item	Quantity
Arch Assembly	2
Transport Storage Cover	1
Header Assembly	2
Purlin Assembly	5
Eave Extender	4
Ridge Extender	2

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.



6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17- inches wide x 8-inches tall.
7. Repeat steps 1 through 6 above and package another end section frame bundle in the same manner.

To prepare the Window Section Frame Assembly Bundles, locate the following items:

**Table 15. Window Section Frame Assembly.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender	1
Transport Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover and close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17-inches wide x 8-inches tall.
7. Repeat steps 1 through 6 above and package five additional window section frame bundles.

Locate three Vestibule Frame Assemblies, each consisting of the following components:

**Table 16. Vestibule Frame Assembly.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

1. Locate one vestibule frame container.
2. Place three vestibule frame assemblies inside the vestibule frame container. Place cushioning material between any metal parts that contact each other in the container. Secure with tape.

To prepare the tent pins for packing, proceed as follows:

1. Locate or fabricate four each tent pin boxes and place 30 each 18-inch steel tent pins in each box. Tack each corner of the top with a nail and secure each box with steel strapping.
2. Locate two fabric tent pin containers and place 25 each wood tent stakes in each container. Secure containers with tie provided.

To prepare the remaining items for packing, proceed as follows:

1. Locate eight extension cords, 20A, 50-foot, Class L to commercial. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector

end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine, or cable ties. Place four each of the extension cords in a close fitting sealed fiberboard box.

2. Locate four hose assemblies, heat trace, 1¼-inch x 25-foot and four hose assemblies, heat trace, 2½-inch x 75-foot, prepared previously. Wrap each hose coupling in two layers of cushioning material and secure in place with tape. Wrap each coupling in barrier paper and secure in place with tape.
3. Locate six each floormats. Tightly roll each 32-foot floormat and secure roll in two places with tape.
4. Locate one each technical manual TM 10-8340-224-23P, TM 10-5419-206-13, and TM10-5419-206-23&P. Place the technical manuals in a single bag made with barrier material and seal with tape.

**Packing Procedures for TRICON Type 42B**

The following materials and items are required to pack TRICON 42B:

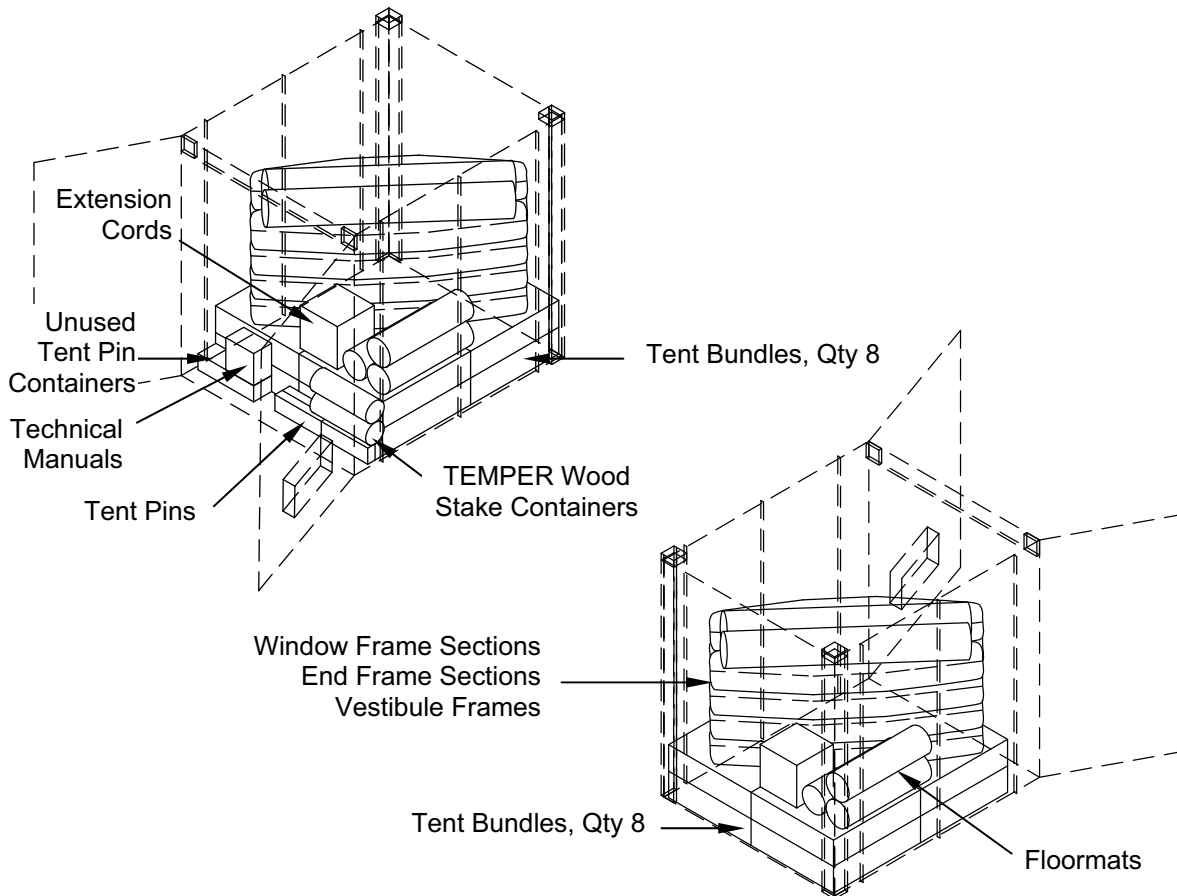
**Table 17. TRICON Type 42B Packing Materials.**

Item, NSN	Qty
Corrugated Fiberboard Stock, 4-foot x 8-foot, ASTM-D4727	4
Special Purpose Web Tiedown, 3990-01-204-3009	4
Lumber 2 x 6 x 75 ¾-inch	3
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Pad, Energy Dissipating, 3-in thick (honeycomb), 1670-00- 753-3928	As required

Use the following procedures to pack TRICON Type 42B:

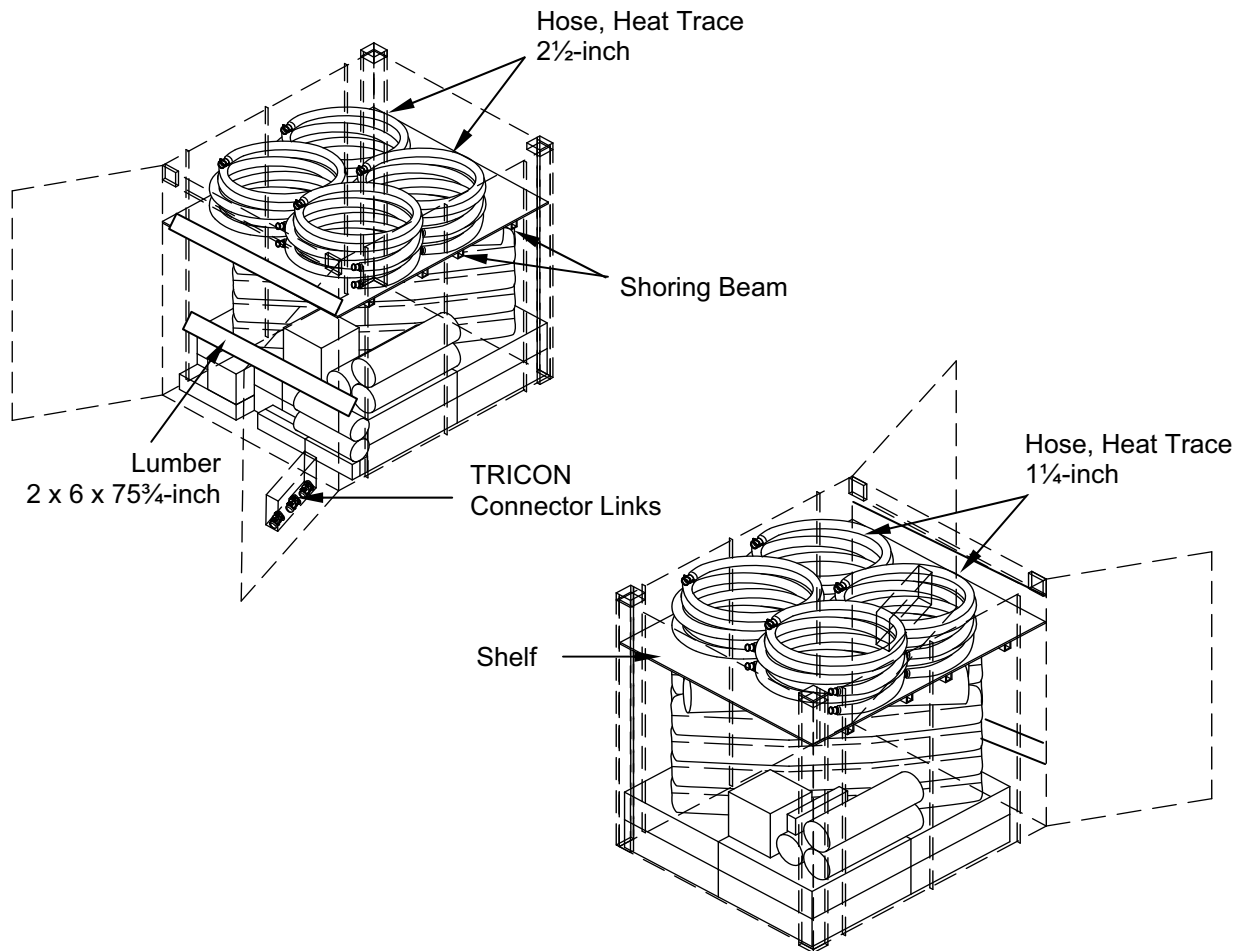
1. Locate TRICON with “TENT KIT PART B; CO. TYPE 42B...” stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate the four tent bundles 5 thru 8 as prepared previously. Place these bundles flat on the TRICON floor forming a uniform layer covering the entire floor. Make sure that the bundles do not overhang out the front of the TRICON interfering with closing the door.
5. Locate the four tent bundles 1 thru 4 as prepared previously. Place these bundles flat over the first layer forming a uniform second layer. Make sure that the bundles do no overhang out the front of the TRICON interfering with closing the door.
6. Locate two end section frames and six window section frames. Proceed with caution as you place the frames in the container. Make sure that the frame sections do not interfere with the 2-inch x 6-inch boards that will go across the front of the TRICON when packing is complete or the closing of the TRICON door. Also, ensure that the stack of frames is flat and stable. Place frame sections diagonally over the tent bundles lying from right rear to left front.
7. Locate four tent pin boxes and place on the front floor of the TRICON against the tent bundles with stenciling facing front. Secure in position with a 2-inch x 6-inch x 72¾-inch so that the contents will not interfere with the closing of the TRICON door.

8. Locate the following material and securely nest in left rear triangle of container: three floor mats, four extension cords, 50-foot, one tent pin container bundle, and one vestibule frame assembly container.
9. Locate the following material and securely nest in right front triangle of container: three floor mats, four extension cords, 50-foot, two containers, wood tent pin, one vestibule frame assembly container, and technical manuals.
10. Locate four TRICON shoring beams. Install them so that the bottom of the bracket is at the lowest possible position and at the beam locations marked at the vertical uprights.



11. Locate and install the two shelf assemblies on top of the four shoring beams.
12. Locate the eight heat trace hose assemblies previously prepared. Securely nest assemblies on shelf.
13. Install the two remaining 2-inch x 6-inch lumber braces across the front of the TRICON to support the items and packaging material.
14. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
15. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand door.

16. Close and secure TRICON doors.



**Figure 3. Field Packing Tent Kit Part B Type 42B.**

### **FIELD PACKING TENT KIT PART C TYPE 42C**

This paragraph provides information to pack equipment into TRICON Type 42C. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON, Type 42C. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

#### **Pertinent References:**

For a complete inventory of TRICON Type 42C refer to Table 4, WP 0038 00.  
 For information and illustrations of TEMPER components refer to TM 10-8340-224-13.  
 For information and illustrations of other MSCW components refer to WP 0038 and WP 0100 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

To prepare Tent Bundle #1, locate the following items:

**Table 18. Tent Bundle #1.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	2
Line, Tent	8
Slip, Tent Line	8
Tent Fly, 16-foot, D/T	1
Line, Tent	6
Slip, Tent Line	6
End Section, D/T	1
Line, Tent	2
Slip, Tent Line	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent 1, Bundle 1 of 4", "Tent 1, Bundle 2 of 4", "Tent 2, Bundle 1 of 4" and "Tent 2, Bundle 2 of 4".
6. Repeat steps 1 through 5 above and package tent bundles #2, #3, and #4 in the same manner.

To prepare Tent Bundle #2, locate the following items:

**Table 19. Tent Bundle #2.**

Item	Quantity
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2
Plenum, End Wall, TEMPER	1
Plenum, Entrance, 16 -ft, TEMPER	1
Plenum, Extendable 16 -ft, TEMPER	1
Partition	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., "Tent 1, Bundle 3 of 4" and "Tent 2, Bundle 3 of 4".

6. Repeat steps 1 through 5 above and package another tent bundle #2 in the same manner.

To prepare Tent Bundle #3, locate the following items:

**Table 20. Tent Bundle #3.**

<b>Item</b>	<b>Quantity</b>
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
End Section Liner, TEMPER	1
Tent Floor, 8-ft, SP, TEMPER	2
Partition	1
Container, Pin	3
Vestibule Container, TEMPER	1
Vestibule with Door, TEMPER	1
Line, Tent	4
Slip, Tent Line	4
Vestibule Floor, SP, TEMPER	1

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., Tent 1, Bundle 4 of 4 and Tent 2, Bundle 4 of 4.
6. Repeat steps 1 through 5 above and package another tent bundle #3 in the same manner.

To prepare End Section Frame Assembly Bundles, locate the following items:

**Table 21. End Section Frame Assembly.**

<b>Item</b>	<b>Quantity</b>
Arch Assembly	2
Transport Storage Cover	1
Header Assembly	2
Purlin Assembly	5
Eave Extender	4
Ridge Extender	2

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.

6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17- inches wide x 8-inches tall.
7. Repeat steps 1 through 6 above and package another end section frame bundle in the same manner.

To prepare the Window Section Frame Assembly Bundles, locate the following items:

**Table 22. Window Section Frame Assembly.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender	1
Transport Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover and close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17-inches wide x 8-inches tall.
7. Repeat steps 1 through 6 above and package five additional window section frame bundles in the same manner.

Locate three Vestibule Frame Assemblies, each consisting of the following components:

**Table 23. Vestibule Frame Assembly.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

1. Locate one vestibule frame container.
2. Place three vestibule frame assemblies inside the vestibule frame container. Place cushioning material between any metal parts that contact each other in the container. Secure with tape.

To prepare the tent pins for packing, proceed as follows:

1. Locate or fabricate four each tent pin boxes and place 30 each 18-inch steel tent pins in each box. Tack each corner of the top with a nail and secure each box with steel strapping.
2. Locate two fabric tent pin containers and place 25 each wood tent stakes in each container. Secure containers with tie provided.

Locate eight extension cords, 20A, 50-foot, Class L to commercial. Wrap the connectors on each end of the cable in two layer of cushioning material and secure in place with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine, or cable ties. Place four each of the extension cords in a close fitting sealed fiberboard box.

Locate twelve hose assemblies, heat trace, 2½-inch x 75-foot, prepared previously. Wrap each hose coupling in two layers of cushioning material and secure in place with tape. Wrap each coupling in barrier paper and secure in place with tape.

Locate six floormats. Tightly roll each 32-foot floormat individually, and secure roll in two places with tape.

Locate one each technical manual TM10-5419-206-23&P. Place the technical manual in a bag made with barrier material and seal with tape.

**Packing Procedures for TRICON Type 42C**

The following materials and items are required to pack TRICON 42C:

**Table 24. TRICON Type 42C Packing Material.**

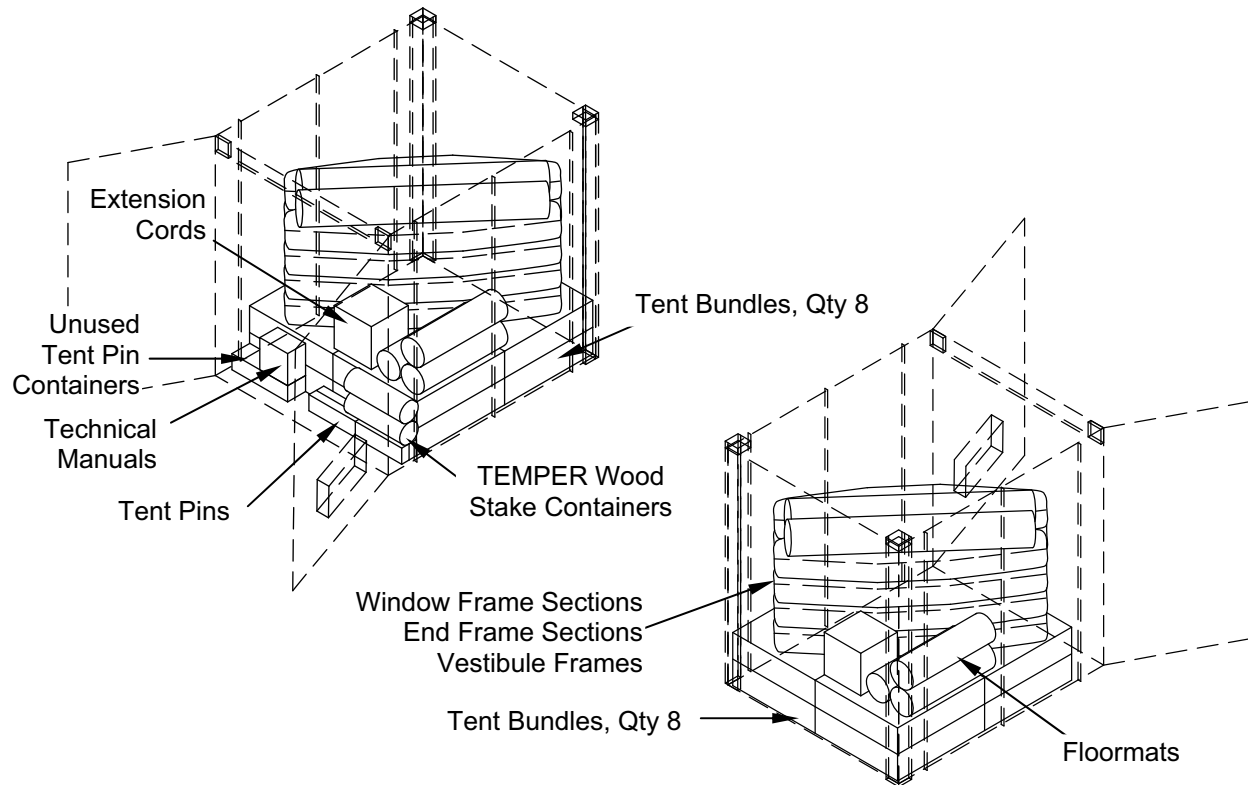
Item, NSN	Qty
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Corrugated Fiberboard Stock, 4-foot x 8-foot, ASTM-D4727	4
Special Purpose Web Tiedown, 3990-01-204-3009	4
Shelf, Shipping and Storage NSN 8145-01-503-4404	2
Shoring Beam NSN 9540-01-491-3804	4
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Lumber, 2-inch X 6-inch X 75 ¾-inch Long	3
Pad, Energy Dissipating, 3-in thick (honeycomb), 1670-00- 753-3928	As required

Use the following procedures to pack bottom layer of TRICON Type 42C:

1. Locate TRICON with “TENT KIT PART C; CO. TYPE 42C...” stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
4. Locate the four tent bundles 5 thru 8 as prepared previously. Place these bundles flat on the TRICON floor forming a uniform layer covering the entire floor. Make sure that the bundles do not overhang out the front of the TRICON interfering with closing the door.
5. Locate the four tent bundles 1 thru 4 as prepared previously. Place these bundles flat over the first layer forming a uniform second layer. Make sure that the bundles do no overhang out the front of the TRICON interfering with closing the door.
6. Locate two end section frames and six window section frames. Proceed with caution as you place the frames in the container. Make sure that the frame sections do not interfere with the 2-inch x 6-inch boards that will go across the front of the TRICON when packing is complete or the closing of the TRICON door. Also, ensure that the stack of frames is flat and stable. Place frame sections diagonally over the tent bundles lying from right rear to left front.
7. Locate four tent pin boxes and place on the front floor of the TRICON against the tent bundles with stenciling facing front. Secure in position with a 2-inch x 6-inch x 72¾-inch so that the contents will not interfere with the closing of the TRICON door.



8. Locate the following material and securely nest in left rear triangle of container as shown: three floor mats, four extension cords, 50-foot, one tent pin container bundle, and one vestibule frame assembly container.
9. Locate the following material and securely nest in right front triangle of container as shown: three floor mats, four extension cords, 50-foot, two containers, wood tent pin, one vestibule frame assembly container, and technical manual.
10. Locate four TRICON shoring beams. Install them so that the bottom of the bracket is at the lowest possible position and at the beam locations marked at the vertical uprights.



11. Locate and install the two shelf assemblies on top of the four shoring beams.
12. Locate the eight heat traced hose assemblies, as previously prepared. Securely nest each assembly on shelf.
13. Install the two remaining 2-inch x 6-inch lumber braces across the front of the TRICON to support the items and packaging material.
14. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
15. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand door.

16. Close and secure TRICON doors.

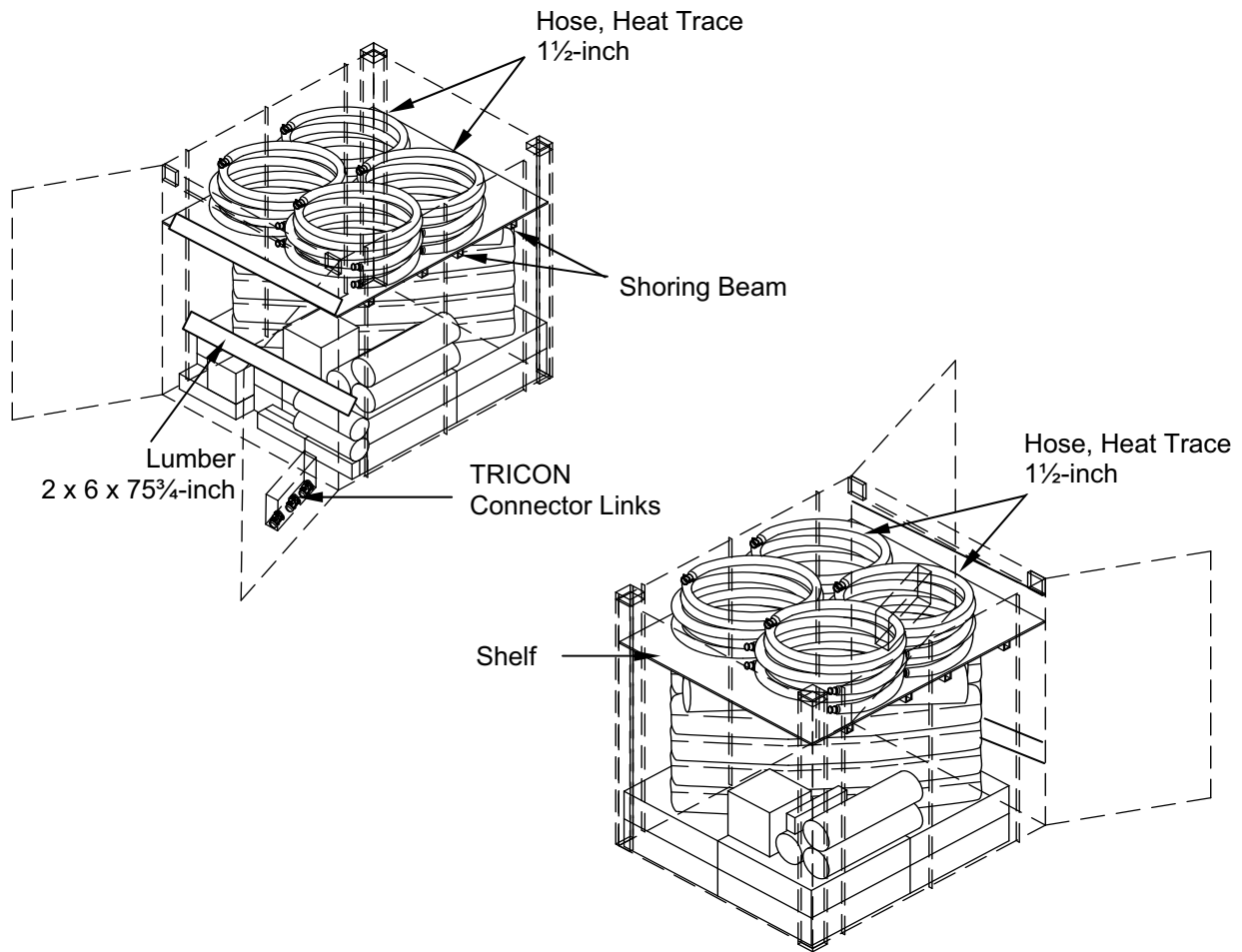


Figure 4. Field Packing Tent Kit Part C Type 42C.

**FIELD PACKING WATER BLADDER TENT KIT TYPE 43A**

This paragraph provides information to pack equipment into TRICON Type 43A. Close adherence to these procedures is imperative to prevent equipment damage, allow all equipment to fit into the TRICON and maintain uniformity of similar TRICON. The following procedures are for field packing one of three identical TRICON, Type 43A. One each of these TRICON is used by the Food service, Shower, and laundry subsystems. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

- For a complete inventory of TRICON Type 43A refer to Table 5, WP 0038 00.
- For information and illustrations of TEMPER components refer to TM 10-8340-224-13.
- For information and illustrations of other MSCW components refer to WP 0038 00 and WP 0100 00.
- For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.

To prepare Tent Bundle #1, locate the following items:

**Table 25. Tent Bundle #1.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	1
Intermediate Liner	1
Line, Tent	4
Slip, Tent Line	4
Tent Fly, 16-foot, D/T	1
Line, Tent	6
Slip, Tent Line	6
End Section, D/T	1
Line, Tent	2
Slip, Tent Line	2

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on a clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle sequential identification stencil must be visible, i.e., "Tent 1, Bundle 1 of 7", "Tent 1, Bundle 2 of 7", "Tent 2, Bundle 1 of 7" and "Tent 2, Bundle 2 of 7".
6. Repeat steps 1 through 5 above and package tent bundles #2, #3, and #4 in the same manner.

To prepare Tent Bundle #2, locate the following items:

**Table 26. Tent Bundle #2.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	1
Intermediate Liner, TEMPER	1
Line, Tent	4
Slip, Tent Line	4
Tent Fly, 16-foot, D/T	1
Line, Tent	6
Slip, Tent Line	6

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.

5. Bundle identification stencil must be visible, i.e., “Tent 1, Bundle 3 of 7” and “Tent 2, Bundle 3 of 7”.
6. Repeat steps 1 through 5 above and package another tent bundle #2 in the same manner.

To prepare Tent Bundle #3, locate the following items:

**Table 27. Tent Bundle #3.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	2
Intermediate Liner, TEMPER	1
Line, Tent	8
Slip, Tent Line	8
Tent Fly, 16-foot, D/T	1
Line, Tent	6
Slip, Tent Line	6

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., “Tent 1, Bundle 4 of 7” and “Tent 2, Bundle 4 of 7”.
6. Repeat steps 1 through 5 above and package another tent bundle #2 in the same manner.

To prepare Tent Bundle #4, locate the following items:

**Table 28. Tent Bundle #4.**

Item	Quantity
Cover, Tent, TEMPER	1
Window Section, D/T	1
Intermediate Liner, TEMPER	1
Line, Tent	4
Slip, Tent Line	4
Vestibule Container, TEMPER	1
Vestibule with Door, TEMPER	1
Line, Tent	4
Slip, Tent Line	4

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.

5. Bundle identification stencil must be visible, i.e., “Tent 1, Bundle 5 of 7” and “Tent 2, Bundle 5 of 7”.
6. Repeat steps 1 through 5 above and package another tent bundle #2 in the same manner.

To prepare Tent Bundle #5, locate the following items:

**Table 29. Tent Bundle #5.**

Item	Quantity
Cover, Tent, TEMPER	1
Intermediate Liner, TEMPER	1
Window Section, D/T	1
Line, Tent	4
Slip, Tent Line	4
End Section Liner	1

1. On a clean flat surface, neatly fold each item into a flat, compact package that is 38-inches long by 38-inches wide, plus or minus 2-inches. Ensure that the identification labels on each component are visible when item is completely folded. Confirm that each item has the necessary number of lines/slips included in the fold.
2. Place tent cover on clean flat surface.
3. Neatly stack each item one on top of each other in the center of one of the tent covers.
4. Tightly wrap bundle inside the tent cover. Secure tent cover.
5. Bundle identification stencil must be visible, i.e., “Tent 1, Bundle 6 of 7” and “Tent 2, Bundle 7 of 7”, “tent 2, bundle 6 of 7” and “tent 2, bundle 7 of 7”.
6. Repeat steps 1 through 5 above and package another tent bundle #2 in the same manner.

To prepare End Section Frame Assembly Bundles, locate the following items:

**Table 30. End Section Frame Assembly.**

Item	Quantity
Arch Assembly	2
Transport Storage Cover	1
Header Assembly	2
Purlin Assembly	5
Eave Extender	4
Ridge Extender	2

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover. Close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17- inches wide x 8-inches tall.

7. Repeat steps 1 through 6 above and package another end section frame bundle in the same manner.

To prepare the Window Section Frame Assembly Bundles, locate the following items:

**Table 31. Window Section Frame Assembly.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender	1
Transport Storage Cover	1

1. Place frame transport/storage cover on clean flat surface.
2. Lay disassembled arch sections one on top of another in the center of the frame cover.
3. Position the five purlins and two headers on top of the arch sections.
4. Insert the eave and ridge extenders in open spaces between the other frame components.
5. Secure components with the straps provided inside the frame cover and close up cover and secure.
6. The overall dimensions of the bundled frame section shall not exceed 98½-inches long x 17-inches wide x 8-inches tall.
7. Repeat steps 1 through 6 above and package thirteen additional window section frame bundles in the same manner.

Locate three Vestibule Frame Assemblies, each consisting of the following components:

**Table 32. Vestibule Frame Assembly.**

Item	Quantity
Vestibule Door Post, Tent	2
Vestibule Header, Tent Frame	1

1. Locate one vestibule frame container.
2. Place three vestibule frame assemblies inside the vestibule frame container. Place cushioning material between any metal parts that contact each other in the container. Secure with tape.

To prepare the tent pins for packing, proceed as follows:

1. Locate or fabricate seven each tent pin boxes and place 30 each 18-inch steel tent pins in each box. Tack each corner of the top with a nail and secure each box with steel strapping.
2. Locate four fabric tent pin containers and place 53 each 12-inch steel tent pins in each container. Secure with tie provided.
3. Locate four fabric tent pin containers and place 27 each wood tent stakes in each container. Secure with tie provided.

To prepare the remaining items for packing, proceed as follows:

1. Locate six floormats. Tightly roll each 32-foot floormat individually, and secure roll with tape.

2. Locate the TRICON adapter kit components removed and set aside previously. Wrap items into barrier paper and seal with tape. Place items into a fiberboard container and close with tape.
3. Locate one technical manual, TM 10-8340-224-13. Place the manual into a bag made with barrier material and seal with tape.

**Packing Procedures for TRICON Type 43A**

The following materials and items are required to pack TRICON 43A:

**Table 33. TRICON Type 43A Packing Materials.**

Item, NSN	Qty
Corrugated Fiberboard Stock, 4-foot x 8-foot, ASTM-D4727	4
Special Purpose Web Tiedown, 3990-01-204-3009	4
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Steel Strapping, 1/2-Inch, (ASTM D-3953)	As required
Tape, Pressure-Sensitive, Adhesive, Preservation and Sealing, SAE-AMS-T-22085	As required
Lumber, 2-inch X 6-inch X 75 3/4-inch Long	1
Pad, energy dissipating, 3-in thick (honeycomb) 1670-00-753-3928	As required

Use the following procedures to pack bottom layer of TRICON Type 43A:

1. Locate TRICON with "WATER BLADDER TENT KIT; CO. TYPE 43A..." stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container. Ensure interior is clean and dry.
3. Ensure TRICON modification kit has been installed as part of the PREPARATION FOR MOVEMENT OF HOT WATER EQUIPMENT described in this WP.
4. Place one layer of fiberboard on the floor of the TRICON. Trim excess fiberboard as required.
5. Place two end section frames diagonally directly on the floor. Install a 2-inch x 6-inch brace along the bottom edge of the door opening to the TRICON.
6. Locate two fabric bundles. Place one bundle in each of the triangular areas created by the frames. In the remaining voids, place the tent pin boxes, up tight against the walls of the container.
7. Load the wood stakes flat and with points outward, insure that the load will not be punctured by sharp objects as more weight is placed on top.
8. Place two window frame bundles directly on top of the first frame bundles. Place tent fabric bundles to fill the triangular voids on each side of the frame bundles. Continue loading the tent frame and fabric bundles as neatly as possible.
9. As the loading of the container progresses, install cross board restraint beams (lumber, 2-inch x 6-inch x 75 3/4 -inch) as necessary to secure material. Ensure the beams do not interfere with the closing of the TRICON door.
10. Place the one TRICON adapter kit, six floor mats and one technical manual, TM 10-8340-224-13 on top of the tent bundles as shown.
11. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate Insert(s) to fill voids between the packaged contents. These fillers and dunnage is installed to prevent TRICON contents and dunnage from falling out when the doors are opened.

- 12. Ensure that three TRICON connector links are located in the holder on the lower inside of the right hand TRICON door.
- 13. Close and secure TRICON doors.

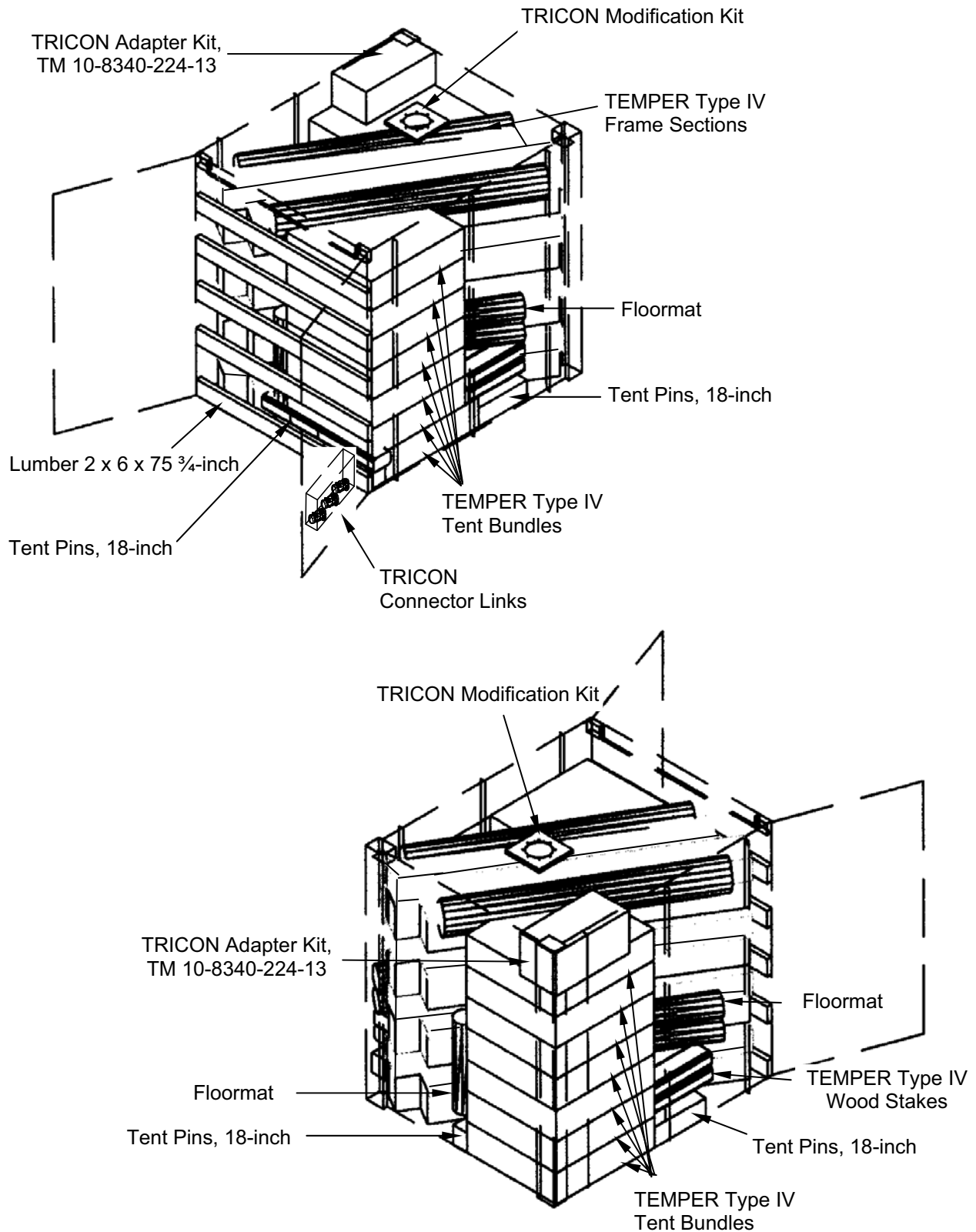


Figure 5. Field Packing Water Bladder Tent Kit Type 43A.



**FIELD PACKING MSCW SITE PREPARATION KIT TYPE 44A**

This paragraph provides information to pack equipment into TRICON Type 44A. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit the TRICON. The following procedures are for field packing one TRICON, Type 44A. Depot shelves, shoring beams, packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 44A refer to Table 6, WP 0038 00.  
 For information and illustration of other MSCW equipment refer to WP 0038 00 and WP 0100 00.  
 For illustrations and information on site preparation items refer to WP 0032 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

To prepare site preparation items for packing, proceed as follows:

1. Locate sixty bundles of sand bags, acrylic (Return only un-used sand bags). Each bundle contains 100 sand bags. Place each bundle in a single bag made of barrier material. Seal bag with tape.
2. Locate twenty extension cord, 25-foot, 120V, GFCI. Wrap the connectors on each end of the cable in two layer of cushioning material and secure with tape. Wrap each connector end in barrier material and secure in place with tape. Coil each assembly and secure with twine or cable ties.
3. Locate the following components in the quantities specified:

**Table 34. Site Preparation Components.**

Item	Quantity	NSN
Saw, Reciprocation, In-Line, 1/2-in	1	5130-00-819-7767
Drill, Rotary Hammer, TE76	4	5130-01-136-0954
Torch AY, Propane Cylinder	4	3439-00-542-0531

4. Ensure all components are included per manufacturer's parts list/manual. Wrap items in a minimum of two wraps of cushioning material. Secure cushioning material in place with tape. Place bags into original manufacturer's box, if available, or a close fitting fiberboard container and close with tape. Place items into a heat-sealed bag made of barrier material and seal with tape.
5. Locate the following items in the quantities specified:

**Table 35. Site Preparation Components.**

Item	Quantity	NSN
Blade Set, .5 Shank, Metal, 18 TPI	1	5130-00-275-1204
Blade Set, .5 Shank, Wood 10 TPI	1	5130-00-275-1203
Drill Bit, TE-Y 5/8-21	8	220637 (11239)
Drill Bit, TE-Y 1-1/4-36	4	220657 (11239)
Drilling Bit, Stake, TE-Y-Rd 3/4	4	220702 (11239)
Punch, Aligning, 12l, 1/4 In Point	12	5120-00-595-9531
Ribbon, Flag Surveyors, Pink	9	9905-01-458-2059

6. Wrap items in a minimum of two wraps of cushioning material. Secure cushioning material in place with tape. Place bags into original manufacturer's box, if available, or a close fitting fiberboard container and close with tape. Place items into a heat-sealed bag made of barrier material and seal with tape.

**Packing Procedures for TRICON Type 44A**

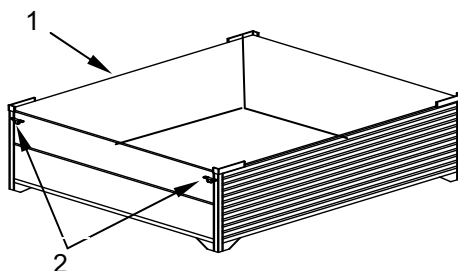
The following materials and items are required to pack TRICON 44A:

**Table 36. TRICON Type 44A Packing Materials.**

Item, NSN	Qty
Corrugated Fiberboard Stock, ASTM-D4727	As required
Special Purpose Web Tiedown, 3990-01-204-3009	2
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required
Pad, energy dissipating, 3-in thick (honeycomb) 1670-00-753-3928	As required

Use the following procedures to pack bottom layer of TRICON Type 44A:

1. Locate TRICON with “MSCW SITE PREPARATION KIT; CO. TYPE 44A...” stenciled on the left door (these containers should be staged in billeting area between each pair of TEMPER).
2. Open doors and remove everything from container, including three small reusable bulk equipment containers (1). Ensure interior of TRICON, as well as reusable containers is clean and dry. Inspect and work each barrel bolt mechanism (2) on the door of each reusable container to ensure they are not damaged and can be opened and closed.



**NOTE**

Each reusable container is stenciled with identification on the front left hand side of the door panel and further identified as TRICON 44A, Container # \_\_\_ of 3.

3. Line the sides and floor of each container with a minimum of two layers of fiberboard. Cut the fiberboard so that it will bend with the door on the container when the door is opened.
4. Locate the following items:

**Table 37. Equipment to Be Packed into Reusable Container 1 of 3.**

Item	Quantity	NSN
Extension cord 25ft, 120v, GFCI	20	6150-01-413-9314
Mallet, rubber head, 24 oz, 15 in	12	5120-00-293-3399
Shovel, snow, plastic, commercial	60	9-1-0604 (81337)
Saw, reciprocation, in-line, ½-Inch	1	5130-00-819-7767
Drill, rotary hammer, TE76	4	5130-01-136-0954
Torch AY, propane cylinder	4	3439-00-542-0531
Blade set, .5 shank, metal, 18 TPI	1	5130-00-275-1204
Blade set, .5 shank, wood 10 TPI	1	5130-00-275-1203

**Table 37. Equipment to Be Packed into Reusable Container 1 of 3 – Continued.**

Item	Quantity	NSN
Drill bit, TE-Y 5/8-21	8	220637 (11239)
Drill bit, TE-Y 1-1/4-36	4	220657 (11239)
Drilling bit, stake, TE-Y-rd 3/4	4	220702 (11239)
Punch, aligning, 12l, 1/4 in point	12	5120-00-595-9531
Ribbon, flag surveyors, pink	9	9905-01-458-2059

5. Place these items into the reusable container 1 of 3.
6. Locate the following items:

**Table 38. Equipment to be packed into Reusable Container 2 of 3.**

Item	Quantity	NSN
Sand bags acrylic	48	A-A-52140A
Shovel, snow, plastic, commercial	60	9-1-0604 (81337)

7. Place these items into the reusable container 2 of 3.
8. Locate the following items:

**Table 39. Equipment to be packed into Reusable Container 3 of 3.**

Item	Quantity	NSN
Sand bags acrylic	48	A-A-52140A
Rake, snow, commercial	72	00605 (81337)

9. Place these items into the reusable container 3 of 3.
10. Locate three ½-inch plywood covers. Place the covers on the reusable containers with cleats facing up. Strap the covers down with three steel banding straps. If covers are no longer available, new covers must be prepared to specifications in drawing 9-1-0758 (81337). (Refer to WP 0003 00.). Cover shall be sized so that it fits into the four corner brackets of the container.
11. Locate qty two special purpose web tiedown. Attach the non-ratcheted end of the tie down to the corner tiedown loops, approximately 2/3 from the container floor. Temporarily secure the loose ends out of the way to allow loading of the packed reusable containers into the TRICON Container.
12. Using a forklift, stack the reusable containers as shown and place them into the TRICON shipping container. Crisscross the special purpose tiedown straps over the top reusable containers. Secure straps to the corner tiedown loops approximately 2/3 from the floor. Neatly fold the excess strapping and secured with cable ties.
13. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
14. Ensure that three TRICON connectors are located in the holder on the lower inside of the right hand TRICON door.

15. Close and secure TRICON doors.

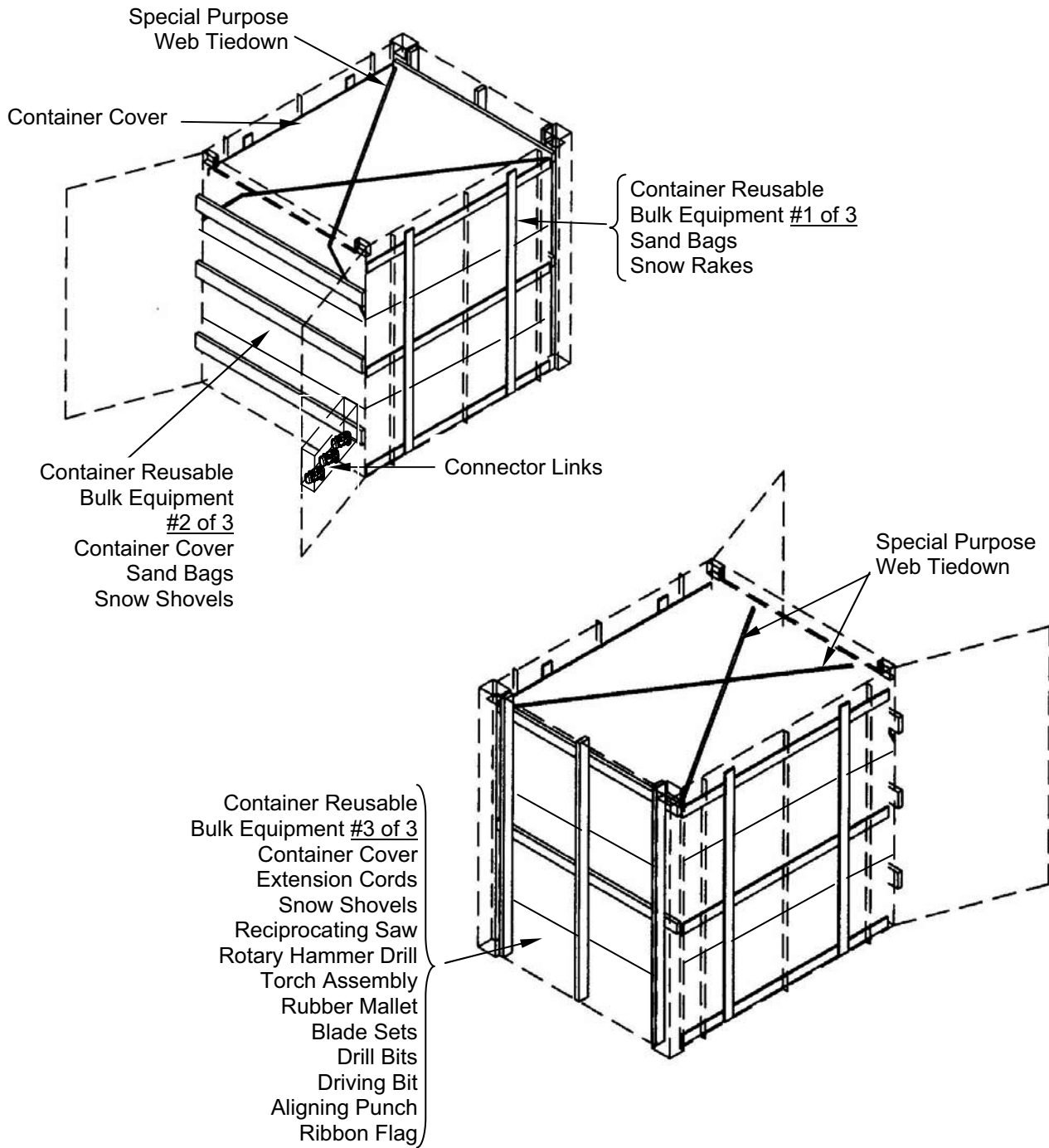


Figure 6. Field Packing MSCW Site Preparation Kit Type 44A.

**FIELD PACKING MSCW SITE PREPARATION KIT TYPE 45A**

This paragraph provides information to pack equipment into TRICON Type 45A. Close adherence to these procedures is imperative to prevent equipment damage, and allow all equipment to fit into the TRICON. The following procedures are for field packing one TRICON, Type 45A. This modified TRICON may be used by the Food service, Shower, or laundry subsystems. Packaging, blocking, bracing, tiedowns, and dunnage retained during unpacking will be needed to repack equipment.

**Pertinent References:**

For a complete inventory of TRICON Type 45A refer to Table 7, WP 0038 00.  
 For information and illustrations of TEMPER components refer to TM 10-8340-224-13.  
 For information and illustration of other MSCW equipment refer to WP 0038 00 and WP 0100 00.  
 For information on packing materials refer to TM 10-5419-206-23P, WP 0002 00.  
 Equipment must be clean, dry, and debris-free before packing.

To prepare site preparation items for packing, proceed as follows:

1. Locate four window section frames.
2. To prepare the window section frame assembly bundles, locate and pack the following items:

**Table 40. Window Section Frame Assembly.**

Item	Quantity
Arch Assembly	1
Header Assembly	1
Purlin Assembly	5
Eave Extender Assembly	2
Ridge Extender	1
Transport Storage Cover	1

- a. Place frame transport/storage cover on clean flat surface.
  - b. Lay disassembled arch sections one on top of another in the center of the frame cover.
  - c. Position the five purlins and two headers on top of the arch sections.
  - d. Insert the eave and ridge extenders in open spaces between the other frame components.
  - e. Secure components with the straps provided inside the frame cover. Close up cover and secure.
  - f. The overall dimensions of the bundled frame section shall not exceed 98.5-inches long x 17-inches wide x 8-inches tall.
  - g. Repeat steps a through f above and package three additional window section frame bundles in the same manner.
3. Locate sixteen each insulated TEMPER floors. On a clean dry surface, fold each to approximately 42-inches x 33-inches with the identification label exposed.

4. Locate the following components in the quantity listed:

**Table 41. TEMPER Components.**

Item	Quantity
Endwall, TEMPER, TRICON	4
Endwall, TEMPER, Vehicle	2
Endwall, TEMPER, ISO, End opening	1
Fly, 16 TEMPER	2
Partition, TEMPER	2
Intermediate, Section Liner TEMPER	4
Window Section, TEMPER Fabric	4

5. On a clean dry surface, fold each item to approximately 33-inches x 36-inches with the identification label exposed.
6. Locate two fire extinguishers and one footlocker. Wrap each fire extinguisher in cushioning material and secure with tape. Place each fire extinguisher original shipping box, if available, or close fitting fiberboard container. Seal box with tape.
7. Locate six heaters, 110k BTUH. Wrap each heater in a minimum of two wraps of cushioning material. Secure cushioning material in place with tape. Place item into a bag made of barrier material. Seal bag with tape.
8. Place each bag into an original heater shipping box, if available, or a close fitting fiberboard container measuring approximately 20-inches x 16-inches x 37-inches. Seal box with tape.
9. Locate the following ASH Heater System Support Package items: (Note that quantities indicated are the original quantity shipped. Due to usage these may not, or only partially, be available for return shipment)

**Table 42. ASH Heater Support Package Items.**

Item	Quantity	NSN
Gauge, Pressure, Dial, 10 PSI	5	6685-01-399-0065
Switch, Pressure, Air	5	5930-01-397-7317
Transformer, Remote	5	60434-1 (90598)
Valve, Solenoid	5	4810-01-290-4925
Valve, Solenoid	5	4810-01-290-4925
Valve, Solenoid	5	4810-01-291-9533
Switch, Rotary	5	5930-01-399-3255
Remote Thermostat Assembly	2	60410-100 (90598)
Combustion Relay Assembly	5	5945-01-497-6064
Remote Control Box	1	60250 (90598)
Gauge, Rod-Cap, Liquid Level	3	6680-01-399-1607
Pump, Rotary, Fuel	1	4320-01-299-0460

10. Wrap each item in a minimum of two wraps of cushioning material. Secure cushioning material in place with tape.
11. Locate the following items in quantities listed below: (Note that quantities indicated are the original quantity shipped. Due to usage these may not, or only partially, be available for return shipment.)

**Table 43. Support Package Items.**

Item	Quantity	NSN
Bulb, Light	20	6240-00-939-7859
Circuit Breaker, 15a, Single Pole	5	5925-00-270-3998

**Table 43. Support Package Items - Continued.**

Item	Quantity	NSN
Filter, Fluid	5	2910-01-312-1406
Coupling, Fuel Pump	5	60634-1 (90598)
Electrode Assembly	20	60731-100 (90598)
Switch, Toggle	5	5930-00-683-1626
Circuit Breaker W/Mounting	5	5925-01-397-6052

12. Wrap each item in a minimum of two wraps of cushioning material. Secure cushioning material in place with tape.
13. Place each item into a bag made of barrier material and seal with tape. Place items inside fiberboard containers and close with tape. Mark each box identifying contents.
14. Locate one Adapter, Drum Fill, 2-Port. Wrap adapter in cushioning material and secure in place with tape. Place wrapped adapter inside manufacturer's original box, if available, or a close-fitting fiberboard container. Close box with tape.
15. Locate ten Debris Screens, Air Conditioning Duct. Place each item in a separate bag made of barrier material and seal with tape.
16. Locate six Cord, Extension, 20A, 50-foot Class L to Commercial. Wrap the connectors on each end of the cables in two layer of cushioning material and secure with tape. Wrap each connector end in barrier material and secure in place with tape. Neatly coil each assembly and secure with twine, or cable ties. Place four, each of the extension cords in a close-fitting fiberboard container and seal with tape.
17. Locate one Adaptor Kit, TRICON, Water Heater consisting of:

**Table 44. Adaptor Kit Components.**

Item	Quantity	NSN
Pipe, Duct, 7-In, 26 Gauge Galvanized	4	1766k15 (39428)
Angle Flange, 7 In, 26 Gauge Galvanized	1	1764k52 (39428)
Rain Cap, 7 Inch, 26 Gauge Galvanized	1	1766k75 (39428)

18. Nest pipe duct together. Wrap each part in cushioning material and secure in place with tape. Place components inside a close fitting fiberboard container and close with tape.

Packing procedures for TRICON Type 45A.

The following materials and items are required to pack TRICON 45A:

**Table 45. TRICON Type 45A Packing Materials.**

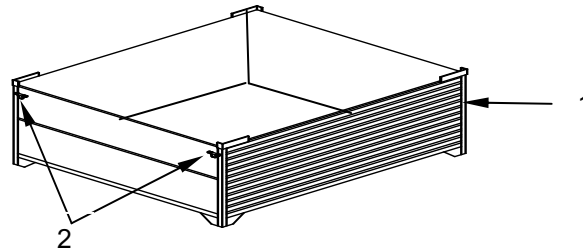
Item, NSN	Qty
Corrugated Fiberboard Stock, ASTM-D4727	As required
Barrier Material, Grease Proofed, Waterproofed, Flexible, Mil-PRF-121G, or J	As required
Cushioning Material, Flexible, Cellular, Plastic Film, PPP-C-795	As required
Boxes, Shipping, Fiberboard, PPP-B-636	As required
Special Purpose Web Tiedown, 3990-01-204-3009	2
Steel Strapping, ½-Inch, (ASTM D-3953)	As required
Cable Tie, Nylon 12-inch, NSN 5975-00-985-6630	As required

**Table 45. TRICON Type 45A Packing Materials.**

Item, NSN	Qty
Twine, Cotton, Wrapping, T-T-871	As required
Pad, energy dissipating, 3-in thick (honeycomb) 1670-00-753-3928	As required

Use the following procedures to pack bottom layer of TRICON Type 45A:

1. Locate TRICON with “MSCW TENT ACCESSORY SYSTEM SUPPORT PACKAGE KIT; CO. TYPE 45A... “ stenciled on the left door
2. Open doors and ensure interior of TRICON is clean and dry. Verify that the TRICON modification has been completed as part of the PREPARATION FOR MOVEMENT OF HOT WATER EQUIPMENT described in this WP. Inspect the container for any physical damage, and that all doors and latches operate properly.
3. Locate three small reusable bulk equipment containers (1). Work each barrel bolt mechanism (2) on the door of each reusable container so that it is easily opened and closed.



**NOTE**

Each reusable container is stenciled with identification on the front left hand side of the door panel and further identified as TRICON 44A, Container # \_\_ of 3.

4. Line the sides and floor of each container with a minimum of two layers of fiberboard. Cut the fiberboard so that it will bend with the door on the container when the door is opened.
5. Locate 16, each insulated TEMPER floors previously packed and place them into the reusable container #1 of 3.
6. Locate the following items:

**Table 46. Items to be Packed into Reusable Container #2 of 3.**

Item	Quantity
Endwall, TEMPER, TRICON	4
Endwall, TEMPER, Vehicle	2
Endwall, TEMPER, ISO, End opening	1
Fly, 16 TEMPER	2
Frame, Window Section, TEMPER	4
Partition, TEMPER	2
Intermediate, Section Liner TEMPER	4
Adapter, Drum Fill, 2-Port	1
Heater, 110k BTUH, Portable	4
Window Section, TEMPER Fabric	4

7. Place these items into the reusable Container #2 of 3, as shown.



8. Locate the following items:

**Table 47. Items to be packed into Reusable Container #3 of 3.**

Item	Quantity	NSN
Adaptor Kit, TRICON, Water Heater	1	9-1-0609 (81337)
Fire Extinguisher, ABC, 10 Pound	18	4210-00-889-2491
Heater, 110k BTUH, Portable	2	3e218d (25795)
Valve, Solenoid	5	4810-01-291-9533
Gauge, Pressure, Dial, 10 PSI	5	6685-01-399-0065
Switch, Pressure, Air	5	5930-01-397-7317
Transformer, Remote	5	60434-1 (90598)
Valve, Solenoid	5	4810-01-290-4925
Switch, Rotary	5	5930-01-399-3255
Remote Thermostat Assembly	2	60410-100 (90598)
Combustion Relay Assembly	5	5945-01-497-6064
Remote Control Box	1	60250 (90598)
Gauge, Rod-Cap, Liquid Level	3	6680-01-399-1607
Pump, Rotary, Fuel	1	4320-01-299-0460
Bulb, Light	20	6240-00-939-7859
Circuit Breaker, 15a, Single Pole	5	5925-00-270-3998
Filter, Fluid	5	2910-01-312-1406
Coupling, Fuel Pump	5	60634-1 (90598)
Electrode Assembly	20	60731-100 (90598)
Switch, Toggle	5	5930-00-683-1626
Circuit Breaker W/Mounting Hardware	5	5925-01-397-6052

9. Place these items into the reusable Container #3 of 3, as shown.
10. Locate three ½-inch plywood covers. Place the covers on the reusable containers with cleats facing up. Strap the covers down with three steel banding straps. If covers are no longer available, new covers must be prepared to specifications in drawing 9-1-0758 (81337). (Refer to WP 0003 00.) Cover shall be sized so that it fits into the four corner brackets of the container.
11. Locate two special purpose web tiedown. Attach the non-ratcheted end of the tie down to the corner tiedown loops, approximately two thirds of the distance up from the container floor. Temporarily secure the loose ends out of the way to allow loading of the packed reusable containers into the TRICON Container.
12. Using a forklift, stack the reusable containers as shown and place them into the TRICON shipping container. Crisscross the special purpose tiedown straps over the top reusable containers. Secure straps to the corner tiedown loops approximately two thirds of the distance up from the floor. Neatly fold the excess strapping and secured with cable ties.
13. Install honeycomb, cross boards, blocking and bracing as required to fill spaces and gaps between items. Fabricate insert(s) to fill voids between the packaged contents. These fillers and all dunnage shall be installed so as to prevent TRICON contents (and the dunnage itself) from falling out when the doors are opened.
14. Ensure that three TRICON connectors are located in the holder on the lower inside of the right hand TRICON door.
15. Close and secure TRICON doors.

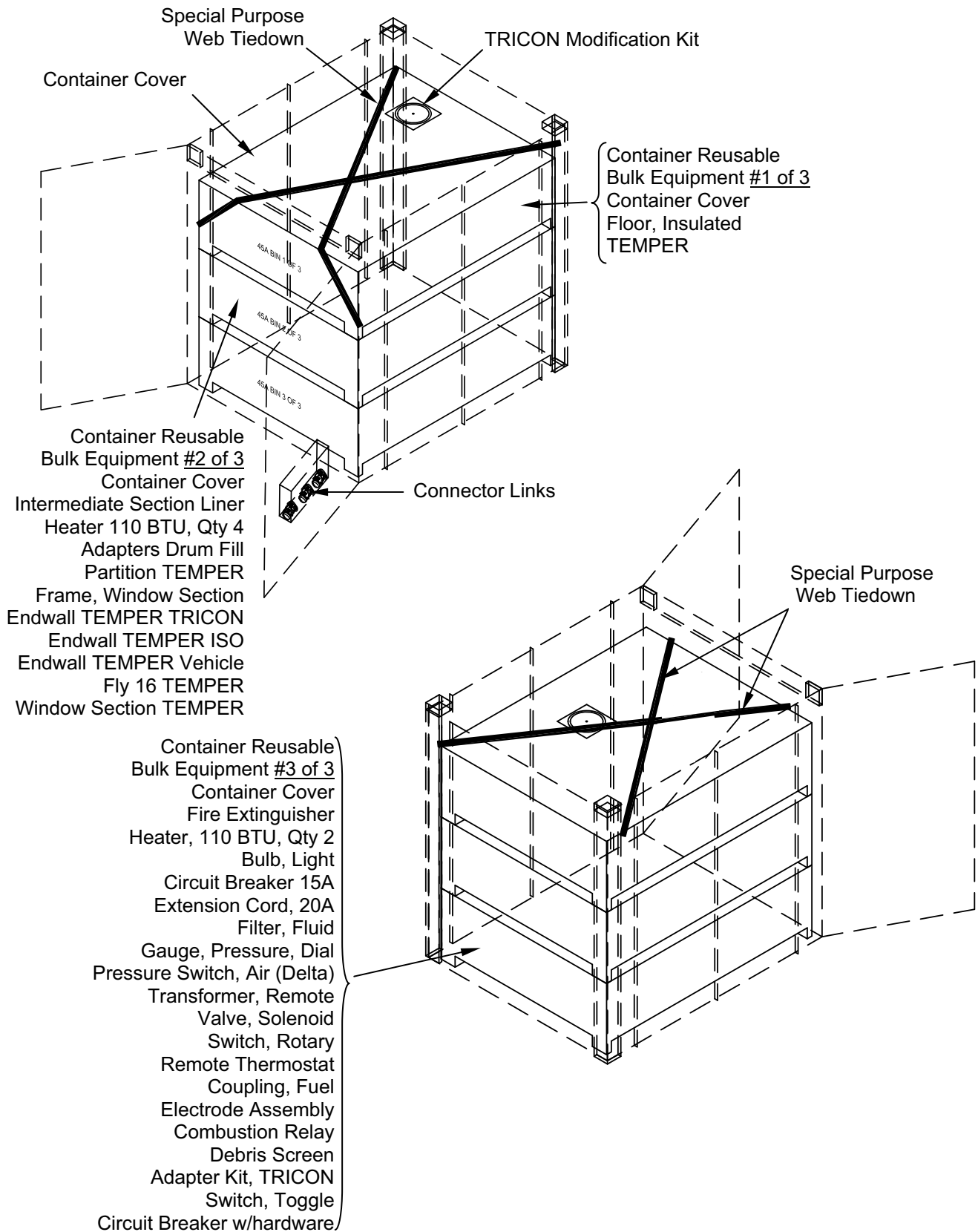


Figure 7. Field Packing MSCW Tent Accessory System Support Package Kit Type 45A.

END OF WORK PACKAGE

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**FORCE PROVIDER  
OPERATION UNDER UNUSUAL CONDITIONS**

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**GENERAL**

Deployment of a Force Provider module in prolonged temperatures below 32 °F requires not only the installation of the equipment supplied with the MSCW, but also the application of planning considerations and implementation of procedures that are necessary to sustain operations in these conditions. In locations where seasonal weather changes are to be expected, the planner must determine the optimum set-up that will require only a minimum of reconfiguration as the seasons change to accommodate operations. Thus, the overall camp configuration need not be changed to switch from standard to cold weather operations and vice versa. For example, both air conditioners and ASH heaters may be left in position (side by side) for connection/operation as needed (however, ASH heaters must be fueled during cold weather). Likewise, M-80 water heaters installed in TRICONS can remain in place. Heat traced water supply and wastewater collection hoses, however, should be disconnected and replaced with standard hoses. Power requirements for both standard and cold weather operations must be computed separately, since these requirements are substantially different. However, generator equipment not in use can be left in place. Potable water tank fill hose kits and wastewater drain hose kits must be disassembled in temperatures below 32 °F after each use.

The implication of operations below 32 °F stem primarily from freezing, snow accumulation, and the effects of ambient or induced thawing of unprepared ground as the temperature may rise occasionally to above 32 °F. Under optimum conditions, Force Provider deployment will be planned for and occur during clement conditions, allowing for the optimum preparation of the site. This should include grading for drainage, installation of gravel pads where equipment is to be located. The siting of subsystems requiring potable water supply and wastewater evacuation must consider minimizing exposure of water supply and evacuation lines to the elements. Subsystem sites must consider frequent snow plowing requirements.

**Operation in Conditions Below 32 °F**

The following paragraphs outline the MSCW equipment and employment procedures for each FP subsystem, to be employed as appropriate, during operation in temperatures below 32 °F.

**Transportation and Storage**

Modified TRICON (4) are used to house the M80 Series water heaters used with the laundry, shower, and food service subsystems.

**Billeting**

In the MSCW configuration, each TEMPER is heated using one ASH unit, fueled from a 55-Gallon drum with fuel adapter. Snow removal equipment such as snow rakes and shovels are provided to facilitate snow removal of, and around each TEMPER. Sand bags may be placed onto the TEMPER rain skirts to minimize snow and wind intrusion. The 500-gallon fuel drums and drum fuel adapter lines are marked using surveyor's ribbon. Surveyor ribbon may be used to mark the location of fuel and power lines to prevent damage during snow plowing operations.

**Laundry**

In the MSCW configuration, 75-foot long heat traced hoses are provided to supply the CBL with freshwater and evacuate wastewater. The M-80 water heater is installed into a modified TRICON. The laundry sorting TEMPER is heated using an ASH heater. The SEP/SES can be placed inside the TEMPER. Snow removal equipment (snow rakes and shovels) are provided to facilitate snow removal of, and around the TEMPER. Sand bags may be placed onto the TEMPER rain skirts to minimize snow and wind intrusion. Surveyor ribbon may be used to mark the location of utility lines to prevent damage during snow plowing operations.

## Latrine

The containerized latrines can be operated in temperatures below 32 °F provided that freshwater is delivered using a 75-foot heat traced hose. Where conditions permit, the CLS should be positioned over a 6-inch deep gravel bed to mitigate the effects of ground thaw. Adjust the interior temperature to prevent freezing of interior piping. The WWET/T, used to evacuate blackwater from the latrine subsystems are kept in 20-foot x 32-foot TEMPER, heated by an ASH. Modified entry walls are installed on the TEMPER to provide increased clearance required by the trailers. Snow removal equipment such as snow rakes and shovels are provided to facilitate snow removal of, and around the TEMPER. Surveyor ribbon may be used to mark the location of utility lines to prevent damage during snow plowing operations.

## Shower

Similar to the laundry, the showers use 75-foot long heat traced hoses to supply freshwater and evacuate the wastewater. The M-80 water heater, supplying hot water is installed into a modified TRICON. An 8-foot TEMPER section is used between the CSS and the modified TRICON to provide access to and protect the hoses and water inlet panel. An insulated TEMPER floor is placed over the ground of the shave stand TEMPER. The TEMPER is heated using an ASH heater. Snow removal equipment such as snow rakes and shovels are provided to facilitate snow removal of, and around the TEMPER. Sand bags may be placed onto the rain skirts of the TEMPER sections to minimize snow and wind intrusion. Surveyor ribbon may be used to mark the location of utility lines to prevent damage during snow plowing operations.

## Water Distribution

In the MSCW configuration, potable water is stored in four 20,000 Gallon Collapsible Fabric Tanks, each located inside a 20-foot x 64-foot TEMPER. Each TEMPER is heated with two ASH heaters. Chlorination equipment, water pumps and non-heat-trace hoses are located inside the water storage tents. Each potable water supply tank TEMPER is located within 75-foot of the serviced subsystems to facilitate distribution via 75-foot heat traced water hoses. Snow removal equipment such as snow rakes and shovels are provided to facilitate snow removal of, and around the TEMPER. Sand bags may be placed onto the rain skirts of the TEMPER sections to minimize snow and wind intrusion. Tank fill kits must be assembled/disassembled each time the tanks are re-filled. Surveyor ribbon may be used to mark the location of utility lines to prevent damage during snow plowing operations.

## Power Generation

Module operation in the MSCW configuration with commercial or prime power is similar to that under usual conditions. However, when the 60-kW tactical generators are used, the power requirement for each power group should be re-computed by the planner because operation in the MSCW configuration requires less power than in the standard configuration. It may be possible to eliminate some power clusters altogether and re-balance the power load of remaining clusters. Alternatively, each cluster may be operated with only two generators. Surveyor ribbon may be used to mark the location of utility lines to prevent damage during snow plowing operations.

## Fuel Storage and Distribution

Operation of an FP module in temperatures below 32 °F requires the use of arctic diesel. Conversion to this type of fuel is normally made by the operational theater command based on climatic conditions. However, arctic and regular diesel must be kept separate. Tanks and drums must not be refueled with arctic diesel until the regular diesel fuel is used up. During cold weather operations, 500-Gallon fuel drums used to fuel the ASH heaters must be refueled on a predetermined schedule. Vented, two-port fuel adapters are used for this purpose. During fueling operations a powered hammer drill is used to emplace the ground rod. Surveyor ribbon may be used to mark the location of utility lines to prevent damage during snow plowing operations.

**Wastewater Collection**

The wastewater collection subsystem in the MSCW configuration employs two 20,000 Gallon Collapsible Fabric Tanks placed inside a 20-foot x 64-foot TEMPER, heated with two ASH heaters. One of these tanks is located between and collects the wastewater of the laundry and one of the shower facilities. The second tank can be located between and collect the wastewater of the food service and a second shower facility. Wastewater is pumped from the source directly, or through a SEP/SES, located inside the serviced facility tent, and then evacuated using heat traced 2½-inch collection hoses to the 20,000 Gallon storage tanks. Tanks are emptied using wastewater hauling equipment. Their contents may also be pumped directly into a municipal wastewater system or field expedient disposal site using two commercial diesel-powered trash pumps. Surveyor ribbon may be used to mark the location of utility lines to prevent damage during snow plowing operations.

**Food Service**

The food service subsystem MSCW configuration is essentially the same as the standard setup, however, some of the water distribution and wastewater collection equipment is relocated inside the TEMPER to protect against freezing. Also, the MSCW provides an additional 8-foot TEMPER section which is added to the end of the sanitation center. A TRICON end wall is then installed to facilitate connection of a modified TRICON containing an M-80 Water Heater. ASH Heaters are installed in each of the subsystem tents.

Snow removal equipment such as snow rakes and shovels are provided to facilitate snow removal of, and around the TEMPER. Water will be distributed to the food service subsystem by the water distribution subsystem through a heat traced hose to the water supply connection point which will be located just inside the sanitation center TEMPER. Wastewater is collected and passed through the grease trap before entering the wastewater collection subsystem through a dedicated SEP/SES and a heat traced hose. Utility lines are marked using surveyor's ribbon.

**Floodlight**

Floodlights may be employed as described in WP 0035 00. Surveyor ribbon may be used to mark the location of power lines to prevent damage during snow plowing operations.

**Operation in Extreme Heat (Moist and Dry) Conditions**

ECU operation in extreme heat.

1. Keep conditioned space closed off as much as possible, especially doors and windows.
2. Limit the amount of hot, outside air introduced through the fresh air damper to that absolutely needed for ventilation.

Consult appropriate technical publications listed in WP 0081 00 for specific measures to be taken to operate FP equipment covered in separate technical manuals in extreme heat.

**Operation in Rainy and/or Humid Conditions**

ECU operation in unusually wet conditions.

1. Frequently inspect and clean the condensation trap and drain lines to insure proper drainage.
2. More frequent inspect of the interior of the evaporator section and air filter.

Consult appropriate technical publications listed in WP 0081 00 for specific measures to be taken to operate FP equipment covered in separate technical manuals in wet and humid conditions.

**Operation in Extreme Dry and Dusty Conditions**

ECU operation in dusty or sandy conditions.

1. Frequently clean the air filter, grilles, and all other areas of dust or sand accumulation. In extreme conditions, daily cleaning may be necessary.
2. Limit the amount of dust and sandy outside air introduced through the fresh air damper to that absolutely needed for ventilation.

Consult appropriate technical publications listed in WP 0081 00 for specific measures to be taken to operate FP equipment covered in separate technical manuals in extreme dry and dusty conditions.

**Operation in Salt Air or Sea Spray**

ECU operation in salt air or sea spray.

1. Frequently clean the air filter, grilles, and all other areas of salt accumulation. In extreme conditions, daily cleaning may be necessary.
2. Rinse or wipe down all exposed surfaces with fresh water to remove salt.

Consult appropriate technical publications listed in WP 0081 00 for specific measures to be taken to operate FP equipment covered in separate technical manuals in or near salt air or sea spray.

**Operation at High Altitude**

Consult appropriate technical publications listed in WP 0081 00 for specific measures to be taken to operate FP equipment covered in separate technical manuals at high altitude.

**CHAPTER 3**  
**TROUBLESHOOTING PROCEDURES**  
**FOR**  
**FORCE PROVIDER**





**FORCE PROVIDER  
TROUBLESHOOTING INDEX**

**TROUBLESHOOTING PROCEDURES**

The Malfunction Symptom Index lists common malfunctions that may occur during inspection and operation of Force Provider equipment.

Find the malfunction the equipment is having in the index and go to the troubleshooting procedure provided in the following pages, or technical manual referenced.

These charts cannot list all malfunctions that may occur, all tests or all inspections needed to find the fault, nor all actions required to correct the fault. If your malfunction is not listed in, or is not correctable through, this troubleshooting index, notify your supervisor or unit maintenance.

DO NOT START THE TASK UNTIL:

- You understand the task.
- You understand what you are to do.
- You understand what is needed to do the work.
- You have the things you need.

**MALFUNCTION SYMPTOM INDEX**



**Table 1. Operator Malfunction Symptom Index.**

<b>Subsystem</b>	<b>Component Malfunction or Symptom</b>	<b>Refer to TM Indicated or Procedure No. in WP 0057 00</b>
Transportation and Storage Container	TRICON Door / Lock Mechanism inoperative	TM 55-8145-203-13&P
	ISO Container Door / Lock Mechanism inoperative	TM 10-5411-202-14
Billeting	No Power to Subsystem	1
	ECU inoperative, or inadequate cooling	2
	TEMPER Interior lights inoperative	TM 10-8340-224-13
	TEMPER Convenience outlets inoperative	TM 10-8340-224-13
	TEMPER Power distribution box inoperative	TM 10-8340-224-13
	PDISE M100 malfunction	TM 9-6150-226-13
Laundry	No Power to Subsystem	1
	TEMPER (Refer to malfunctions under Billeting)	TM 10-8340-224-13
	SEP/Wastewater Evacuation malfunction	TM 10-4630-206-12&P
	Tank, Water, Storage, Collapsible, 3,000-Gallon	TM 10-5430-237-12&P
	ECU inoperative, or inadequate	2
	PDISE M100 malfunction	TM 9-6150-226-13
	Containerized Batch Laundry malfunction	TM 10-3510-225-13&P
Latrine	No Power to Subsystem	1
	WWET/T malfunction	TM 10-4630-207-13&P
	PDISE M100 malfunction	TM 9-6150-226-13
	Containerized Latrine System malfunction	TM 10-4510-209-13&P

**Table 1. Operator Malfunction Symptom Index– Continued.**

<b>Subsystem</b>	<b>Component Malfunction or Symptom</b>	<b>Refer to TM Indicated or Procedure No. in WP 0057 00</b>
Shower	No Power to Subsystem	1
	TEMPER (Refer to malfunctions under Billeting)	TM 10-8340-224-13
	SEP/Wastewater Evacuation malfunction	TM 10-4530-206-12&P
	PDISE M100 malfunction	TM 9-6150-226-13
	ECU inoperative, or inadequate	2
	Containerized Shower System malfunction	TM 10-4510-208-13&P
Water Distribution Not finished	20,000-Gal Potable Water Tank (Type I) leaking	3
	Water Distribution System Leaking	4
	400-Gal Water Tank Trailer inoperative	TM 9-2330-267-14&P
Fuel Storage and Distribution	No Power to Subsystem	1
	No Power at FPFS	5
	Tank, Fuel, 10,000-Gallon malfunction	TM 10-5430-242-12&P
	No Fuel available at the dispensing point	6
	PDISE M40 malfunction	TM 9-6150-226-13
Wastewater Collection	Wastewater Collection System leaking	7
	20,000-Gal Potable Water Tank leaking (Type II)	3
	Wastewater not draining	8
	TEMPER (Refer to malfunctions under Billeting)	TM 10-8340-224-13
Food Service	No Power to Subsystem	1
	No water in food service subsystem	9
	Wastewater not draining in food service subsystem	10
	M80 Water Heater	TM 10-4520-259-13&P
	TEMPER (Refer to malfunctions under Billeting)	TM 10-8340-224-13
Administration	No Power to Subsystem	1
	TEMPER ECU inoperative, or inadequate	2
	TEMPER Interior lights inoperative	TM 10-8340-224-13
	TEMPER Convenience outlets inoperative	TM 10-8340-224-13
	TEMPER Power distribution box inoperative	TM 10-8340-224-13
MWR	No Power to Subsystem	1
	TEMPER ECU inoperative, or inadequate	2
	TEMPER Interior lights inoperative	TM 10-8340-224-13
	TEMPER Convenience outlets inoperative	TM 10-8340-224-13
	TEMPER Power distribution box inoperative	TM 10-8340-224-13
Floodlight	1,000-W or 2,000-W Tripod Floodlight inoperative	11

Table 1. Operator Malfunction Symptom Index- Continued.

Subsystem	Malfunction or Symptom	Refer to TM Indicated or Procedure No. in WP 0057 00
Modification System Power Generation	 <p style="text-align: center;"><b>WARNING</b></p> <p>Only qualified civilian or Force Provider Power Generation personnel are permitted to troubleshoot power generation equipment. Serious injury and death can result from electrical shock.</p>	
	No Power at PDISE	12
	500-Gallon Liquid Fuel Drum malfunction	TM-10-8110-201-14&P
	60kw Tactical Quiet Generator malfunction	TM 9-6115-645-24
Modification System Prime Power	 <p style="text-align: center;"><b>WARNING</b></p> <p>When Army Prime Power is used, troubleshooting of power generation and distribution equipment is to be performed by Army Prime Power personnel.</p>	
	No Power at PDISE	13
Modification System Cold Weather	TEMPER (Refer to malfunctions under Billeting)	TM 10-8340-224-13
	No or inadequate heating in TEMPER Tents	14
	ASH Heater inoperative	TM 9-4520-258-14

**Table 2. Unit Maintenance Malfunction Symptom Index.**

<b>Subsystem</b>	<b>Malfunction or Symptom</b>	<b>Refer to Procedure No. in WP 0058 00</b>
Billeting	No power in TEMPER	1
	ECU inoperative, or inadequate	2
Laundry	No power in TEMPER	1
	ECU inoperative, or inadequate	2
Shower	No power in TEMPER	1
	ECU inoperative, or inadequate	2
Water Distribution	20,000-Gallon Potable Water Tank leaking (Type I)	3
Fuel Distribution	No Fuel available at the dispensing point	4
Wastewater Collection	Subsystem Branch Line not draining	5
	20,000-Gallon Graywater Tank leaking (Type II)	3
	No suction at trash pump	6
Food Service	ECU inoperative, or inadequate	2
Administration	No power in TEMPER	1
	ECU inoperative, or inadequate	2
MWR	No power in TEMPER	1
	ECU inoperative, or inadequate	2
Floodlight	Floodlight inoperative	7
Modification System Prime Power	Transformer 150kva, 208/120V WYE inoperative	8
Modification System Cold Weather	Heat Traced Hose malfunction	9

**END OF WORK PACKAGE**

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**FORCE PROVIDER  
TROUBLESHOOTING PROCEDURES**

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**PROCEDURE 1****Symptom**

No Power to Subsystem

**Malfunction**

1. PDISE not properly connected.

**Corrective Action**

Assemble and connect 60A/100-foot power cables between the PDISE and the user facility as described in appropriate subsystem WP and TM 9-6150-226-13.

2. No power at PDISE.

**Corrective Action**

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**WARNING**

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It is the responsibility of individual subsystem personnel to lay out and assemble the 60A power cables to the PDISE for connection. Personnel of the Facilities Support Section are responsible for connecting the 100A service cable to the PDISE. Only qualified personnel must connect service cables to the PDISE and pigtails to the power source. Failure to observe this warning may result in severe injury or death by electrocution.

Verify with facilities support section personnel that 100A service cable(s) and pigtail(s) are connected to power source and power is being supplied to the PDISE.

3. PDISE main circuit breaker tripped.

**Corrective Action**

Verify with facilities support personnel that the main circuit breaker in PDISE is ON.

4. PDISE individual circuit breaker tripped.

**Corrective Action**

Verify with facilities support personnel that the individual breakers of the circuits to which 60A power cables are connected are ON.

Notify unit maintenance if procedures in steps 1, through 4, above do not establish or restore power.

**PROCEDURE 2****Symptom**

ECU inoperative or inadequate cooling

**Malfunction**

1. ECU power cable not connected.

**Corrective Action**

Connect ECU power cable to 208V/3-phase power source.  
Press overload reset in the control panel.

2. ECU controls not set correctly.

**Corrective Action**

Set mode selector to automatic and temperature control to desired temperature (must be lower than ambient to obtain cooling).

3. Tripped PDISE or ECU circuit breaker.

**Corrective Action**

Reset a tripped ECU circuit breaker on the control panel. Have power generation personnel reset a tripped PDISE circuit breaker.

**WARNING**

Turn OFF ECU before performing the remaining corrective actions to prevent injuries due to moving parts.

4. Air filter obstructed.

**Corrective Action**

Clean or replace the air filter as necessary. Replace a damaged filter as described in WP 0059 00.

5. ECU leaking refrigerant.

**Corrective Action**

Check sight glass for continuous bubbles when operating on automatic setting. If this is observed, notify unit maintenance.

6. Evaporator coil obstructed or damaged.

**Corrective Action**

Clean the evaporator coil as necessary. Tighten a loose belt. Notify unit maintenance if evaporator is damaged.

**PROCEDURE 3****Symptom**

20,000-Gallon Collapsible Fabric Tank Type I and Type II, leaking

**WARNING**

Troubleshooting of the Type I and Type II tanks are similar; however, to prevent contamination of the potable water supply never interchange any parts between the potable water (Type I) and the wastewater (Type II) tanks. When handling wastewater components, wear gloves to prevent illness due to contamination.

**Malfunction**

1. Tank fabric leaks.

**Corrective Action**

Perform emergency procedures using sealing clamps as described in WP 0061 00.

2. Drain hose assembly leaking.

**Corrective Action**

Inspect hose assembly and fittings for presence of gasket. This must be properly seated in groove and serviceable. Replace a missing or unserviceable gasket. If leak continues, notify unit maintenance.

3. Vent pipe assembly leaks.

**Corrective Action**

Inspect and notify unit maintenance if relief cap valve, vent pipe, or flange adapter is damaged and needs replacing.

4. Filler – Discharge assembly leaks.

**Corrective Action**

Inspect assembly and notify unit maintenance if components are damaged or the cause of the leak cannot be determined.

5. Drain fitting assembly leaks.

**Corrective Action**

Inspect assembly and notify unit maintenance if components are damaged or the cause of the leak cannot be determined.

**PROCEDURE 4****Symptom**

Water Distribution System leaking

**Malfunction**

1. Water leaking from supply hoses.

**Corrective Action**

Inspect and replace a damaged or leaking hose as necessary.

2. Water leaking from QDISC coupling.

**Corrective Action**

Isolate water circuit in which leak is occurring by shutting off nearest valve (notify subsystem(s) affected). Disconnect QDISC coupling(s) and inspect for damage. Check for presence and condition of gasket in female coupling. Replace if necessary as described in WP 0061 00.

3. Water leaking from water pump or hypochlorinator.

**Corrective Action**

Shut down pump or hypochlorinator (notify subsystem(s) affected) and check hose connections. Replace gasket in female coupling if necessary. If pump or hypochlorinator appear to leak internally, shut equipment down and notify unit maintenance.

4. Water leaking from 20,000 Gallon Collapsible Fabric Tank.

**Corrective Action**

Perform troubleshooting procedure #3.



**PROCEDURE 5****Symptom**

No power at FPFS

**Malfunction**

1. FPFS pump assembly not connected to power source (PDISE).

**Corrective Action**

Connect the power cable of the FPFS to the PDISE M40 as described in WP 0045 00.

2. Power source not supplying 40-A/3-phase power.

**Corrective Action**

Verify with facilities support section personnel that 40-A/3-Phase power is being supplied to the PDISE.

3. Main circuit breaker in PDISE tripped.

**Corrective Action**

Have power generation personnel check and verify that the main and component circuit breakers on PDISE are ON.

4. FPFS controls set improperly.

**Corrective Action**

Set the control on the FPFS fuel pump to ON.

5. FPFS power cable damaged.

**Corrective Action****WARNING**

Disconnect power cables from the PDISE before inspecting and handling the cables to prevent serious injuries or death by electrocution.

Inspect disconnected cables for damage and replace as necessary.

**PROCEDURE 6****Symptom**

No fuel available at the FPFS dispensing point

**Malfunction**

1. Fuel pump inoperative.

**Corrective Action**

Perform procedure 5 (detailed on previous page).

2. Insufficient fuel in storage tanks.

**Corrective Action**

Turn OFF fuel pump and schedule fuel delivery to fill both 10,000- gallon tanks.

3. Fuel supply line valves not open.

**Corrective Action**

Check fuel supply line valves and open valves as described in WP 0029 00.

4. Fuel hoses kinked.

**Corrective Action**

Inspect and straighten out fuel hoses.

Notify unit maintenance if problem cannot be corrected.

**PROCEDURE 7****Symptom**

Wastewater Collection System leaking

**Malfunction**

1. Wastewater mainline leaking.

**Corrective Action**

Inspect wastewater mainline and determine location of leak. Isolate problem area by closing the nearest gate valve (notify affected subsystem(s)). Replace a damaged gasket as described in WP 0061 00, or the coupling housing. Rejoin the pipes as described in WP 0030 00. Replace a damaged pipe in the same manner.

2. Wastewater branch line leaking.

**Corrective Action**

Isolate branch line in which leak is occurring by closing the nearest gate valve (notify affected subsystem(s)). Disconnect QDISC coupling and inspect for damage. Check for presence of gasket in female coupling. Replace as necessary. Inspect and replace wastewater hose in the same manner, as necessary.

3. Wastewater leaking from SEP.

**Corrective Action**

Perform troubleshooting procedures on the SEP as described in TM 10-4630-206-12&P.

4. Wastewater leaking from 20,000 Gallon Collapsible Fabric Tank.

**Corrective Action**

Check drain gate valve and close it completely. Replace a leaking drain hose assembly, if necessary. Use emergency procedures described in WP 0061 00 to stop a tank fabric leak.

**PROCEDURE 8****Symptom**

Wastewater not draining

**WARNING**

When handling wastewater components, wear gloves to prevent illness due to contamination.

**Malfunction**

1. Wastewater branch line not draining.

**Corrective Action**

Wastewater drainage failure in only one subsystem indicates a closed valve, or blocked branch line. Ensure valve (s) are open. Blockage can involve the wastewater hose, or the SEP. Remove and replace the hose between the serviced subsystem and the SEP. Attempt to operate the system. If necessary, remove and replace the hose between the SEP and the wastewater main line. Attempt to operate the system. If necessary, perform troubleshooting procedures on the SEP as described in TM 10-4630-206-12&P.

2. Wastewater not draining from the SEP.

**Corrective Action**

Perform troubleshooting procedures on the SEP as described in TM 10-4630-206-12&P.

3. Wastewater is not draining from entire system.

**Corrective Action**

Wastewater drainage failure in all serviced subsystems indicates a blocked main line or closed gate valve. Verify that all gate valves in the main line are open. If this does not correct the problem, shut the system down (notify serviced subsystems) remove mainline pipes until the blocked portion is determined. Clear or replace the blocked pipe.

3. Trash Pump failure.

**Corrective Action**

If trash pump runs but does not produce suction, re-prime the pump, ensuring that the entire pump case is full of water.

If pump appears to be clogged, clear pump housing as described in WP 0068 00.

**PROCEDURE 9****Symptom**

No potable water available in food service subsystem.

**Malfunction**

1. Hot and cold water supply inoperative.

**Corrective Action**

Verify with potable water distribution personnel that water is being supplied to the potable water inlet T of the food service subsystem. Ensure ball valves on potable water supply manifold are OPEN. Verify that hot and cold water hoses are correctly connected between the manifold and the field sinks.

**WARNING**

Use care when handling hot water supply hoses and metal parts of the hot water supply system. These parts may be very hot. To prevent injuries, let parts cool down, or wear gloves.

2. No hot water available.

**Corrective Action**

Verify that water hoses between the potable water inlet T and the M-80 water heater and between the M-80 water heater and the potable water manifold are correctly connected. Check for leaks in hoses and QDISC couplings. Troubleshoot M-80 water heater as described in TM 10-4520-259-13&P.

3. No cold water available.

**Corrective Action**

Verify that water hoses between the potable water inlet T and the manifold are correctly connected. Check for leaks in hoses and QDISC couplings.

4. Water hoses kinked or twisted.

**Corrective Action**

Inspect and untangle water hoses. Ensure they are not subject to vehicular traffic.

**PROCEDURE 10****Symptom**

Wastewater not draining in food service subsystem

**Malfunction****WARNING**

Keep wastewater components away from food storage and preparation areas. Wear gloves when handling these components to prevent contamination resulting in sickness and death.

1. Wastewater not draining from sinks

**Corrective Action**

Wastewater drainage failure in only one sink line indicates a blocked line. Check the hose for leaks or kinks. Remove and replace the hose between the sink(s) and the crossover. Attempt to operate the system. If necessary, remove and replace the crossover.

2. Wastewater not draining into or from the grease trap

**Corrective Action**

Wastewater drainage failure into or out of the grease trap indicates either a blocked hose, or a malfunctioning trap. Perform step 1 above. Check the hose(s) between the crossover and the grease trap for leaks or kinks. Remove and replace the hose(s). Check the grease trap for proper functioning. Clean out if necessary.

3. Wastewater not draining from subsystem

**Corrective Action**

Wastewater drainage failure in the entire subsystem indicates a blocked branch line. This can involve the wastewater hoses, or the SEP. Remove and replace the hose(s) between the grease trap and the SEP. Attempt to operate the system. If necessary, remove and replace the hose between the SEP and the wastewater main line. Attempt to operate the system. If necessary, perform trouble-shooting procedures on the SEP as described in TM 10-4630-206-12&P

**PROCEDURE 11****Symptom**

Floodlights inoperative.

**Malfunction**

1. Power cord not connected to power source.

**Corrective Action**

Verify that power cord is firmly connected to a 120V, 60 Hz power source.

2. No power at source.

**Corrective Action**

Verify with facilities support section personnel that power is being supplied at source.

3. Lamps burned out or not installed correctly.

**Corrective Action****WARNING**

Disconnect power cable and let lamps cool down, if applicable, before troubleshooting the floodlights. This will prevent injuries due to electric shock and/or burns caused by touching hot lamps.

**CAUTION**

To prevent damage to the quartz halogen lamps, do not touch them with bare hands. Wear cotton gloves furnished to replace lamps.

Disconnect floodlight power cord from power source. Check lamp for proper seating and good contact with sockets. Re-install lamps correctly into sockets. Refer to WP 0035 00 for proper installation method. Replace burned out lamps.

**PROCEDURE 12****Symptom**

No power at PDISE (MSPG)

**Malfunction**

1. Tactical Quiet Generator (TQG) not operating properly.

**Corrective Action**

Troubleshoot TQG as described in TM 9-6115-645-10.

2. Insufficient fuel available in 50-gallon storage drum.

**Corrective Action**

Coordinate fuel delivery with bulk fuel storage and distribution personnel. Set up refueling schedule to maintain operation.

3. Switchboxes improperly connected.

**Corrective Action**

Connect load pigtails to load output terminal board as described in WP 0036 00.

4. PDISE not correctly connected.

**Corrective Action**

Connect 100-A pigtail and 50-foot cable(s) between the switch boxes and the PDISE as described in WP 0036 00.

5. Main circuit breaker in PDISE tripped.

**Corrective Action**

Set main circuit breaker in PDISE to ON.



**PROCEDURE 13****Symptom**

No power at PDISE (MSPP).

**Malfunction**

1. Power plant(s) are not providing power.

**Corrective Action**

Verify that power plants are operating and Centralized Control Van is powering the conduit to the transformer(s).

**WARNING**

High voltage is present in this system. Only qualified prime power personnel with MOS 51R, 52C, 52D, 52G, or qualified civilian personnel are authorized to perform the following procedures. Proper lockout/tag-out procedures must be adhered to in accordance with applicable OSHA Regulations, Army Regulations and prime power standard operating procedures. Death or severe injury may result from electrocution.

2. No power at transformer

**Corrective Action**

Verify that conduit is properly connected to the transformer. Refer to WP 0037 00 and prime power unit SOP.

3. All PDISE circuits are dead

**Corrective Action**

Verify that power cable is properly connected to the input connector on the PDISE and the PDISE main circuit breaker is switched ON. Refer to WP 0037 00.

4. Some PDISE circuits are dead

**Corrective Action**

Verify that PDISE individual circuit breakers are switched ON.

5. No power at equipment

**Corrective Action**

Verify that equipment operating switch on equipment is ON. Verify that equipment power cable(s) are correctly connected to proper receptacle on the PDISE.

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**PROCEDURE 14****Symptom**

No or inadequate heating in TEMPER tents.

**Malfunction**

1. ASH heater not operating correctly.

**Corrective Action**

Troubleshoot ASH heater in accordance with TM 9-4520-258-14.

2. Thermostat set incorrectly.

**Corrective Action**

Adjust ASH heater thermostat to the desired temperature as described in TM 9-4520-258-14.

3. Heater ducts disconnected or obstructed.

**Corrective Action**

Connect the ASH heater supply and return ducts to the temper as described in WP 0038 00. Ensure ducts are free of debris and are not obstructed.

4. TEMPER plenum outlets closed.

**Corrective Action**

Operate TEMPER plenum as described in TM 10-8340-224-13.

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**FORCE PROVIDER  
UNIT TROUBLESHOOTING PROCEDURES**

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**UNIT TROUBLESHOOTING PROCEDURES**

The Malfunction Symptom Index in WP 0056 00 lists common malfunctions that may occur during inspection and operation of Force Provider equipment.

Find the malfunction the equipment is having in the index and go to the troubleshooting procedure provided in the following pages, or technical manual referenced.

These charts cannot list all malfunctions that may occur, all tests or all inspections needed to find the fault, nor all actions required to correct the fault. If your malfunction is not listed in, or is not correctable through, this troubleshooting index, notify your supervisor or unit maintenance.

**DO NOT START THE TASK UNTIL:**

- You understand the task.
- You understand what you are to do.
- You understand what is needed to do the work.
- You have the things you need.

**PROCEDURE 1, NO POWER IN TEMPER****Symptom**

TEMPER utilities inoperative

**Malfunction**

1. PDISE malfunction

**Corrective Action**

Perform procedure #1 of WP 0057 00. Troubleshoot and repair PDISE as described in TM 9-6150-226-13.

**WARNING**

Disconnect power from the TEMPER electrical distribution box before proceeding with the following procedures. Failure to observe this warning may result in severe injury or death by electrocution.

2. ECU or ASH inoperative

**Corrective Action**

Ensure ECU or ASH power cable is properly connected to the J2 connector on the TEMPER electrical distribution box. Refer to WP 0024 00 or WP 0038 00, respectively. Replace a faulty receptacle connector in accordance with TM 10-8340-224-13.

2. TEMPER lights inoperative.

**Corrective Action**

Ensure light sets are properly connected to the electrical distribution box. Refer to WP 0024 00. Ensure light (toggle circuit breaker) switches on electrical distribution box is ON. Replace a faulty receptacle connector or toggle circuit breaker in accordance with TM 10-8340-224-13. Check lights for damage and replace as necessary.

3. No Power at convenience outlets.

**Corrective Action**

Ensure convenience outlets are properly connected to the electrical distribution box. Refer to WP 0024 00. Ensure push-pull circuit breakers on electrical distribution box are pushed IN. Replace a faulty receptacle connector or toggle circuit breaker in accordance with TM 10-8340-224-13. Check lights for damage and replace as necessary.

**PROCEDURE 2, ECU INOPERATIVE OR INADEQUATE****Symptom**

ECU inoperative or inadequate

**Malfunction**

1. Power cable not connected to J2 connector on TEMPER electrical distribution box.

**Corrective Action**

Connect ECU power cable to J2 connector on TEMPER electrical distribution box as described in WP 0024 00.

2. Cables on internal control board loose or shorted.

**Corrective Action**

Inspect and test cables and harnesses on internal control board as described in WP 0074 00 and replace as described.

3. Evaporator belt loose or fan motor/blower damaged.

**Corrective Action**

Inspect and tighten evaporator belt and fan motor blower as described in WP 0072 00.

4. Condenser fan impeller loose on motor drive shaft.

**Corrective Action**

Tighten impeller.

5. Condenser or evaporator coils loose or damaged.

**Corrective Action**

Inspect and repair coils as described in WP 0073 00.

6. Thermostat expansion valve loose or damaged.

**Corrective Action**

Inspect and repair thermostat expansion valve as described in WP 0073 00.

7. Compressor damaged or inoperative.

**Corrective Action**

Inspect and repair the compressor as described in WP 0073 00.

8. Liquid quench valve loose or damaged.

**Corrective Action**

Inspect and repair liquid quench valve as described in WP 0073 00.

**PROCEDURE 3, 20,000-GALLON COLLAPSIBLE FABRIC TANK LEAKING****Symptom**

20,000 Gallon Collapsible Fabric Tank leaking

**WARNING**

Force Provider utilizes similar tanks for potable water (Tank type I) and wastewater (Tank type II). To prevent contamination of drinking water supplies, install only new parts onto a Type I tank. Installing used or substandard parts can cause death or severe illness to individuals who ingest or contact contaminated water.

**Malfunction**

1. Drain Assembly leaking.

**Corrective Action**

Replace a leaking hose assembly. If a closed drain valve leaks, drain tank and replace valve. Refer to WP 0064 00.

2. Vent Pipe Assembly leaks.

**Corrective Action**

Replace the relief cap valve, if necessary. Replace the vent pipe and cracked or otherwise damaged flange adapter. Replace missing and re-torque cap screws to 30 inch/lbs. Refer to WP 0064 00.

3. Filler – Discharge Assembly leaks.

**Corrective Action**

Replace missing or re-torque cap screws to 30 inch/lbs. If leak continues disassemble filler-discharge assembly and replace damaged or worn out parts as described in WP 0064 00.

4. Drain Fitting Assembly leaks.

**Corrective Action**

Replace missing or re-torque cap screws to 30 inch/lbs. If leak continues disassemble drain fitting assembly and replace damaged or worn out parts as described in WP 0064 00.

**PROCEDURE 4, NO FUEL AT DISPENSING POINT****Symptom**

No power

**Malfunction**

1. No power to FPFS Assembly.

**Corrective Action**

Perform procedure #6 of WP 0057 00.

2. Pump switch damaged or inoperative.

**Corrective Action**

Check pump switch for damage and replace, if necessary, as described in WP 0066 00.

3. Fuel Pump damaged or inoperative.

**Corrective Action**

Check pump switch for damage and replace, if necessary, as described in WP 0066 00.

4. Fuel filters clogged or damaged.

**WARNING**

Some fuel spillage may occur when filter is drained. Be prepared to collect fuel with a pail and rags. Failure to observe this warning may result in environmental and equipment contamination, as well as potential fire hazard.

**Corrective Action**

Check filter housing for damage and filters for clogging. Replace filters and housing as described in WP 0066 00.

**PROCEDURE 5, SUBSYSTEM WASTEWATER BRANCH LINE NOT DRAINING****Symptom**

Wastewater not draining

**Malfunction**

1. 2½-inch branch line ball valve closed or only partially open.

**Corrective Action**

Open 2½-inch branch line ball valve completely (valve handle aligned with valve body).

2. 2½-inch branch line suction hose connected to wrong SEP port.

**NOTE**

Some model SEP tank bodies have similar ports on all four sides. However, only the discharge port has hose connected to internal pump. If in doubt, open the SEP cover to identify discharge port.

**Corrective Action**

Verify that 2½-inch branch line suction hose is connected to the correct SEP port.

3. SEP inoperative.

**Corrective Action**

Troubleshoot SEP in accordance with TM 10-4630-206-12&P.

4. 2½-inch branch line suction hose clogged.

**Corrective Action****WARNING**

Wear gloves and use caution when disassembling waste water hoses. Be prepared to dispose of any spillage that may occur when separating branch line components.

Turn off SEP. Disassemble branch line as described in WP 0046 00. Replace unserviceable part of branch line. Refer to WP 0030 00.

5. Subsystem drain line clogged.

**Corrective Action**

Disassemble and replace facility drain line components to SEP of shower and laundry subsystems as described in TM 10-4510-208-13&P and TM 10-3510-225-13&P, respectively. Disassemble waste water drain line including grease trap of Food Service Subsystem as described in WP 0047 00.



**PROCEDURE 6, SUBSYSTEM WASTEWATER NO SUCTION AT TRASH PUMP****Symptom**

Wastewater mainline not draining

**Malfunction**

1. Trash pump engine won't start

**Corrective Action**

Perform PMCS as described in Table 8 of WP 0059 00.

2. Trash pump operates but does not produce suction.

**NOTE**

Ensure the pump is located at approximately the same height as the liquid to be evacuated. It will give best performance on suction lifts less than 15 feet and is not guaranteed to handle any lift over 25 feet at sea level.

**Corrective Action**

- a. Perform troubleshooting procedure 8 of WP 0057 00.
  - b. Examine suction hose or pipe connections. Air leaks in the suction line will prevent proper priming and operation of pump.
3. No air leaks in main line, but no suction at pump.

**Corrective Action****WARNING**

Wear gloves and use caution when disassembling waste water hoses. Be prepared to dispose of any spillage that may occur when separating branch line components.

Disconnect suction line and examine strainer. Clean or replace the strainer as necessary.

4. Strainer serviceable but no suction at pump.

**Corrective Action**

Re-prime pump and follow starting procedures in WP 0030 00.

**PROCEDURE 7, FLOODLIGHT INOPERATIVE****Symptom**

Floodlight inoperative

**Malfunction**

1. Lamps will not operate.

**Corrective Action****WARNING**

Disconnect power cable and let lamps cool down, if applicable, before troubleshooting the floodlights. This will prevent injuries due to electric shock and/or burns caused by touching hot lamps.

**CAUTION**

To prevent damage to the quartz halogen lamps, do not touch them with bare hands. Wear cotton gloves furnished to replace lamps.

Disconnect floodlight power cord from power source. Check lamp for proper seating and good contact with sockets. Re-install lamps correctly into sockets. Refer to WP 0035 00 for proper installation method. Replace burned out lamps.

2. Floodlight, power cord or extension damaged.

**Corrective Action**

Replace a damaged power cord extension. Replace the entire floodlight if it is inoperative due to damage.

3. Improper voltage.

**Corrective Action**

Using a voltmeter, verify that power source supplies 120V, 60Hz, 8.34 Amps.

**PROCEDURE 8, TRANSFORMER INOPERATIVE****Symptom**

Transformer inoperative

**Malfunction**

1. No power at low voltage output terminals.

**WARNING**

High voltage is present in the transformer. Only prime power and otherwise qualified personnel are authorized to make or check any connections within the transformer. Do not touch or attempt to connect/disconnect transformer cables. Death or severe injury may result from electrocution.

**NOTE**

Transformer failure may only be one of several possible reasons when no power is available at the PDISE.

**Corrective Action**

Perform Procedure 13, WP 0057 00. Notify prime power personnel of possible transformer failure indicated by no power being available. Use a multimeter, to check the incoming voltage to the ballast. It should read 120 Volt for both 50 and 60 Hertz.

2. Outgoing voltage from ballast inadequate.

**Corrective Action**

With fixture cord removed from its receptacle, use a multimeter to measure output voltage. Reading should be between 400 to 445 Volts. If proper voltage is not achieved, perform a capacitor check and replace capacitor.

**PROCEDURE 9, HEAT TRACED HOSE INOPERATIVE****Symptom**

Heat Trace not functioning

**Malfunction**

1. Power not connected.

**Corrective Action**

Check to ensure that the heat trace power cord is firmly connected to an active source supplying 20 A power.

2. Faulty extension cord.

**Corrective Action**

Examine the 20 A, 50-foot extension cord for damage and determine its serviceability by replacing it briefly with a similar cord. Replace the extension cord as necessary.

3. Faulty heat trace.

**Corrective Action**

If the fault persists, replace the heat traced hose.

**END OF WORK PACKAGE**

**CHAPTER 4**

**OPERATOR MAINTENANCE INSTRUCTIONS**  
**FOR**  
**FORCE PROVIDER**



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**FORCE PROVIDER  
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

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**INTRODUCTION**

Preventive Maintenance Checks and Services (PMCS) are performed to keep Force Provider subsystems and associated equipment in good operating condition. The checks are used to find, correct, or report problems. PMCS are done every day a Force Provider module is operated, using the PMCS table. Pay attention to WARNING and CAUTION statements. A WARNING statement means someone could be hurt. A CAUTION statement means equipment could be damaged. Equipment operators are to perform the PMCS tasks, keeping in mind the following guidelines:

Before you begin using Force Provider equipment, do **Before PMCS**.

During use of Force Provider equipment, do **During PMCS**.

After using Force Provider equipment, do **After PMCS**.

Once a week, do **Weekly PMCS** if Force Provider equipment has been in use.

Do **Monthly PMCS** once a month if Force Provider equipment has been in use.

The right-hand column of the PMCS table lists conditions, which make the equipment not fully mission capable. If you find something wrong when performing PMCS, fix it using troubleshooting and/or maintenance procedures as indicated.

Write up the faults that cannot be repaired on DA Form 2404 for unit maintenance. For further information on how to use this form, see DA PAM 738-750.

If tools that are required to perform PMCS are not listed in procedures, notify your superior.

**SCOPE**

This WP contains PMCS procedures for Force Provider unique equipment. PMCS for other equipment are described in the technical manuals or commercial publications furnished with the equipment to which they pertain. These publications are referenced in the PMCS Tables. Force Provider company subsystem operators are responsible for familiarizing themselves with the publications pertaining to the equipment they will operate. WP 0081 00, References, provides a comprehensive listing of all publications pertaining to Force Provider.

**INSPECTION**

Look for signs of trouble. Senses help here. You can feel, smell, hear, or see many problems that can be eliminated before they get worse. Inspect to see if items are in good condition. Are components correctly installed and secured? Is any damage to the components visible? Correct any faults or notify unit maintenance.

When you do your PMCS, you will always need a rag or two. There are some common items to check on Force Provider subsystems and associated equipment, including:

Cleanliness. Dirt, grease, oil, and debris only get in the way and may cover up more serious problems. Clean as you work and as needed.

Welds. Look for loose or chipped paint, rust or gaps, where parts are welded together. If you find a bad weld, report it to your supervisor.

Hoses and Fluid Lines. Look for wear, damage, and leaks, and make sure clamps and fittings are tight. Wet spots show leaks, but a stain around a fitting or connector can also mean a leak. If a leak comes from a loose fitting or connector, tighten it. If something is broken or worn out, report it to your supervisor.

Rust and Corrosion. Check Force Provider system/components for rust and corrosion. If found, report it to your supervisor.

Bolts, Nuts and Screws. Check for obvious looseness, missing, bent, or broken condition. Look for chipped paint, bare metal, or rust around bolt heads. If you find a bolt, nut or screw you think is loose, tighten it or report it to your supervisor.



**WARNING**

Force Provider equipment operates at high voltages. Use extreme caution. Touching a live wire can cause serious injury or death. Follow warnings contained in the operational and maintenance procedures to prevent serious injuries to personnel.

Electric Wires and Connectors. Look for cracked, frayed, or broken insulation, bare wires, and loose or broken connectors. Tighten loose connectors. Ensure power cables are not being subjected to vehicular or personnel traffic and cords are not exposed to standing water.

**LUBRICATION INTERVALS**

**NOTE**

To prolong the serviceable life of Force Provider equipment, it is very important to follow the procedures in this WP as well as those prescribed in the specified technical manuals indicated in the table below.

The lubrication requirements for the preponderance of the equipment used with Force Provider is documented in separate technical manuals. Refer to the index below to determine lubrication requirements for the equipment listed. An asterisk indicates lubrication requirements at the maintenance level shown.

**LUBRICATION REQUIREMENTS INDEX**

**Table 1. Lubrication Requirements.**

Equipment	Lubrication Requirements				Remarks
	Operator	Unit	DS	GS	
TM Number					
TEMPER	*				
TM 10-8340-224-13					
Army Space Heater (ASH)		*			
TM 9-4520-258-14					
Tactical Quiet Generator (TQG)	*	*			
LO 9-6115-645-12					
PDISE	No lubrication required				
TM 9-6150-226-13					
Sewage Ejection Pump (SEP)	No lubrication required				
TM 10-4630-206-12&P					



**Table 1. Lubrication Requirements – Continued.**

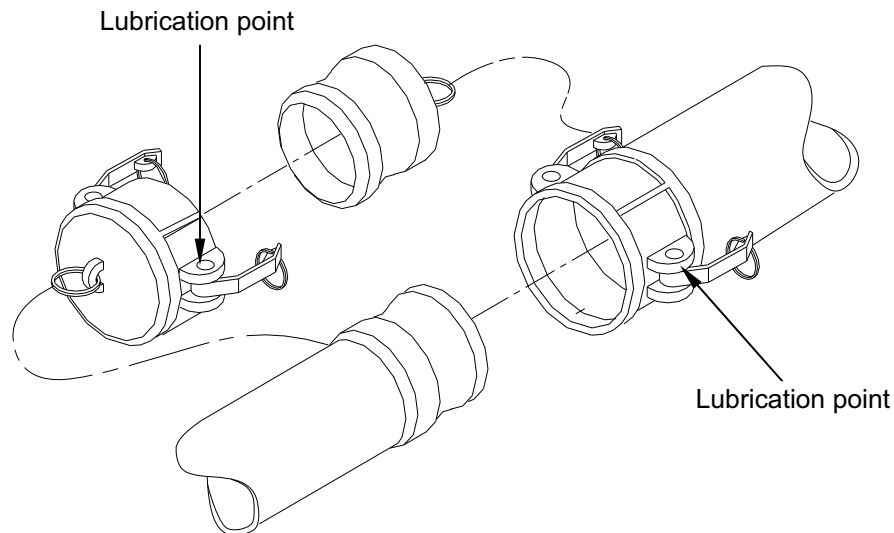
Equipment	Lubrication Requirements				Remarks
	Operator	Unit	DS	GS	
Containerized Batch Laundry TM 10-3510-225-13&P		*			Referenced to TM 55-8115-204-23&P
Containerized Latrine TM 10-4510-209-13&P		*			Referenced to TM 55-8115-204-23&P
Food Sanitation Center TM 10-7360-211-13&P	*				Also refer to TM10-8340-224-13
Containerized Shower TM 10-4510-208-13&P		*			Referenced to TM 55-8115-204-23&P
M-80 Water Heater TM 10-4520-259-13&P	No lubrication required				
General Cargo Container, ISO TM 55-8115-204-23&P		*			
Prefabricated Refrigerator TM 9-4110-241-13 and 23&P	*				
Tank, Fabric, Fuel 10,000-Gal TM 5-5430-210-12	*				
WWET/T TM 10-4630-207-13&P		*			

**20,000-Gallon Collapsible Fabric Tank (Type I Potable Water / Type II Wastewater)  
Potable Water Distribution Hoses  
Wastewater Collection Hoses**

Perform lubrication services on the 20,000-Gallon Collapsible Fabric Tank and hoses as indicated below:

**Table 2. Lubrication Services on 20,000-Gallon Collapsible Fabric Tank and Hoses.**

Location / Item	Frequency	Lubricant	No. of Areas/ Fittings/Amount
Cam Lever Arms	Semi-Annual	General Purpose Lube Oil	Two/Two Drops



**LEAKAGE CRITERIA**

It is necessary for you to know how fluid leakage affects the status of equipment that must be checked for leakage. Following are types/classes of leakage you need to know to be able to determine the status of the equipment. Learn these leakage definitions and remember - when in doubt, notify your supervisor.

**CAUTION**

Equipment operation is allowed with minor leakages (Class I or II). Consideration must be given to fluid capacity on the item or system being inspected. When in doubt, notify your supervisor.

When operating with Class I, or II leaks, continue to check fluid levels as required in the PMCS. Class III leaks should be reported immediately to your supervisor.

**Table 3. Leakage Criteria.**

<b>Class</b>	<b>Description</b>
Class I	Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.
Class II	Leakage of fluid great enough to form drops but not enough to cause drops to drip from item being checked/inspected.
Class III	Leakage of fluid great enough to form drops that fall from item being checked/inspected.

**THIS SECTION COVERS:**

PMCS Procedures

**INITIAL SETUP:**

Force Provider Subsystems assembled.

**Maintenance Level**

Operator/Unit

**Tools and Special Tools**

Tool Kit Gen Mechanic, Automotive (WP 0083 00, Item 5)

**Materials/Parts**

Grease, Gen Purpose (WP 0102 00, Item 55)

Rags, Wiping (WP 0102 00, Item 79)

Fuel, Diesel, VVF 8000 (WP 0102 00, Item 43)

ECU Air Filter (WP 0102 00, Item 37)

Gasket 1 ½-in (WP 0102 00, Item 50)

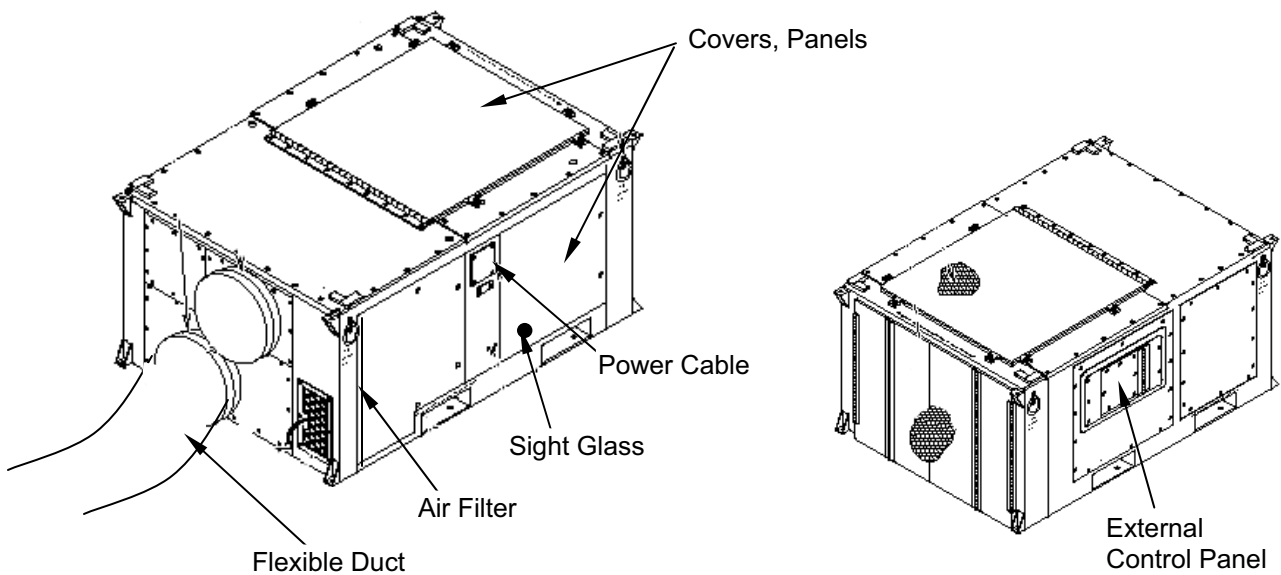
Gasket 2 ½-in (WP 0102 00, Item 48)

**Table 4. Preventive Maintenance Checks and Services for Force Provider Transportation Subsystem.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
Perform PMCS on TRICON Container Model ESETC-01, NSN 8145-01-389-9184 and Model 101 NSN 8145-01-475-9570 in accordance with TM 55-8145-203-13&P.				
Perform PMCS on Shelter, Tactical, Non-Expandable in accordance with TM 10-5411-202-14.				
Perform PMCS on ancillary equipment such as Special Purpose Web Tiedown, Shoring Beams, Shipping and Storage Shelves, TRICON Connector Links, and Reusable Containers w/ covers. Also, check for availability and condition of lumber pallets, spacers, and bracing materials. Determine the availability and serviceable condition of these items. Report shortages and unserviceable items to your supervisor. Missing or damaged items should be replaced using the requisitioning data found in TM 10-5419-206-23P.				

**Table 5. Preventive Maintenance Checks and Services for Force Provider Billeting Subsystem.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<p>Perform PMCS on TEMPER and related equipment in accordance with TM 10-8340-224-13.</p> <p>Perform PMCS on DISE and power equipment in accordance with TM 9-6150-226-13.</p> <p>Perform PMCS on ECU as follows:</p> <p>Perform PMCS on ancillary equipment such as Chairs, Footlockers, Bunk Beds, Floor Mats, Fire Extinguishers, Cleaning Equipment, and Tools. Determine serviceable condition of these items. Report shortages and unserviceable items to your supervisor. Missing or damaged items should be replaced using the requisitioning data found in TM 10-5419-206-23P.</p> <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px;"> <p><b>WARNING</b></p> </div> <p>Electrical high voltage cannot be seen, but it can kill you. Electricity is unlike most other dangerous things you can come in contact with because it gives no warning and no symptoms to be wary of. Its effect is immediate. It can kill you, severely burn you, or render you unconscious. To ensure your safety and that of other maintenance personnel, always observe the following precautions:</p> <p>DO NOT perform any maintenance on the ECU equipment unless all power switch is OFF, and power cable disconnected.</p> <p>BE CERTAIN there is someone assisting you who can remove power immediately.</p> <p>ALWAYS place POWER OFF warning tags on power supply switches so that no one will apply power while you are performing maintenance.</p> <p>FOR ARTIFICIAL RESPIRATION, REFER TO FM 21 –11.</p>				



**Table 5. Preventive Maintenance Checks and Services for Force Provider Billeting Subsystem – Continued.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Before	Doors, Covers, and Panels on ECU	<p>Check for loose or missing hardware or defective 1/4 - turn fasteners. Tighten or replace as necessary.</p> <p>Lubricate as necessary.</p>	Loose or missing hardware
2	Before After	Air Filter	<p>Open the evaporator access door and remove the air filter. Discard and replace if damaged.</p> <p>If dirty, wash with water spray and dry thoroughly.</p> <p>Refer to WP 0056 00 for installation of air filter.</p>	Air filter is obstructed.
3	Before After	Flexible Ducts	<p>Inspect for worn or torn spots. Replace if damaged.</p> <p>Check for secure attachment to flanges. Tighten if loose.</p> <p>Clean if necessary.</p>	Worn or ripped air ducts.
4	Before	External Control Panel	Inspect for missing, loose, or damaged knobs. Tighten or replace as indicated.	Knob missing that would affect safe operation of the air conditioner.
5	Before	External Control Panel	Inspect for missing, loose, or damaged knobs. Tighten or replace as indicated.	Knob missing that would affect safe operation of the air conditioner.
6	Before After	Power Cable	Inspect for frayed or damaged insulation secure terminal connections. Replace if damaged, or tighten, if loose.	Power cable damaged or loose.
7	Before	Sight Glass	<p>Check for cracked or broken glass lens. Replace sight glass if damaged.</p> <p>Clean lens as necessary.</p>	Sight Glass lens is cracked or broken.

**Table 6. Preventive Maintenance Checks and Services for Force Provider Laundry Subsystem.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<p>Perform PMCS on TEMPER in accordance with TM 10-8340-224-13.</p> <p>Perform PMCS on DISE in accordance with TM 9-6150-226-13.</p> <p>Perform PMCS on ECU as described in this WP under Billeting.</p> <p>Perform PMCS on CBL in accordance with TM 10-3510-225-13&amp;P.</p> <p>Perform PMCS on tank, fabric, collapsible, water, storage 3,000 gallon as described in TM 5-5430-225-12&amp;P.</p> <p>Perform PMCS on SEP in accordance with TM 10-4630-206-12&amp;P.</p> <p>Perform PMCS on M-80 water heater in accordance with TM 10-4520-259-13&amp;P.</p> <p>Perform PMCS on ancillary equipment such as Chairs, Folding Tables, Floor Mats, Fire Extinguishers, Footlockers, Laundry Bags and Pins, Cleaning Equipment, and Tools. Determine serviceable condition of these items. Report shortages and unserviceable items to your supervisor. Missing or damaged items should be replaced using the requisitioning data found in TM 10-5419-206-23P.</p>				

**Table 7. Preventive Maintenance Checks and Services for Force Provider Latrine Subsystem.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<p>Perform PMCS on CLS in accordance with TM 10 4510-209-13&amp;P.</p> <p>Perform PMCS on DISE and power equipment in accordance with TM 9-6150-226-13.</p> <p>Perform PMCS on WWET/T in accordance with TM 10-4630-207-13&amp;P.</p> <p>Perform PMCS on ancillary equipment such as Chairs, Footlockers, 1½-inch FC Tee Assembly, Tools and Cleaning Equipment. Determine serviceable condition of these items. Report shortages and unserviceable items to your supervisor. Missing or damaged items should be replaced using the requisitioning data found in TM 10-5419-206-23P.</p>				

**Table 8. Preventive Maintenance Checks and Services for Force Provider Shower Subsystem.**

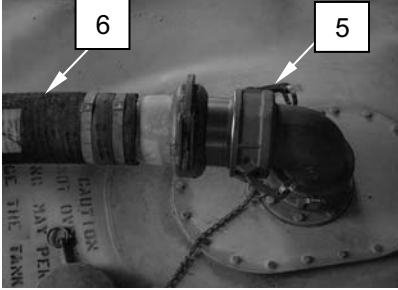

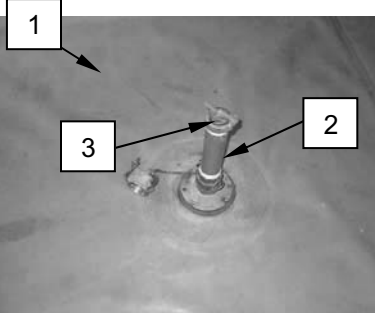

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<p>Perform PMCS on TEMPER in accordance with TM 10-8340-224-13.</p> <p>Perform PMCS on DISE in accordance with TM 9-6150-226-13.</p> <p>Perform PMCS on ECU as described in this WP under Billeting.</p> <p>Perform PMCS on M-80 water heater in accordance with TM 10-4520-259-13&amp;P.</p> <p>Perform PMCS on SEP in accordance with TM 10-4630-206-12&amp;P.</p> <p>Perform PMCS on CS in accordance with TM 10-4510-208-13&amp;P.</p> <p>Perform PMCS on 30-GPM water pump in accordance with TM 10-4510-208-13&amp;P.</p> <p>Perform PMCS on ancillary equipment such as Chairs, Footlockers, 1½-inch FC Tee Assembly, Tools and Cleaning Equipment. Determine serviceable condition of these items. Report shortages and unserviceable items to your supervisor. Missing or damaged items should be replaced using the requisitioning data found in TM 10-5419-206-23P.</p>				

**Table 9. Preventive Maintenance Checks and Services for Force Provider Water Distribution Subsystem.**

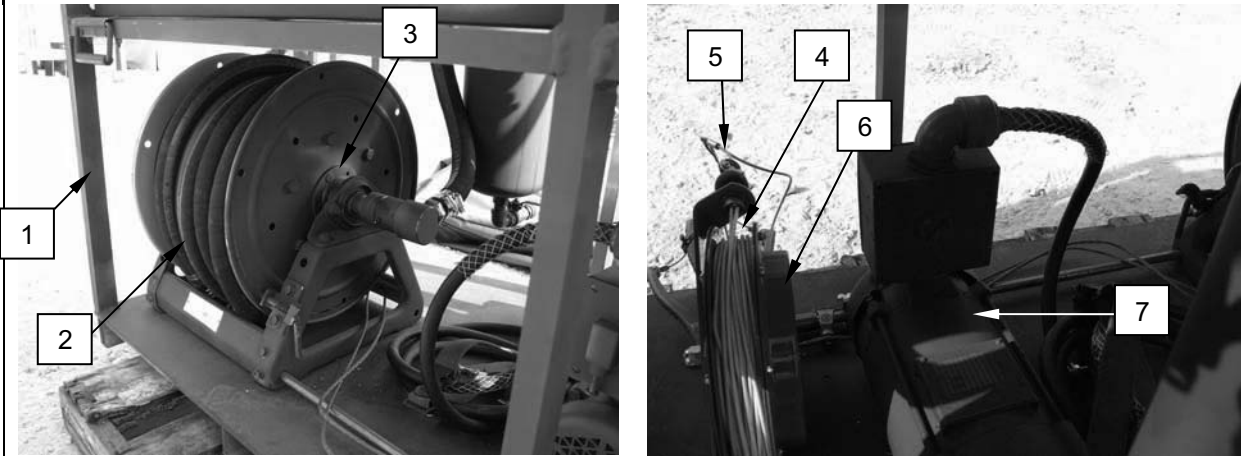
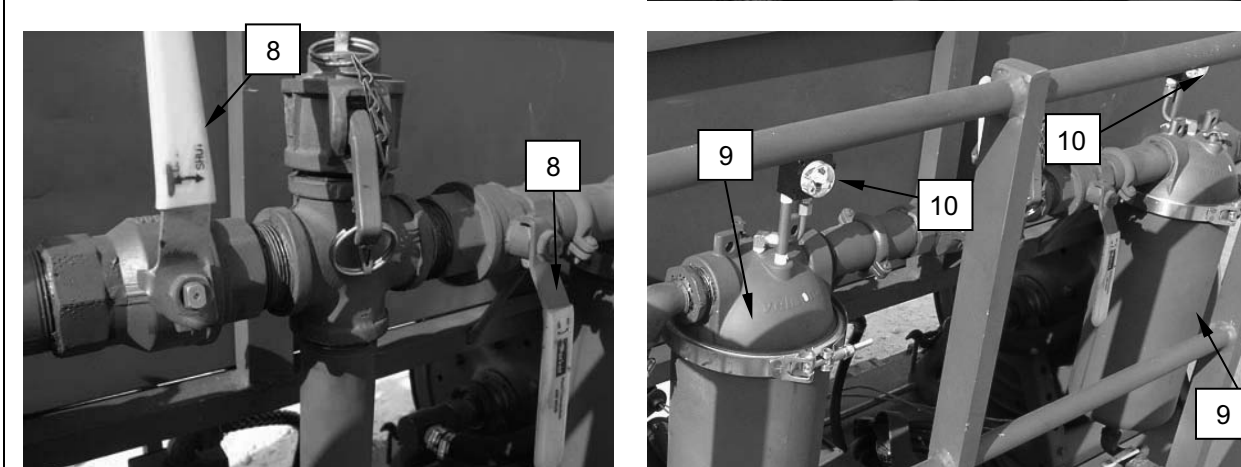
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<p>Perform PMCS on 400-gallon potable water tank trailer as described in TM 9-2330-267-14&amp;P.</p>				
<p>Perform PMCS on Containerized Shower Pump Assembly in accordance with TM 10-4510-208-13&amp;P.</p>				
1	Before	Quick-disconnect coupling halves.	Inspect coupling half (1) and dust plug (2) or cap (3) for cracks and bent or broken locking arms (4). Inspect for cut, torn, or missing gaskets (5).	Coupling half (1) is damaged. Dust plug (2) or cap (3) is damaged or missing. Locking arms (4) bent or broken. Gasket (5) damaged or missing.
2	Before	Suction and discharge hoses	Inspect hose (6) for cuts, tears, and deep abrasions. Inspect for loose coupling halves (1).	Hose (6) has cut, tear, or deep abrasion. Coupling half (1) is loose.
3	Before	Tee	Inspect Tee (7) for cracks, bent hypochlorinator valve (8), breaks, or severe corrosion.	Tee (7) has cracks, breaks, a bent hypochlorinator valve (8), or severe corrosion.
4	Before	Gate valves	Inspect gate valves (9) for bent valve stem (10), loose or missing hand wheel (11), cracked body, or missing plug (12) or cap (13) couplings.	Hand wheel (9) is missing.



**Table 9. Preventive Maintenance Checks and Services for Force Provider Water Distribution Subsystem – Continued.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<div style="display: flex; justify-content: space-around; align-items: center;">    </div> <div style="display: flex; justify-content: center; align-items: center;">  <div style="text-align: center;"> <p><b>WARNING</b></p> <p>Do not mix potable water and graywater components. Serious health problems may result from contaminated water.</p> </div> </div>				
5	Daily	20,000 GAL Collapsible Fabric Tank (Type I)	<p>Inspect tank (1) for leaks due to tears, or punctures.</p> <p>Inspect vent and pipe assembly (2) relief cap (3), cap gasket, and cam-lever arms for evidence of leakage, damage or missing parts. Check cap for cleanliness and freedom of operation. Check for worn out or missing gaskets.</p> <p>Check valves (4) for bent or binding stem, broken hand wheel, or handle, and leakage.</p> <p>Check gasket and cam-lever arm (5) for damage. Check fittings for distortion and damage. Inspect drain hose assembly (6) for leaks, cuts, and tears.</p>	<p>Tank shows evidence of tears, punctures and leaks.</p> <p>Relief cap is damaged or missing. Relief cap gasket, flat rubber gasket, or cam-lever arms are damaged or missing.</p> <p>Stem bent or binding. Hand wheel broken or missing.</p> <p>Gasket, or cam-lever arms are damaged or missing. Valves are leaking. Hose assembly leaks or is damaged.</p>


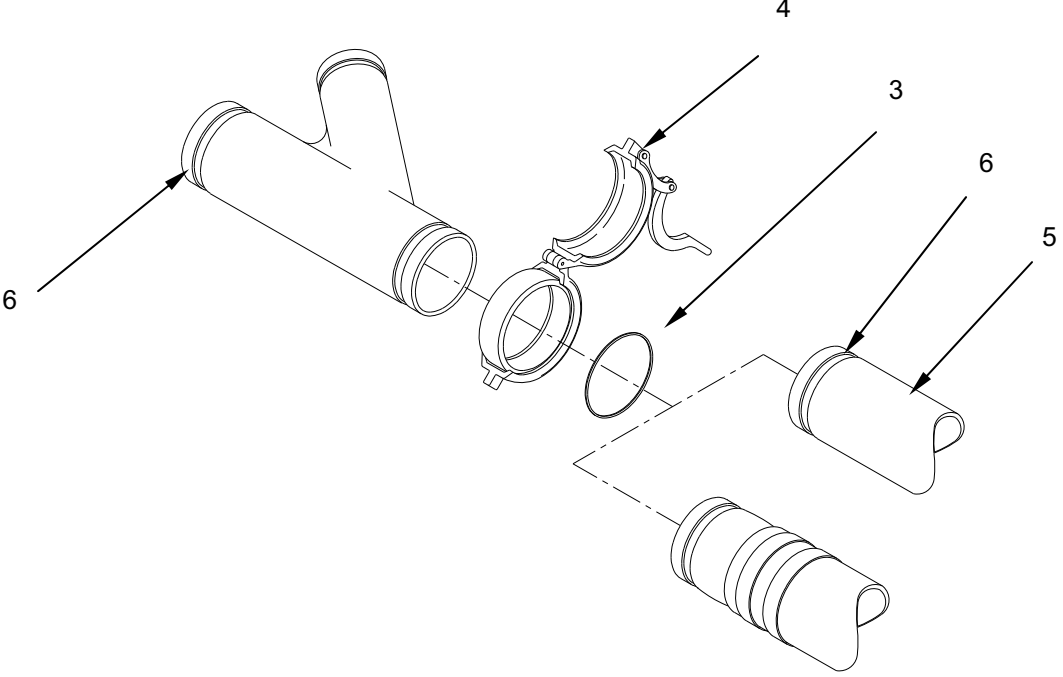
**Table 10. Preventive Maintenance Checks and Services for Force Provider Fuel Distribution Subsystem.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<p>Perform PMCS on collapsible fabric tank, 10,000-gallon as described in TM 5-5430-210-12.</p>				
<p>Perform PMCS on drum, fabric, collapsible, non-vented, 500-gallon liquid fuel in accordance with TM 10-8110-201-14&amp;P.</p>				
				
				
1	Before	FPFS Pump Assembly	<p>Check frame (1) for broken welds and bent frame members</p> <p>Check condition of fuel hoses (2) and free movement of reels (3).</p> <p>Check condition of ground wire (4), clamp (5) and free movement of reel (6).</p> <p>Check ball pump (7), valves (8), pump (8) and filters (9) for damage.</p> <p>Check gages (10) for damage.</p>	<p>Frame assembly broken and Interfering with operation of FPFS.</p> <p>Fuel hoses leaking or severely abraded. Reel inoperative.</p> <p>Ground wire, or clamp missing. Reel inoperative.</p> <p>Valves inoperative. Pump or filter damage.</p> <p>Gage broken.</p>

**Table 10. Preventive Maintenance Checks and Services for Force Provider Fuel Distribution – Continued.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
2	Before	Ball Valves	Inspect ball valve (1) for loose, missing, or stuck handle (2), broken locking arms (3). Inspect for cut, or missing gaskets (4).	Handle stuck, missing, locking arm(s) broken, gasket missing or damaged.
3	Before	Reducers	Inspect reducer (5) for damage to locking arms (6) and cut or missing gasket (7).	Gasket missing or damaged.
4	Before	T Assembly	Inspect T Assembly (9) for damage and cut, or missing gasket.	Gasket missing or damaged.
5	Before	Fuel Hose, 2-inch	Inspect fuel hose (10) for punctures leaks, or severe abrasions, as well as serviceability of fittings (11).	Hose leaking, punctured or severe abrasion. Fittings unserviceable.
6	Before	Nozzle	Inspect nozzles (12) for damage, leaks and serviceability.	Nozzle damaged or unserviceable.

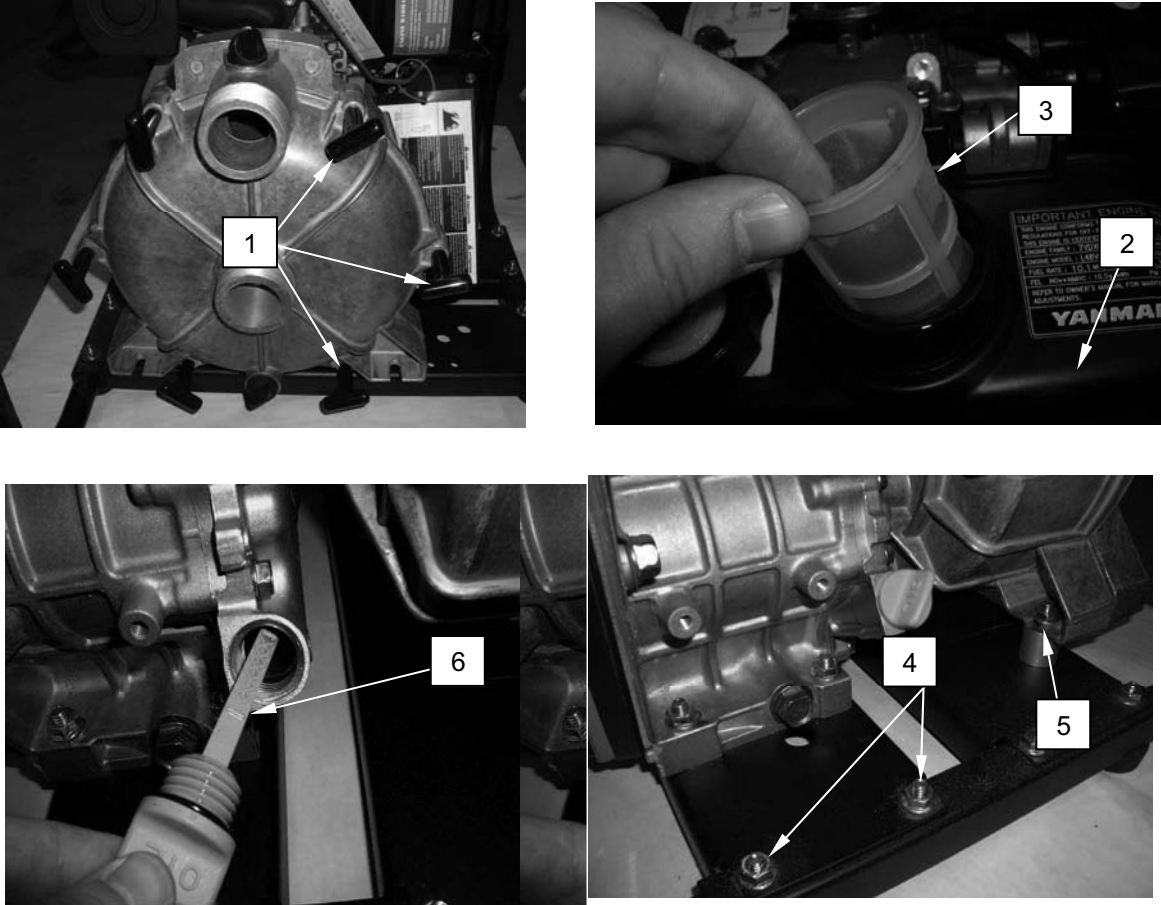
**Table 11. Preventive Maintenance Checks and Services for Force Provider Wastewater Collection Subsystem.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<p>Perform PMCS for pump unit, centrifugal, 125-GPM in accordance with TM 10-4320-325-14.</p> <p>Perform PMCS on 20,000 Gallon Collapsible Fabric Tank as described under water distribution.</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="text-align: center;"> <p><b>WARNING</b></p> <p>Do not mix potable water and graywater components. Serious health problems may result from contaminated water.</p> </div> </div> 				
1	Before	Snap-joint couplings	Inspect gasket (3) and housing (4) for damage and debris that would prevent proper seal.	Gasket (3) or housing (4) is damaged or debris present.
2	Before	Grooved end pipe, reducing laterals, elbow and T	Inspect grooved end pipe (5) for cracks and breaks. Inspect groove (6) for damage or debris that would prevent proper seal.	Grooved end pipe (5) is cracked or broken. Damage or debris in groove (6).

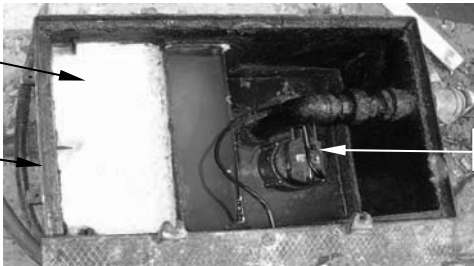
**Table 11. Preventive Maintenance Checks and Services for Force Provider Wastewater Collection Subsystem – Continued.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
3	Before	Gate valves	Inspect gate valve (7) for loose or missing hand wheel (8). Rotate hand wheel (8), valve stem should turn freely.	Hand wheel is loose or missing. Valve stem does not turn freely. Bolt or nut is loose or missing.
4	Before	Ball valves	Inspect ball valve (9) for loose or missing lever handle (10). Rotate lever handle (10), ball valve should turn freely. Check for loose or missing bolts and nuts.	Lever handle is loose or missing. Ball valve does not turn freely. Bolt or nut is loose or missing.
5	Before	Check valve	Inspect check valve body (11) for cracks. Inspect for torn or cut flapper valve.	Body is cracked. Flapper valve is torn or cut.
6	Before	Strainer	Inspect strainer body (12) for cracks. Inspect screen for breaks.	Body is cracked. Screen has break.

**Table 11. Preventive Maintenance Checks and Services for Force Provider Wastewater Collection Subsystem – Continued.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
				
7	Before	Trash Pump	Check for missing handles (1). Ensure handles are secured.	Handles missing, bent, or loose.
8	Before		Ensure diesel tank (2) is full and inlet fuel screen (3) is clean. Check beneath tank for evidence of fuel leak.	Inlet fuels screen dirty or clogged. Evidence of fuel leak.
9	Before		Check for presence and security of mounting platform hardware (4) and pump mounting bolts (5).	Mounting platform damaged loose or hardware missing.
10	Before		Check crankcase oil level (6).	Crankcase oil level low. Filler cap missing or damaged.
11	Before		Check for damage to pump cage.	Pump cage bent, or otherwise damaged.

**Table 12. Preventive Maintenance Checks and Services for Force Provider Food Service Subsystem.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<p><b>Food Service Subsystem:</b></p> <p>Perform PMCS on TEMPER in accordance with TM 10-8340-224-13.</p> <p>Perform PMCS on DISE in accordance with TM 9-6150-226-13.</p> <p>Perform PMCS on ECU as described in this WP under Billeting.</p> <p>Perform PMCS on FSC in accordance with TM 10-7360-211-13&amp;P.</p> <p>Perform PMCS on refrigerator, 600-cubic foot, prefab as described in TM 9-4110-241-13.</p> <p>Perform PMCS on refrigeration unit, mechanical 10,000-BTU as described in TM 5-4110-242-14.</p> <p>Perform PMCS on M-80 water heater in accordance with TM 10-4520-259-13&amp;P.</p> <p>Perform PMCS on ASH in accordance with TM 9-4520-258-14.</p> <p>Perform PMCS on kitchen equipment in accordance with TM 10-7310-282-10.</p>				
1	Daily	Grease trap	Remove accumulated grease and sludge (1) from grease trap (2). Ensure pump (3) is serviceable.	Trap has accumulated grease or sludge. Trap no longer serviceable.
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**Table 13. Preventive Maintenance Checks and Services for Force Provider Administrative Subsystem.**

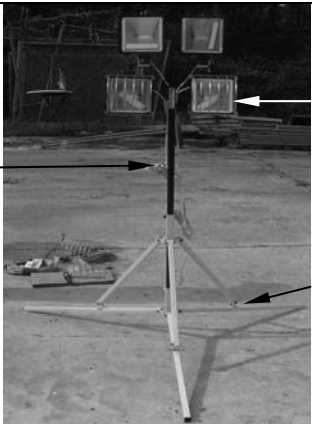
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<p>Perform PMCS on TEMPER and related equipment in accordance with TM 10-8340-224-13.</p> <p>Perform PMCS on DISE and power equipment in accordance with TM 9-6150-226-13.</p> <p>Perform PMCS on ECU as described in this WP under Billeting.</p> <p>Perform PMCS on ancillary equipment such as Chairs, Footlockers, Bunk Beds, Floor Mats, Fire Extinguishers, Cleaning Equipment, and Tools. Determine serviceable condition of these items. Report shortages and unserviceable items to your supervisor. Missing or damaged items should be replaced using the requisitioning data found in TM 10-5419-206-23P.</p>				



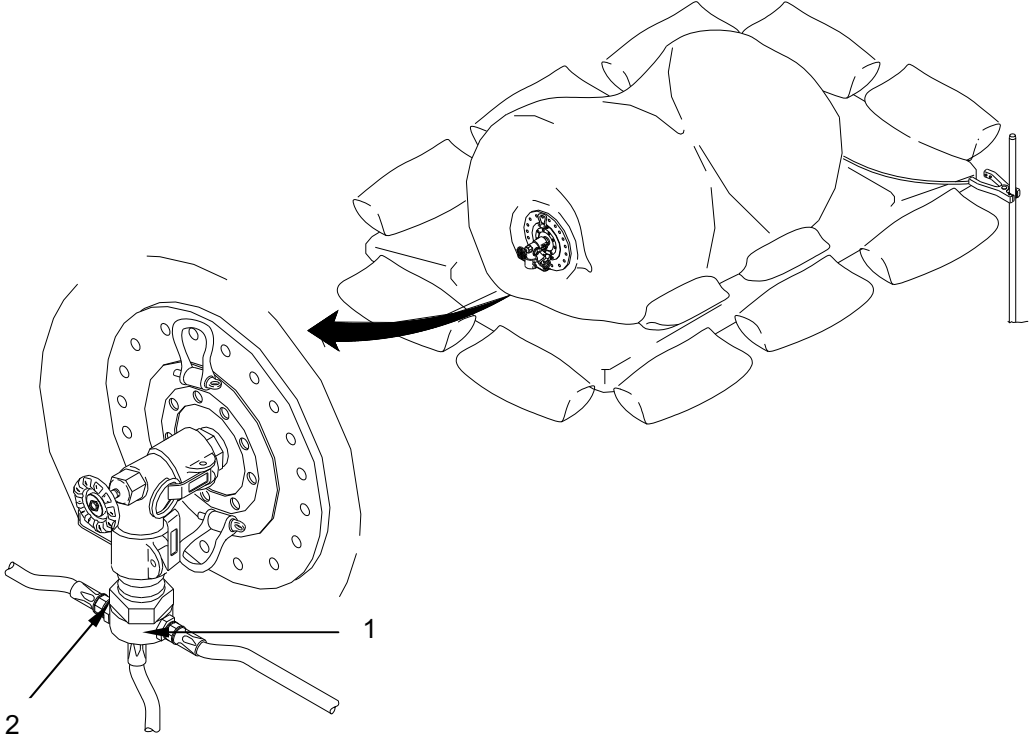
**Table 14. Preventive Maintenance Checks and Services for Force Provider Morale, Welfare and Recreation Subsystem.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<p><b>Morale, Welfare and Recreation Subsystem:</b></p> <p>Perform PMCS on TEMPER in accordance with TM 10-8340-224-13.</p> <p>Perform PMCS on DISE in accordance with TM 9-6150-226-13.</p> <p>Perform PMCS on ECU as described in this WP under Billeting.</p> <p>Perform PMCS on ancillary equipment such as Chairs, Footlockers, Bunk Beds, Floor Mats, Fire Extinguishers, Cleaning Equipment, and Tools. Determine serviceable condition of these items. Report shortages and unserviceable items to your supervisor. Missing or damaged items should be replaced using the requisitioning data found in TM 10-5419-206-23P.</p>				

**Table 15. Preventive Maintenance Checks and Services for Force Provider Floodlight Subsystem.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
				
1	Daily	Floodlights	Check floodlight (1) and tripod (2) for damage. Ensure power cord (3) is connected to power source.	Floodlight damaged. Tripod bent or unserviceable. Power cord missing/not connected.

**Table 16. Preventive Maintenance Checks and Services for Force Provider Modification System Power Generation.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
<p>Perform PMCS on Switch Boxes and cables in accordance with TM 9-6115-663-13&amp;P.</p> <p>Perform PMCS on 60-kW TQG in accordance with TM 9-6115-645-10.</p> 				
1	Before	Fuel Manifold	Inspect fuel manifold (1) for damage and loose fittings (2).	Fuel manifold (1) is damaged or has loose fittings (2).

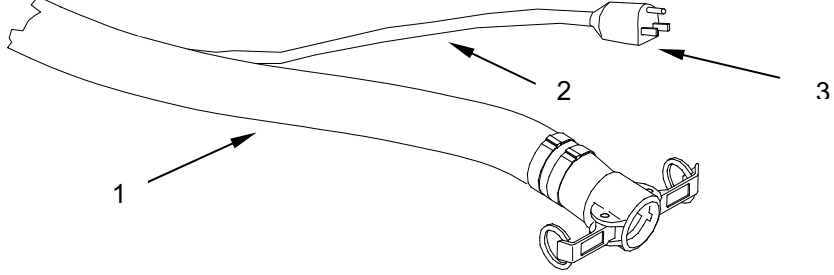
**Table 17. Preventive Maintenance Checks and Services for Force Provider Modification System Prime Power.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
Perform PMCS on Prime Power equipment in accordance with Prime Power Unit SOP.				

**Table 18. Preventive Maintenance Checks and Services for Force Provider Modification System Cold Weather.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
Perform PMCS on ASH in accordance with TM 9-4520-258-14.				
Perform PMCS on M-80 water heater in accordance with TM 10-4520-259-13&P.				
1	Daily	TEMPER Roof	Remove snow from the TEMPER roof, using snow rake.	Snow has accumulated to a depth of 4-inch on the roof.
2	Daily	TEMPER Side and End Walls	Remove snow along the sides of the TEMPER and around the entry and ASH heaters.	Snow accumulated to half height between the ground and windows. ASH can not be refueled/ serviced.
3	Daily	TEMPER stakes, lines and skirts	Check stakes, tighten tiedown lines, secure tent skirts with sand bags and close air gaps.	Loose tiedowns, open air gaps and loose skirts prevent interior heating.
4	Weekly	Modified M-80 Heater Exhaust	Check modified heater exhaust (1) for proper operation, presence of rain cap (2), and secure seating.	Improper seating of exhaust or rain cap missing.

**Table 18. Preventive Maintenance Checks and Services for Force Provider Modification System Cold Weather – Continued.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
		Modified TRICON	Check for standing water on TRICON floor (3). Sweep as necessary.	
				
5	Before	Heat Trace Hoses	Inspect for damage to hose (1), cord (2), and plug (3).	Physical damage or leak.

**END OF WORK PACKAGE**

---

**OPERATOR MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
ECU  
INSPECT, SERVICE**

---

**INITIAL SETUP:****Tools**

None

**Personnel Required**

One

**Materials/Parts**

Air Filter 13230E3574, WP 0102 00, Item 37

**Equipment Condition**

ECU shut down and power disconnected.

**INSPECT**

Inspect the ECU as described under PMCS (Billeting). If the air filter is clogged, damaged, or worn, clean or replace it as described below.

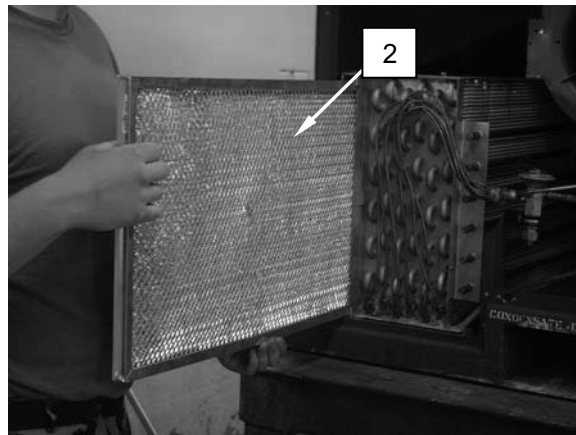
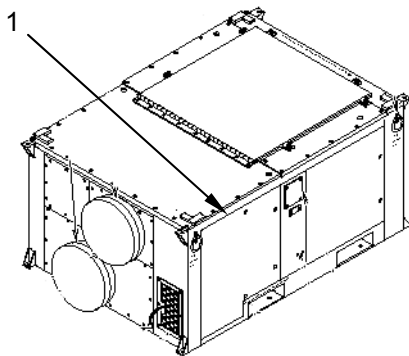
**NOTE**

When removing the air filter, note the air-flow direction and install the new or cleaned filter in the same way.

**SERVICE**

To clean the air filter, proceed as follows:

1. Open the left front door (1).
2. Remove the air filter (2).
3. Blow out the air filter with compressed air.
4. Reinstall the cleaned or new air filter.
5. Close the left front door.

**END OF WORK PACKAGE**



**OPERATOR MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
20,000 GALLON COLLAPSIBLE FABRIC TANK (TYPE I AND II)  
INSPECT, REPAIR**

**INITIAL SETUP:**

**Tools**  
None

**Personnel Required**  
One

**Materials/Parts**  
20,000-Gal Water Tank Emergency Repair Kit

**Equipment Condition**  
Tank in use.

**INSPECT**

Inspect the 20,000 Gallon Collapsible Fabric Tank as described in PMCS (WP 0059 00, Table 9) under Potable Water Distribution. If the tank is leaking from the drain, fill, or vent fitting, notify unit maintenance. If the tank is leaking from a puncture in the fabric, obtain the 20,000-Gallon Collapsible Fabric Tank emergency repair kit (Part Number 8600000265, CAGE 66618, shipped with tank) and perform emergency repair as described below. After application of emergency repair, notify unit maintenance.

**20,000 Gallon Collapsible Fabric Tank Emergency Repair Kit Contents**

Cutting knife with sheath	Clamp, sealing, 5-in
Plug, wood, tapered, $\frac{5}{8}$ -in	Clamp, sealing, 7 $\frac{1}{2}$ -in
Plug, wood, tapered, 1 $\frac{1}{2}$ -in	Pouch, repair kit
Plug, wood, tapered, 2-in	Pliers, linesman, 8-in
Plug, wood, tapered, 3-in	Gasket, 4-in
Plug, wood, tapered, 5-in	Gasket, 1 $\frac{1}{2}$ -in
Patch, mechanical, $\frac{3}{4}$ -in	Tape, antiseize, $\frac{1}{2}$ -in wide
Patch, mechanical, 2-in	Instructions
Patch, mechanical, 3-in	

**REPAIR****WARNING**

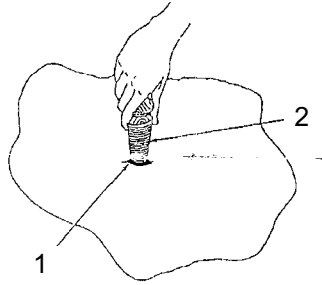
To avoid contamination when repairing potable water tank, hands, tools, and replacement parts must be clean.

**NOTE**

Apply emergency repair with wood plug only if the tank contains water.

1. From 20,000 Gallon Collapsible Fabric Tank emergency repair kit, select wood plug size needed to seal tank puncture (1):
  - a. For punctures up to  $\frac{1}{2}$ -inch (1.27-cm), use 3-inch (7.62-cm) long wood plug (2).
  - b. For punctures up to  $1\frac{1}{2}$ -inch (3.81-cm), use 5-inch (12.7-cm) long wood plug.
2. Insert wood plug (2) in tear and twist to right until fit becomes snug.

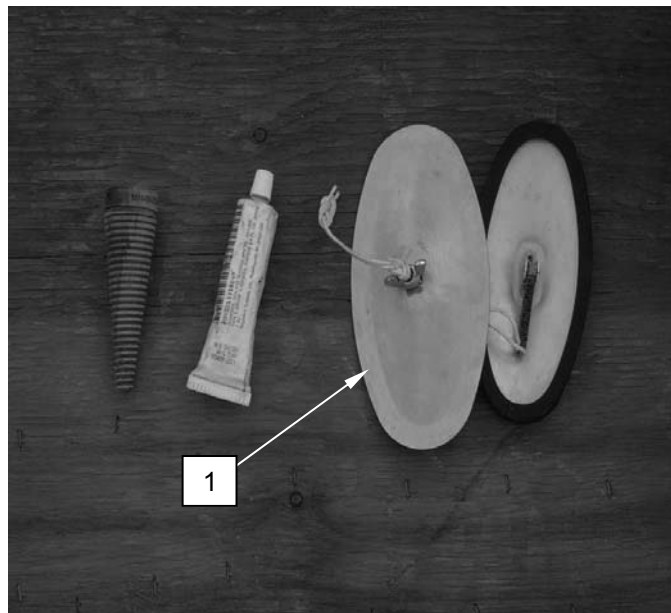
3. Check wood plug (2) regularly for leaks while the tank contains water. Tighten wood plug to reduce leaks as necessary.



4. Remove plug and install sealing clamp (part of 20,000 Gallon Collapsible Fabric Tank emergency repair kit) when operation permits, when tank is empty as part of normal operation, replace it.

To apply emergency repair using sealing clamps, proceed as follows:

1. Repair small cuts, slits, or tears no longer than 6½ inches in length with sealing clamps (1) furnished with the tank emergency repair kit.



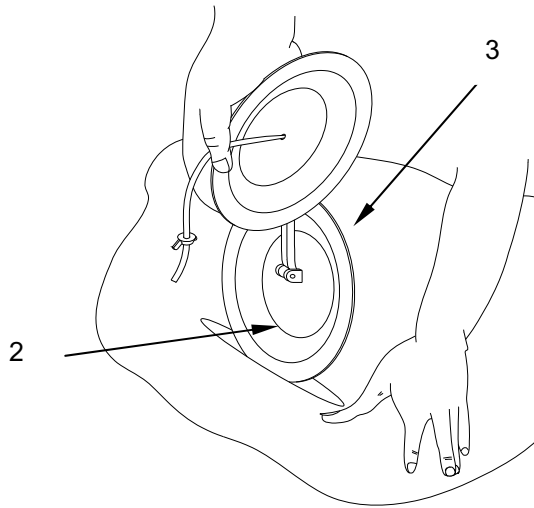
2. Use the following criteria to select the appropriate size sealing clamp:
  - a. For tears up to two inches in length, install 3-inch sealing clamp.
  - b. For tears between 2 to 4 inches in length, install a 5-inch sealing clamp.
  - c. For tears between 4 and 6½ inches in length, install a 7-inch sealing clamp.



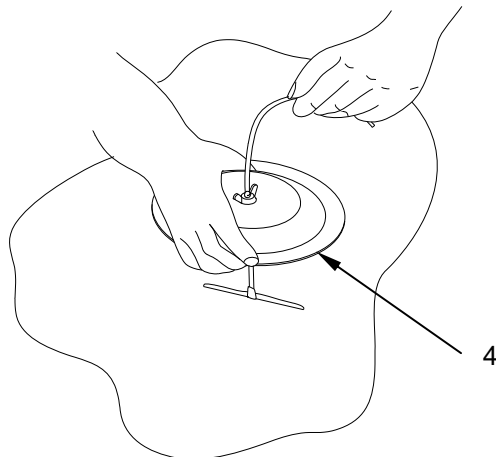
**WARNING**

Be careful when installing sealing clamp into tank. Water will pour out when a larger slit is made. Installation may contaminate water. Test water prior to use.

3. If necessary, enlarge size of tear with pocketknife to insert bottom plate of sealing clamp.
4. Insert bottom plate (2) of sealing clamp through hole or tear. Position gasket (3) to the side and against the tank. Rotate plate until it is centered and parallel to tear.



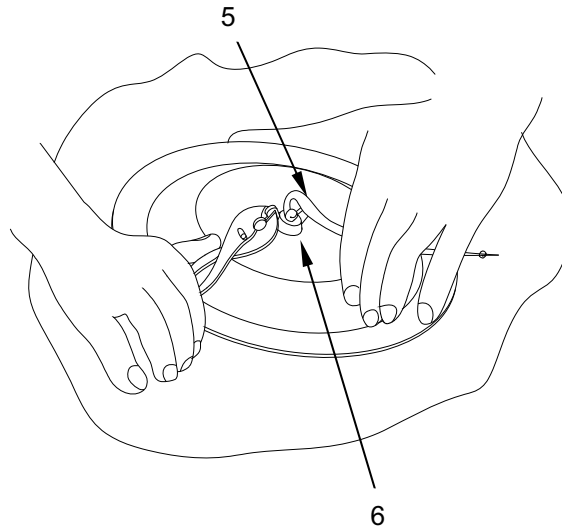
5. Center top plate (4) of sealing clamp on threaded shank and directly over bottom plate.



**CAUTION**

Do not over-tighten wing nut. Hand-tighten it only until the water leak stops. The clamp gasket can be damaged if over-tightened.

6. Grasp nylon cord (5) firmly while tightening wing nut (6).



7. Tighten wing nut (6) to secure tank wall between two plates. Tighten wing nut only enough to stop the leak.
8. Remove nylon cord (5).

**END OF WORK PACKAGE**

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**OPERATOR MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
VALVES, HOSES, PIPES, TEE, AND FITTINGS  
INSPECT, REPAIR**

---

**INITIAL SETUP:****Tools**  
None**Personnel Required**  
One**Materials/Parts**

Gasket 1½-in (WP 0102 00, Item 50)  
 Gasket 1-in (WP 0102 00, Item 47)  
 Gasket 2-in (WP 0102 00, Item 51)  
 Gasket 4-in (WP 0102 00, Item 52)  
 Gasket, 2 ½-in (WP 0102 00, Item 48)

**Equipment Condition**

Hoses, fittings, T, pipes, and valves  
 disconnected

---

**INSPECT**

Inspect potable water, wastewater and fuel Tee, hoses, valves, pipes, and fittings for general serviceability. Note any damage such as bent stems on valves, severe abrasions on hoses, or damaged cam-lock arms. Refer to unit maintenance. Check for presence and condition of gasket. Replace as necessary as described below.




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**WARNING**

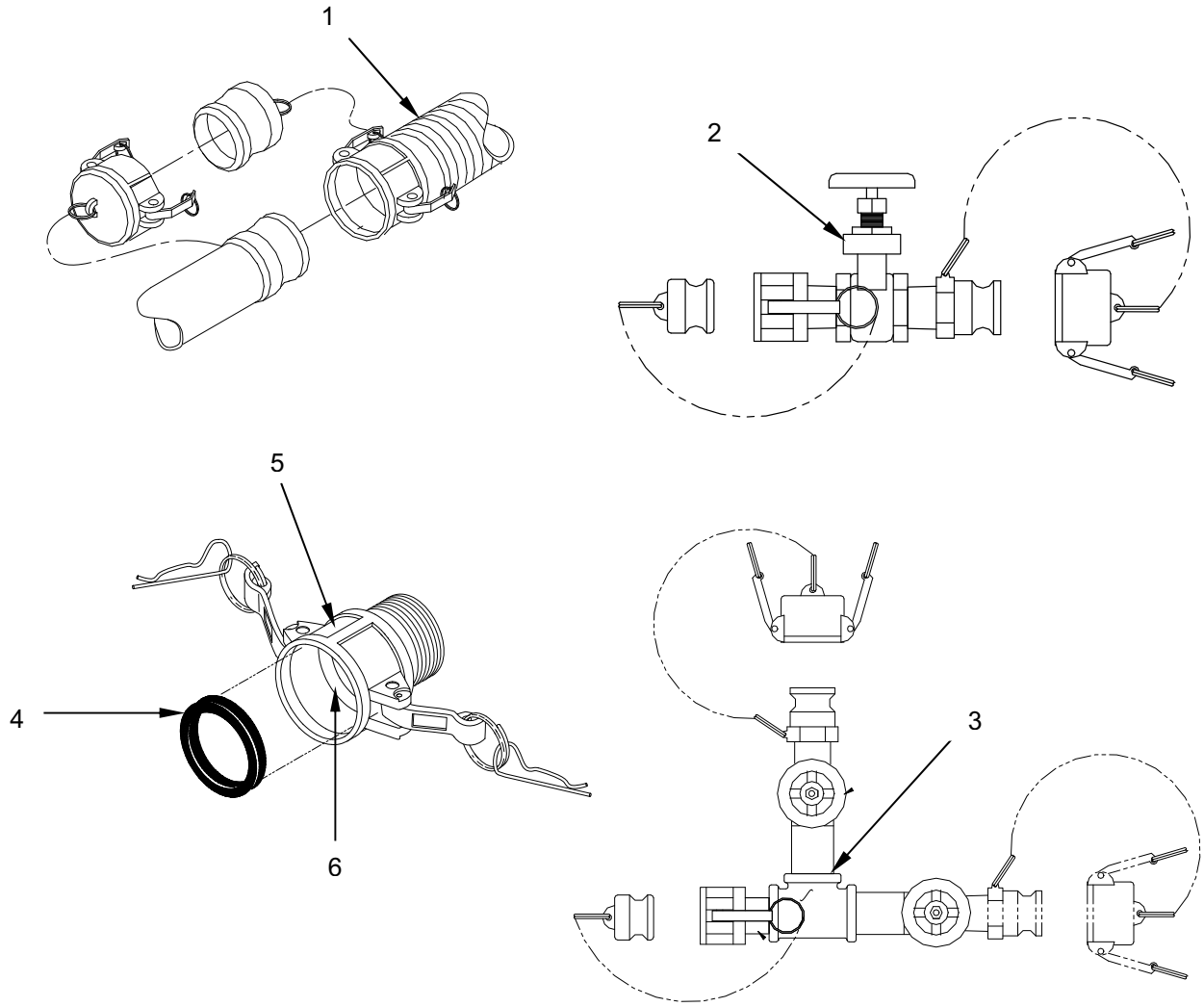
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To avoid contamination, always use the inspected or repaired item within the same subsystem, i.e. potable water, graywater, or fuel. Do not mix gaskets. When repairing potable water system components, hands, tools, and replacement parts must be clean.

**REPAIR**

Repair hoses (1), gate valves (2), and Tee (3), as well as pipes and fittings by replacing missing or unserviceable gasket as follows:

1. Remove the gasket (4) from female QDC coupling half (5). Ensure entire gasket is removed, and groove (6) is clear.
2. Install new gasket.



**END OF WORK PACKAGE**

**CHAPTER 5**

**UNIT MAINTENANCE INSTRUCTIONS**  
**FOR**  
**FORCE PROVIDER**



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**FORCE PROVIDER  
SERVICE UPON RECEIPT**

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**SERVICE UPON RECEIPT**

No specific de-processing is required for the Force Provider module. However, the tasks prescribed in this WP must be performed to ensure proper functioning of the equipment. Refer to WP 0081 00, References, for requirements of separately documented equipment.



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**WARNING**

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The preponderance of Force Provider equipment is heavy. To avoid injuries, follow the instructions in component manuals and use specified number of person to uncrate and handle the equipment.

**Unpacking**

Unpack Force Provider equipment as described in WP 0023 00 through 0038 00. Save all packing, crating, and dunnage material and place it back into the TRICON for use during return shipment.

**Packing List Verification**

Check the components removed from each TRICON against the packing list posted inside the TRICON door, to see if the shipment is complete. Report all discrepancies in accordance with DA PAM 738-750.

**Inspection**

Inspect Force Provider subsystem equipment and its components for damage incurred during shipment. If the equipment has been damaged in shipment, report the damage on SF 368, Product Quality Deficiency Report.

**De-preservation**

Prior to preparing equipment for use, remove preservative materials such as shrink-wrap. Compounds applied to the M-80 water heaters, WWET/T, 400-Gallon water trailers and other equipment to protect it during storage and shipment must also be removed prior to placing the equipment into operation.

**Repair**

Repair damaged equipment, as necessary, using unit maintenance procedures in this chapter to restore equipment to operable condition.

**END OF WORK PACKAGE**





**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
20,000 GALLON WATER TANK  
INSPECT, REPLACE**

**INITIAL SETUP:****Tools**

Tool Kit, General Mech. Automotive (WP 0083 00, Item 5)  
Torque Wrenches, 0-50 in/lbs, and 0-50 ft/lbs (WP 0083 00, Items 10 and 11)

**Materials/Parts**

20,000-Gallon Tank Emergency Repair Kit  
Rags, Wiping (WP 0102 00, Item 79)

**Personnel Required**

Two

**Equipment Condition**

Tank empty and not in use.

**INSPECT**

Inspect the tank as described in WP 0059 00, Preventive Maintenance Checks and Services (PMCS).



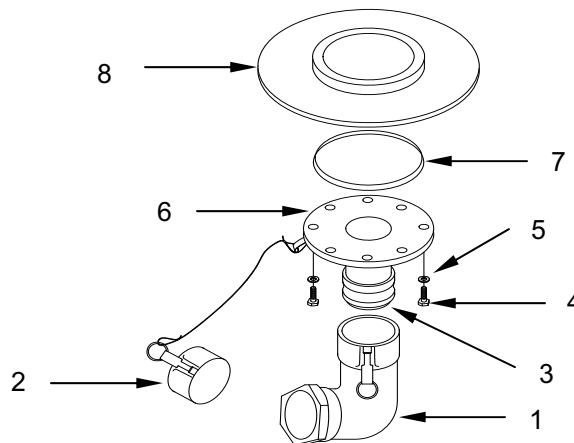
**WARNING**

Force Provider utilizes similar tanks for potable water (Tank type I) and wastewater (Tank type II). To prevent contamination of drinking water supplies, install only new parts onto a Type I tank. Installing used or substandard parts can cause death or severe illness to individuals who ingest or contact contaminated water.

**REPLACE**

To disassemble drain fitting, proceed as follows:

1. Remove elbow fitting (1) and dust cap (2) from the flanged adapter (3).
2. Remove cap screws (4) and washers (5) from the drain cover plate (6).
3. Remove drain cover plate (6) and preformed packing (7) from tank fitting (8).

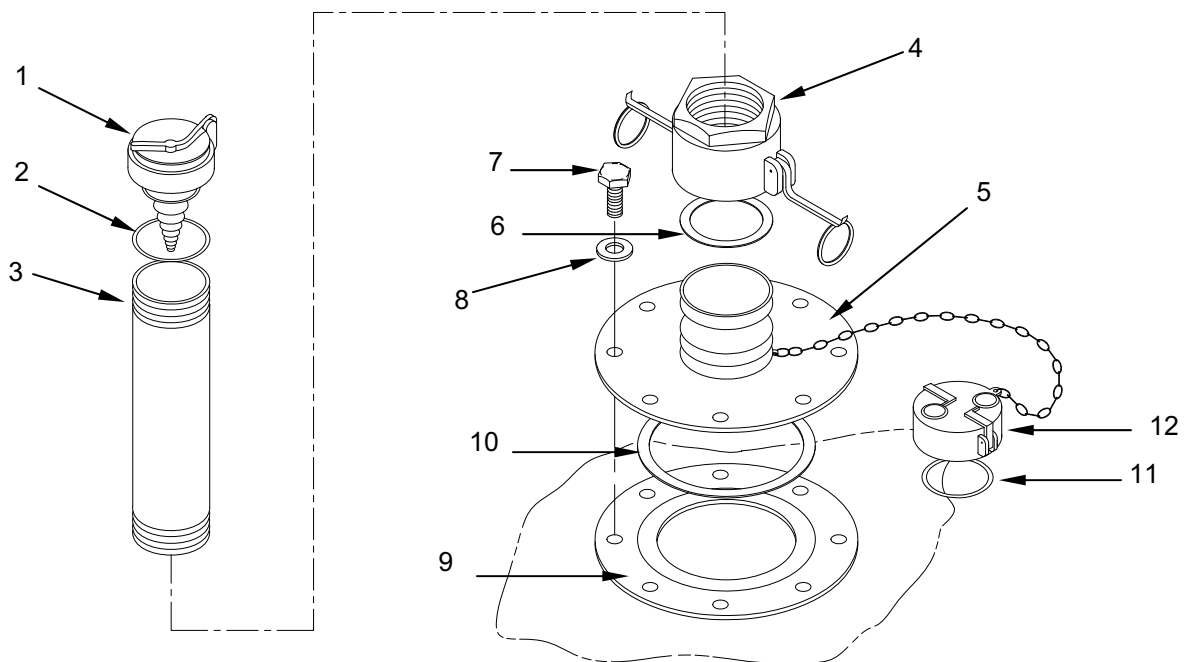


While replacing components as necessary, reassemble the drain fitting assembly as follows:

1. Place preformed packing (7) into groove on tank fitting (8).
2. Place drain cover plate (6) into position over tank fitting (8) and align holes.
3. Install hex head cap screws (5) and washers (4). Hand-tighten.
4. When all screws have been installed tighten them in a star pattern to 30-inch/pounds.
5. Install flanged adapter (3) onto the drain cover plate (6).
6. Install elbow fitting (2) onto flanged adapter (3) and dust cap (1) onto elbow fitting (2).

To replace vent pipe components, proceed as follows:

1. Remove the relief cap (1) and relief cap gasket (2) from the vent pipe (3).
2. Unscrew vent pipe (3) from female QDISC connector (4).
3. Remove QDISC connector (4) from flanged fitting (5).
4. Remove gasket (6) from female QDISC connector (4).
5. Remove hex head cap screws (7) and washers (8) from flanged fitting (5) and tank fitting (9).
6. Remove O-ring (preformed packing) (10) from tank fitting (9).
7. Remove gasket (11) from dust cover (12).



While replacing components as necessary, reassemble the drain fitting assembly as follows:

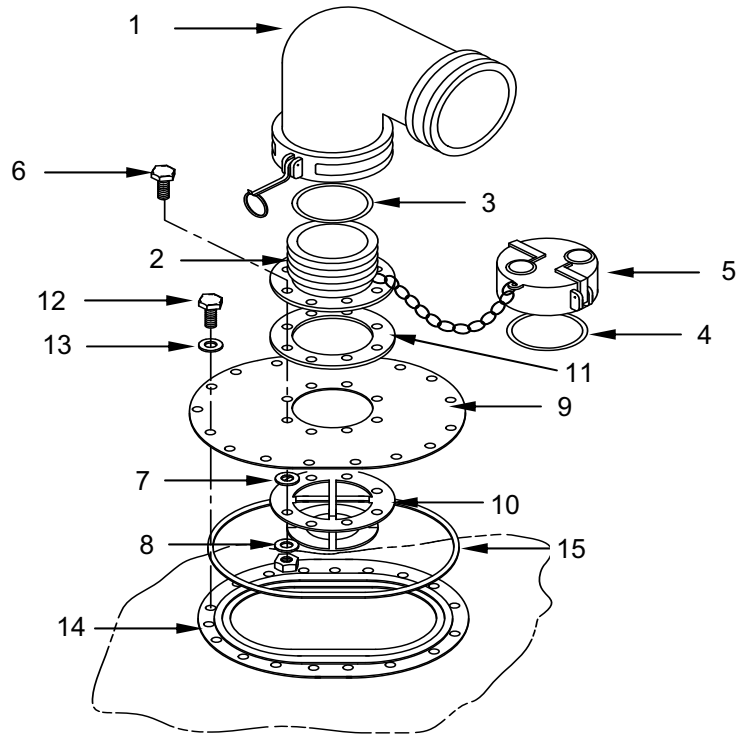
1. Install gasket (11) into dust cap (12).
2. Install O-ring (preformed packing) (10) between tank fitting (9) and flanged fitting (5).
3. Position flanged fitting (5) onto tank fitting (9) and align holes.
4. Install hex head cap screws (7) and washers (8) into flanged (5) and tank fitting (9)
5. When all screws have been installed, tighten them in a star pattern to 30-inch/pounds.
6. Install gasket (6) into female QDC connector (4).
7. Install vent pipe (3) into female QDC connector (4).
8. Place relief cap gasket (2) onto vent pipe (3) and install relief cap (1) onto vent pipe (3).

To replace filler/discharge assembly components, proceed as follows:

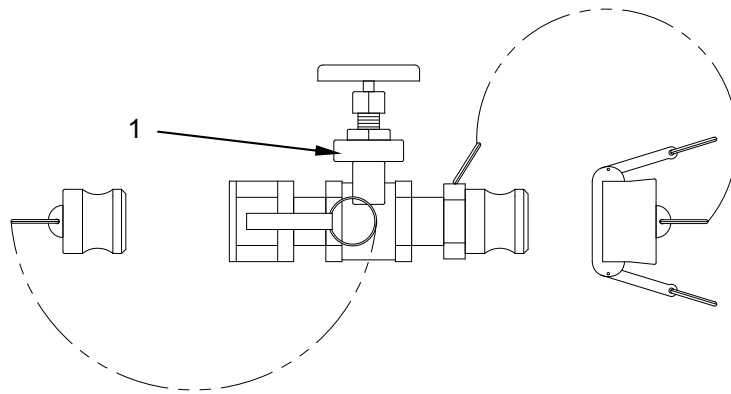
1. Remove QDISC elbow coupling (1) from flange adapter (2), and gasket (3) from coupling (1).
2. Remove gasket (4) from dust cover (5) on flange adapter (2).
3. Remove hex head cap screws (6), washers (7), and nuts (8) from flange adapter (2), closure plate (9), and spreader (10).
4. Remove flange gasket (11).
5. Remove hex head cap screws (12) and washers (13) from closure plate (8) and tank fitting (14).
6. Remove preformed packing (15) from tank fitting (13).

While replacing components as necessary, reassemble the drain fitting assembly as follows:

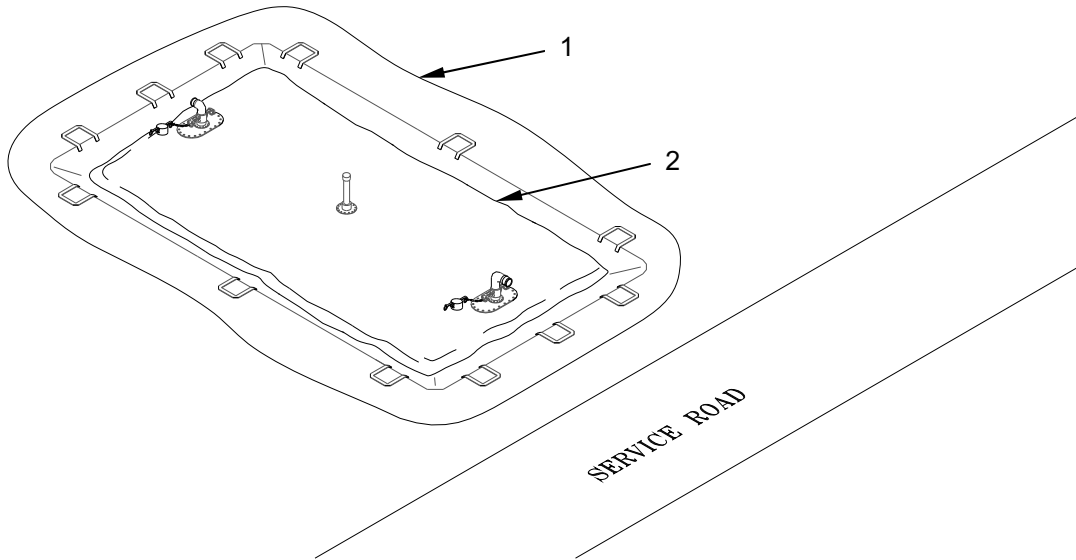
1. Place flange gasket (11) onto closure plate (9) and flange adapter (2) onto flange gasket (11).
2. Align holes with those in closure plate (9) and spreader (10).
3. Install hex head cap screws (6), washers (7), and nuts (8) to assemble the flange adapter (2), flange gasket (11), closure plate (9), and spreader (10). Torque to 30-foot/pounds in star pattern.
4. Place preformed packing (15) onto tank fitting (14).
5. Install closure plate assembly onto tank fitting (14) with capscrews (12), and washers (13).
6. Install gasket (3) into elbow coupling (1), and coupling onto the flange adapter (2).
7. Install gasket (4) into dust cover (5) on flange adapter (2).



Replace a damaged or leaking drain gate valve (1) as necessary.



Replace a damaged ground cloth (1) or a damaged and leaking tank (2) as necessary.



**END OF WORK PACKAGE**



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**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
POTABLE WATER VALVES, TEE, AND HOSES  
INSPECT, REPAIR, REPLACE**

---

**INITIAL SETUP:****Tools**

Tool Kit, General Mech. Automotive (WP 0083 00, Item 5)  
 Tool Kit, Plumber's (WP 0083 00, Item 7)  
 Wrench, Open-end,  $\frac{9}{16}$  " (2) (WP 0083 00, Item 12)

**Materials/Parts**

Detergent, General Purpose, Mild (WP 0102 00, Item 35)  
 Gasket, Flange (As required) (WP 0102 00, Item 49)  
 Hose Clamp (WP 0102 00, Item 59/60)  
 Rags, Wiping (WP 0102 00, Item 79)  
 Tape, anti-seize (WP 0102 00, Item 88)

**Personnel Required**

Two

**Equipment Condition**

Valves, Hoses, and Tee disconnected.

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**WARNING**

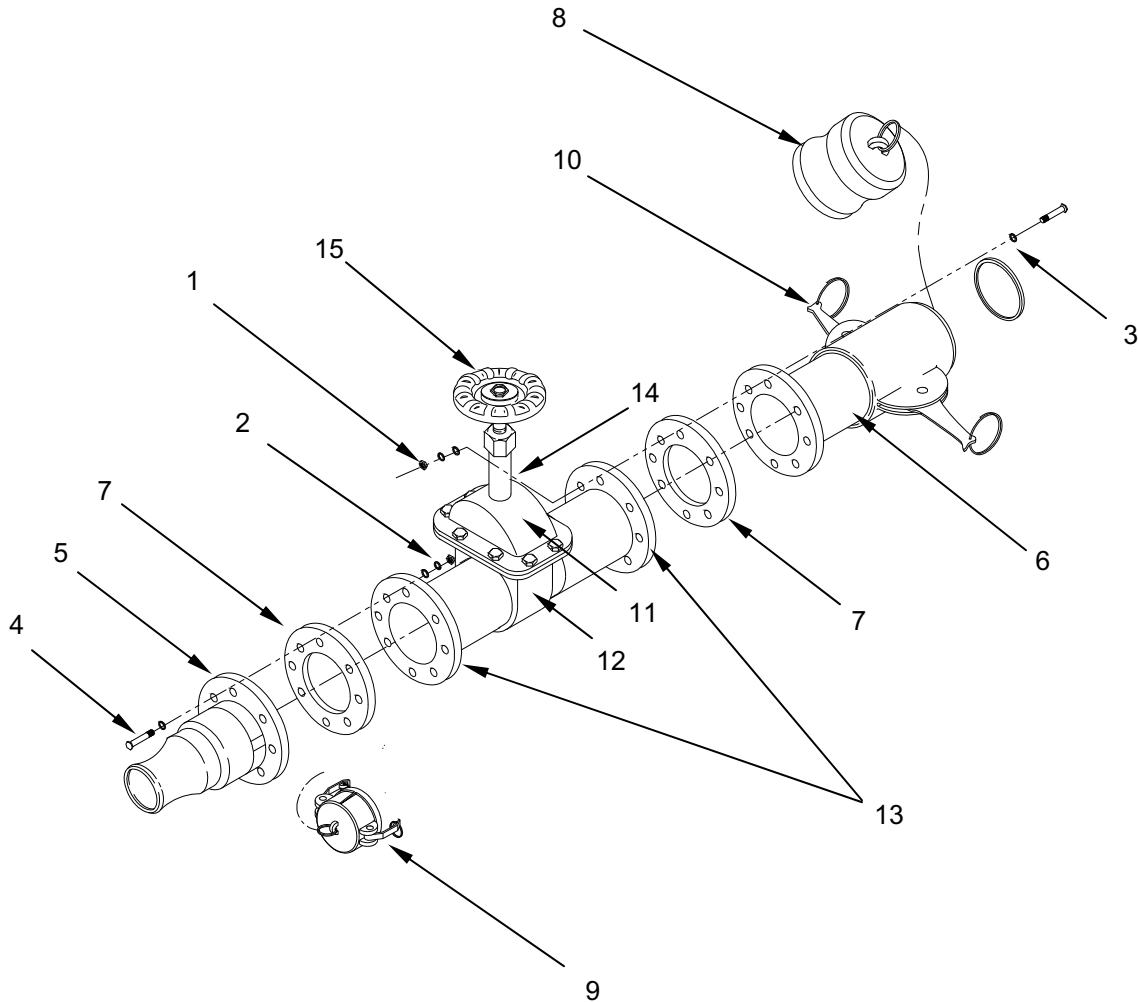
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To prevent contamination of drinking water supplies, ensure that only potable water fittings are used with the potable water subsystem. Use of components from other systems such as bulk fuel, or graywater, with potable water can cause serious health problems.

**INSPECT**

To inspect a 4-inch gate valve, remove it from the distribution line and disassemble it as follows:

1. Remove eight nuts (1), lock washers (2), flat washers (3), and bolts (4).
2. Separate male (5) and female coupling (6).
3. Remove flange gaskets (7).
4. Wash all components with clean water/detergent mixture.
5. Rinse components in clean water and dry with wiping rag.
6. Inspect male coupling (5) and dust plug (8) for cracks and corrosion.
7. Inspect female coupling (6) and dust cap (9) for cracks, corrosion, and damaged locking arms (10).
8. Inspect valve bonnet (11), valve body (12) and flanged couplings (13) for cracks, scored mating surfaces, stripped coupling threads and corrosion.
9. Inspect for bent stem (14) and missing hand wheel (15).
10. Replace any defective component as described under REPLACE in this WP.

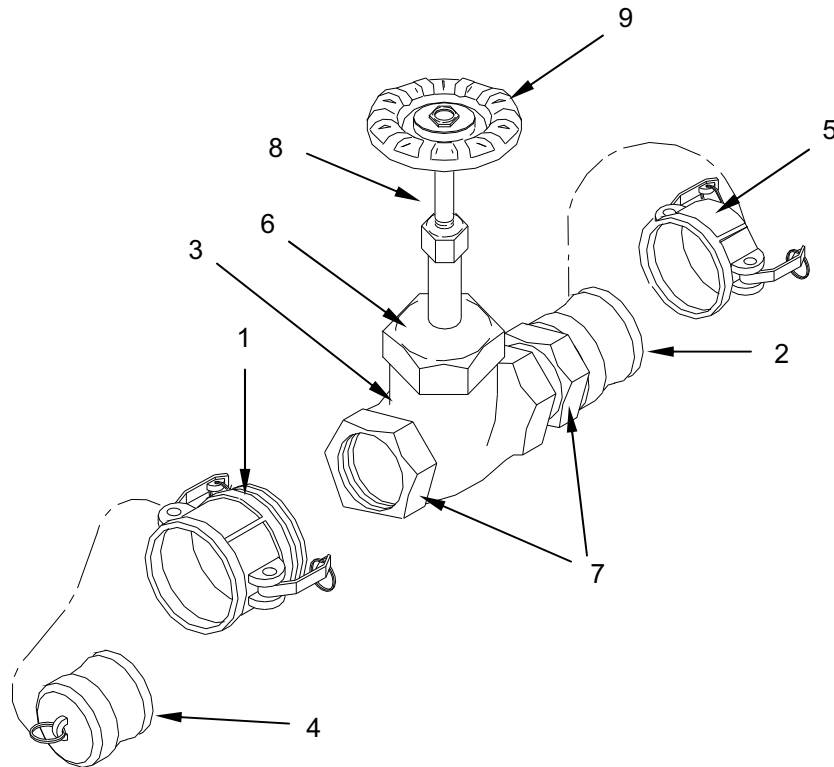


To inspect a 1½ -inch gate valve, removed it from the distribution line and disassemble it as follows:

1. Remove coupling (1) and (2) from valve body (3).
2. Wash all components with clean water/detergent mixture.
3. Rinse components in clean water and dry with wiping rag.
4. Inspect male coupling (2) and dust cap (4) for cracks and corrosion.
5. Inspect female coupling (1) and dust plug (5) for cracks and corrosion; and damaged locking arms.
6. Inspect valve bonnet (6), valve body (3) and flanged couplings (7) for cracks, scored mating surfaces, stripped coupling threads and corrosion.
7. Inspect for bent stem (8) and missing hand wheel (9).



8. Replace any defective component as described under REPLACE in this WP.



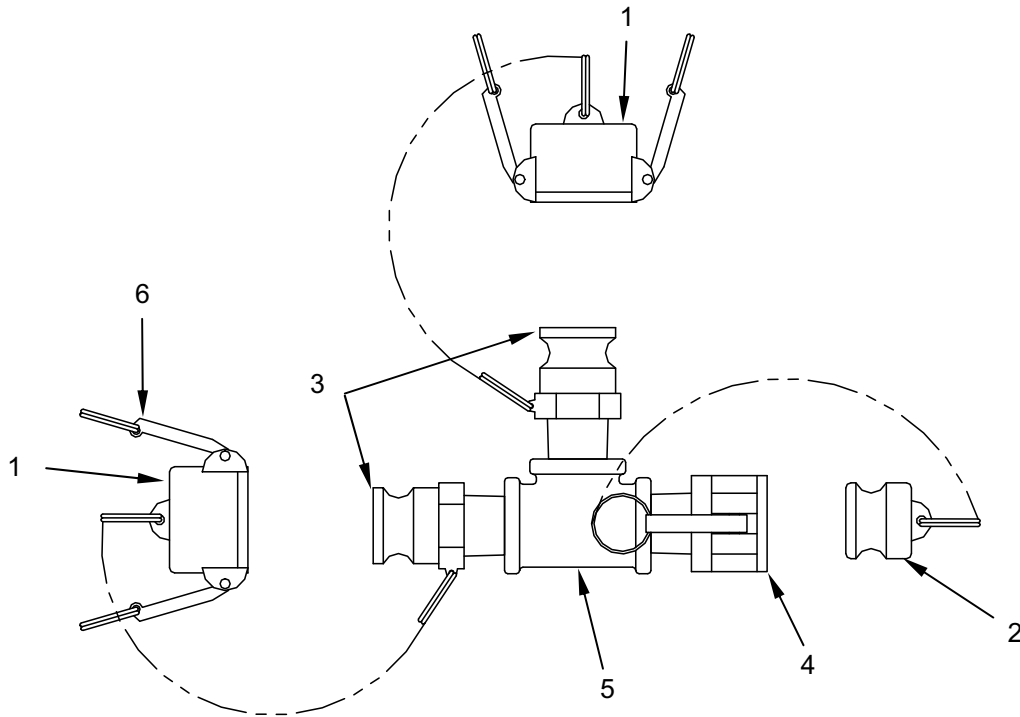
To inspect a Tee, it must be removed from the distribution line and disassembled as follows:

### NOTE

Use these procedures for any Tee or component with QDISC couplings.

1. Remove two dust caps (1) and one dust plug (2) from 1½-inch male couplings (3) and 1½-inch female coupling (4).
2. Separate male (3) and female coupling (4) from 1½-inch straight Tee (5).
3. Wash all components with clean water/detergent mixture.
4. Rinse components in clean water and dry with wiping rag.
5. Inspect male couplings (3) and dust caps (1) for cracks and corrosion.
6. Inspect female coupling (4) and dust plug (2) for cracks, corrosion, and damaged locking arms (6).
7. Check for presence and condition of gasket in dust caps (1) and female coupling (4). (Refer to procedure for inspection of hoses and couplings in this WP.)
8. Inspect straight Tee (5) for corrosion, cracks in the housing and stripped threads.

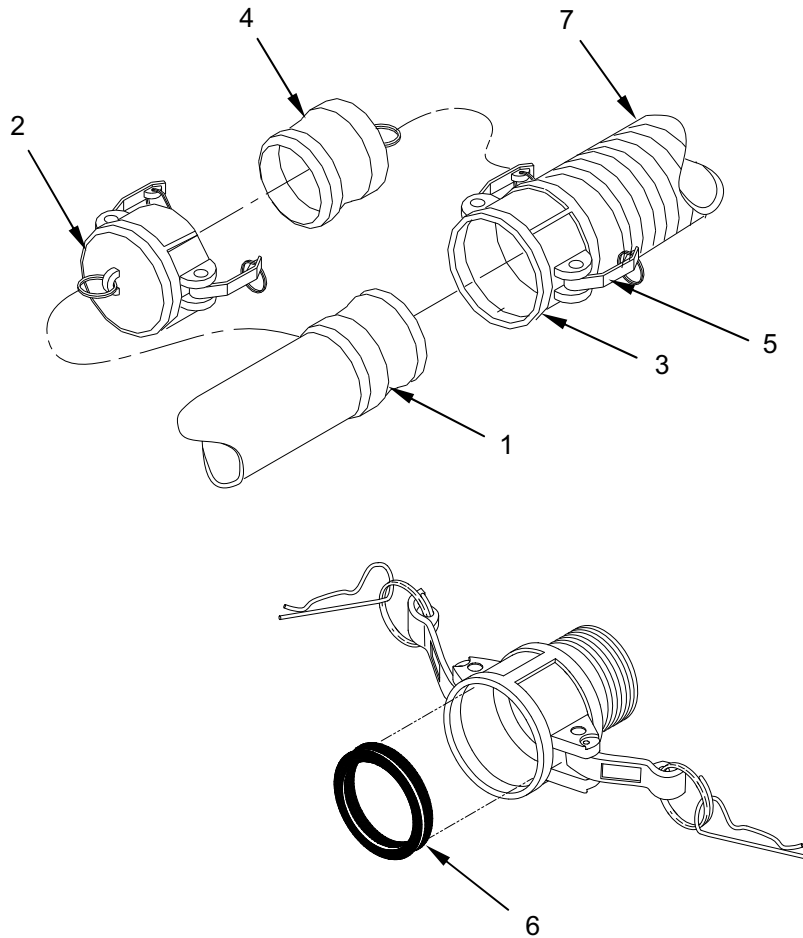
9. Replace any defective component as described under REPLACE in this WP.



To inspect a hose and its couplings, it must be removed from the distribution line. Inspect it as follows:

1. Inspect male coupling (1) and dust cap (2) for cracks and corrosion.
2. Inspect female coupling (3) and dust plug (4) for cracks, corrosion, and damaged locking arms (5).
3. Remove and inspect gasket (6) in female coupling (3) and dust cap (2).
4. Inspect hose (7) for cuts, tears, punctures, and de-lamination.

5. Replace any defective component as described under REPLACE in this WP.

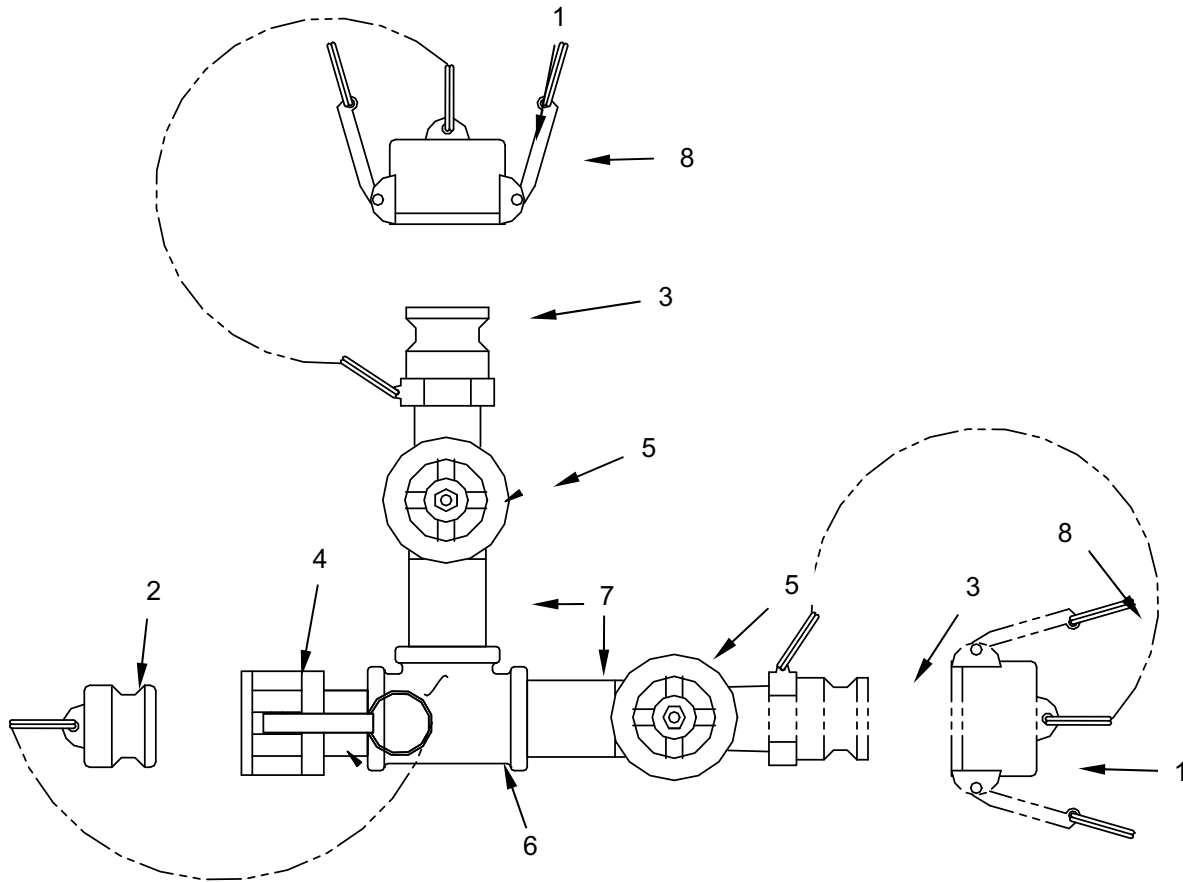


To inspect the 1½ -inch re-circulation Tee assembly, remove it from the distribution line and disassemble it as follows:

1. Remove dust caps (1) and plug (2) from 1½-inch male couplings (3) and 1½-inch female coupling (4).
2. Separate male couplings (3) from 1½-inch gate valves (5).
3. Separate female QD x NPT coupling (4) from 1½-inch straight Tee (6).
4. Separate gate valves (5) from straight Tee (6).
5. Separate 1½-inch x 3-inch brass nipples (7) from gate valves (5).
6. Wash all components with clean water/detergent mixture.
7. Rinse components in clean water and dry with wiping rag.
8. Inspect male couplings (3) and dust caps (1) for cracks and corrosion.
9. Inspect female coupling (4) and dust plug (2) for cracks, corrosion, and damaged locking arms (8).
10. Check for presence and condition of gasket in dust caps (1) and female coupling (4). (Refer to procedure for inspection of hoses and couplings in this WP.)
11. Inspect straight Tee (5) for corrosion, cracks in the brass housing and stripped threads.

12. Inspect gate valves (5) for corrosion, cracks, bent valve stems or broken hand wheels.

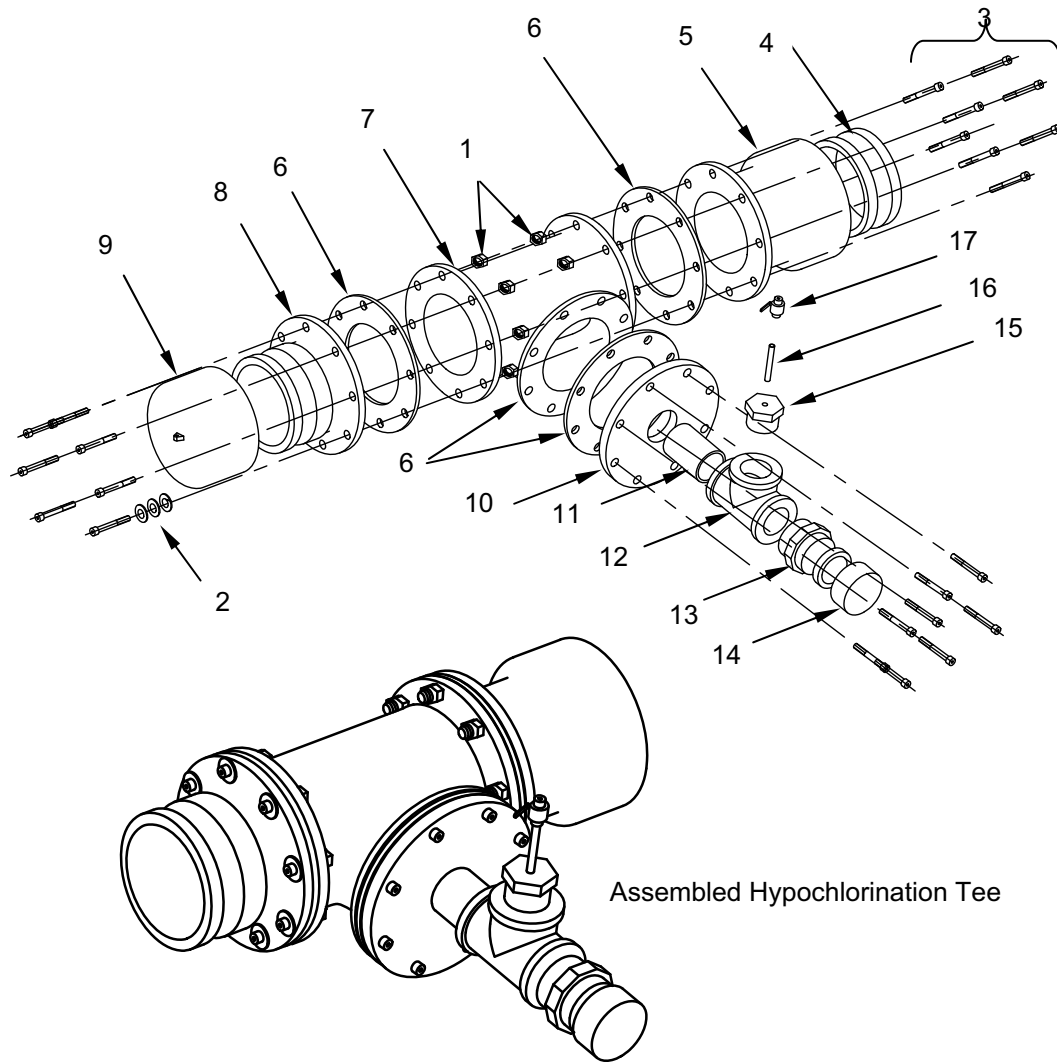
13. Replace any defective component as described under REPLACE in this WP.



To inspect the 1½ -inch hypochlorination Tee assembly, removed it from the fill line and disassemble it as follows:

1. As necessary remove eight nuts (1), washers (2), and bolts (3) from each side of the Tee.
2. Inspect the 4-inch plug (4) flange (5) and gasket (6) for damage, corrosion or excessive wear.
3. Inspect the flanged Tee (7).
4. Inspect the 4-inch cam-lock flange (8) and 4-inch aluminum cap (9)
5. Inspect the hypochlorination conversion plate (10) and 1½-inch brass nipple (11).
6. Inspect the brass Tee (12), 1½-inch aluminum adapter (13) and cap (14).
7. Inspect the 1½-inch x ¼-inch brass bushing (15), brass nipple (16) and ¼-inch brass ball valve (17).

8. Replace any defective component as described under REPLACE in this WP.



Assembled Hypochlorination Tee

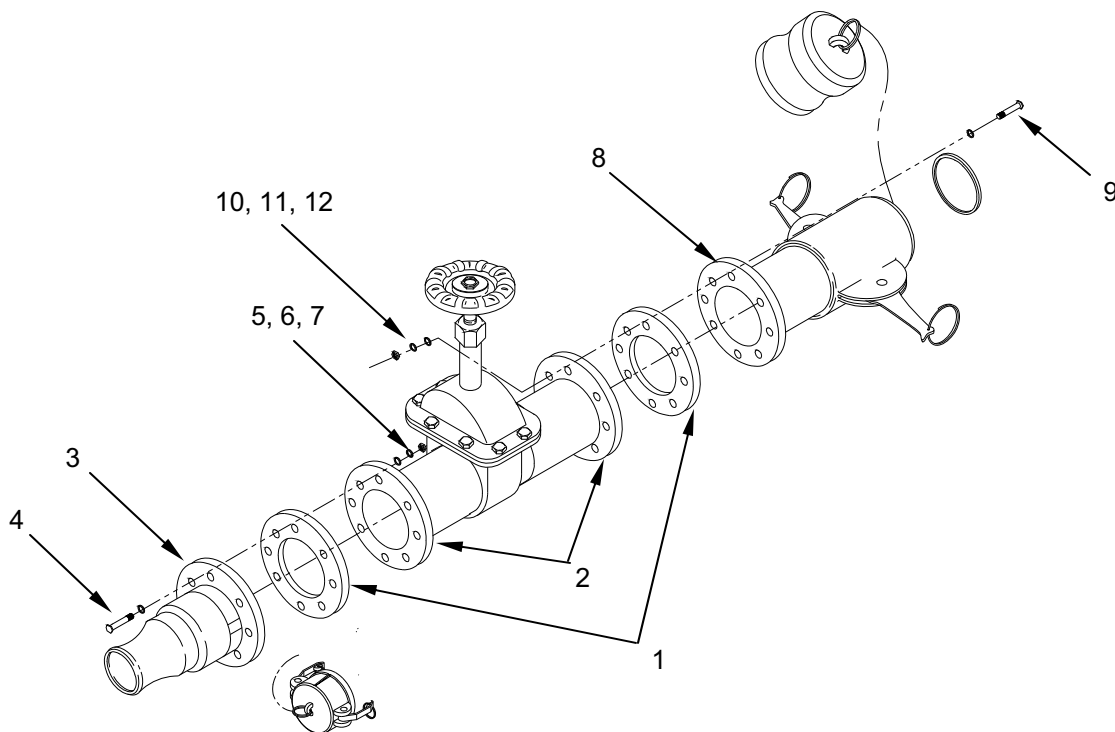
**REPAIR**

Repair a gate valve, Tee, or hose by replacing defective components.

**REPLACE**

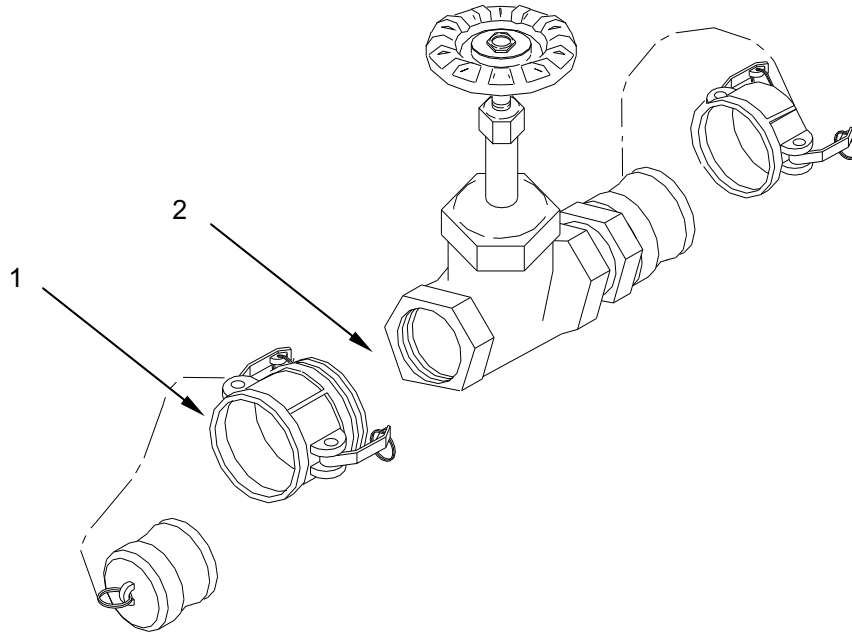
Replace 4-inch gate valve components as follows:

1. Inspect and disassemble the gate valve as described under INSPECT in this WP.
2. Position serviceable gasket (1) on gate valve coupling flange (2), aligning bolt holes.
3. Position male coupling flange (3) on valve coupling flange (2), and with gasket between, align bolt holes.
4. Install eight bolts (4), flat washers (5), lock washers (6) and nuts (7). Tighten all bolts/nuts hand tight.
5. Position female coupling flange (8) on valve coupling flange (2), and with gasket between, align bolt holes.
6. Install eight bolts (9), flat washers (10), lock washers (11) and nuts (12). Tighten all bolts/nuts hand tight.
7. Tighten bolts (4) and (9) two full turns; proceed in a star pattern to remaining seven bolts on each coupling and tightening each down two full turns.
8. Repeat step 6. until all bolts on each coupling are evenly and securely tightened.



Replace 2½ -inch gate valve components as follows:

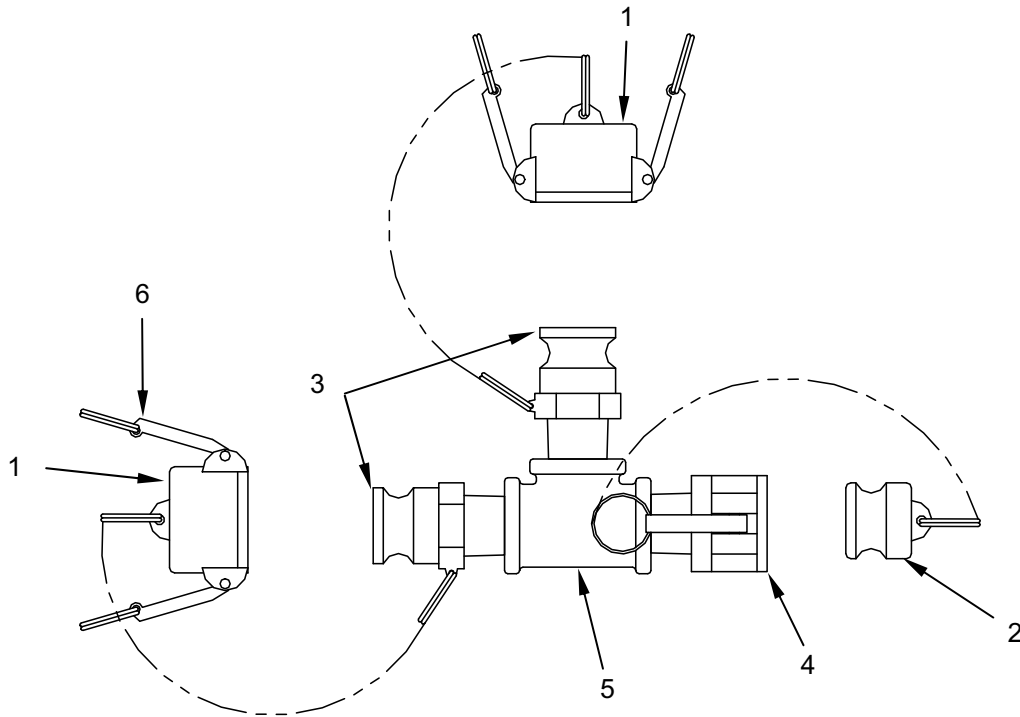
1. Inspect and disassemble the gate valve as described under INSPECT in this WP.
2. Apply anti-seize tape, in counter-clockwise direction, to coupling threads.
3. Screw coupling (1) clockwise into valve body (2), being careful not to cross-thread.
4. Tighten coupling (1) hand tight, plus three full turns.



Replace Tee components as follows:

1. Inspect and disassemble the Tee assembly as described under INSPECT in this WP.
2. Apply ½-inch wide anti-seize tape to threads of the 1½-inch male couplings (1).
3. Install male couplings (1) onto the stem (2) and right arm (3) of the straight Tee (4).
4. Apply ½-inch wide anti-seize tape to threads of the 1½-inch female coupling (5) and install coupling onto the left arm of the straight Tee (4).
5. Ensure serviceable gasket is in position in the dust caps (6) and female coupling (5).

6. Install dust caps (6) onto male couplings (1) and dust plug onto the female coupling (5).

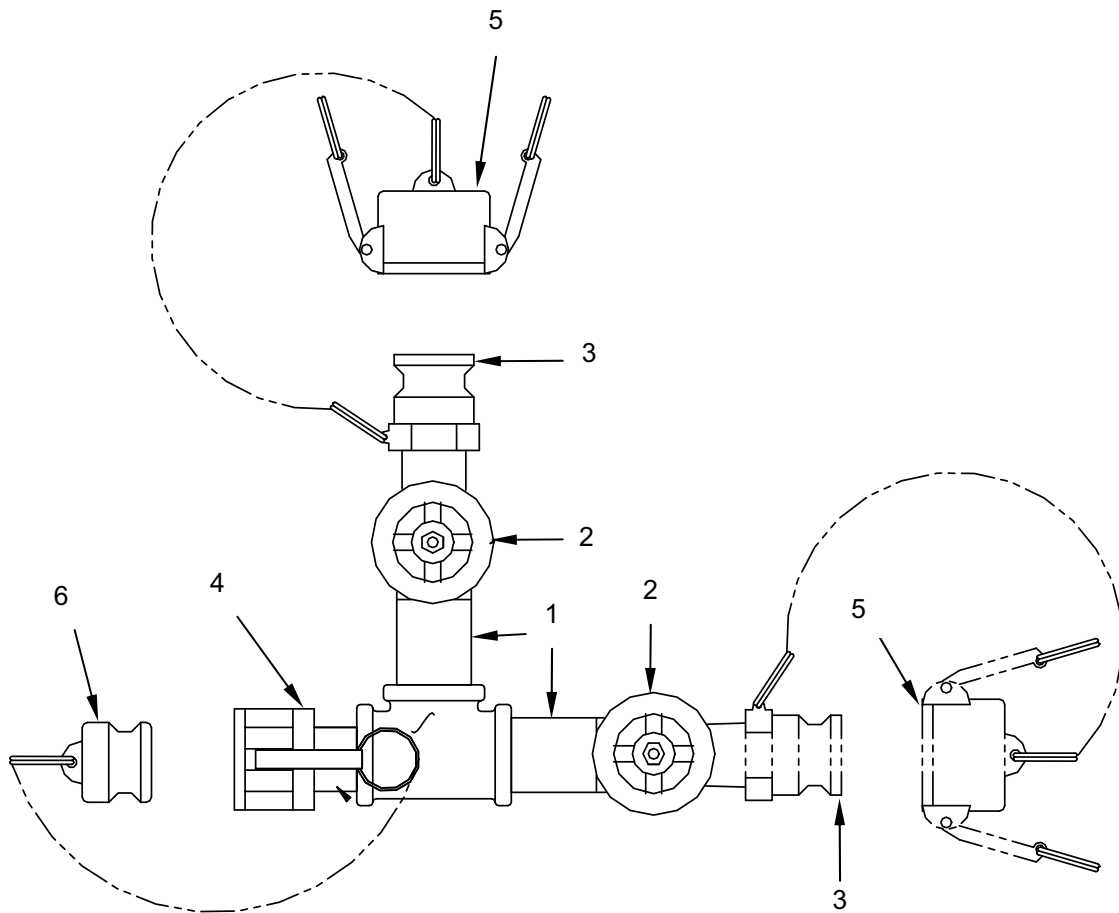


Replace re-circulation Tee assembly components as follows:

1. Inspect and disassemble the re-circulation Tee assembly as described under INSPECT in this WP.
2. Apply ½-inch wide anti-seize tape to the 1½-inch x 3-inch brass nipples (1) and install the nipples onto the 1½-inch gate valves (2).
3. Apply ½-inch wide anti-seize tape to the 1½-inch M QDISC x M NPT couplings (3) and install them onto the 1½-inch gate valves (2).
4. Apply ½-inch wide anti-seize tape to the other end of the 1½-inch x 3-inch brass nipples (1) and install the assembled gate valves (2) onto the stem and left arm of the straight Tee (3)
5. Apply ½-inch wide anti-seize tape to the brass threads of the 1½-inch F QDISC x NPT coupling (4) and install coupling onto the right arm of the straight Tee (3).
6. Ensure serviceable gasket is in position in the dust caps (5) and female coupling (4).



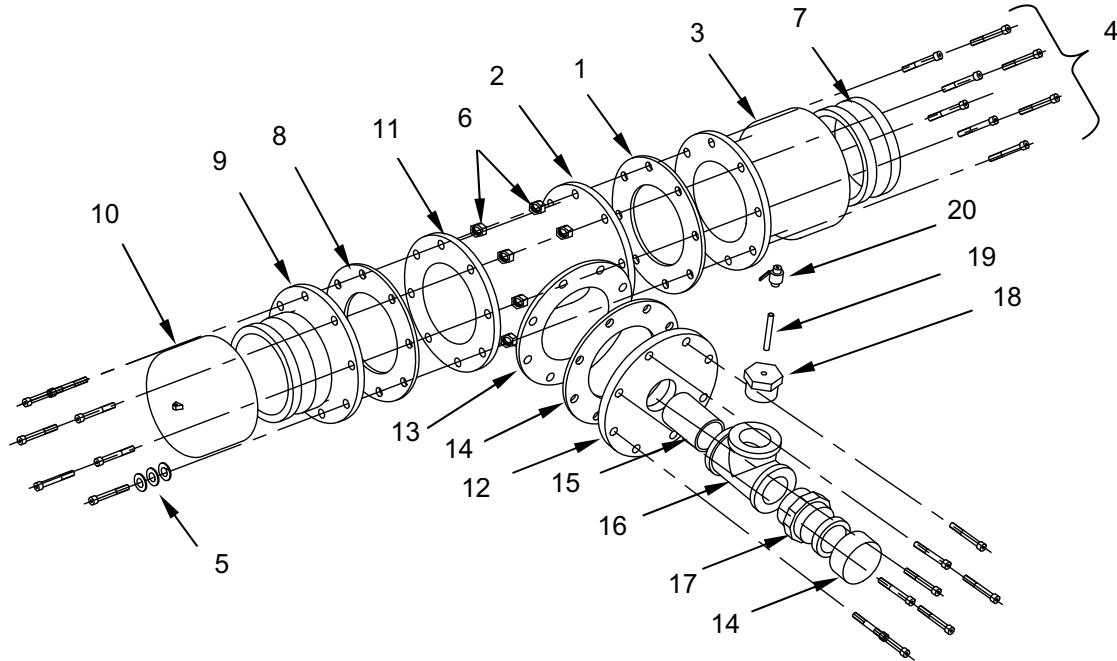
- Install dust caps (5) onto male couplings (1) and dust plug (6) onto the female coupling (4).



Replace hypochlorination Tee components as follows:

- Inspect and disassemble the hypochlorination Tee as described under INSPECT in this WP. When re-assembling, apply anti-seize tape to coupling threads as applicable.
- Position serviceable gasket (1) on Tee flange (2), aligning bolt holes.
- Position the 4-inch aluminum flange (3) onto the gasket (1), aligning bolt holes.
- Install eight bolts (4), flat washers (as shown in 5), and nuts (6). Tighten all bolts/nuts hand tight.
- Install plug (7) onto flange (3).
- Install gasket (8), cam-lock flange (9) and aluminum cap (10) onto the opposite Tee flange (11) in the same manner as described in 2. through 5., above.
- Install the hypochlorination conversion plate (12) onto the Tee stem flange (13), positioning a gasket (14) in between, and aligning the bolt holes.
- Install eight bolts (as shown in 4), flat washers (as shown in 5), and nuts (as shown in 6). Tighten all bolts/nuts hand tight.
- Install the 1½-inch brass nipple (15), Tee (16), and 1½-inch aluminum adapter (17) as shown.
- Install the 1½-inch x ¼-inch brass bushing (18), brass nipple (19), and ¼-inch brass ball valve (20).

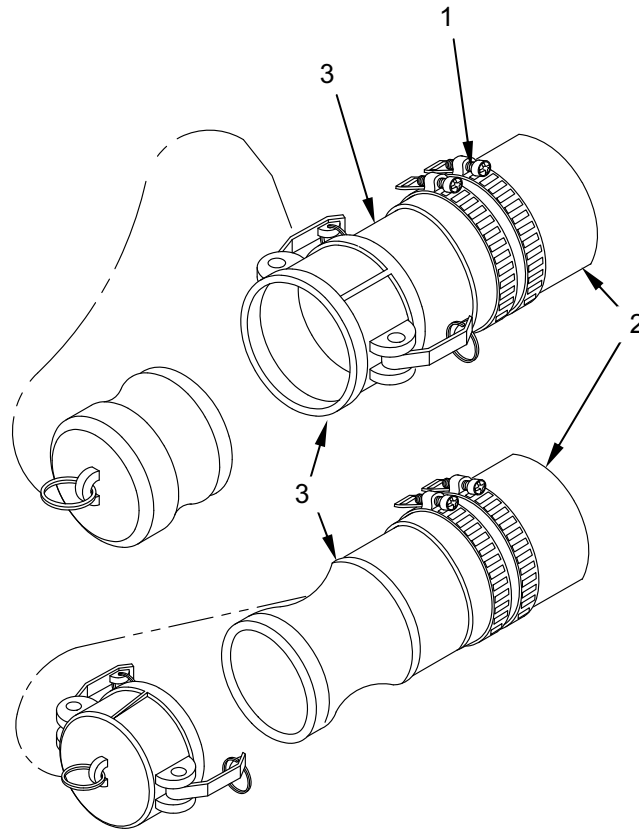
11. Install the 1 ½-inch cap (21) onto the 1½-inch aluminum adapter (17).
12. Tighten one bolt (4) two full turns; proceed in a star pattern with remaining seven bolts on each end of the Tee, tightening each down two full turns. Repeat until all bolts are evenly and securely tightened.



Replace hose components as follows:

1. Inspect hose assembly as described under INSPECT in this WP.
2. Cut clamps (1) from hose (2).

3. Remove coupling (3) from hose (2).





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**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
FORCE PROVIDER FUEL SYSTEM (FPFS)  
INSPECT/REPAIR/REPLACE**

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**INITIAL SETUP:****Tools**

Tool Kit, General Mech. Automotive (WP 0083 00, Item 5)

**Personnel Required**

One

**Materials/Parts**

Rags, Wiping (WP 0102 00, Item 79)  
O-Ring, Filter (WP 0102 00, Item 73)  
Tape, Anti-seize (WP 0102 00, Item 88)  
Absorbent Material (WP 0102 00, Item 1)

**Equipment Condition**

Fuel Pump disconnected from power and fuel. Pump and filters drained of fuel.

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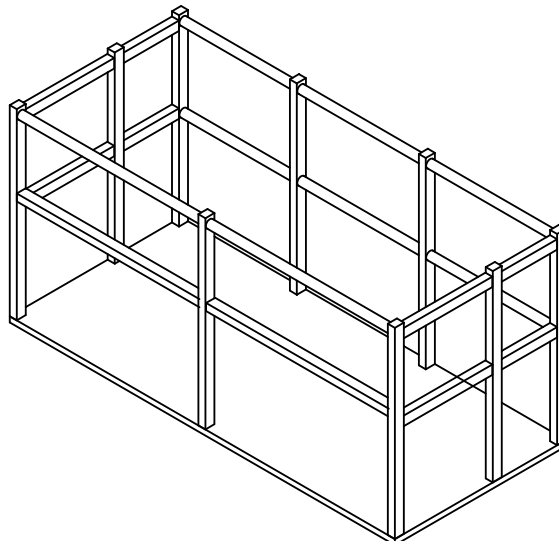
**INSPECT**

Inspect the FPFS for any signs of leakage, physical damage, or missing components. Refer to WP 0059 00 as necessary. Inspect equipment tray components for proper functioning and presence of gaskets.

**REPAIR**

To repair the pump frame, proceed as follows:

1. Dents and bends in the pump frame (1) that do not impede FPFS operation do not require any corrective action.
2. Minor dents, bends and deformations that may affect operation can be hammered out to allow continued operation of the FPFS.
3. The FPFS may be operated in place with breaks in the frame as long as such breaks do not impede the operation of any part of the FPFS and do not impose a safety hazard. However, prior to movement, a broken FPFS frame should be referred to direct support maintenance for welding.



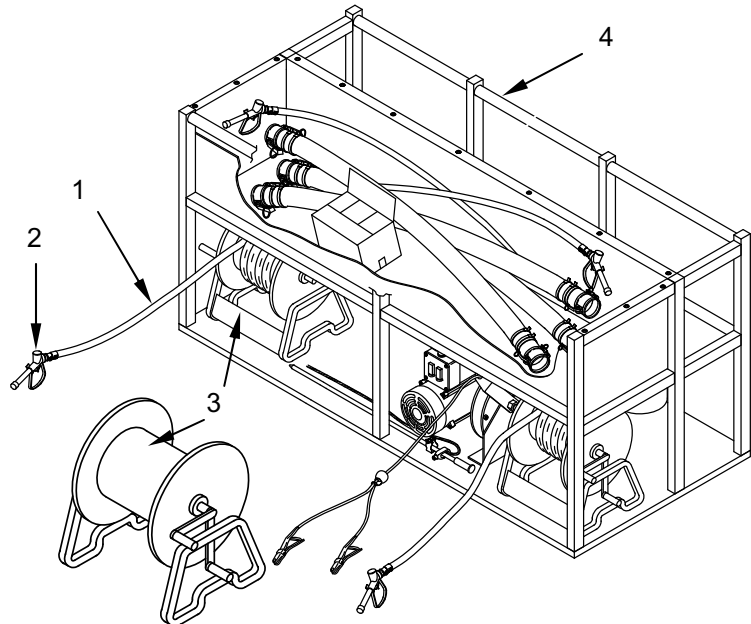
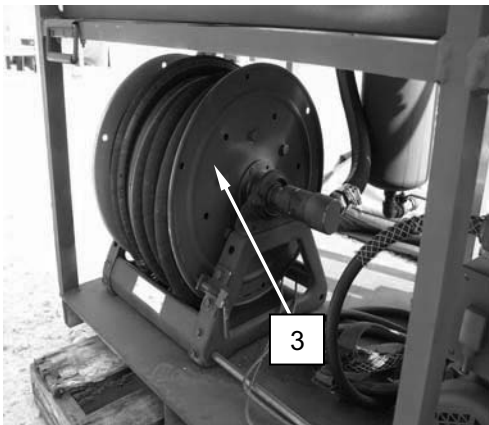
**REPLACE**

Proceed as follows to repair the FPFS by replacing the hose reel assembly:

**WARNING**

Some fuel spillage may occur during this operation. Be prepared to collect residual fuel from hose with a drip pan and absorbent material. Use rags to wipe excess fuel from nozzle, hose and pipe fittings. Failure to observe this warning may result in environmental and equipment contamination, as well as potential fire hazard.

1. Ensure that the FPFS is disconnected from its power source and has been drained of fuel.
2. Reel out the fuel hose (1) to its full length.
3. Remove the hose nozzle (2). Replace if necessary.
4. Identify hose assembly components that require replacement.
5. Remove the hose from the hose reel assembly (3), and replace if necessary.
6. Disconnect the fuel filter hose from the hose reel assembly (3) by removing the hose clamp and working the hose from the hose reel nipple.
7. Remove the four bolts retaining the hose reel assembly (3) to the fuel pump frame (4).
8. Remove the hose reel and replace if necessary.
9. Installation of hose reel components is in reverse order of above.



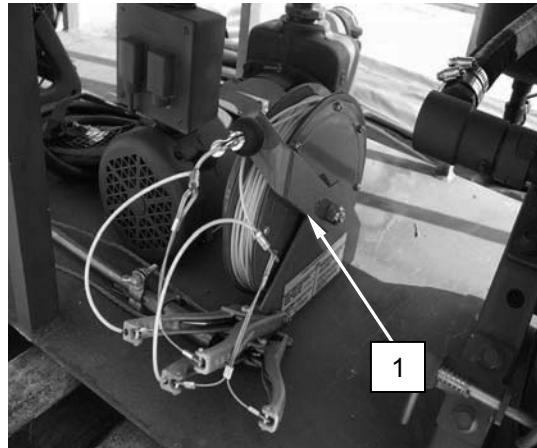
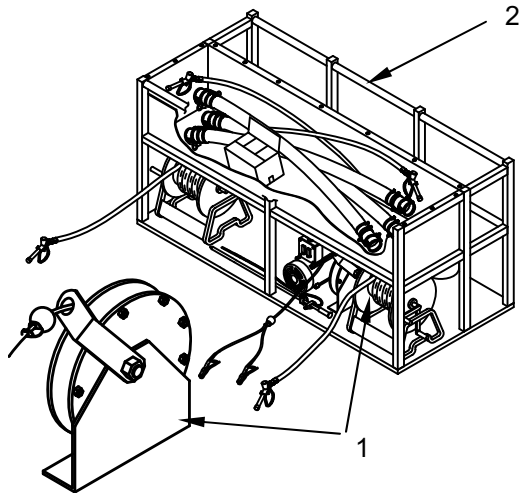
Proceed as follows to repair the FPFS by replacing the ground reel assembly:



### WARNING

Do not operate the FPFS without a serviceable ground reel assembly.

1. Remove the two bolts retaining the ground reel assembly (1) to the fuel pump frame (2).
2. Remove the unserviceable ground reel.
3. Install the replacement reel, and secure the reel to the frame with the two retaining bolts.



Proceed as follows to repair the FPFS by replacing the fuel filter assembly:



### WARNING

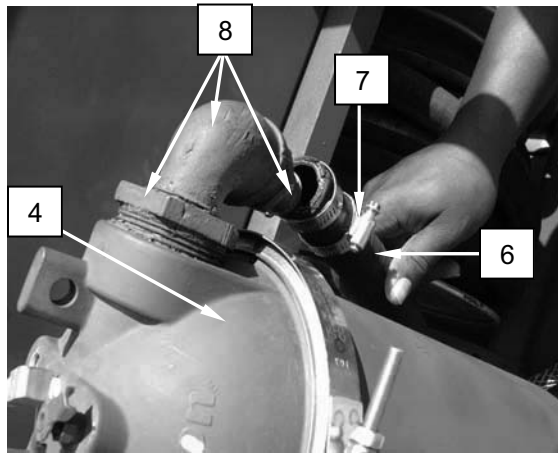
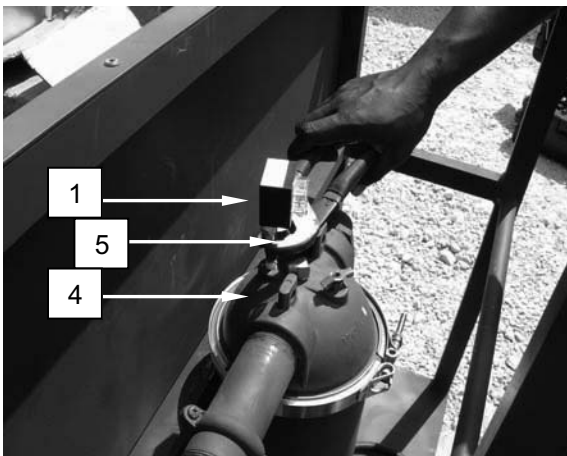
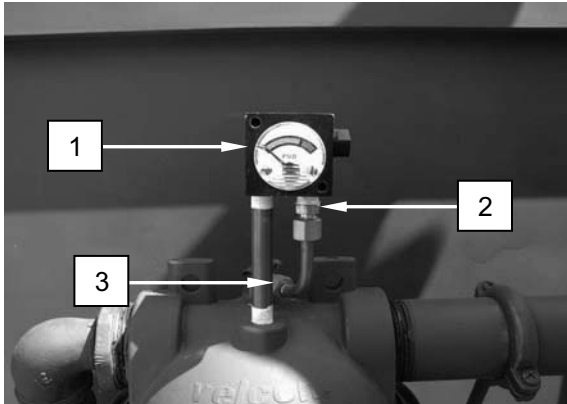
Some fuel spillage may occur during this operation. Be prepared to collect residual fuel from hose with a drip pan and absorbent material. Use rags to wipe excess fuel from hose and pipe fittings. Failure to observe this warning may result in environmental and equipment contamination, as well as potential fire hazard.

### NOTE

Drain fuel from filter to be replaced by opening the drain valve at the bottom of the filter. Catch any fuel draining into a vessel for proper disposal.

1. Using two wrenches, remove the filter pressure gauge (1) by disconnecting the compression fitting (2) on the gauge, and removing the fuel filter pressure gauge compression fitting (3) from the fuel filter housing (4).
2. Unscrewing the  $\frac{1}{8}$ -inch NPT nipple (5) with gauge (1) from the filter housing (4).
3. Disconnect the fuel filter hose (6) from the fuel filter hose nipple by loosening the hose clamp (7) and working the hose free from the hose nipple.

4. Use a pipe wrench to remove the fuel filter hose nipple, street elbow, and bushing as a assembly (8) from the fuel filter housing (4). Use a second pipe wrench to prevent the fuel filter housing from turning.

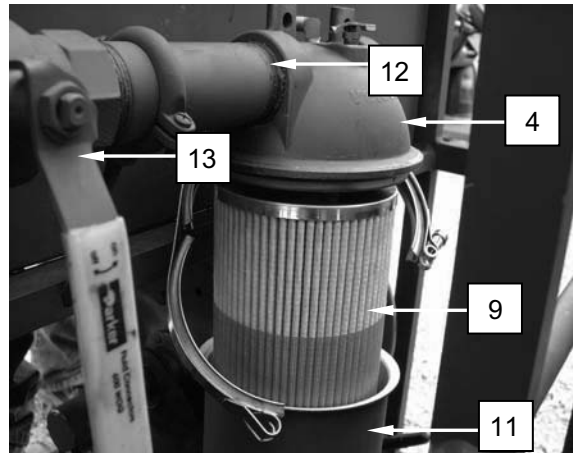
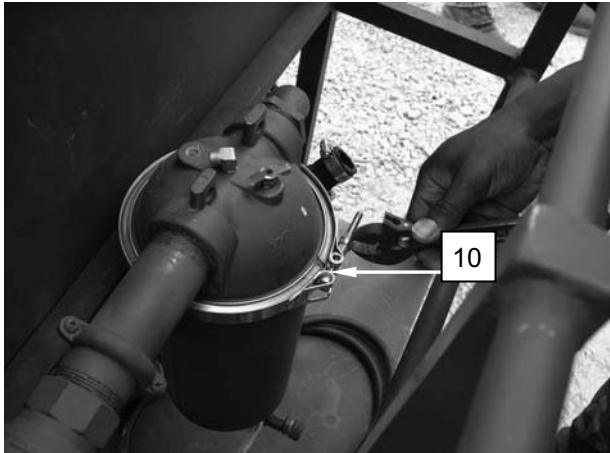


### NOTE

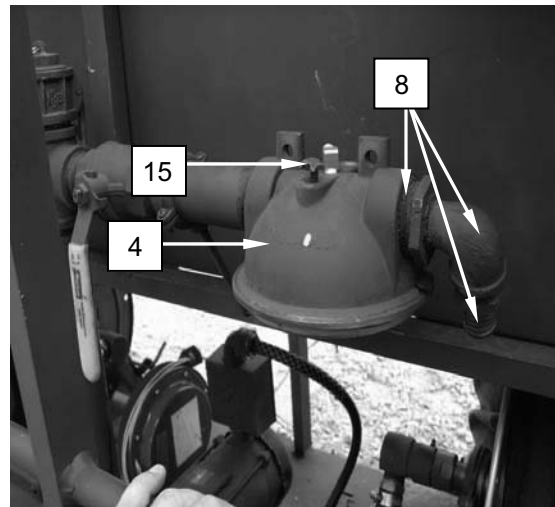
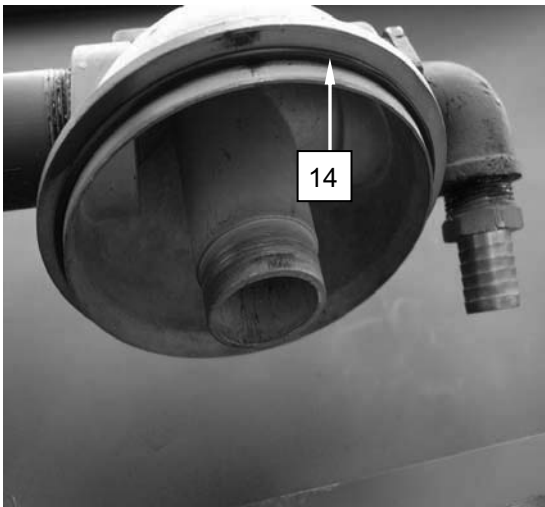
Support the fuel filter can when performing this procedure.

5. Remove the fuel filter (9) from the fuel filter housing (4) by loosening the clamp (10) and pulling the filter can (11) and filter (9) free from the filter housing (4).
6. Use a pipe wrench to unscrew the filter housing (4) from the fuel manifold (12). Use a second pipe wrench to prevent the manifold nipple and valve (13) from turning.
7. Clean the fuel manifold nipple thoroughly and coat the threads with pipe sealant. If pipe sealant is not available, wrap at least three turns of antiseize tape clockwise around the threads.
8. Disassemble the replacement filter assembly by removing the fuel filter and filter can from the housing as in step 5. above.
9. Steady the manifold (12) with a pipe wrench, and thread the replacement filter housing (4) onto the nipple. Ensure that the housing is both aligned correctly and is tight (approximately 4 to 6 turns).
10. Install the fuel filter O-ring (14), fuel filter (9), and fuel filter can (11), and retain with the clamp (10). Tighten the fuel filter clamp.



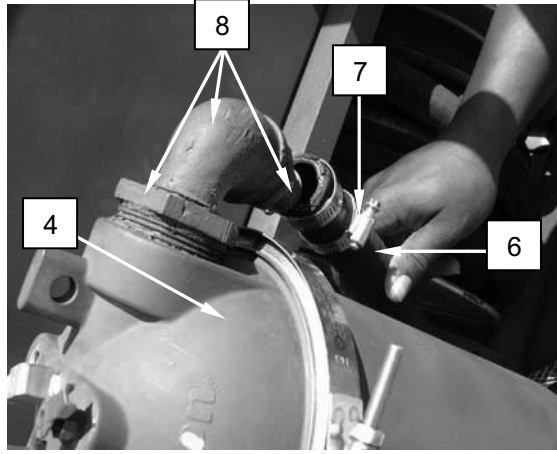
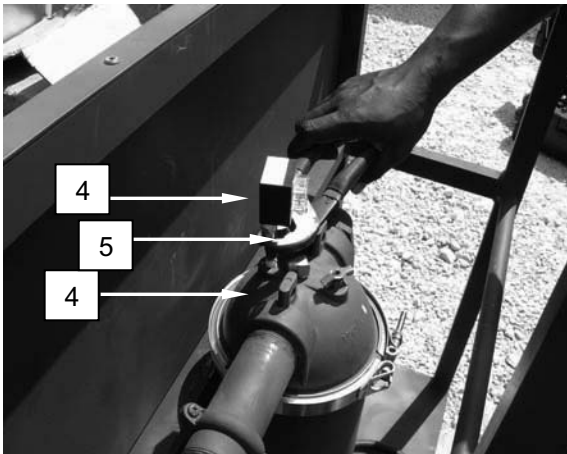
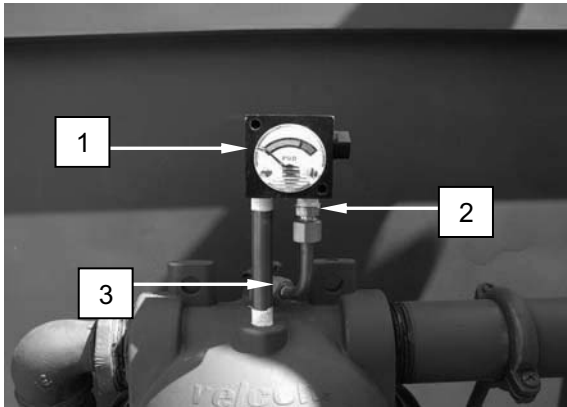


11. Clean the threads on the fuel filter hose bushing (8), and coat with pipe sealant. If pipe sealant is not available, wrap at least three turns of antiseize tape clockwise around the threads.
12. Steady the fuel filter housing (4) with a pipe wrench, and thread the fuel filter hose bushing, street elbow, and hose nipple (8) into the fuel filter housing (4) as an assembly. Ensure that the elbow is correctly aligned and is tight (approximately 3 to 6 turns).



13. Connect the fuel filter hose (6) to the fuel filter hose nipple and retain with the hose clamp (7).
14. Clean the threads on the fuel pressure gauge compression fitting (1) and the fuel pressure gauge  $\frac{1}{8}$  - inch NPT nipple. Wrap at least three turns of antiseize tape clockwise around the threads.
15. Remove the pipe plugs (15) in the fuel filter housing (4) to allow installation of the fuel pressure gauge (1) components.
16. Install the fuel filter pressure gauge (1) compression fitting. Ensure that the fitting is correctly aligned and is tight (approximately 3 to 6 turns).
17. Install the fuel filter pressure gauge (1) and nipple as an assembly onto the fuel filter housing (2). Ensure that the gauge is correctly aligned and tight (approximately 3 to 5 turns).
18. Loosen the compression fitting nut on the fuel pressure gauge (1) compression fitting.

19. Install the fuel pressure gauge compression nut on the fuel pressure gauge (1).
20. Tighten the compression nut at the fuel pressure gauge (1), then at the fuel pressure gauge compression fitting.



21. Place the pump into operation and inspect for leakage.



**WARNING**

Shut down the FPFS and disconnect the pump from its power and fuel supplies before attempting to correct any leakage.

**NOTE**

Leaks at the compression fittings may be stopped by tightening in place. The filter clamp may be tightened in place as well. Leakage at other points in the fuel filter assembly may require disassembly to allow tightening of pipe fittings.

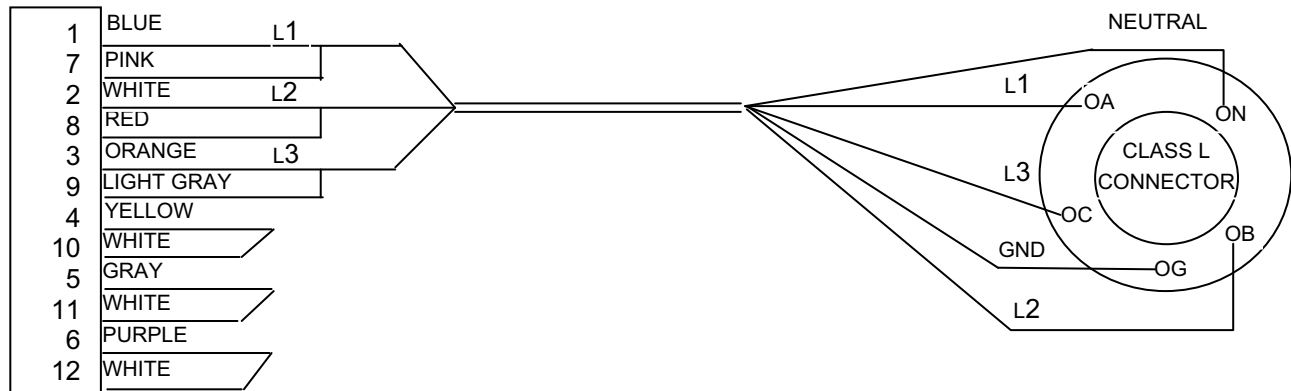
Proceed as follows to repair the FPFS by replacing the power cord:



**WARNING**

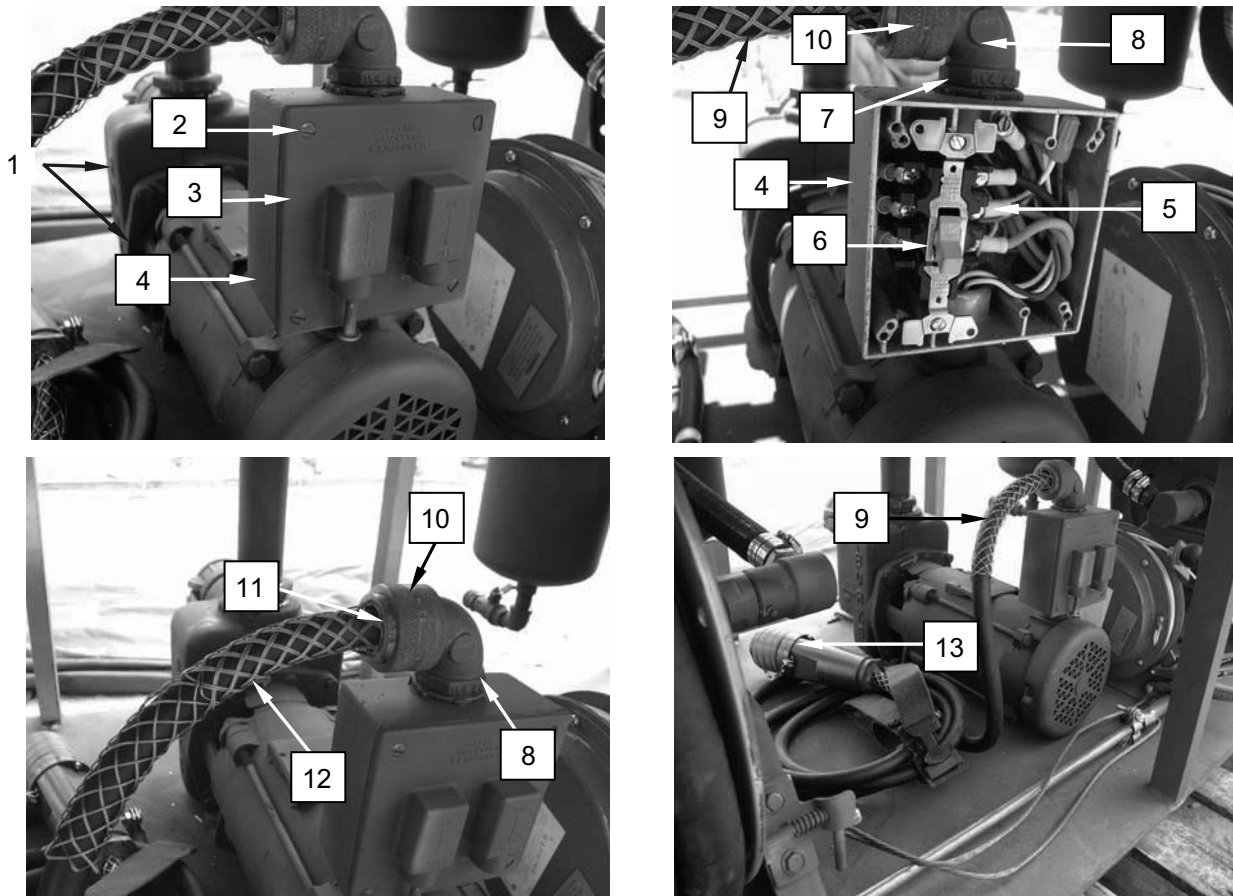
Some fuel spillage may occur during this operation. Be prepared to collect residual fuel from hose with a drip pan and absorbent material. Use rags to wipe excess fuel from hose and pipe fittings. Failure to observe this warning may result in environmental and equipment contamination, as well as potential fire hazard.

1. Disconnect the FPFS pump and motor (1) from its power and fuel supplies.
2. Remove four screws (2) retaining the pump switch plate (3) to the switch box (4). Remove plate (3).
3. Tag (use a connection sketch, if possible) and disconnect the wiring (5) from the switch (6).
4. Loosen the locking nut (7) from the conduit elbow (8).
5. Pull the power cord (9) out of the switch box (4).
6. Loosen the knurled conduit locking nut (10), and remove the conduit elbow (8), rubber bushing (11) and strain relieve (12) from the power cord.
7. If Class L Connector (13) is to be re-used, remove it from power cord as described in TM 9-6150-226-13.
8. Prepare new, 10-foot long power cord (9). Use removed power cord as guide to crimp connectors.
9. Install removed, or new Class L Connector (13) onto new power cord as described in TM 9-6150-226-13 using diagram below to make connections.



**FPFS Power Cord Wiring Diagram.**

10. Install knurled locking nut (10) the strain relieve (12), rubber bushing (11) on new power cord (9).
11. Feed power cord wires (5) through conduit elbow (8) and into switch box (4).
12. Secure power cord (9) to elbow (8) with knurled locking nut (10).
13. Place elbow (8) into position on switch box (4) and secure with locking nut (7).
14. Connect the wiring (5) to the switch (6).
15. Install the pump switch plate (3). Ensure the gasket is serviceable and in place.
16. Reconnect Class L connector (13) on power cord (9) to power source and fuel supply hose to pump.



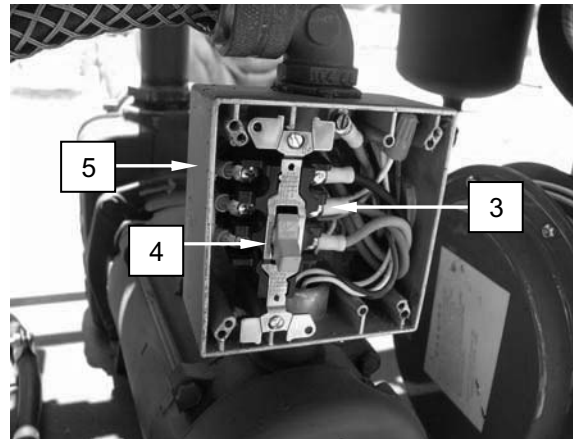
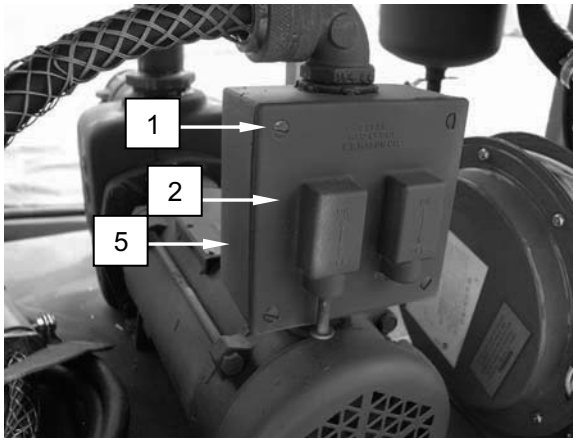
Proceed as follows to repair the FPFS by replacing the pump switch:



### **WARNING**

Some fuel spillage may occur during this operation. Be prepared to collect residual fuel from hose with a drip pan and absorbent material. Use rags to wipe excess fuel from hose and pipe fittings. Failure to observe this warning may result in environmental and equipment contamination, as well as potential fire hazard.

1. Disconnect the FPFS fuel pump from its power and fuel supplies.
2. Remove the four screws (1) retaining the switch plate (2).
3. Tag (use a connection sketch, if possible) and disconnect the wiring (3) from the switch (4).
4. Remove the switch (4) from the housing (5).
5. Install the replacement switch (4) in the housing (5).
6. Connect the wiring (3) to the switch (4). Refer to any diagrams you may have made, if necessary.
7. Install the pump switch plate (2) and secure with four retaining screws (1).



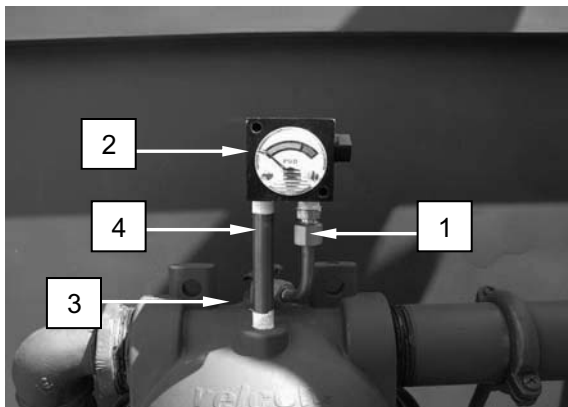
Proceed as follows to repair the FPFS by replacing the pump assembly:



### WARNING

Some fuel spillage may occur during this operation. Be prepared to collect residual fuel from hose with a drip pan and absorbent material. Use rags to wipe excess fuel from hose and pipe fittings. Failure to observe this warning may result in environmental and equipment contamination, as well as potential fire hazard.

1. Disconnect the FPFS fuel pump from its power and fuel supplies and drain both filters.
2. Disconnect the compression fitting (1) on the pressure gauge (2).
3. Remove the compression fitting (1) from the filter housing (3).
4. Unscrew the  $\frac{1}{8}$ -inch NPT nipple (4) with gauge (2) from the filter housing (3).



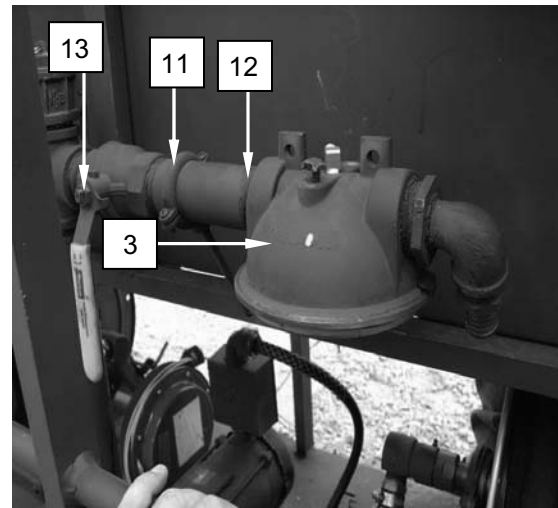
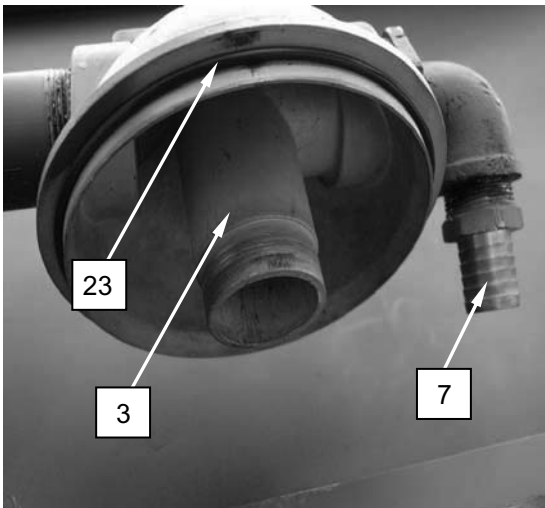
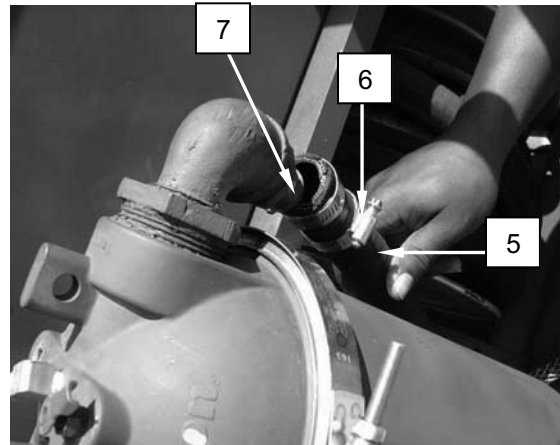
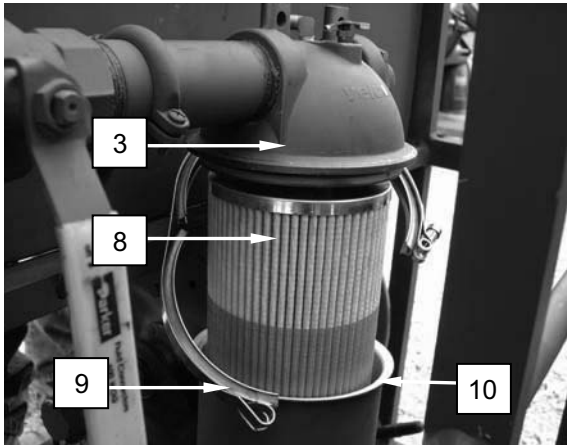
5. Disconnect the fuel filter hose (5) from the fuel filter by loosening the hose clamp (6) and working the hose free from the hose nipple (7).

### NOTE

Support the fuel filter can when performing this procedure.

6. Remove the fuel filter (8) from the fuel filter housing (3) by loosening the clamp (9) and pulling the filter can (10) and filter (8) free from the filter housing (3).

7. Remove the pipe clamp (11) securing the fuel manifold pipe to the frame.
8. Use a pipe wrench to unscrew the filter housing (3) from the fuel manifold nipple (12). Use a second pipe wrench to prevent the manifold nipple (12) and ball valve (13) from turning.

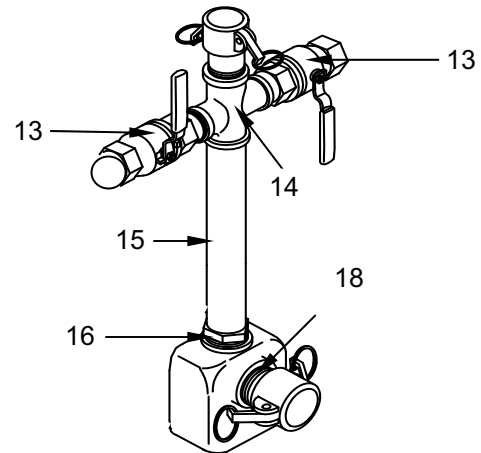
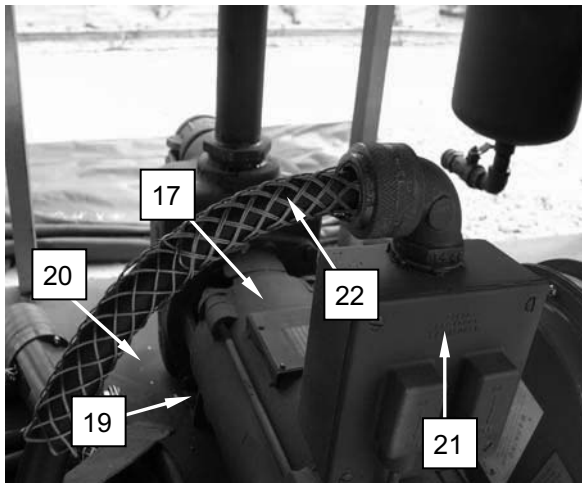
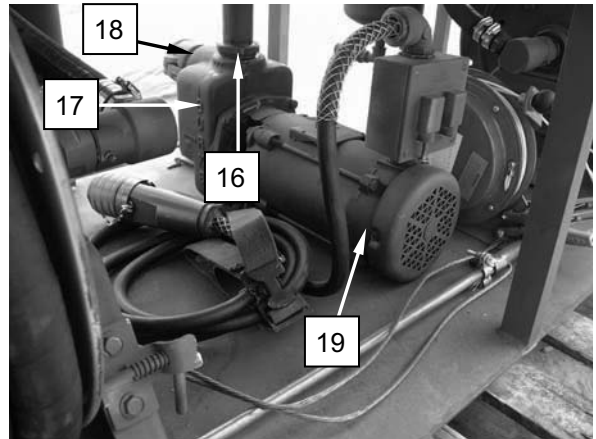
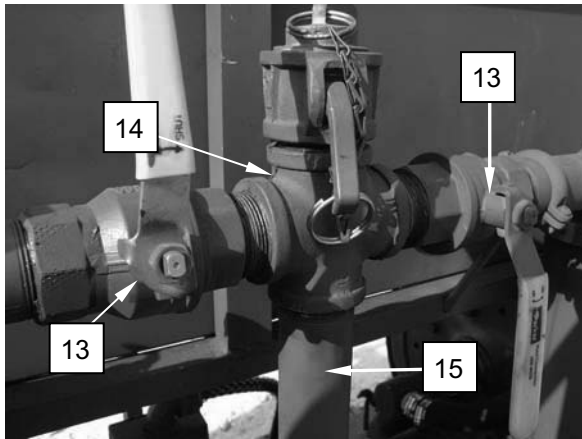


9. Repeat steps 2 through 8 above to remove the second filter assembly.

### NOTE

Place the ball valve handle in the open position to minimize interference during removal.

10. Use a pipe wrench to steady the manifold cross fitting (14), and unscrew the ball valve (13) from the cross.
11. Use a pipe wrench to remove the manifold cross (14), pipe (15), and bushing (16) from the pump (17) as an assembly.
12. Use a pipe wrench to remove the QDISC fitting (18) from the pump (17).



13. Remove the four bolts (19) retaining the pump assembly (17) to the pump frame (20).
14. Remove the pump (17), switch (21), and cable (22) as an assembly.
15. Remove the switch (21) and cable (22) from the pump (17) and install on the replacement pump.
16. Remove any pipe plugs, if fitted, from the replacement pump housing.
17. Install the replacement pump assembly (17) in the pump frame (20), with four bolts (19).
18. Clean the threads on the QDC fitting (18) and coat with pipe sealant. If pipe sealant is not available, wrap at least three turns of antiseize tape clockwise around the threads.
19. Install the QDC fitting (18) in the inlet opening in the pump housing (17). Tighten approximately 3 to 5 turns.
20. Clean the threads on the bushing of the assembled manifold cross (14), pipe (15), and bushing (16) and coat with pipe sealant. If pipe sealant is not available, wrap at least three turns of antiseize tape clockwise around the threads.
21. Install the assembled manifold cross (14) pipe (15), and bushing (16) in the discharge opening in the pump housing (5). Ensure the cross is correctly aligned to facilitate installation of the filters, and is tight (approximately 3 to 6 turns).
22. Clean the threads on the ball valve (13) and coat with pipe sealant. If pipe sealant is not available, wrap at least three turns of antiseize tape clockwise around the threads.

**NOTE**

Place the ball valve handle in the open position to minimize interference during installation.

23. Install the ball valve (13) in the manifold cross (14). Ensure that the ball valve is correctly aligned, and is tight (approximately 3 to 5 turns).
24. Clean the threads on the manifold nipple (12) connecting the ball valve (13) to the filter housing (3), and coat the threads with pipe sealant. If pipe sealant is not available, wrap at least three turns of antiseize tape clockwise around the threads.
25. Steady the manifold nipple (12) with a pipe wrench, and thread the filter housing (3) onto the nipple. Ensure that the filter housing is aligned correctly and is tight (approximately 4 to 6 turns).
26. Install a new fuel filter O-ring (23), fuel filter (8), and fuel filter can (10), if necessary, and retain with the clamp (9). Tighten the fuel filter clamp.
27. Connect the fuel filter hose (5) to the fuel filter hose nipple (7) and retain with the hose clamp (6).
28. Clean the threads on the fuel pressure gauge compression fitting (1) and the fuel pressure gauge  $\frac{1}{8}$  inch NPT nipple (4). Wrap at least three turns of antiseize tape clockwise around the threads.
29. Install the fuel filter pressure gauge compression fitting (1). Ensure that the fitting is correctly aligned and is tight (approximately 3 to 6 turns).
30. Install the fuel filter pressure gauge (2) and nipple (4) as an assembly onto the fuel filter housing (3). Ensure that the gauge is correctly aligned and is tight (approximately 3 to 5 turns).
31. Loosen the compression fitting nut on the fuel pressure gauge compression fitting (1).
32. Install the fuel pressure gauge compression nut on the fuel pressure gauge (2).
33. Tighten the compression nut at the fuel pressure gauge (2), then at the fuel pressure gauge compression fitting (1).
34. Repeat steps 22 through 33 for the remaining ball valve and filter.

**WARNING**

Shut down the PFPS and disconnect the pump from its power and fuel supplies before attempting to correct any leakage. Fuel under pressure presents a severe risk of fire.

**NOTE**

Leaks at the compression fittings may be stopped by tightening in place. The filter clamp may be tightened in place as well. Leakage at other points in the fuel filter assembly and pump assembly may require disassembly in order to facilitate tightening of pipe fittings.

35. Place the pump into operation and inspect for leakage.

**END OF WORK PACKAGE**



**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
FUEL DISTRIBUTION KIT EQUIPMENT  
INSPECT/REPLACE**

**INITIAL SETUP:****Tools**

Tool Kit, General Mech. Automotive (WP 0083 00, Item 5)  
Tool Kit, Plumber's (WP 0083 00, Item 7)  
Wrench, Open-end,  $\frac{9}{16}$ -in (WP 0083 00, Item 12)

**Materials/Parts**

Detergent, General Purpose, Mild (WP 0098 00, Item 35)  
Gasket, Flange 4-inch (WP 0102 00, Item 49)  
Rags, Wiping (WP 0102 00, Item 79)  
Hose Clamp (WP 0102 00, Item 59)

**Personnel Required**

One

**Equipment Condition**

Fuel Distribution Kit Equipment disconnected.



**WARNING**



Avoid fuel spills. Ensure that components are thoroughly wiped clean of residual fuel, and that you don protective clothing, before performing any maintenance actions. Skin contact with fuel may cause health problems.

Refer to TM 10-5430-242-12&P to inspect, repair and replace equipment furnished as part of the 10,000-Gallon Collapsible Fuel Tanks.

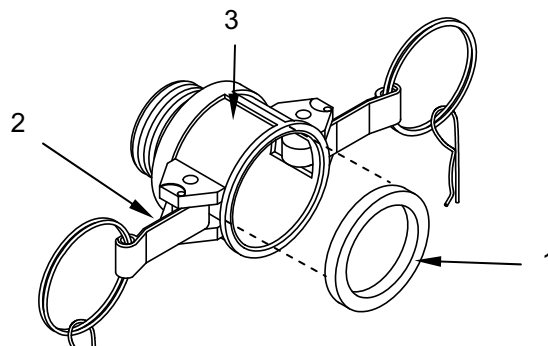
**INSPECT**

Inspect fuel distribution kit equipment, including hoses and couplings for damage, missing or deteriorated gaskets, broken, missing, or inoperative locking arms and missing hose clamps.

**REPLACE**

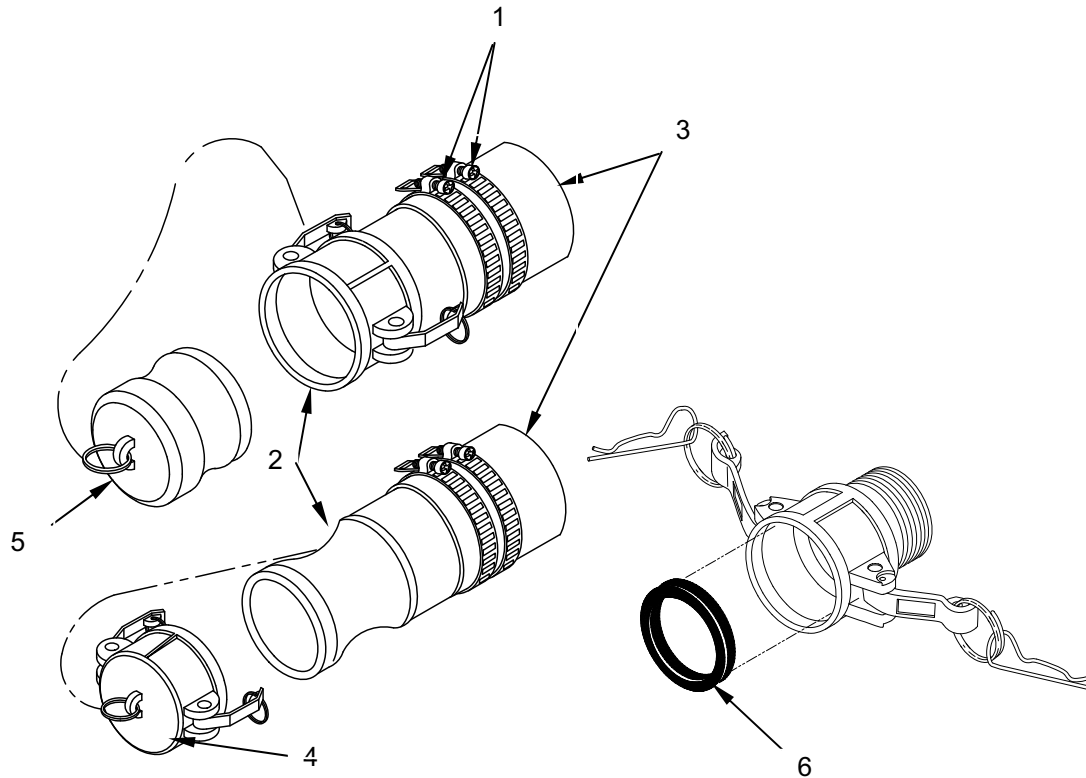
Replace 1½-inch x 2-inch EPT Coupling (used with MSPP) components as follows:

1. Replace gasket (1) as required.
2. If locking arms (2) are bent or won't move, replace entire coupling (3).



Replace hose components as follows:

1. Loosen hose clamps (1).
2. Remove unserviceable coupling (2) from hose (3).
3. Remove hose clamps (1) from hose (3).



4. Clean end of hose (3) with a rag and remove any frayed material and dirt.
5. Obtain new hose clamps (1) and slide them over hose (3) end.
6. Insert serviceable coupling (2) into hose (3).

### WARNING

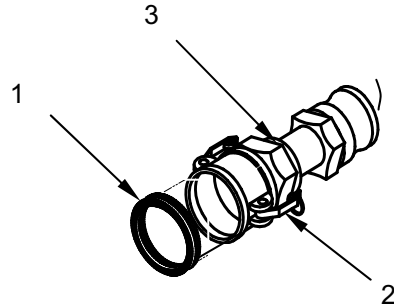


Do not over-tighten hose clamps. Band may snap, causing injury.

7. Position hose clamps (1) over the sleeve of the coupling (2). Tighten hose clamps (1).
8. Install cap (4) or plug (5) couplings as necessary.
9. Replace gasket (6) in female coupling as required.

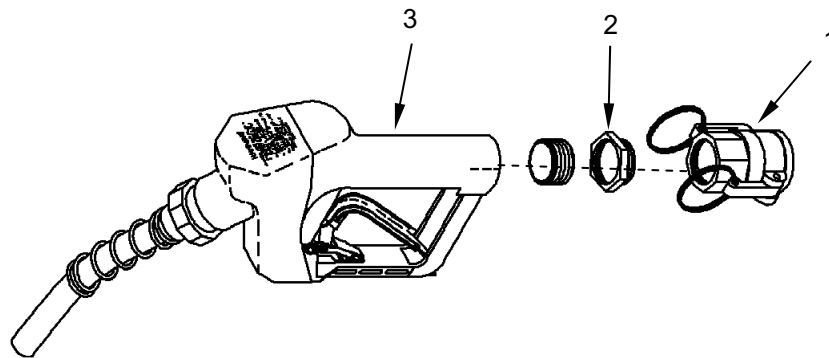
Replace reducer components as follows:

1. Replace gasket (1) as required.
2. If locking arms (2) are bent or won't move, replace entire reducer (3).



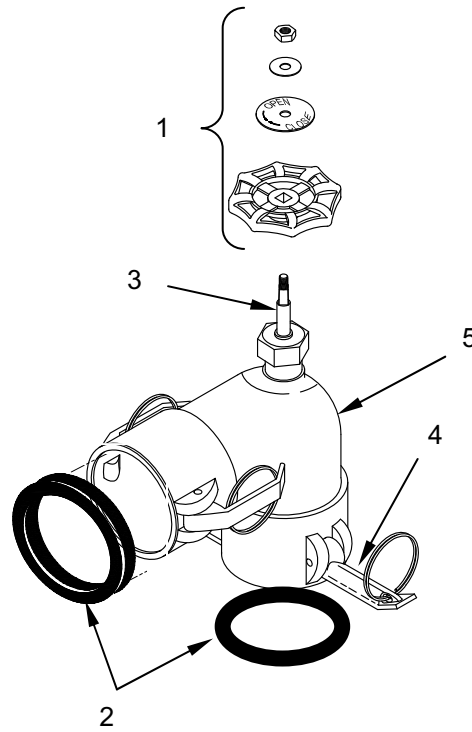
Replace fuel nozzle components as follows:

1. Replace coupling (1) as required.
2. Tighten fitting (2) if nozzle leaks.
3. Replace entire nozzle (3) if handle is damaged.



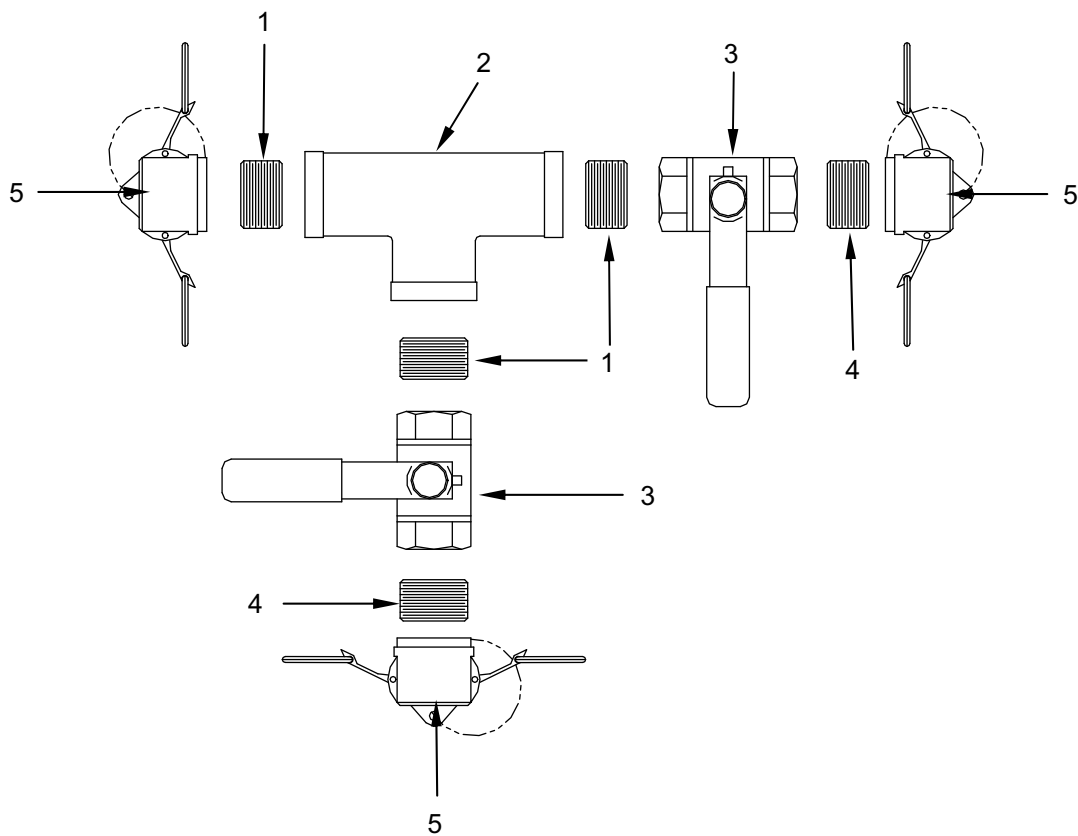
Replace angle valve components as follows:

1. Replace valve handle (1) as required.
2. Replace gaskets (2) as necessary.
3. If valve stem (3) is bent, or locking arms (4) won't move replace entire valve (5).



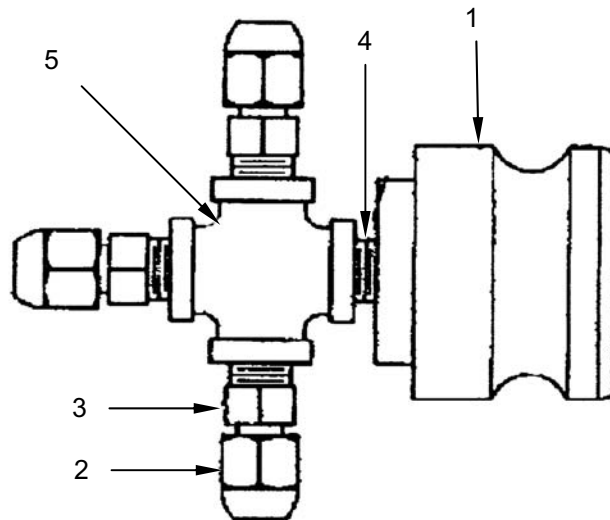
Replace Fuel Distribution Tee components by disassembling the tee as shown and re-assembling it using replacement components as follows:

1. Apply pipe thread sealant to the 2-inch brass nipples (1) and install them into the Tee (2).
2. Apply pipe thread sealant to the butterfly valves (3) and install them onto the 2-inch brass nipples (1).
3. Apply pipe thread sealant to the external pipe thread coupling half (4). Install them onto the butterfly valves (3) and the left arm of the Tee (2) as shown.
4. Install dust caps (5) onto the external pipe thread coupling half (4) and (1) as shown.



Replace fuel manifold assembly components as follows:

1. Replace 1½-inch coupling (1) as required.
2. Replace the  $\frac{5}{16}$ -inch tube x ¼-inch brass caps (2) and tubes (3) as necessary.
3. Replace the ¼-inch brass nipples (4) as necessary.
4. Apply pipe thread sealant as applicable during re-assembly.
5. If the ¼-inch brass cross (5) is damaged, replace the entire manifold.



**END OF WORK PACKAGE**

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**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
WASTEWATER VALVES, PIPES, TEES, HOSES, TRASH PUMP  
INSPECT/SERVICE/REPAIR/REPLACE**

---

**INITIAL SETUP:****Tools**

Tool Kit, General Mech. Automotive (WP 0081 00, Item 5)  
 Tool Kit, Plumber's (WP 0081 00, Item 7)  
 Wrench, Open-end,  $\frac{9}{16}$ -in. (WP 0081 00, Item 12)

**Personnel Required**

Two

**Materials/Parts**

Detergent, General Purpose, Mild (WP 0102 00, Item 35)  
 Gasket, Flange 4-inch (WP 0102 00, Item 49)  
 Rags, Wiping (WP 0102 00, Item 79)  
 Hose Clamp 2-in. (WP 0102 00, Item 59)  
 Tape, Anti-seize (WP 0102 00, Item 88)

**Equipment Condition**

Valves, Pipes, Hoses, Tee, and trash pump disconnected.

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**WARNING**

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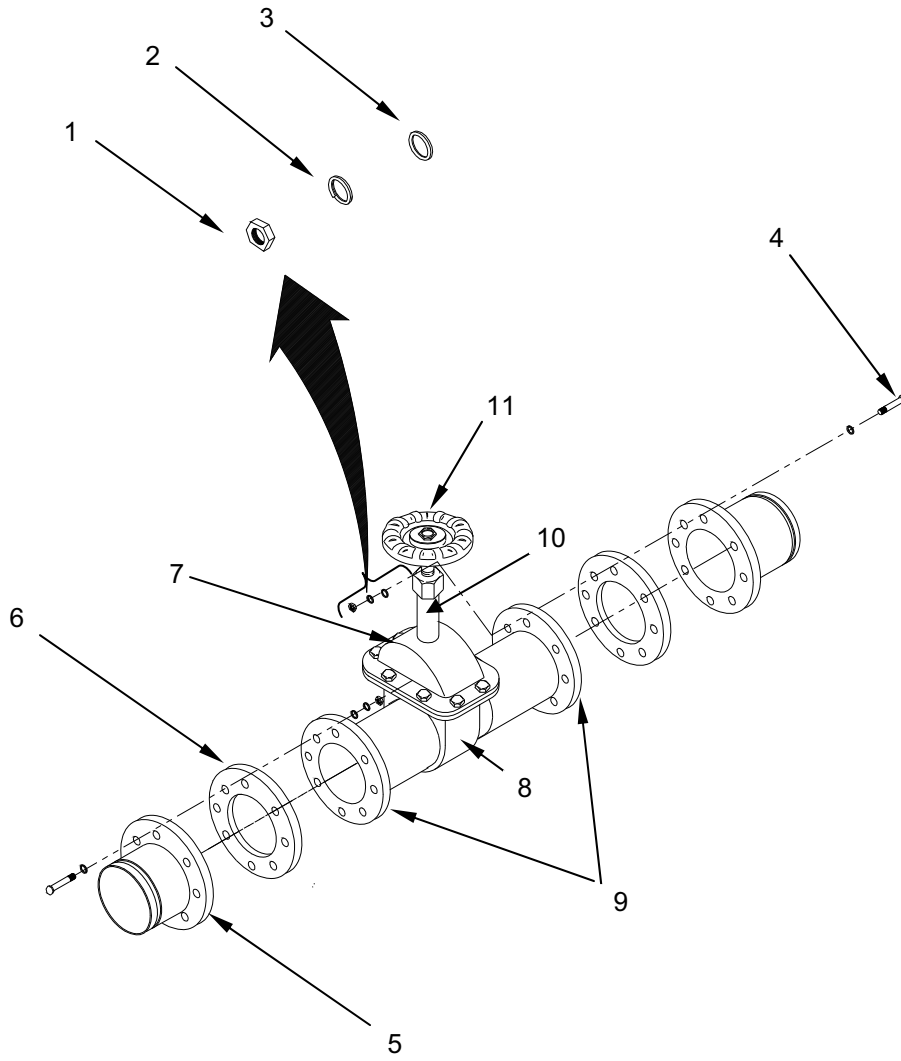


Proper protective clothing should be donned when working on graywater system components. Skin contact could cause serious health problems, or death.

**INSPECT**

To inspect a 4-inch gate valve, it must be removed from the main line and disassembled as follows:

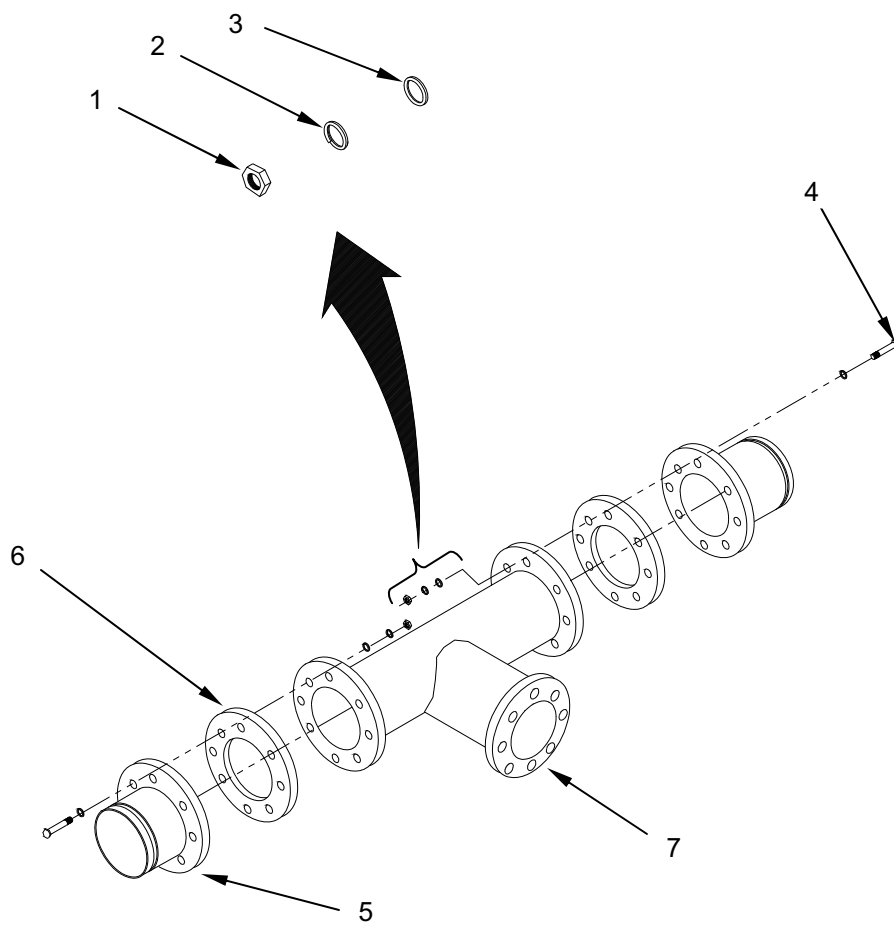
1. Remove eight nuts (1), lock washers (2), flat washers (3), and bolts (4).
2. Separate grooved flange (5) to be replaced.
3. Remove flange gasket (6).
4. Wash all components with clean water/detergent mixture.
5. Rinse components in clean water and dry with wiping rag.
6. Inspect grooved flange (5) for cracks, damaged groove and corrosion.
7. Inspect valve bonnet (7), valve body (8) and flange (9) for cracks, scored mating surfaces and corrosion.
8. Inspect for bent stem (10) and missing hand wheel (11).





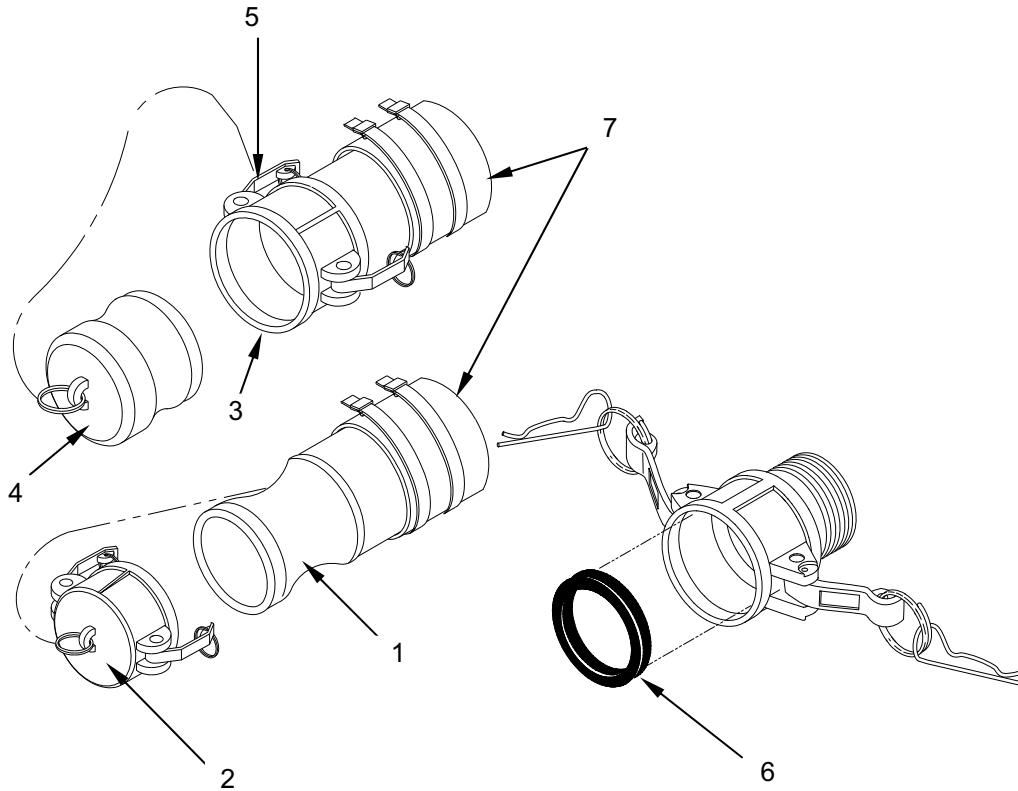
To inspect a 4-inch grooved Tee, remove it from the main line and disassembled as follows:

1. Remove eight nuts (1), lock washers (2), flat washers (3), and bolts (4).
2. Separate grooved flange (5) to be replaced.
3. Remove flange gasket (6).
4. Wash all components with clean water/ detergent mixture.
5. Rinse components in clean water and dry with wiping rag.
6. Inspect grooved flange (5) for cracks and corrosion.
7. Inspect Tee (7) for cracks and corrosion.



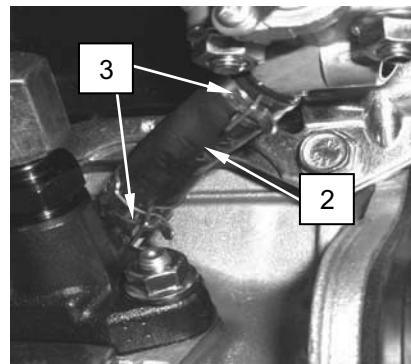
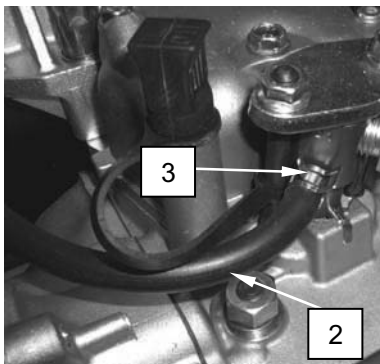
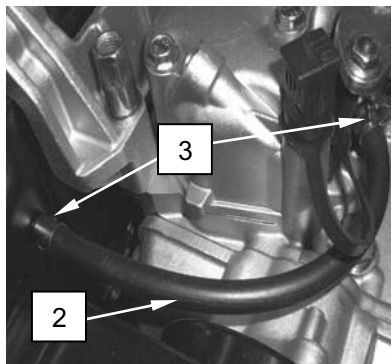
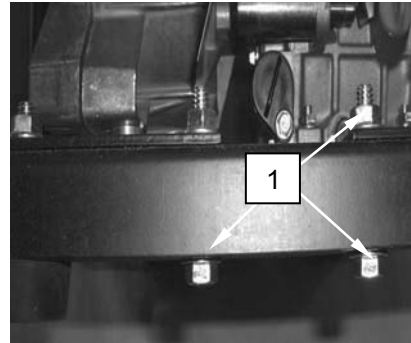
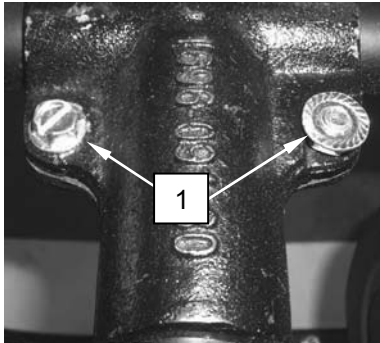
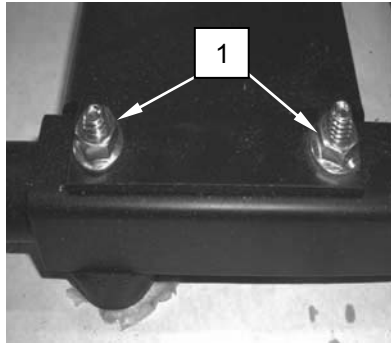
To inspect a hose and its couplings, remove it from the branch line. Inspect it as follows:

1. Inspect male coupling (1) and dust plug (2) for cracks and corrosion.
2. Inspect female coupling (3) and dust cap (4) for cracks, corrosion, and damaged locking arms (5).
3. Remove and inspect gasket (6) in female coupling (3) and dust caps (2) and (4).
4. Inspect hose (7) for cuts, tears, punctures, and de-lamination.

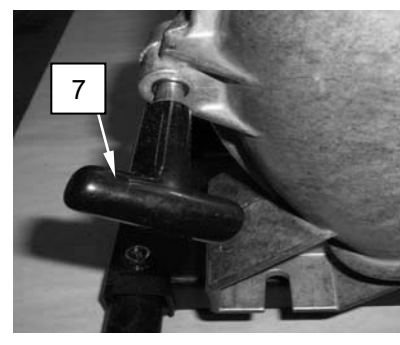
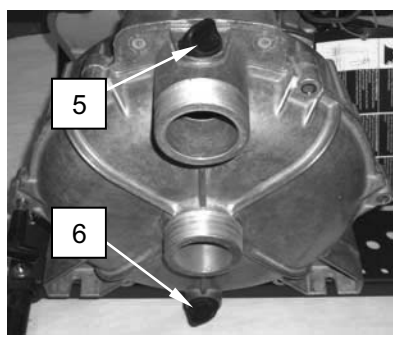
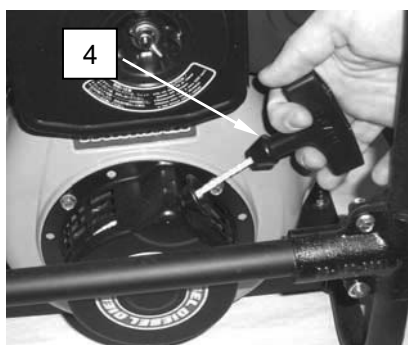
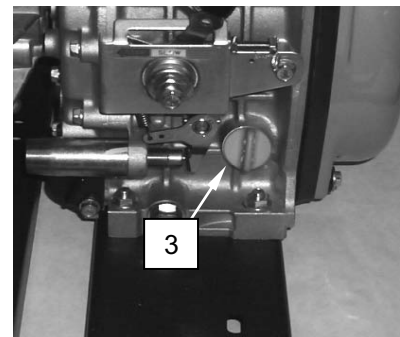
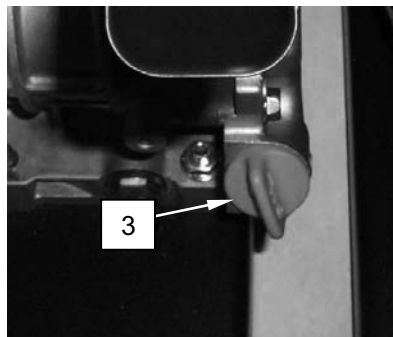
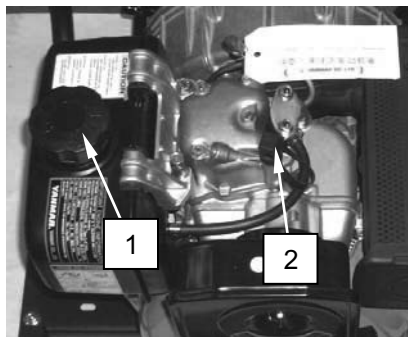


To inspect the trash pump shut it down as described in WP 0030 00. Then, inspect the pump as follows:

1. Inspect pump mounting hardware (1) for missing or loose nuts and bolts.
2. Inspect condition of fuel hoses (2) and security of clamps (3).



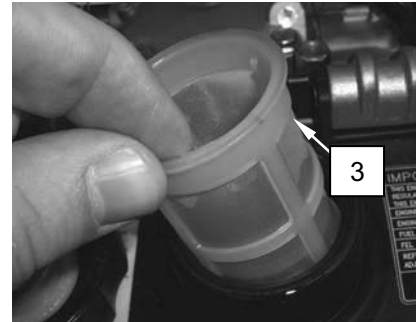
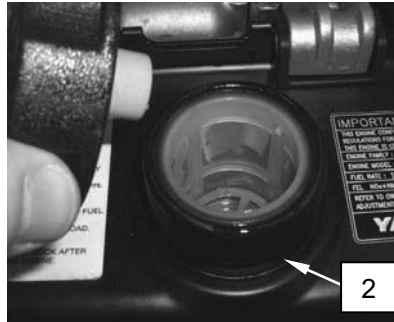
3. Inspect the unit to see that no parts are missing, including the fuel cap (1), oil cap (2), dip sticks (3), recoil handle (4) on the engine, and priming plug (5), drain plug (6) and handles (7) on the pump.
4. Check for damage to the pump frame.



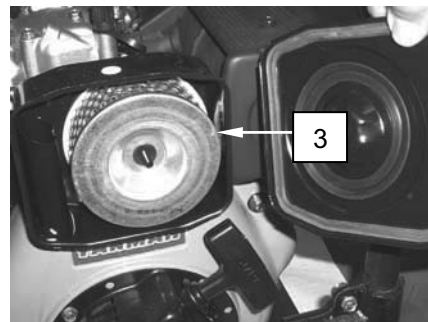
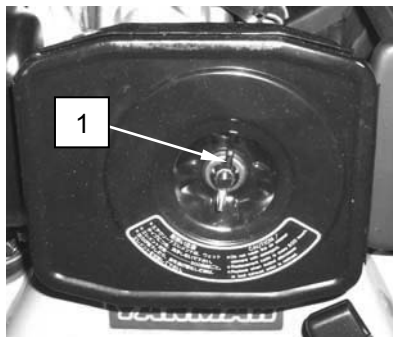
**SERVICE**

To service the trash pump shut it down as described in WP 0030 00. Then, service the pump as follows:

To clean the fuel filter, remove the fuel cap (1) from the tank (2). Lift out the inlet fuel filter (3). Examine the filter and clean it as necessary. Install the cleaned filter into the tank (2) and reinstall the fuel cap onto the tank (1).



To clean the air filter, remove the wing nut (1) from the cover (2). Lift out the air filter (3) and examine it. Clean it as necessary with pressurized air. Reinstall the filter (3). Replace cover (2) and wing nut (1).



To change the engine oil and clean the oil filter proceed as follows:

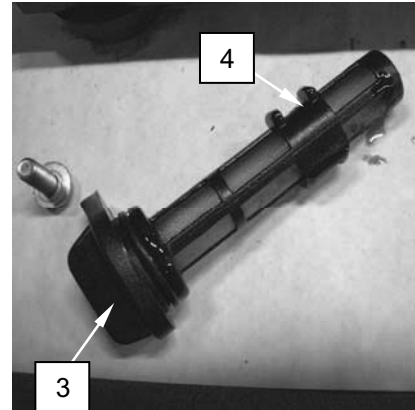
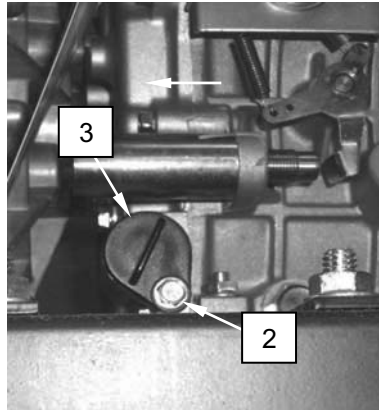
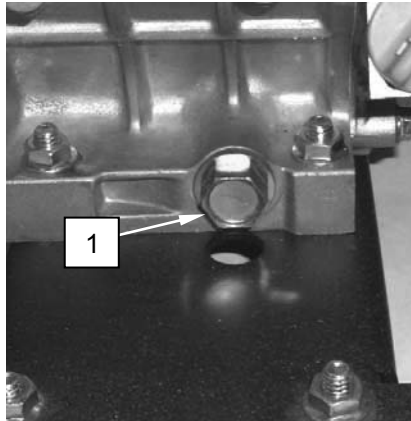


**WARNING**

Do not drain the engine oil while it is hot. Let the engine cool down at least 30 minutes to prevent injuries from contact with hot engine parts or scalding from hot oil.

1. Position a container under the engine oil drain to collect the waste oil.
2. Remove the drain plug (1) and let the oil drain.
3. When all oil has drained, reinstall the oil plug (1).
4. Remove the oil filter retaining bolt (2).
5. Pull the oil filter cap (3) out and remove the oil filter (4).
6. Examine the oil filter (4) and clean as necessary.
7. Re-insert the oil filter cap (3) with cleaned filter (4).
8. Install the oil filter cap retaining bolt (2).

- Fill the engine with approximately 0.85 Quart of either SAE 10W-30, or 15W-40 type oil as described in WP 0030 00.



**REPAIR**

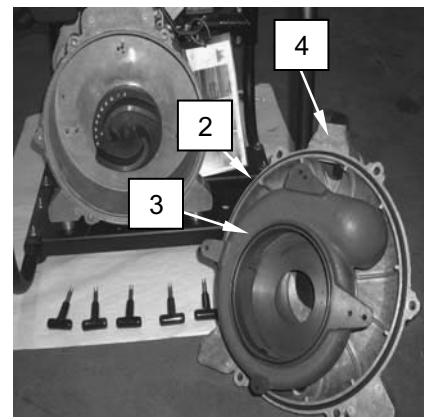
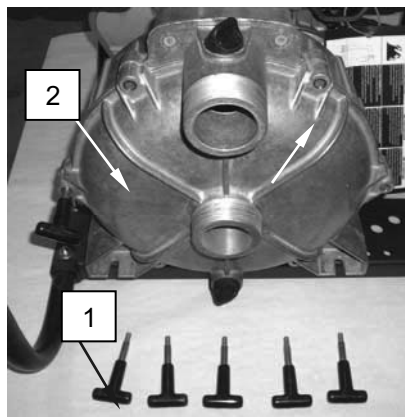
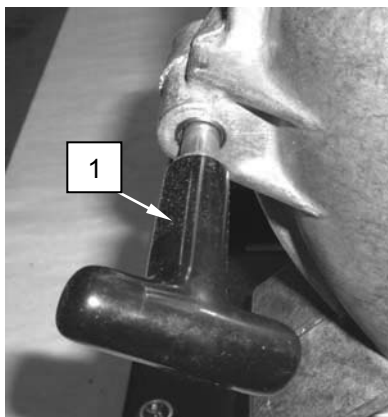


**WARNING**

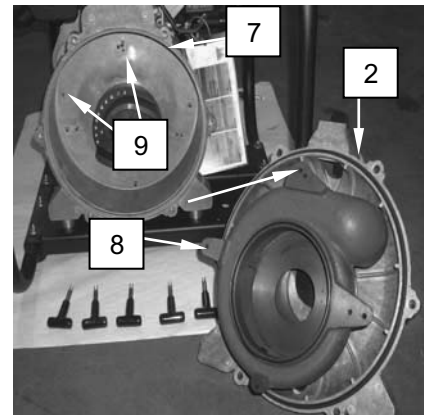
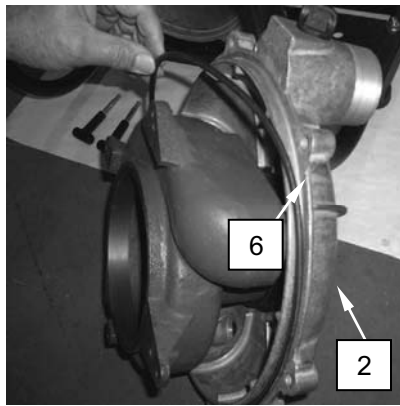
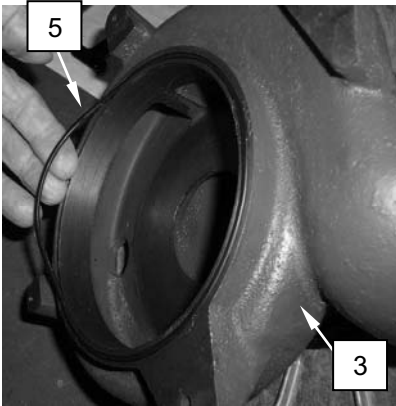
It is extremely important to keep the trash pump separate from other equipment during maintenance. Once placed in service, it will be contaminated with waste water. To prevent severe illness or death from contamination, wear gloves when disassembling the pump and steam clean the tools as well as the pump itself before placing it back on line.

To repair the trash pump shut it down as described in WP 0030 00. Disconnect the pump from the waste water collection subsystem. Then, repair the pump by removing and clearing/replacing the volute and O Rings as follows:

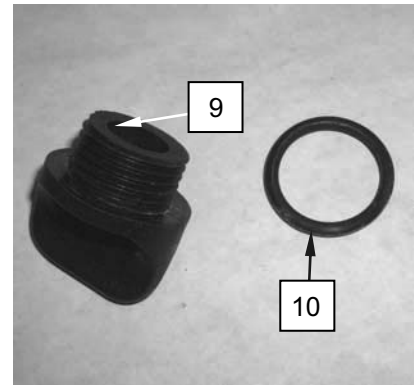
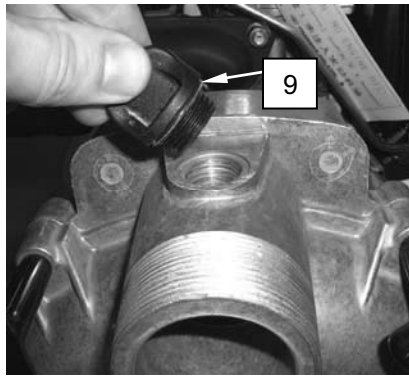
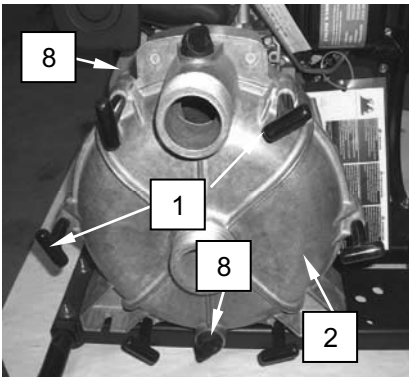
- Turn handles (1) counter clockwise and remove them from pump housing (2).
- Remove front housing (2).
- Remove the volute (3) from the front housing (2). Clean the inside of the front housing and volute to ensure free passage of fluid through volute and housing discharge port (4). Replace a damaged volute (3).



4. Install a new O-ring (5) onto the cleaned or new volute (3).
5. Install a new O-ring (6) onto the front housing (2).
6. Reinstall the front housing (2) onto the pump housing (7) with the holes on the volute flanges (8) aligned with the studs (9) on the pump housing (7).



7. Check condition of O-rings on handles (1) and replace if necessary.
8. Reinstall handles (1) through the front housing (2) into the pump housing (7) and hand tighten.
9. Check the drain (8) and priming plug (9). Replace these if they show cracks or the O-ring (10) is missing.

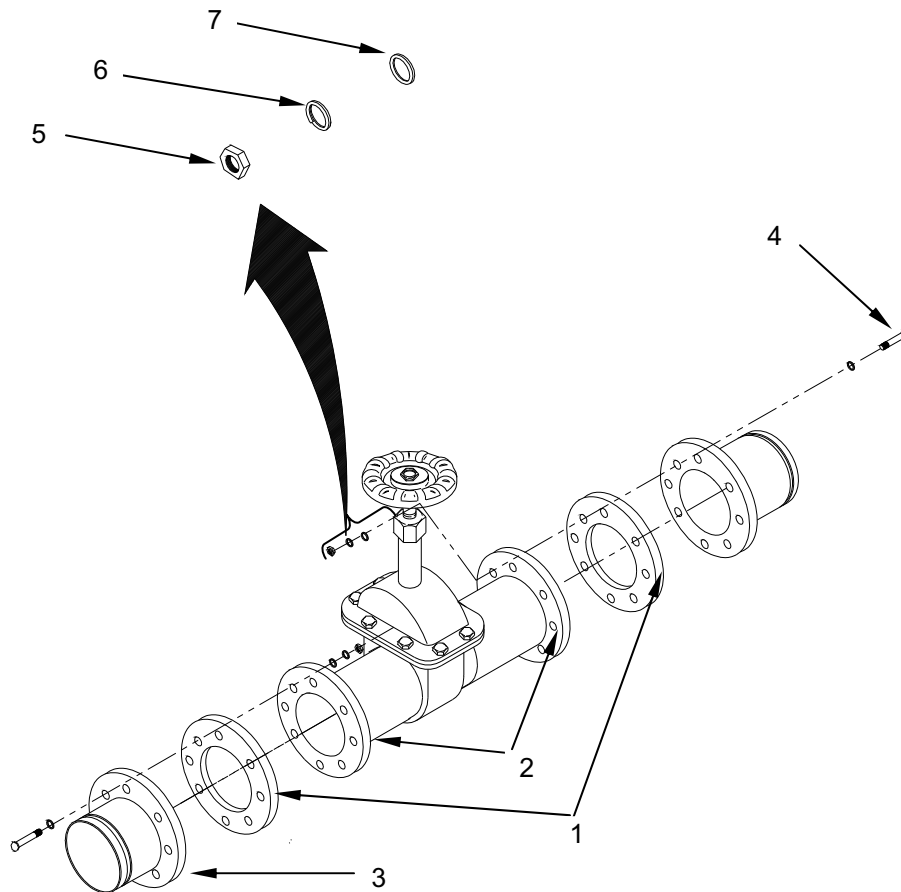


**REPLACE**

Replace component parts as described below. Refer to the corresponding inspection procedures for disassembly instructions.

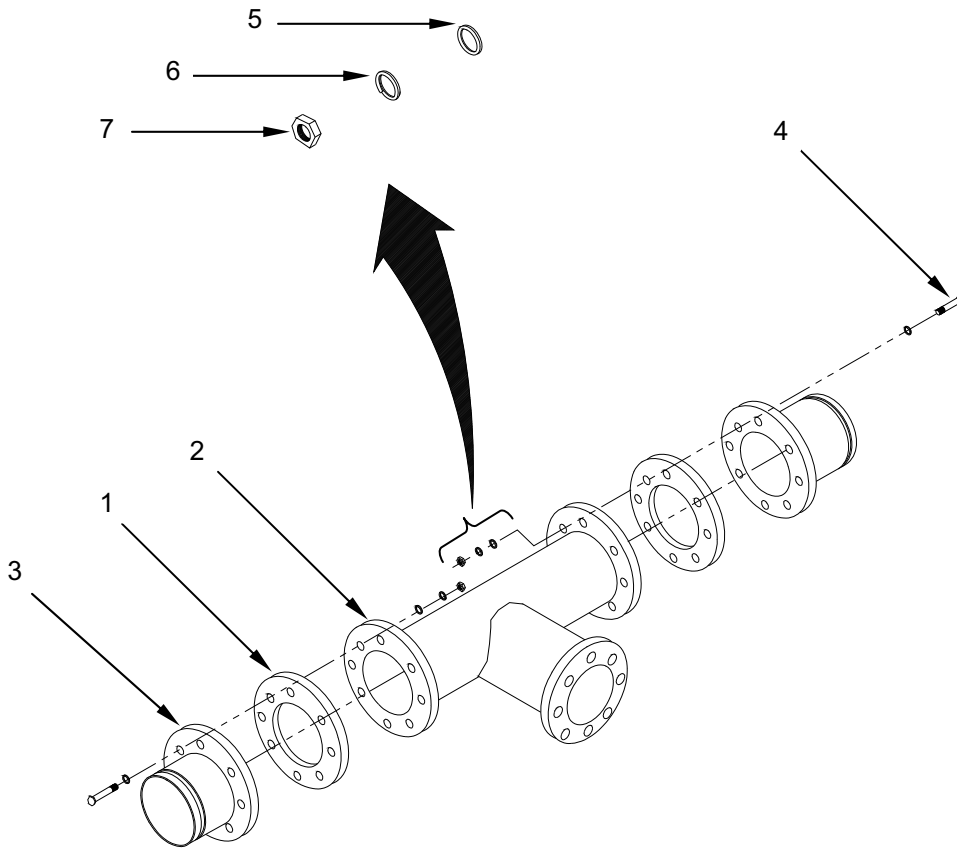
Replace 4-inch gate valve components as follows:

1. Position serviceable gasket(s) (1) on valve (2), aligning bolt holes.
2. Position grooved flange (3) onto gate valve flange (2) and gasket (1), and with gasket between, align bolt holes.
3. Install eight bolts (4), flat washers (5), lock washers (6) and nuts (7). Tighten all bolts/nuts hand tight.
4. Tighten a bolt (4) two full turns; proceed in a star pattern to remaining seven bolts/nuts tightening each down two full turns.
5. Repeat step 4 until all eight bolts (4) are evenly and securely tightened.



Replace 4-inch grooved Tee as follows:

1. Position serviceable gasket (1) on Tee (2), aligning bolt holes.
2. Position grooved flange (3) onto Tee flange (2) and gasket (1), and with gasket between, align bolt holes.
3. Install eight bolts (4), flat washers (5), lock washers (6) and nuts (7). Tighten all bolts/nuts hand tight.
4. Tighten a bolt (4)/nut (7) two full turns; proceed in a star pattern to remaining seven bolts/nuts, tightening each down two full turns.
5. Repeat step 4 until all eight bolts/nuts are evenly and securely tightened.





Replace hose components as follows:



### WARNING

Wear eye protection and gloves while banding. Banding may break if operator does not release tension on handle when bending over buckle. Flying banding may cause severe injury to personnel.

### NOTE

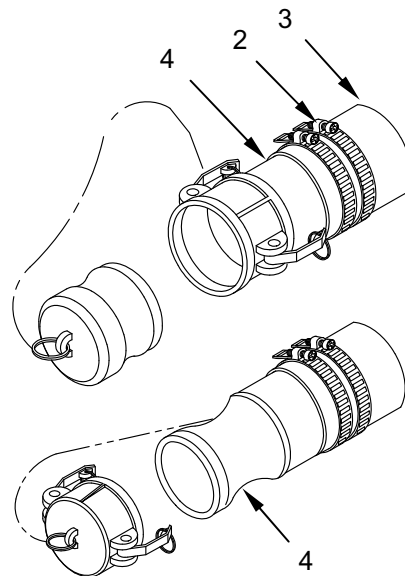
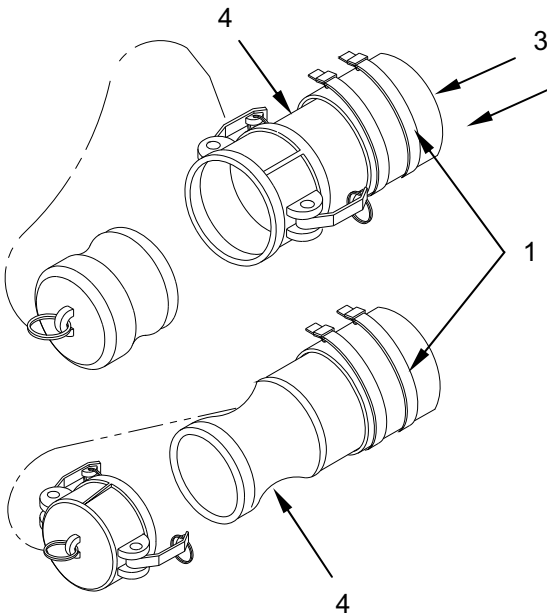
If hose components are secured with banding, remove the banding as described. Use hose clamps supplied in the water distribution and plumbing system support package (TRICON 11C) to secure replacement components.

1. Cut banding (1), or loosen hose clamp (2) from hose (3).
2. Remove coupling (4) from hose (2).

### NOTE

Ensure a serviceable gasket is firmly seated in the replacement coupling.

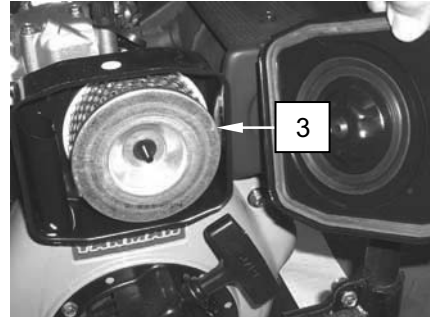
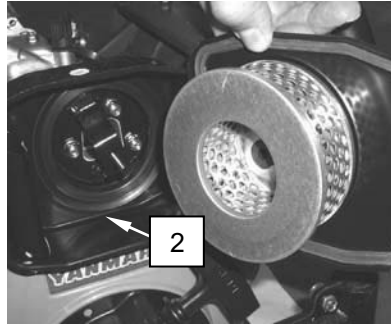
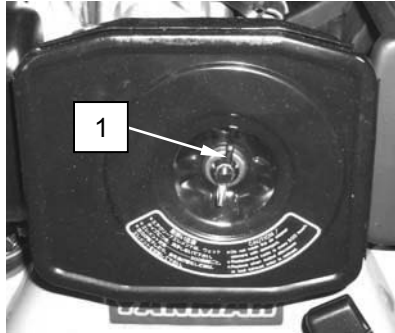
3. Insert replacement coupling (4) into hose (3).
4. Tighten hose clamp screw (2) securely.



To replace the air, fuel, and oil filters of the trash pump engine, it must be shut down as described in WP 0030 00.

Replace the air filter as follows:

1. Remove the wing nut (1) from the housing cover (2). Retain nut.
2. Remove the air filter (3) and discard.
3. Install a new air filter (3).
4. Replace the cover (2) and secure with wing nut (1)

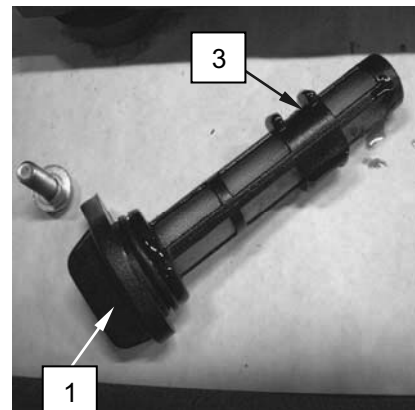
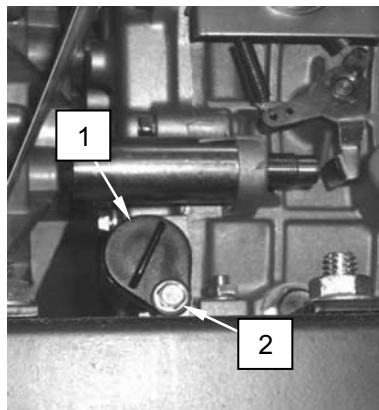
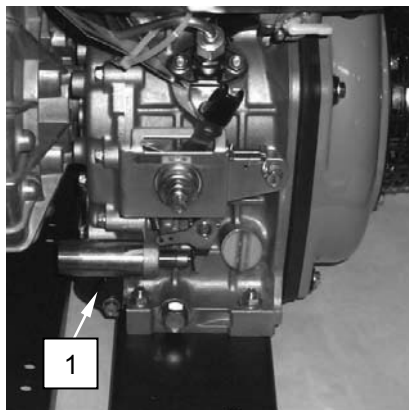


Replace the oil filter as follows:

#### NOTE

The filter is normally replaced during oil changes as described under SERVICE in this WP. It must be replaced after the first 50 Hours of operation and every 400 Hours, thereafter.

1. Locate the oil filter cap (1).
2. Remove the retaining bolt (2) holding the cap (1) to the engine block.
3. Pull out oil filter cap (1) and remove oil filter (3).
4. Install new filter (3) onto cap (1).
5. Reinstall the oil filter cap (1) and secure with retaining bolt (2).



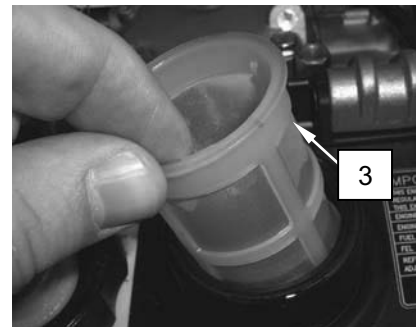
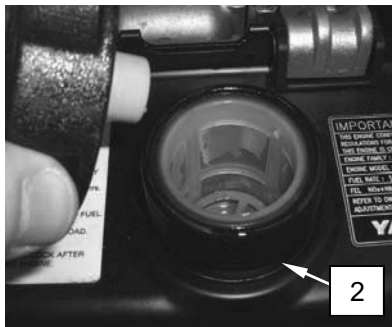
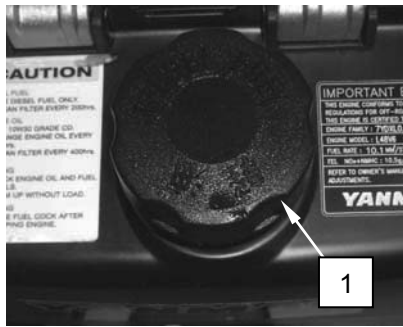
Replace the inlet fuel filter as follows:



**WARNING**

Diesel fuel is extremely flammable and explosive under certain conditions. To prevent serious injury or death keep open flames or other forms of ignition away from the fuel tank. Be prepared to wipe all fuel spills immediately.

1. Clean the area around the fuel cap (1).
2. Remove the fuel cap (1) from the fuel tank (2).
3. Lift out the inlet fuel filter (3) and discard.
4. Install a new inlet fuel filter (3).
5. Replace the fuel cap (1) and hand tighten.



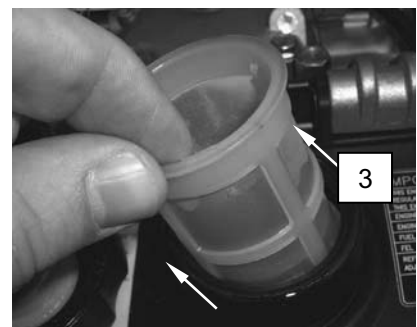
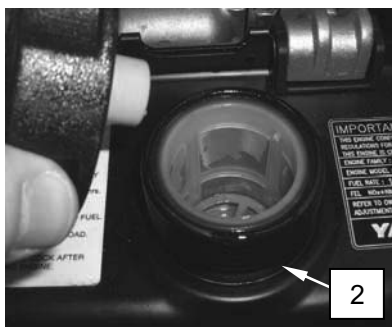
Replace the outlet fuel filter as follows:

**WARNING**



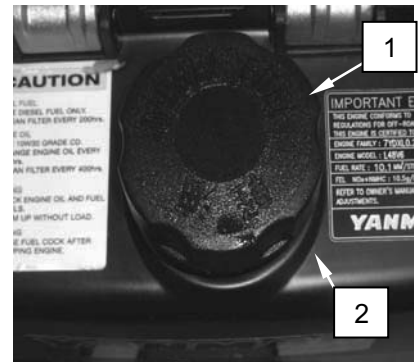
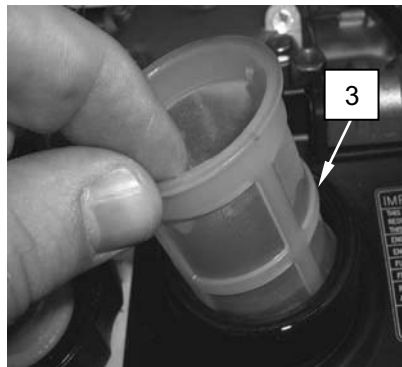
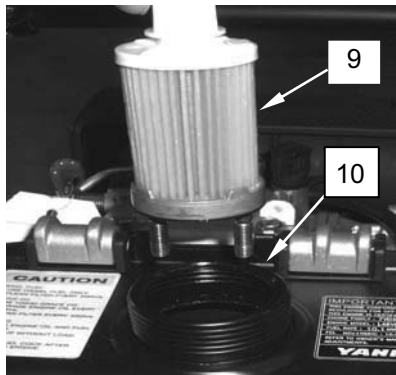
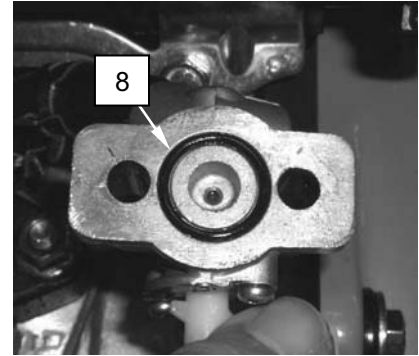
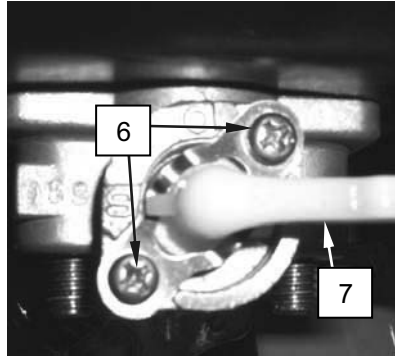
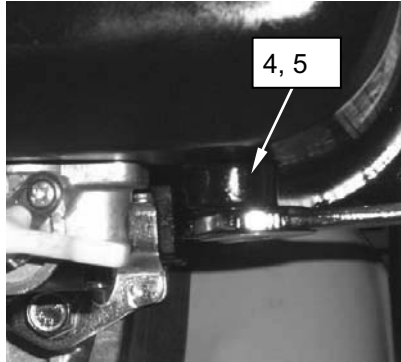
Diesel fuel is extremely flammable and explosive under certain conditions. To prevent serious injury or death keep open flames or other forms of ignition away from the fuel tank. Be prepared to wipe all fuel spills immediately.

1. Position an approved container under the fuel tank to collect the fuel.
2. Remove the fuel cap (1) from the fuel tank (2).
3. Remove the inlet fuel filter (3) and set aside on a clean surface.



4. Remove the fuel tank drain plug (4) and O-ring (5). Retain the plug and O-Ring.

5. Loosen the fuel cock nuts (6) on both sides of the fuel cock (7).
6. Remove and discard the O-Ring (8).
7. Remove the outlet fuel filter (9) from the fuel tank through the filler port (10).



8. Position a new outlet fuel filter (9) in place through the fuel tank filler port (10).
9. Replace the O-Ring (8) on the fuel cock (7) and secure the assembly with the fuel cock nuts (6).
10. Reinstall the fuel tank drain plug (4) and O-Ring (5).
11. Reinstall the inlet fuel filter (3) and fill the tank (2) with diesel fuel.
12. Reinstall the fuel cap (1) and hand tighten.

**END OF WORK PACKAGE**

**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
FOOD SERVICE WATER DISTRIBUTION SYSTEM  
INSPECT/REPLACE**

**INITIAL SETUP:**

**Tools**

- Pipe Wrench (WP 0083 00, Item 13)
- Tool Kit Pipe Fitter  $\frac{1}{8}$ " to 2" Pipe (WP 0083 00, Item 6)
- Tool Kit, General Mech. Automotive (WP 0083 00, Item 5)
- Tool Kit, Plumber's (WP 0083 00, Item 7)

**Personnel Required**

One

**Equipment Condition**

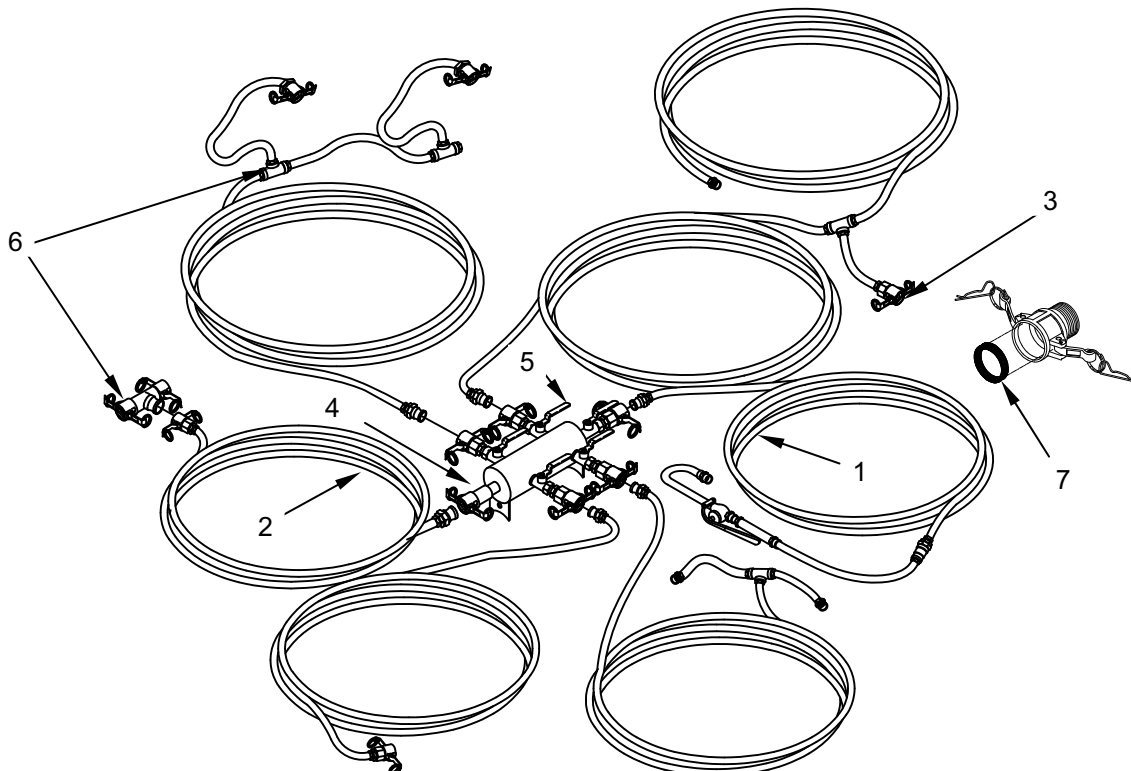
Water system equipment disconnected.

**Materials/Parts**

- Detergent, General Purpose, Mild (WP 0102 00, Item 35)
- Gasket, QDISC,  $\frac{1}{2}$ " (WP 0102 00, Item 45)
- Gasket, QDISC,  $1 \frac{1}{4}$ " (WP 0102 00, Item 46)
- Gasket, QDISC,  $1 \frac{1}{2}$ " (WP 0102 00, Item 50)
- Gasket, QDISC, 1" (WP 0102 00, Item 47)
- Gasket, QDISC, 2" (WP 0102 00, Item 51)
- Rags, Wiping (WP 0102 00, Item 79)
- Tape, Anti-seize (WP 0102 00, Item 88)

**INSPECT**

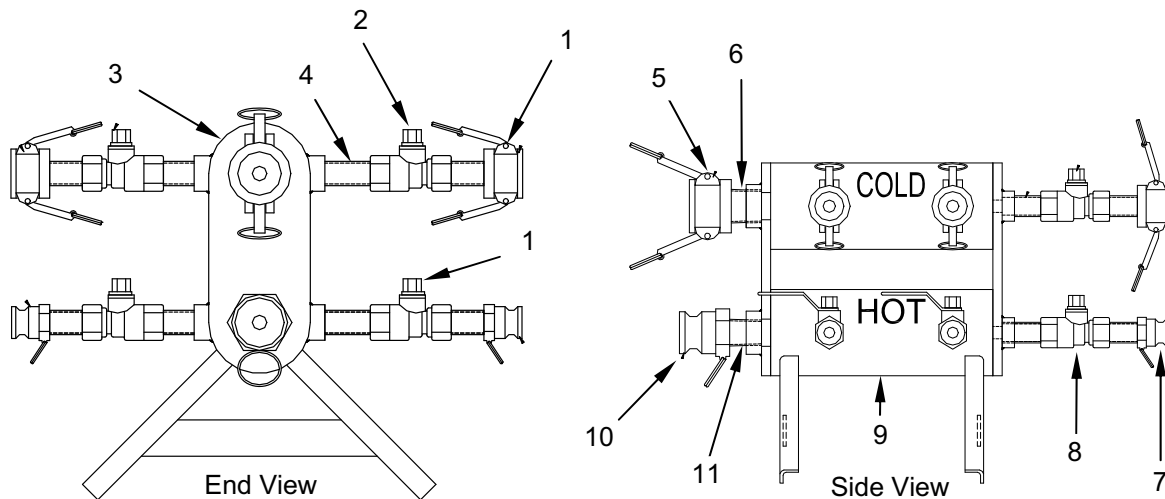
Inspect the food service hot (1) and cold (2) water hoses, QDISC fittings (3), manifold (4), ball valves (5), and Tee (6) for damage. Check equipment for leaks, due to cuts or abrasions in hoses, as well as dents in fittings and Tee. Check for free movement of ball valve arms and presence of gaskets (7) in hose fittings.



**REPLACE**

Replace unserviceable components of the manifold as follows:

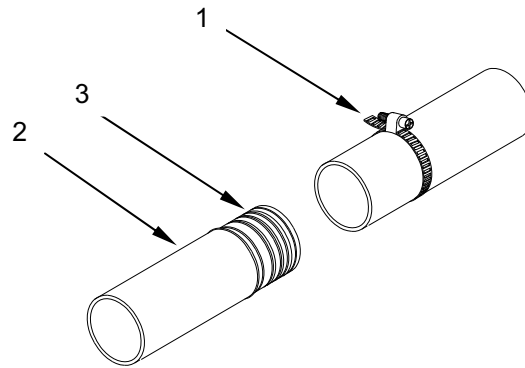
1. Replace a damaged ½-inch, brass coupling half, F X EPT, Type II (1) by removing it from the ½-inch ball brass valve (2) on the COLD water section of the manifold (3), and replacing it with a new one, as necessary.
2. Replace a damaged, leaking or otherwise defective ½-inch brass ball valve (2) by unthreading it from the brass nipple (4) on the COLD water section of the manifold (3).
3. Apply anti-seize to the threads of a new ball valve (1) and install it onto the brass nipple (4) on the COLD water section of the manifold (3).
4. Replace a damaged 1-inch, brass coupling half, F X EPT (5), by removing it from the cold water inlet port (6) on the COLD water section of the manifold (3), and replacing it with a new one as necessary.
5. Replace a damaged ½-inch, brass coupling half, M X EPT (7), by unthreading it from the ½-inch brass ball valve (8) on the HOT water section of the manifold (9).
6. Apply anti-seize to threads of new ½-inch, brass coupling half, M X EPT (7), and thread it onto the ½-inch brass ball valve (8).
7. Replace a damaged 1-inch, brass coupling half, M X EPT (10), by unthreading it from the hot water inlet port (11) on the HOT water section of the manifold (9).
8. Apply anti-seize to threads of new 1-inch, brass coupling half, M X EPT (10), and thread it onto the hot water inlet port (11) on the HOT water section of the manifold (9).



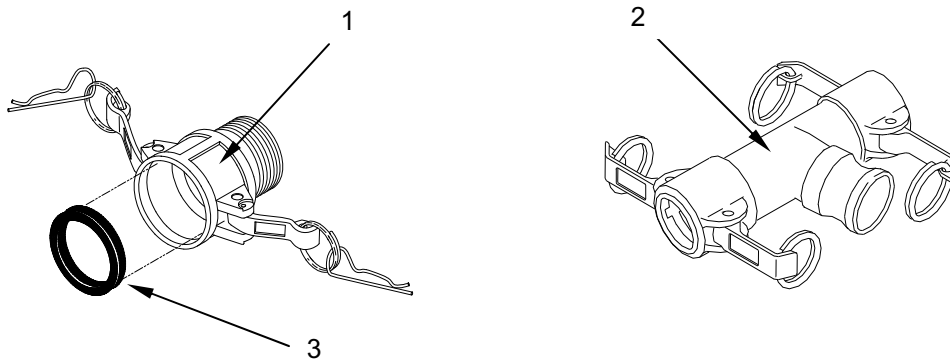
To replace hot and cold water hose components, proceed as follows:

1. Remove a damaged or otherwise unserviceable QDISC fitting from a water hose by unthreading it from the hose fitting.
2. If hoses are joined using hose clamps, loosen hose clamps (1).
3. Remove hose (2) from barbs (3).
4. Inspect barbs (3) for cracks or corrosion.

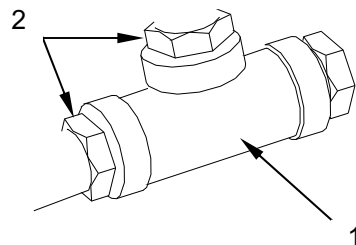
5. Cut a new section of serviceable hose (2), of required length.
6. Obtain serviceable hose clamp(s) (1).
7. Place hose clamp (1) loosely over one end of hose (2).
8. Insert barb (3) into hose (2); tighten hose clamp (1).
9. Place hose clamp (1) loosely over opposite end of hose (2).
10. Insert barb (3) into hose (2); tighten hose clamp (1).



Replace a QDISC fitting (1), Tee (2), or gasket (3) as appropriate.



Replace a water hose, QDISC fitting, manifold, ball valve, QDISC and Tee that cannot be repaired as described in this work package. Replace an in-line Tee (1) by unthreading the hose fittings (2). Apply antiseize to hose fitting threads and install a new in-line Tee.



**END OF WORK PACKAGE**





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**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
FOOD SERVICE WASTE WATER COLLECTION SYSTEM  
INSPECT/REPAIR/REPLACE**

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**INITIAL SETUP:****Tools**

Tool Kit, General Mech. Automotive (WP 0083 00, Item 5)  
Tool Kit, Plumber's (WP 0083 00, Item 7)  
Wrench, Open-end,  $\frac{9}{16}$ " (2) (WP 0083 00, Item 12)

**Materials/Parts**

Detergent, General Purpose, Mild (WP 0102 00, Item 35)  
Gasket, Flange 4" (as required) (WP 0102 00, Item 49)  
Hose Clamp (WP 0102 00, Item 58 or 59)  
Rags, Wiping (WP 0102 00, Item 79)  
Tape, Anti-seize (WP 0102 00, Item 88)

**Personnel Required**

Two

**Equipment Condition**

Valves, Hoses, and Tee disconnected.



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**WARNING**

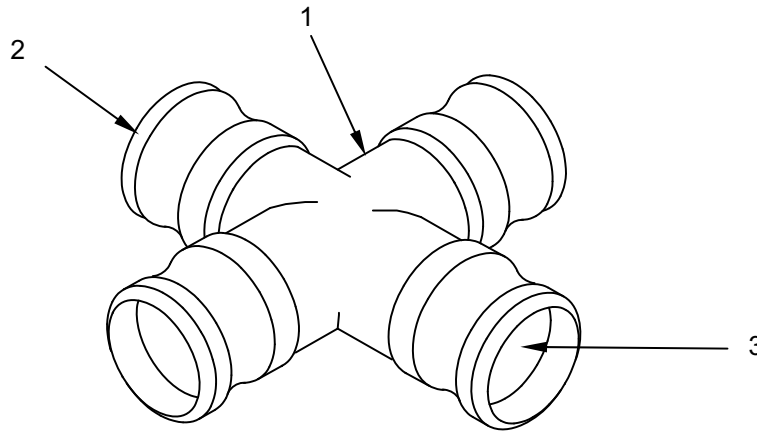
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To prevent contamination of drinking water supplies, ensure that waste water components are kept separate from potable water subsystem components. Use of components from bulk fuel, or graywater with potable water system can cause serious health problems.

**INSPECT**

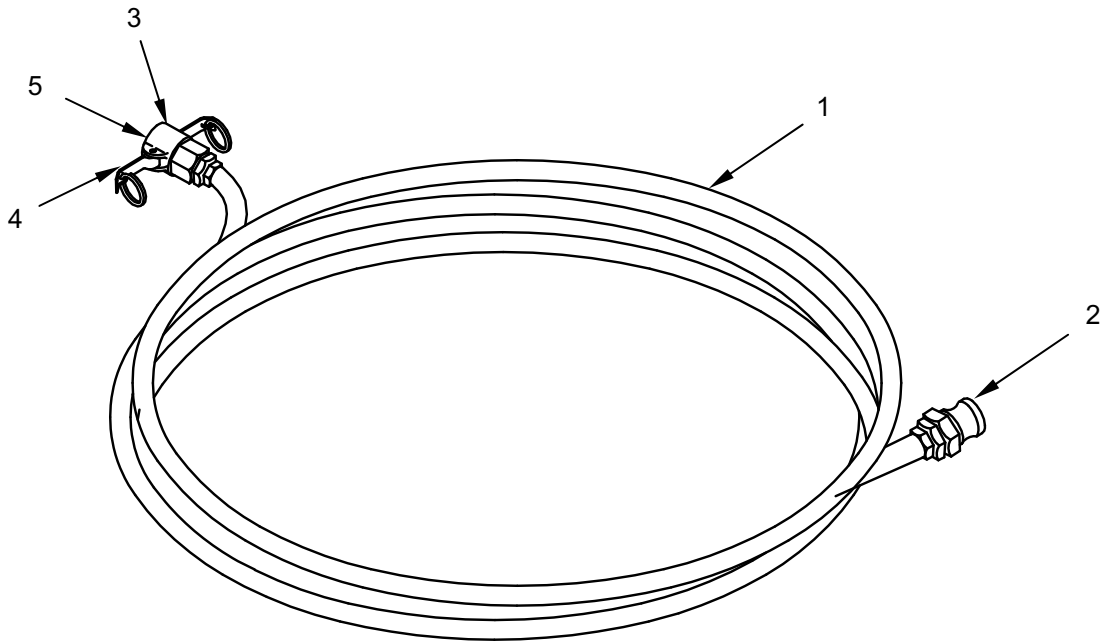
To inspect the  $1\frac{1}{4}$ -inch cross assembly, remove it from the drain lines and proceed as follows:

1. Inspect the cross (1) housing for cracks and deformations.
2. Inspect the  $1\frac{1}{4}$ -inch male couplings (2) for evidence of leaks.
3. Check cross (1) interior (3) for any obstructions that would restrict the flow of waste water.



To inspect a 1¼-inch drain hose, removed it from the waste water collection line and proceed as follows:

1. Inspect the 1¼-inch hose (1) for damage and/or leaks.
2. Inspect the male (2) and female (3) coupling halves for secure attachment to the hose (1)
3. Check the locking arms (4) on the female coupling for free movement and proper functioning.
4. Check for the presence and serviceable condition of the gasket (5) located inside the female coupling.
5. Wash all components with clean water/detergent mixture.



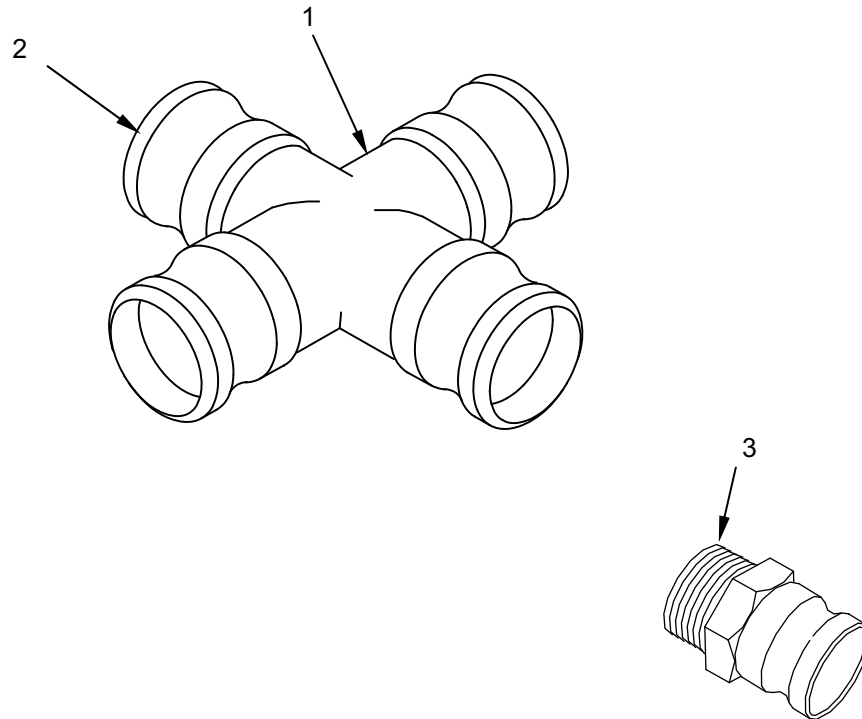
**REPAIR**

Repair a cross assembly or drain hose assembly by replacing defective components.

**REPLACE**

Replace cross assembly components as follows:

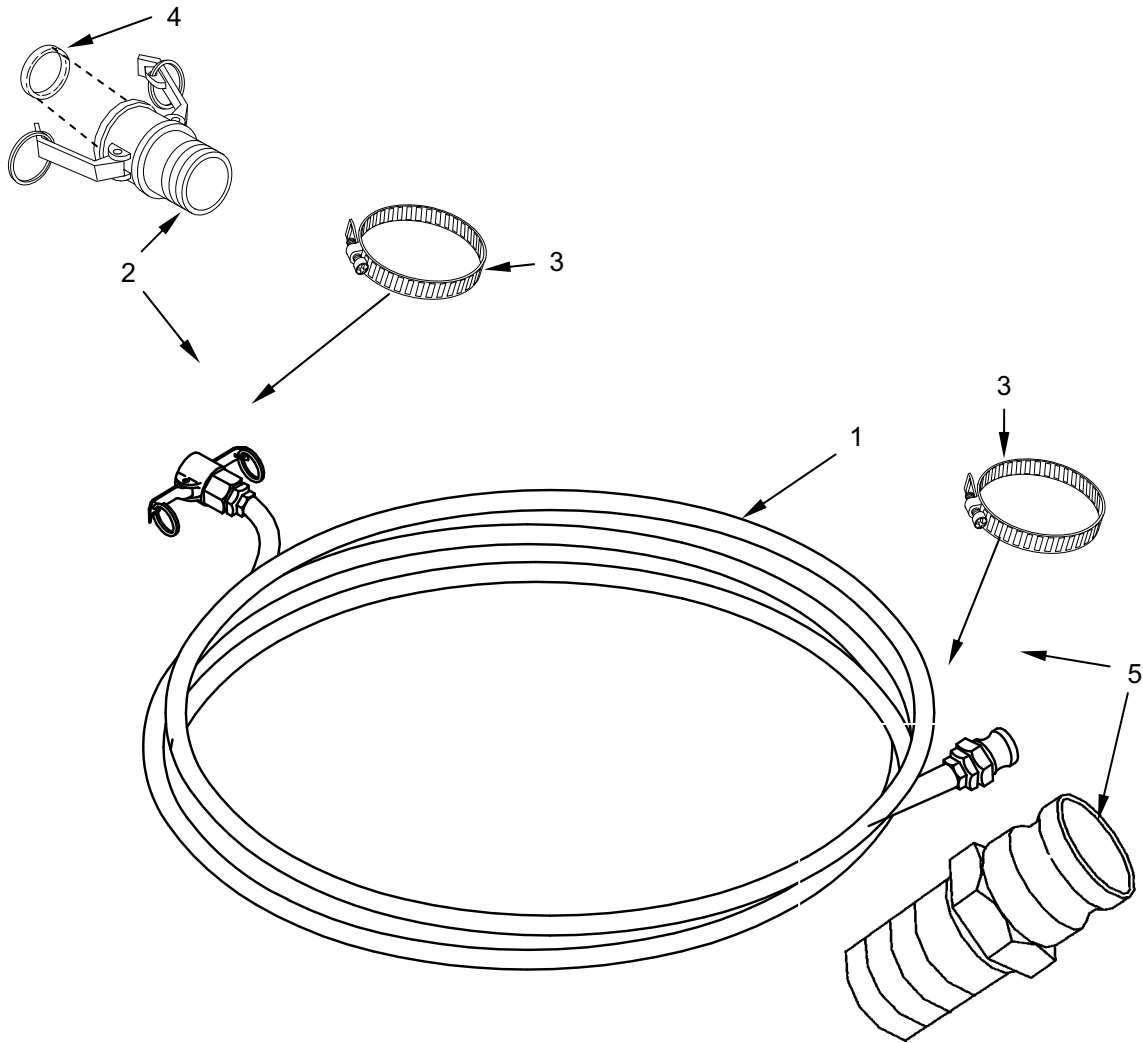
1. Inspect and disassemble the cross assembly as described under INSPECT in this WP.
2. If cross (1) is cracked or deformed, replace the entire cross assembly.
3. To replace any of the 1¼-inch male coupling(s) (2), unscrew and discard it.
4. Apply anti-seize tape, in counter-clockwise direction, to the threads (3) of the replacement coupling(s).
5. Screw coupling(s) (2) clockwise into cross (1), being careful not to cross-thread.



Replace 1¼-inch drain hose assembly components as follows:

1. Inspect and disassemble the 1¼-inch drain hose assembly, as described under INSPECT in this WP.
2. Replace a hose (1) that is leaking due to a cut, tear or severe abrasion.
3. Install 1¼-inch female cam lock coupling hose shank (2) onto hose (1) and secure with SAE#12 hose clamp (3).
4. Install new gasket (4) into female cam lock coupling (2) as necessary.

5. Install 1¼-inch male cam lock coupling hose shank (5) onto hose (1) and secure with SAE#12 hose clamp (3).



END OF WORK PACKAGE

**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
FOOD SERVICE GREASE TRAP  
INSPECT/SERVICE/REPLACE**

**INITIAL SETUP:**

**Tools**

Tool Kit, General Mech. Automotive (WP 0083 00, Table 2, Item 5)  
Tool Kit, Plumber's (WP 0083 00, Table 2, Item 7)

**Personnel Required**

Two

**Materials/Parts**

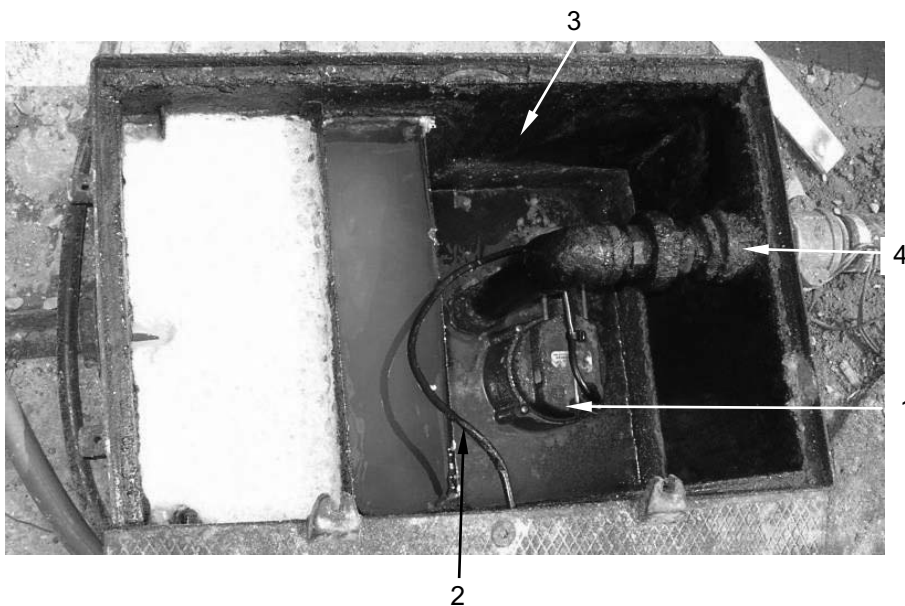
Rags (WP 0102 00, Item 79)  
Tape, Anti-seize, (WP 0102 00, Item 88)

**Equipment Condition**

Power and graywater hose disconnected.

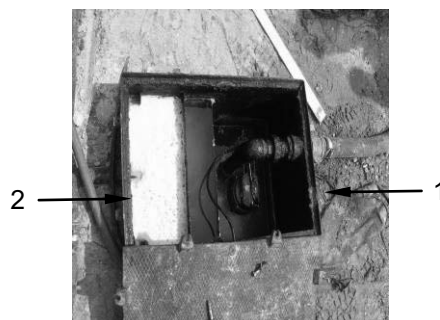
**INSPECT**

Inspect the grease trap for serviceability and proper functioning of components. Check the operation of the sump pump (1). Visually inspect the power cord for fraying or cuts (2). Note excessive rust on the trap walls (3) or inlet/outlet ports (4) through which contents may leak into the ground.



**SERVICE**

Service the grease trap (1) by removing accumulated grease and other contaminants (2) to re-establish the flow of wastewater through the trap.



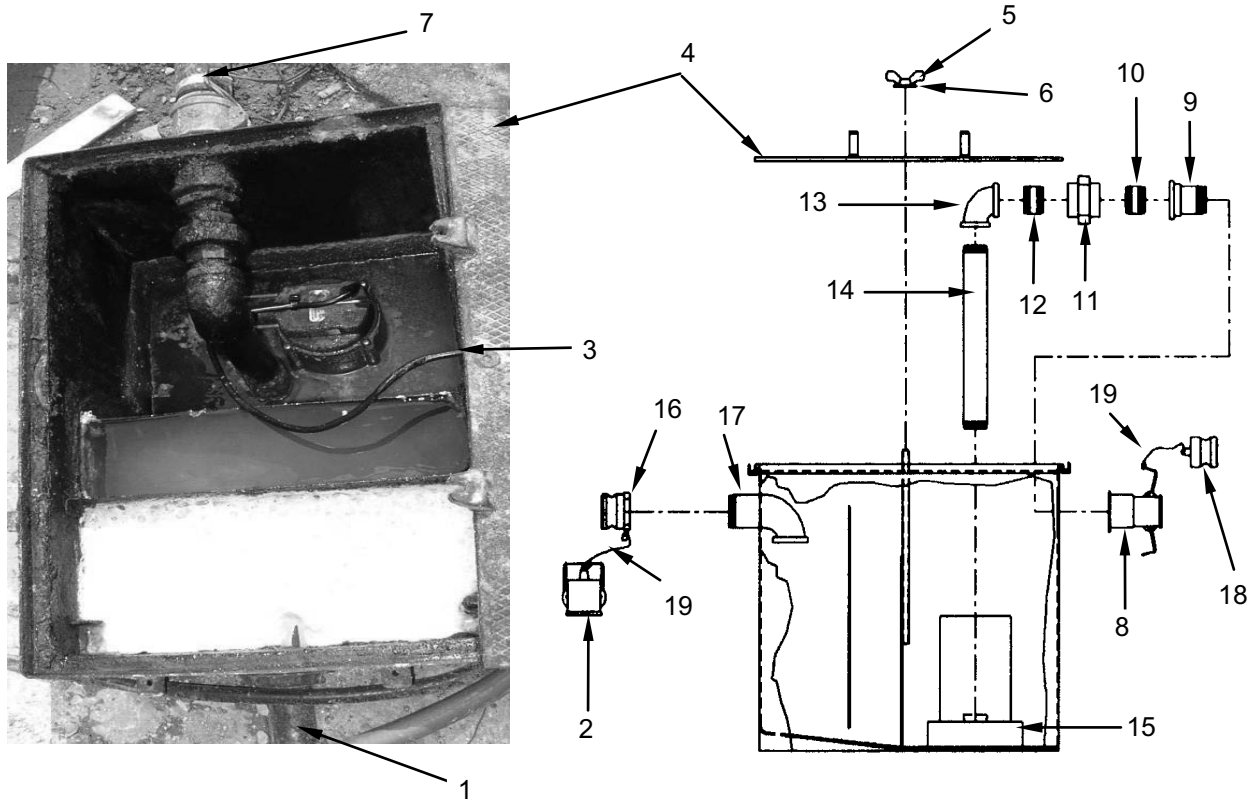
**REPLACE**

Remove and replace grease trap components as follows:

1. Notify food service personnel to temporarily shut off waste water discharge into the grease trap.
2. Remove inflow hose(s) (1) from the grease trap and install dust plug (2) onto the hose(s).
3. Let the sump pump evacuate as much of the waste water from the trap as the pump setting will allow, then remove remaining water with portable pump or bail by hand.
4. Unplug sump pump power cord (3).
5. Remove the cover (4) from the grease trap by removing the wing nut (5) and flat washer (6).
6. Disconnect output hose (7) from grease trap.
7. Remove the 2-inch QD coupling (8) from the hex bushing (9).
8. Separate hex bushing (9) from the straight nipple (10).
9. Remove the straight nipple (10) from the pipe union (11).
10. Remove the straight nipple (12) from the pipe union (11) from.
11. Using the leverage afforded by the 90<sup>o</sup> elbow (13) with the straight nipple (12) attached, unscrew this assembly together with the long nipple (14) from the sump pump. Separate this assembly only if one of the component parts must be replaced.
12. Remove the sump pump (15).
13. Replace the 1¼-inch inflow port QD fitting (16) by unthreading it from the inflow port pipe (17). Apply antiseize tape to the threads before installing a replacement QD fitting onto the inflow port pipe (17).
14. Place new sump pump (15) into position, protecting the power cord plug (3) from damage.
15. Re-install the straight nipple assembly, or separate, new parts consisting of the long nipple (14), 90<sup>o</sup> elbow (13), and straight nipple (12), separately.
16. Install the pipe union (11) onto the straight nipple (12), and the second straight nipple (10) onto the pipe union (11).
17. Install the hex bushing (9) onto the straight nipple (10).
18. Apply antiseize tape to pipe threads and install the 2-inch QD coupling (8) onto the hex bushing (9).
19. Replace the dust plug (18) and retaining chain (19), if necessary.
20. Plug in sump pump power cord and verify pump (15) operation.
21. Replace the grease trap cover (4) and secure with the flat washer (6) and wing nut (5).
22. Remove dust plug from waste water inflow hose (1) and reconnect to the grease trap inflow port.
23. Resume operation.

**NOTE**

If the grease trap condition has deteriorated to a point where it must be replaced entirely, requisition a new trap assembly using the information in WP 0093 00.

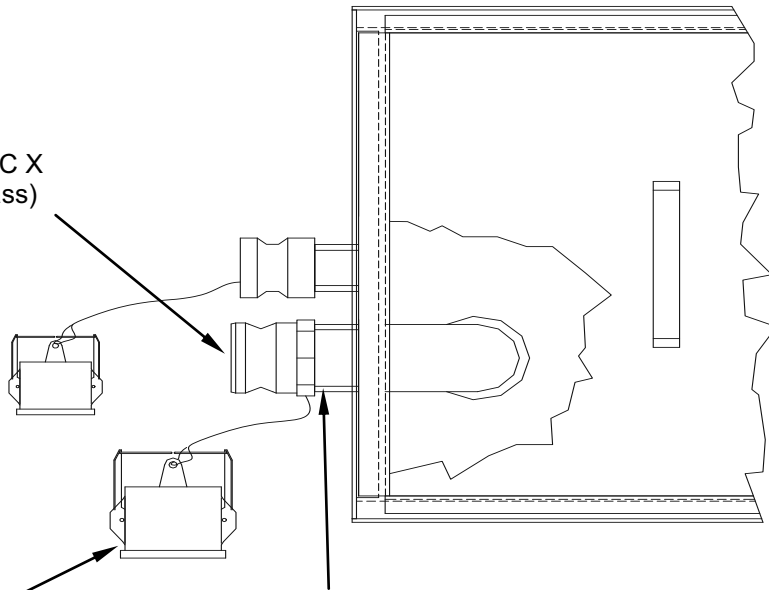


**NOTE**

When the ground is frozen, one of the torpedo heaters furnished with the MSCW can be used to thaw the area around the grease trap sufficiently to permit replacing components.

Engineering Change Proposal 06HE6034 has been applied to a number of grease traps that may be shipped to the field. The purpose of this change was to add a 2-inch inflow fitting to the trap allowing the electric kitchen to be connected. If a modified grease trap is at hand and the 2-inch fitting must be replaced, use the procedures described above for the 2-inch standard inflow fitting and replace the 2-inch fitting as shown below.

Coupling 1¼-inch, M, QDISC X  
2-inch M NPT, Class B (Brass)



Cap, dust, 2-inch, (Brass)

Inflow connection for  
Electric Kitchen (EK)

**END OF WORK PACKAGE**



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**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
ENVIRONMENTAL CONTROL UNIT (ECU) COMPONENTS  
REPAIR/REPLACE**

---

**INITIAL SETUP****Tools**

Tool Kit, General Mech. Automotive (WP 0083 00, Item 5)  
Tool Kit, Electrical Equipment (WP 0083 00, Item 4)

**Personnel Required**

One

**Materials/Parts**

Adhesive, Sealant, Silicone RTV (WP 0102 00, Item 2)  
Flux Paste (WP 0102 00, Item 41)  
Tape, Insulating, Electrical (WP 0102 00, Item 90)  
Rags, Wiping (WP 0102 00, Item 79)  
Solder, Tin Alloy (WP 0102 00, Item 83)

**Equipment Condition**

ECU turned OFF at least 30 minutes. Power disconnected.

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**REPAIR**

Repair of the ECU is limited to replacement of damaged components.

To repair the fresh air damper, proceed as follows:




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**WARNING**

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Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Remove pendant (4).
3. Using a drill bit slightly smaller than the rivet diameter, drill out six rivets (1).
4. Remove fresh air damper assembly (2) and any remaining rivet material.
5. Replace chain (3) if necessary.
6. Remove nut, lock washer, flat washer, screw, flat washer, and chain (3) from door (5). Replace these items if necessary as follows:
  - a. Attach new chain (3) to door (5) using flat washer, screw, flat washer, lock washer, and nut.
  - b. Pass chain (3) through frame (6) and attach pendant (4).
7. Replace hinge (7) if damaged, as follows:
  - a. Using drill bit slightly smaller than rivet diameter, drill out four rivets (8). Remove hinge (7) and any remaining rivet material.
  - b. Install new hinge (7) and secure using four rivets (8).

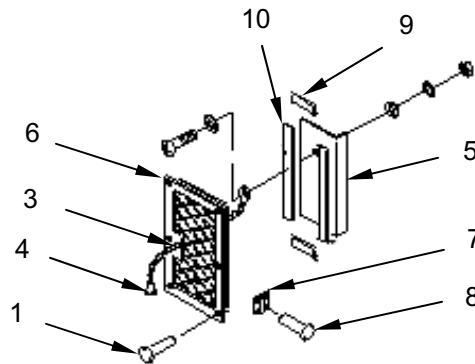
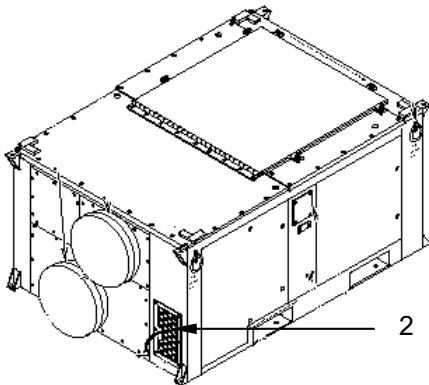
8. Replace gasket (9) or (10) if damaged, as follows:
  - a. Remove any damaged gasket (9) or (10) material by pulling or scraping as much as possible away from the metal surface.



**WARNING**

Cleaning solvent used to clean parts is flammable potentially dangerous to personnel and property. Do not use near flame or excessive heat.

- b. Using cleaning solvent and rag, clean any remaining adhesive from the metal surface.
  - c. Coat the mating surfaces of the metal and the new gasket (9) or (10) with adhesive.
  - d. Let both surfaces air dry until the adhesive is tacky but will not stick to fingers.
  - e. Starting with an end, carefully attach the gasket (9) or (10) to the metal surface. Press firmly for complete contact.
9. Install fresh air damper assembly (2) and secure using six rivets (1).



To repair wires, cables, and harnesses, proceed as follows:



**WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Open/remove panels and covers on the ECU (1) as necessary to access the wire (2), cable, or harness (3).
3. Cut or remove wire ties as necessary.
4. Tag and disconnect wire leads (4) from components as necessary to isolate the wire, cable, or harness being tested. Refer to the following schematic as necessary.



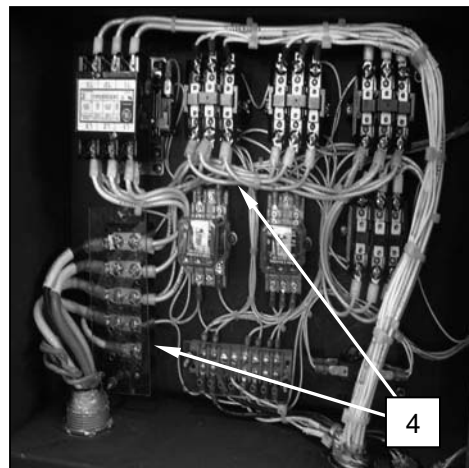
## WARNING

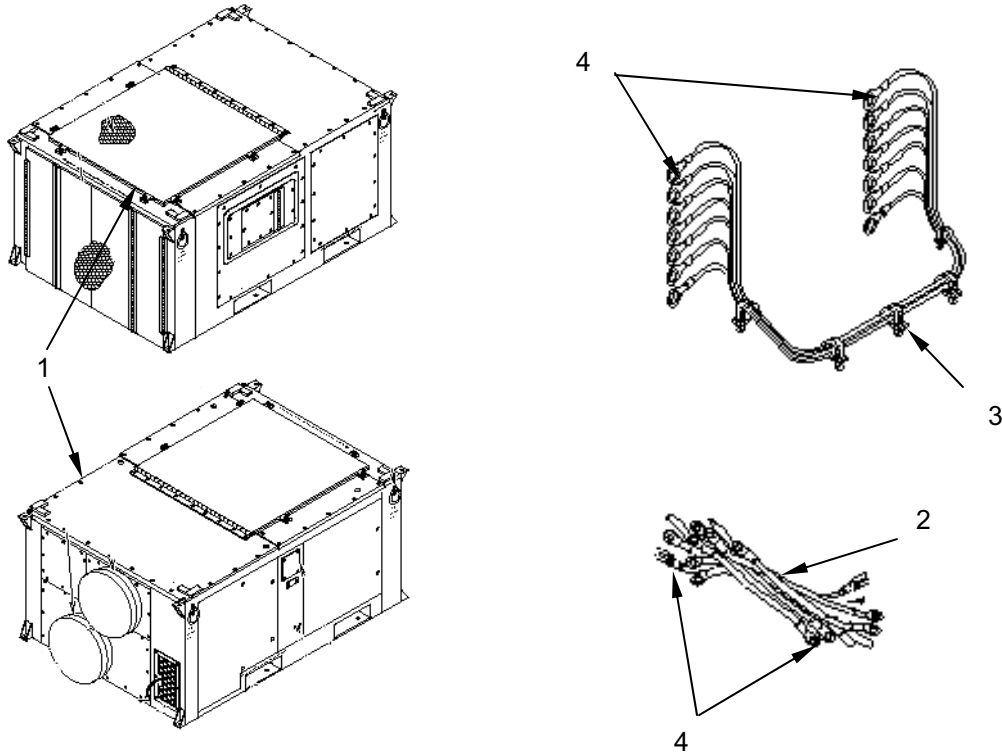
Solder and flux contain materials, which are hazardous to health. Avoid breathing vapors or fumes from soldering operations. Perform operations only in well-ventilated areas. Wash hands with soap and water after handling solder and flux. Wear thermal gloves and protective goggles or face shield to protect against burns.

## NOTE

Repairs can be performed to replace terminal ends or to splice wire when cut.

5. Soldering Connections. Wire connections must be made mechanically sound before they are soldered; solder alone does not provide sufficient strength to prevent breakage. Joining surfaces of connections to be soldered must be clean and bright. Flux should be brushed onto the joint before soldering. Wires should always be heated to the point at which the solder will melt completely and flow into all parts of the joint – remember to allow the joint to heat the solder. Excessive build up of solder "gobs" on the joint should be avoided or removed.
6. Insulating Joints. The preferred method of insulating electrical joints is by the use of heat-shrink tubing. To apply, cut a piece of heat-shrink tubing of suitable diameter to a length of one inch (2.5 cm) for covering joints at terminals or connectors, or to a length about ½ inch (1.3 cm) longer than the joint to be insulated. Slide the tubing over the wire before making the joint. After the joint is made, slide the tubing so that it covers the joint and shrink in place with moderate heat.
7. Splicing Wire. To repair broken or cut wires that are otherwise sound, the mating ends can be stripped and spliced. Solder and apply insulation as described above.
8. Crimping Terminals. To install a terminal on the end of a wire, strip ¼ to ½ inch (0.6-1.3 cm) of insulation from the end of the wire and apply a one inch (2.4 cm) piece of heat shrink tubing (if the terminals are of the uninsulated type). Insert wire-end into the shank of the terminal. Crimp the shank and install heat-shrink tubing, if necessary.
9. Connect wire lead(s) (4) to components using tags and wiring diagram. Refer to the following schematic as necessary. Remove tags.
10. Install tiedown straps as necessary and tighten any clamp(s) that were loosened for removal.
11. If necessary, apply silicone RTV into evaporator frame grommets to seal evaporator enclosure.
12. Install/close any covers or panels on ECU (1) removed to access wire (2), cable, or harness (3).

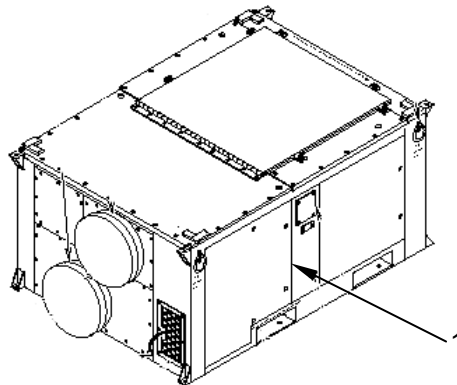


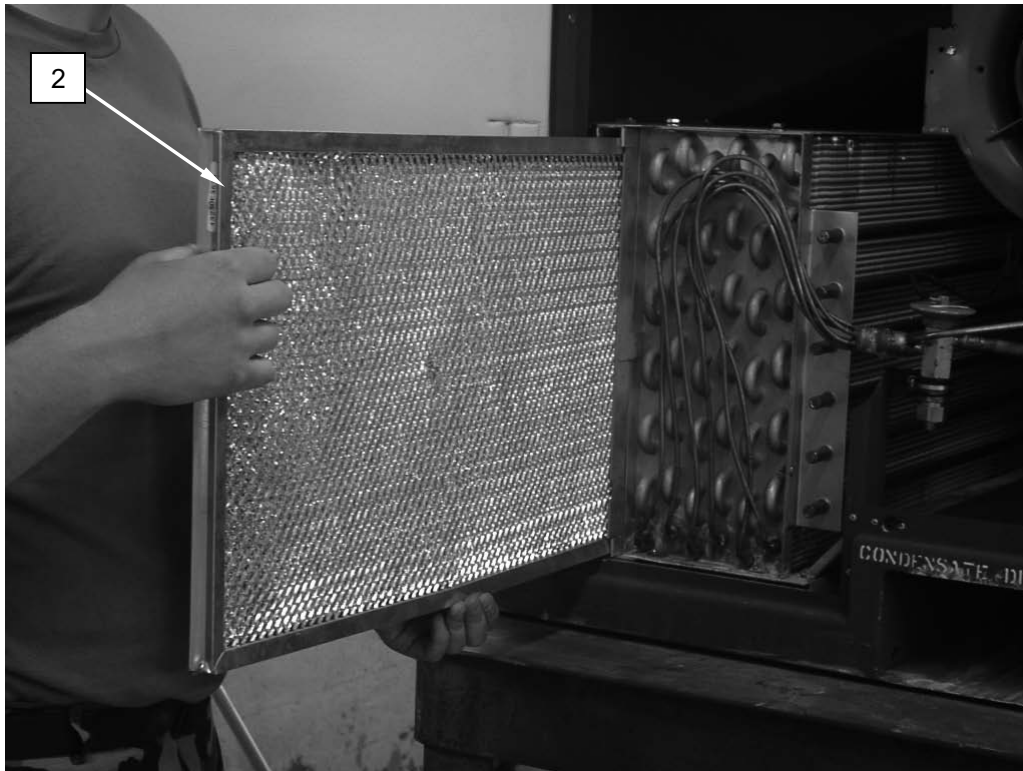


**REPLACE**

To replace the air filter, proceed as follows:

1. Open the left front door (1).
2. Remove the air filter (2).
3. Install the replacement air filter (2).
4. Close the left front door (1).





To replace the circuit breaker, proceed as follows:

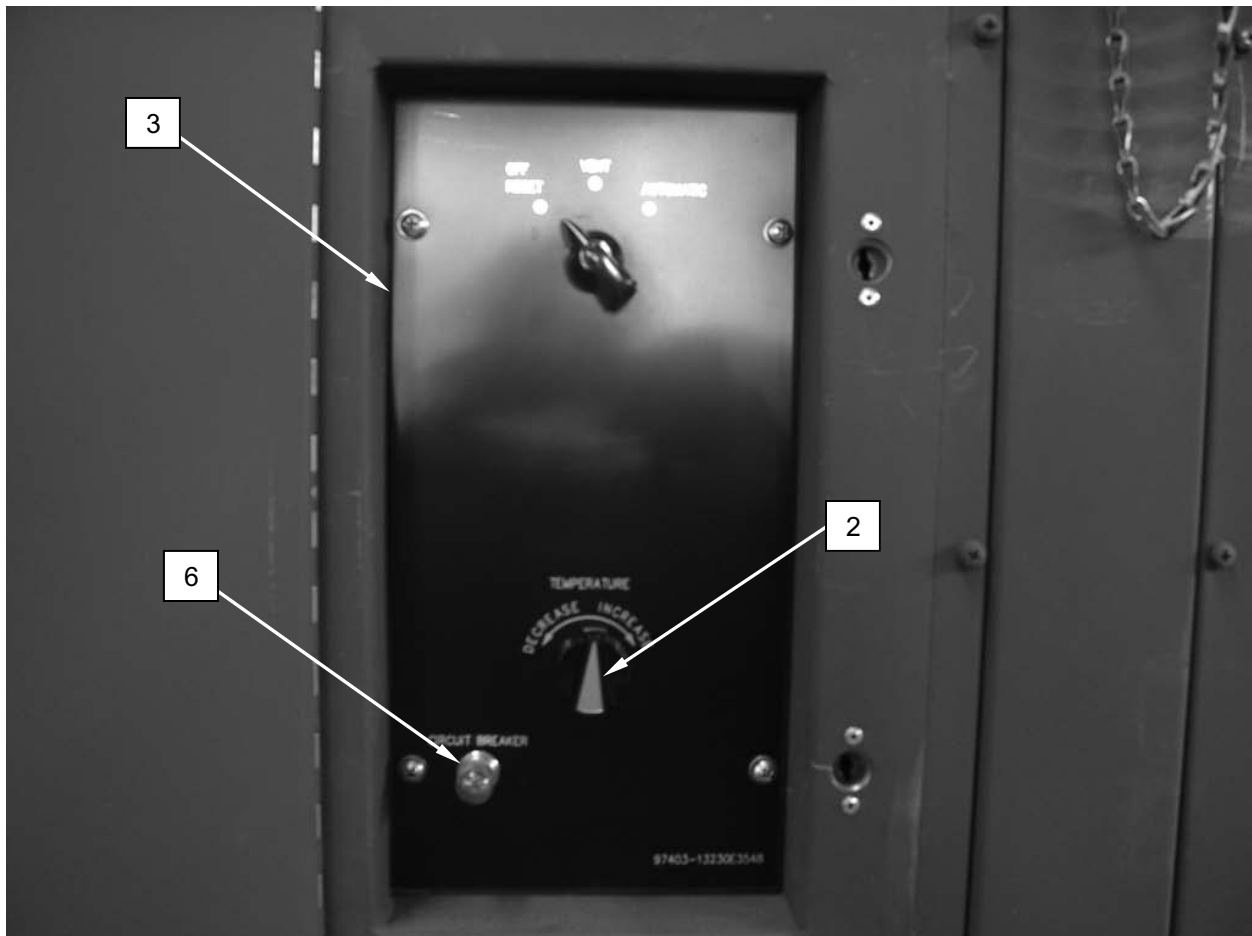
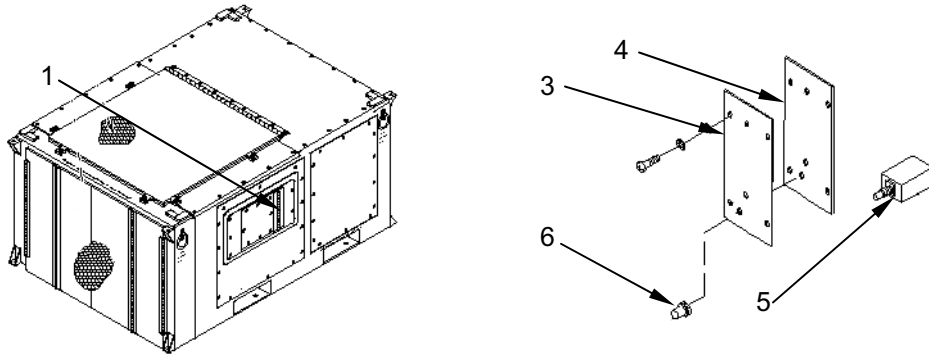


### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Loosen two fasteners and open control panel cover door (1).
3. Loosen setscrew and remove the thermostat knob (2).
4. Remove four screws, lock washers, and flat washers from panel (3).
5. Carefully pull panel (3) and sub panel (4) out as far as wire leads will allow.
6. Tag and disconnect wire leads from circuit breaker (5).
7. Remove reset button seal (6).
8. Remove circuit breaker (5).
9. Install new circuit breaker (5).
10. Install reset button seal (6).

11. Connect wire leads to circuit breaker using tags and wiring diagram. Refer to the diagram following this procedure. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above. Remove tags.
12. Carefully push instruction plate (3) and sub panel (4) into place.
13. Install four flat washers, lock washers, and screws onto panel (3).
14. Install thermostat knob (2) and tighten setscrew.
15. Close control panel cover door (1) and tighten two fasteners.



To replace the rotary switch, proceed as follows:



**WARNING**

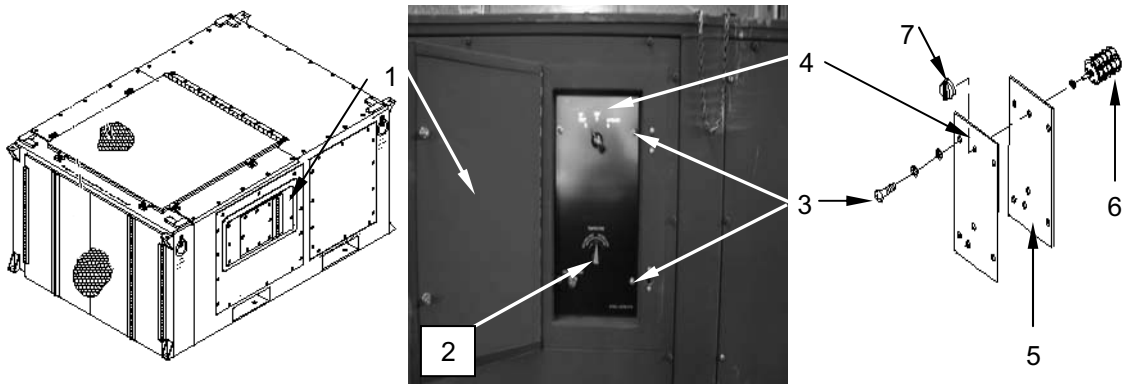
Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Loosen two fasteners and open control panel cover door (1).
3. Loosen setscrew and remove thermostat knob (2).
4. Remove four screws, lock washers, and flat washers (3) from panel (4).
5. Carefully pull panel (4) and sub panel (5) out as far as wire leads will allow.

**NOTE**

Wire by wire connection between the old rotary switch and the replacement rotary switch may speed installation.

6. Tag and disconnect wire leads from rotary switch (6).
7. Remove rotary switch knob (7) and rotary switch (6).
8. Install new rotary switch (6) and rotary switch knob (7).
9. Connect wire leads to rotary switch (6) using tags and wiring diagram. Refer to the diagram following the procedure to replace the circuit breaker. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above. Remove tags.
10. Carefully push panel (4) and sub panel (5) into place.
11. Install four flat washers, lock washers, and screws (3) onto panel (4).
12. Install thermostat knob (2) and tighten setscrew.
13. Close control panel cover door (1) and tighten two studs.



To replace the thermostat, proceed as follows:



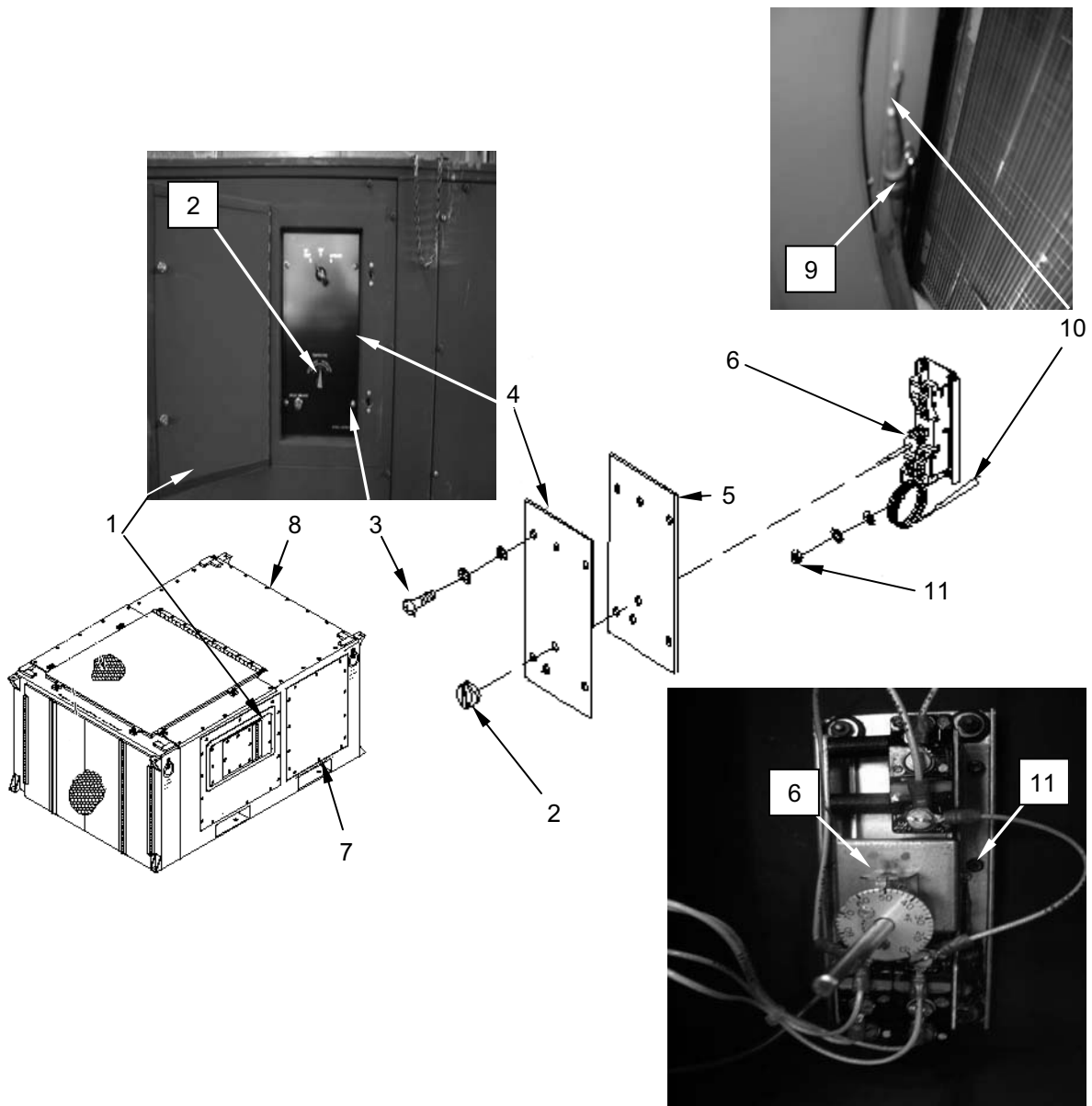
### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source at least ½ hour before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Loosen two fasteners and open control panel cover door (1).
3. Loosen setscrew and remove thermostat knob (2).
4. Remove four screws, lock washers, and flat washers (3) from panel (4).
5. Carefully pull panel (4) and sub panel (5) out as far as wire leads will allow.
6. Tag and disconnect wire leads from thermostat (6). Refer to the diagram following the procedure to replace the circuit breaker. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above.
7. Remove right panel (7) and rear panels (8).
8. Loosen clamp (9) securing thermostat sensing bulb (10).
9. Remove four nuts, lock washers, and flat washers (11) from thermostat (6).
10. Carefully remove thermostat (6).
11. Route sensing bulb (10) of new thermostat through unit and install new thermostat (6) using four flat washers, lock washers, and nuts (11).
12. Slip thermostat sensing bulb (10) into clamp (9) and secure.
13. Install right front (7) and rear panels (8).
14. Connect wire leads to thermostat (6) using tags and wiring diagram. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above. Remove tags.
15. Carefully push panel (4) and sub panel (5) into place.
16. Install four flat washers, lock washers, and screws (3) onto panel (4).
17. Install thermostat knob (2) and tighten setscrew.



18. Close control panel cover door (1) and tighten two fasteners.



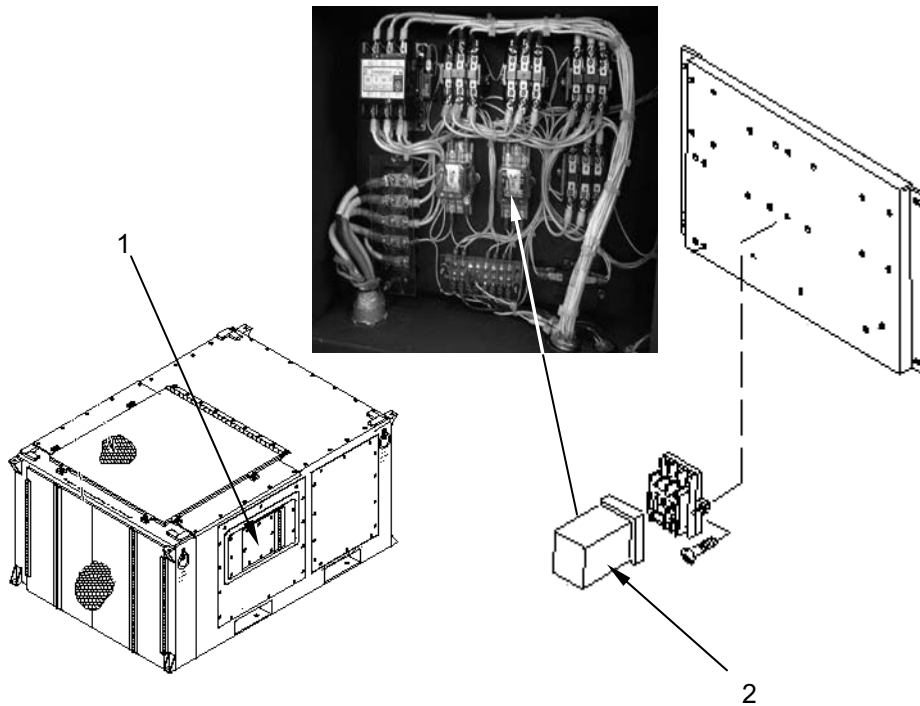
To replace relay K4 or K5, proceed as follows:



### WARNING

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Remove control panel cover (1).
3. Remove relay (2). Refer to the diagram following the procedure to replace the circuit breaker. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above.
4. Install new relay (2).
5. Install control panel cover (1).



To replace relay K3, proceed as follows:

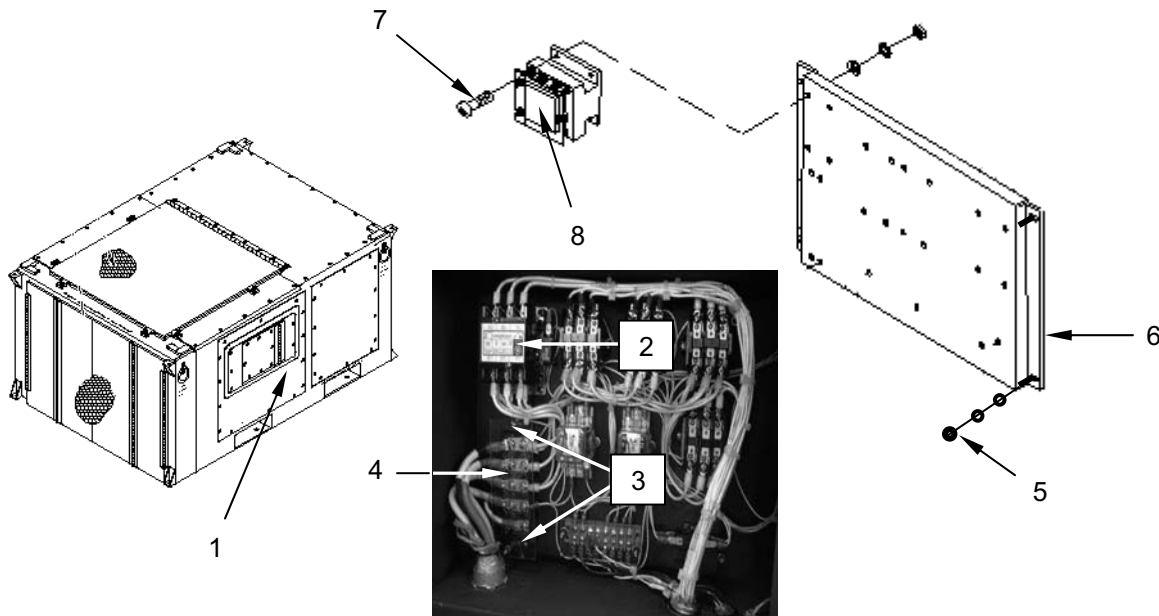


### WARNING

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Remove control panel cover (1).

3. Tag and disconnect wire leads from relay (2). Refer to the diagram following the procedure to replace the circuit breaker. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above.
4. Remove two retainer nuts (3) and clear plastic cover (4).
5. Remove four nuts, lock washers, and flat washers (5) from sub-panel (6).
6. Carefully pull sub-panel (6) out as far as wire leads will allow.
7. Remove four nuts, lock washers, flat washers, screws (7) and plastic guard from relay (2). Remove relay (2).
8. Install new relay (2) and plastic guard. Secure with four screws, flat washers, lock washers, and nuts (7).
9. Carefully push sub-panel (6) into place and install four flat washers, lock washers, and nuts (5).
10. Install clear plastic terminal board cover (4) and secure with two retainer nuts (3).
11. Connect wire leads to relay (2) using tags and wiring diagram. Refer to the diagram following the procedure to replace the circuit breaker. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above. Remove tags.
12. Install control panel cover (1).



To replace relay K1, K2, K7, and K8, proceed as follows:

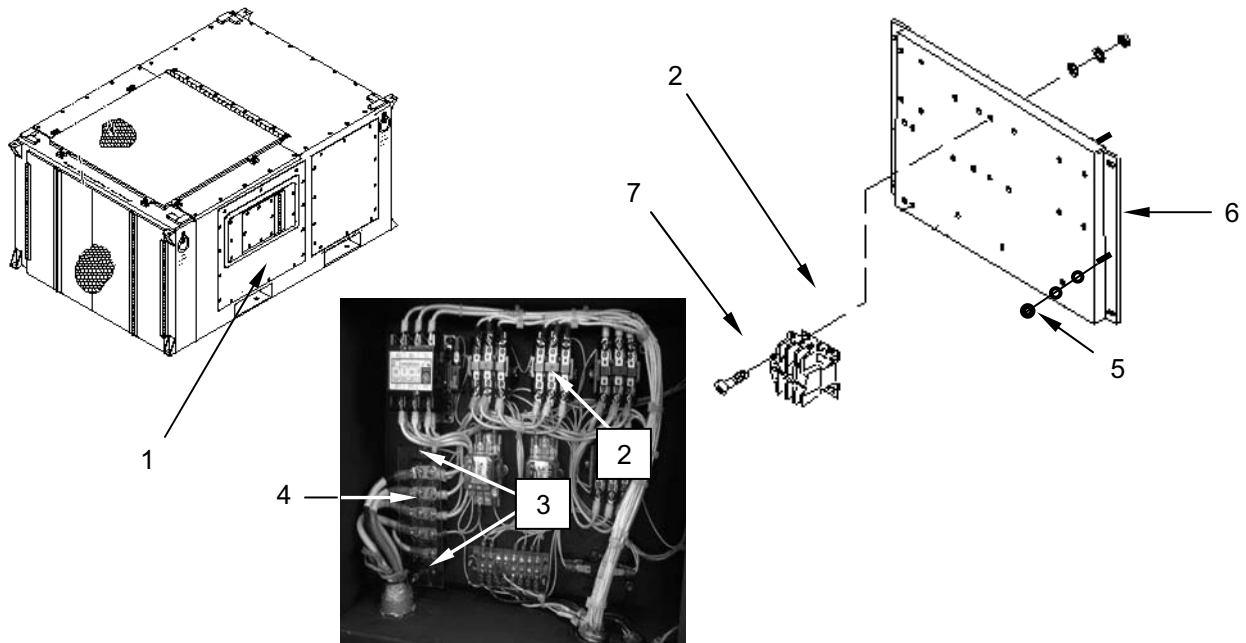


### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.

2. Remove control panel cover (1).
3. Tag and disconnect wire leads from relay (2). Refer to the diagram following the procedure to replace the circuit breaker. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above.
4. Remove two retainer nuts (3) and clear plastic cover (4).
5. Remove four nuts, lock washers, and flat washers (5) from sub-panel (6).
6. Carefully pull sub-panel out (6) as far as wire leads will allow.
7. Remove two nuts, lock washers, flat washers, and screws (7) from relay (2). Remove relay (2).
8. Install new relay (2) with two screws, flat washers, lock washers, and nuts (7).
9. Carefully push sub-panel (6) into place and install four flat washers, lock washers, and nuts (5).
10. Install clear plastic terminal board cover (4) and secure with two retainer nuts (3).
11. Connect wire leads to relay (2) using tags and wiring diagram. Refer to the diagram following the procedure to replace the circuit breaker. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above. Remove tags.
12. Install control panel cover (1).



To replace time delay relay K6, proceed as follows:

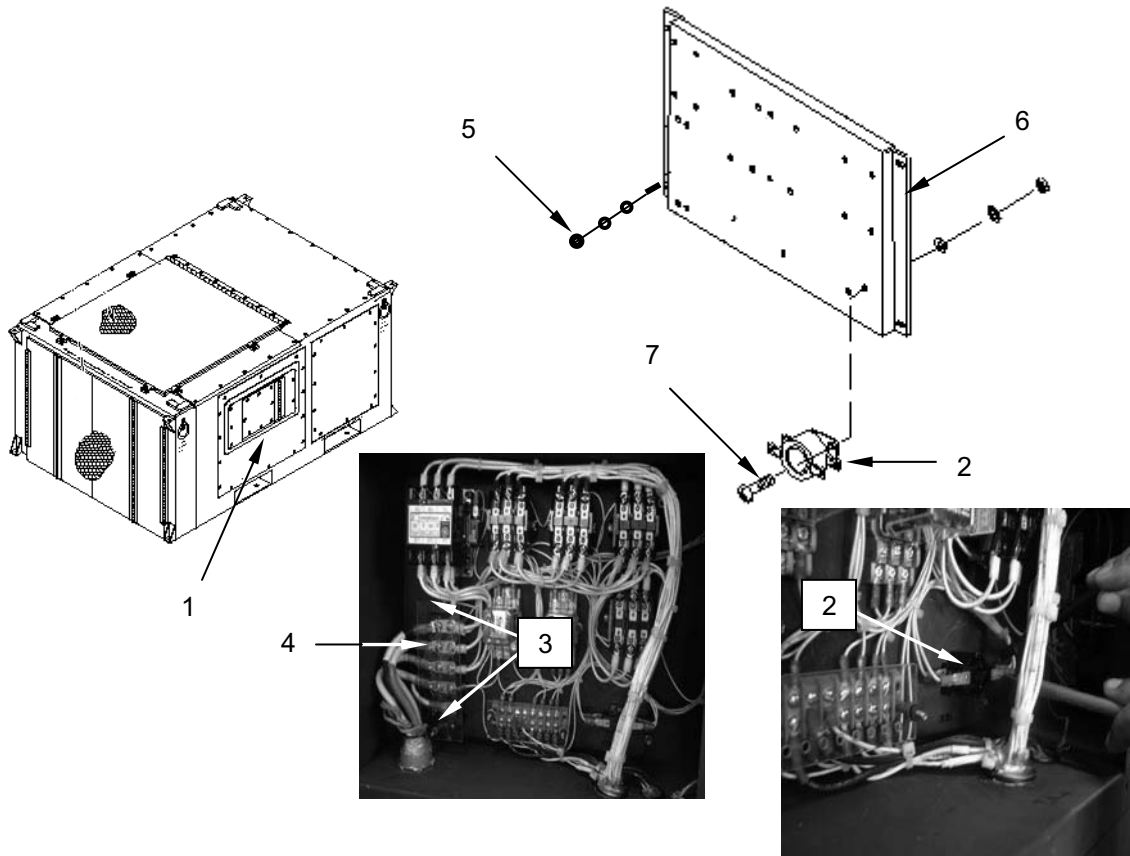


**WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.

2. Remove control panel cover (1).
3. Tag and disconnect wire leads from time delay relay (2). Refer to the diagram following the procedure to replace the circuit breaker. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above.
4. Remove two retainer nuts (3) and clear plastic terminal board cover (4).
5. Remove four nuts, lock washers, and flat washers (5) from sub-panel (6).
6. Carefully pull sub-panel (6) out as far as wire leads will allow.
7. Remove two nuts, lock washers, flat washers, and screws (7) from relay (2). Remove relay (2).
8. Install new time delay relay (2). Secure with two screws, flat washers, lock washers, and nuts (7).
9. Carefully push sub-panel (6) into place and install four flat washers, lock washers, and nuts (5).
10. Install clear plastic terminal board cover (4) and secure with two retainer nuts (3).
11. Connect wire leads to time delay relay (2) using tags and wiring diagram. Refer to the diagram following the procedure to replace the circuit breaker. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above. Remove tags.
12. Install control panel cover (1).



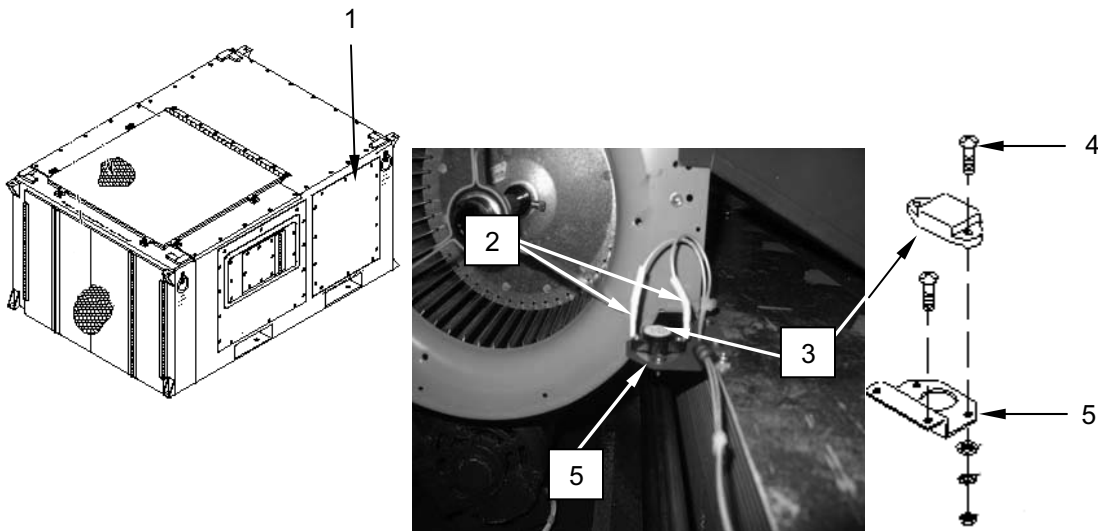
To replace the high temperature cutout switch, proceed as follows:



### WARNING

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Remove right panel (1).
3. Tag and disconnect wire leads (2) from high temperature cutout switch (3). Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above.
4. Remove two nuts, lock washers, flat washers, and screws (4) securing the high temperature cutout switch (3) to the bracket (5). Remove the high temperature cutout switch (3).
5. Install a new temperature cutout switch (3) onto the bracket (5) with two screws, flat washers, lock washers, and nuts (4).
6. Connect wire leads (2) to high temperature cutout switch (3) using tags and wiring diagram. Tag and disconnect wire leads from high temperature cutout switch. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above.
7. Remove tags.
8. Install right panel (1).



To replace terminal board TB1 and TB2, proceed as follows:



### WARNING

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Remove control panel cover (1).
3. Remove nuts, lock washers, flat washers, and clear plastic cover (2) from terminal board(s) (3) to be removed.
4. Tag and disconnect wire leads from terminal board (s) (3) to be removed. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above.

### NOTE

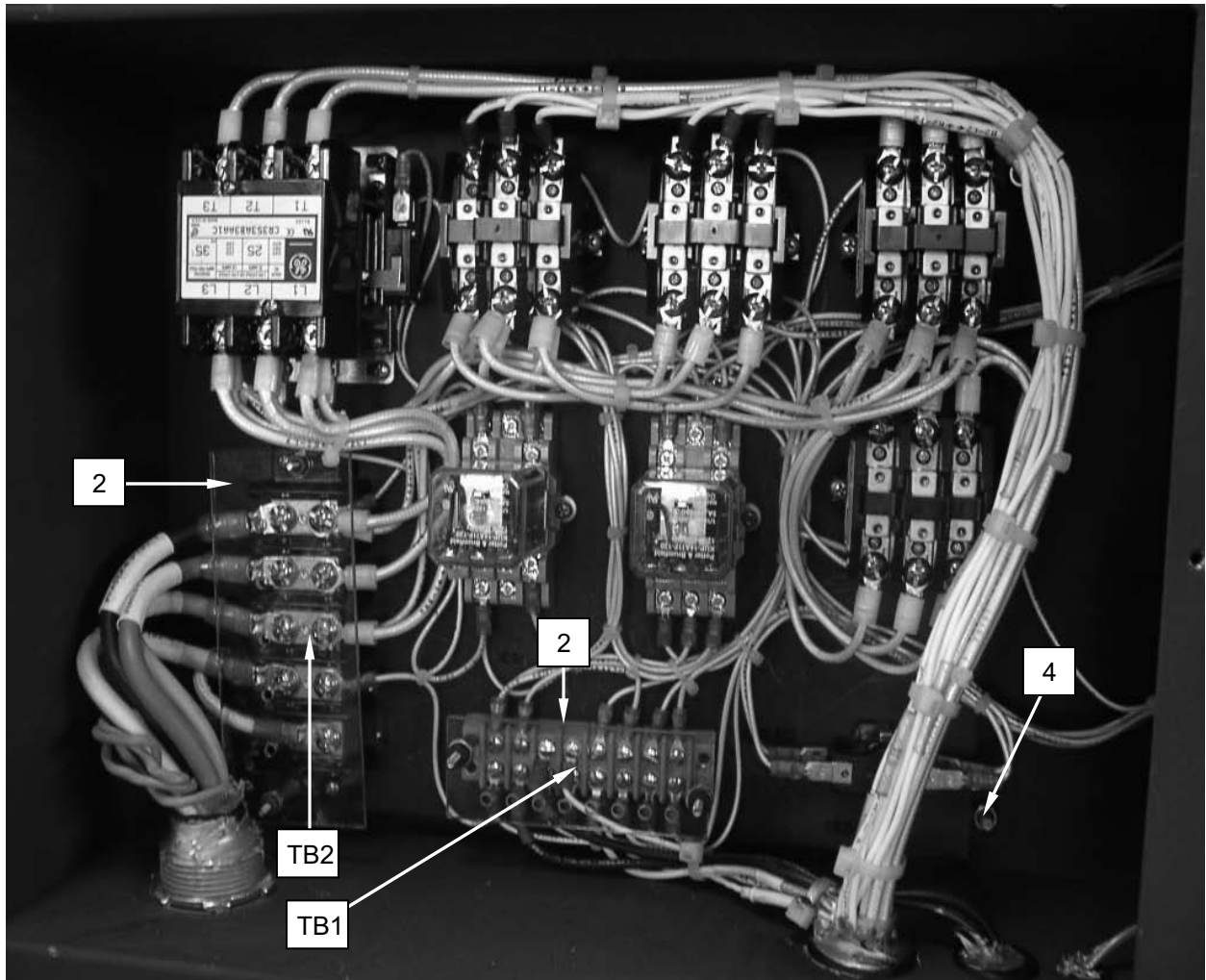
Steps 5. and 6. are only necessary when replacing terminal board 2 (TB2).

5. Remove four nuts, lock washers, and flat washers (4) from sub-panel (5).
6. Carefully pull sub-panel (5) out as far as wire leads will allow.
7. Remove nuts, flat washers, spacer posts, and screws (6) from terminal board(s) to be replaced (3).
8. Install new terminal board (3), with screws, spacer posts, flat washers, and nuts (6).

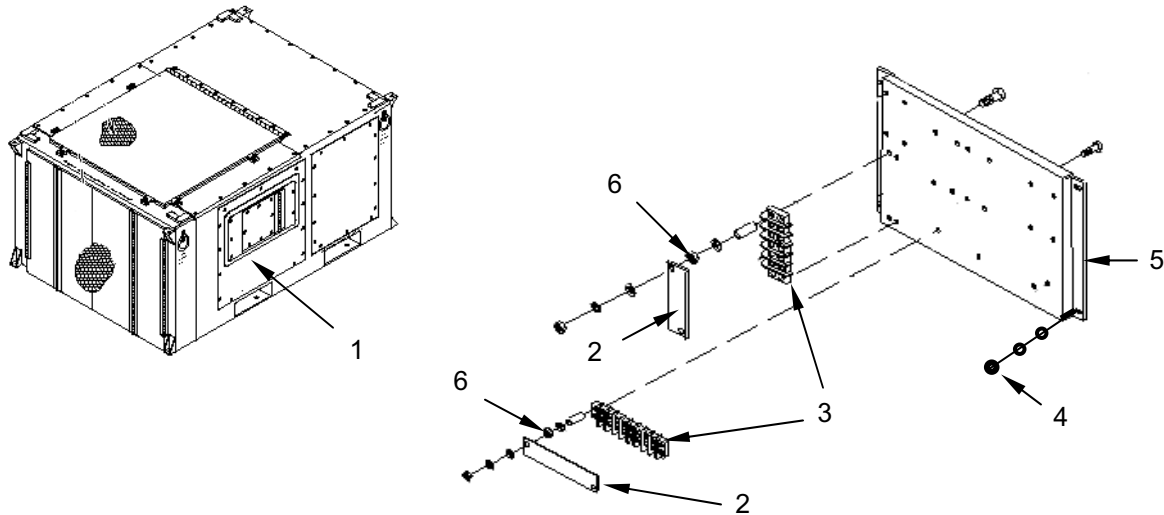
### NOTE

Step 9. is only necessary when replacing terminal board 2 (TB2).

9. Carefully push sub-panel (5) into place and install four flat washers, lock washers, and nuts (4).
10. Connect wire leads to new terminal board(s) (3) using tags and wiring diagram. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above. Remove tags.
11. Install clear plastic terminal board cover (2), with flat washers, lock washers, and nuts on new terminal board(s).
12. Install control panel cover (1).







To replace terminal board TB3, proceed as follows:

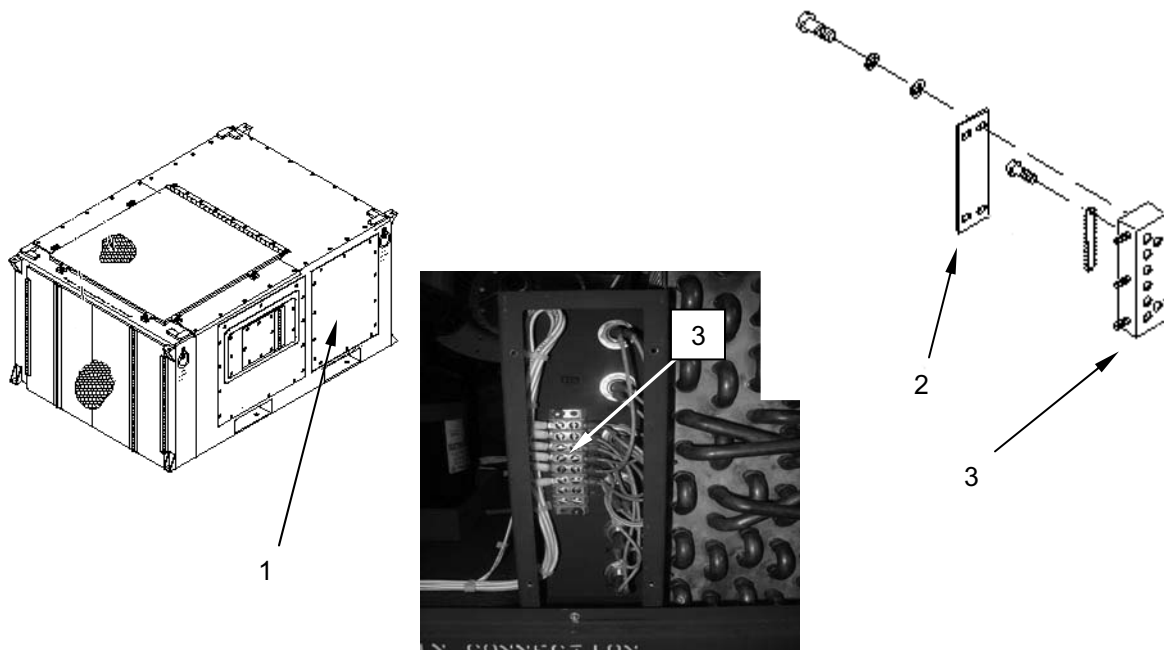


### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Remove right panel (1).
3. Remove four screws, lock washers, flat washers, and cover (2).
4. Tag and disconnect wire leads from terminal board (3). Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above.
5. Remove two nuts, flat washers, screws, and terminal board (3).
6. Install new terminal board (3), two screws, flat washers, and nuts.
7. Connect wire leads to terminal board (3) using tags and wiring diagram. Refer as necessary to the schematic following the procedure to repair wires, cables, and harnesses above. Remove tags.
8. Install cover (2) and retain with four flat washers, lock washers, and screws.

9. Install right panel (1).



To replace the condenser fan, proceed as follows:



### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Remove condenser fan grille (1).
3. Loosen two condenser fan setscrews.
4. Remove condenser fan (2) with condenser fan puller.

### **NOTE**

The condenser fan key may come off with the fan or may stay on the motor shaft. If damaged, replace the key.

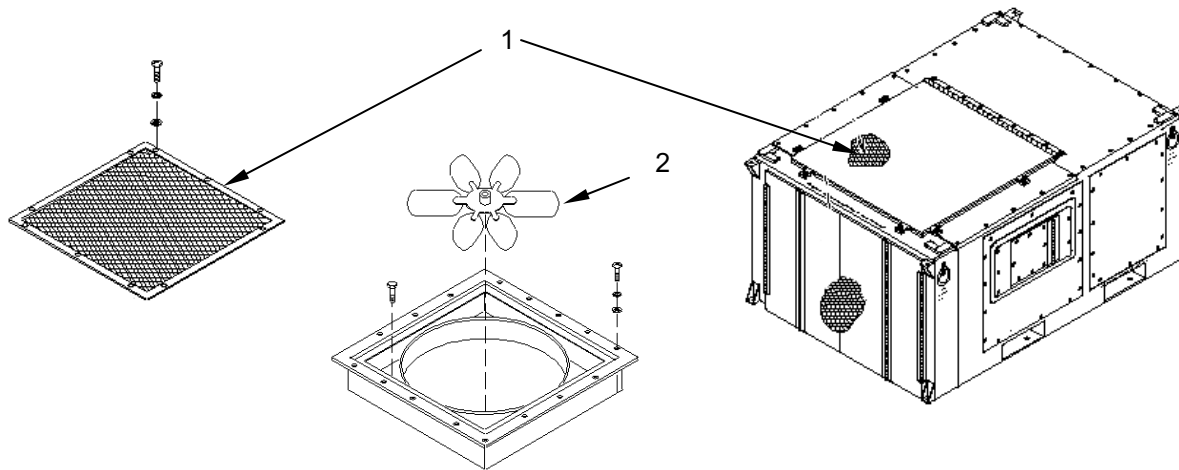
5. Install the condenser fan key in the condenser fan motor shaft keyway.

### **NOTE**

Ensure that the condenser fan is installed with sufficient clearance from the condenser fan motor.

6. Install new condenser fan (2) and tighten two setscrews.

7. Install condenser fan grille (1).



To replace the condenser fan motor, proceed as follows:



### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

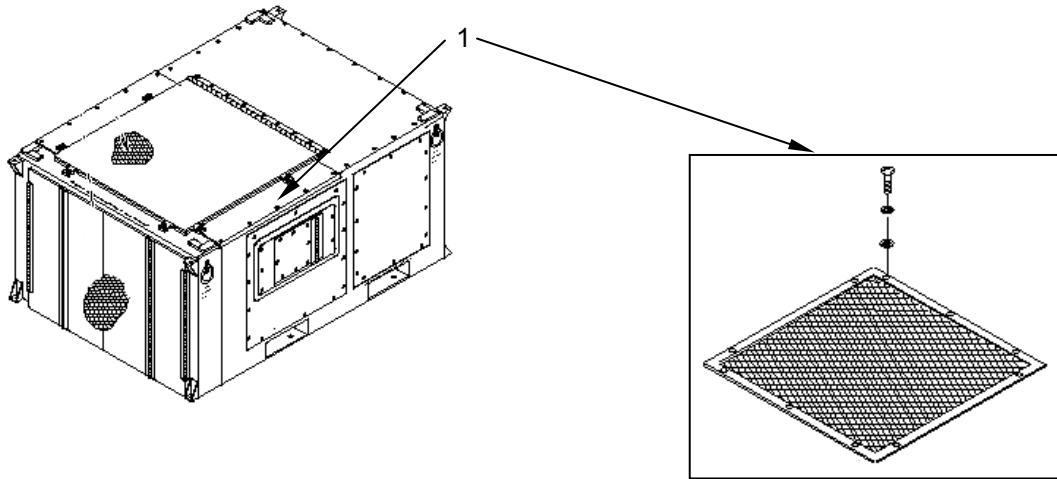
1. Be sure that the power has been disconnected.
2. Remove condenser fan grille (1).
3. Remove condenser fan (2) as described in previous procedure.
4. Tag and disconnect wire leads (3) from condenser fan motor (4).
5. Support condenser fan motor (4) then loosen four clamping bolts (5). Carefully remove condenser fan motor.
6. Install new condenser fan motor (4) and support in place.
7. Tighten four clamping bolts (5).
8. Connect wire leads (3) to condenser fan motor (4) using tags and wiring diagram. Remove tags.

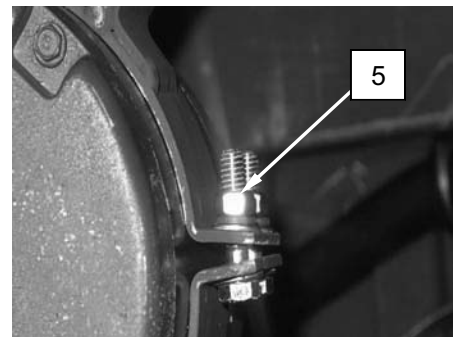
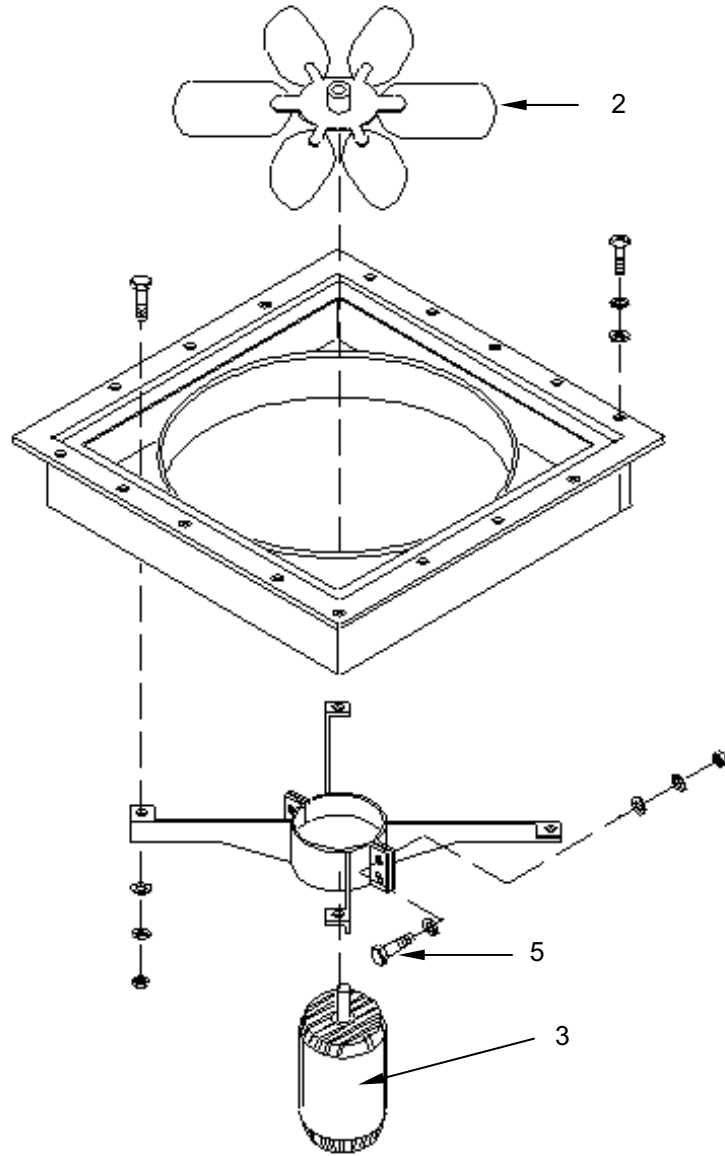
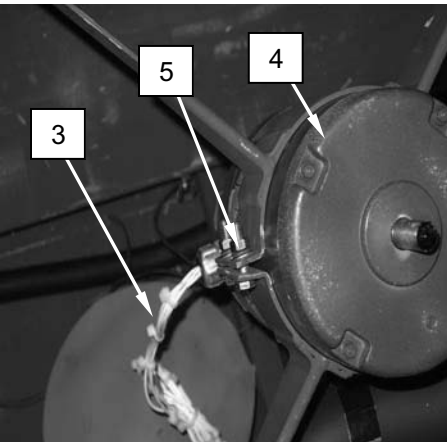
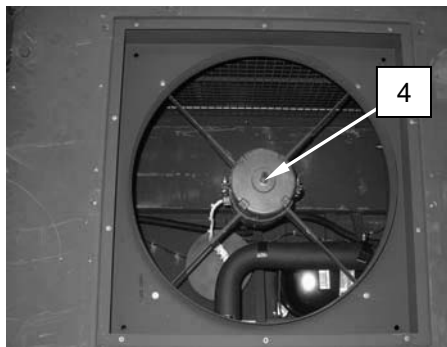
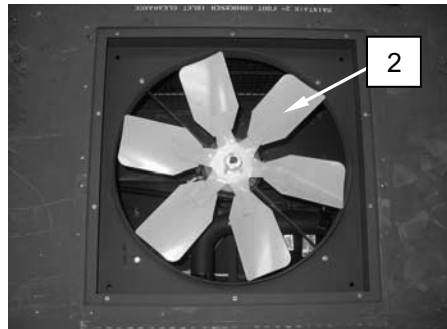
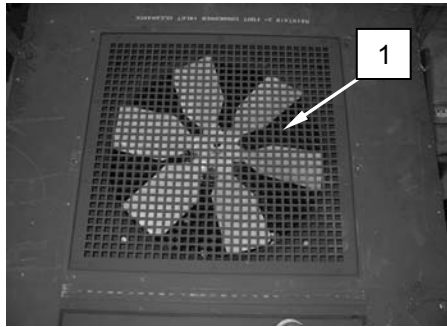
### **NOTE**

Ensure that the condenser fan is installed with sufficient clearance from the condenser fan motor.

9. Install condenser fan (2).

10. Install condenser fan grille (1).





To replace the condenser fan mount and venturi, proceed as follows:



**WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Remove condenser fan grille.
3. Remove the condenser fan (1) and motor (2) as described in the previous procedure.
4. Remove sixteen screws, lock washers, and flat washers (3) from condenser fan venturi (4).



**WARNING**

The venturi and mount is a four person lift. To prevent injuries, ensure personnel is available before attempting to lift the venturi.

5. Lift venturi (4) with mount (5) out of ECU frame.
6. Remove four nuts, lock washers, flat washers, and screws (6) from condenser fan mount (5).
7. Remove condenser fan mount (6) from venturi (4).
8. Install new condenser fan mount (5), using four screws, flat washers, lock washers, and nuts (6) onto venturi (4).

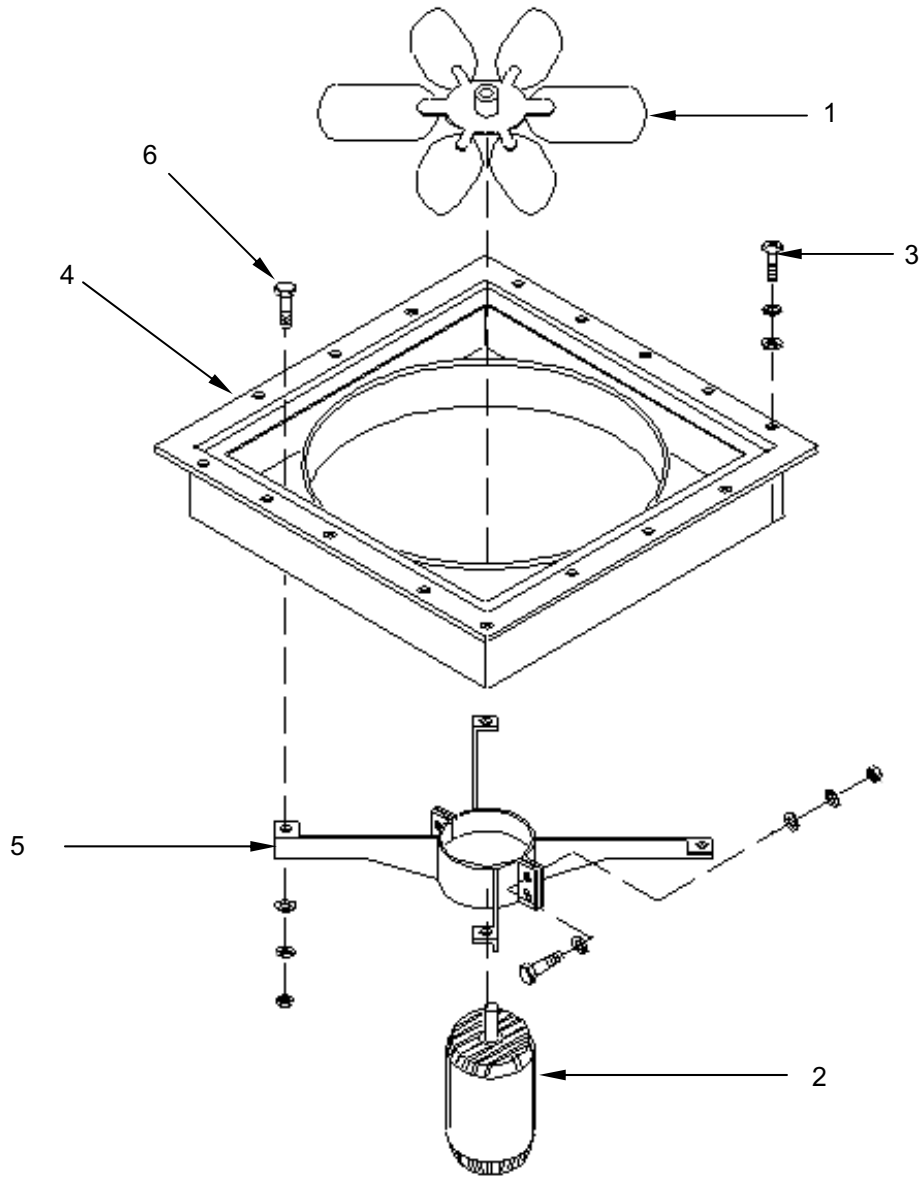


**WARNING**

The venturi and mount is a four person lift. To prevent injuries, ensure personnel is available before attempting to lift the venturi.

9. Install condenser fan venturi (4) with mount (5) into ECU frame, and secure using sixteen flat washers, lock washers, and screws (3).
10. Install condenser fan (1) and motor (2) as described in previous procedure.

11. Install condenser fan grille.



To replace the V-belt, proceed as follows:



### **WARNING**

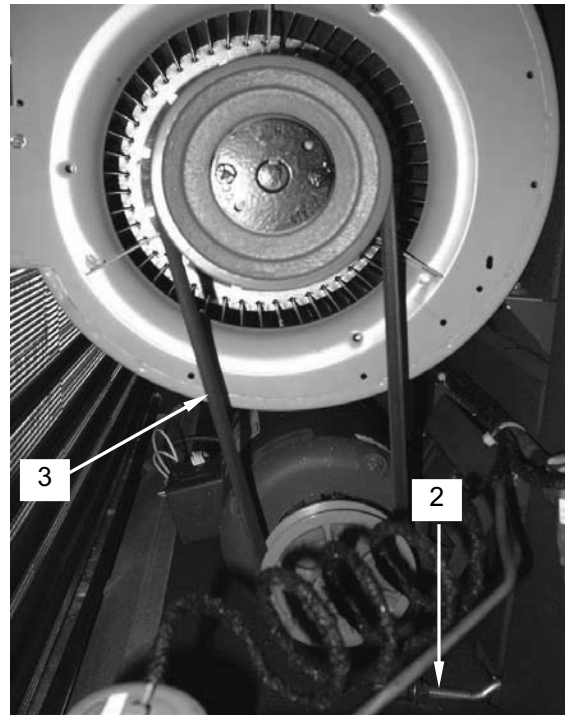
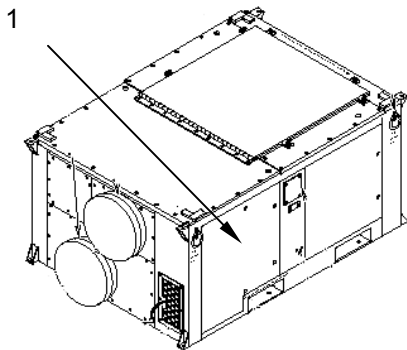
Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Open left front door (1).
3. Back off the evaporator fan adjusting screw (2) to release tension on V-belt (3).
4. Remove V-belt (3).

### **NOTE**

Use only specified replacement belt of the same size.

5. Install new V-belt (3) onto pulley as noted during removal. Adjust and tighten evaporator fan adjusting screw (2) until V-belt deflects about  $\frac{3}{8}$  inch when four pounds of force is applied to the mid-point of the belt.
6. Close left front door (1).





To replace the evaporator fan motor, proceed as follows:

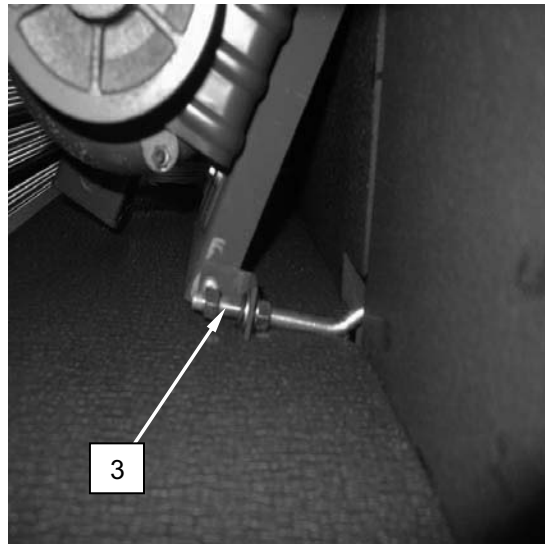
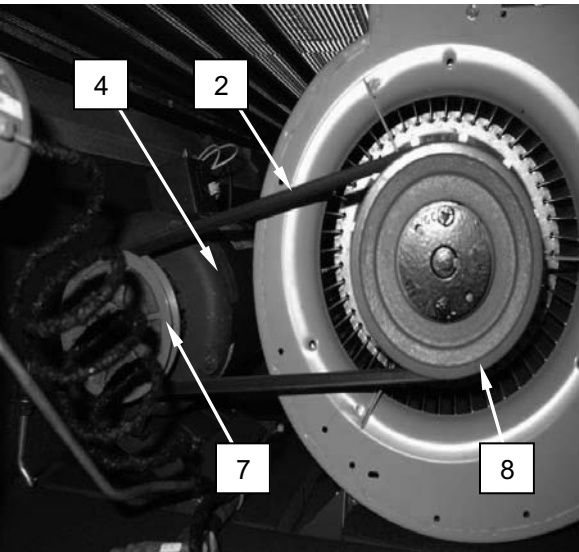
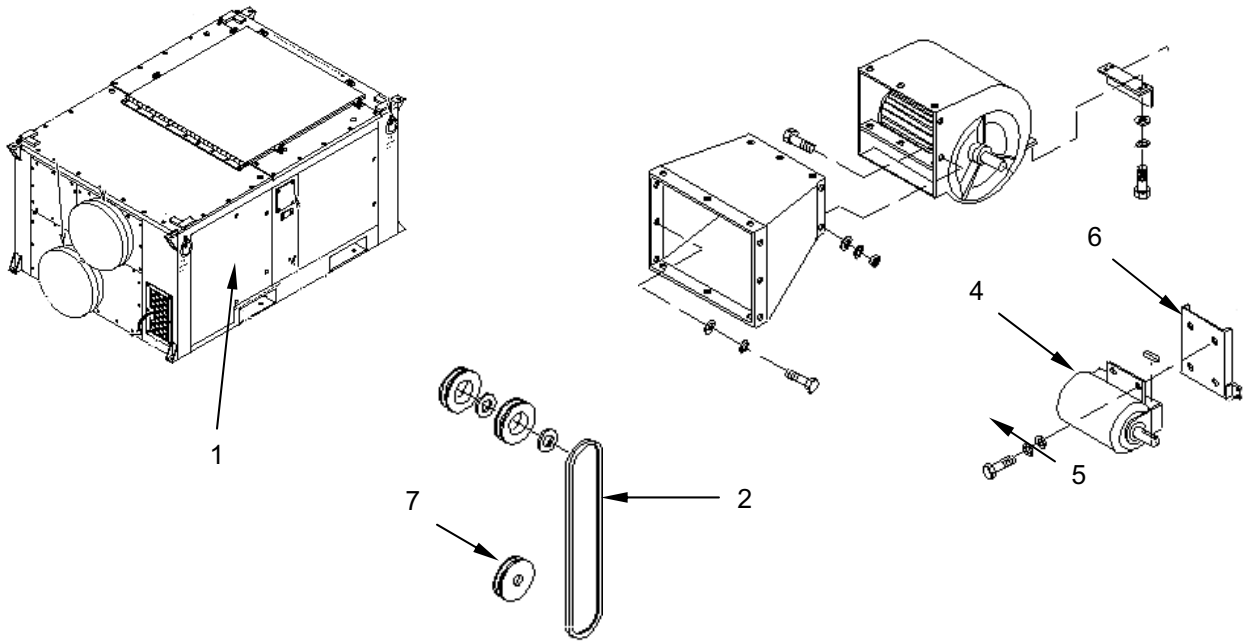


### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Ensure that the power has been disconnected.
2. Open left front door (1).
3. Loosen the tension of the V-belt (2) with the adjusting bolt (3).
4. Remove V-belt (2).
5. Support evaporator fan motor (4) then remove four screws, lock washers, and flat washers (5) that secure the motor to the bracket (6).
6. Carefully remove evaporator fan motor (4).
7. Tag and disconnect wire leads from evaporator fan motor (4).
8. Remove drive pulley (7) from motor (4).
9. Connect wire leads to new evaporator fan motor (4) using tags and wiring diagram. Remove tags.
10. Place new evaporator fan motor (4) in position and support in place. Install four flat washers, lock washers, and screws (5).
11. Install drive pulley (7) onto motor (4) and align with fan pulley (8).
12. Install V-belt (2) onto drive pulley (6) and fan pulley (8).
13. Adjust V-belt (2) tension with adjusting bolt (3).

14. Close left front door (1).



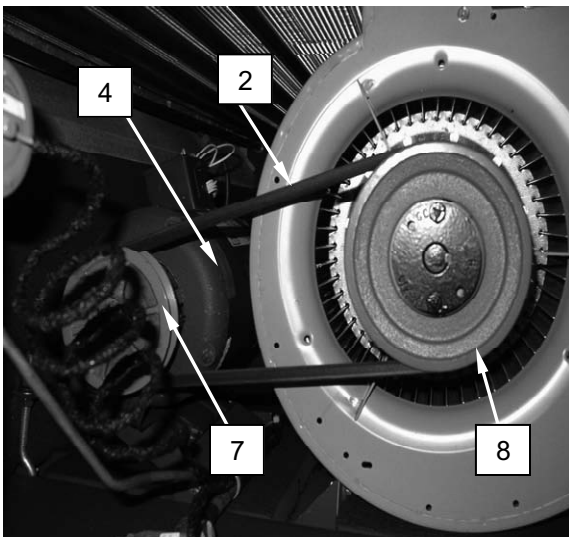
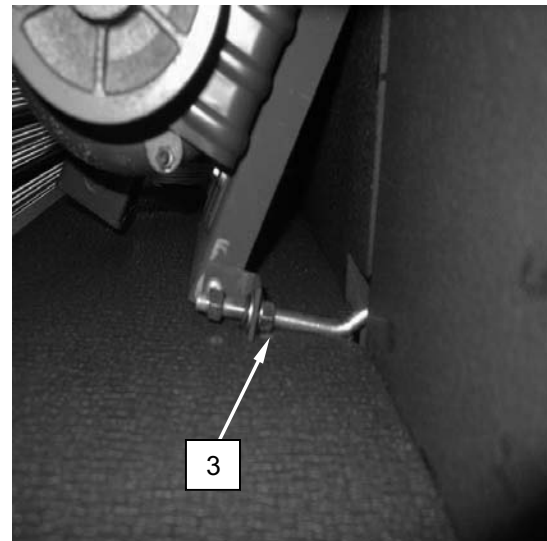
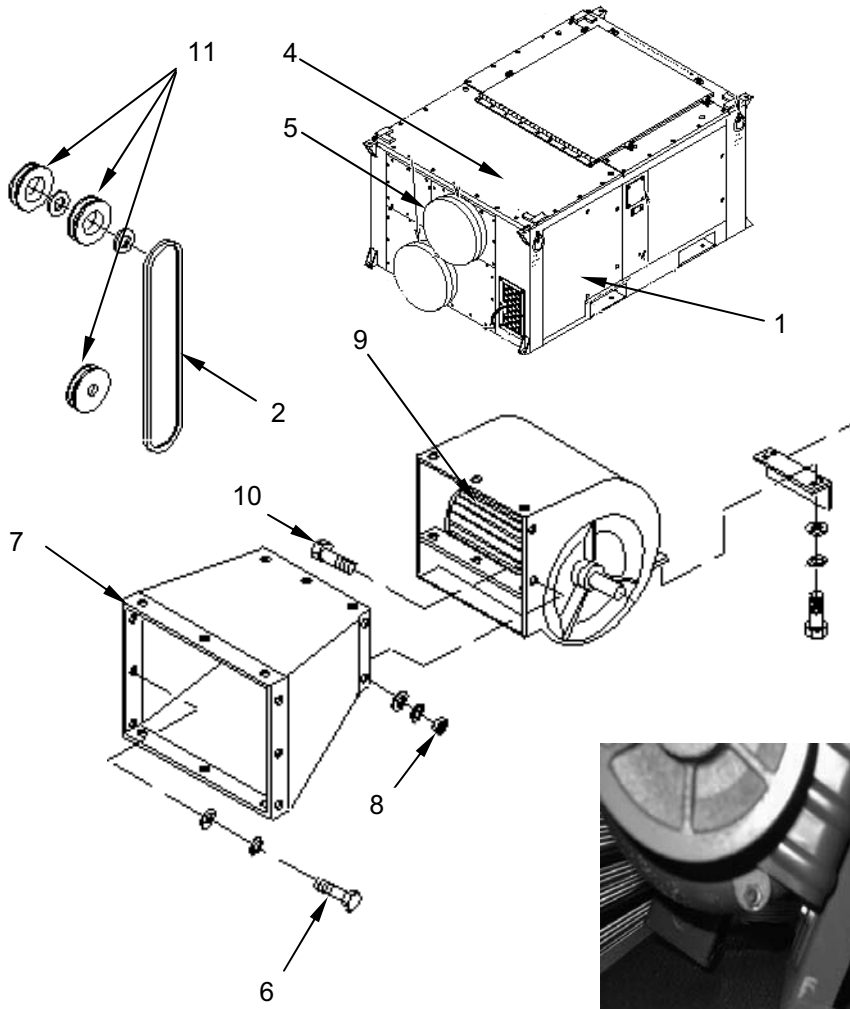
To replace the evaporator fan, proceed as follows:



### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Open the left front door (1)
3. Loosen the tension of the V-belt (2) with the adjusting bolt (3).
4. Remove top front panel (4).
5. Remove discharge air duct adapter (5).
6. Remove four screws, lock washers, flat washers, and nuts (6) securing the air discharge plenum (7) to the ECU frame.
7. Remove eight nuts, lock washers, flat washers, and screws, (8) securing the air discharge plenum (7) to the evaporator fan (9) housing.
8. Remove the discharge plenum (7) from the evaporator fan (9) housing.
9. Remove two screws, lock washers, and flat washers (10) securing the evaporator fan (9) to the ECU. Carefully remove evaporator fan (9) and air discharge plenum (7).
10. Note position of pulleys (11) and remove pulleys.
11. Install and position pulleys (11) on replacement fan (9) as noted during removal.
12. Carefully install evaporator fan (9) and discharge plenum (7). Secure evaporator fan with two flat washers, lock washer, and screws (10).
13. Install air discharge plenum (7) on evaporator fan (9), and retain with eight screws, flat washers, lock washers, and nuts (8).
14. Secure discharge plenum (7) with four nuts, flat washers, lock washers, and screws (6).
15. Install discharge air duct adapter (5).
16. Loosen and align drive pulley (11) with pulley as noted during removal. Tighten drive pulley.
17. Install top front panel (4).
18. Install and adjust V-belt (3).
19. Close left front door (1).



To replace the insulation, proceed as follows:

1. Open doors and remove panels (1) as necessary to access insulation being replaced.



### WARNING

Wear rubber gloves when handling insulation material. Insulation material may irritate exposed skin.

2. Remove any damaged insulation material (2) by pulling or scraping as much as possible away from the metal surface.



### WARNING

Cleaning solvent used to clean parts is flammable and potentially dangerous to personnel and property. Do not use near flame or excessive heat.

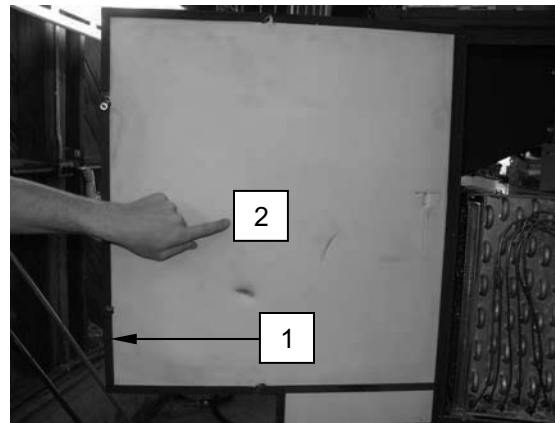
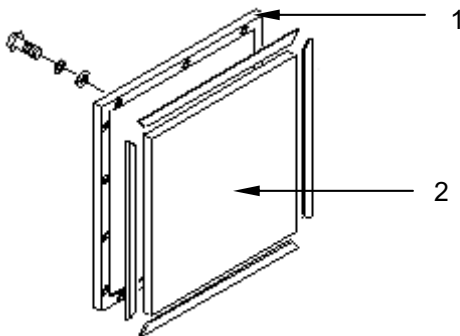
3. Using cleaning solvent and rags, clean any remaining adhesive from the metal surface.
4. Coat the mating surfaces of the metal and the new insulation with adhesive. Let both surfaces air dry until the adhesive is tacky but will not stick to fingers.



### WARNING

Wear rubber gloves when handling insulation material. Insulation material may irritate exposed skin.

5. Starting with an end, carefully attach the insulation (2) to the metal surface (1). Press firmly to completely contact.
6. Install any panels (1) and close doors used to access insulation.



## REPLACE

If the ECU sustained damage beyond the conditions described or cannot be repaired with the procedures appearing in this manual, replace the ECU.

## END OF WORK PACKAGE



**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-4732294)  
ENVIRONMENTAL CONTROL UNIT (ECU) REFRIGERATION SYSTEM  
INSPECT/TEST/SERVICE/REPAIR/REPLACE**

**INITIAL SETUP**

**Tools**

Refrigeration Tool Kit (WP 0083 00, Table 2, Item 8)

**Personnel Required**

One (MOS 52C)

**Materials/Parts**

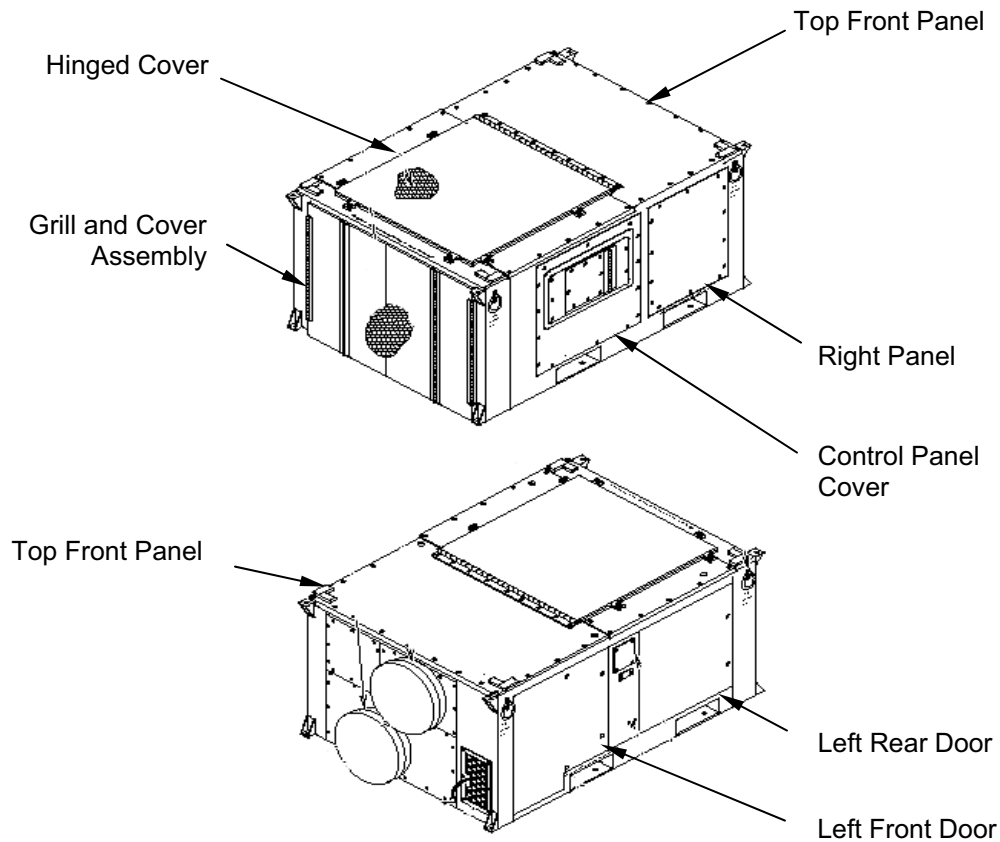
Rags, Wiping (WP 0102 00, Item 79)

**Equipment Condition**

ECU shut OFF at least 30 minutes.  
Power disconnected.

**NOTE**

Before proceeding with any maintenance tasks, be sure that you understand the names and locations of the access points on the ECU. Refer to the illustration below as necessary.

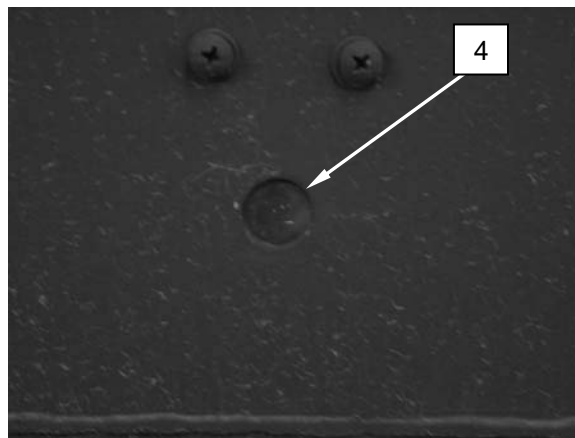
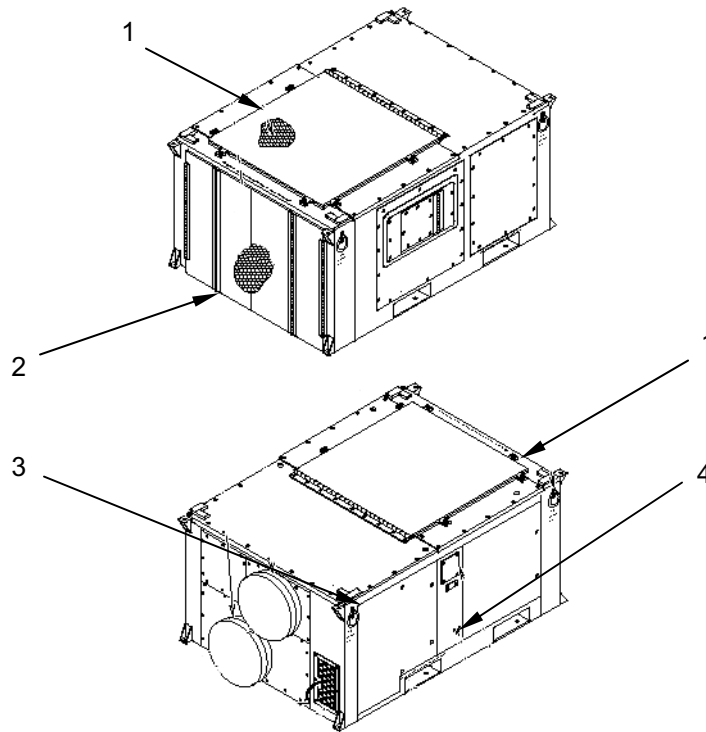


**INSPECT**

Inspect the ECU (1) for physical damage, corrosion, and proper installation.

Inspect the condenser (2) for obstructions and clogged fins and the evaporator (3) for obstructions and clogged fins.

Operate the ECU in accordance with operating instructions in WP 0024 00. Allow the ECU to operate for approximately 15 minutes. Monitor the sight glass (4) for excessive bubbling, indicating a loss of refrigerant.





**TEST**

To test for refrigerant leaks, proceed as follows:

**NOTE**

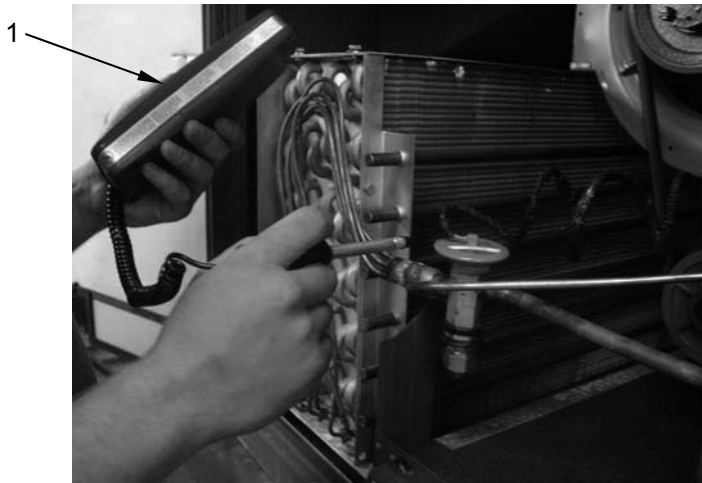
Test for refrigeration leaks only if the sight glass shows excessive bubbling.

**NOTE**

To perform the leak test, it is necessary that the system be pressurized with a proportion of refrigerant gas. Refer to service procedures for pressurizing the refrigeration system.

The electronic gas tester is highly sensitive to the presence of a minute quantity of gas in the air, and is quite effective in the detection of small leaks. However, due to rapid dispersion of refrigerant gas into surrounding air, difficulty may be encountered in pinpointing large leaks. The detector must be used in a well-ventilated area but draft free area.

1. Shut down the ECU and disconnect power.
2. Test for leaks at all points of possible leakage using a refrigerant gas leak detector (1). If a leak is found, take necessary steps to replace damaged components or repair leak.
3. If no leak was found and refrigerant only was used to pressurize the system, check refrigeration unit charge.
4. If no leak was found and nitrogen was used to pressurize the system, discharge, evacuate, and charge the refrigeration unit.



To test the compressor, proceed as follows:



### **WARNING**

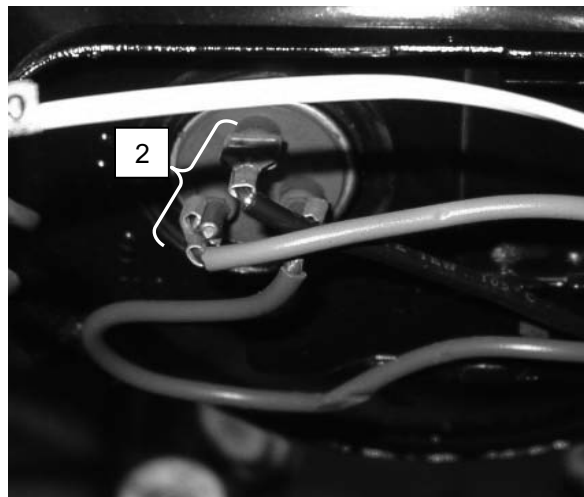
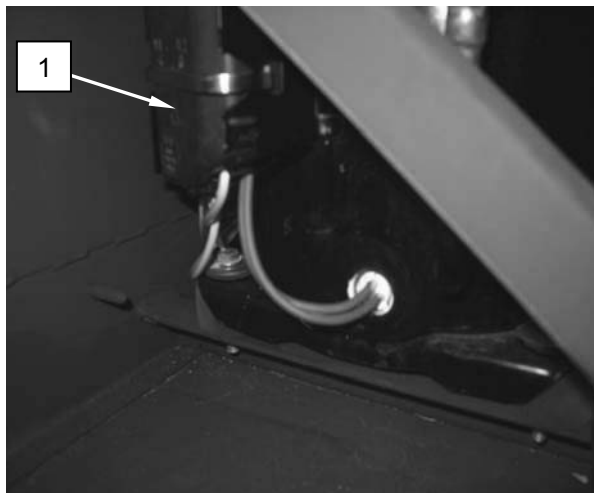
Voltages and rotating parts used in this air conditioner can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the air conditioner off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Unclip the terminal cover (1), and remove the cover
3. Tag and disconnect wire leads from compressor (2).

### **NOTE**

The compressor uses internal thermal overloads for the motor windings. The compressor must be cool to the touch in order for the overloads to close and test to be valid.

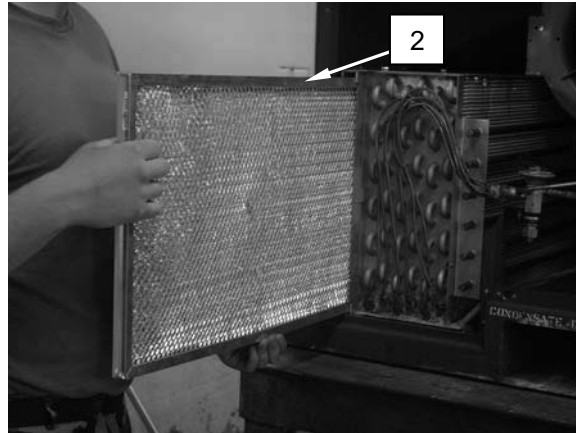
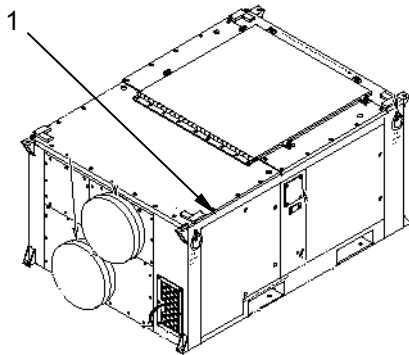
4. Using a multimeter set to measure continuity, check between compressor leads L1 and L2, L1 and L3, then L2 and L3. If no continuity was indicated, replace compressor (2).
5. Check continuity between compressor case and each lead L1, L2, and L3. If continuity was indicated between case and any lead, replace compressor (2).
6. Connect wire leads to compressor (2) using tags and wiring diagram. Remove tags.
7. Install the terminal cover, and retain with the clip.
8. Close right door.



**SERVICE**

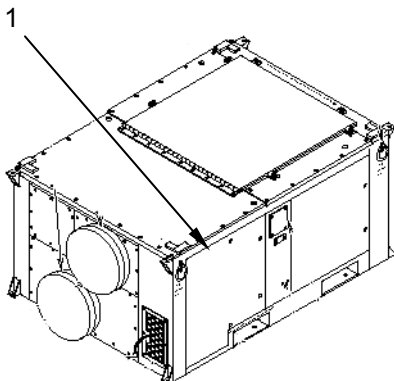
To clean the air filter, proceed as follows:

1. Open the left front door (1).
2. Remove the air filter (2).
3. Blow out the air filter with compressed air.
4. Reinstall the air filter.
5. Close the left front door.



To clean the evaporator, proceed as follows:

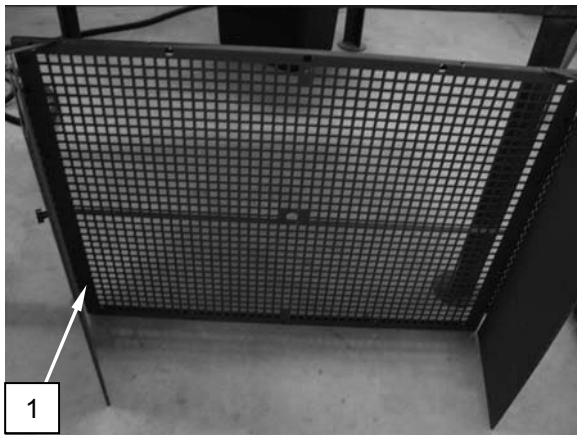
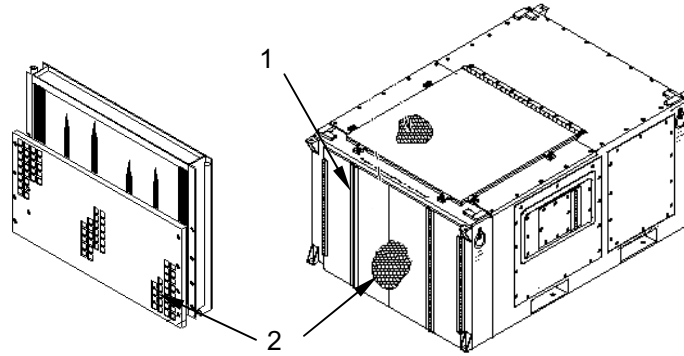
1. Open the left front door (1).
2. Use a fin comb to remove any debris from the evaporator fins (2). If a fin comb is unavailable, a wire brush may be used.
3. Close the left front door (1).



To clean the condenser, proceed as follows:

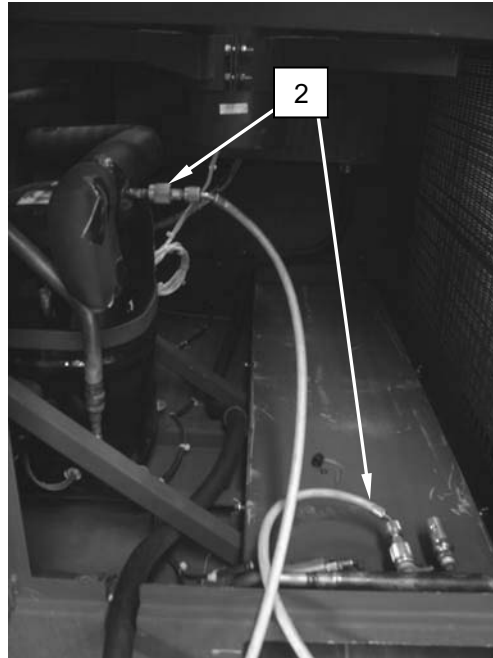
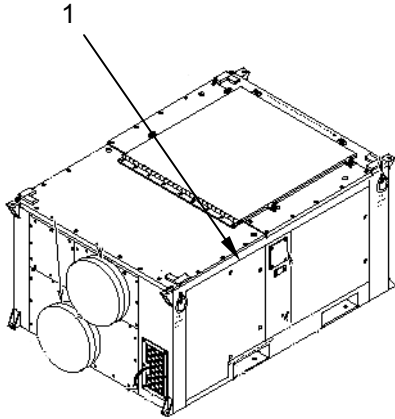
1. Open the condenser covers (1).
2. Remove the eighteen screws retaining the condenser grill and cover assembly, and remove the assembly.

3. Use a fin comb to remove any debris from the condenser fins (2). If a fin comb is unavailable, a wire brush may be used.
4. Install the condenser grill and cover assembly, and retain with eighteen screws.
5. Close the condenser covers (1) if the ECU is not being used.



To install the refrigeration service manifold, proceed as follows:

1. Open left rear door (1).
2. Remove two charging valve caps (2).
3. Check that all service manifold valves are closed then connect the compound and pressure gauge hoses to the appropriate charging valves.
4. Connect charge hose to recovery unit.
5. Open service manifold pressure gauge valve and charge valve. Operate recovery unit and allow refrigerant to purge for 3 to 5 seconds. Close pressure gauge and charge valves then shut down recovery unit.



To remove the refrigeration service manifold, proceed as follows:

1. Close all service manifold valves.
2. Operate recovery unit and allow refrigerant to purge from charge hose. Shut down recovery unit.
3. Disconnect pressure and compound gauge hoses from charging valves.
4. Disconnect charge hose from recovery unit.
5. Install two charging valve caps.
6. Close left rear door.

To discharge the refrigerant system, proceed as follows:

1. Install service manifold.

### **CAUTION**

Follow instructions for specific refrigerant recovery unit being used to avoid compressor oil loss. Loss of oil could result in compressor damage.

### **NOTE**

Venting refrigerant into the atmosphere rather than recovering it is subject to pending EPA restrictions. Venting the refrigerant may be a violation of public law and subject to severe penalties.

2. Open service manifold pressure and compound gauge valves.
3. Open service manifold charge valve. Operate recovery unit until all refrigerant has been removed from system.
4. Close service manifold valves.
5. Shut-down refrigerant recovery unit.
6. Remove service manifold.

To purge the refrigerant system, proceed as follows:

### **NOTE**

The refrigeration system must be purged with dry nitrogen before brazing is performed on any component. A flow of dry nitrogen should be continued during all brazing operations to minimize internal oxidation and scaling.

1. Discharge the refrigerant system but leave service manifold installed.
2. Disconnect charge hose from recovery unit and connect to nitrogen regulator and nitrogen tank.
3. Disconnect the compound gauge hose from the service manifold and place end in a suitable container to catch any oil that may come out.
4. Be sure the service manifold compound gauge and vacuum valves are closed.
5. Open the service manifold pressure gauge and charge valves.
6. Open the nitrogen tank valve and adjust the regulator so that approximately 1 to 2 cfm (0.028-0.057 m<sup>3</sup>/minute) of nitrogen flows through the system.
7. Check discharge from the hose attached to the suction service valve to be sure that no oil is being forced out of the system.
8. Perform any brazing/debrazing operations necessary.
9. When purging is completed, close nitrogen tank valve.
10. Disconnect the charge hose from nitrogen regulator.
11. Connect the compound gauge hose to service manifold.

**NOTE**

To perform leak test, it is necessary that the system be pressurized with a proportion of refrigerant gas.

The electronic gas tester is highly sensitive to the presence of a minute quantity of gas in the air, and is quite effective in the detection of small leaks. However, due to rapid dispersion of refrigerant gas into surrounding air, difficulty may be encountered in pinpointing large leaks. The detector must be used in a well-ventilated area but draft free area.

Pressurize a system that has some refrigerant charge remaining as follows:

1. Install service manifold.
2. Connect the charge hose to a refrigerant cylinder set to deliver gas only.
3. Check that service manifold vacuum valve is closed.
4. Open the service manifold compound gauge, pressure gauge, and charge valves.
5. Open refrigerant cylinder valve and pressurize system to 100 psi (7.1 kg/cm<sup>2</sup>).

Pressurize a purged, or discharged system as follows:

1. Install service manifold.
2. Connect the charge hose to a refrigerant cylinder set to deliver gas only.
3. Check that service manifold vacuum valve is closed.
4. Open the service manifold compound gauge, pressure gauge, and charge valves.
5. Open refrigerant cylinder valve and pressurize system to 40-50 psi (2.8-3.5 kg/cm<sup>2</sup>).
6. Close service manifold valves and refrigerant cylinder valve.
7. Disconnect charge hose from the refrigerant cylinder and connect it to a nitrogen regulator and nitrogen cylinder.
8. Open the service manifold compound gauge, pressure gauge, and charge valves.
9. Open nitrogen cylinder valve and pressurize system to 350 psi (24.7 kg/cm<sup>2</sup>).

To evacuate the refrigerant system, proceed as follows:

**NOTE**

The refrigeration system must be evacuated to remove all moisture and non-condensables before it is charged.

1. Discharge the refrigerant system but do not remove the service manifold.
2. Install new dehydrator.

3. Check that service manifold charge valve is closed then connect the vacuum hose to vacuum pump and start pump.
4. Open service manifold high pressure gauge, compound gauge, and vacuum valves.
5. Run vacuum pump until at least 29-inches of mercury is measured on compound gauge. Continue running vacuum pump for one more hour, while observing the compound gauge. If gauge needle moves back and forth, you have a leak, which must be located and repaired.

### **NOTE**

Inability to reach and hold 29-inches of mercury may indicate either a leak or a problem with the vacuum pump.

6. Close service manifold vacuum valve and stop vacuum pump.
7. Note reading on compound gauge and observe for 10-minutes.
8. If pressure rises, moisture may still be in the system or a leak exists. If pressure rose, repeat evacuation and re-check. If the pressure rise occurs again at the same speed, a leak is in the system and must be repaired.
9. If the pressure rise was slower the second time, moisture remains in the system and the evacuation process must be repeated until there is no rise.
10. Close service manifold high pressure gauge and compound gauge valves.
11. Disconnect the vacuum hose from vacuum pump.
12. Charge the refrigerant system.

To liquid charge the refrigerant system, proceed as follows:

### **NOTE**

The refrigeration system should not require charging unless there has been a component failure with leakage. Repair the leak before charging the system.

### **NOTE**

Perform the following procedure only if the unit refrigerant system has been evacuated and requires a full charge. If you are unsure as to the state of charge in the refrigeration system, gas-charge the system.

### **CAUTION**

The system must be evacuated before charging. Moisture in the system will prevent the refrigeration unit from operating properly.

1. Install the service manifold.
2. Connect the charge hose to a refrigerant tank set to deliver gas and the vacuum hose to reclaim unit.
3. Check that compound gauge and pressure gauge valves are closed.
4. Open vacuum and charge valves.
5. Open refrigerant tank valve.



6. Operate reclaim unit for 3 to 5 seconds to purge hoses.
7. Close refrigerant tank, vacuum, and charge valves then stop reclaim unit.
8. Set refrigerant tank to deliver liquid only.
9. Place refrigerant tank on an accurate scale to measure and record weight.

### **CAUTION**

Never introduce liquid refrigerant into the suction side of the refrigerant system. This can cause damage to the compressor.

10. With system shutdown, open refrigerant tank, pressure gauge, and charge valves.
11. Allow liquid refrigerant to enter system until tank weight has decreased by 10 pounds (4.5 kg) or until system pressure has equalized, whichever occurs first.
12. Close refrigerant tank, charge, and pressure gauge valves.

### **NOTE**

If 11-pounds (5 kg) full charge was obtained, skip steps 13. through 18.

13. Connect power at power source.
14. Turn unit on and operate the refrigerant system.
15. Set refrigerant tank to deliver gas only.
16. Check that all service manifold valves are closed.



### **WARNING**

Never introduce high discharge pressure into a refrigerant tank. This can cause the tank to rupture and injure personnel.

### **CAUTION**

Never introduce liquid refrigerant into the suction side of the refrigeration system. This can cause damage to the compressor.

17. Open refrigerant tank, compound gauge, and charge valves.
18. Monitor weight of the refrigerant tank until total 10-pounds (4.5 kg) charge is obtained.
19. When system is fully charged, immediately close refrigerant tank, compound gauge, and charge valves.
20. Run unit refrigerant system 15 minutes and observe sight glass.
21. Milky white or bubbly liquid means system has low charge.
22. Clean bubble free liquid means the system is fully charged.
23. Be sure all service manifold valves are closed.

24. Shut off unit.

Gas charge the refrigeration system as follows:

### NOTE

Gas charge the refrigeration system if the unit refrigerant system still has a partial charge. If you are unsure as to the state of charge, gas-charge the system.

1. Install the service manifold.
2. Connect the charge hose to a tank of refrigerant set to deliver gas and the vacuum hose to reclaim unit.
3. Check that compound gauge and pressure gauge valves are closed.
4. Open vacuum and charge valves.
5. Open refrigerant tank valve. Operate reclaim unit for 3 to 5 seconds to purge hoses.
6. Close refrigerant tank, vacuum, and charge valves then stop reclaim unit.
7. Connect power at power source.
8. Turn unit on and operate the refrigerant system.
9. Set refrigerant tank to deliver gas only.
10. Check that all service manifold valves are closed.



### WARNING

Never introduce high discharge pressure into a refrigerant tank. This can cause the tank to rupture and injure personnel.

### CAUTION

Never introduce liquid refrigerant into the suction side of the refrigerant system. This can cause damage to the compressor.

11. Open refrigerant tank, compound gauge, and charge valves.
12. Run unit refrigerant system 15 minutes and observe sight glass.
13. Milky white or bubbly liquid means system has low charge.
14. Clean bubble free liquid means the system is fully charged.

### CAUTION

Never introduce liquid refrigerant into the suction side of refrigerant system. This can cause damage to the compressor.

15. If charge is low, set refrigerant tank to deliver gas only.

**WARNING**

Never introduce high discharge pressure into a refrigerant cylinder. This can cause the cylinder to rupture and injure personnel.

16. Check that pressure gauge valve is closed.
17. Open refrigerant tank, compound gauge, and charge valves.
18. Charge until sight glass remains clear and bubble free for 15 minutes.
19. When system is fully charged, immediately close refrigerant tank, compound gauge, and charge valves.
20. Shut off unit.
21. Remove service manifold.

**REPAIR****NOTE**

The refrigeration system must be totally discharged before any maintenance is performed on system components. Repair of the refrigeration system consists of component replacement, which requires debrazing for removal and brazing for installation. Purging is required whenever brazing/debrazing of component is required. Dehydrator replacement and leak testing are required after any system component has been removed and replaced. After replacing any components, the system must be properly evacuated and charged to function correctly.

**WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

Use the following de-brazing procedures on any part of the refrigeration system:

1. Purge the refrigerant system.

**CAUTION**

Protect wiring harnesses and other components with appropriate heat shields.

**NOTE**

It may be easier to access a component by cutting or debrazing the copper lines in accessible areas and removing part of the interconnecting tubing with the component.

2. If debrazing a joint on a valve, disassemble the valve to the extent possible and wrap all but the joint with wet rag to act as a heat sink.



### **WARNING**

Never use a heating torch on any part that contains refrigerant. Heat may cause the refrigerant to decompose and release irritating, toxic, and corrosive gases. All refrigerant must be discharged from the system and the entire system must be purged with dry nitrogen before beginning any brazing operation.

### **CAUTION**

If heat is applied slowly, or only on one side, the entire component or length of tubing will be heated and filler alloy in adjacent joints may also be melted.

3. Check that the system is being purged and apply sufficient heat uniformly around the joint to quickly melt the filler alloy. Remove heat as soon as the joint is separated.
4. Clean all filler alloy from debrazed joints before assembly. Heat each piece of the joint until the filler is melted and then wipe it away with a wire brush. Be sure no filler alloy or other debris is left inside any tubing, fitting, or component. Use abrasive cloth as necessary to clean joints.

Use the following brazing procedures on any part of the refrigeration system:

### **CAUTION**

Protect wiring harnesses and other components with appropriate heat shields.

1. If brazing a joint on a valve, disassemble the valve to the extent possible and wrap all but the joint with a wet rag to act as a heat sink.

### **NOTE**

If interconnecting tubing was removed with a component, braze tubing to the new components before installation.

2. Apply brazing flux to mating joint surfaces then position component or assembly into place.



### **WARNING**

Never use a heating torch on any part that contains refrigerant. Heat may cause the refrigerant to decompose and release irritating, toxic, and corrosive gases. All refrigerant must be discharged from the system and the entire system must be purged with dry nitrogen before beginning any brazing operation.

### **CAUTION**

If heat is applied slowly, or only on one side, the entire component or length of tubing will be heated and filler alloy in adjacent joints may also be melted. Brazing a joint without nitrogen flowing through the tubing will cause deposits to form on the inside of the tube and may cause obstructions in the refrigeration system or equipment damage.

**NOTE**

All joints, except those provided with flare fittings, are made by brazing in accordance with MIL-B-7883, except that radiographic examination is not required. Grade IV or VI brazing alloy and Type-B flux, as specified in MIL-B-7883, must be used for all copper to brass joints. Grade III brazing alloy may be substituted for Grade IV or VI for copper to copper joints, flux is not required for copper-to-copper joints.

3. Check that the system is being purged and apply sufficient heat uniformly around the joint to quickly melt the filler alloy. Remove heat and stop purging as soon as brazing is completed.

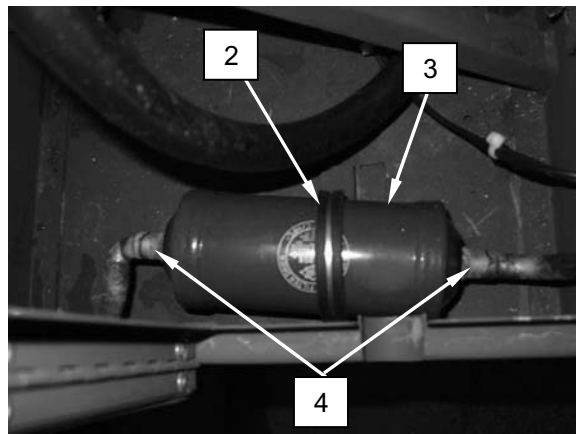
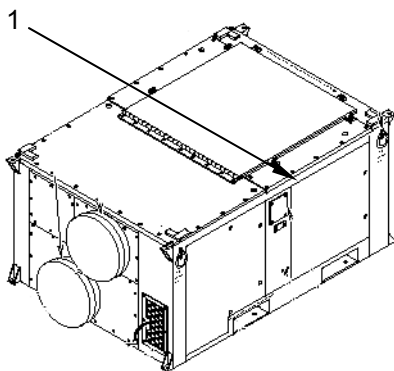
**REPLACE**

To replace the dehydrator, proceed as follows:

**NOTE**

The system dehydrator must be replaced any time any other components are replaced in the refrigeration system. Do not proceed with component replacement unless you have a new dehydrator available.

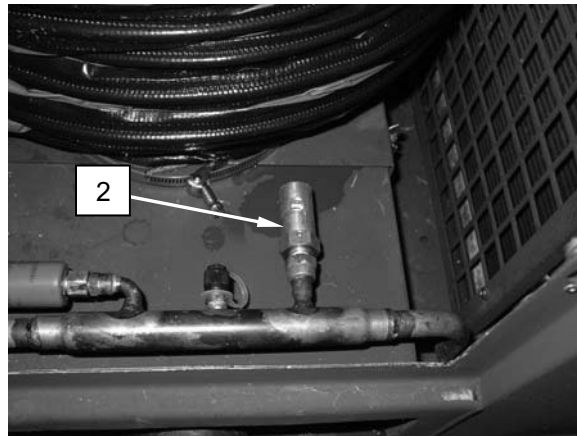
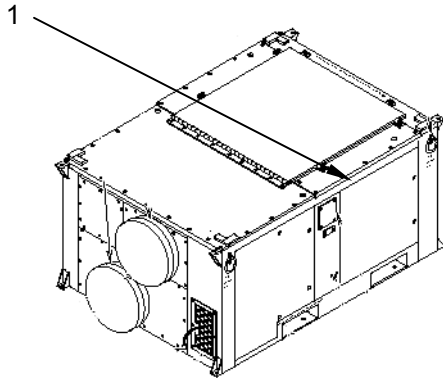
1. Open left rear door (1).
2. Discharge and purge the refrigerant system.
3. Remove the clamp (2) from the dehydrator (3).
4. Debraze the dehydrator fittings (4) and remove dehydrator (3).
5. Install new dehydrator (3) and braze fittings (4). Clamp (2) dehydrator into place.
6. Leak test, evacuate, and charge the refrigeration system.
7. Close left rear door (1).



To replace the pressure relief valve, proceed as follows:

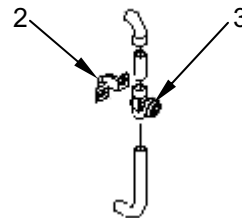
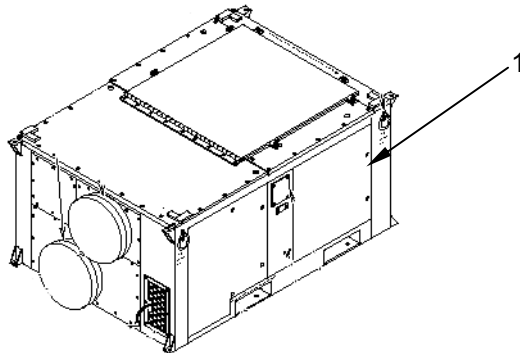
1. Open left rear door.
2. Discharge the refrigerant system.
3. Remove the pressure relief valve.

4. Wrap anti-seize tape around the new pressure relief valve and install it.
5. Install new dehydrator. Refer to dehydrator replacement procedure above.
6. Leak test, evacuate, and charge the refrigeration system.
7. Close left rear door.



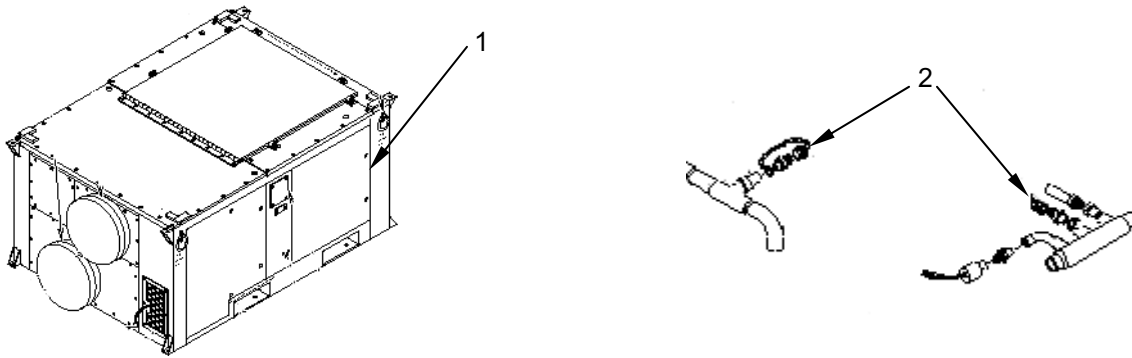
To replace the liquid indicator (sight glass), proceed as follows:

1. Open left rear door (1).
2. Discharge and purge the refrigerant system.
3. From inside the ECU, remove two nuts, lock washers, flat washers, clamp (2), two screws, and flat washers.
4. Debraze the liquid indicator (3) fittings and remove the liquid indicator.
5. Install new liquid indicator (3) and braze fittings.
6. Install two flat washers, screws, clamp (2), two flat washers, lock washers, and nuts.
7. Install new dehydrator. Refer to dehydrator replacement procedure above.
8. Leak test, evacuate, and charge the refrigeration system.
9. Close left rear door (1).



To replace the charging valves, proceed as follows:

1. Open left rear door (1).
2. Discharge the refrigerant system.
3. De-braze and remove the charging valve (2).
4. Install replacement charging valve and braze fitting.
5. Install new dehydrator. Refer to dehydrator replacement procedure above.
6. Leak test, evacuate, and charge the refrigeration system.
7. Close left rear door (1).

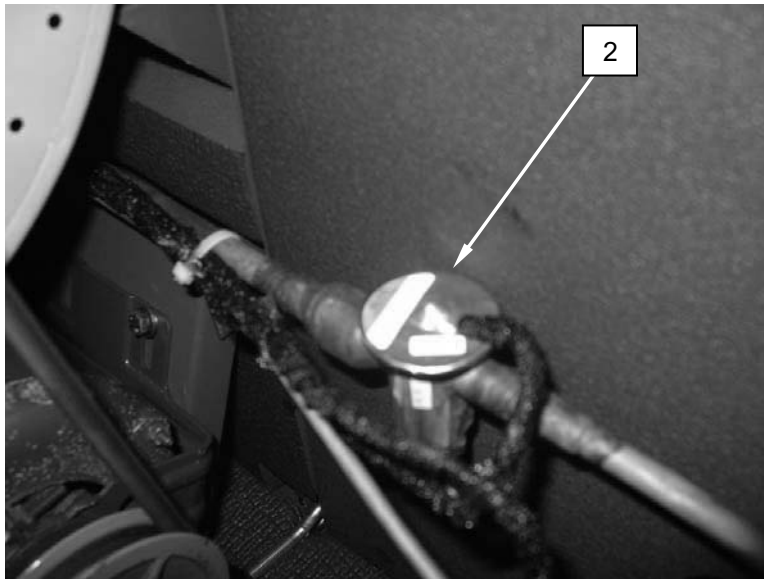
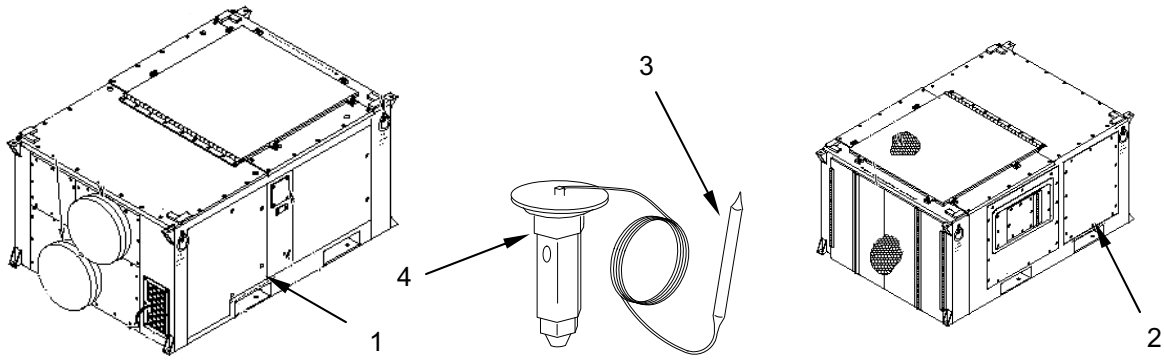


To replace the quench valve, proceed as follows:

### NOTE

The quench valve and the expansion valve are very similar in appearance. Make sure you have the right valve before proceeding.

1. Open left front door (1) and right front panel (2).
2. Discharge and purge the refrigerant system.
3. Remove any insulation from around quench valve sensing bulb (3) then loosen clamp and remove sensing bulb.
4. De-braze the quench valve (4) fittings and remove it.
5. Install new quench valve (4) and braze fittings.
6. Route quench valve sensing bulb (3) carefully into place and secure with clamp. Wrap insulation around sensing bulb and secure with tape.
7. Install new dehydrator. Refer to dehydrator replacement procedure above.
8. Leak test, evacuate, and charge the refrigeration system.
9. Install right front panel (2), and close left front door (1).



To replace the expansion valve, proceed as follows:

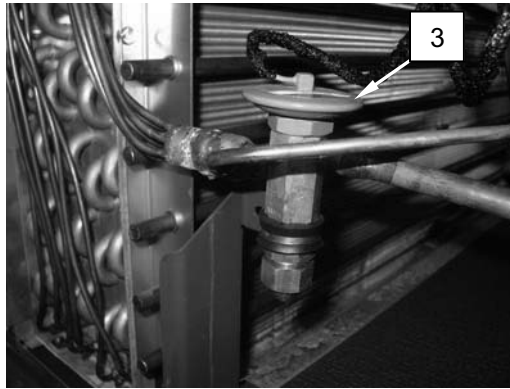
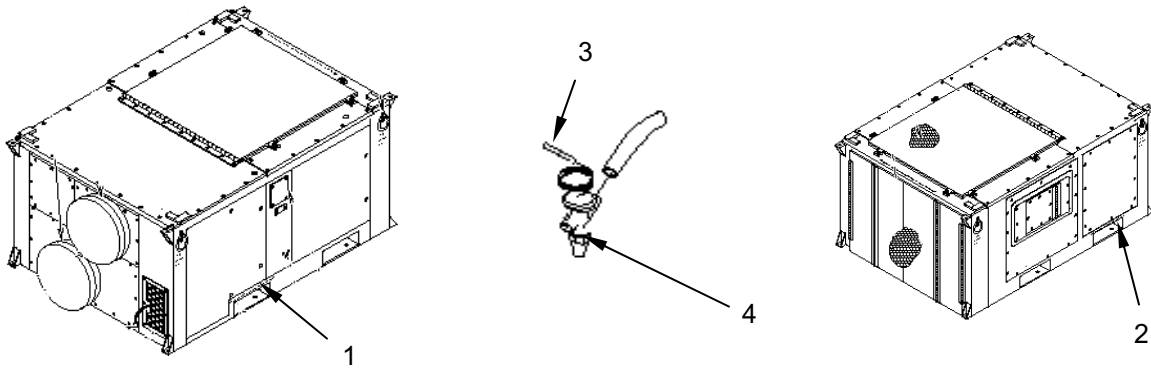
### NOTE

The quench valve and the expansion valve are very similar in appearance. Make sure you have the right valve before proceeding.

1. Open left front door (1) and remove right panel (2).
2. Discharge and purge the refrigerant system.
3. Remove any insulation from around expansion valve sensing bulb (3) then loosen clamp and remove sensing bulb.
4. De-braze the expansion valve (4) fittings and remove it.
5. Install new expansion valve (4) and braze fittings.
6. Route expansion valve sensing bulb (3) carefully into place and secure with clamp. Wrap insulation around sensing bulb and secure with tape.
7. Install new dehydrator. Refer to dehydrator replacement procedure above.
8. Leak test, evacuate, and charge the refrigeration system.

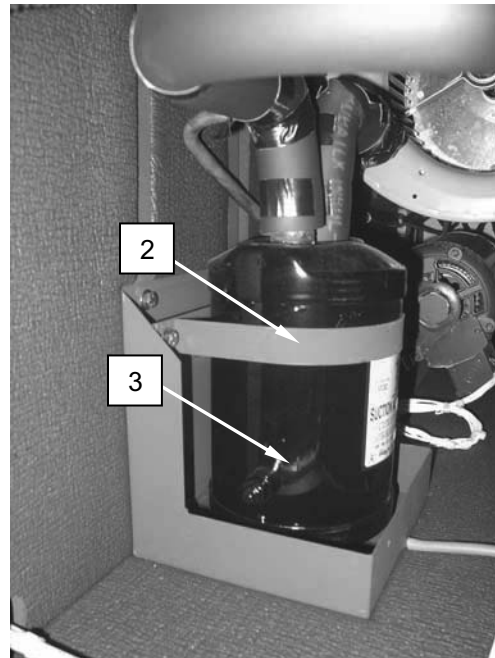
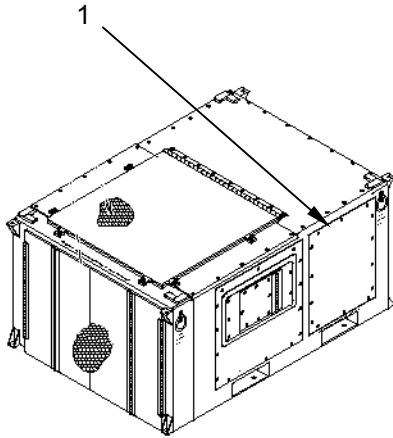


9. Install right panel (2), and close left front door (1).



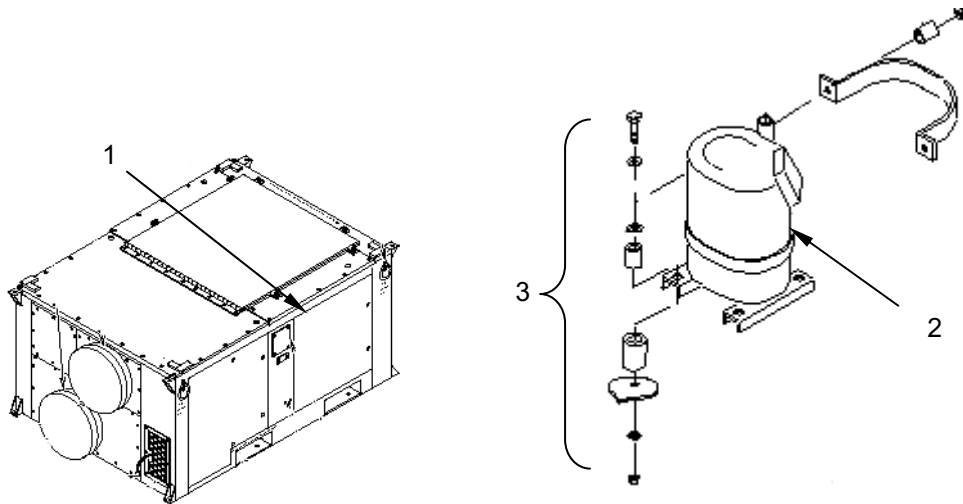
To replace the accumulator, proceed as follows:

1. Remove right panel (1).
2. Discharge and purge the refrigerant system.
3. Remove strap (2) and retaining fasteners.
4. De-braze the accumulator (3) fittings and remove accumulator.
5. Install new accumulator (3) and braze fittings.
6. Install strap (2) and retain with fasteners.
7. Remove insulation from old accumulator and secure to new accumulator using tape.
8. Install new dehydrator. Refer to dehydrator replacement procedure above.
9. Leak test, evacuate, and charge the refrigeration system.
10. Re-install right panel (1).



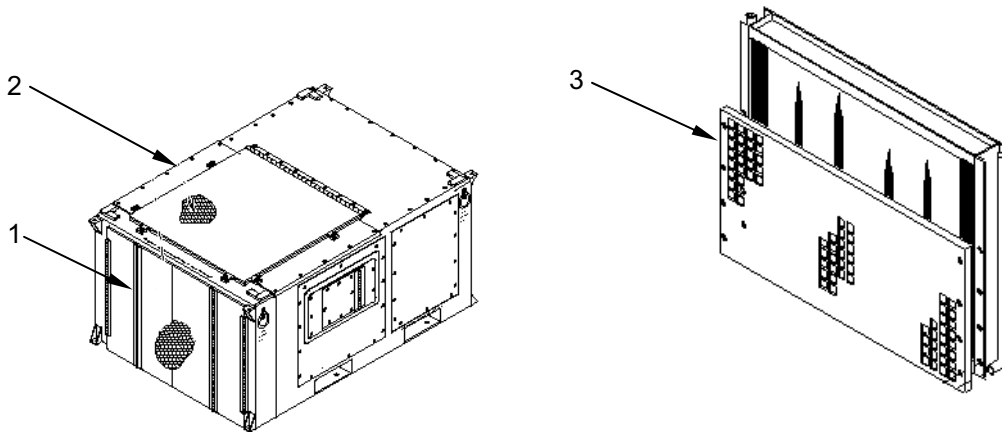
To replace the compressor, proceed as follows:

1. Open the left rear door (1).
2. Tag and disconnect the wire leads from the compressor (2).
3. Discharge and purge the refrigerant system.
4. De-braze the compressor (2) fittings.
5. Remove four bolts, lock washers, screws, flat washers, isolator washers, compressor, four resilient mounts, and spacers (3).
6. Install new compressor (2) onto four resilient mounts with spacers (3). Install four isolation washers, flat washers, screws, lock washers, and bolts.
7. Braze compressor (2) fittings.
8. Install new dehydrator. Refer to dehydrator replacement procedure above.
9. Leak test, evacuate, and charge the refrigeration system.
10. Connect wire leads to compressor (2) using tags and wiring diagram. Remove tags.
11. Close the left rear door.



To replace the condenser coil, proceed as follows:

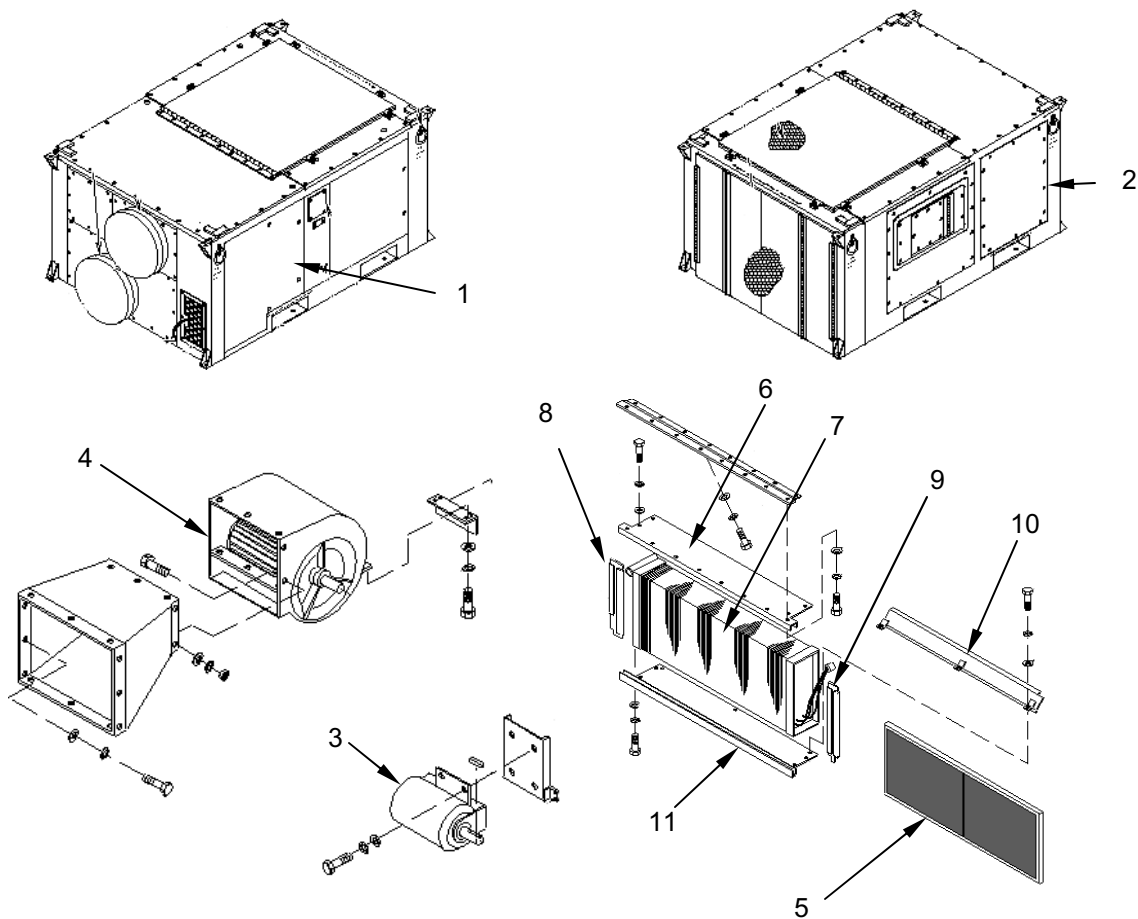
1. Remove grille and cover (1).
2. Remove top rear panel (2).
3. Discharge and purge the refrigerant system.
4. De-braze the condenser coil (3) fittings and remove condenser coil.
5. Install new condenser coil (3) and braze fittings.
6. Install new dehydrator. Refer to dehydrator replacement procedure above.
7. Leak test, evacuate, and charge the refrigeration system.
8. Install grille and cover (1).
9. Install top rear panel (2).



To replace the evaporator coil, proceed as follows:

1. Open left front door (1).
2. Remove right panel (2).
3. Remove evaporator fan motor (3).
4. Remove evaporator fan (4).
5. Discharge and purge the refrigerant system.
6. Remove air filter (5).
7. Remove four screws, lock washers, flat washers, and plate assembly (6) from evaporator coil.
8. De-braze the evaporator coil (7) fittings.
9. Remove left side coil baffle (8) and right side coil baffle (9).
10. Remove six screws, lock washers, flat washers, drip shield (10), and evaporator coil (7) with plate (11) from top of evaporator.

11. Remove four screws, lock washers, flat washers, and plate (11) from bottom of evaporator.
12. Install plate (11), four flat washers, lock washers, and screws on replacement evaporator.
13. Install evaporator coil (7) with plate (11), drip shield (10), six flat washers, lock washers, and screws.
14. Install left side coil baffle (8) and right side coil baffle (9).
15. Braze evaporator coil (7) fittings.
16. Install plate assembly (6), four flat washers, lock washers, and screws.
17. Install air filter (5).
18. Install new dehydrator. Refer to dehydrator replacement procedure above.
19. Leak test, evacuate, and charge the refrigeration system.
20. Install evaporator fan (4).
21. Install evaporator fan motor (3).
22. Install evaporator fan belt.
23. Install right panel (2).
24. Close left front door (1).



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To replace or repair tubing and fittings, proceed as follows:

### **NOTE**

Tubing may be replaced by cutting length from tubing stock of the appropriate outside diameter and thickness schedule.

1. Open/remove necessary doors/panels to access tubing or fitting being repaired/replaced.
2. Discharge and purge the refrigerant system.
3. Remove insulation as necessary from old tubing or fitting.
4. De-braze the tubing or fitting and remove it.
5. Install new tubing or fitting and braze.
6. Secure insulation, if removed, to new tubing or fitting using tape.
7. Install new dehydrator. Refer to dehydrator replacement procedure above.
8. Leak test, evacuate, and charge the refrigeration system.
9. Install/close any panels/doors used to access tubing or fitting.

### **REPLACE**

Replace an ECU that cannot be repaired using the procedures in this WP.

### **END OF WORK PACKAGE**

**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
ENVIRONMENTAL CONTROL UNIT (ECU) ELECTRICAL SYSTEM  
INSPECT/TEST/ADJUST**

**INITIAL SETUP**

**Tools**

Multimeter (WP 0083 00, Table 2, Item 1)  
 Tool Kit Electrical Equipment TK-01GSQ (WP 0083 00, Table 2, Item 4)  
 Tool Kit, General Mech. Automotive (WP 0083 00, Table 2, Item 5)

**Personnel Required**

One

**Equipment Condition**

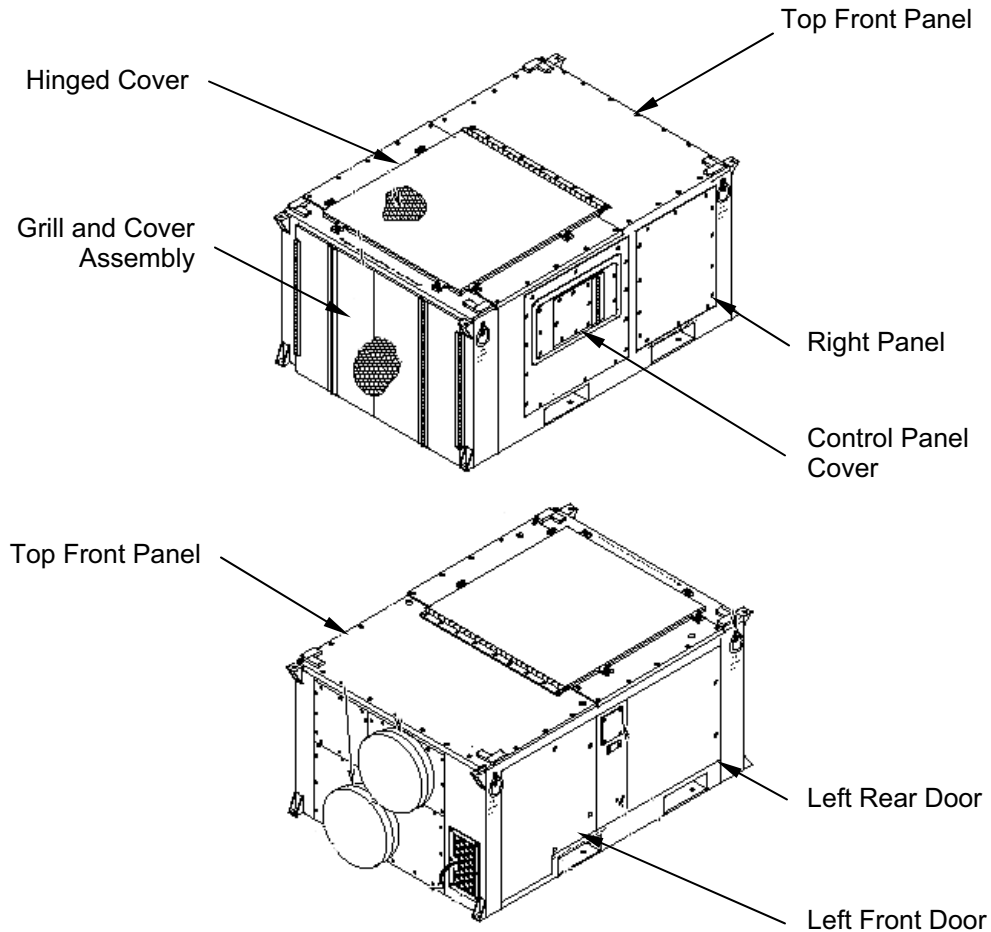
ECU shut OFF at least 30 minutes. Power disconnected.

**Materials/Parts**

Rags, Wiping, WP 0102 00, Item 79

**NOTE**

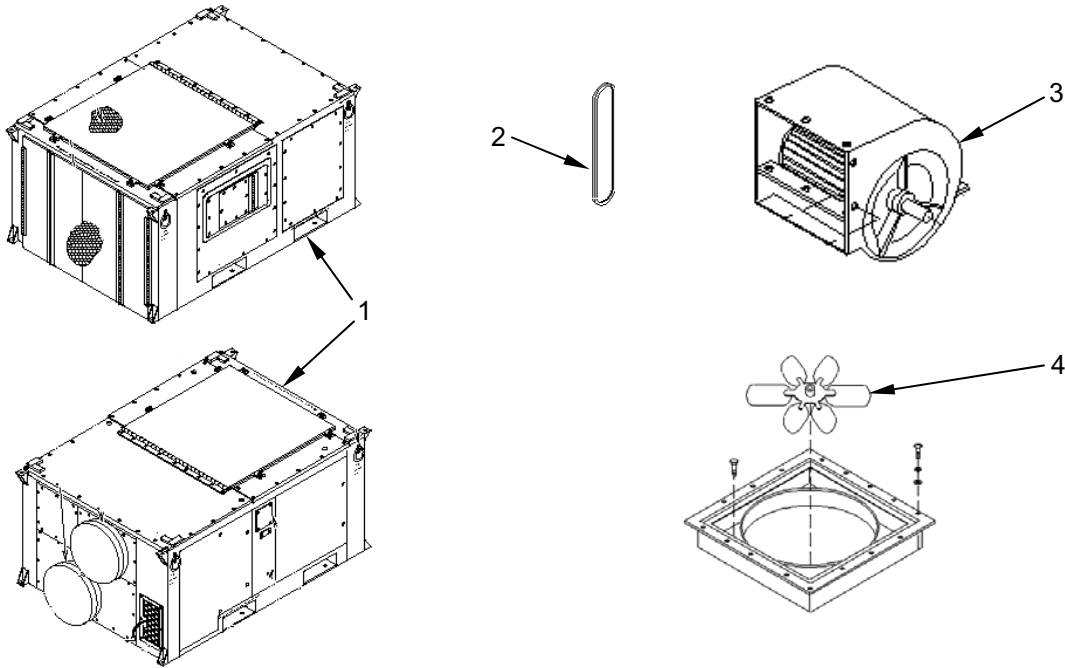
Before proceeding with any maintenance tasks, be sure that you understand the names and locations of the access points on the ECU. Refer to the illustration below as necessary.



**INSPECT**

Inspect the ECU (1) as follows:

1. Inspect the evaporator fan belt (2) for fit and wear. The fan belt should deflect no more than  $\frac{3}{8}$  inches.
2. Inspect the evaporator fan (3) for fit, corrosion, cleanliness, and physical damage.
3. Inspect the venturi fan (4) for fit, corrosion, cleanliness, and physical damage.

**TEST**

To test the circuit breaker, proceed as follows:

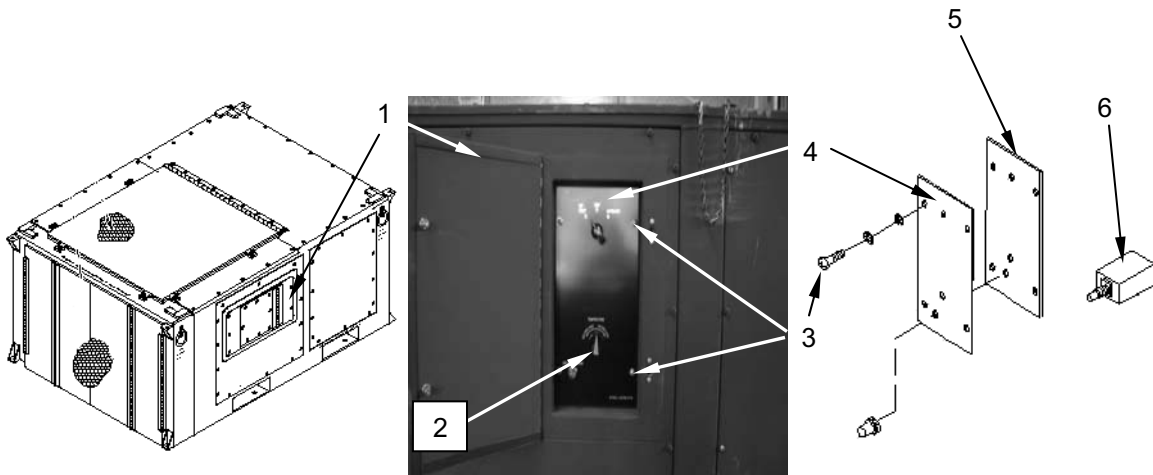
**WARNING**

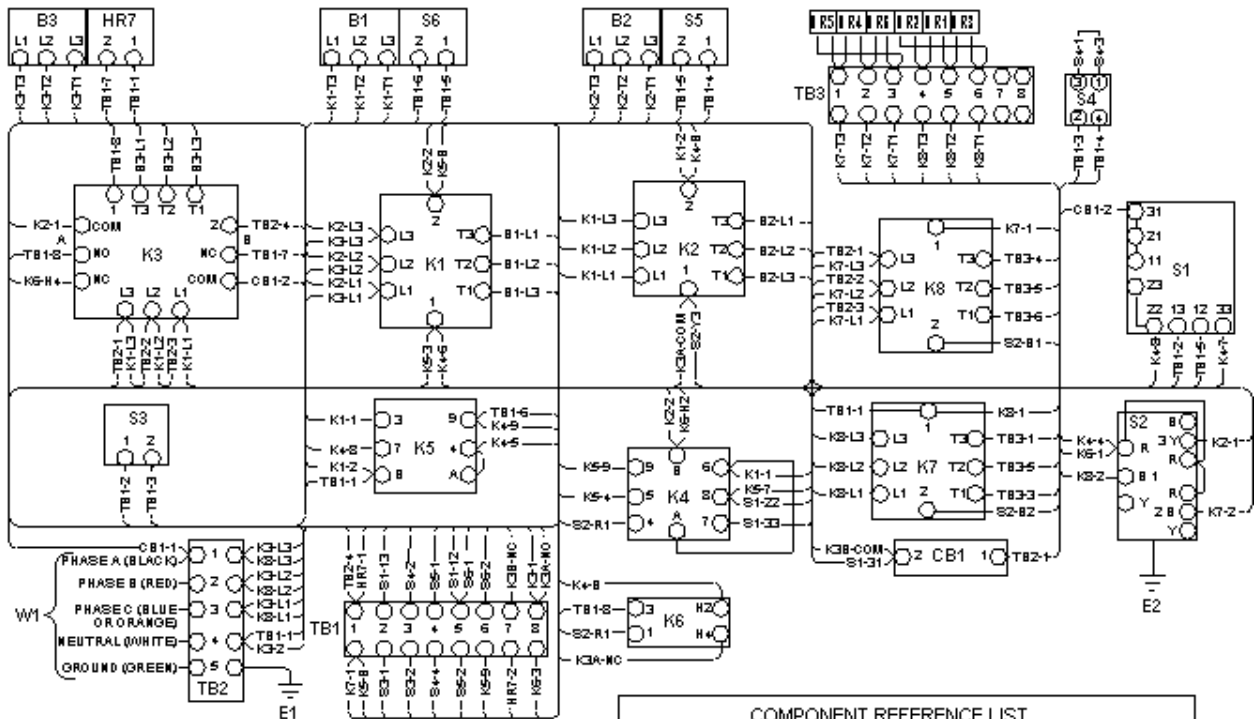
Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Loosen two fasteners and open control panel cover door (1).
3. Loosen setscrew and remove the thermostat knob (2).
4. Remove four screws, lock washers, and flat washers (3) from the panel.
5. Carefully pull panel (4) and sub panel (5) out as far as wire leads will allow.
6. Tag and disconnect wire leads from circuit breaker (6).
7. Press circuit breaker button to reset it.



8. Using a multimeter set to measure continuity, check between terminals 1 and 2. Refer to the wiring diagram as necessary. If no continuity is indicated, replace circuit breaker as described in WP 0072 00.
9. Carefully push panel (3) and sub panel (4) into place.
10. Install four flat washers, lock washers, and screws onto panel.
11. Install thermostat knob and tighten setscrew.
12. Close control panel cover door (1) and tighten two fasteners.





COMPONENT REFERENCE LIST	
SYMBOL	DESCRIPTION
B1	MOTOR, EVAPORATOR
B2	MOTOR, CONDENSER
B3	COMPRESSOR
CB1	CIRCUIT BREAKER
E1	TERMINAL, GROUNDING
E2	TERMINAL, GROUNDING
HR1-HR6	HEATER ELEMENT
HR-7	CRANKCASE HEATER
K1	RELAY, EVAPORATOR FAN
K2	RELAY, CONDENSER FAN
K3	RELAY, COMPRESSOR
K4,5	RELAY
K6	RELAY, TIME DELAY
K7,8	RELAY, HEATERS
S1	SWITCH, SELECTOR
S2	SWITCH, THERMOSTAT
S3	SWITCH, HIGH PRESSURE CUTOUT
S4	SWITCH, HIGH TEMPERATURE CUTOUT
S5	SWITCH, CONDENSER FAN, THERMAL CUTOUT
S6	SWITCH, EVAPORATOR FAN, THERMAL CUTOUT
TB1,3	TERMINAL BOARD (MIL-T-55164/2)
TB2	TERMINAL BOARD
W1	CABLE, POWER INPUT

ECU Wiring Diagram.

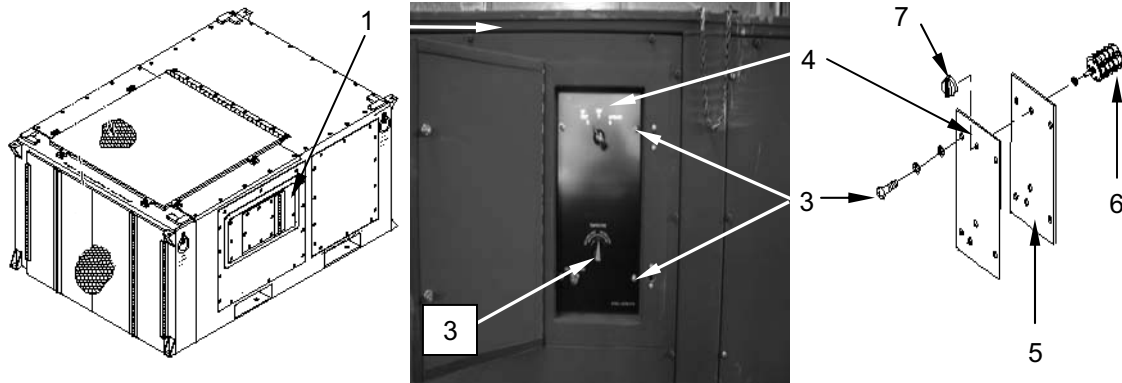
To test the rotary switch, proceed as follows:



### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Loosen two fasteners and open control panel cover door (1).
3. Loosen the setscrew and remove the thermostat knob (2).
4. Remove four screws, lock washers, and flat washers (3) from the panel (4).
5. Carefully pull panel (4) and sub panel (5) out as far as wire leads will allow.
6. Tag and disconnect wire leads from rotary switch (6).
7. Turn rotary switch knob (7) to the OFF/RESET position.
8. Using a multimeter set to measure continuity, check between terminals 31 and 22, 31 and 23, 21 and 12, 21 and 13, then 11 and 33. Refer to the diagram following the procedure to test the circuit breaker, if necessary. If continuity was indicated between any terminals, replace rotary switch as described in WP 0072 00.
9. Turn rotary switch knob (7) to the VENT position.
10. Using a multimeter set to measure continuity, check between terminals 31 and 22 then 21 and 12. Refer to the diagram following the procedure to test the circuit breaker, if necessary. If continuity was not indicated between any terminals, replace rotary switch as described in WP 0072 00.
11. Turn rotary switch knob (7) to the AUTOMATIC position.
12. Using a multimeter set to measure continuity, check between terminals 31 and 23, 21 and 13, then 11 and 33. Refer to the diagram following the procedure to test the circuit breaker, if necessary. If continuity was not indicated between any terminals, replace rotary switch as described in WP 0072 00.
13. Connect wire leads to rotary switch (4) using tags and wiring diagram. Remove tags.
14. Carefully push instruction plate (2) and sub panel (3) into place.
15. Install four flat washers, lock washers, and screws.
16. Install the thermostat knob.
17. Close control panel cover door (1) and tighten two fasteners.



To test the thermostat, proceed as follows:

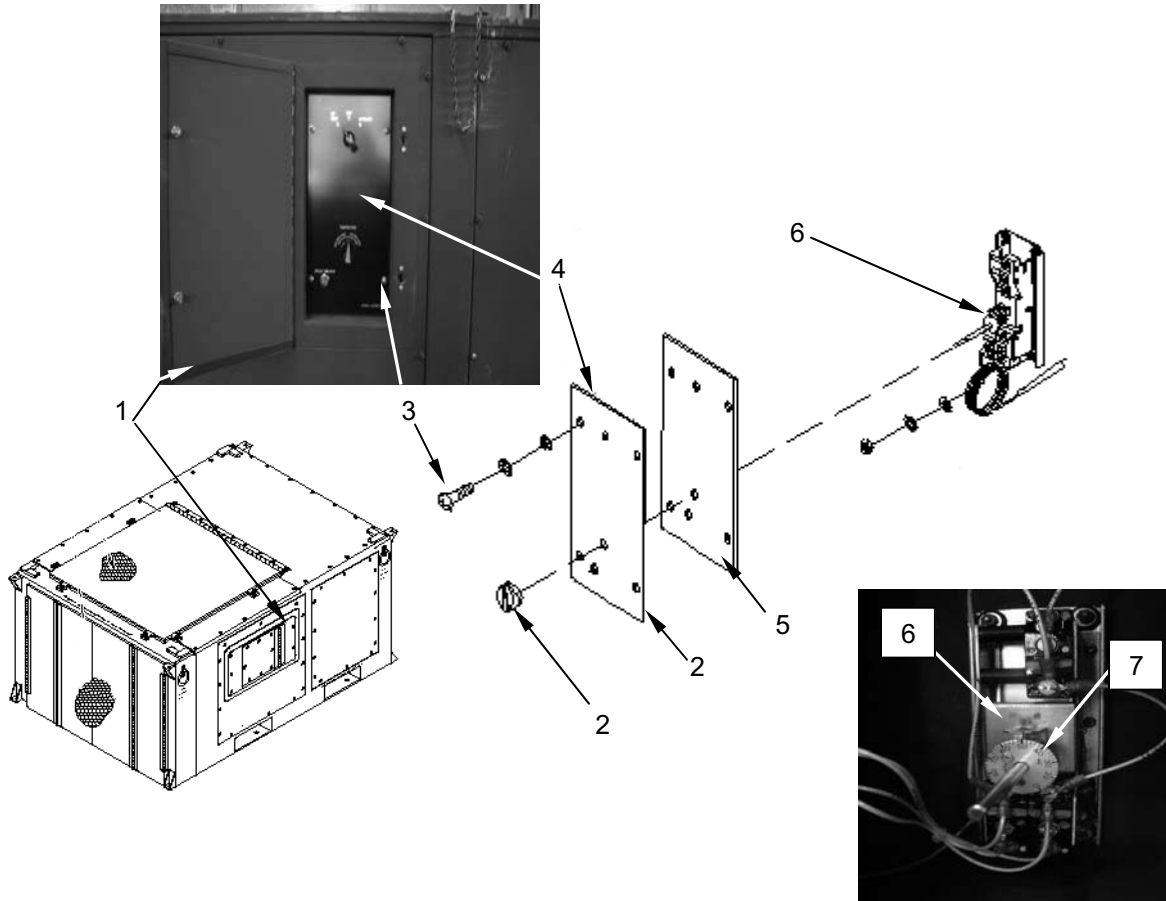


### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Loosen two fasteners and open control panel cover door (1).
3. Loosen setscrew and remove thermostat knob (2).
4. Remove four screws, lock washers, and flat washers (3) from panel (4).
5. Carefully pull panel (4) and sub panel (5) out as far as wire leads will allow.
6. Tag and disconnect wire leads from thermostat (6).
7. Turn thermostat temperature adjusting dial (7) to the lowest temperature position.
8. Using a multimeter set to measure continuity, check between terminals 1R (Red) and 1B (Blue) then 2R and 2B. Refer to the diagram following the procedure to test the circuit breaker, as necessary. If continuity is indicated, replace thermostat (6) as described in WP 0072 00.
9. Check continuity between terminals 3R and 3Y (Yellow) while slowly turning temperature adjusting dial (7) toward the highest temperature position. Refer to the diagram following the procedure to test the circuit breaker, if necessary. Stop turning the adjusting dial when switch contacts open indicated by no continuity. If switch contacts do not open, replace thermostat (6) as described in WP 0072 00.
10. Check continuity between terminals 2R and 2B while continuing to slowly turn temperature adjusting dial (7) toward the highest temperature position. Refer to the diagram following the procedure to test the circuit breaker, if necessary. Stop turning the adjusting dial when switch contacts close indicated by continuity. If switch contacts do not close, replace thermostat (6) as described in WP 0072 00.
11. Check continuity between terminals 1R and 1B while continuing to slowly turn temperature adjusting dial (7) toward the highest temperature position. Refer to the diagram following the procedure to test the circuit breaker, if necessary. Stop turning the adjusting dial when switch contacts close indicated by continuity. If switch contacts do not close, replace thermostat (6) as described in WP 0072 00.
12. Connect wire leads to thermostat (6) using tags and wiring diagram. Remove tags.

13. Carefully push panel (4) and sub panel (5) into place.
14. Install four flat washers, lock washers, and screws (3).
15. Install thermostat knob (2) and tighten setscrew.
16. Close control panel cover door (1) and tighten two fasteners.



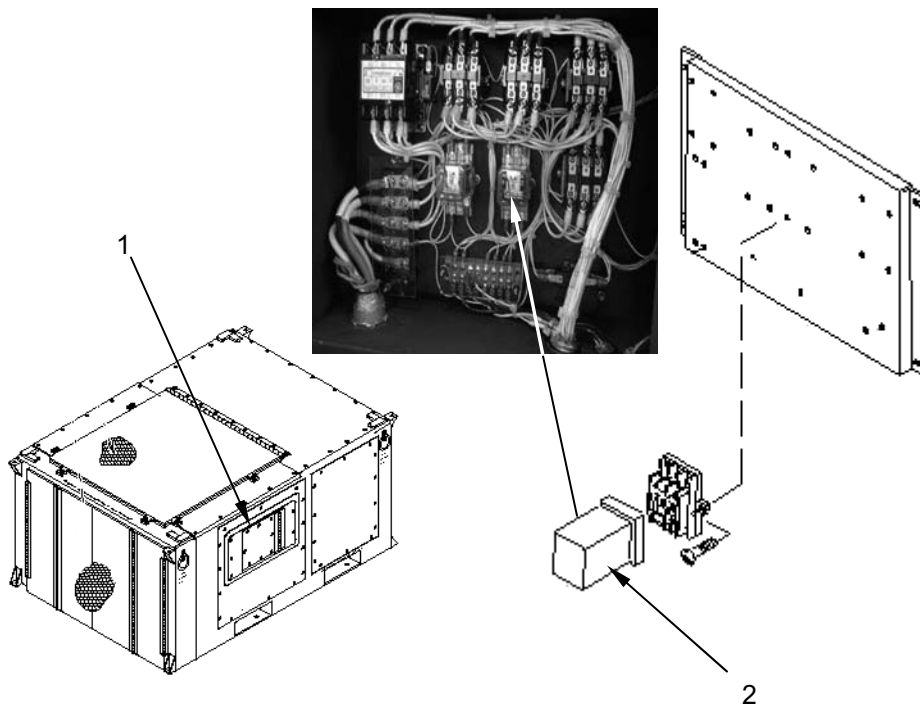
To test relay K4 or K5, proceed as follows:



### WARNING

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Remove control panel cover (1).
3. Remove relay (2).
4. Using a multimeter set to measure continuity, check between terminals 7 and 4, 8 and 5, then 9 and 6. Refer to the diagram following the procedure to test the circuit breaker, as necessary. If continuity was indicated between any terminals, replace relay as described in WP 0072 00.
5. Check continuity between terminals 9 and 3 then A and B. Refer to the diagram following the procedure to test the circuit breaker, as necessary. If continuity is not indicated, replace relay as described in WP 0072 00.
6. Re-install relay (2).
7. Install control panel cover (1).



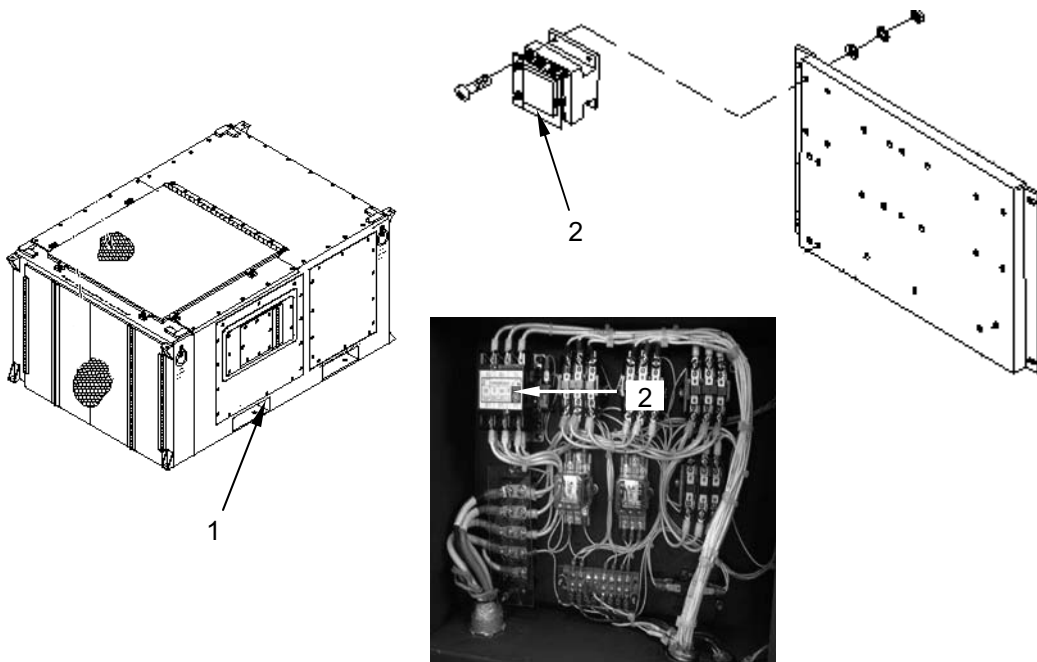
To test relay contactor K3, proceed as follows:



### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Remove control panel cover (1).
3. Tag and disconnect wire leads from relay (2).
4. Using a multimeter set to measure continuity, check between terminals L1 and T1, L2 and T2, L3 and T3. Refer to the diagram following the procedure to test the circuit breaker, as necessary. If continuity was indicated between any terminals, replace relay (2) as described in WP 0072 00.
5. Connect wire leads to relay (2) using tags and wiring diagram. Remove tags.
6. Install control panel cover (1).



To test relay K1, K2, K7, and K8, proceed as follows:

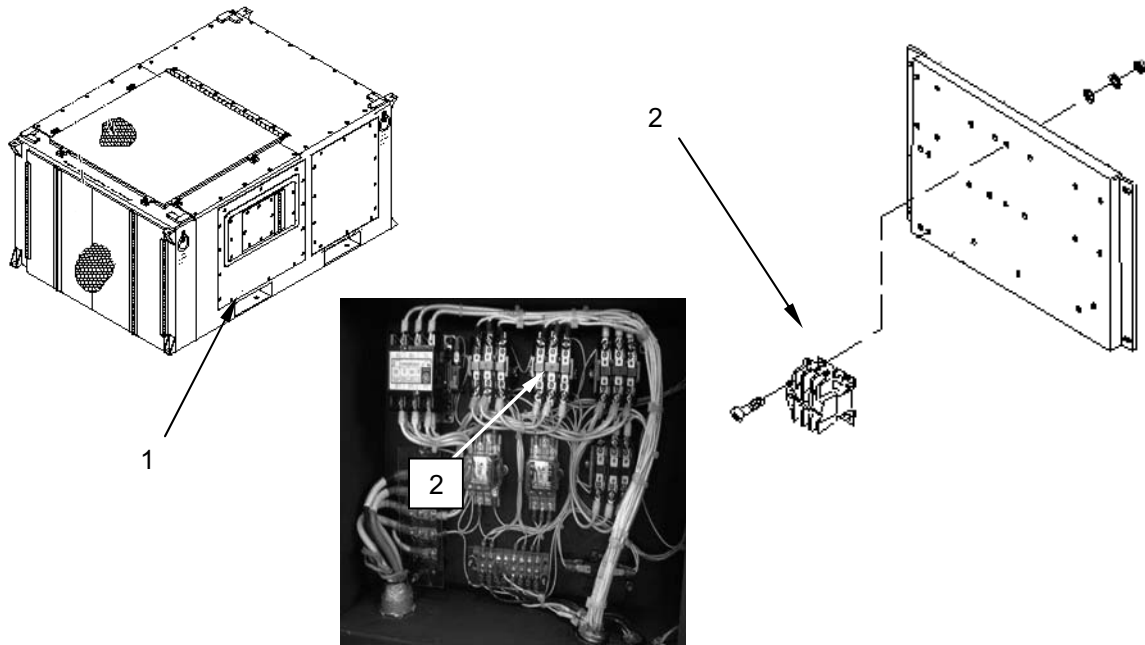


### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure the power has been disconnected.
2. Remove control panel cover (1).

3. Tag and disconnect wire leads from relay (2).
4. Using a multimeter set to measure continuity, check between terminals L1 and T1, L2 and T2, L3 and T3. Refer to the diagram following the procedure to test the circuit breaker, if necessary. If continuity was indicated between any terminals, replace relay (2).
5. Connect wire leads to relay (2) using tags and wiring diagram. Remove tags.
6. Install control panel cover (1).



To test time delay relay K6, proceed as follows:



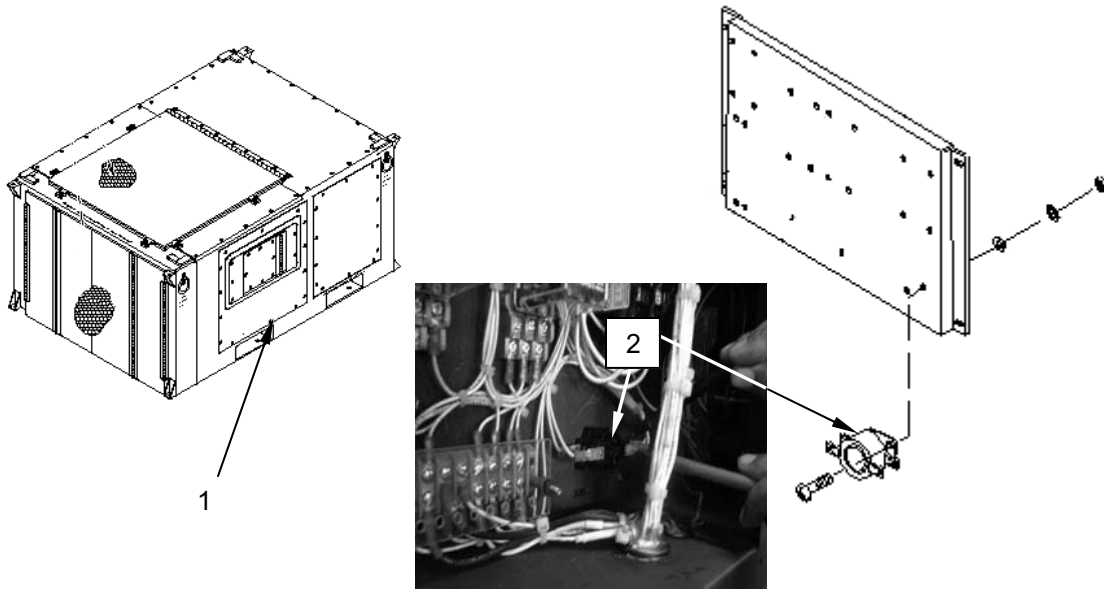
**WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure the power has been disconnected.
2. Remove control panel cover (1).
3. Tag and disconnect wire leads from time delay relay (2).
4. Using a multimeter set to measure continuity, check between terminals 1 and 3. Refer to the diagram following the procedure to test the circuit breaker, as necessary. If continuity was indicated, replace time delay relay (2) as described in WP 0072 00.
5. Check continuity between terminals H2 and H4. Refer to the diagram following the procedure to test the circuit breaker, as necessary. If no continuity was indicated, replace time delay relay (2) as described in WP 0072 00.
6. Connect wire leads to time delay relay (2) using tags and wiring diagram. Remove tags.



7. Install control panel cover (1).



To test the high temperature cutout switch, proceed as follows:

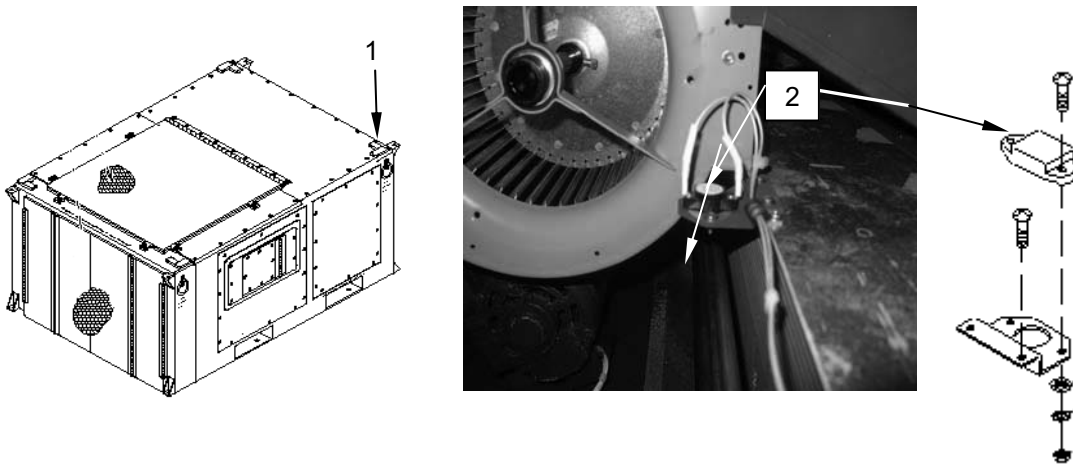


### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Remove right panel (1).
3. Tag and disconnect wire leads from high temperature cutout switch (2).
4. Using a multimeter set to measure continuity, check between high temperature cutout switch leads 1 and 2. Refer to the diagram following the procedure to test the circuit breaker, as necessary. If no continuity was indicated, replace high temperature cutout switch (2) as described in WP 0072 00.
5. Check continuity between ground and each lead 1 and 2. Refer to the diagram following the procedure to test the circuit breaker, as necessary. If continuity was indicated between ground and any lead, replace high temperature cutout switch (2) as described in WP 0072 00.
6. Connect wire leads to high temperature cutout switch (2) using tags and wiring diagram.
7. Remove tags.

8. Install right panel (1).



To test the wires, cables, and harnesses, proceed as follows:

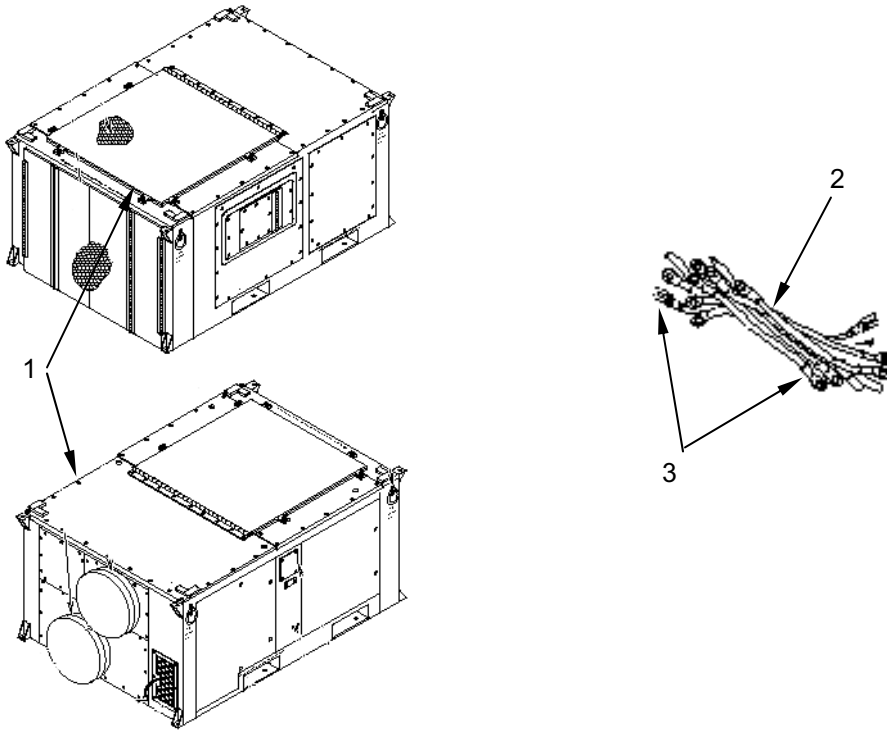


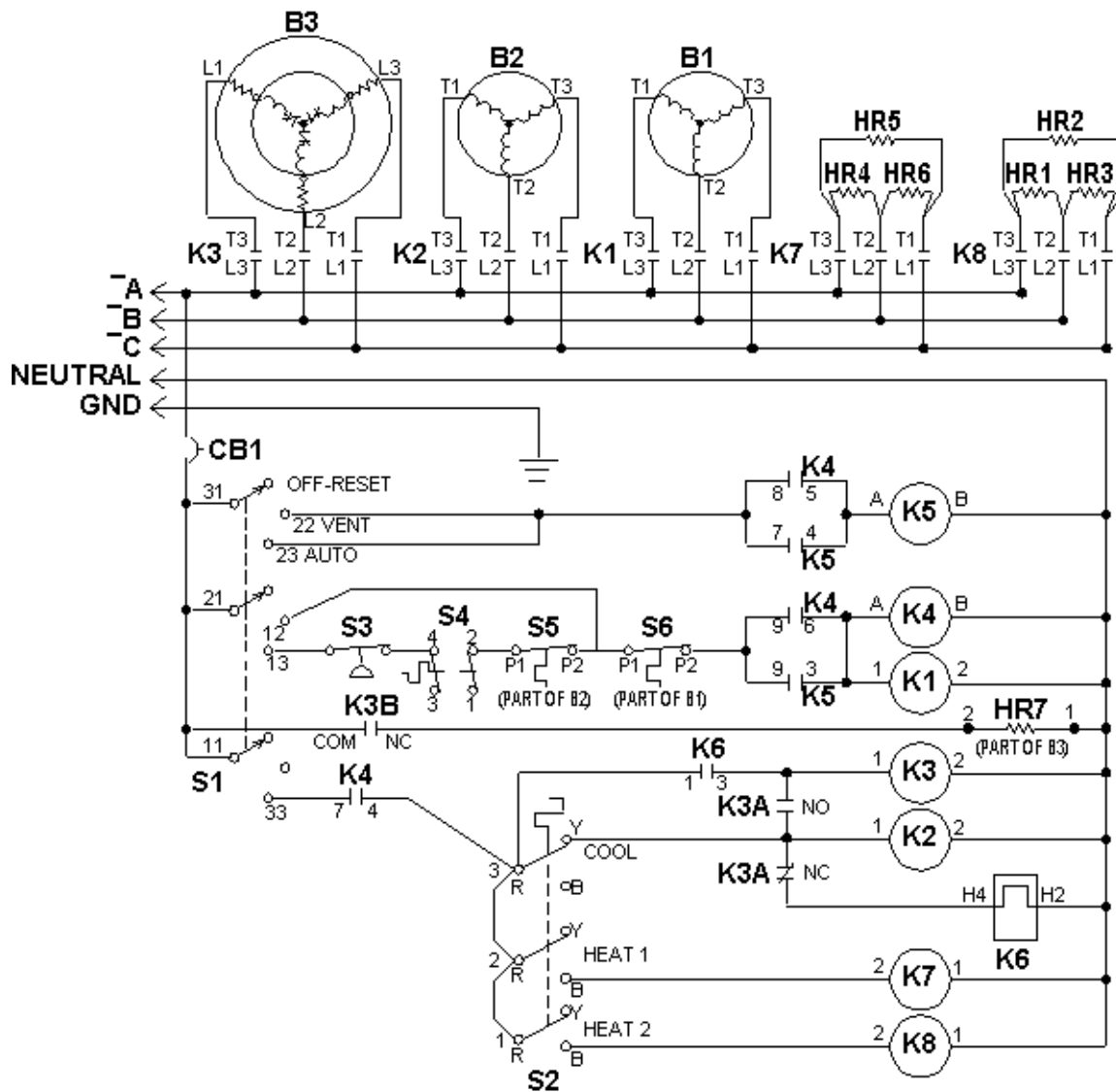
### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.
2. Open/remove panels and covers on the ECU (1) as necessary to gain access to wires, cables, or harnesses as necessary (2).
3. Tag and disconnect wire leads (3) from components as necessary to isolate the wire, cable, or harness being tested. Refer to the following schematic as necessary.
4. Using multimeter set to measure continuity, check each end of the wire lead(s) (3).
5. Replace any wire lead(s) (3) that do not show continuity.

6. Connect wire lead(s) (3) per tag and wiring diagram. Remove tag.





COMPONENT REFERENCE LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B1	MOTOR, EVAPORATOR	K4,5	RELAY
B2	MOTOR, CONDENSER FAN	K6	RELAY, TIME DELAY
B3	COMPRESSOR	K7, K8	RELAY, HEATERS
CB1	CIRCUIT BREAKER	S1	SWITCH, SELECTOR
HR1-6	HEATER ELEMENT	S2	SWITCH, THERMOSTAT
HR-7	CRANKCASE HEATER	S3	SWITCH, HIGH PRESSURE CUTOUT
K1	RELAY, EVAPORATOR FAN	S4	SWITCH, HIGH TEMPERATURE CUTOUT
K2	RELAY, CONDENSER FAN	S5	SWITCH, CONDENSER FAN, THERMAL CUTOUT
K3	RELAY, COMPRESSOR	S6	SWITCH, EVAPORATOR FAN, THERMAL CUTOUT

To test the condenser fan motor, proceed as follows:



### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.

### **NOTE**

Before proceeding, the condenser fan motor may also be checked at relay K2. If the motor is to be checked at K2, refer to WP 0072 00 for access instructions to this relay.

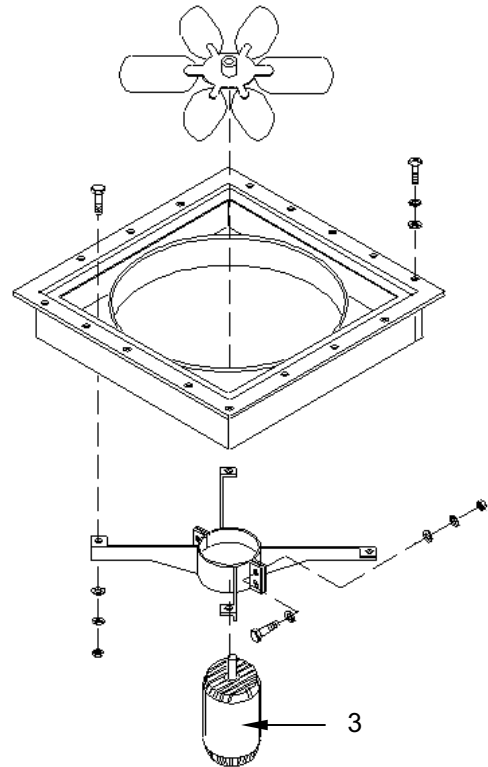
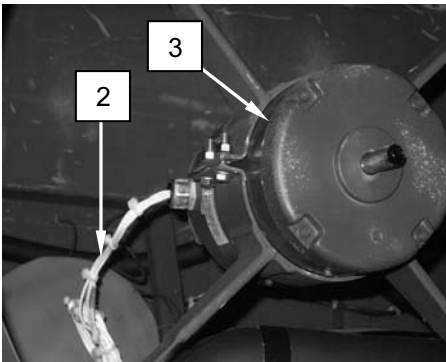
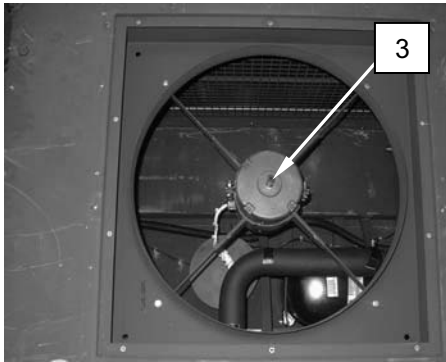
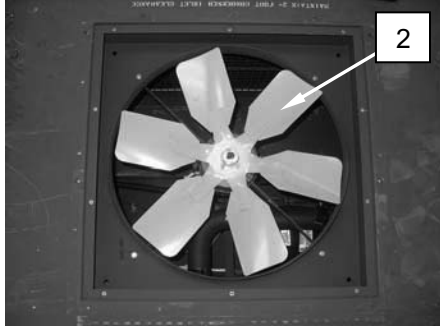
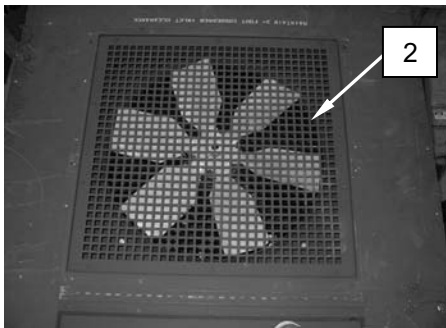
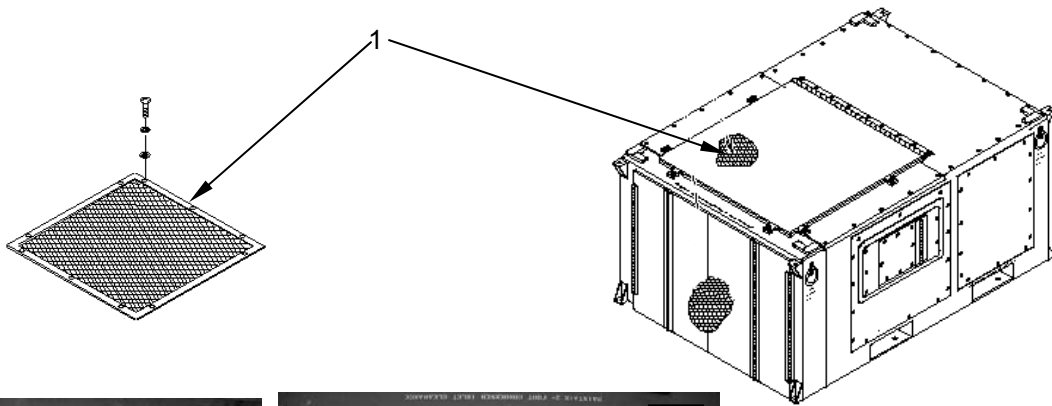
2. Remove condenser fan grill (1).
3. Remove condenser fan (2) with condenser fan puller.
4. Tag and disconnect wire leads from condenser fan motor (3).

### **NOTE**

The following instructions also apply if the condenser fan motor is being checked from relay K2.

5. Using a multimeter set to measure continuity, check between condenser fan motor leads T1 and T2, T1 and T3, then T2 and T3. Refer to the schematic following the procedure to test the wiring, cables, and harness above. If no continuity was indicated, replace condenser fan motor (3) as described in WP 0072 00.
6. Check continuity between condenser fan motor case and each lead T1, T2, and T3. Refer to the schematic following the procedure to test the wiring, cables, and harness above. If continuity was indicated between case and any lead, replace condenser fan motor (3) as described in WP 0072 00.
7. Check condenser fan motor shaft for looseness and free turning. Replace condenser fan motor (3) if loose or binding.
8. Connect wire leads to condenser fan motor (3) using tags and wiring diagram. Remove tags.
9. Install condenser fan (2).

10. Install condenser fan grille (1).



To test the evaporator fan motor, proceed as follows:



### **WARNING**

Voltages and rotating parts used in this ECU can kill or injure personnel. Always disconnect power at the source before performing any internal maintenance. Turning the ECU off at the control panel does not disconnect the power.

1. Be sure that the power has been disconnected.

### **NOTE**

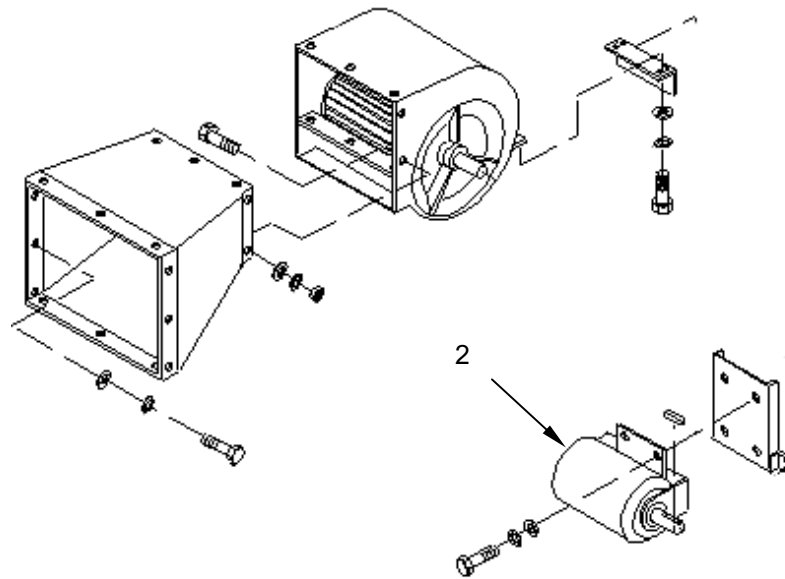
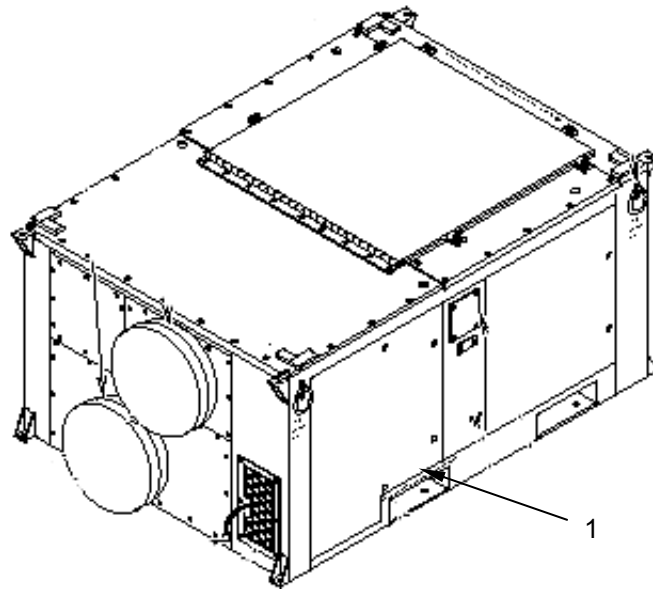
Before proceeding, the evaporator fan motor may also be checked at relay K1. If the motor is to be checked at K1, refer to WP 0072 00 for access instructions to this relay.

2. Open the left front door (1).
3. Tag and disconnect wire leads from evaporator fan motor (2).

### **NOTE**

The following instructions also apply if the evaporator fan motor is being checked from relay K1.

4. Using a multimeter set to measure continuity, check between evaporator fan motor leads T1 and T2, T1 and T3, then T2 and T3. Refer to the schematic following the procedure to test the wiring, cables, and harness above. If no continuity was indicated, replace evaporator fan motor (2) as described in WP 0072 00.
5. Check continuity between evaporator fan motor case and each lead T1, T2, and T3. Refer to the schematic following the procedure to test the wiring, cables, and harness above. If continuity was indicated between case and any lead, replace evaporator fan motor (2) as described in WP 0072 00.
6. Check evaporator fan motor shaft for looseness and free turning. Replace evaporator fan motor (2) (as described in WP 0072 00) if fan motor shaft is loose or binding.
7. Connect wire leads to evaporator fan motor (2) using tags and wiring diagram. Remove tags.
8. Close left front door (1).

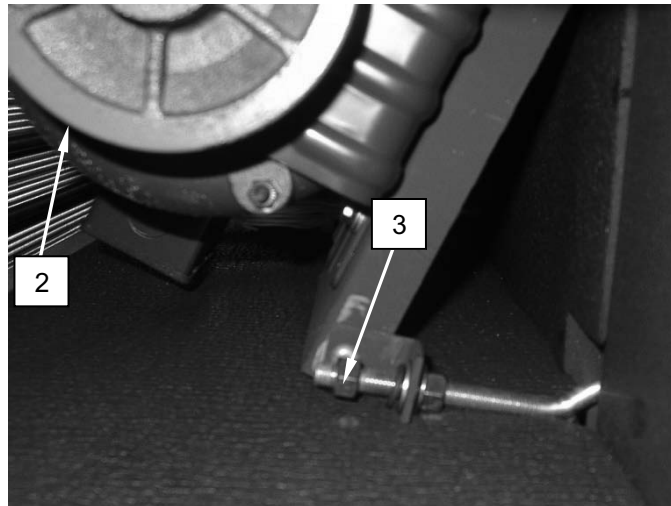
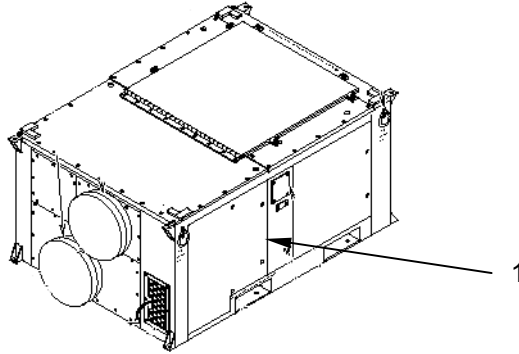




**ADJUST**

To adjust the evaporator fan belt, proceed as follows:

1. Open the left front door (1).
2. Adjust the fan belt by moving the motor (2) with the adjusting bolt (3).
3. Check the evaporator fan belt. The evaporator fan belt should deflect no more than  $\frac{3}{8}$  inches. Readjust if necessary.
4. Close the left front door (1).



**END OF WORK PACKAGE**



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**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
FLOODLIGHTS  
INSPECT/REPAIR/REPLACE**

---

**INITIAL SETUP:****Tools**

Tool Kit, General Mech. Automotive (WP 0083 00, Table 2, Item 5)

**Personnel Required**

Two

**Materials/Parts**

Gloves Insert, Cotton (WP 0102 00, Item 53)

**Equipment Condition**

Floodlights must be disconnected from power and allowed to cool off for 30 minutes.

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**INSPECT**

Inspect tripod floodlights as described in WP 0059 00.

**REPLACE**

To replace a light head assembly on the tripod floodlights, proceed as follows:



**WARNING**

Disconnect the power from the floodlight before attempting any maintenance procedure. Failure to observe proper safety precautions may result in injury or death to personnel by electrocution.



**WARNING**

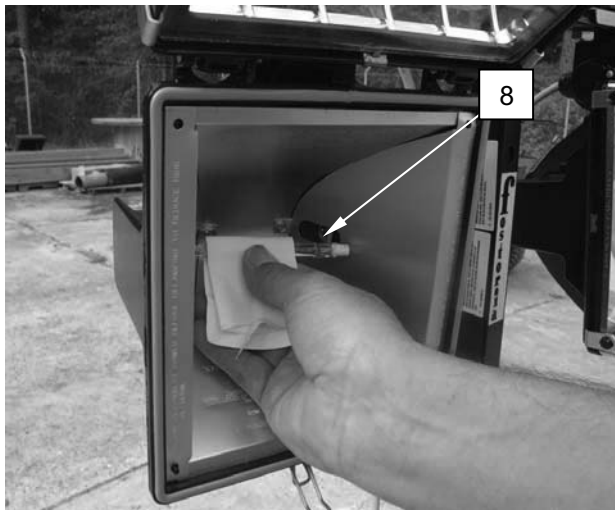
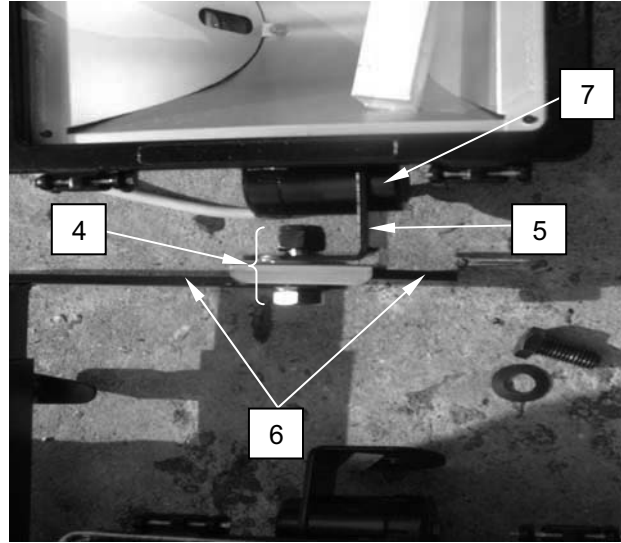
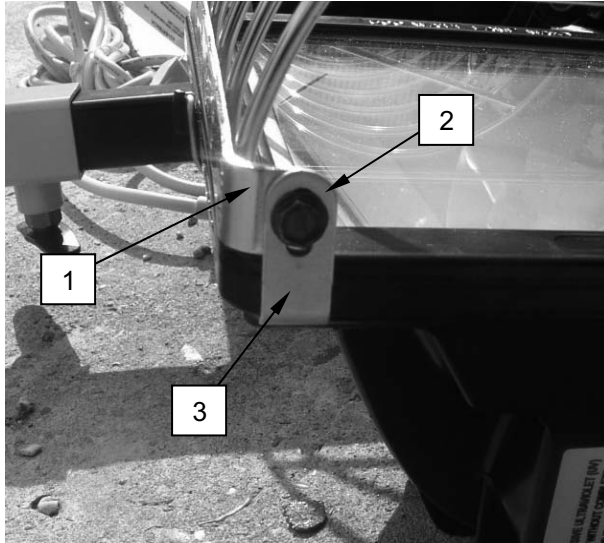
Ensure that flood light has been allowed to cool down for at least 30 minutes. Failure to observe proper safety precautions may result in injury from burns.

1. Disconnect the floodlight from the power supply. Let all light heads mounted on the tripod cool down for at least 30 Minutes before touching any light head.
2. Removed the guard (1) by removing the screws (2) and brackets (3). Retain the hardware.
3. Loosen, remove and retain the mounting hardware (4), securing the light head trunnion angle bracket (5) to the light head bar, or adapter (6) and remove the light head with trunnion (7) and angle bracket (5) attached.
4. Install the replacement light head with trunnion (7) and angle bracket (5) on the light head bar, or adapter (6) and secure with retained hardware (4). Refer to WP 0035 00, if necessary, for detailed installation procedures.

**CAUTION**

Flood light lamps will be damaged if touched with bare hands. Use cloth or gloves to remove lamps.

5. Using cotton cloth or glove inserts, install a 500 Watt halogen light bulb (8) into the new lamp head as shown below.
6. Re-install the lamp guards (1) as shown with the bars in the vertical position, using the mounting brackets (3) and screws (2) retained.
7. To adjust light heads loosen the torque on the trunnion swivel (9), set the light head as desired, then re-torque to secure the trunnion.
8. Position the floodlight where desired and re-connect the floodlight to a 120V, 60 Hz power source. (Refer to WP 0035 00 for subsystem floodlight layout.)



**END OF WORK PACKAGE**

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**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
TRANSFORMER 150 kVA, 208V WYE  
INSPECT/SERVICE/REPAIR/REPLACE**

---

**INITIAL SETUP:****Tools**

Tool Kit, Electrician (Prime Power Company Asset)  
Multimeter (Prime Power Company Asset)

**Personnel Required**

Two personnel  
MOS 51R, 52C, 52D, or 52G  
(Or qualified civilian personnel)

**Materials/Parts**

Rags, Wiping (WP 0102 00, Item 79)  
Tape, Insulating (WP 0102 00, Item 90)

**Equipment Condition**

Power disconnected from grid.  
Equipment in operational configuration.

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**WARNING**

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MSPP components transmit high voltage. Only MOS 51R, 52C, 52D, 52G, or qualified civilian personnel are authorized to inspect, repair and replace components.

**INSPECT**


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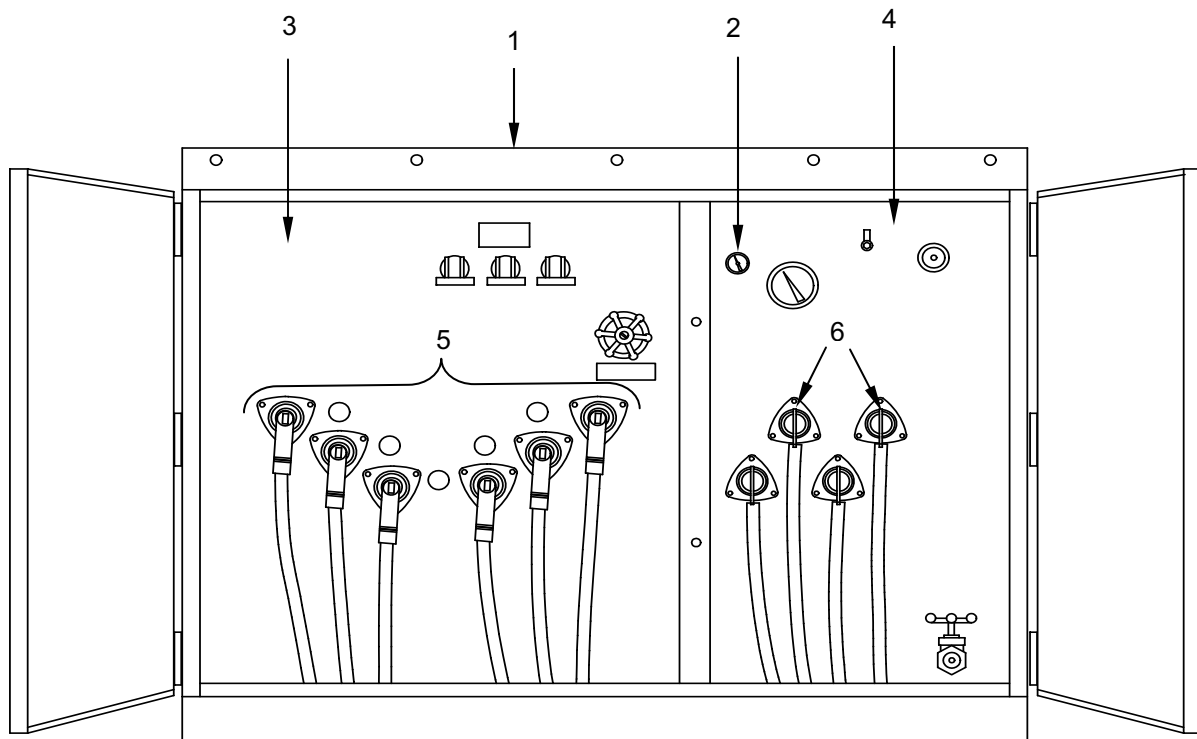
**WARNING**

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MSPP components transmit high voltage. Always disconnect power at the source before performing any inspection procedures.

To inspect the transformer, proceed as follows:

1. Inspect transformer (1) for evidence of physical damage. Check the oil gauge (2) located in the low voltage cabinet to determine if it indicates the proper oil level (check at temperature of 25<sup>0</sup> C, 77<sup>0</sup> F).
2. Check insulated connectors (2) in the transformer high (3) and low voltage (4) compartments for damage and proper connection of loadbreak elbow connectors (5) and pigtails (6).
3. Examine each (out) side of the transformer for evidence of oil leak(s).
4. Inspect the transformer housing for rust, corrosion or dents.

**SERVICE****WARNING**

MSPP components transmit high voltage. Always disconnect power at the source before performing any service procedures.

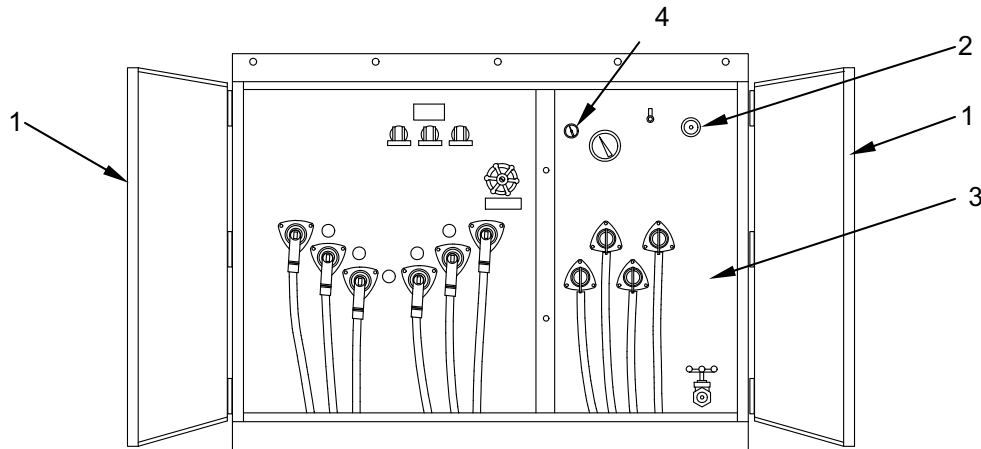
To add transformer oil, proceed as follows:

1. Ensure that the transformer is at operating temperature (25<sup>0</sup> C, 77<sup>0</sup> F).
2. Disconnect the transformer from the Force Provider power grid. There should be no cable connections to the transformer.
3. Open the transformer compartment doors (1).
4. Ensure that the transformer is protected from moisture, dirt, and other potential contaminants. Move the transformer inside if possible.
5. Remove the fill plug (2) on the low voltage panel (3).

**CAUTION**

Oil or insulating fluid must come from an unopened container in order to prevent contamination from moisture or solids. Take care not to handle the oil container excessively. Oil contaminated with moisture, solids, or air can shorten the life of the transformer, and may cause transformer burnout when the transformer is placed back in service.

6. Use a clean tube or funnel to add oil from an unopened container. Have an assistant monitor the oil level gauge (4). Do not overfill.
7. Recap the oil fill immediately after filling the transformer.



## REPAIR

### NOTE

Repair is limited to replacement of damaged components.



### WARNING

MSPB components transmit high voltage. Always disconnect power at the source before performing any repair procedures.

To repair open bayonet fuses, proceed as follows:

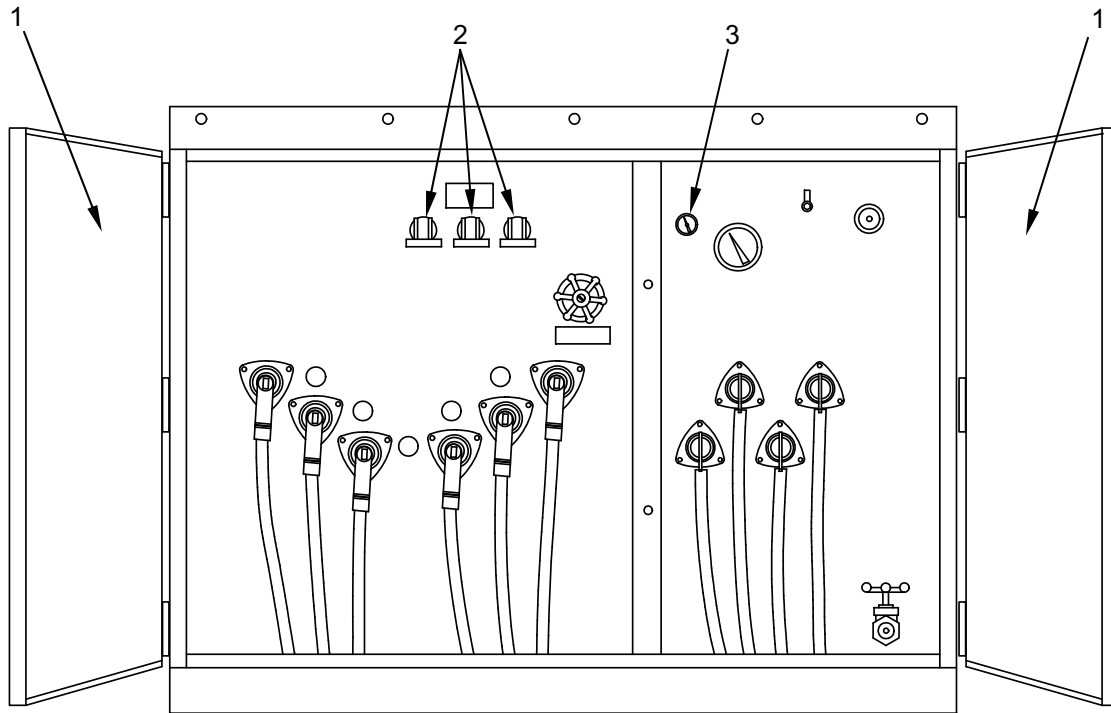
1. Ensure that the transformer is completely disconnected from the Force Provider power grid. There should be no cable connections to the transformer.
2. Open the transformer doors (1).
3. Ensure that the transformer is protected from moisture, dirt, and other potential contaminants. Move the transformer inside if possible.
4. Use a hot stick to unscrew the fuse as an assembly (2).



### WARNING

Always replace fuses with identically rated fuses. Replacement of a fuse with a lower rating will cause fuse burnout. Replacement of the fuse with one of a higher rating may cause rapid component damage, with the risk of fire or electrocution for personnel.

5. Remove the spent fuse and replace with a fuse of identical rating.
6. Install the fuse as an assembly (2).
7. Check the oil level (3), and replenish if necessary, as described under SERVICE.



### **WARNING**

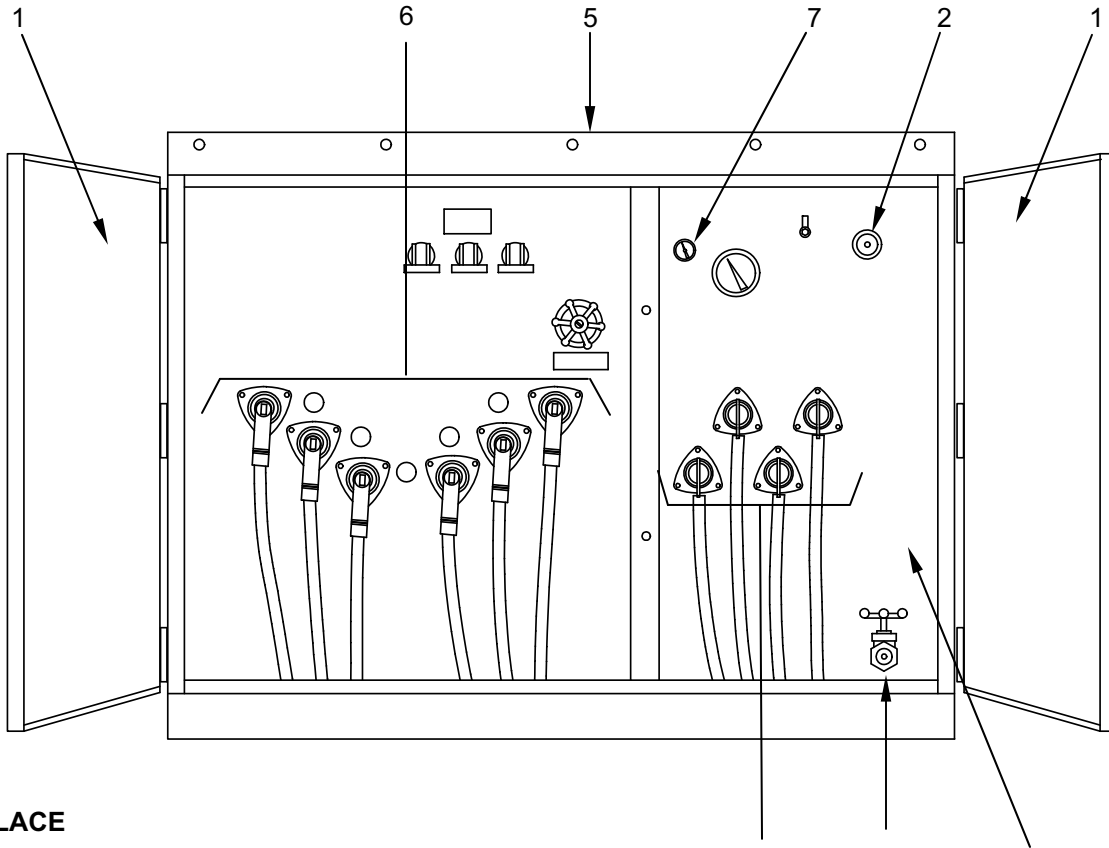
MSPP components transmit high voltage. Always disconnect power at the source before performing any repair procedures.

To repair the transformer, proceed as follows:

1. Ensure that the transformer is completely disconnected from the Force Provider power grid. There should be no cable connections to the transformer.
2. Open the transformer doors (1).
3. Ensure that the transformer is protected from moisture, dirt, and other potential contaminants. Move the transformer inside if possible.
4. Remove the fill plug (2) on the low voltage panel (3).
5. Open the oil drain valve (4) and drain the oil from the transformer. Discard the oil at an approved POL disposal point. Do not reuse transformer oil.
6. Remove the false top (5) from the transformer panel.
7. Remove the hand hole and hand hole-gasket from the transformer.
8. Repair the bushings (6) as necessary by disconnecting the bushing from the transformer core, and then removing the bushing retaining plate and gasket. Install a replacement bushing and gasket, and secure with the bushing retaining plate.
9. Repair the internal oil submersible fuses as necessary by removing the burnt out fuse and replacing with a fuse of identical rating.



10. Repair the liquid level gauge (7) by removing the retaining clamp from the back of the gauge and pulling the gauge and float assembly out through the panel.



**REPLACE**

Replace a transformer that cannot be repaired as described under REPAIR.

**END OF WORK PACKAGE**



UNIT MAINTENANCE

FORCE PROVIDER

(NSN 5419-01-473-2294)

MODIFICATION SYSTEM COLD WEATHER SITE PREPARATION EQUIPMENT  
INSPECT/SERVICE/REPLACE

**INITIAL SETUP:**

**Tools**

Tool Kit, Carpenter's (WP 0083 00, Table 2, Item 3)  
Tool Kit, General Mech. Automotive (WP 0083 00,  
Table 2, Item 5)

**Materials/Parts**

Rags, Wiping (WP 0102 00, Item 79)  
Motor Oil, Lubricating (WP 0102 00, Item 69)

**Personnel Required**

One

**Equipment Condition**

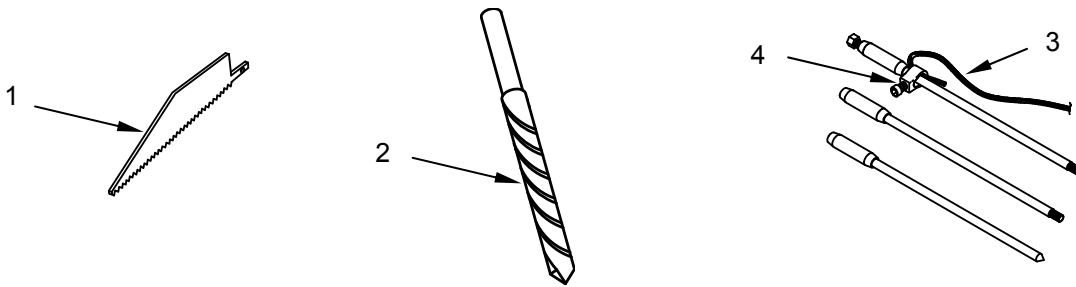
Power equipment disconnected.

**References**

TM 10-5419-206-23P

**INSPECT**

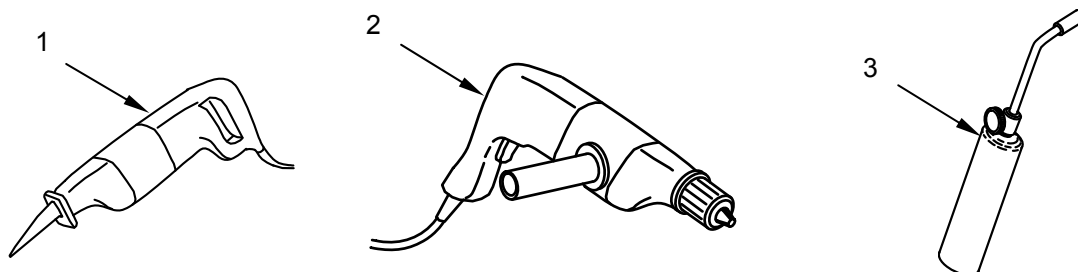
Inspect the site preparation equipment. Check for serviceability of tools and implements furnished. (Refer to WP 0100 00 for a complete listing and illustrations of items.) Check for rust on metal parts, bent or damaged saw blades (1) and drill bits (2), missing lead (3) or fastening hardware (4) on ground rod.



**SERVICE**

Service the site preparation equipment as follows:

1. Clean and remove rust from site preparation equipment as necessary.
2. Apply a light coat of oil to bare metal parts, as appropriate.
3. Service/maintain the reciprocating in-line saw (1), the rotary hammer drill (2), and the torch assembly (3) as described in accompanying manufacturer's commercial literature.



**REPLACE**

Replace any missing, damaged, or inoperative site preparation equipment using the data found in TM 10-5419-206-23P.

**END OF WORK PACKAGE**

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**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
HEAT TRACED HOSES  
INSPECT/REPAIR/REPLACE**

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**INITIAL SETUP:****Tools**

None

**Personnel Required**

One

**Materials/Parts**

Gasket, QDISC, 1 ¼" (WP 0102 00, Item 46)

Gasket, QDISC, 1 ½" (WP 0102 00, Item 50)

Gasket, QDISC, 2 ½" (WP 0102 00, Item 48)

Rags, Wiping (WP 0102 00, Item 79)

Tape, Insulating (WP 0102 00, Item 90)

**Equipment Condition**

Equipment not in use.




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**WARNING**

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Disconnect hose power cords before attempting any repairs. Failure to observe this warning may result in electrocution, severe injury, or death.




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**WARNING**

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To prevent water contamination and resulting sickness or death, never mix or exchange parts between potable and graywater hoses. Do not inspect and repair these hoses in the same area. An appliance exposed to contaminated water cannot be used with potable water system again.

**INSPECT**

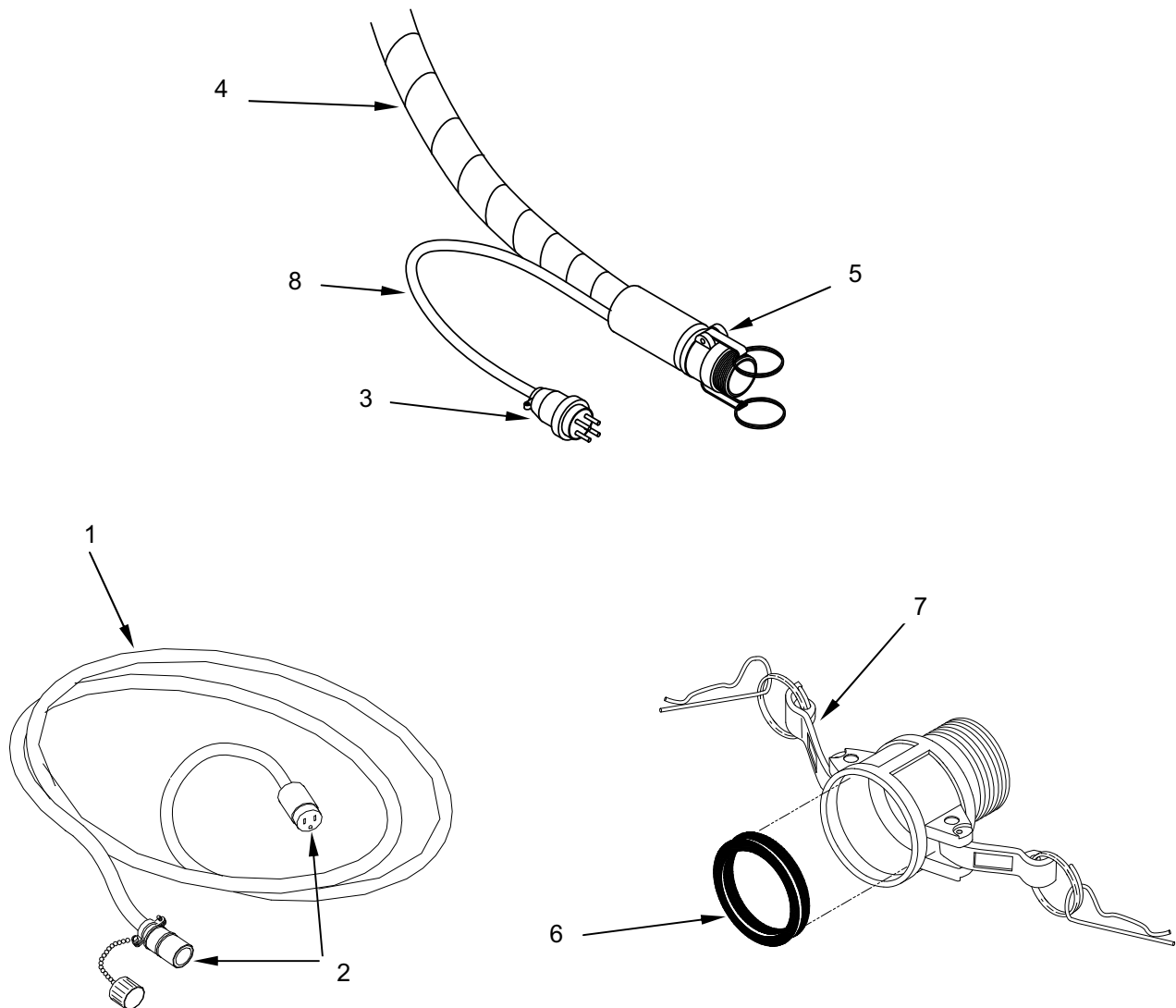
Inspect the equipment listed below as follows:

Extension Cord, Military to Commercial Connector, 20 A, 50-foot

Potable water hoses 1¼ -inch and 1½-inch, heat traced

Wastewater hoses 2½ -inch, heat traced

1. Inspect the extension cord for damage to the cable (1) such as abrasions, cuts, and tears. Check the connectors (2) for damage such as cracks, corrosion, or deformations that would prevent connection of the cable to the PDISE or heat traced hose power cords (3).
2. Check the hoses (4) for abrasions, cuts, and leaks or any other condition that will make them unserviceable.
3. Check the cam lock connectors (5) for secure attachment to the hose. Look for missing gaskets (6), damaged locking arms (7), corrosion, or deformation of the coupling that would prevent proper connection.
4. Check the heat trace power cords (8) for abrasions, cuts or damage to the connector.



**REPAIR**

Repair a hose by replacing the gasket (6) as necessary.

**REPLACE**

Replace an extension cord, military to commercial connector, 20A, 50-foot that is damaged and or inoperative. Replace a 1¼ -inch, or 1½ -inch heat traced potable water hose that leaks, or is damaged. Replace a 2½ -inch heat traced graywater hose that leaks, or is damaged.

**END OF WORK PACKAGE**

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**UNIT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
TRICON ADAPTER KIT  
INSPECT/REPLACE**

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**INITIAL SETUP:****Tools**

Tool Kit, General Mech. Automotive (WP 0083 00, Item 5)

**Personnel Required**

One

**Materials/Parts**

Rags, Wiping (WP 0102 00, Item 79)

**Equipment Condition**

Equipment set up but not in use.



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**WARNING**

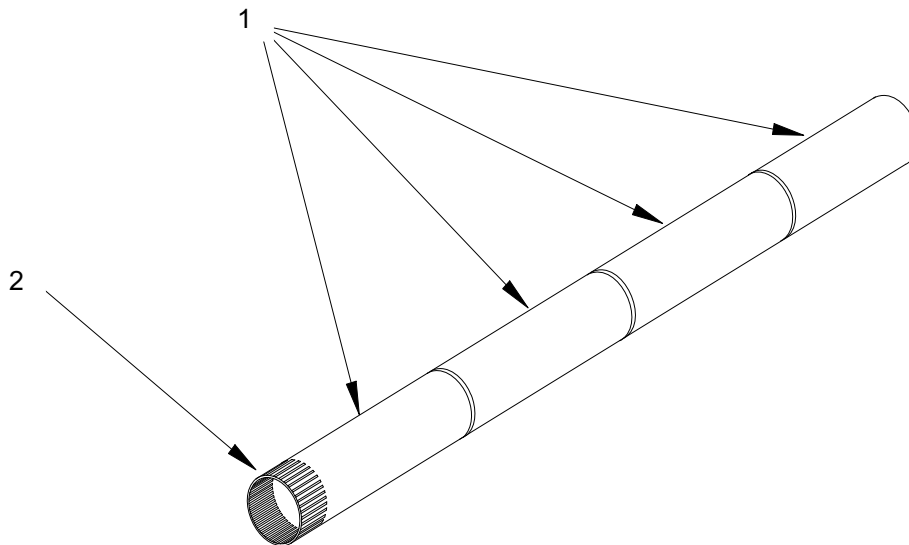
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Do not attempt to inspect or repair any part of the TRICON adapter kit until all components have cooled down. Failure to observe this warning may result in burn injury.

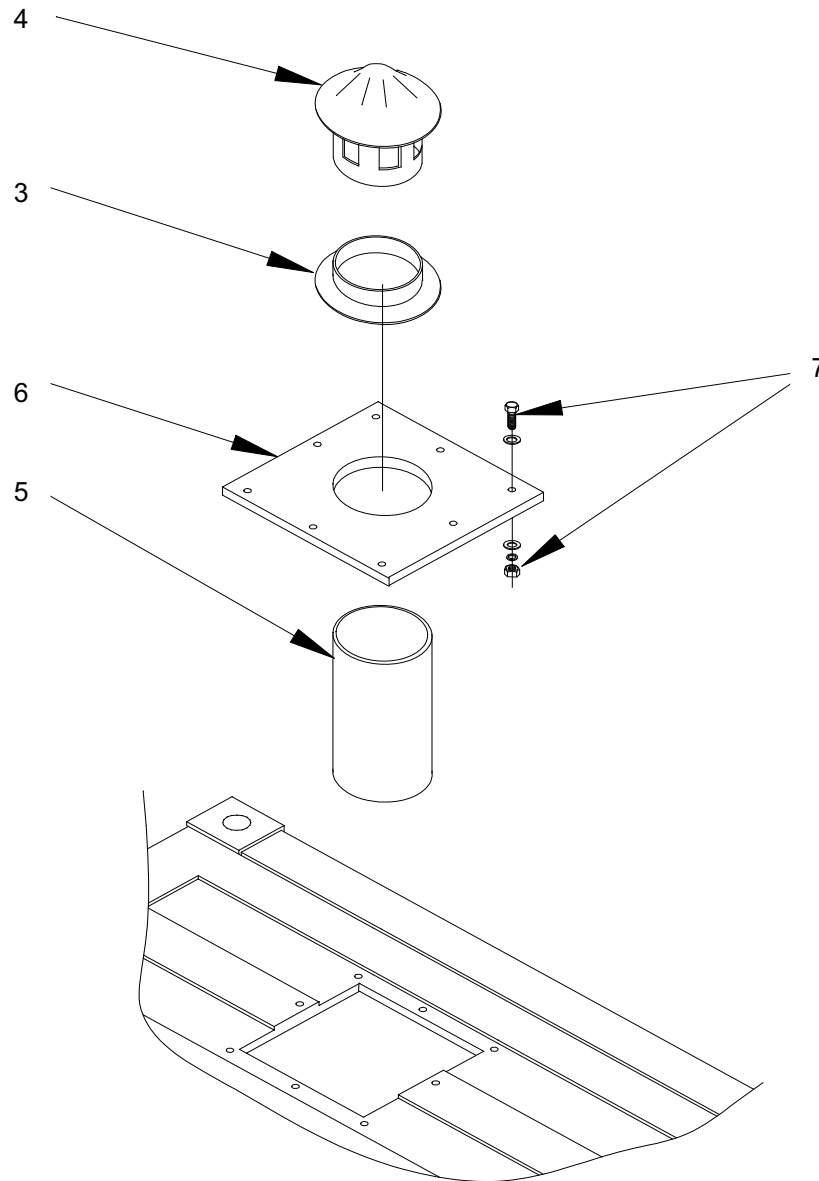
**INSPECT**

Inspect components of the TRICON adapter kit as follows:

1. Check the condition of four 24-inch long exhaust pipes (1). Inspect for deformations, rust, and condition of the ribbed end (2). Pieces should fit together tightly.



2. Check the condition of the angle flange (3) and rain cap (4). Inspect for deformations and rust. Pieces should fit together tightly.
3. Check the condition of the 8-inch diameter steel tube (5) and 11-inch diameter cover (6) on the modified TRICON. Inspect for deformations and rust. Check for presence and serviceability of mounting hardware (7).



## REPLACE

Replace any component of the TRICON adapter kit that is missing, damaged, corroded or otherwise unserviceable.

## END OF WORK PACKAGE



**CHAPTER 6**

**DIRECT SUPPORT MAINTENANCE INSTRUCTIONS  
FOR  
FORCE PROVIDER**



**DIRECT SUPPORT MAINTENANCE  
FORCE PROVIDER  
(NSN 5419-01-473-2294)  
FORCE PROVIDER FUEL SYSTEM (FPFS)  
REPAIR**

**INITIAL SETUP:****Tools**

Tool Kit: General Mechanics, Automotive (WP 0083 00, Item 5)  
Welding Equipment

**Materials/Parts**

See referenced publications

**References**

TM 5-805-7  
MIL-STD-171  
MIL-C 53039

**Personnel Required**

Two

**Equipment Condition**

Fuel Pump disconnected from power. Fuel pump drained of fuel.

**REPAIR**

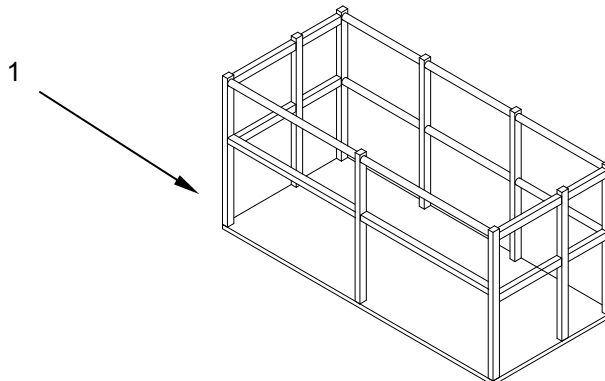
To repair the pump frame, proceed as follows:

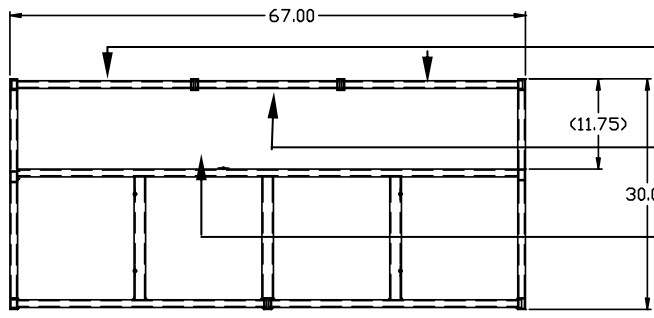


**WARNING**

Some fuel spillage may occur during this operation. Be prepared to collect residual fuel from hose with a pail and rags. Failure to observe this warning may result in environmental and equipment contamination, as well as potential fire hazard.

1. Disconnect the pump from its power and fuel supplies.
2. Frame (1) dents or bends, which do not impede pump operation, do not require corrective action.
3. Broken frame sections may be welded together. Severely bent frame sections may be cut and then welded together. Refer to TM 5-805-7 Welding Design, Procedures, and Inspection. Refer to Figure FRAME COMPONENTS AND DIMENSIONS in this WP to determine materials and applicable dimensions.
4. Weld in accordance with ANSI AWS D1.1 (Aluminum). Alternate methods of welding are permissible. Remove burrs and sharp edges to within R .005 – R.015.
5. Paint per MIL-STD-171. Prime per MIL-P-530-30 and paint top coat per MIL-C 53039. Color as required.



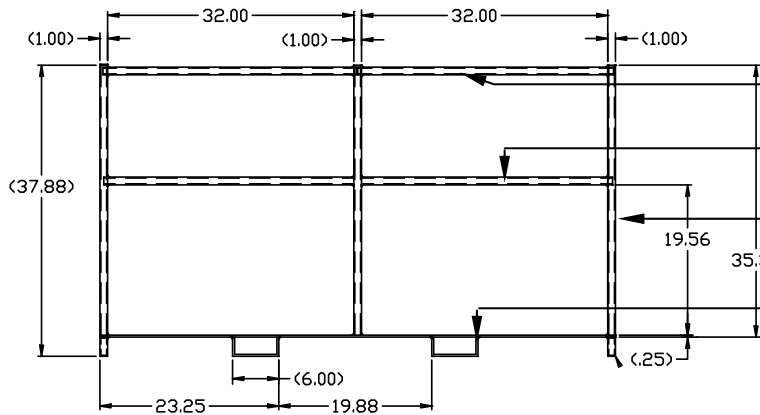


Tube, Round, Al, 6061-T6  
Ø1" x .125 Wall, 23.12" L

Tube, Round, Al, 6061-T6  
Ø1" x .125 Wall, 18.75" L

Plate, Al, 6061-T6,  
.250" THK, 67" x 30"

Top - View



Tube, Round, Al, 6061-T6  
Ø1" x .125 Wall, 32.62" L

Tube, Rect, Al, 6063-T53  
1.5" x 1.25" x 30.50" L

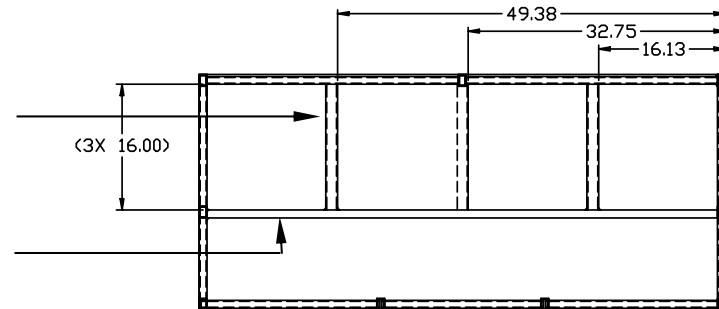
Tube, Rect, Al, 6063-T52  
2.5" x 1.25" x 30.00" L

Extruded Channel, Al, 6061-T6  
2.5" x 6" x 30.00" L

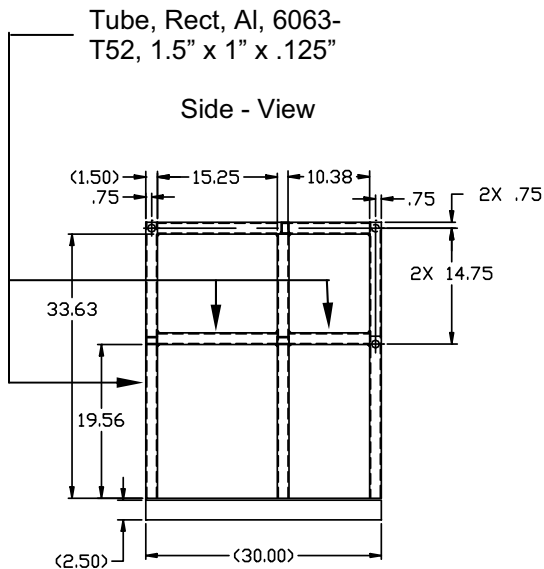
Front - View

Tube, Rect, Al, 6063-T52  
1.5" x 1" x .125" x 16.0" L

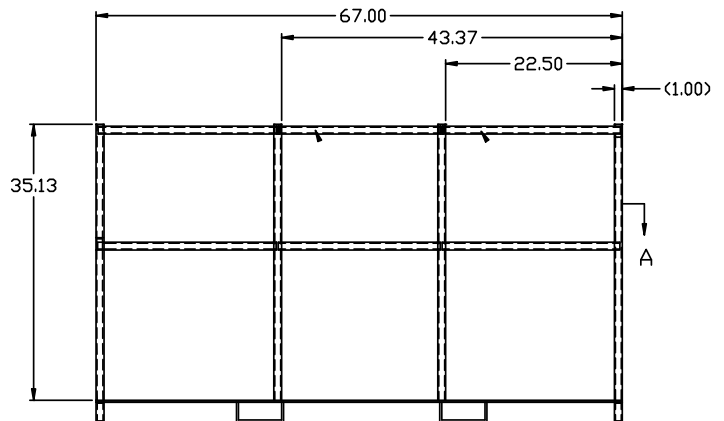
Tube, Rect, Al, 6063-T53  
1.5" x 1" x .25" x 63.0" L



Back - View



Side - View



Frame Components and Dimensions

END OF WORK PACKAGE

**CHAPTER 7**  
**SUPPORTING INFORMATION**  
**FOR**  
**FORCE PROVIDER**



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**FORCE PROVIDER  
REFERENCES**


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**REFERENCES**

This work package lists all Army regulations, field manuals, forms, technical manuals DA pamphlets, and miscellaneous publications referenced in this manual.

**ARMY REGULATIONS**

AR 30-1	Army Food Service Program
AR 30-22	The Army Food Program
AR 56-4	Management of Army Intermodal Container Systems
AR 210-50	Housing Management
AR 611-101	Commissioned Officer Classification System
AR 611-112	Manual of Warrant Officer Military Occupational Specialties
AR 611-201	Enlisted Career Management Fields and Military Occupational Specialty
AR 700-1 31	Loan & Lease of Army Materiel
AR 700-15	Packing of Materiel
AR 710-1	Centralized Inventory Management of the Army Supply System
AR 725-50	Requisitioning, Receipt and Issue System
AR 740-3	Care of Supplies in Storage

**FIELD MANUALS**

FM 1-0	Human Resources Support
FM 3-0	Operations
FM 3-07	Stability Operations
FM 3-34	Engineer Operations
FM 3-34.400	General Engineering
FM 3-34.480	Engineer Prime Power Operations
FM 4-0	Sustainment
FM 4-02	Force Health Protection in a Global Environment
FM 4-20.07	Quartermaster Force Provider Company
FM 4-25-11	First Aid
FM 4-94	Theater Sustainment Command
FM 42-414	Tactics, Techniques, and Procedures for Quartermaster Field Service
FM 6-22	Army Leadership
FM 6-22.5	Combat and Operational Stress Control Manual for Leaders
FM 10-1	Quartermaster Principles
FM 10-13	Supply and Services Reference Data
FM 10-16	General Fabric Repair
FM 10-23	Basic Doctrine for Army Field Feeding & Class I Operations Management
FM 10-27	General Supply in Theaters of Operation
FM 10-280	Mobile Field Laundry, Clothing Exchange, and Bath Operations
FM 10-52	Water Supply in Theaters of Operations
FM 10-52-1	Water Supply Point, Equipment and Operations
FM 10-67-1	Concepts and Equipment of Petroleum Operations
FM 100-9	Reconstitution
FM 12-6	Personnel Doctrine
FM 21-10	Field Hygiene and Sanitation
FM 21-11	First Aid for Soldiers
FM 26-2	Management of Stress in Army Operations
FM 42-414	Tactics Techniques and Procedures for Quartermaster Field Service
FM 5-100	Engineer Operations
FM 5-116	Engineer Operations, Echelon above Corps
FM 8-55	Planning for Health Service Support

**FORMS**

SF Form 368	Product Quality Deficiency Report
DA Form 1248	Road Reconnaissance Report
DA Form 2404	Equipment Inspection and Maintenance Worksheet

**TECHNICAL MANUALS**

TM 5-4110-242-14	Operator's, Organizational, Direct Support, and General Support Maintenance Manual for Refrigeration Unit, Mechanical, Panel Type, 10,000 Btu/hr, Electric Motor Driven, Model REMD-K/II-1OLS, NSN 4110-01-163-2140
TM 5-4110-248-23P	Unit and Intermediate Direct Support Repair Parts and Special Tools List for Refrigeration Unit, Mechanical; Panel Type; 5,000 BTU/Hour, 208 Volts AC, 3 Phase, 60 Hz, Electric Motor Driven, Model REMD/5K/H NSN 4110-01-275-9625
TM 5-4610-228-13	Operator's, Organizational and Direct Support Maintenance Manual for Water Distribution System Model WDS 20K; (NSN 4610-01-120-7529); Model WDS 40K; (4610-01-114-1451); Model WDS 300K; (4610-01-114-1453); Model WDS 800K; (4610-01-114-1450); Model WDS 1,000K (4610-01-114-1452);
TM 5-4610-228-23P	Organizational and Direct Support Maintenance Repair Parts and Special Tools List Water Distribution System Model WDS 20K (NSN 4610-01-120-7529), Model WDS 40K; (4610-01-114-1451) Model WDS 300K (4610-01-114-1453); Model WDS 800K; (4610-01-114-1450) Model WDS 1,000K (4610-01-114-1452)
TM 5-4610-233-13&P	Operator, Unit and Direct Support Maintenance Manual Including Repair Parts and Special Tools List Water Purification Hypochlorination Unit, Frame-Mounted, Automatically Controlled, 350 GPM, Model 1955-3 (NSN 4610-01-250-3724)
TM 5-4930-230-13	Operator's, Organizational and Direct Support Maintenance Manual Tank and Pump Unit, Liquid Dispensing; for Truck Mounting MIL Design Tank and Pump Units, Gasoline Engine Driven Model (97403)(13217E7100) (NSN 4930-00-426-9960); Electric Motor Driven, Mod (97403) 13217E7130 (4930-01-130-7281)
TM 5-4930-230-23P	Organizational and Direct Support Maintenance Repair Parts and Special Tools List Tank and Pump Unit, Liquid Dispensing; for Truck Mounting MIL Design Tank and Pump Units, Gasoline Engine Driven Model (97403)(13217E7100) (NSN 4930-00-426-9960); Electric Motor Driven, Mod (97403) 13217E7130 (4930-01-130-7281)
TM 5-5430-213-13&P	Operator, Unit, and Direct Support Maintenance Manual, Tank, 3,000 Gallon Fabric, Collapsible, Potable Water, Semi-Trailer Mounted, NSN: 5430-01-181-4071, Model No. 3,000 Gallon, NSN: 5430-01-372-6901, Model No. 91093
TM 5-5430-217-13&P	Operator, Unit, Intermediate Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for 50,000 Gallon Capacity Drinking Water Tank, Assembly, Fabric, Collapsible (NSN 5430-01-106-9677)
TM 5-5430-210-12	Operator and Organizational Maintenance Manual, Tank, Fabric, Collapsible, POL, 3,000 Gallon (11,355 Liter) (NSN 5430-00-268-8187), 10,000 Gallon (37,850 Liter) (NSN 5430-00-052-3412), 10,000 Gallon (37,850 Liter) (NSN 5430-00-641-8552), 50,000 Gallon (189, 250 Liter) (NSN 5430-00-182-8181)
TM 5-5430-219-13	Operator's, Unit and Intermediate Direct Support Maintenance Manual 5K BBL Gallon Collapsible Fabric Tank, (NSN 5430-01-160-3528) 50,000-Gallon Collapsible Fabric Tank (5430-00-182-8181) 20,000-Gallon Collapsible Fabric Tank (5430-01-215-7525) (Model BA92-162) 20,000-Gallon Collapsible Fabric Tank (5430-01-359-4943) (Model BA91-140) (5430-01-414-9252) (Model BA91-140A) 10,000-Gallon Collapsible Fabric Tank (5430-01-358-6157) (Model



- BA91-141) (5430-01-414-9251) (Model BA91-141A) 3,000-Gallon Collapsible Fabric Tank (5430-01-433-8528) (Model WTM3KF)
- TM 5-5430-219-23P Unit and Direct Support Maintenance Repair Parts and Special Tools List for Tank Fabric, Collapsible, POL, 3K (NSN 5430-00-268-8187) (Model M52983-03) 10K (5430-00-052-3412) (Model FCE574-81-1-A) 10K (5430-01-358-6157) (Model BA91-141) 10K (5430-01-414-9251) (Model BA91-141A) 10K (Extra Accessories) (5430-00-641-8552) 20K (5430-01-215-7525) (Model BA92-162) 20K (5430-01-359-4943) (Model BA91-140) 20K (5430-01-414-9252) (Model BA91-140A) 50K (5430-00-182-8181) (Model M52983-50) 50K (5430-01-455-5676) (Model PD52983-50) 5K BBL (5430-01-160-3528) (Model PD5430-0001)
- TM 5-5430-226-12 Operator's and Unit Maintenance Manual for 20,000 Gallon Collapsible Fabric Tank, (NSN 5430-01-106-9678 and NSN 5430-01-406-0507) and 50,000 Gallon Collapsible Fabric Tank (NSN 5430-01-406-6323)
- TM 5-6630-218-10 Operator's Manual Aviation Fuel Contaminant Test Kit (NSN 6630-01-008-5524)
- TM 5-805-7 Welding Design, Procedures, and Inspection
- TM 750-244-1-3 Procedures for the Destruction of Aviation Ground Support Equipment (FSC 1700) to Prevent Enemy Use
- TM 750-244-1-2 Procedures for the Destruction of Life Support Equipment to Prevent Enemy Use
- TM 9-2330-267-14&P Operator's, Organizational, Direct Support, and General Support Maintenance Manual, including Repair Parts and Special Tools List for Trailer, Tank, Water: 400 Gallon, 1-1/2 Ton, 2 Wheel, M149 (NSN 2330-00-542-2039), M149A1 (2330-00-832-8801), M149A2 (2330-01-108-7367)
- TM 9-4110-241-13 Operator's, Unit and Direct Support Maintenance Manual for Refrigerator: Panel Type, Prefabricated Assemblies, 600 Cu. Ft. Model TKR-600C (NSN 4110-01-264-2101) 600 Cu. Ft. Model AA600PF (4110-01-166-3579) 1200 Cu. Ft. Model AA1200PFA (4110-01-167-5320) 4000 Cu. Ft. Model AA4000PF (4110-01-166-3580) 4000 Cu. Ft. Model TKR-4000 C (4110-01-315-9329)
- TM 9-4110-241-23P Unit and Direct Support Maintenance Repair Parts and Special Tools List for Refrigerator Panel Type, Prefabricated Assemblies 600 Model MDS 1600N (NSN 4110-01-361-3891) 600 Cu. Ft. Model TKR-600C (NSN 4110-01-264-2101) 600 Cu. Ft. Model AA600PF (4110-01-166-3579) 1200 Cu. Ft. Model AA1200PFA (4110-01-167-5320) 4000 Cu. Ft. Model AA4000PF (4110-01-166-3580) 4000 Cu. Ft. Model TKR-4000 C (4110-01-315-9329)
- TM 9-4110-256-14 Operator's Unit, Direct Support, and General Support Maintenance Manual for Refrigeration Unit, Mechanical, 10K BTU, Electric Model F10000RE (NSN: 4110-01-389-9182)
- TM 9-4110-256-24P Unit, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for Refrigeration Unit, Mechanical, 10K BTU, Electric Model F10000RE, (NSN 4110-01-389-9182)
- TM 9-4120-398-14 Operator, Unit, Direct Support and General Support Maintenance for Air Conditioner 54,000 BTU/HR, 208/230 Volt 3 Phase, Model AH-54 (NSN 4120-01-283-4096)
- TM 9-4120-411-14 Operator, Unit, Direct Support And General Support Maintenance Manual For Field Deployable Environmental Control Unit Model FDECU-2 (NSN 4120-01-449-0459) and Model FDECU-3 (4120-01-449-0459)
- TM 9-4520-258-14 Operator's, Unit, Direct Support and General Support Maintenance Manual Army Space Heater (ASH) Electric Powered, Multi-Fuel, 120,000 BTU, Model H120 (NSN 4520-01-367-2739) 120,000 BTU, Model H120-1, (NSN 4520-01-

	439-1682)
TM 9-4520-258-24P	Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools List Army Space Heater (ASH) Electric Powered, Multi-Fuel, 120,000 BTU, Model H120 (NSN 4520-01-367-2739) and Model H120-1 (4520-01-439-1682)
TM 9-4520-271-14	Operator's, Unit, Direct Support, and General Support Maintenance Manual for Improved Army Space Heater (IASH), Electric Powered, Multi-Fuel, 140,000 BTU, Model H-140, (NSN 4520-01-477-0568)
TM 9-6115-645-10	Operator's Manual Generator Set, Skid Mounted Tactical Quiet, 60kW, 50/60 HZ and 400 Hz, MEP-806A (50/60 HZ), (NSN 6115-01-274-7390) MEP-816A (400 HZ), (6115-01-274-7395)
TM 9-6115-645-24	Unit, Direct Support And General Support Maintenance Manual For Generator Set, Skid Mounted, Tactical Quiet 60kw, 50/60 and 400 Hz MEP-806a (50/60 Hz) (NSN 6115-01-274-7390) MEP-816A (400 Hz) (6115-01-274-7395)
TM 9-6115-663-13&P	Operator and Field Maintenance Manual (including the Repair Parts and Special Tools List) for: Power Unit Diesel Engine Driven 2 ½-ton Trailer Mounted 60kW 50/60 HZ PU805 (NSN 6115-01-317-2134) Power Unit, Diesel Engine Driven, 2 1/2 Ton Trailer Mounted, 60 KW, 400 HZ, PU-806 (6115-01-317-2133) Power Plant, Diesel Engine Driven, 2 1/2 Ton Trailer Mounted, 60 KW, 50/60 HZ, AN/MJQ-41 (6115-01-303-7896)
TM 9-6115-672-24P	Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools List, Generator Set, Skid Mounted, Tactical Quiet, 60 KW, 50/60 and 400 HZ, MEP-806B (50/60 HZ) (NSN 6115-01-462-0291), MEP-816B (400HZ) (NSN 6115-01-462-0292)
TM 9-6150-226-13	Operator and Field Maintenance Manual for Distribution Illumination Systems, Electrical (DISE) and Power Distribution Illumination Systems, Electrical (PDISE) consisting of Electric Feeder System M200, M200 A/P, (NSN 6150-01-208-9755), (6150-01-308-5672) Electrical Feeder System M100, M100 A/P (6150-01-208-9754), (6150-01-308-5671) Electrical Distribution System M40, M40 A/P (6150-01-208-9753), (6150-01-307-9446) Electrical Distribution System M60, M60 A/P (6150-01-208-9752), (6150-01-307-9445) Electrical Utility Assembly M46 (6150-01-208-9751)
TM 9-6150-226-23P	Unit And Direct Support Maintenance Repair Parts And Special Tools List For Distribution Illumination Systems, Electrical (DISE) And Power Distribution Illumination Systems, Electrical (PDISE) Consisting Of Electrical Feeder System M200, M200 A/P (NSN 6150-01-208-9755), (6150-01-308-5672) Electrical Feeder System M100, M100 A/P (6150-01-208-9754), (6150-01-308-5671) Electrical Distribution System M40, M40 A/P (6150-01-208-9753), (6150-01-307-9446) Electrical Distribution System M60, M60 A/P (6150-01-208-9752), (6150-01-307-9445) Electrical Utility Assembly M46 (6150-01-208-9751)
TM 10-3510-225-13&P	Operator and Unit Maintenance Manual, including Repair Parts and Special Tools List for Force Provider Containerized Batch Laundry, (NSN 3510-01-425-8708 (Green)), (NSN 3510-01-550-1505 (Tan))
TM 10-4320-318-14	Operator's, Unit, Direct Support and General Support Maintenance Manual, Centrifugal Pump Unit, Water, 125 GPM (NSN 4320-01-156-3873) Model No. 2X2 SP/52109
TM 10-4320-325-14	Operator, Unit, Direct Support, and General Support Maintenance Manual for Pump Unit, Centrifugal, Diesel-Driven, Self Priming/125 GPM Water Class III (NSN 4320-01-357-1930)
TM 10-4320-325-24P	Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools List Pump Unit, Centrifugal, Diesel-Driven, Self Priming, 125 GPM Water Class III (NSN 4320-01-357-1930)

- TM 10-4330-232-12&P Operator's and Unit Maintenance Manual (Including Repair Parts and Special Tools List) Filter/Separator: Liquid Fuel, Type I, Frame Mounted, 50 GPM Capacity (Model 011F-Z-001) (NSN 4330-00-250-4381), (Model 59FS50ALV) (4330-00-250-4381) (Model GFS-4-V50AL) (4330-00-250-4381), and Model 13217E7140 (97403) Type II, Non-Frame Mounted 50 GPM Filter/Separator, (4330-01-012-3313)
- TM 10-4510-206-14 Operator, Organizational Direct Support, and General Support Maintenance Manual, Bath Unit, Portable, Automated, Multi-Head Model PBU-100, NSN 4510-01-139-4973 and Model HEI-100, NSN 4510-01-081-0998
- TM 10-4510-208-13&P Operator's, Unit and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) Containerized Shower (NSN: 4510-01-477-7763) Shower, Enclosed Unit System (NSN: 4510-01-470-1398)
- TM 10-4510-209-13&P Operator's, Unit and Direct Support Maintenance Manual Including Repair Parts and Special Tools List (RPSTL) Containerized Latrine (CL) (NSN: 4510-01-453-4012) Containerized Latrine System (CLS) (NSN: 4510-01-477-7764)
- TM 10-4520-259-13&P Operator's, Unit, and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) Heater, Water, Liquid Fuel, M-80 (NSN 4520-01-162-0385) M-85 (NSN 4520-01-237-3719)
- TM 10-4630-206-12&P Operator and Unit Maintenance Manual (Including Repair Parts and Special Tools List Sewage Ejection Pump (SEP) (NSN 4630-01-213-2606) (4630-01-413-2608) (4630-01-505-3746)
- TM 10-4630-207-13&P Operator's, Unit and Direct Support Maintenance Manual including Repair Parts and Special Tools List (RPSTL) for Waste Water Evacuation Tank Trailer (WWET/T) (NSN 4630-01-513-8155)
- TM 10-5411-202-14 Operator's, Organizational, Direct Support and General Support Shelter, Tactical, Non-Expandable 60 AMP Model (NSN 5411-01-136-9837) and 100 AMP Model (5411-01-294-6390)
- TM 10-5419-206-23P Unit and Direct Support Repair Parts and Special Tools List for Force Provider FP Module, Tan: NSN 5419-01-399-6391, FP Module, Green: NSN 5419-01-439-7807, FP (L) Module, Tan: NSN 5419-01-473-2297, FP (L) Module, Green: NSN 5419-01-473-2294, Modification System, Power Generation: 9-1-0640 (81337) Modification System Power Generation (I): 9-1-0641 (81337), Modification System, Cold Weather: NSN 4610-01-423-7427, Modification System, Prime Power: 9-1-0365 (81337)
- TM 10-5430-237-12&P Operator's and Unit Maintenance Manual, including Repair Parts and Special Tools List for Tank, Fabric, Collapsible; Air Column Supported, Open Top, Water Storage, 3,000 Gallons Model 900740 (EIC = ZFV)/Model 91039/Model WT2009 (EIC: ZIZ) (NSN 5430-01-359-4774), (5430-01-318- 9434), (5430-01-170-6984); Tank, Fabric, Collapsible, Self-Supporting, Sealed Top, Water Storage, 3000 Gallons Model GTA-Z60TPW/Model 3-K- W-O-A/Z (5430-01-469-8744) (5430-01-470-7380)
- TM 10-5430-238-12&P Operator and Unit Maintenance Manual (Including Repair Parts and Special Tools List) Tank Fabric Collapsible, Fuel Storage 3,000 Gallon WTM3KF (EIC = ZVM)/MIL-T-52983B (EIC - ZC8); (NSN 5430-01-433-8528), (5430-00-268-8187), 10,000 Gallon, Model BA91-141 (EIC = ZF3)/BA91-141A (EIC = ZVL) FCE574-81-1-A (EIC =) (Extra Accessories)/SC5430-97CLE01 (EIC = ZFN) (5430-01-358-6157), (5430-01-414-9251), (5430-00-052-3412), (5430-00-641-8552), 20,000 Gallon, Model BA91-140 (EIC = ZF2), BA91-140A (EIC =), BA92-162 (EIC = ZFR) (5430-01-359-4943), (5430-01-414-9252), (5430-01-215-7515), 50,000 Gallon, Model PD52983-50 (EIC =), M52983-50, (EIC = ZFB) (5430-01-455-5676), (5430-00-182-8181)
- TM 10-5430-242-12&P Operator and Unit Maintenance Manual (Including Repair Parts and Special Tools List), Tank, Fabric, Collapsible, Fuel Storage, 3,000 Gallon, Model GTA-

- 3KF/RCF-3-K-F-0B/MPC-F-03K-13114 (NSN 5430-01-485-8340 / NSN 5430-01-486-8209 / NSN 5430-01-487-0635), 10,000 Gallon, Model GTA-10KF/RCF-10-K-F-OB/MPC-F-10K-22175 (NSN 5430-01-486-0221 / NSN 5430-01-485-8336 / NSN 5430-01-487-0632), 20,000 Gallon, Model GTA-20KF/RCF-20-K-F-OB/MPC-F-20K-22276 (NSN 5430-01-485-8338 / NSN 5430-01-486-1034 / NSN 5430-01-487-0634), 50,000 Gallon, Model GTA-50KF/RCF-50-K-F-OB/MPC-F-50K-22636 (NSN 5430-01-485-8337 / NSN 5430-01-485-8342 / NSN 5430-01-487-0638)
- TM 10-6630-246-12&P Operator's and Unit Maintenance Manual Including Repair Parts and Special Tools List for Water Quality Analysis Set: Purification Model WQAS-1 (NSN 6630-01-365-5588)
- TM 10-7310-282-10 Operator's Manual for Force Provider Food Service Equipment Cabinet, Food Warming: (NSN 7310-01-229-2155) Dispenser, Beverage, Mechanically Cooled: (7310-01-386-5951) Dispenser, Beverage, Mechanically Cooled: (7310-01-428-4082) Dispenser, Beverage, Mechanically Cooled: (7310-01-504-4061) Griddle, Large: (7310-01-034-6041) Ice Making Machine, Cube: (4110-00-837-6442) Kettle, Steam: (7310-01-364-6312) Kettle, Steam: (7310-01-374-8676) Meat Slicing Machine: (7320-01-097-3163) Meat Slicing Machine: (7320-01-454-0871) Mixing Machine, Food, Electric: (7320-00-205-2776) Oven, Baking & Roasting: (7310-01-420-6851) Oven, Baking & Roasting: (7310-01-420-7103) Pan, Frying And Braising, Electric: (7310-00-758-8564) Popcorn Machine: (7310-01-302-1173) Refrigerator, 20 Cubic Foot: (4110-01-412-3996) Refrigerator, 2 Section: (4110-01-412-8896) Refrigerator, 3 Section: (4110-01-471-3543) Steam Kettle, Tabletop: (7310-01-374-9972) Steam Table: (7310-00-205-1557) Toaster, Electric: (7310-01-287-5313) Toaster, Electric: (7310-01-382-3014) Toaster, Electric: (7310-01-391-2051) Urn, Coffee, Single: (7310-01-374-5832)
- TM 10-7310-282-23&P Unit and Direct Support Maintenance Manual Including Repair Parts and Special Tools List for Force Provider Food Service Equipment
- TM 10-7360-211-13&P Operator's, Unit, and Direct Support Maintenance Manual, including Repair Parts and Special Tools List for Food Sanitation Center (FSC) MODEL FSC-90 (NSN 7360-01-277-2558) MODEL FSC-2 (7360-01-496-2112)
- TM 10-8110-201-10-HR Hand Receipt Covering Contents Of Components Of End Item (COEI), Basic Issue Items (BII), And Additional Authorization List (AAL) For Drums Fabric Collapsible Non-Vented; 500 Gallon Liquid Fuel (Model 4C-135-03562) (NSN 8110-00-753-4892); 500 Gallon Liquid Fuel,
- TM 10-8110-201-14&P Operator's, Organizational, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List) for Drums Fabric Collapsible Non-Vented; 500 Gallon, Liquid Fuel, Part No. 13216E9172 (NSN 8110-00-753-4892); 500 Gallon, Liquid Fuel, Part No. 13216E9170 (NSN 8110-00-824-1444); 250 Gallon, Potable Water, Part No. 5-13-1681-1 (NSN 8110-00-900-8328), 55 Gallon, Potable Water, 5-13-206-1 (NSN 8110-00-089-4504)
- TM 10-8340-224-13 Unit, and Direct Support Maintenance Manual, Repair Parts and Special Tools List for Tent, Extendable, Modular, Personnel (TEMPER) Type I, 64 X 20 Surgical Work, Green, (NSN 8340-01-185-2616) Type II, 64 X 20 Medical, Green, (8340-01-185-2617) Type III, 48 X 20 Utility, Green, (8340-01-185-2615) Type IV, 32 X 20 Personnel, Green, (8340-01-196-6272) Type V, 16 X 20 Medical, Green, (8340-01-185-2614) Type VI, 16 X 20 Central Med Supply, Green, (8340-01-185-2618) Type VII, 16 X 20 Utility, Green, (8340-01-185-2613) Type VIII, 96 X 20 Medical Ward, Green, (8340-01-257-8468) Type IX, 80 X 20 Medical Surgical, Green, (8340-01-257-8469) Type X, 64 X 20 Medical Support, Green, (8340-01-257-8470) Type XI, 32 X 20 Medical Support, Green, (8340-01-257-8471) Type XII, 16 X 20 CS Support, Green, (8340-01-257-8472) Type XIII, 96 X 20 Medical Ward Trop, Green, (8340-01-257-8473) Type XIV, 32 X 20 Medical Support Trop, Green, (8340-01-257-8474) Type XV, 48 X 20 Kitchen, Green, (8340-01-325-0131) Type XVI, 32 X 20 Sanitation Center,

- Green, (8340-01-324-7971) Type I, 64 X 20 Surgical Work, Tan, (8340-01-212-9468) Type II, 64 X 20 Medical, Tan, (8340-01-212-9469) Type III, 48 X 20 Utility, Tan, (8340-01-212-9470) Type IV, 32 X 20 Personnel, Tan, (8340-01-185-2628) Type V, 16 X 20 Medical, Tan, (8340-01-212-9471) Type VI, 16 X 20 Central Med Supply, Tan, (8340-01-212-9472) Type VII, 16 X 20 Utility, Tan, (8340-01-212-9473) Type VIII, 96 X 20 Medical Ward, Tan, (8340-01-257-8475) Type IX, 80 X 20 Medical Surgical, Tan, (8340-01-257-8476) Type X, 64 X 20 Medical Support, Tan, (8340-01-257-8477) Type XI, 32 X 20 Medical Support, Tan, (8340-01-257-8478) Type XII, 16 X 20 CS Support, Tan, (8340-01-257-8479) Type XIII, 96 X 20 Medical Ward Trop, Tan, (8340-01-258-6482) Type XIV, 32 X 20 Medical Support Trop, Tan (8340-01-257-8480) Type XV, 48 X 20 Kitchen, Tan, (NSN Unassigned) Type XVI, 32 X 20 Sanitation Center, Tan (NSN Unassigned)
- TM 10-8340-224-23P Unit And Direct Support Maintenance Repair Parts And Special Tools List For Tent, Extendable, Modular, Personnel (Temper) Type I, 64 X 20 Surgical Work, Green, (NSN 8340-01-185-2616) Type II, 64 X 20 Medical, Green, (8340-01-185-2617) Type III, 48 X 20 Utility, Green, (8340-01-185-2615) Type IV, 32 X 20 Personnel, Green (8340-01-196-6272) Type V, Medical, Green, (8340-01-185-2614) Type VI, 16 X 20 Central Med Supply, Green, (8340-01-185-2618) Type VII, 16 X 20 Utility, Green, (8340-01-185-2613) Type VIII, 96 X 20 Medical Ward, Green, (8340-01-257-8468) Type IX, 80 X 20 Medical Surgical, Green, (8340-01-257-8469) Type X, 64 X 20 Medical Support, Green, (8340-01-257-8470) Type XI, 32 X 20 Medical Support, Green, (8340-01-257-8471) Type XII, 16 X 20 Cs Support, Green, (8340-01-257-8472) Type XIII, 96 X 20 Medical Ward Trop, Green, (8340-01-257-8473) Type XIV, 32 X 20 Medical Support Trop, Green, (8340-01-257-8474) Type XV, 48 X 20 Kitchen, Green, (8340-01-325-0131) Type XVI, 32 X 20 Sanitation Center, Green, (8340-01-324-7971) Type I, 64 X 20 Surgical Work, Tan (8340-01-212-9468) Type II, 64 X 20 Medical, Tan, (8340-01-212-9469) Type III, 48 X 20 Utility, Tan, (8340-01-212-9470) Type IV, 32 X 20 Personnel, Tan, (8340-01-185-2628) Type V, 16 X 20 Medical, Tan, (8340-01-212-9471) Type VI, 16 X 20 Central, Med Supply, Tan, (8340-01-212-9472) Type VII, 16 X 20 Utility, Tan, (8340-01-212-9473) Type VIII, 96 X 20 Medical Ward, Tan, (8340-01-257-8475) Type IX, 80 X 20 Medical Surgical, Tan, (8340-01-257-8476) Type X, 64 X 20 Medical Support, Tan, (8340-01-257-8477) Type XI, 32 X 20, Medical Support, Tan, (8340-01-257-8478) Type XII, 16 X 20 Cs Support, Tan, (8340-01-257-8479) Type XIII, 96 X 20 Medical Ward Trop, Tan, (8340-01-258-6482) Type XIV, 32 X 20 Medical Support Trop, Tan, (8340-01-257-8480) Type XV, 48 X 20 Kitchen, Tan, (Unassigned) Type XVI, 32 X 20 Sanitation Center, Tan, (Unassigned)
- TM 55-8115-204-23&P Unit and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) General Cargo Container (NSN 8115-01-241-7524)
- TM 55-8145-203-13&P Operator's, Unit and Direct Support Maintenance Manual Including Repair Parts and Special Tools List (RPSTL) for TRICON Container, Model ESETC-01, (NSN 8145-01-389-9184) and Model 101 (NSN 8145-01-475-9570)

### NOTE

TM 9-4120-398-14 and TM 9-4120-411-14 do not cover all currently fielded ECU Models with Force Provider. However, it covers earlier fielded models and may be applicable to future models. Use operating and maintenance procedures contained in this manual for ECUs not covered by TM 9-4120-398-14 or TM 9-4120-411-14.

### DA PAMPHLETS

- PAM 611-21 Military Occupational Classification and Structure  
 PAM 750-8 Functional Users Manual for the Army Maintenance Management System

**MISCELLANEOUS PUBLICATIONS**

AAFES 8-4	Army and Air Force Exchange System Policy 8-4
AWS D1.1/D1.1M:2006	Structural Welding Code - Steel
AWS C3.4M/ C3.4:2007	American Welding Society Specification for Torch Brazing C3.4
CTA 50-909	Field and Garrison Furnishings and Equipment
LO 9-6115-645-12	Generator Set, Skid Mounted, Tactical Quiet, 60kW, 50/60 Hz and 400 Hz, MEP 806A Tactical Quiet 50/60 Hz, (NSN 6115-01-274-7390) MEP 816, Tactical Quiet, 400 Hz (6115-01-274-7395)
LO 9-6115-672-12	Generator Set, Skid Mounted, Tactical Quiet, 60kw, 50/60 Hz and 400 Hz, 50/60 Hz MEP 806B (NSN 6115-01-462-0291), 400 Hz, MEP 816B (6115-01-462-0292)
MIL-DTL-53030	Detail Specification, Primer Coating, Epoxy, Water Reducible, Lead and Chromate Free
MIL-DTL-53039	Detail Specification Coating, Aliphatic Polyurethane, Single Component, Chemical Agent Resistant
MIL-HDBK-138B	Guide to Container Inspection for Commercial and Military Inter-Modal Containers
MIL-STD-171	Finishing of Metal and Wood Surfaces
SC 9999-01-SKO	Department of the Army Supply Catalog
TB MED 577	Sanitary Control and Surveillance of Field Water Supplies

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**OPERATOR AND FIELD MAINTENANCE**

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**MAINTENANCE ALLOCATION CHART (MAC) INTRODUCTION**

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**MAINTENANCE ALLOCATION CHART (MAC)****INTRODUCTION****The Army Maintenance System MAC**

This introduction provides a general explanation of all maintenance and repair functions authorized at various maintenance levels under the Standard Army Maintenance System concept.

The MAC (immediately following the introduction) designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component shall be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Unit – includes two subcolumns, C (operator/crew) and O (unit) maintenance.

Direct Support – includes an F subcolumn.

General Support – includes an H subcolumn.

Depot – includes a D subcolumn.

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.

The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

**Maintenance Functions**

Maintenance functions are limited to and defined as follows:

1. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel). This includes scheduled inspection and gagings and evaluation of cannon tubes.
2. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.
3. Service. Operations required periodically to keep an item in proper operating condition, e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms.
4. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.
5. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

6. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
7. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
8. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance and Recoverability (SMR) code.
9. Repair. The application of maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

### NOTE

The following definitions are applicable to the "repair" maintenance function:

Services - Inspect, test, service, adjust, align, calibrate, and/or replace.

Fault location/troubleshooting - The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (UUT).

Disassembly/assembly - The step-by-step breakdown (taking apart) of a spare/functional group coded item to the level of its least component, that is assigned an SMR code for the level of maintenance under consideration (i.e., identified as maintenance significant).

Actions - Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

10. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
11. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

### Explanation of Columns in the MAC

Column (1) - Group Number. Column (1) lists Functional Group Code (FGC) numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA).

Column (2) - Component/Assembly. Column (2) contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized.



Column (3) - Maintenance Function. Column (3) lists the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions refer to "Maintenance Functions" outlined above).

Column (4) - Maintenance Level. Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time required (expressed as manhours in whole hours or decimals) in the appropriate subcolumn. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function varies at different maintenance levels, appropriate work time figures are to be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

C – Operator or crew maintenance

O – Unit maintenance

F – Direct support maintenance

L – Specialized repair activity (SRA)

H – General support maintenance

D – Depot maintenance

#### **NOTE**

The "L" maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by work time figure in the "H" column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.

Column (5) - Tools and Equipment Reference Code. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE), and special tools, special TMDE, and special support equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.

Column (6) Remarks Code. When applicable, this column contains a letter code, in alphabetic order, which is keyed to the remarks table entries.

#### **Explanation of Columns in the Tools and Test Equipment Requirements**

Column (1) – Tool or Test Equipment Reference Code. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

Column (2) – Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

Column (3) – Nomenclature. Name or identification of the tool or test equipment.

Column (4) – National Stock Number (NSN). The NSN of the tool or test equipment.

Column (5) – Tool Number. The manufacturer's part number, model number, or type number.

**Explanation of Columns in Remarks**

Column (1) – Remarks Code. The code recorded in column (6) of the MAC.

Column (2) – Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC.

OPERATOR, UNIT, AND DIRECT SUPPORT MAINTENANCE

FORCE PROVIDER (FP)  
MAINTENANCE ALLOCATION CHART (MAC)

Table 1. MAC for Force Provider.

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS & EQUIP. REF CODE	(6) REMARKS CODE
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
00	<b>FORCE PROVIDER MODULE</b>								
01	<b>SUBSYSTEM, TRANSPORTATION STORAGE CONTAINER</b>								A
02	<b>SUBSYSTEM, BILLETING</b>	Inspect Replace							
0201	TEMPER								B
0202	DISE/PDISE								C
0203	ECU								D
03	<b>SUBSYSTEM, LAUNDRY</b>	Inspect Replace							
0301	CONTAINERIZED BATCH LAUNDRY (CBL)								E
0302	TEMPER								B
0303	DISE/PDISE								C
0304	ECU								D
0305	SEWAGE EJECTION PUMP								F
0306	TANK, 3000-GALLON								G
04	<b>SUBSYSTEM, LATRINE</b>	Inspect Replace							
0401	CONTAINERIZED LATRINE SYSTEM (CLS)								H
0402	WWET/T								I
0403	DISE/PDISE								C
05	<b>SUBSYSTEM, SHOWER</b>	Inspect Replace							
0501	CONTAINERIZED SHOWER SYSTEM (CSS)								J

Table 1. MAC for Force Provider – Continued.

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS & EQUIP. REF CODE	(6) REMARKS CODE
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
0502	SEWAGE EJECTION PUMP							F	
0503	DISE/PDISE							C	
0504	TEMPER							B	
0505	ECU							D	
06	<b>SUBSYSTEM, WATER DISTRIBUTION</b>	Inspect Repair Replace							
0601	WATER TANK, 20,000-GAL POTABLE (TYPE I)	Inspect Repair Replace	0.1 0.2	0.1 1.0			4 4, 9, 10	K	
0602	ASSEMBLY, PUMP, SHOWER, CONTAINERIZED							J	
0603	TRAILER, WATER TANK, POTABLE, 400-GAL							L	
0604	WATER VALVES, TEES AND HOSES	Inspect Repair Replace	0.1 0.2	0.1 0.2 0.5			4, 6, 11 4, 6, 11		
07	<b>SUBSYSTEM, FUEL STORAGE AND DISTRIBUTION</b>	Inspect Repair Replace							
0701	FORCE PROVIDER) FUEL SYSTEM (FPFS	Inspect Repair Replace		0.2 0.3 1.0	1.5		1, 4 1, 4		
0702	TANK, FUEL, 10K-GAL, FABRIC, COLLAPSIBLE							M	
0703	FUEL DISTRIBUTION KIT EQUIPMENT	Inspect Replace	0.1	0.1 0.5			4, 6, 11		
0704	DISE/PDISE							C	
08	<b>SUBSYSTEM, WASTEWATER COLLECTION</b>	Inspect Repair Replace							
0801	UNIT, PUMP 125-GPM							N	
0802	SEP/SES							F	

Table 1. MAC for Force Provider – Continued.

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS & EQUIP. REF CODE	(6) REMARKS CODE
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
0803	TANK, 20K-GAL POTABLE WATER								K
0804	VALVES, TEES, PIPES, HOSES, TRASH PUMP	Inspect Service Repair Replace	0.1 0.3 0.2	0.1  0.5 1.0				5, 8, 12 5, 8, 12	
09	<b>SUBSYSTEM, FOOD SERVICE</b>	Inspect Service Repair Replace							
0901	TEMPER								B
0902	DISE/PDISE								C
0903	ECU								D
0904	FSC								O
0905	REFRIGERATOR, 600- FT <sup>2</sup> , PREFABRICATED								P
0906	REFRIGERATOR MECHANICAL 10K- BTU								Q
0907	HEATER, WATER, M80								R
0908	WATER SYSTEM FOOD SERVICE	Inspect Replace		0.3 1.0				2, 4, 5, 12 4	
0909	TRAP, GREASE	Inspect Service Repair		0.3 1.0				2, 4, 5, 12 4	
0910	SEWAGE EJECTION PUMP	Inspect Service		0.1 0.2				4, 5	F
0911	COFFEE MACHINE	Inspect Service		0.1 0.2					
10	<b>SUBSYSTEM, SITE PREPARATION AND MAINTENANCE</b>	Inspect Replace	0.1	0.1 0.3					
11	<b>SUBSYSTEM, ADMINISTRATION</b>								
1101	TEMPER								B
1102	DISE/PDISE								C

Table 1. MAC for Force Provider – Continued.

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS & EQUIP. REF CODE	(6) REMARKS CODE
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
1103	ECU	Inspect Repair Replace	0.1	0.3 1.0 1.0				3, 4 3, 4	D
110301	REFRIGERATION SYSTEM	Inspect Test Service Repair Replace	0.1 0.2	0.1 0.5 0.2 1.0 1.0				7 7 7 7	
110302	ELECTRICAL SYSTEM	Inspect Test Adjust		0.2 0.3 0.3				1, 3, 4 1, 3, 4	
1104	SYSTEM SUPPORT PACKAGES	Inspect Replace	0.5	0.5					
12	<b>SUBSYSTEM, MORALE, WELFARE, AND RECREATION (MWR)</b>								
1201	TEMPER								B
1202	DISE/PDISE								C
1203	ECU								D
13	<b>SUBSYSTEM, FLOODLIGHT</b>								
1301	LIGHT, PORTABLE, WITH TRIPOD STAND MODEL, PUL-2000Q-TA MODEL, PUL-1000Q-TB	Inspect Repair Replace	0.1 0.2	0.1 0.2 0.3					
14	<b>MODIFICATION SYSTEM, POWER GENERATION</b>								
1401	GENERATOR, TACTICAL, QUIET, 60-KW								S
1402	500-GAL DRUM, FABRIC, OLLAPSIBLE NON- VENTED								T
1403	SWITCH BOX ASSEMBLY								U
15	<b>MODIFICATION SYSTEM, PRIME POWER</b>	Inspect Service Repair Replace							
1501	TRANSFORMER, 150KVA, 208/120V WYE	Inspect Service Repair			1.0 1.0 2.0				

Table 1. MAC for Force Provider – Continued.

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS & EQUIP. REF CODE	(6) REMARKS CODE
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
16	<b>MODIFICATION SYSTEM, COLD WEATHER</b>	Replace			1.0				
1601	COLD WEATHER KIT SITE PREPARATION EQUIPMENT	Inspect Replace		0.2 0.5					
1602	HOSE, HEAT TRACE 1 ¼", 1 ½", AND 2 ½"	Inspect Repair Replace	0.1 0.2	0.1 0.2 0.5			4 4		
1603	ADAPTER KIT, TRICON	Inspect Replace		0.1 0.5			4		
1604	ASH								V
1605	TEMPER								B

Table 2. Tools and Test Equipment for Force Provider.

(1) TOOL OR TEST EQUIPMENT	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE	(4) NATIONAL STOCK NUMBER	(5) TOOL NUMBER
1	O	Multimeter, Digital Facsimile: AN/PSM 45	6625-01-265-6000	
2	O	Screwdriver, Flat Tip 10-in	5120-00-227-7334	
3	O	Tool Kit, Carpenter's	5180-00-293-2875	
4	O	Tool Kit, Electrical Equipment, TK-101/GSQ	5180-00-064-5178	
5	C, O	Tool Kit, General Mech. Automotive	5180-00-177-7033	
6	O	Tool Kit, Pipefitter's 1/8-in to 2-in Pipe	5180-00-596-1501	
7	O	Tool Kit, Plumber's	5180-00-545-8647	
8	O	Tool Kit, Service, Refrigeration Unit	5180-00-596-1474	
9	O	Torque Wrench, 0-30 foot-pound, socket drive		

**Table 2. Tools and Test Equipment for Force Provider - Continued.**

(1) TOOL OR TEST EQUIPMENT	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE	(4) NATIONAL STOCK NUMBER	(5) TOOL NUMBER
10	O	Torque Wrench, 0-50 foot-pound, socket drive		
11	O	Torque Wrench, 0-50 Inch-pound, socket drive	5120-00-684-0404	
12	O	Wrench <sup>9</sup> / <sub>16</sub> -in, Box, Open Ended, Combination	5120-00-228-9507	
13	O	Wrench, Pipe	5120-00-277-1462	

**Table 3. Remarks for Force Provider.**

REMARKS CODE	REMARKS
A	Refer to TM 55-8145-203-13&P, Operator's, Unit and Direct Support Maintenance Manual Including Repair Parts and Special Tools List (RPSTL) for TRICON Container, Model ESETC-01, NSN 8145-01-389-9184 and Model 101 NSN 8145-01-475-9570  Refer to MIL-HDBK-138B Guide to Container Inspection For Commercial and Military Inter-modal Containers  Refer to TM 10-5411-202-14, Operator's, Organizational, Direct Support and General Support Shelter, Tactical, Non-Expandable
B	Refer to TM 10-8340-224-13, Operator, Unit, and Direct Support Maintenance Manual for Tent, Extendable, Modular, Personnel (TEMPER)  Refer to TM 10-8340-224-23P, Unit and Direct Support Maintenance Repair Parts and Special Tools List for Tent, Extendable, Modular, Personnel (TEMPER)
C	Refer to TM 9-6150-226-13, Operator, Unit, and Direct Support Maintenance Manual for Distribution Illumination Systems, Electrical (DISE) and Power Distribution Illumination Systems, Electrical (PDISE)  Refer to TM 9-6150-226-23P, Unit and Direct Support Maintenance Repair Parts and Special Tools List for Distribution Illumination Systems, Electrical (DISE) and Power Distribution Illumination Systems, Electrical (PDISE)
D	<b>NOTE</b>  TM 9-4120-398-14 and TM 9-4120-411-14 do not cover all currently fielded ECU Models with Force Provider. However, they cover earlier fielded models and may be applicable to future models. Use maintenance procedures contained in this manual for ECUs not covered by TM 9-4120-398-14 and TM 9-4120-411-14.  Refer to TM 9-4120-398-14, Operator, Unit, and Direct Support Maintenance Manual for Air Conditioner 54,000 BTU/HR, 208/230 Volt 3 Phase, 50/60 Hertz Model AH-54  Refer to TM 9-4120-411-14, Operator, Unit, Direct Support and General Support Maintenance Manual for Field Deployable Environmental Control Unit Models FDECU-2, FDECU-3, and FDECU-4 (NSN 4120-01-449-459)
E	Refer to TM 10-3510-225-13&P, Operator's, Unit, and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Containerized Batch Laundry (CBL)
F	Refer to TM 10-4630-206-12&P, Operator, Unit, and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Sewage Ejection Pump
G	Refer to TM 10-5430-237-12&P, Operator's, and Unit Maintenance Manual (Including Repair Parts and Special Tools List) Tank Fabric, Collapsible, Self Supporting, Sealed Top, Water Storage, 3,000 Gallons Model GTA-Z60TPW/Model 3-K-W-O-A/Z (NSN 5430-01-469-8744/(NSN 5430-01-470-7380)
H	Refer to TM 10-4510-209-13&P, Operator's, Unit, and Direct Support Maintenance Manual Including Repair Parts and Special Tools List (RPSTL) for Containerized Latrine (CL), and Containerized Latrine System (CLS)
I	Refer to TM 10-4630-207-13&P, Operator, Unit, and Direct Support Maintenance Manual Including Repair Parts and Special Tools List (RPSTL) for Waste Water Evacuation Tank Trailer (WWET/T)



Table 3. Remarks for Force Provider – Continued.

REMARKS CODE	REMARKS
J	Refer to TM 10-4510-208-13&P, Operator's, Unit, and Direct Support Maintenance Manual Including Repair Parts and Special Tools List (RPSTL) for Containerized Shower and Shower, Enclosed Unit, System
K	Refer to TM 5-5430-219-13, Operator's, Unit, and Intermediate Direct Support Maintenance Manual 5KBBLCOLLAPSIBLEFABRICTANK, NSN 5430-01-160-3528, 50,000 Gallon Collapsible Fabric Tank, NSN 5430-01-455-5676, NSN 5430-00-182-8181, 20,000 Gallon Collapsible Fabric Tank, NSN 5430-01-215-7525 (Model BA92-1 62), 20,000 Gallon Collapsible Fabric Tank NSN 5430-01359-4943 (Model BA91-140) NSN 5430-01-414-9252 (Model BA91-140A), 10,000 Gallon Collapsible Fabric Tank, NSN 5430-01-358-6157 (Model BA91-141), NSN 5430-01-414-9251 (Model 141A), 3,000 Gallon Collapsible Fabric Tank NSN 5430-01-433-8528 (Model WTM3KF)
L	Refer to TM 9-2330-267-14&P, Operator's, Organizational, Direct Support, and General Support Maintenance Manual (Including Repair Parts and Special Tools List) for Trailer, Tank, Water, 400 Gallon, 1½ Ton, 2 Wheel
M	Refer to TM 10-5430-242-12&P, Operator and Organizational Maintenance Manual for Tank, Fabric, Collapsible, POL, 3,000, 10,000, and 50,000 Gallon.
N	Refer to TM 10-4320-325-14, Operator, Unit, Direct Support, and General Support Maintenance Manual for Pump Unit, Centrifugal, Diesel Driven, Self-Priming, 125 GPM Water, Class III Refer to TM 10-4320-325-24P, Unit, Direct Support, and General Support Maintenance Repair Parts and Special Tools List (RPSTL) for Pump Unit, Centrifugal, Diesel Driven, Self-Priming, 125 GPM Water, Class III
O	Refer to TM 10-7360-211-13&P, Operator's, Unit, and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Food Sanitation Center (FSC)
P	Refer to TM 5-4110-241-13, Operator, Unit, and Direct Support Maintenance Manual for Refrigerator, Panel Type, Prefabricated Assemblies, 600 Cubic Feet
Q	Refer to TM 9-4110-256-14, Operator's, Unit, Direct Support, and General Support Maintenance Manual for Refrigeration Unit, Mechanical, 10k Btu/hr, Electric, Model F10000RE
R	Refer to TM 10-4520-259-13&P, Operator, Unit, and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Heater, Water, Liquid Fuel, M-80 and M-85
S	Refer to TM 9-6115-645-10, Operator Manual for Generator Set, Skid Mounted, Tactical Quiet, 60 kW, 50/60 and 400 Hz, MEP-806A, MEP-816A Refer to TM 9-6115-645-24, Unit, Direct Support, and General Support Maintenance Manual for Generator Set, Skid Mounted, Tactical Quiet, 60 kW, 50/60 and 400 Hz, MEP-806A, MEP-816A Refer to TM 9-6115-645-24P, Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Generator Set, Tactical Quiet, 60 kW, 50/60 and 400 Hz, MEP-806A, MEP-816A
T	Refer to TM 10-8110-201-14&P, Operator's, Organizational, Direct Support, and General Support Maintenance Manual (Including Repair Parts and Special Tools List) Drum Fabric Collapsible Non-vented, 500 Gallon, Liquid Fuel, 250 Gallon Potable Water, 55 Gallon Potable Water
U	Refer to TM 9-6115-663-13&P Operator, Unit, and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Power Unit Diesel Engine Driven, 2 ½-ton Trailer Mounted, 60 kW, 50/60Hz, PU-805 Power Unit Diesel Engine Driven, 2 ½-ton Trailer Mounted, 60 kW, 50/60Hz, PU-806 Power Unit Diesel Engine Driven, 2 ½-ton Trailer Mounted, 60 kW, 50/60Hz, AN/MJQ-41
V	Refer to TM 9-4520-258-14, Operator's, Unit, Direct Support, and General Support Maintenance Manual for Army Space Heater (ASH) Electric Powered, Multi-Fuel, 120,000 BTU, Model H120 Refer to TM 9-4520-258-24P, Unit, Direct Support, and General Support Maintenance Repair Parts and Special Tools for Army Space Heater (ASH) Electric Powered Multi-Fuel, 120,000 BTU, Model H120 and Model H120-1



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**FORCE PROVIDER  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST INTRODUCTION**


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**INTRODUCTION****Scope**

This work package lists COEI and BII for the Force Provider System to help you inventory items for safe and efficient operation of the equipment.

**General**

The COEI and BII information is divided into the following lists:

**Components of End Item (COEI).** This list is for information purposes only and is not authority to requisition replacements. These items are part of the Force Provider System. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Items of COEI are removed and separately packaged for transportation or shipment only when necessary. Illustrations are furnished to help you find and identify the items.

**Basic Issue Items (BII).** These essential items are required to place the Force Provider System in operation, operate it, and to do emergency repairs. Although shipped separately packaged, BII must be with the Force Provider System during operation and when it is transferred between property accounts. Listing these items is your authority to request/requisition them for replacement based on authorization of the end item by the TOE/MTOE. Illustrations are furnished to help you find and identify the items.

**Explanation of Columns in the COEI List and BII List**

Column (1) - Illus Number. Gives you the number of the item illustrated.

Column (2) - National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (3) - Description, CAGEC, and Part Number. Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The stowage location of COEI and BII is also included in this column. The last line below the description is the CAGEC (commercial and Government entity code) (in parentheses) and the part number.

Column (4) - Usable on Code. When applicable, gives you a code if the item you need is not the same for different models of equipment. *These codes are identified below.*

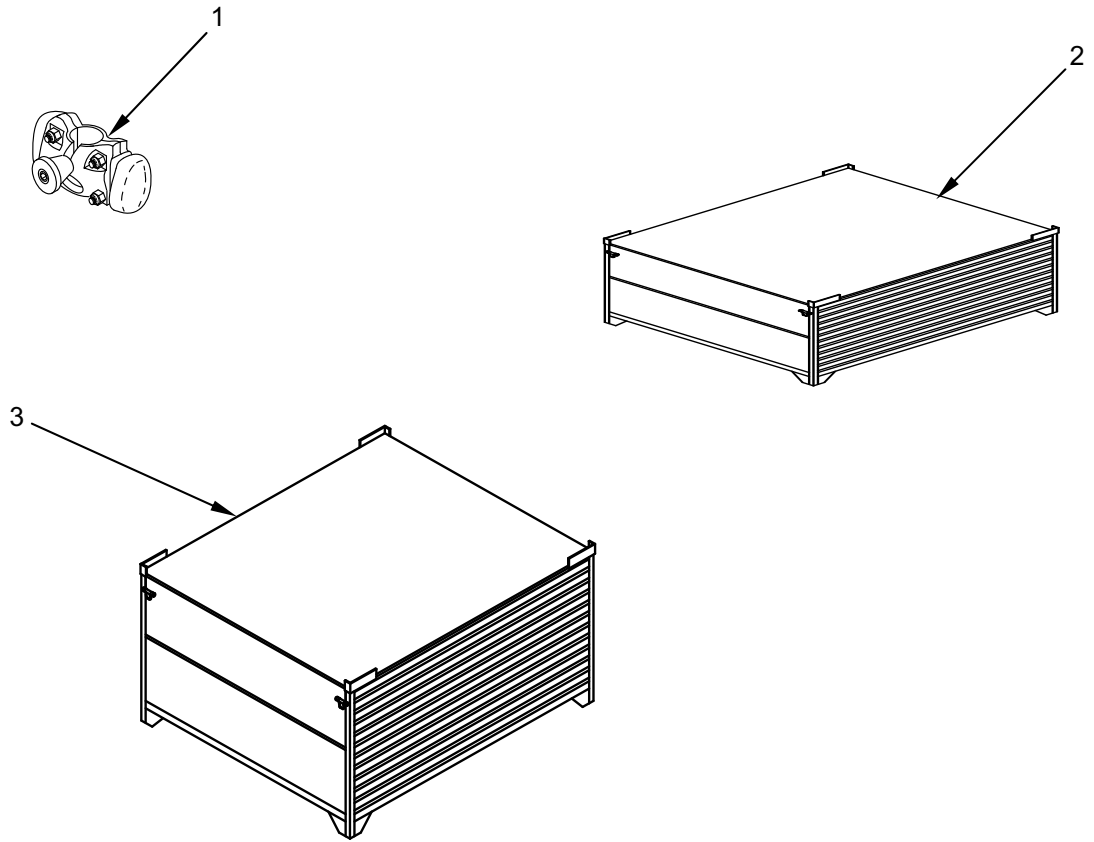
<u>Code</u>	<u>Used on</u>
F5N	Force Provider Module (Green)
F5Q	Force Provider Module (Tan)
F5S	Modification System, Cold Weather
F5R	Modification System, Prime Power
F5U	Modification System, Power Generation

Column (5) - Unit of Measure (U/M). Indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (2).

Column (6) - Qty Rqr. Indicates the quantity required.



**FORCE PROVIDER TRANSPORTATION AND STORAGE CONTAINER SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1		CONNECTOR LINK, 09PDO, 1046		EA	240
2	8145-01-415-7267	CONTAINER, REUSABLE, BULK EQUIPMENT, COMMERCIAL, 81337, 9-1-0141		EA	1
3	8145-01-415-4827	CONTAINER, REUSABLE, BULK EQUIPMENT, HALF SIZE, 81337, 9-1-0140-2		EA	4

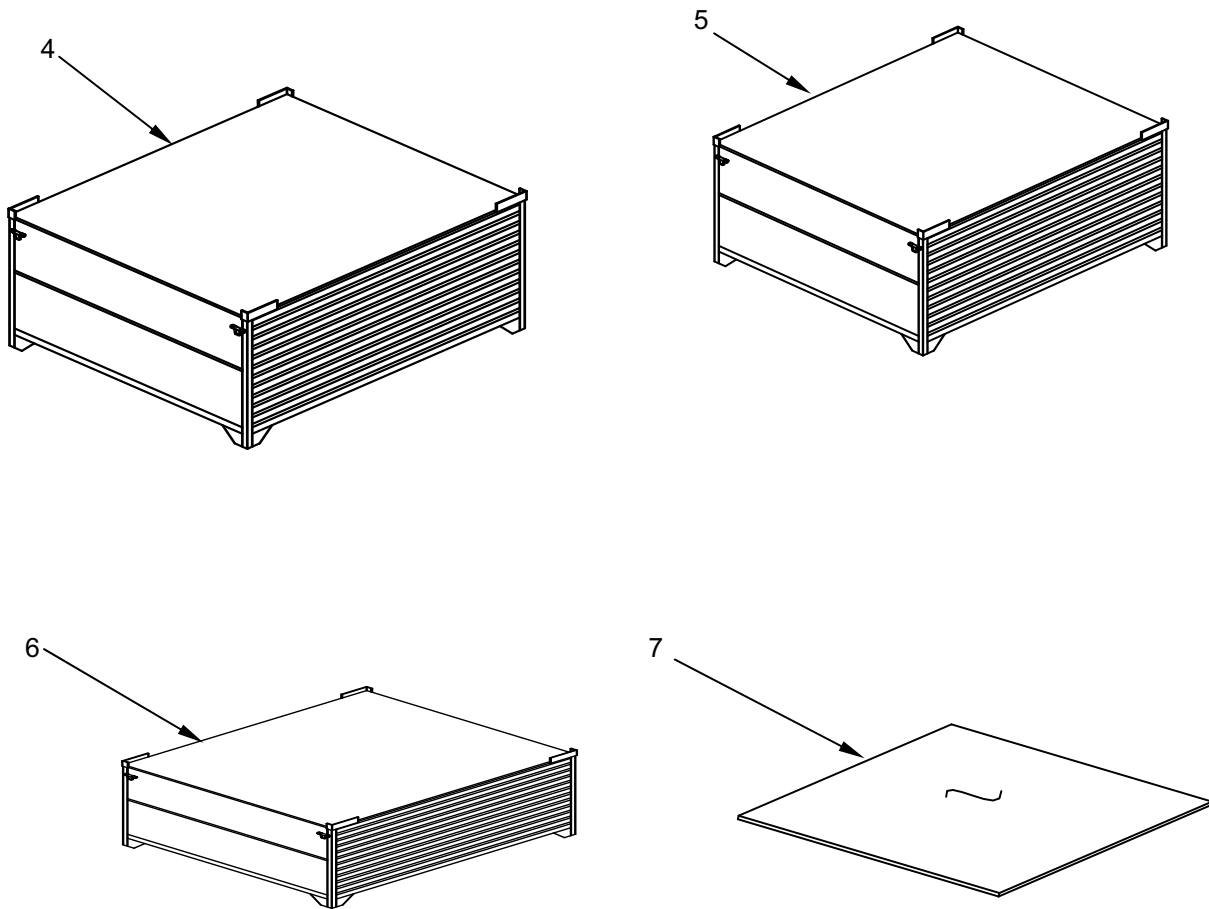
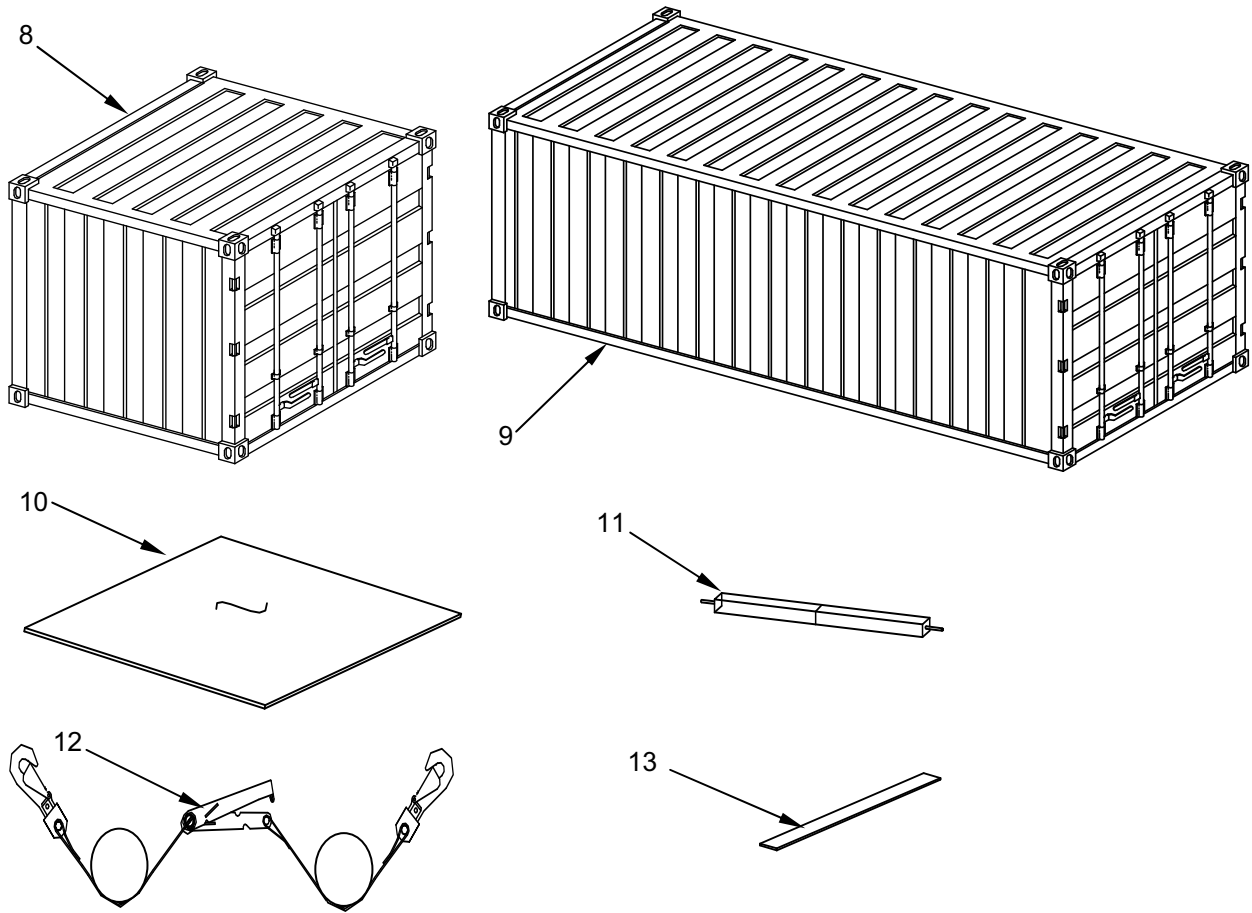


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
4	8145-01-415-4821	CONTAINER, REUSABLE, BULK EQUIPMENT, HALF SIZE, GENERAL PURPOSE, 81337, 9-1-0140-1		EA	2
5	8145-01-415-4116	CONTAINER, REUSABLE, BULK EQUIPMENT, MEDIUM, 81337, 9-1-0142-2		EA	6
6	8145-01-415-4113	CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL, 81337, 9-1-0142-1		EA	9
7		CONTAINER, REUSABLE, COVER, 42 x 69½-inch, 81337, 9-1-0758-1		EA	2
7		CONTAINER, REUSABLE, COVER, 55 x 69½-inch, 81337, 9-1-0758-2		EA	4
7		CONTAINER, REUSABLE, COVER, 35 x 42-inch, 81337, 9-1-0758-3		EA	1
7		CONTAINER, REUSABLE, COVER, 69½- x 84-inch, 81337, 9-1-0758-4		EA	15



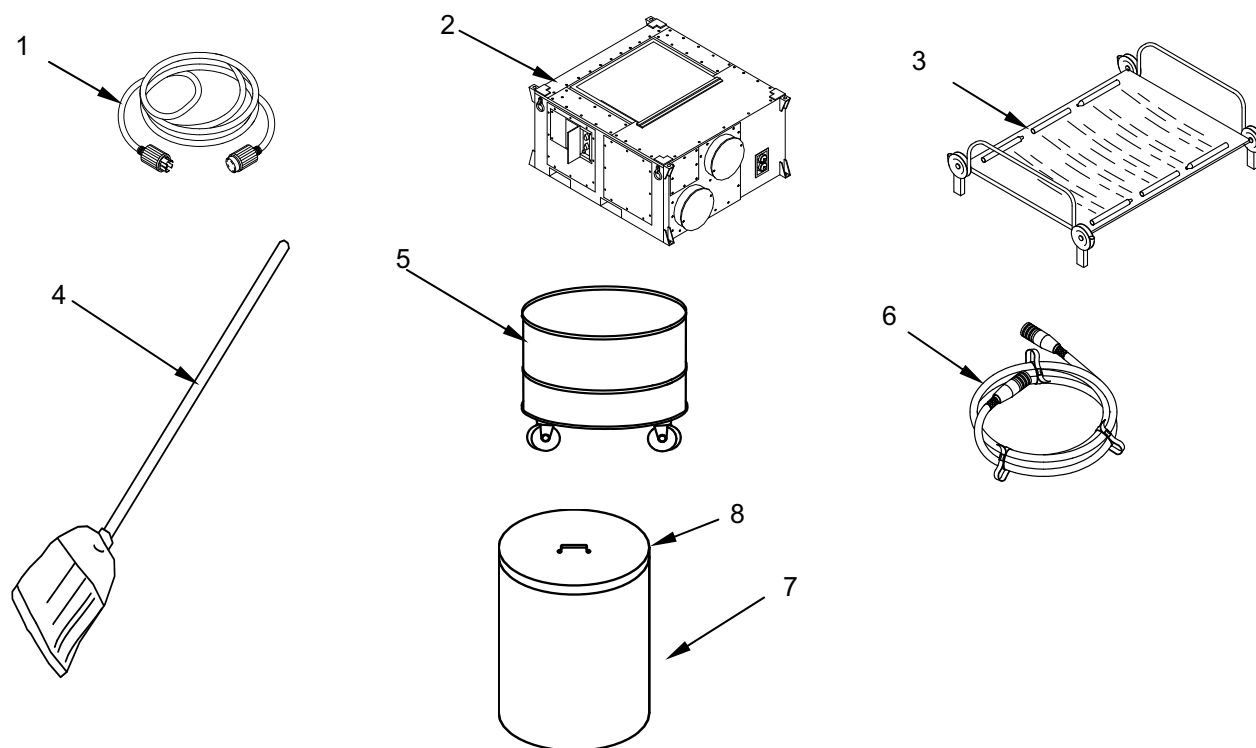
(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
8	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TAN), 09PDO, BXTACTATPD0003	FSQ	EA	80
9	8145-01-488-6545	CONTAINER, SHIPPING, ISO, 20-FOOT (GREEN), 09PDO, A-A-52034A TY I	FSN	EA	3
10	8145-01-503-4404	SHELF, SHIPPING AND STORAGE (TRICON), 09PD1, 1041A		EA	140
11	9540-01-491-3804	SHORING BEAM, (TRICON), 09PD1, FE-8066- 067-078		EA	281
12	3990-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN, 98313, FDC57705		EA	235
13		WOOD BRACE, 2 X 6 X 75- $\frac{3}{4}$ -INCH, 81337, 9-1-0771		EA	134

**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
		No BII items are issued with the Storage and Transportation Subsystem			



**FORCE PROVIDER BILLETING SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	6150-01-187-1782	50 FT EXTENSION CORD (located in TRICON 1B) (55719) EC267 (Part of Floodlight Subsystem)		EA	30
2	4120-01-432-6408 OR MAY RECEIVE 4120-01-413-7835	AIR CONDITIONER (ECU) 54 K BTUH, 208V, 3 PHASE, 50/60 HZ, HORIZONTAL (located in TRICON 1B) (97403) MIL-A-0083216; TA 13230E3500		EA	30
3	7120-01-519-1117	BED, BUNKABLE, DISC-O (located in TRICON 1A, 1C, 1D) (DF810) 19803MF		EA	570
4	7920-00-291-8305	BROOM, UPRIGHT (located in TRICON 1A) (80244) H-B-0051, TYPE 2		EA	30
5	7920-00-926-5243	BUCKET, MOP, STEEL, OVAL, 16 QUART, W/ CASTERS (located in TRICON 1A) (58536) A-A-262		EA	30
6	6150-01-220-5588	CABLE ASSEMBLY, POWER, 60 A, 100 FT (located in TRICON 1A) (81349) M29184/3-02		EA	60
7	7240-00-160-0440	CAN, ASH AND GARBAGE, 32-GAL, STEEL GALVANIZED, TYPE A, SIZE 4		EA	20
8	7260-00-161-1143	CAN, COVER, ASH AND GARBAGE, TYPE B, SIZE 4		EA	20

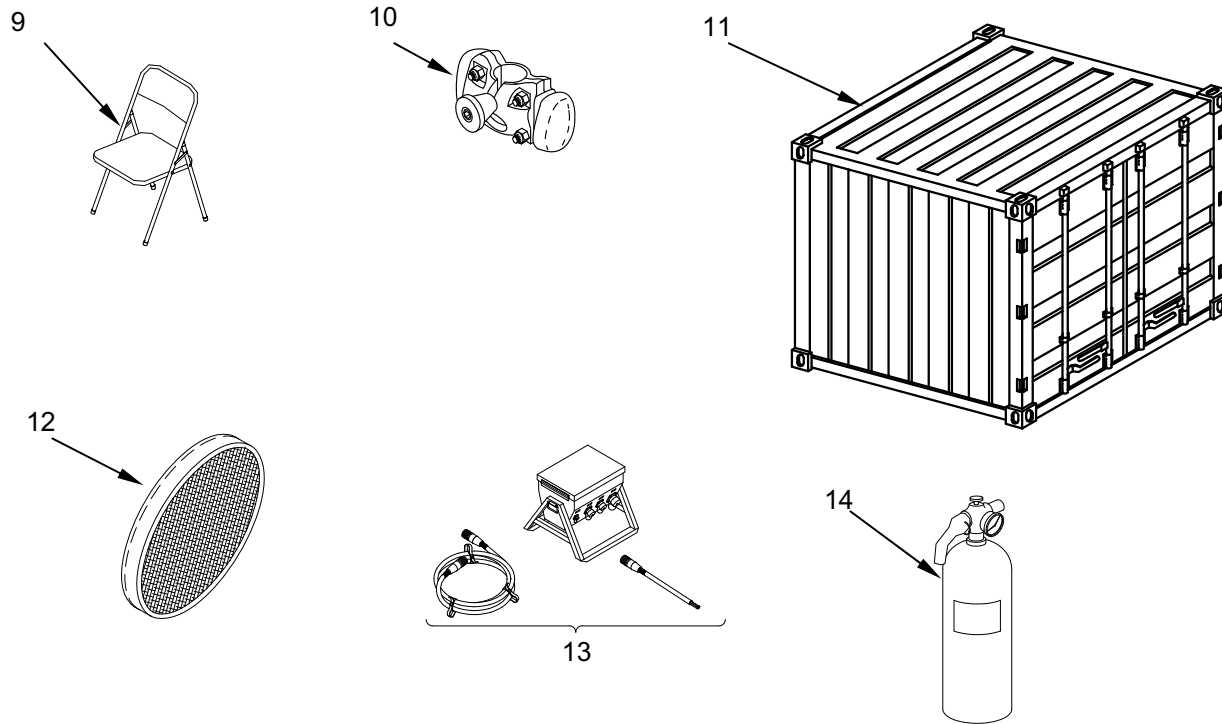


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
9	7105-00-269-8463	CHAIR, FOLDING, STEEL (located in TRICON 1B) (80244) AA-C-291; TYPE 1, CLASS 1		EA	210
10		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 1A, 1B, 1C, 1D) (Part of Transportation and Storage Subsystem)		EA	96
11	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) (TRICON 1A, 1B, 1C, 1D) (09PDO) BXTPCGATPD0003 – Green (Part of Transportation and Storage Subsystem)	FSN	EA	32
11	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) (TRICON 1A, 1B, 1C, 1D) (09PDO) BXTPCTATPD0003 – Tan (Part of Transportation and Storage Subsystem)	FSQ	EA	32
12	4130-01-415-7300	DEBRIS SCREEN, AIR CONDITIONER DUCT ADAPTER (located in TRICON 1B) (81337) 9-1-0146		KT	30
13	6150-01-308-5671	ELECTRICAL FEEDER SYSTEM, PDISE M100 (located in TRICON 1A) (97403) TA13229E6351		EA	15
14	4210-00-889-2491	FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND (located in TRICON 1A) (80244) A-A-393, TYPE 1, CLASS 1, SIZE 10		EA	30

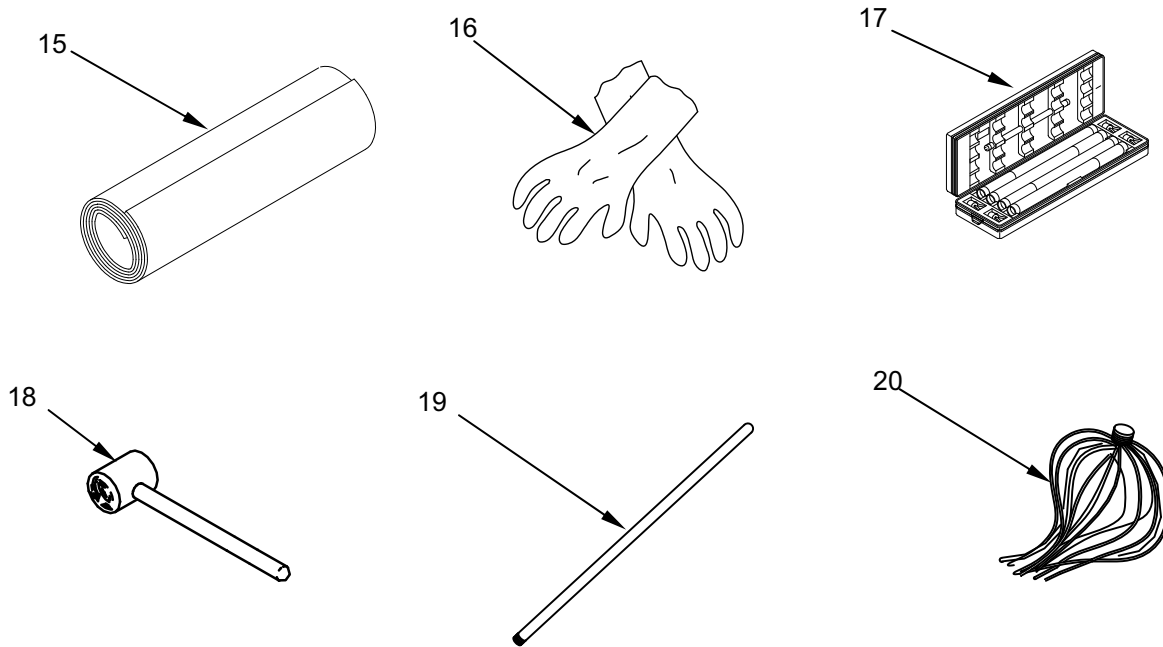


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
15	7220-01-469-3424	FLOOR MAT, ALTERED ITEM (MAKE FROM NSN 7220-00-254-4240, CUT TO 32 FEET) (located in TRICON 1A) (81337) 9-1-0189-1		EA	30
16	8415-00-782-2809	GLOVE INSERTS, COTTON, PR, 81349, MIL-G- 82241 (located in TRICON 1B) (Part of Floodlight Subsystem)		PR	15
17	6230-01-242-2016	LIGHT SET, FLUORESCENT (located in TRICON 1A) (81349) MIL-A-44259		EA	60
18	5120-00-926-7116	MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD (located in TRICON 1A) (80244) LLL-M-71, TYPE IX		EA	15
19	7920-00-267-1218	MOP HANDLE (located in TRICON 1A) (80244) MM-H-101, TYPE 1, CLASS 1, SIZE B		EA	30
20	7520-00-141-5550	MOP HEAD (located in TRICON 1A) (80244) T-M-561, TYPE 1, STYLE 1, CLASS 15		EA	30

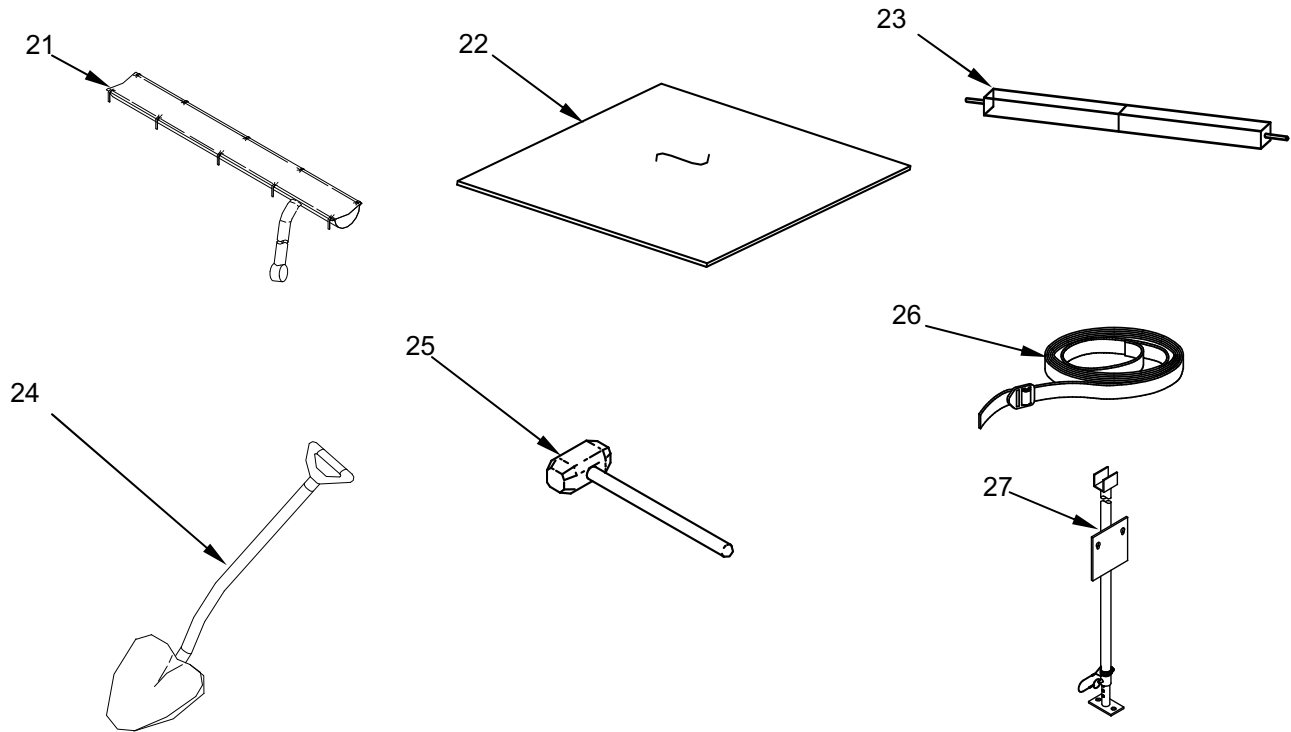


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
21	8340-01-186-3035	PLENUM, END WALL, TEMPER (located in TRICON 1A) (81337) 5-4-3614		EA	30
21	8340-01-186-3035	PLENUM, END WALL, TEMPER (located in TRICON 1A) (81337) 5-4-3614		EA	30
22	8145-01-503-4404	SHELF, SHIPPING AND STORAGE, 09PD1, 1041A, (located in TRICON 1A, 1B, 1C, 1D) (Part of Transportation and Storage Subsystem)		EA	60
23	9540-01-491-3804	SHORING BEAM, 09PD1, 1059, (located in TRICON 1A, 1B, 1C, 1D) (Part of Transportation and Storage Subsystem)		EA	120
24	5120-00-293-3336	SHOVEL, ROUND POINT, D HANDLE (located in TRICON 1A) (80244)		EA	30
25	5120-00-900-6098	GGG-S-326, TYPE IV, CLASS A, STYLE I SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG (located in TRICON 1A) (58536) A-A-1293		EA	15
26	3990-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN (located in TRICON 1A, 1B, 1C, 1D) (98313) FDC5770-5 (Part of Transportation and Storage Subsystem)		EA	64
27	6110-01-242-6691	STAND, DISTRIBUTION BOX, TEMPER, 1A, 1-6-6005 (81337)		EA	30

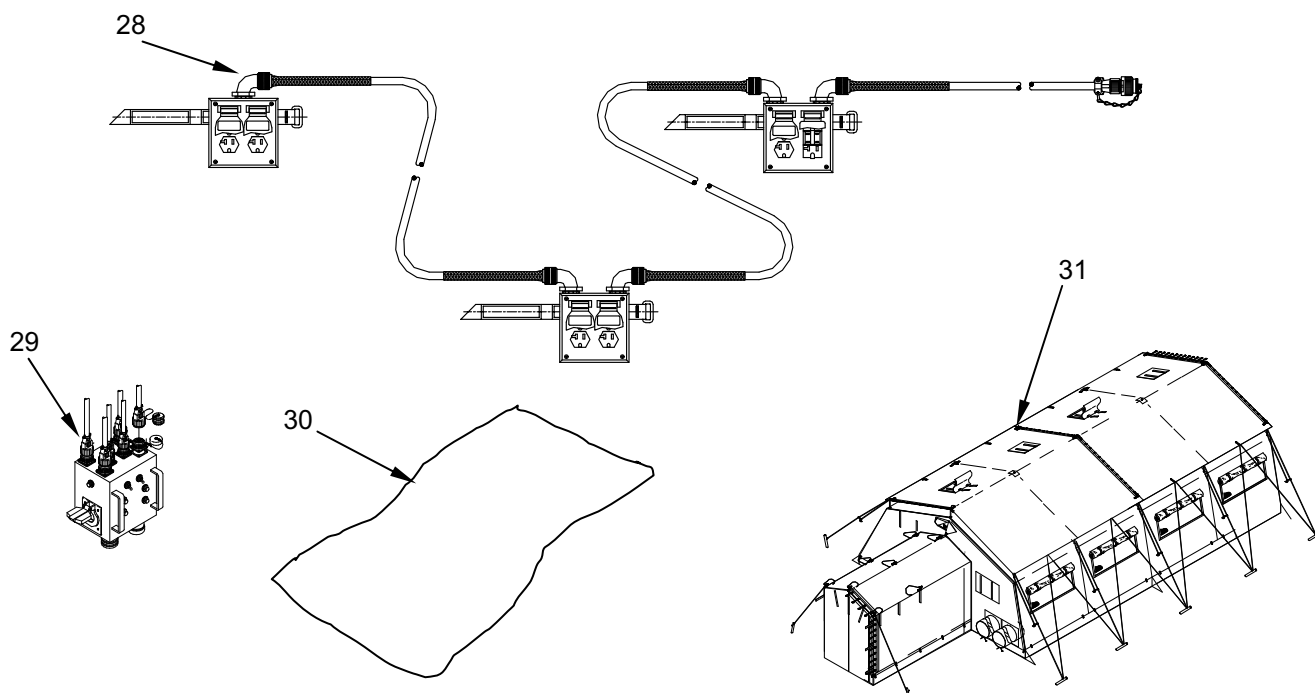
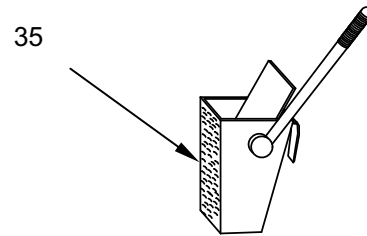
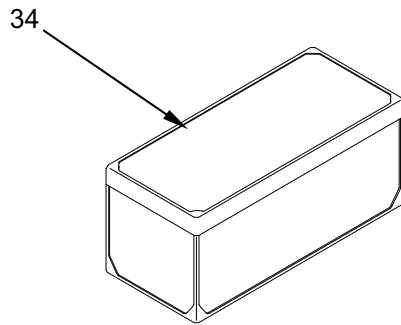
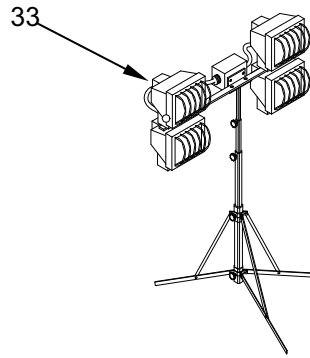


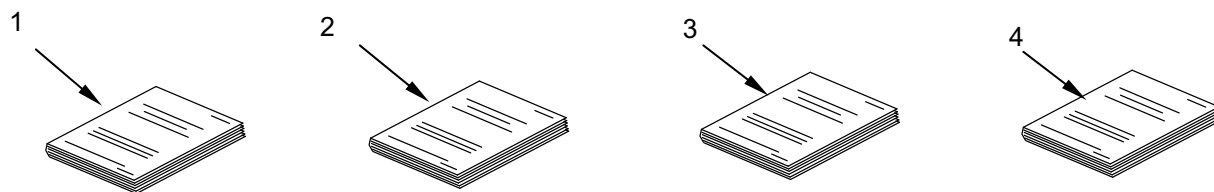
Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
28	6150-01-470-1916	TEMPER CONVENIENCE OUTLET ASSEMBLY, 3 DROP (located in TRICON 1A) (81337) 9-1-0624		EA	60
29	6110-01-251-0402	TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V (located in TRICON 1A) (81337) 1-6-6041		EA	30
30	8340-01-186-3019	TENT COVER, D/T TEMPER (located in TRICON 10L) (81337) 5-4-3359-1	FSN	EA	60
30	8340-01-186-3019	TENT COVER, D/T TEMPER (located in TRICON 10L) (81337) 5-4-3359-2	FSQ	EA	60
31	8340-01-196-6272	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE IV, 32 FT, COLOR-GREEN (located in TRICON 1A) (81349) MIL-T-44271, TYPE-IV	FSN	EA	30
31	8340-01-185-2628	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE IV, 32 FT, COLOR-TAN (located in TRICON 1A) (81349) MIL-T-44271, TYPE-IV	FSQ	EA	30



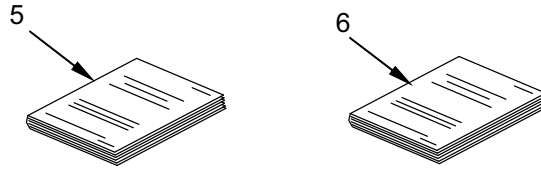
**Table 1. Components of End Item List – Continued.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
32		TRIPOD FLOODLIGHT, 1000W (located in TRICON 1B) (23287) PUL-1000Q-TA (Part of Floodlight Subsystem)		EA	15
33		TRIPOD FLOODLIGHT, 2000W (located in TRICON1B) (23287) PUL-1000Q-TA (Part of Floodlight Subsystem)		EA	15
34	8460-01-471-1024	TRUNK, LOCKER (located in TRICON 1A) (58536) 1B, A-A-59490		EA	660
35	7920-00-682-6861	WRINGER, MOP (located in TRICON 1A) (58536) A-A-261		EA	30



**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (located in TRICON 1A) TM 10-8340-224-13		EA	15
2	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR AIR CONDITIONER 54,000 BTU/HR, 208/230 VOLT 3 PHASE, 50/60 HERTZ MODEL AH-54, TM 9-4120-398-14 (located in TRICON 1B) OR OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FIELD DEPLOYABLE ENVIRONMENTAL CONTROL UNITS MODELS FDECU-2, FDECU-4 AND FDECU-4 9NSN 4120-01-449-459) TM 9-4120-411-14 (located in TRICON 1B)			15
3	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (DISE) AND POWER DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (PDISE) CONSISTING OF ELECTRIC FEEDER SYSTEM M200, M200 A/P, ELECTRICAL FEEDER SYSTEM M100, M100 A/P, ELECTRICAL DISTRIBUTION M40, M40 A/P, ELECTRICAL DISTRIBUTION SYSTEM M60, M60 A/P, ELECTRICAL ASSEMBLY M46 (located in TRICON 1A) TM 9-6150-226-13		EA	15
4	N/A	OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FORCE PROVIDER TM 10-5419-206-13 (located in TRICON 1C)		EA	1

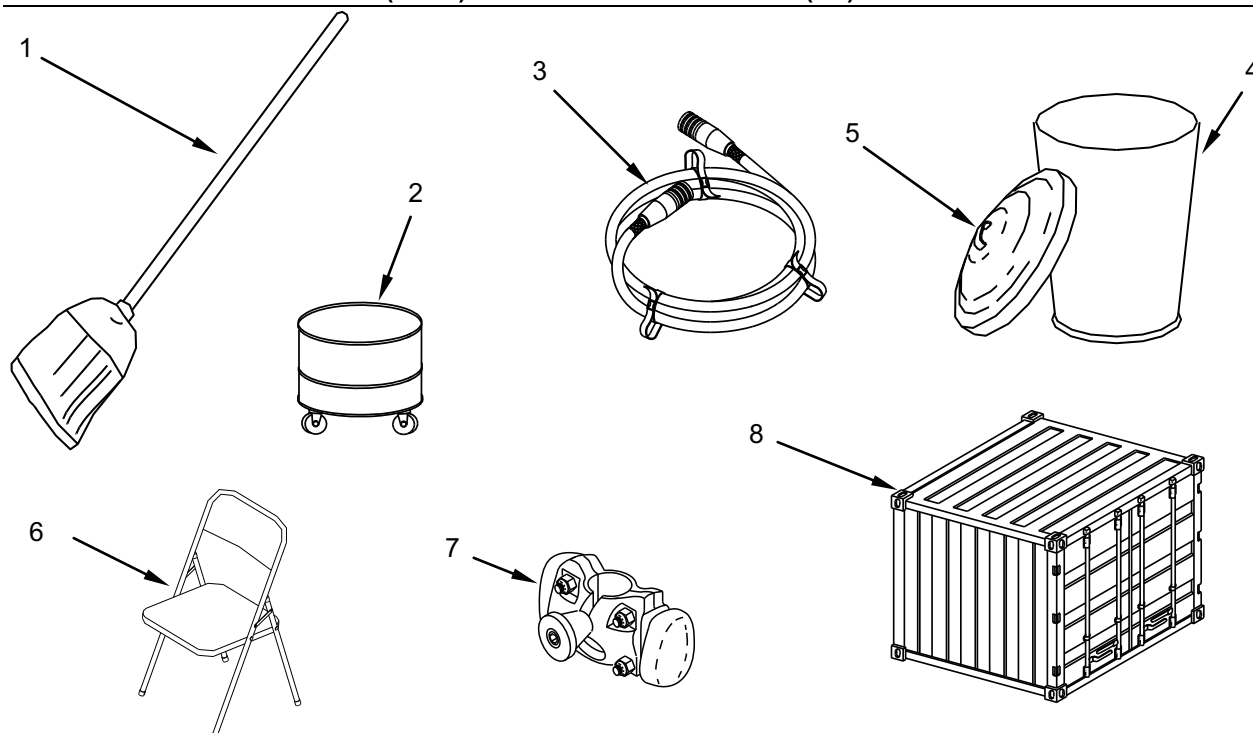


**Table 2. Basic Issue Items List – Continued.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
5	N/A	REPAIR PARTS AND SPECIAL TOOLS LIST FORCE PROVIDER TM 10-5419-206-23P (located in TRICON 1C)		EA	1
6	N/A	UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL, REPAIR PARTS AND SPECIAL TOOLS LIST FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (located in TRICON 1A) TM 10-8340-224-23P		EA	15



**FORCE PROVIDER LAUNDRY SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	7920-00-291-8305	BROOM, UPRIGHT (located in TRICON 2A) (80244) H-B-0051, TYPE 2		EA	1
2	7920-00-926-5243	BUCKET, MOP, STEEL, OVAL, 16 QUART, W/ CASTERS (located in TRICON 2A) (58536) A-A-262		EA	1
3	6150-01-220-5588	CABLE ASSEMBLY, POWER, 60 A, 100 FT (located in TRICON 2A) (81349) M29184/3-02		EA	3
4	7240-00-160-0440	CAN, ASH AND GARBAGE, 32 GAL, STEEL, GALV (located in TRICON 2B) (58536) A-A-1069		EA	3
5	7240-00-161-1143	CAN, COVER, ASH AND GARBAGE (located in TRICON 2B) (58536) A-A-1069		EA	3
6	7105-00-269-8463	CHAIR, FOLDING, STEEL (located in TRICON 2A) (80244) AA-C-291; TYPE 1, CLASS 1		EA	5
7		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 2A, 2B) (Part of Transportation and Storage Subsystem)		EA	6
8	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS (TRICON 2A and 2B) (09PDO) BXTPCGATPD0003 (Part of Transportation and Storage Subsystem)	FSN	EA	2
8	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS (TRICON 2A and 2B) (09PDO) BXPCTATPD0003 (Part of Transportation and Storage Subsystem)	FSQ	EA	2

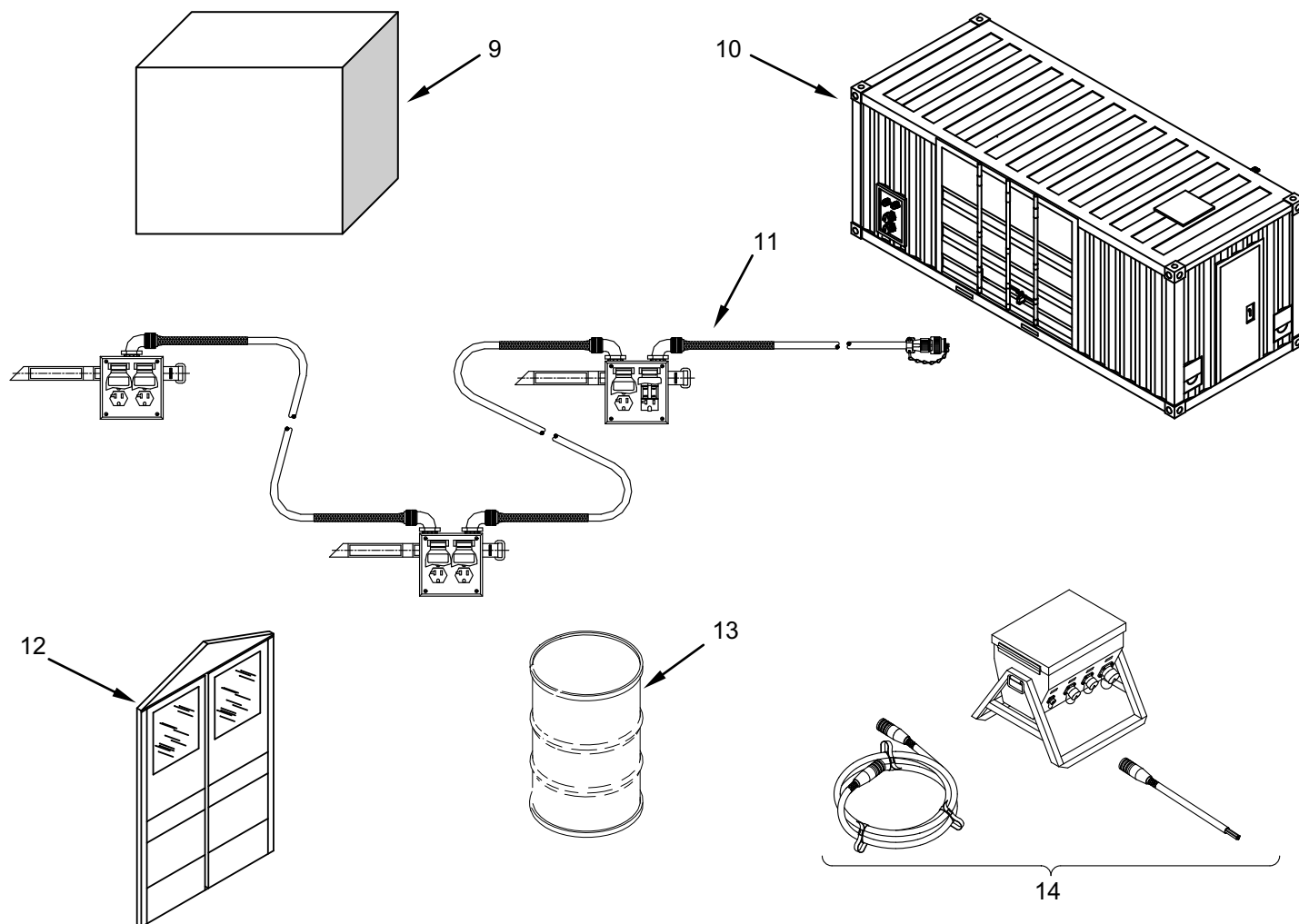


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
9	8340-01-186-3030	CONTAINER, TENT, PIN TEMPER (Located in TRICON 2A) (81337) 5-4-8487-1		EA	4
10	3510-01-425-8708	CONTAINERIZED BATCH LAUNDRY, 2C, (81337) 9-1-0820-1	FSN	EA	1
10	3510-01-425-8708	CONTAINERIZED BATCH LAUNDRY, 2C, (81337) 9-1-0820-2	FSQ	EA	1
11	6150-01-470-1916	CONVENIENCE OUTLET ASSEMBLY, 3 DROP (located in TRICON 2A) (81337) 9-1-0624		EA	2
12	8340-01-263-2546	DOORS, DOUBLE BUMP-THROUGH, GREEN (located in TRICON 2B) (81337) 5-4-4082-2		EA	2
13	8110-00-597-2353	DRUM, SHIPPING AND STORAGE, STEEL, 55 GALLON (located in TRICON 2B) (81348)		EA	1
14	6150-01-308-5671	PPP-D-729, TYPE I, CLASS A ELECTRICAL FEEDER SYSTEM, PDISE M100 (located in TRICON 2A) (97403) TA13229E6351		EA	1

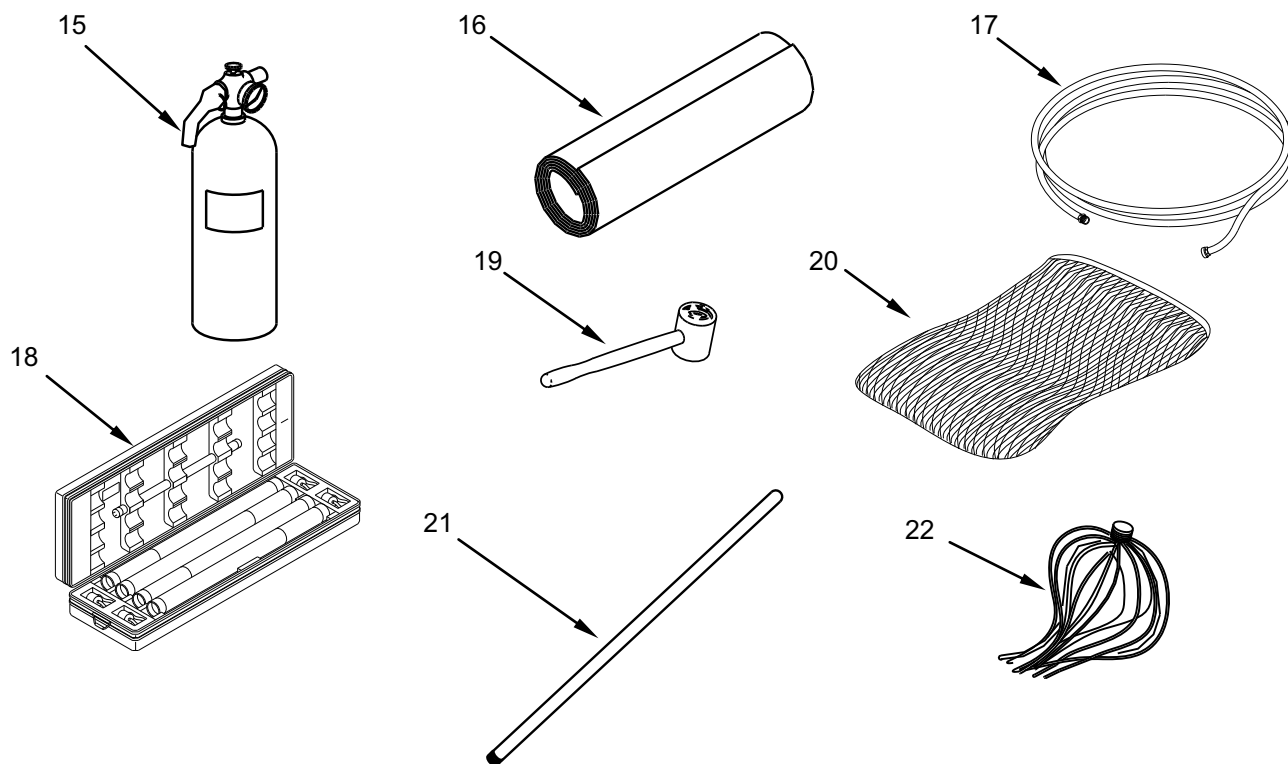


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
15	4210-00-889-2491	FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND (located in TRICON 2A) (80244) A-A-393, TYPE 1, CLASS 1, SIZE 10		EA	1
16	7220-01-469-3424	FLOOR MAT, ALTERED ITEM (MAKE FROM NSN 7220-00-254-4240, CUT TO 32 FT) (located in TRICON 2A) (81337) 9-1-0189-1		EA	2
17	4720-00-729-5334	HOSE ASSEMBLY NON-METALLIC, GARDEN (located in TRICON 2A) (81347) L-H-520		EA	1
18	6230-01-242-2016	LIGHT SET, FLUORESCENT (located in TRICON 2A) (17203) BR 2005		EA	2
19	5120-00-926-7116	MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD (located in TRICON 2A) (80244) LLL-M-71, TYPE IX		EA	1
20	3510-00-841-8384	MESH BAGS (DOZEN) (located in TRICON 2A) (81348) J-J-N-180		EA	20
21	7920-00-267-1218	MOP HANDLE (located in TRICON 2A) (80244) MM-H-101, TYPE 1, CLASS 1, SIZE B		EA	1
22	7520-00-141-5550	MOP HEAD (located in TRICON 1A) (80244) T-M-561, TYPE 1, STYLE 1, CLASS 15		EA	2

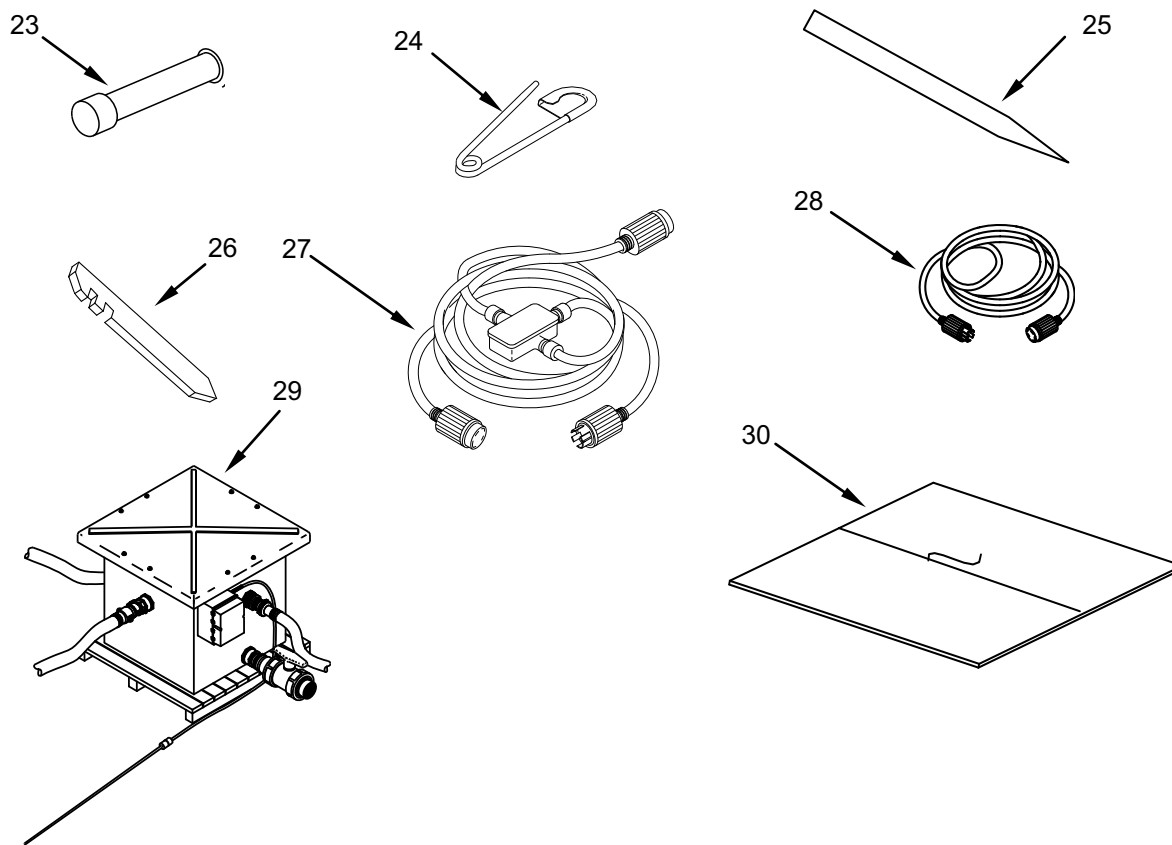


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
23	4730-00-595-1103	NOZZLE, GARDEN HOSE (located in TRICON 2A) (04020) 5100-243		EA	1
24	3510-00-222-1457	PIN, LAUNDRY, 5-INCH, QTY-100 (located in TRICON 2A) (58536) A-A-52127		HD	3
25	8340-00-985-7461	PIN, TENT, STEEL, 18-INCH (Located in TRICON 2A) (81337) 5-A-196		EA	60
26	8340-00-261-9751	PIN, TENT, WOOD, SIZE 2 (24") (located in TRICON 1A) (81349) MIL-P-2383, SIZE 2		EA	30
27	6150-01-214-0135	POWER CABLE ASSY, TEE, 20A (located in TRICON 2B, (81337) 6-1-8222-1		EA	2
28	6150-01-413-2235	POWER CABLE, CLASS L TO COMMERCIAL, 20 A (located in TRICON 2B) (81337) 9-1-0182		EA	1
29	4630-01-505-3746	PUMP, SEWAGE EJECTION, LAUNDRY WITH ACCESSORIES (located in TRICON 2B) (81337) 9-1-0527		EA	1
30	8145-01-503-4404	SHELF, SHIPPING AND STORAGE, 09PD1, 1041A, (located in TRICON 2A, 2B) (Part of Transportation and Storage Subsystem)		EA	4

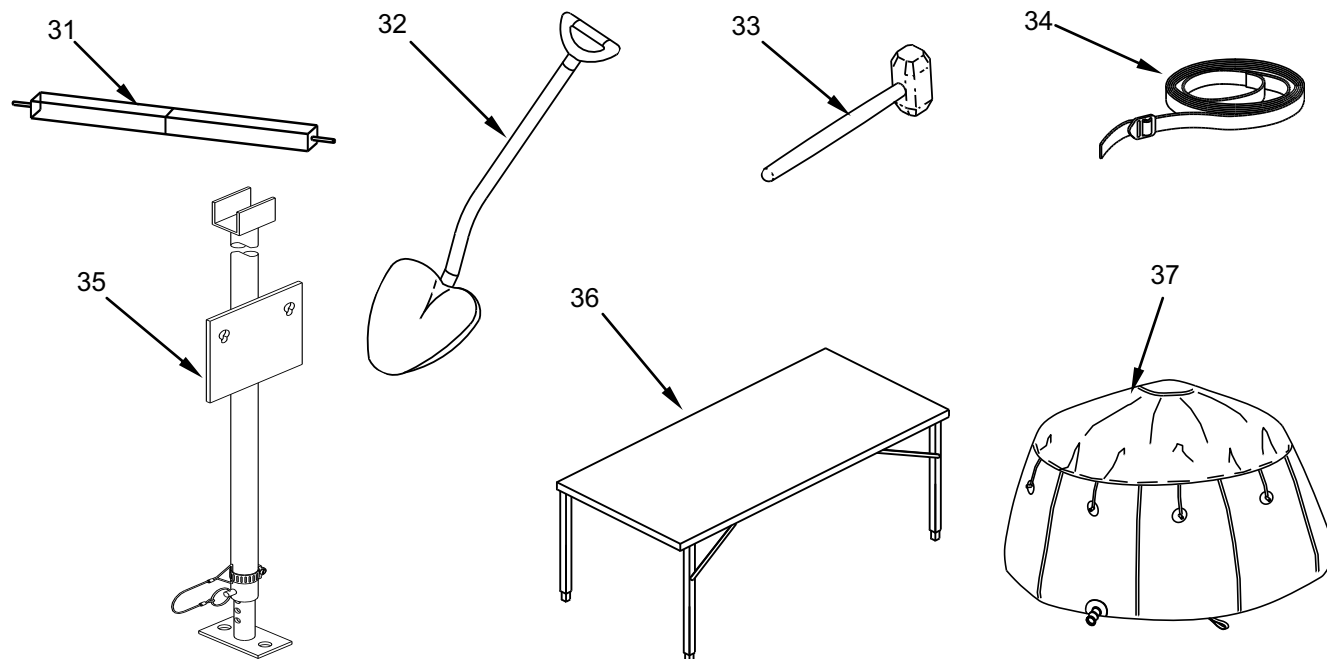


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
31	9540-01-491-3804	SHORING BEAM, 09PD1, 1059, (located in TRICON 2A (5), 2B (4) (Part of Transportation and Storage Subsystem)		EA	9
32	5120-00-293-3336	SHOVEL, ROUND POINT, D HANDLE (located in TRICON 2A) (80244)		EA	2
33	5120-00-900-6098	GGG-S-326, TYPE IV, CLASS A, STYLE I SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG (located in TRICON 2A) (58536) A-A-1293		EA	1
34	5340-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN (98313) FDC5770-5 (located in (TRICON 2B) (Part of Transportation and Storage Subsystem)		EA	4
35	6110-01-242-6691	STAND, DIST. BOX, TEMPER (located in TRICON 2A) (81337) 1-6-6005		EA	1
36	7110-01-415-6895	TABLE, FOLDING, 6' ALUMINUM located in TRICON 2A) (81337) 9-1-0191		EA	4
37	5430-01-170-6984	TANK, FABRIC, 3,000 GAL (located in TRICON 2A) (81349) MIL-T-53408		EA	2
37	5430-01-469-8744 (Alternate)	TANK, FABRIC, 3,000 GAL (located in TRICON 2A) (81349) MIL-T-53408		EA	2

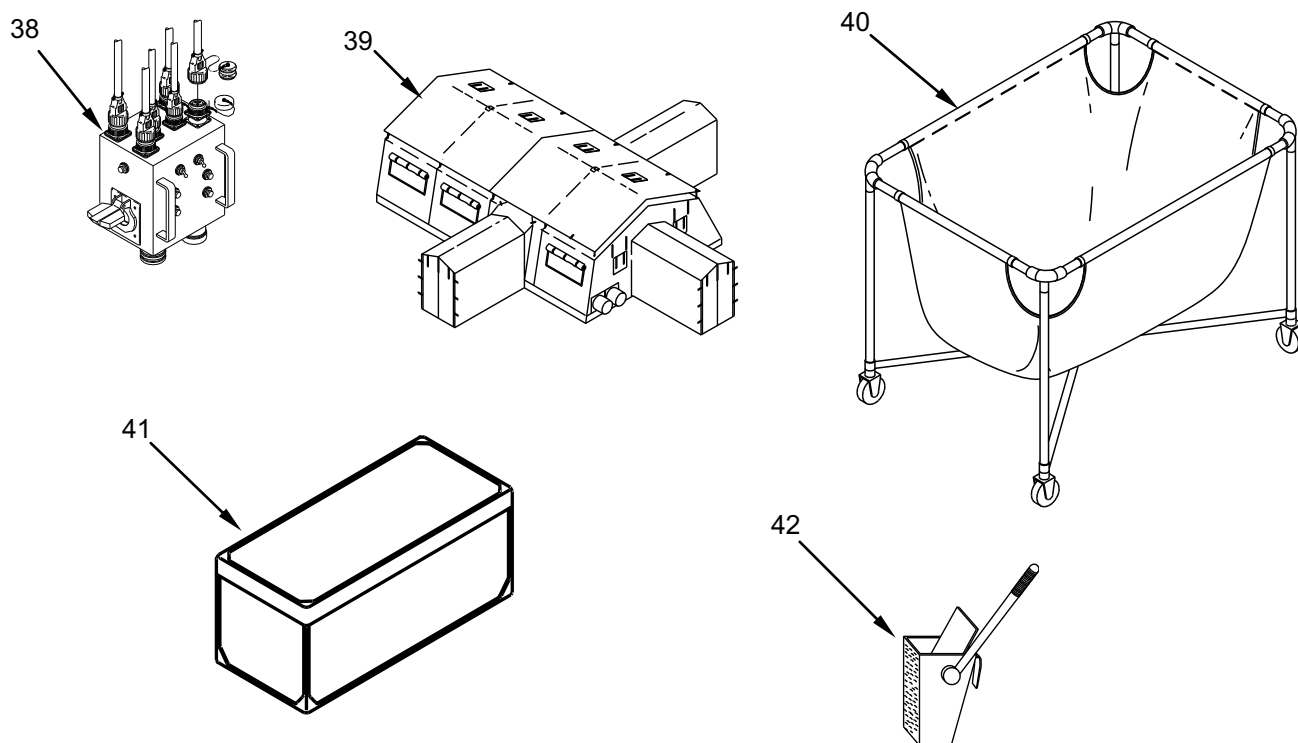
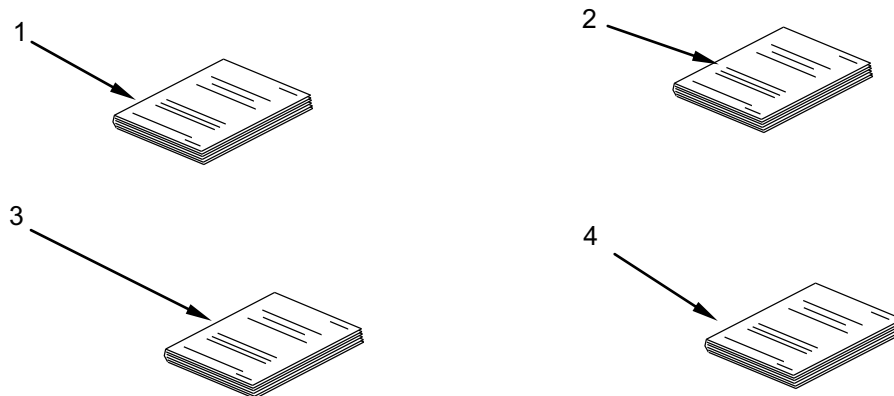


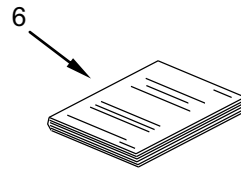
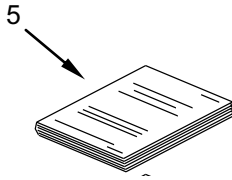
Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
38	6110-01-251-0402	TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V (located in TRICON 2A) (81337) 1-6-6041		EA	1
39	8340-01-443-7330	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE XIX, 32 FT, COLOR-GREEN (located in TRICON 2A) (81349) MIL-T-44243, TYPE-XIX	FSN	EA	1
39	8340-01-443-7332	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE XIX, 32 FT, COLOR-TAN (located in TRICON 2A) (81349) MIL-T-44243, TYPE-XIX	FSQ	EA	1
40	3920-00-929-8588	TRUCK, HAND, LAUNDRY, PLASTIC, 12 BUSHEL (located in TRICON 2B) (81349) A-A-50025-4		EA	2
41	8460-01-471-1024	TRUNK, LOCKER (located in TRICON 2A) (58536) 1B, A-A-59490		EA	13
42	7920-00-682-6861	WRINGER, MOP (located in TRICON 2A) (58536) A-A-261		EA	1



**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (DISE) AND POWER DISTRIBUTION ILLUMINATION SYSTEMS. ELECTRICAL (PDISE) CONSISTING OF ELECTRIC FEEDER SYSTEM M200, M200 A/P, ELECTRICAL FEEDER SYSTEM M100, M100 A/P, ELECTRICAL DISTRIBUTION M40, M40 A/P, ELECTRICAL DISTRIBUTION SYSTEM M60, M60 A/P, ELECTRICAL ASSEMBLY M46 (located in TRICON 2A) TM 9-6150-226-13		EA	1
2	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (1 each located in TRICON 2A and 2B)		EA	2
3	N/A	TM 10-8340-224-13 OPERATOR'S AND UNIT MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR TANK, FABRIC, COLLAPSIBLE; AIR COLUMN SUPPORTED, OPEN TOP, WATER STORAGE, 3,000 GALLONS MODEL 90028 (2 each located in TRICON 2A)		EA	2
4	N/A	TM 10-5430-237-12&P OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR SEWAGE EJECTION PUMP (located in TRICON 2B) TM 10-4630-206-13&P		EA	1

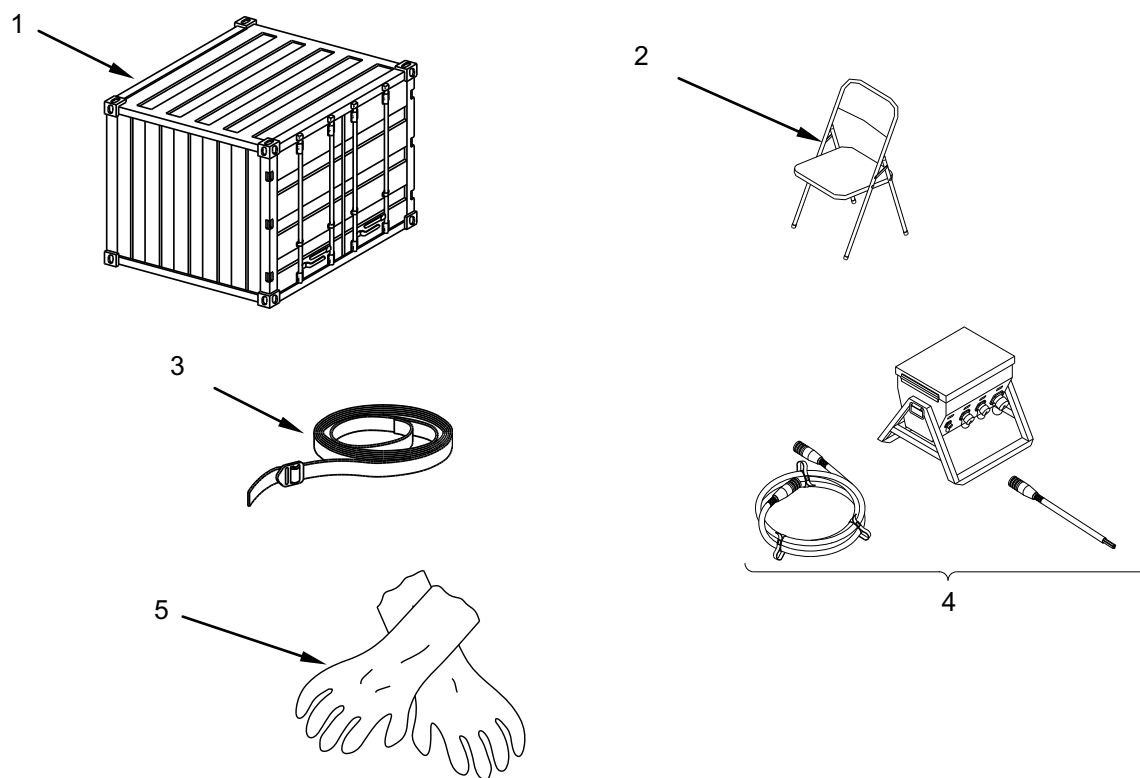


**Table 2. Basic Issue Items List – Continued.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
5	N/A	OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR CONTAINERIZED BATCH LAUNDRY (located in ISO 2C (CBL)) TM 10-3510-225-13&P		EA	1
6	N/A	UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL, REPAIR PARTS AND SPECIAL TOOLS LIST FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (1 each located in TRICON 2A and 2B) TM 10-8340-224-23P		EA	2



**FORCE PROVIDER LATRINE SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS (TRICON 3B) (09PDO) BXTPCGATPD0003 – Green (Part of Transportation and Storage Subsystem)	FSN	EA	2
1	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS (TRICON 3B) (09PDO) BXTPCTATPD0003 – Tan (Part of Transportation and Storage Subsystem)	FSQ	EA	2
2	7105-00-269-8463	CHAIR, FOLDING, STEEL (located in TRICON 3B) (80244) AA-C-291, TY1, CL1		EA	30
3	3990-01-204-3009	SPECIAL PURPOSE WEB, TIEDOWN (located in TRICON 3B) (98313) FDC5770-5Part of Transportation and Storage Subsystem)		EA	8
4	6150-01-308-5671	ELECTRICAL FEEDER SYSTEM, PDISE M100 (located in TRICON 3B) (97403) TA13229E6351		EA	2
5	8415-00-782-2809	GLOVE INSERTS, COTTON, PR, 81349, MIL-G-82241 (located in TRICON 3B) (Part of Floodlight Subsystem)		PR	2

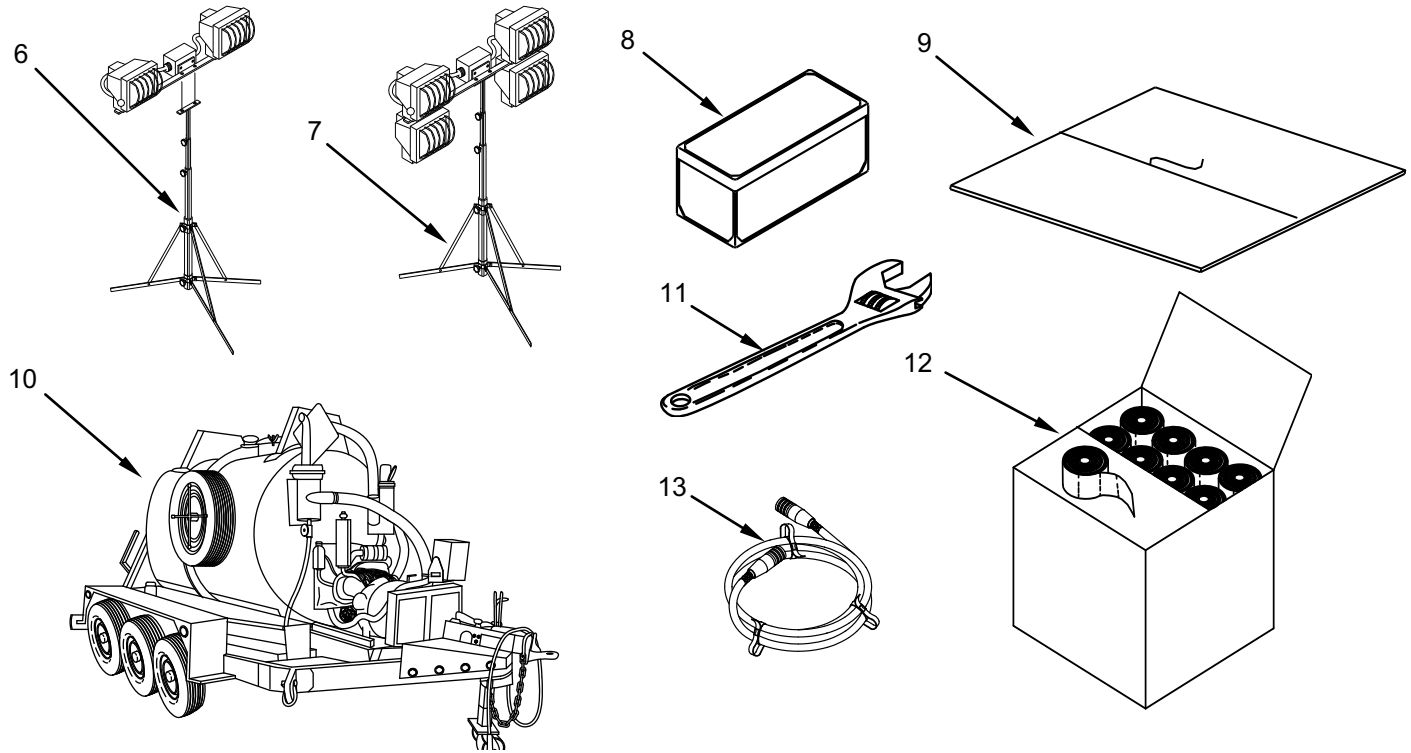


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
6		TRIPOD FLOODLIGHT, 1000W (located in TRICON 3B) (23287) PUL-1000Q-TB (Part of Floodlight Subsystem)		EA	2
7		TRIPOD FLOODLIGHT, 2000W (located in TRICON 3B) (23287) PUL-2000Q-TA (Part of Floodlight Subsystem)		EA	2
8	8460-01-471-1024	TRUNK, LOCKER, 2 TRAYS (located in TRICON 3B) (81349) MIL-T-10798		EA	24
9	8145-01-503-4404	SHELF, SHIPPING AND STORAGE, 09PD1, 1041A, (located in TRICON 3B) (Part of Transportation and Storage Subsystem)		EA	2
10	4630-01-513-8155	WASTE WATER EVACUATION TANK/TRAILER (1CNQ1) 9290-5		EA	2
11	5120-00-449-8083	WRENCH, ADJUSTABLE, 10 ½-inch LONG, TY I, CL (located in TRICON 3B), 58536. A-A-2344		EA	2
12	8540-00-530-3770	PAPER TOILET TISSUE (ROLL) BOX, WHITE, SINGLE PLY, UNGLAZED (located in TRICON 3B) 58536, A-A-697		EA	10
13	6150-01-220-5588	CABLE ASSEMBLY, POWER, 60 A, 100 FT (located in TRICON 3B) (81349) M29184/3-02		EA	4

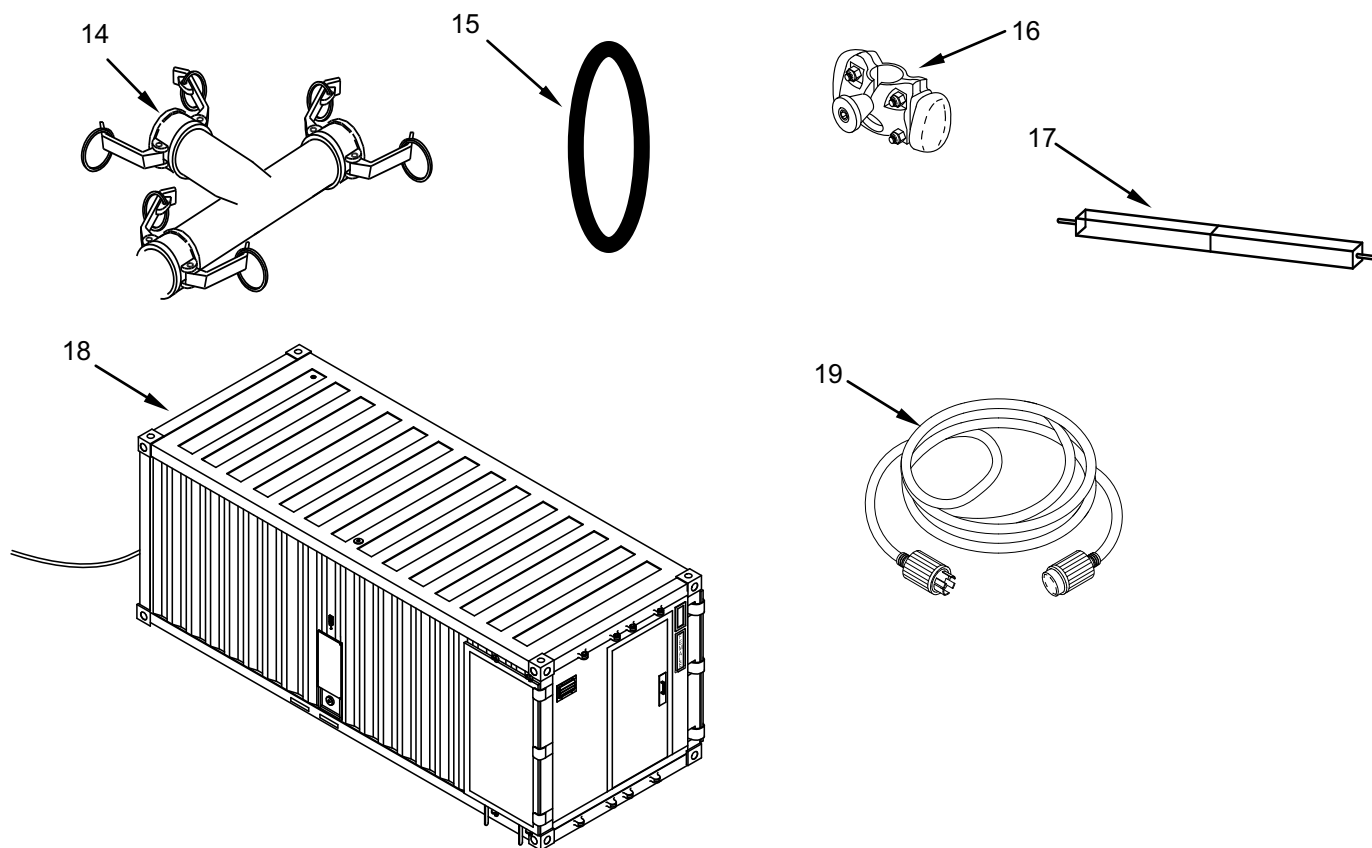
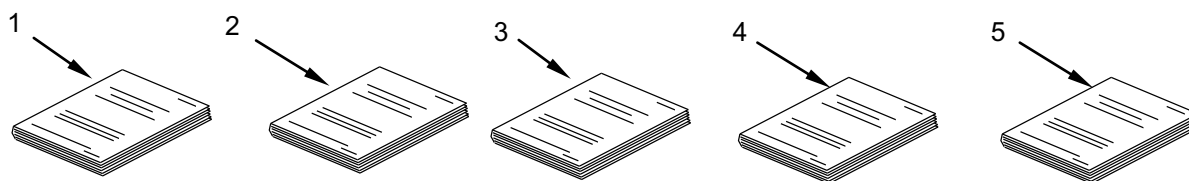


Table 1. Components of End Item List – Continued.

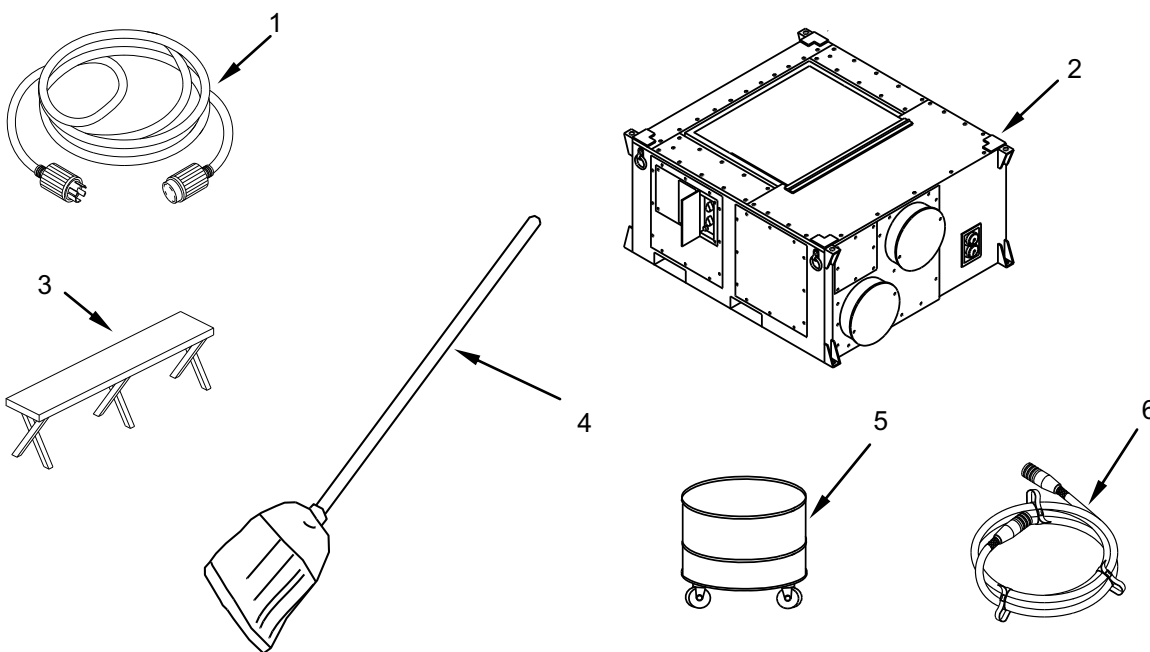
(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
14	4730-01-413-3398	TEE ASSEMBLY 1½-inch FC X FC X FC WATER (located in TRICON 3B) (81377) 9-1-0188		EA	2
15	5330-00-899-4509	GASKET, COUPLING HALF, QDISC, CAM LOCK, 4-INCH (located in TRICON 3B) 96906, MS27030-9,		EA	4
16		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 3B) (Part of Transportation and Storage Subsystem)		EA	3
17	9540-01-491-3804	SHORING BEAM, 09PD1, 1059, (located in TRICON 3B) (Part of Transportation and Storage Subsystem)		EA	4
18	4510-01-543-4012	CONTAINERIZED LATRINE (ISO 3A-1 through 4) (81337) LP/P DES 1-97		EA	4
19		EXTENSION CORD, 50', 12/3/ CABLE (located in TRICON 3B) (07909) 02293 (Part of Floodlight Subsystem)		EA	4



**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (One each located in TRICON 3B) TM 10-8340-224-13		EA	2
2	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (DISE) AND POWER DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (PDISE) CONSISTING OF ELECTRIC FEEDER SYSTEM M200, M200 A/P, ELECTRICAL FEEDER SYSTEM M100, M100 A/P, ELECTRICAL DISTRIBUTION M40, M40 A/P, ELECTRICAL DISTRIBUTION SYSTEM M60, M60 A/P, ELECTRICAL ASSEMBLY M46 (One each located in TRICON 3B) TM 9-6150-226-13		EA	2
3	N/A	OPERATOR, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) FOR WASTE WATER EVACUATION TANK TRAILER (WET/T) (One each located with each WET/T) TM 10-4630-207-13&P		EA	2
4	N/A	OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) CONTAINERIZED LATRINE (CL NSN: 4510-01-453-4012) CONTAINERIZED LATRINE SYSTEM (CLS) NSN: 4510-01-477-7764 (One each located in ISO 3A) TM 10-4510-209-13&P		EA	4
5	N/A	UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL, REPAIR PARTS AND SPECIAL TOOLS LIST FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (One each located in TRICON 3B) TM 10-8340-224-23P		EA	2

**FORCE PROVIDER SHOWER SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	6150-01-413-9314	25 FT EXTENSION CORD, 120V, GFCI (located in TRICON 4B) (81337) 9-1-0183		EA	2
2	4120-01-432-6408 OR MAY RECEIVE 4120-01-413-7835	AIR CONDITIONER 54 K BTUH, 208V, 3 PHASE, 50/60 HZ, HORIZONTAL (located in TRICON 4C) (97403) MIL-A-0083216; TA 13230E3500		EA	2
3	7110-01-415-6896	BENCH, 6 FT (located in TRICON 4D) (81337) 9-1-0187		EA	12
4	7920-00-291-8305	BROOM, UPRIGHT (located in 4B) (80244) H-B-0051, TYPE 2		EA	2
5	7920-00-926-5243	BUCKET, MOP, STEEL, OVAL, 16 QUART, W/ CASTERS (located in TRICON 4B) (58536) A-A-262		EA	2
6	6150-01-220-5588	CABLE ASSEMBLY, POWER, 60 A, 100 FT (located in TRICON 4B) (81349) M29184/3-02		EA	4

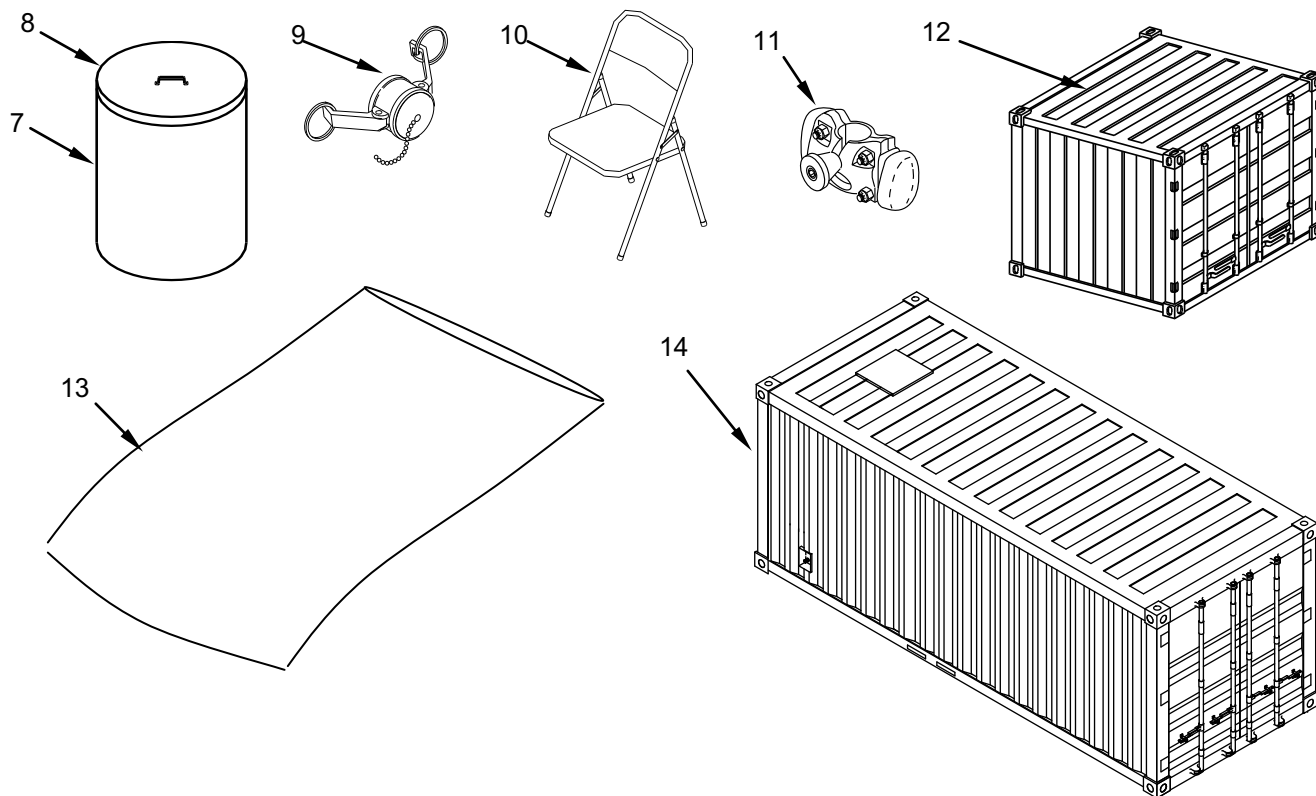


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
7	7240-00-160-0440	CAN, ASH AND GARBAGE, 32 GAL, STEEL, GALV (located in TRICON 4D) (58536) A-A-1069		EA	2
8	7240-00-161-1143	CAN, COVER, ASH AND GARBAGE (located in TRICON 4D) (58536) A-A-1069		EA	2
9	4730-00-649-9100	CAP, DUST, QD, 2 IN (located in TRICON 4D (96906) MS27028-11		EA	2
10	7105-00-269-8463	CHAIR, FOLDING, STEEL (15 located in TRICON 4C 10 4D) (80244) AA-C-291; TYPE 1, CLASS 1		EA	25
11		CONNECTOR LINKS, 09PD1, 1046, (3 each located in TRICON 4B, 4C, 4D, 4E) (Part of Transportation and Storage Subsystem)		EA	15
12	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) WITH CONNECTORS (TRICON 4B, 4C, 4D(2) and 4E) (09PDO) BXTPCGATPD0003 – Green BXTPCTATPD0003 – Tan (Part of Transportation and Storage Subsystem)		EA	5
13	8340-01-186-3029	CONTAINER, VESTIBULE, TEMPER (located in TRICON 4B) (81337) 5-4-3374-1		EA	2
14	4510-01-447-7763	CONTAINERIZED SHOWER SYSTEM (ISO 4A) (81337) 5-13-6736-1 (GREEN)	FSN	EA	2
14	4510-01-447-7763	CONTAINERIZED SHOWER SYSTEM (ISO 4A) (81337) 5-13-6736-2 (TAN)	FSQ	EA	2

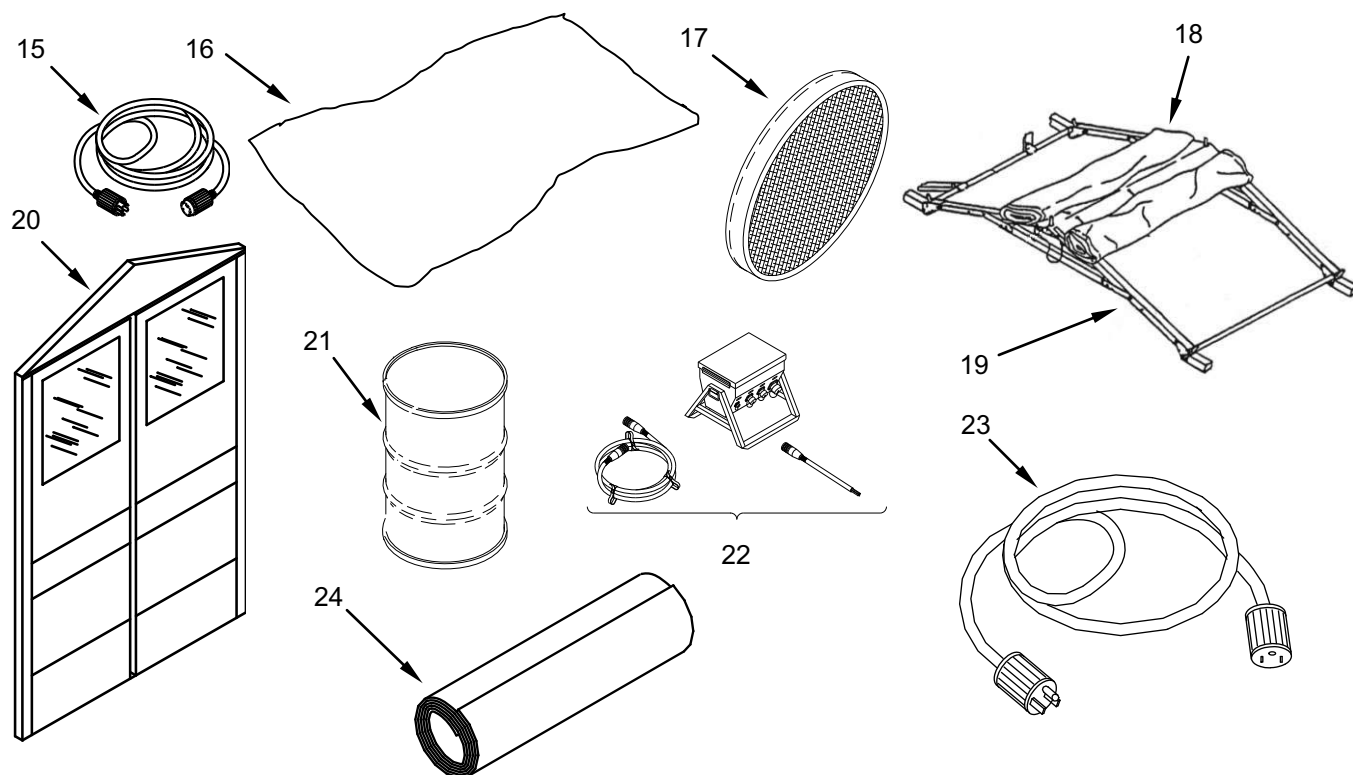


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
15		CORD, ELECTRICAL, 3-WIRE, 110V, 50-FT (located in TRICON 4D) (81337) 9-1-0557		EA	2
16	8340-01-186-3019	COVER TENT, TEMPER (GREEN) (located in TRICON 4B) (81337) 5-4-3359-1	FSN	EA	4
16	8340-01-186-3019	COVER TENT, TEMPER (TAN) (located in TRICON 4B) (81337) 5-4-3359-2	FSQ	EA	4
17	4130-01-415-7300	DEBRIS SCREEN, AIR CONDITIONER DUCT ADAPTER (located in TRICON 4C) (81337) 9-1-0146		KT	2
18	8340-01-186-3015	DOOR SECTION DESERT/TROPICAL (GREEN) (located in TRICON 4B) (81337) 5-4-3351-1	FSN	EA	2
18	8340-01-186-3015	DOOR SECTION DESERT/TROPICAL (TAN) (located in TRICON 4B) (81337) 5-4-3351-2	FSQ	EA	2
19	8340-01-239-7002	DOOR FRAME SECTION W/COVER (located in TRICON 4B) (81337) 5-4-3330-3		EA	2
20	8340-01-263-2546	DOORS, DOUBLE-BUMP-THROUGH, GREEN (located in TRICON 4E) (81337) 5-4-4081-2		EA	4
21	8110-00-597-2353	DRUM, SHIPPING AND STORAGE, STEEL, 55- GALLON (located in TRICON 4D) (81348) PPP-D-729TYPE I, CLASS A		EA	2
22	6150-01-308-5671	ELECTRICAL FEEDER SYSTEM, PDISE M100 (located in TRICON 4B) (97403) TA13229E6351		EA	1
23		EXTENSION CORD, 50-FT, #12 AWG/3 (located in TRICON 4C) 81337, 9-1-0769-1		EA	2
24	7220-00-254-4240	FLOOR MAT, ALTERED ITEM (MAKE FROM NSN 7220-00-254-4240, CUT TO 32FT) (located in TRICON 4B and 4D) (81337) 9-1-0189-1		EA	4

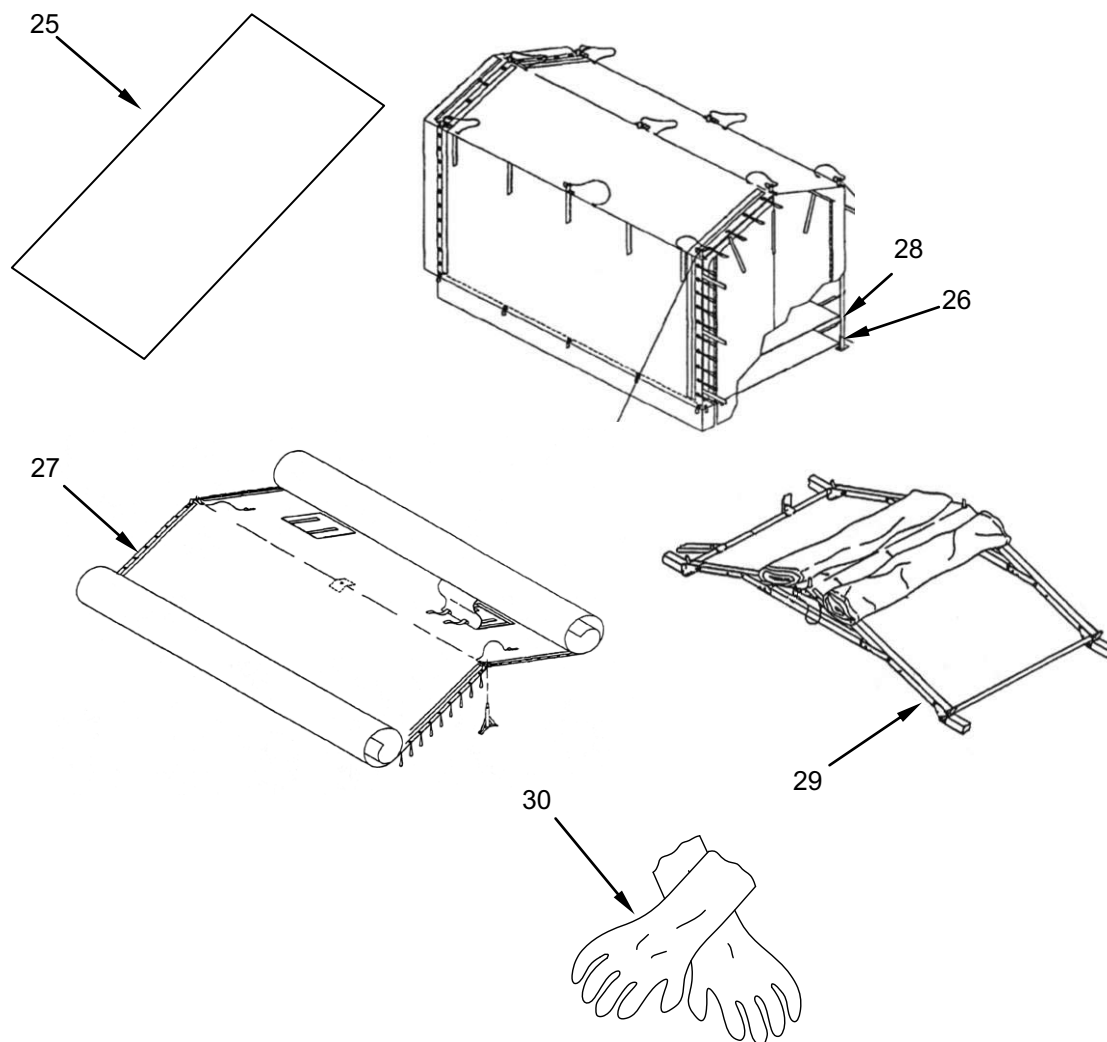


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
25	8340-01-186-3024	FLOOR, 8-FT, SINGLE PLY, TEMPER (located in TRICON 4B) (81337) 5-4-3368-1		EA	4
26	8340-01-186-3027	FLOOR, VESTIBULE, SINGLE PLY, TEMPER (located in TRICON 4B) (81337) 5-4-3372-1		EA	2
27	8340-01-186-3018	FLY, TENT, 16-FT (GREEN) (located in TRICON 4B) (81337) 5-4-3353-1	FSN	EA	2
27	8340-01-186-3018	FLY, TENT, 16-FT (TAN) (located in TRICON 4B) (81337) 5-4-3353-2	FSN	EA	2
28	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE, TEMPER (located in TRICON 4B) (81337) 5-4-3343-1		EA	6
29	8340-01-239-7001	FRAME, WINDOW SECTION W/COVER (located in TRICON 4B) (81337) 5-4-3330-2		EA	2
30	8415-00-782-2809	GLOVE INSERTS, COTTON, PR, 81349, MIL-G-82241 (located in TRICON 4C) (Part of Floodlight Subsystem)		PR	1



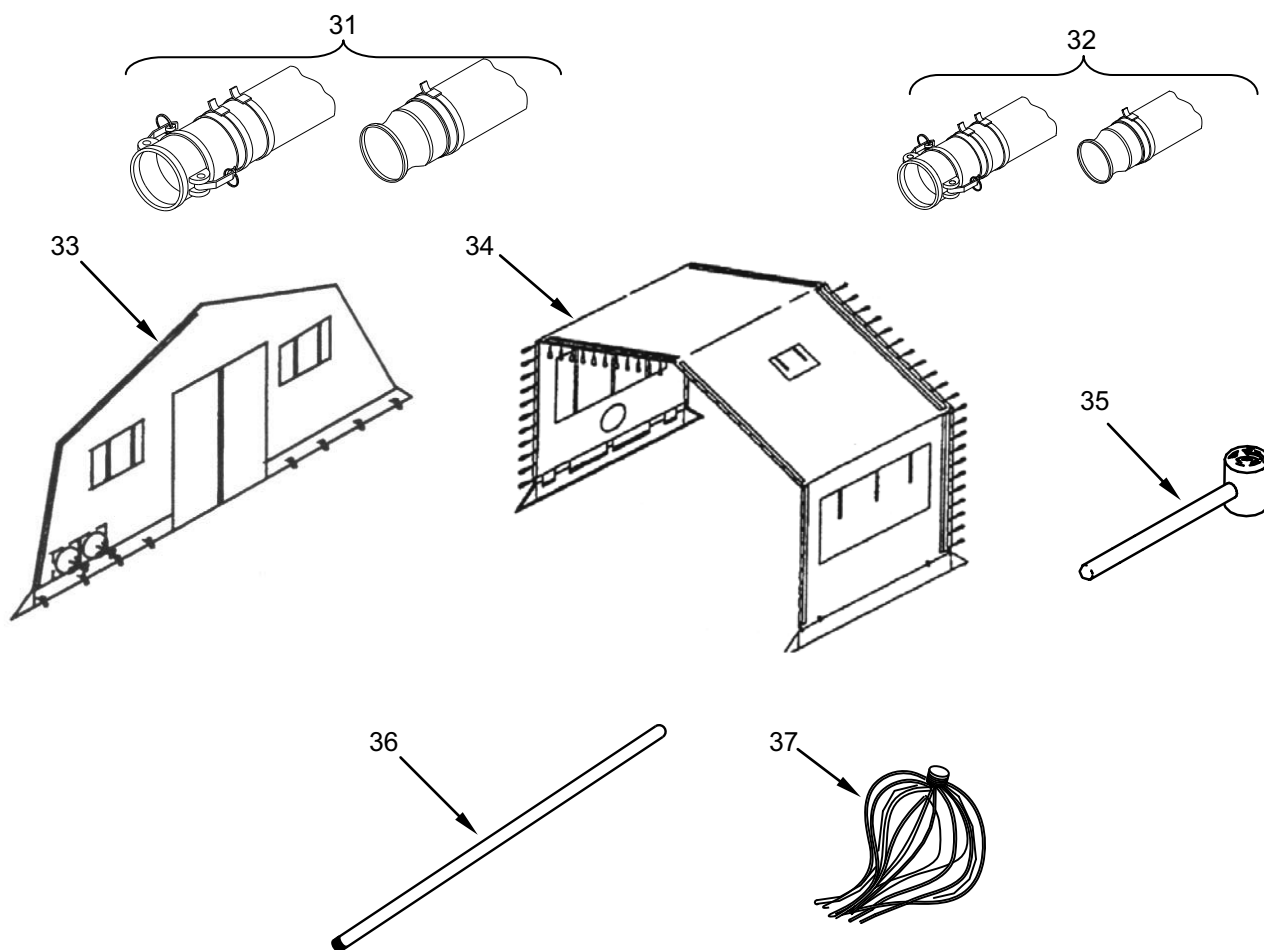


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
31		HOSE ASSEMBLY, BLACKWATER, QDISC, 1½-inch x 2-foot (located in TRICON 4E) (81337) 9-1-0781-21		EA	4
32		HOSE ASSEMBLY, POTABLE WATER, QDISC, ¾-inch x 2¼-foot (located in TRICON 4E) (81337) 9-1-0781-21		EA	8
33	8340-01-213-9566	LINER, END SECTION, D/T TEMPER, (located in TRICON 4B) (81337) 5-4-3365		EA	2
34	8340-01-392-0924	LINER, INTERMEDIATE, TEMPERATE, TEMPER (located in TRICON 4B) (81337) 5-4-3366		EA	4
35	5120-00-926-7116	MALLET, WOOD, 6" FACE X 8" LONG HEAD (located in TRICON 4B) (80244) LLL-M-71, TP IX		EA	1
36	7920-00-267-1218	MOP HANDLE (located in TRICON 4B) (80244) MM-H-101, TYPE 1, CLASS 1, SIZE B		EA	2
37	7520-00-141-5550	MOP HEAD, WET (located in TRICON 4B) (80244) T-M-561, TYPE 1, STYLE 1, CLASS 15		EA	2

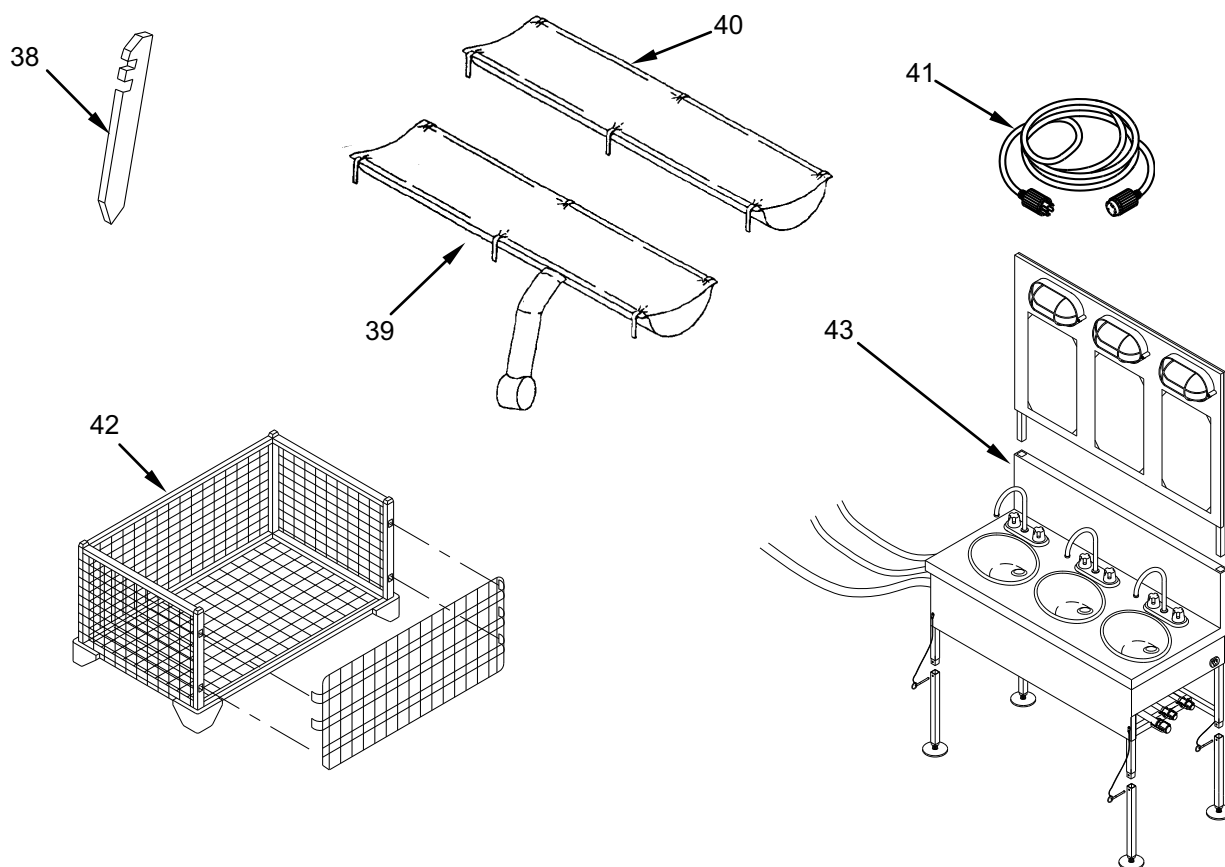


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
38	8340-00-261-9751	PIN, TENT, WOOD, SIZE 2 (24") (located in TRICON 4B) (81349) MIL-P-2383, SIZE 2		EA	30
39	8340-01-186-3035	PLENUM, END WALL, 16-FT, TEMPER (located in TRICON 4B) (81337) 5-4-3614		EA	2
40	8340-01-186-3036	PLENUM, EXTENDABLE, 16-FT, TEMPER (located in TRICON 4B) (81337) 5-4-3618		EA	2
41	6150-01-413-2235	POWER CABLE, CLASS L TO COMMERCIAL, 20 A (located in TRICON 4E) (81337) 9-1-0182		EA	4
42	7125-01-334-3159	RACK, STORAGE (located in TRICON 4D) (81337) 5-13-4059		EA	6
43	4540-01-470-1396	SHAVE STAND SYSTEM (located in TRICON 4E) (81337) 9-1-0616		EA	2

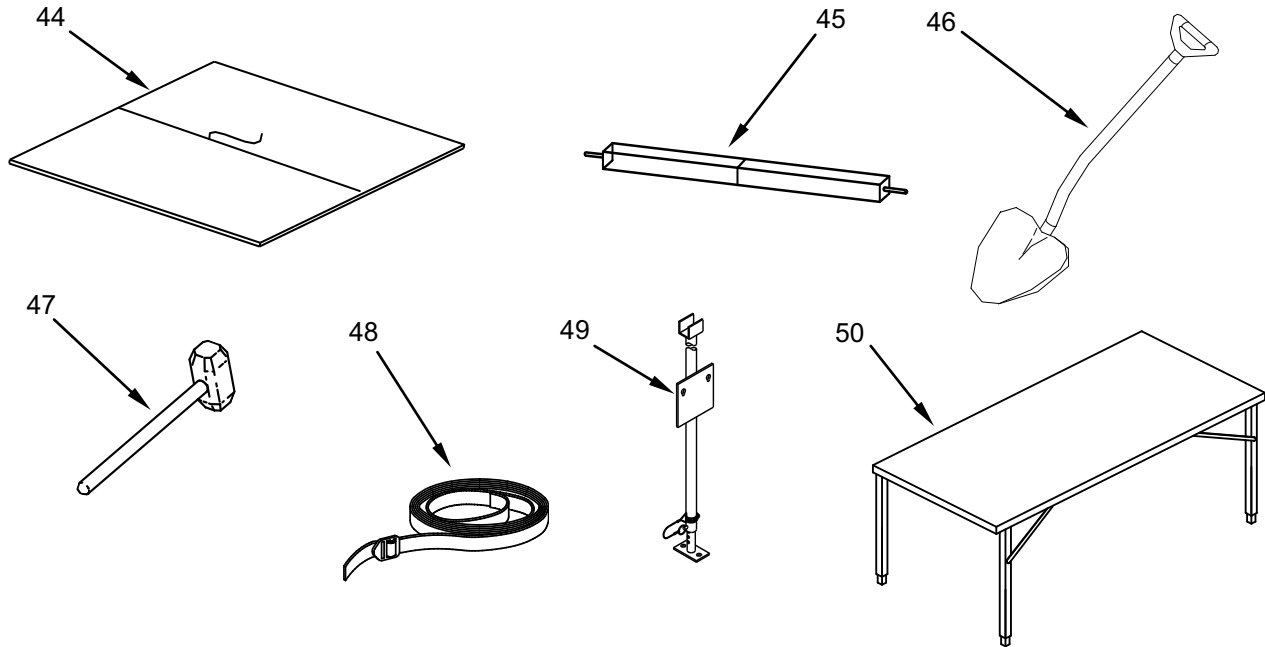


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
44	8145-01-503-4404	SHELF, SHIPPING AND STORAGE, 09PD1, 1041A, (located in TRICON 4B, 4C, 4D, 4E) (Part of Transportation and Storage Subsystem)		EA	11
45	9540-01-491-3804	SHORING BEAM, 09PD1, 1059, (located in TRICON 4B, 4C, 4D, 4E) (Part of Transportation and Storage Subsystem)		EA	24
46	5120-00-293-3336	SHOVEL, ROUND POINT, D HANDLE (located in TRICON 4B) (80244)		EA	2
47	5120-00-900-6098	GGG-S-326, TYPE IV, CLASS A, STYLE I SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG (located in TRICON 4B) (58536) A-A-1293		EA	1
48	3990-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN (located in TRICON 4B, 4C, 4D, 4E) (98313) FDC5770-5 (Part of Transportation and Storage Subsystem)		EA	24
49	6110-01-242-6691	STAND, DISTRIBUTION BOX, TEMPER (located in TRICON 4B) (81337) 1-6-6005		EA	2
50	7110-01-415-6895	TABLE, FOLDING, 6', ALUMINUM (located in TRICON 4D) (81337) 1-0191,		EA	6

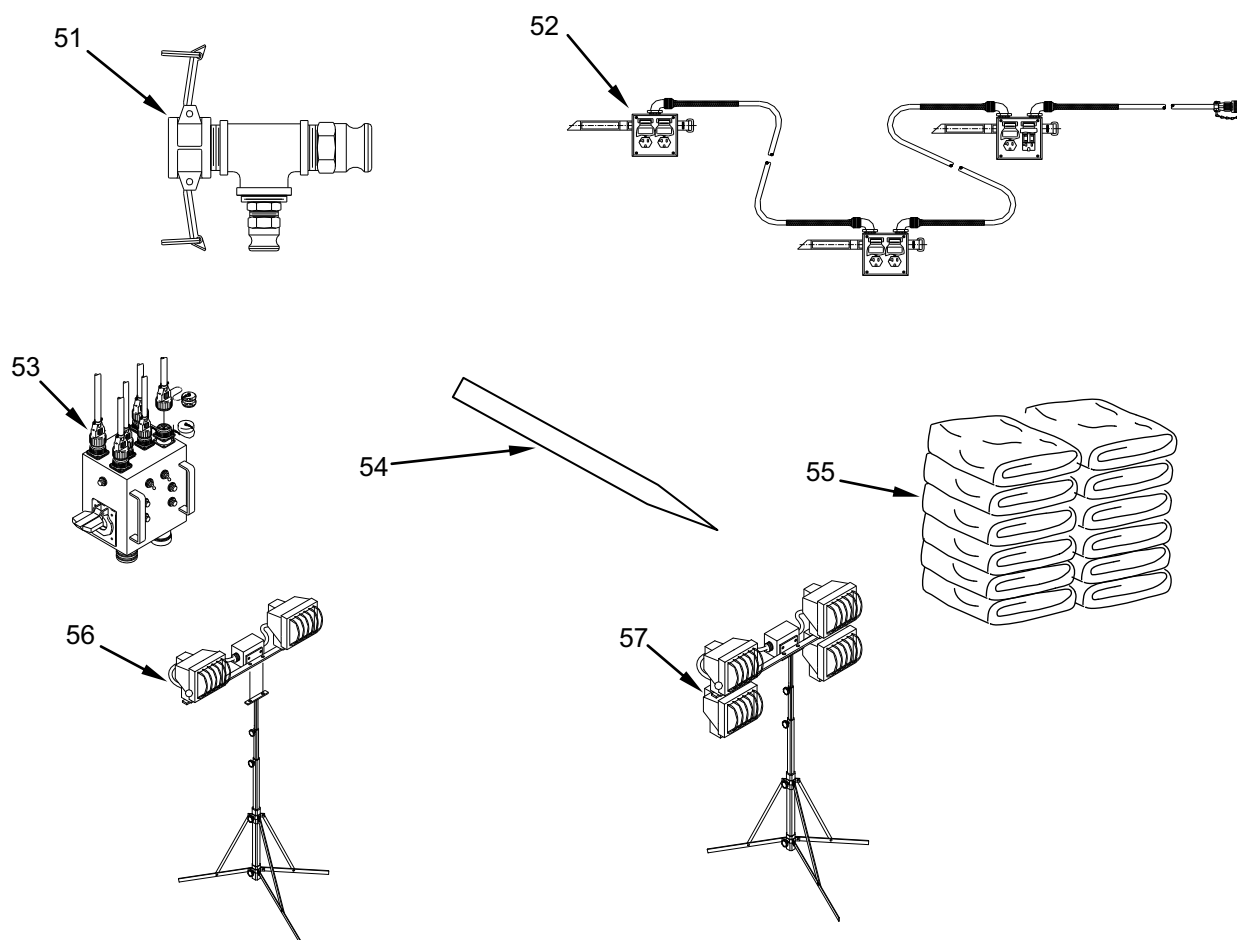


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
51		TEE ASSEMBLY , QDISC, 1½-inch x 1½-inch x ¾-inch (located in TRICON 4D) (81337) 9-1-0559		EA	2
52	6150-01-470-1916	TEMPER CONVENIENCE OUTLET ASSEMBLY, 3 DROP (located in TRICON 4B) (81337) 9-1-0624		EA	4
53	6110-01-251-0402	TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V (located in TRICON 4B) (81337) 1-6-6041		EA	2
54	8340-00-985-7461	TENT PIN, STEEL, 18 IN (located in TRICON 4B) (81337) 5-4-196		EA	120
55	7210-01-051-5837	TOWEL, BATH, COTTON TERRY (twenty-six dozen located in TRICON 4B, thirty-seven dozen located in TRICON 4D) (80244) DDD-T-551; TYPE1, CLASS 1, STYLE A, B, OR C		DZ	100
56		TRIPOD FLOODLIGHT, 1000W (located in TRICON 4C) (23287) PUL-1000Q-TA		EA	1
57		TRIPOD FLOODLIGHT, 2000W (located in TRICON 4C) (23287) PUL-1000Q-TA		EA	1

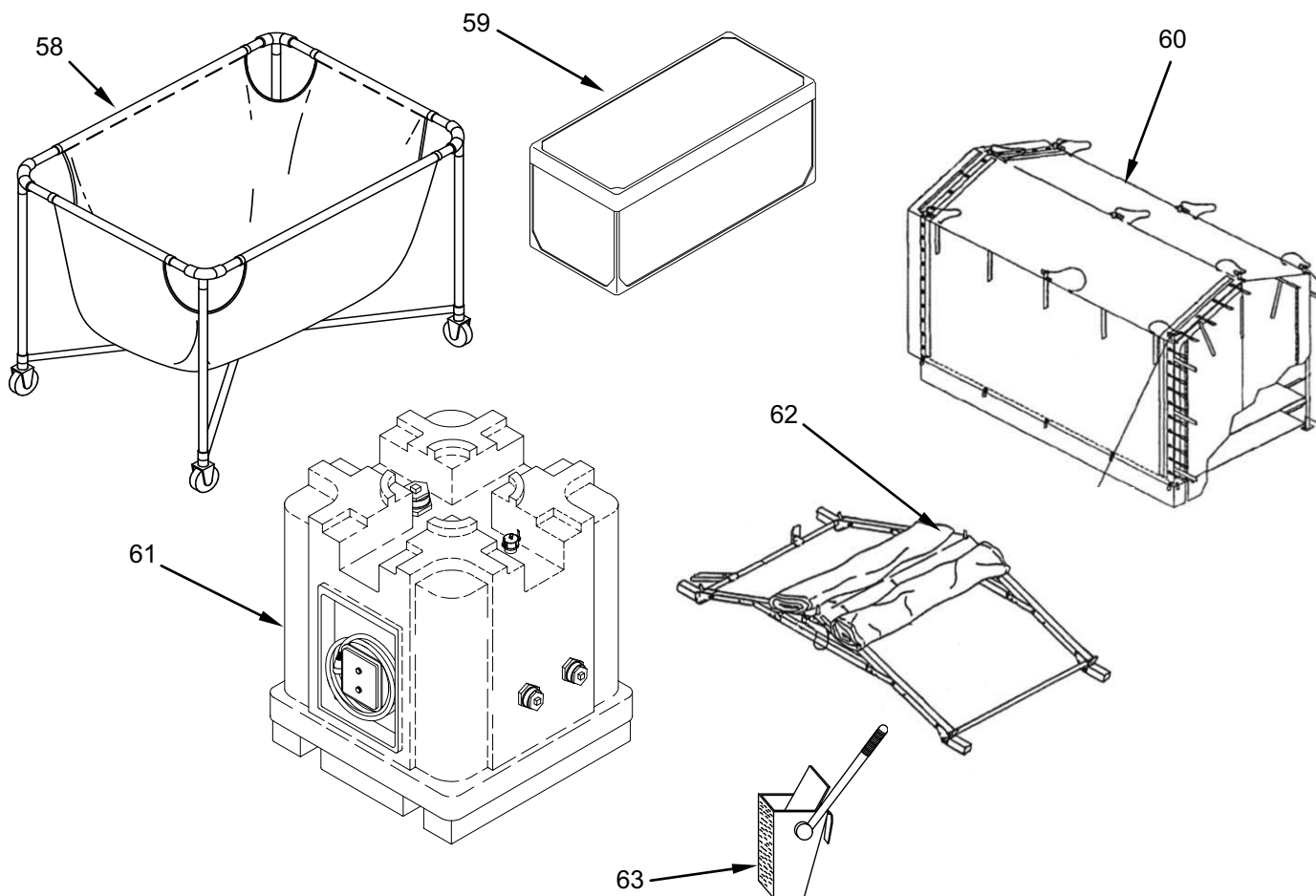
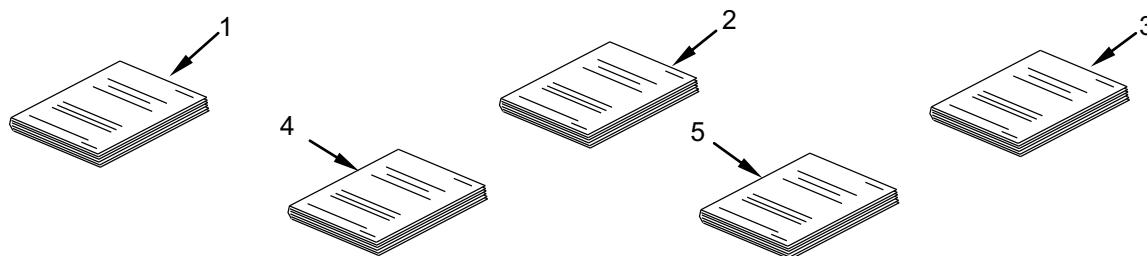


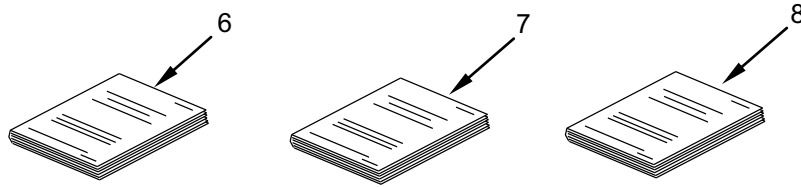
Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
58	3920-00-929-8588	TRUCK, HAND, BOX, LAUNDRY, PLASTIC, 12 BUSHEL (located in TRICON 4D) (81349) A-A-50024-4		EA	2
59	8460-01-471-1024	TRUNK, LOCKER ( eight located in TRICON 4B, ten located in TRICON 4C, eleven located in TRICON 4D) (58536) A-A-59490		EA	40
60	8340-01-186-3026	VESTIBULE, TEMPER (GREEN) (located in TRICON 4B) (81337) 5-4-3370-1	FSN	EA	2
60	8340-01-198-7621	VESTIBULE, TEMPER (TAN) (located in TRICON 4B) (81337) 5-4-3370-2	FSQ	EA	2
61	4630-01-505-3746	WASTE WATER TRANSFER SYSTEM (located in TRICON 4D) (81337) 9-1-0527		EA	2
62	8340-01-186-3021	WINDOW SECTION, TEMPERATE (GREEN) (located in TRICON 4B) (81337) 5-4-3363-1	FSN	EA	2
62	8340-01-186-3021	WINDOW SECTION, TEMPERATE (GREEN) (located in TRICON 4B) (81337) 5-4-3363-2	FSQ	EA	2
63	7920-00-682-6861	WRINGER, MOP (located in TRICON 4B) (58536) A-A-261		EA	2



**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR AIR CONDITIONER 54,000 BTU/HR, 208/230 VOLT 3 PHASE, 50/60 HERTZ MODEL AH-54, TM 9-4120-398-14 (located in TRICON 1B) OR OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FIELD DEPLOYABLE ENVIRONMENTAL CONTROL UNITS MODELS FDECU-2, FDECU-4 AND FDECU-4 9NSN 4120-01-449-459) TM 9-4120-411-14 (located in TRICON 4C)		EA	2
2	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (DISE) AND POWER DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (PDISE) CONSISTING OF ELECTRIC FEEDER SYSTEM M200, M200 A/P, ELECTRICAL FEEDER SYSTEM M100, M100 A/P, ELECTRICAL DISTRIBUTION M40, M40 A/P, ELECTRICAL DISTRIBUTION SYSTEM M60, M60 A/P, ELECTRICAL ASSEMBLY M46 (located in TRICON 4B) TM 9-6150-226-13		EA	1
3	N/A	OPERATOR, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (located in TRICON 4B) TM 10-8340-224-13		EA	1
4	N/A	OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FORCE PROVIDER TM 10-5419-206-13 (located in TRICON 4B)		EA	1
5	N/A	OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR SEWAGE EJECTION PUMP (Two each located in TRICON 4D) TM 10-4630-206-13&P		EA	4



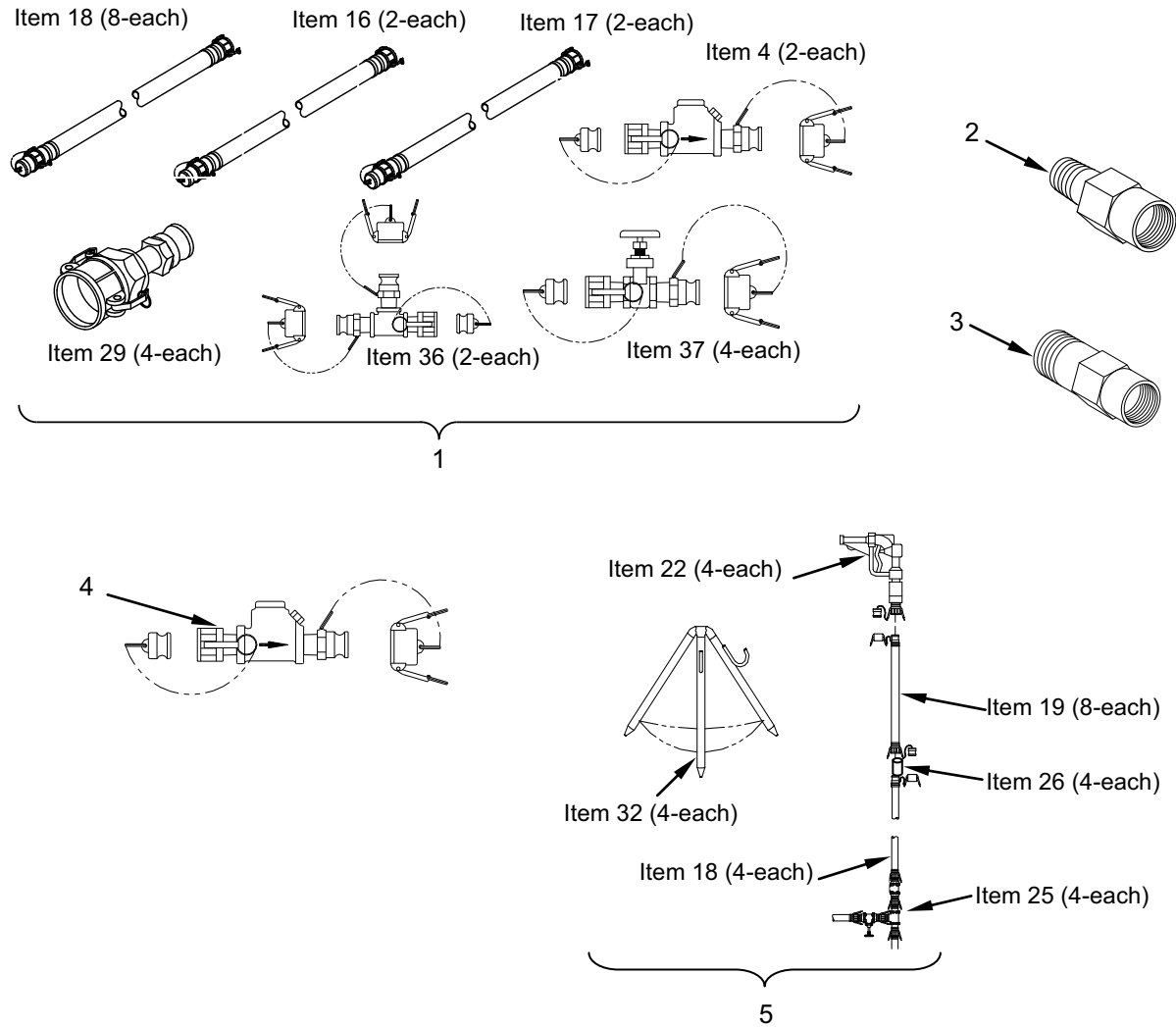
**Table 2. Basic Issue Items List – Continued.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
6	N/A	OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) HEATER, WATER, LIQUID FUEL, M-80 NSN 4520-01-162-0385 M-85 NSN 4520-01-237-3719 (located in TRICON 4E) TM 10-4520-259-13&P		EA	1
7	N/A	REPAIR PARTS AND SPECIAL TOOLS LIST FORCE PROVIDER TM 10-5419-206-23P (located in TRICON 4B)		EA	1
8	N/A	UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL, REPAIR PARTS AND SPECIAL TOOLS LIST FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (located in TRICON 4B) TM 10-8340-224-23P		EA	2



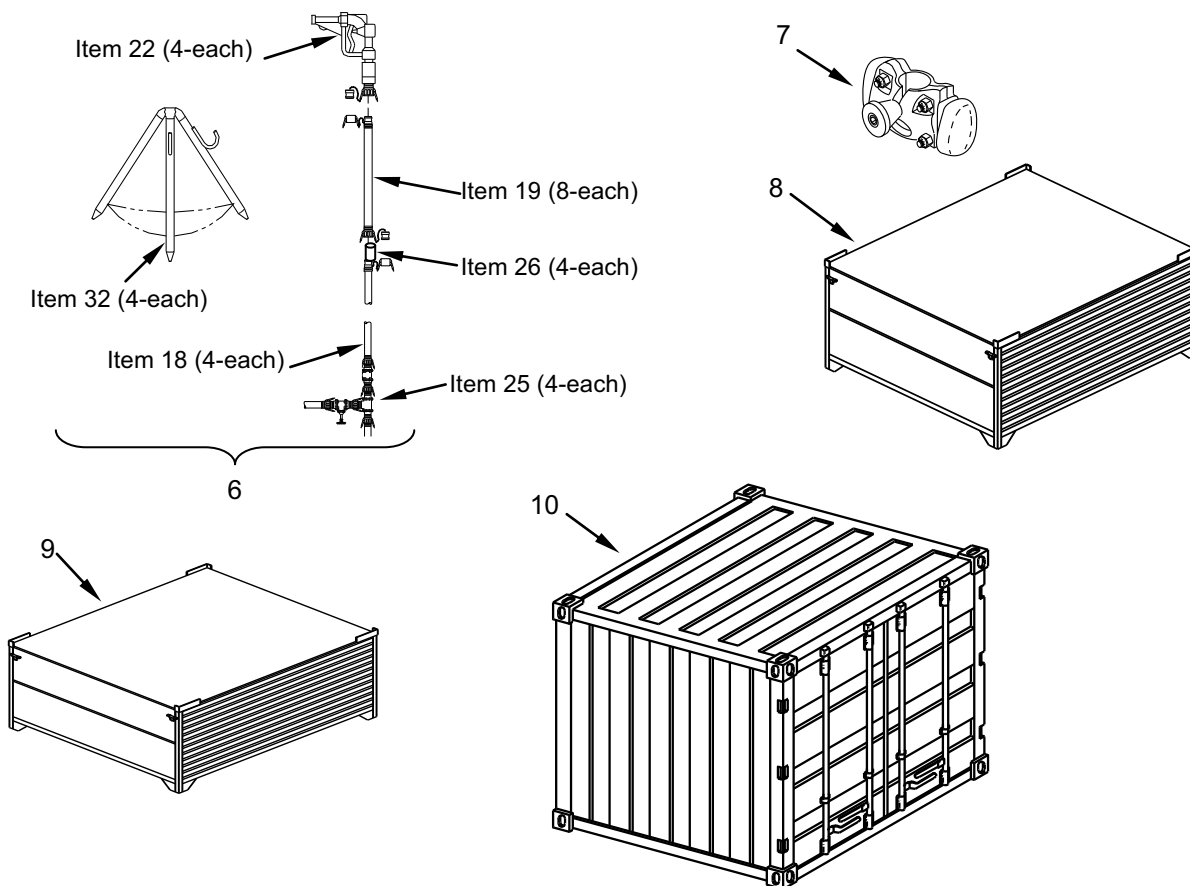


**FORCE PROVIDER POTABLE WATER DISTRIBUTION SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	4320-01-435-4873	ACCESSORY KIT, PUMP UNIT (located in TRICON 5B) (81337) 9-1-0528		EA	1
2	4730-01-415-6420	ADAPTER $\frac{3}{8}$ " NPT X $\frac{3}{4}$ " MALE GARDEN HOSE THREAD (located in TRICON 5B) (97403) 13229E7195		EA	1
3	4730-01-415-6403	ADAPTER ASSEMBLY, 1" FC X $\frac{3}{8}$ " NPT (located in TRICON 5B) (97403) 13229E7170		EA	1
4		CHECK VALVE ASSEMBLY, 1 $\frac{1}{2}$ " (located in TRICON 5B) (81337) 9-1-0520		EA	2
5	3835-01-433-4196	CONNECTION KIT, NOZZLE, LARGE (located in TRICON 5B) (97403) 13230E5679		EA	4



**Table 1. Components of End Item List – Continued.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
6	3835-01-433-4199	CONNECTION KIT, NOZZLE, SMALL (located in TRICON 5B) (97403) 13230E5678		EA	4
7		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 1A, 1B, 1C, 1D) (Part of Transportation and Storage Subsystem)		EA	96
8	8145-01-415-4116	CONTAINER, REUSABLE, BULK EQUIPMENT, MEDIUM (2 each located in TRICON 5A) (81337) 9-1-0142-2		EA	4
9	8145-01-415-4113	CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL (located in TRICON 5B) (81337) 9-1-0142-1		EA	2
10	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) (TRICON 1A, 1B, 1C, 1D) (09PDO) BXTPCGATPD0003 – Green (Part of Transportation and Storage Subsystem)	FSN	EA	32
10	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) (TRICON 1A, 1B, 1C, 1D) (09PDO) BXTPTATPD0003 – Tan (Part of Transportation and Storage Subsystem)	FSQ	EA	32

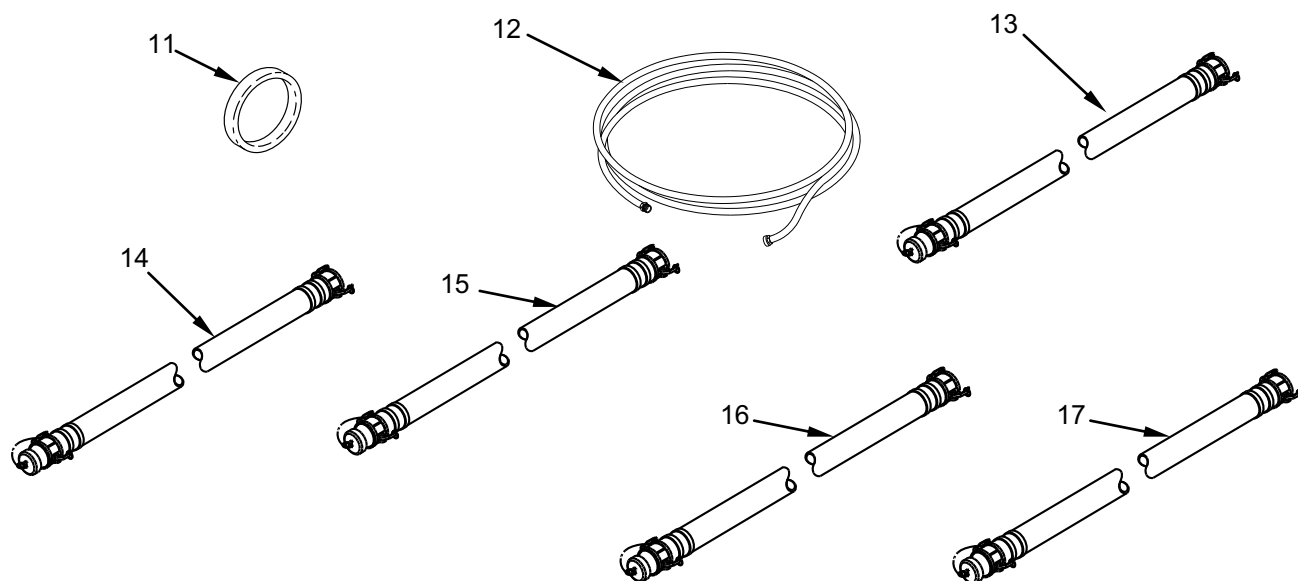


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
11	5330-00-360-0595	GASKET, COUPLING HALF, QD, 1½" (located in TRICON 5B) (96906) MS 27030-5		EA	1
12	4720-00-729-5334	HOSE ASSEMBLY, NON-METALLIC, GARDEN (located in TRICON 5A) (58536) L-H-520; TY2, GDA		EA	2
13		HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM LOCK, 1 ½" X 20 FT, F X F (located in TRICON 5B) (81337) 9-1-0781-94		EA	8
14		HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM LOCK, 4" X 10 FT M X F (located in TRICON 5B) (8133) 9-1-0781-54		EA	4
15		HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM LOCK, 4" X 20 FT M X F (4 located in TRICON 5B, 10 located in each TRICON 5A) (8133) 9-1-0781-56		EA	24
16		HOSE ASSY, POTABLE WATER, QDISC, CAM LOCK, 1 ½" X 10 FT F X M (located in TRICON 5B) (81337) 9-1-0781-34		EA	2
17		HOSE ASSY, POTABLE WATER, QDISC, CAM LOCK, 1 ½" X 15 FT F X F (located in TRICON 5B) (81337) 9-1-0781-93		EA	2

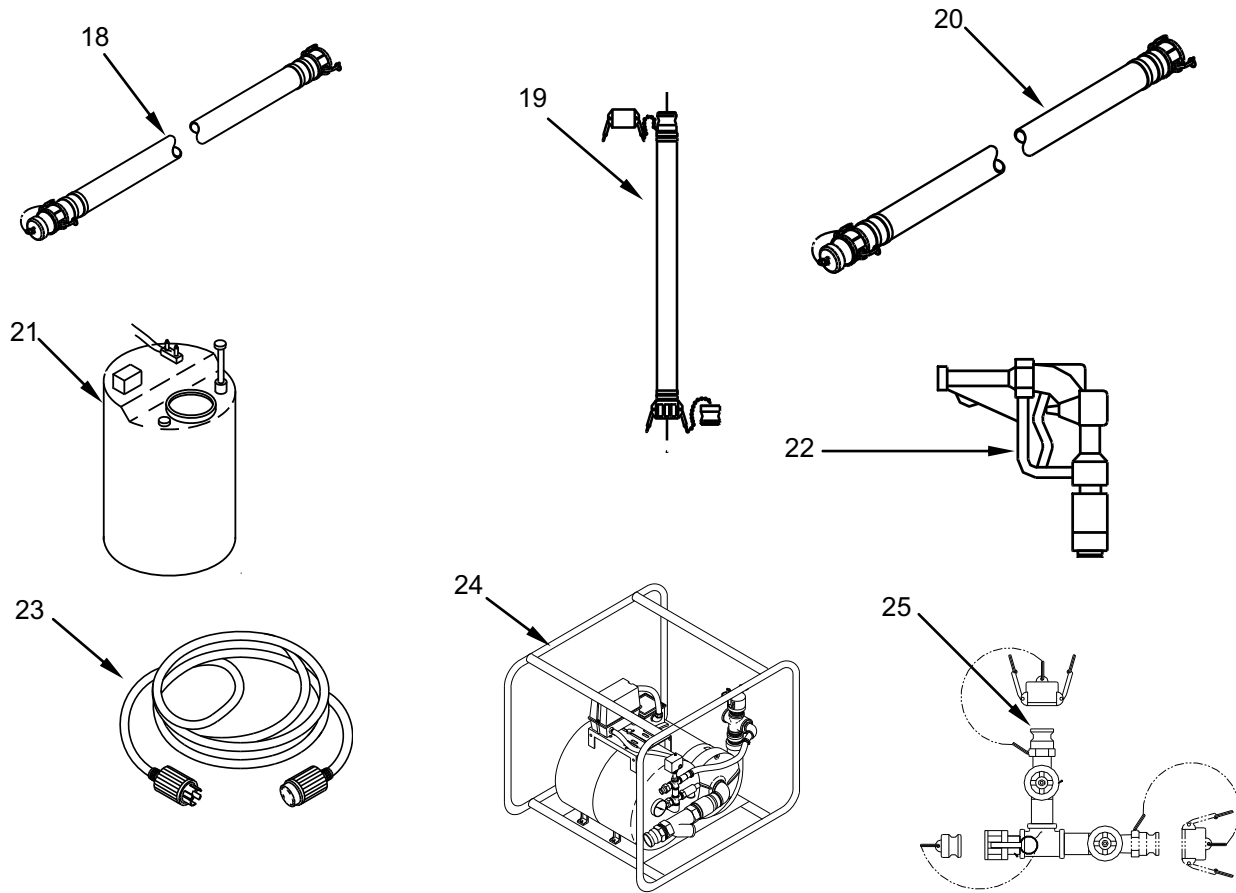


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
18		HOSE ASSY, POTABLE WATER, QDISC, CAM LOCK, 1 ½" X 20 FT F X M (located in TRICON 5B) (81337) 9-1-0781-36		EA	84
19		HOSE ASSY, POTABLE WATER, QDISC, CAM LOCK, 1" X 10 FT F X M (located in TRICON 5B) (81337) 9-1-0781-24		EA	16
20	4720-01-140-6288	HOSE ASSY, RUBBER, DISCHARGE, POTABLE WATER, RDF, 4" X 20 FT (located in TRICON 5A) (97403) 13225E9136-4		EA	20
21	4610-01-435-4884	HYPOCHLORINATION UNIT (located in TRICON 5A) (81337) 9-1-0510		EA	4
22	4610-01-440-6834	NOZZLE ASSEMBLY, WATER, 1" (located in TRICON 5B) (97403) 13229E7168		EA	8
23	6150-01-413-2235	POWER CABLE, CLASS L TO COMMERCIAL, 20 A (2 each located in TRICON 5A and 5B) (81337) 9-1-0182		EA	6
24		PUMP ASSEMBLY, CONTAINERIZED SHOWER (located in TRICON 5A) (81337) 5-13-6761		EA	4
25		RECIRCULATION TEE ASSEMBLY (located in TRICON 5B) (81337) 9-1-0503		EA	12

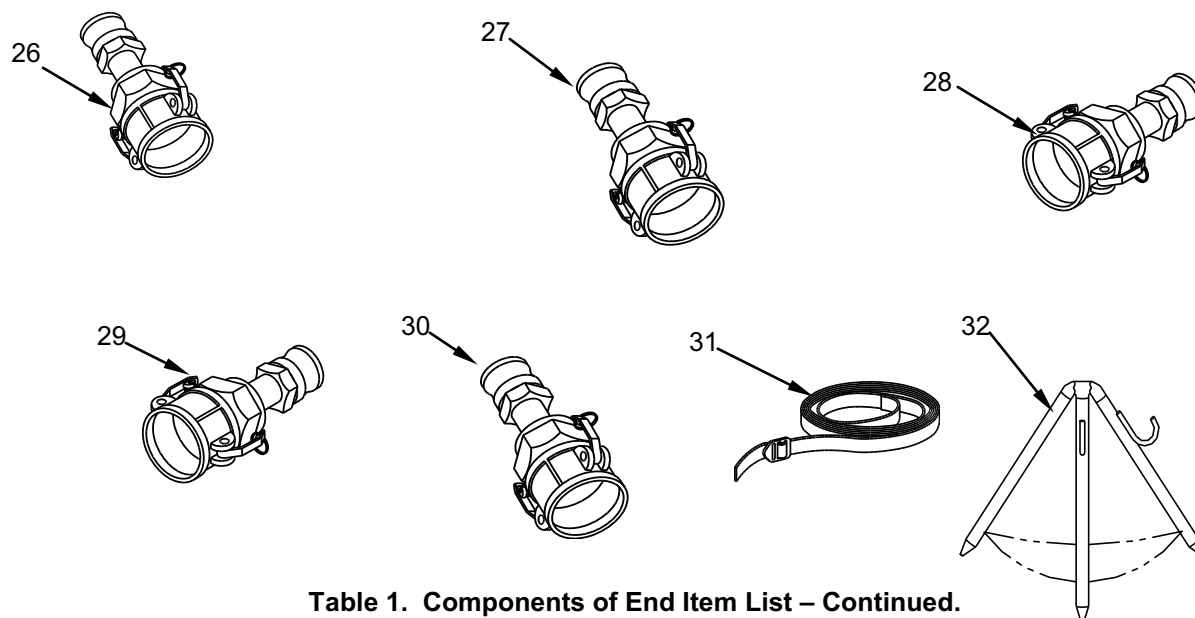


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
23	6150-01-413-2235	POWER CABLE, CLASS L TO COMMERCIAL, 20 A (2 each located in TRICON 5A and 5B) (81337) 9-1-0182		EA	6
24		PUMP ASSEMBLY, CONTAINERIZED SHOWER (located in TRICON 5A) (81337) 5-13-6761		EA	4
25		RECIRCULATION TEE ASSEMBLY (located in TRICON 5B) (81337) 9-1-0503		EA	12
26	4730-00-889-2382	REDUCER, QDISC, CAM LOCK 1 1/2" F X 1" M, AL (located in TRICON 5B) (96906) MS 49000-7		EA	4
27	4730-01-432-4746	REDUCER, QDISC, CAM LOCK 2" M X 1 1/2" F, AL (located in TRICON 5B) (96906) MS 49000-14		EA	1
28	4730-00-889-2382	REDUCER, QDISC, CAM LOCK, 1 1/2" FC X 1" M (located in TRICON 5B) (96906) MS 49000-7		EA	2
29	4730-00-951-3295	REDUCER, QDISC, CAM LOCK, 2" F X 1 1/2" M, AL (located in TRICON 5B) (96906) MS 49000-5		EA	2
30		REDUCER, QDISC, CAM LOCK, 2" F X 4" M, AL (located in TRICON 5B) (96906) MS 49000-20		EA	4
31	5340-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN (located in TRICON 1A, 1B, 1C, 1D) (98313) FDC5770-5 (Part of Transportation and Storage Subsystem)		EA	64
32	4520-01-465-4430	STAND ASSEMBLY, FUEL CAN, COLLAPSIBLE (located in TRICON 5B) (92878) 171250		EA	8

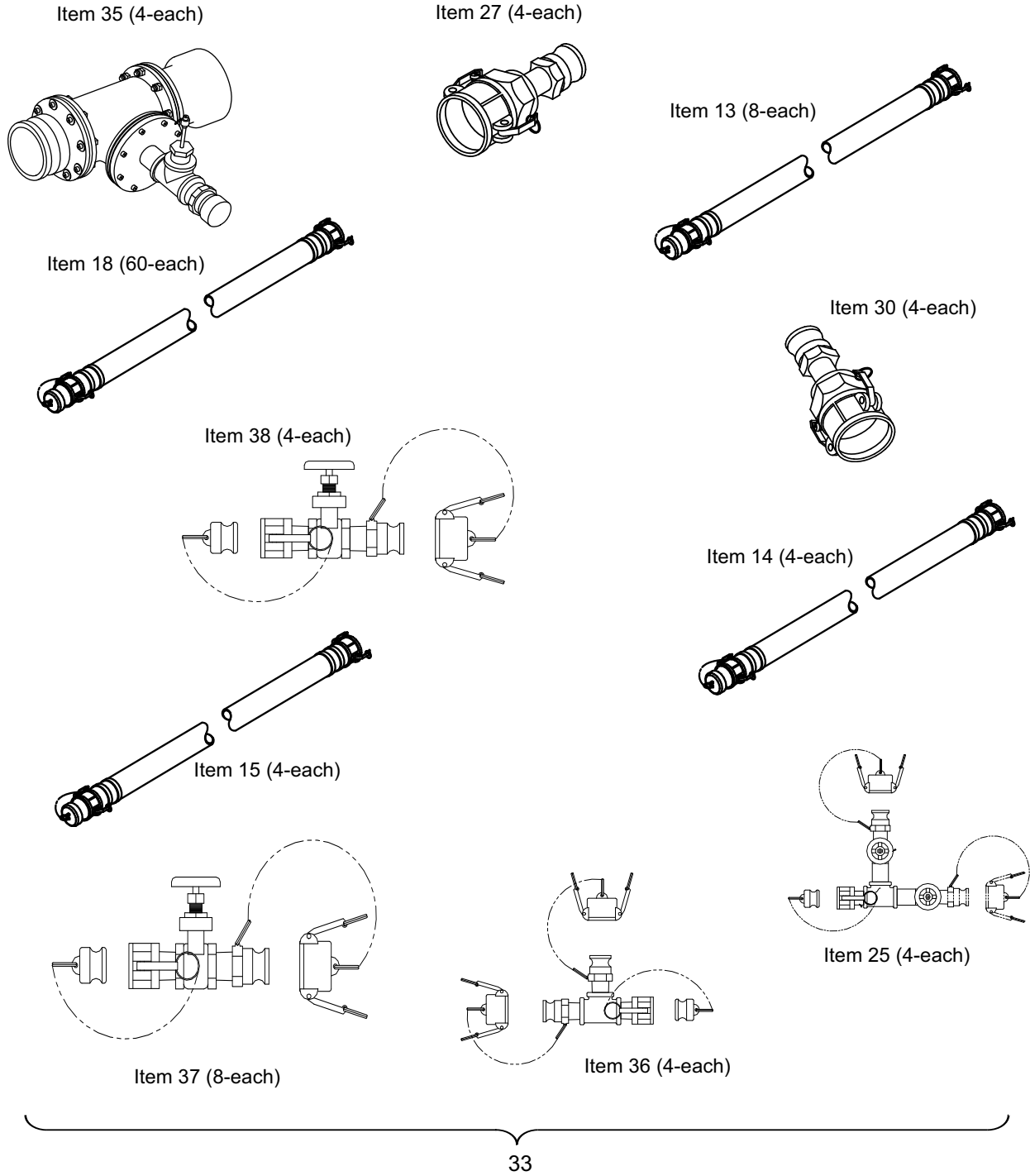
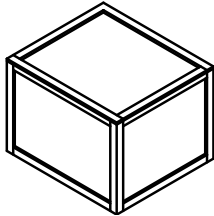
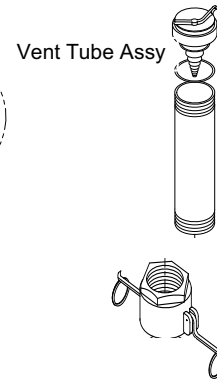
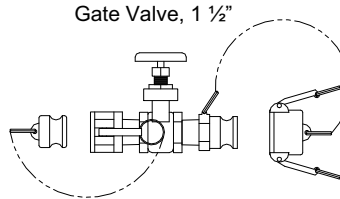
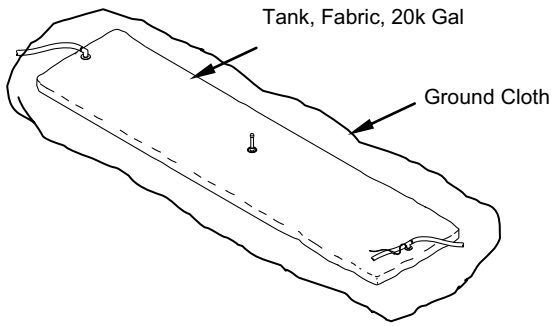
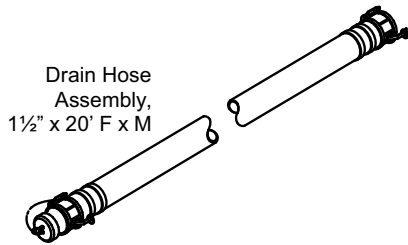
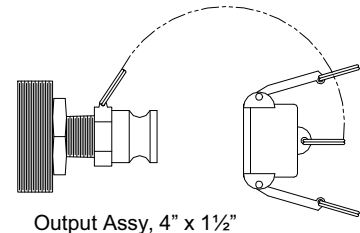
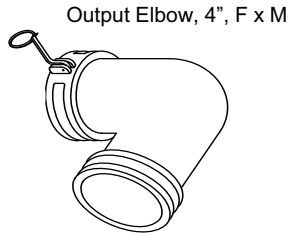


Table 1. Components of End Item List – Continued.

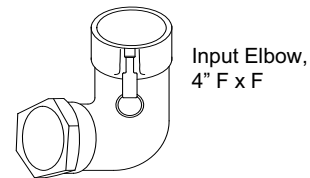
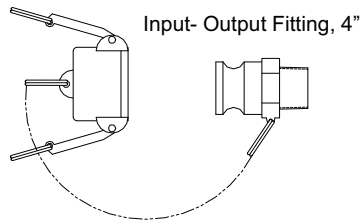
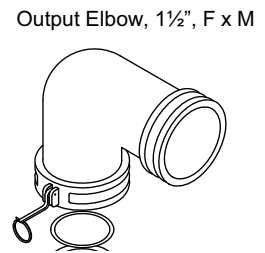
(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
33	5430-01-435-4882	TANK CONNECTION KIT, FP WDS (located in TRICON 5A) (81337) 9-1-0530		EA	4



Emergency Repair Kit  
TM 5-5430-219-13



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(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
34	5430-01-432-6304	TANK, FABRIC, COLLAPSIBLE, 20K GALLON POTABLE WATER WITH GROUND CLOTH AND ACCESSORIES (located in TRICON 5A) (81337) LP/P DES 2-96 TYPE I		EA	4

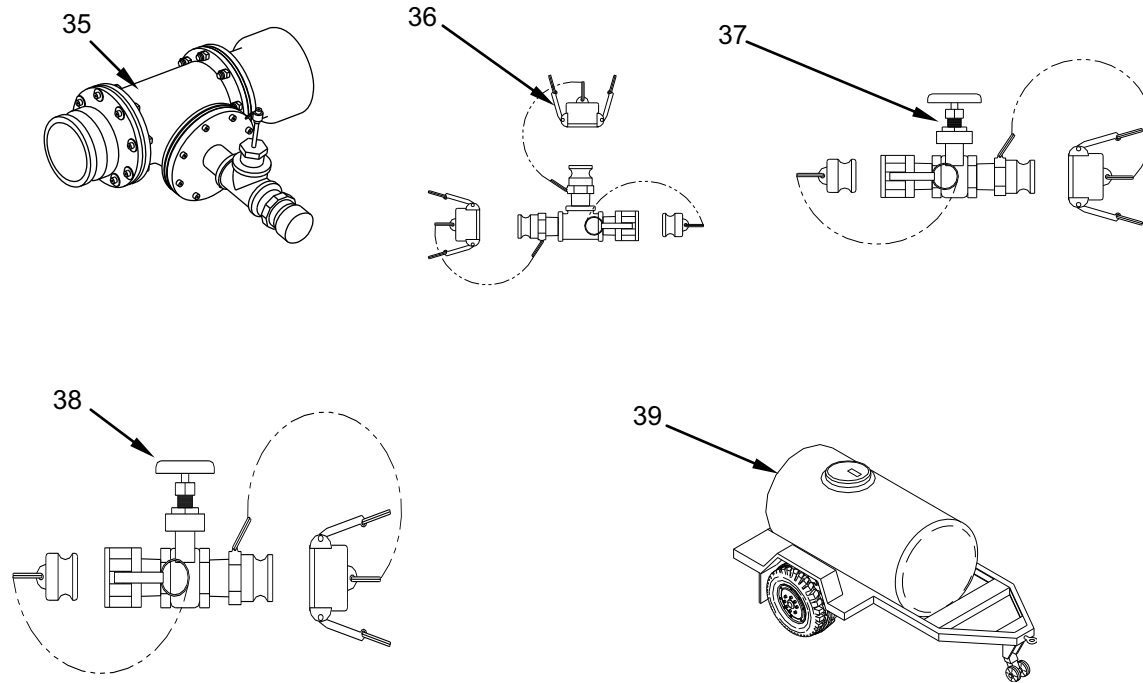
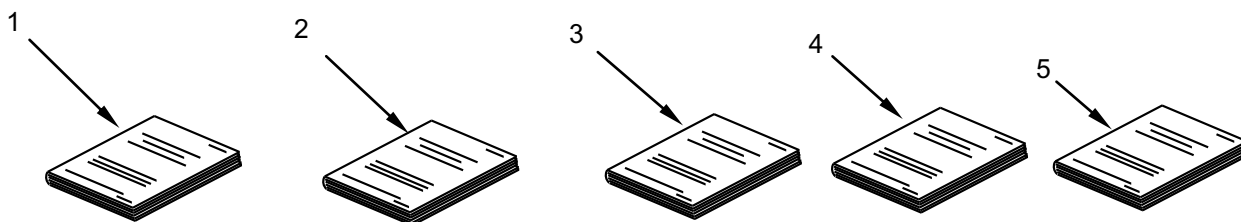


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
35		TEE ASSEMBLY, HYPOCHLORINATOR (located in TRICON 5B) (81337) 9-1-0792		EA	4
36		TEE ASSEMBLY, QDISC, CAM LOCK, 1 1/2" M X 1 1/2" F X 1 1/2" M (located in TRICON 5B) (81337) 9-1-0501		EA	7
37		VALVE ASSEMBLY, GATE, QDISC, CAM LOCK, 1 1/2" F X M (located in TRICON 5B) (81337) 9-1-0500		EA	12
38	4820-01-445-1679	VALVE ASSEMBLY, GATE, QDISC, CAM LOCK, 4" (located in TRICON 5B)		EA	4
39	2330-01-108-7367	WATER TRAILER, 400 GALLON (19207) M149A2		EA	4



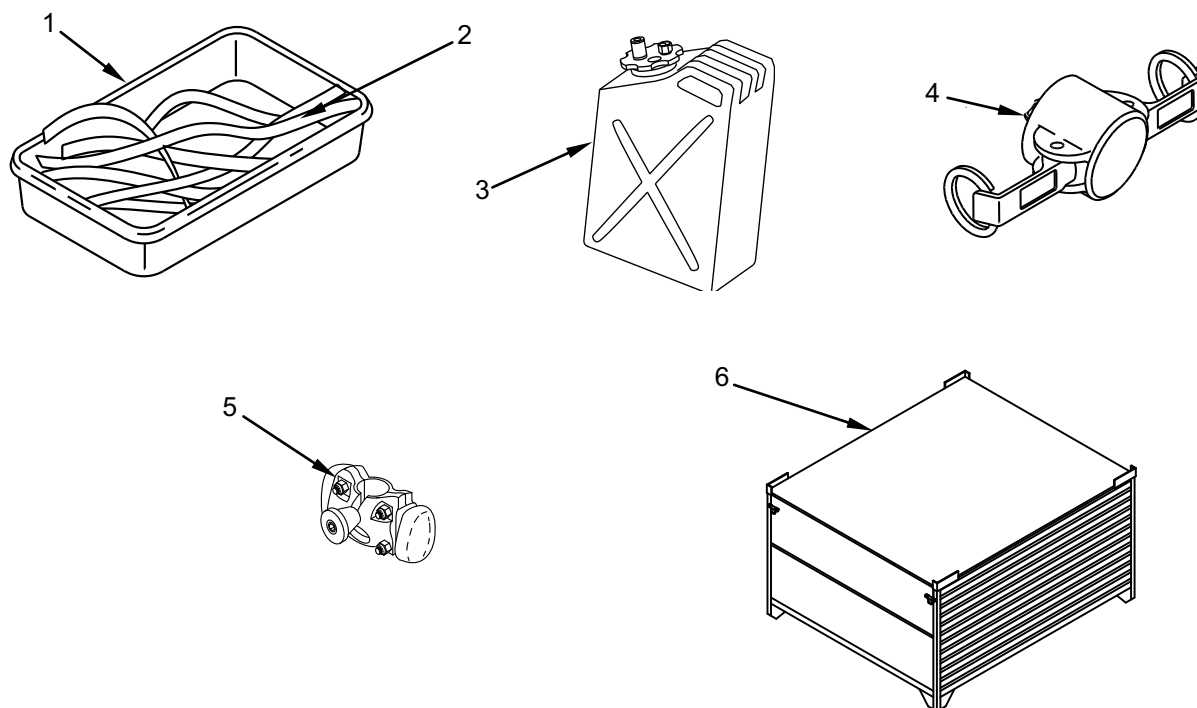


**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, LOCATION, PART NUMBER, AND CAGEC	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR TRAILER, TANK, WATER: 400 GALLON, 1-1/2 TON, 2 WHEEL, M149, M149A1, M149A2 TM 9-2330-267-14&P		EA	4
2	N/A	OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FORCE PROVIDER TM 10-5419-206-13 (located in TRICON 5B)		EA	1
3	N/A	OPERATOR'S, UNIT AND INTERMEDIATE DIRECT SUPPORT MAINTENANCE MANUAL 5K BBL GALLON COLLAPSIBLE FABRIC TANK, 50,000 GALLON COLLAPSIBLE FABRIC TANK, 20,000 GALLON COLLAPSIBLE FABRIC TANK, 10,000 GALLON COLLAPSIBLE FABRIC TANK, 3,000 GALLON COLLAPSIBLE FABRIC TANK (located in TRICON 5A) TM 5-5430-219-13		EA	4
4	N/A	OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR CONTAINERIZED SHOWER AND SHOWER, ENCLOSED UNIT, SYSTEM TM 10-4510-208-13&P		EA	1
5	N/A	REPAIR PARTS AND SPECIAL TOOLS LIST FORCE PROVIDER TM 10-5419-206-23P (located in TRICON 5B)		EA	1



**FORCE PROVIDER FUEL STORAGE AND DISTRIBUTION SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	7930-01-316-6008	ABSORBENT MATERIAL, OIL AND WATER DRIP PAN (located in TRICON 7B and 7C) (1JA49) 2410PP		EA	2
2	7930-00-269-1272	ABSORBENT, SHREDDED, (located in TRICON 7B and 7C) (58536) A-A-1979		CO	8
3	7240-01-337-5269	CAN, FUEL, MILITARY, PLASTIC, 5 GAL, OLIVE DRAB (ten located in TRICON 7B) (fifteen located in TRICON 7C) (97403) 13228E3325	FSN	EA	25
3	7240-01-337-5268	CAN, FUEL, MILITARY, PLASTIC, 5 GAL, SAND COLOR (ten located in TRICON 7B) (fifteen located in TRICON 7C) (97403) CID A-A-59592	FSQ	EA	25
4	4730-00-640-6156	CAP, DUST, 4 INCH, CAM-LOCK (located in TRICON 7B) (96906) MS 27028-17		EA	3
5		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 11A) (Part of Transportation and Storage Subsystem)		EA	3
6	8145-01-415-4827	CONTAINER, REUSABLE, BULK EQUIPMENT, HALF SIZE (located in TRICON 7B) (81337) 9-1-0140-2 (Part of Transportation and Storage Subsystem)		EA	2

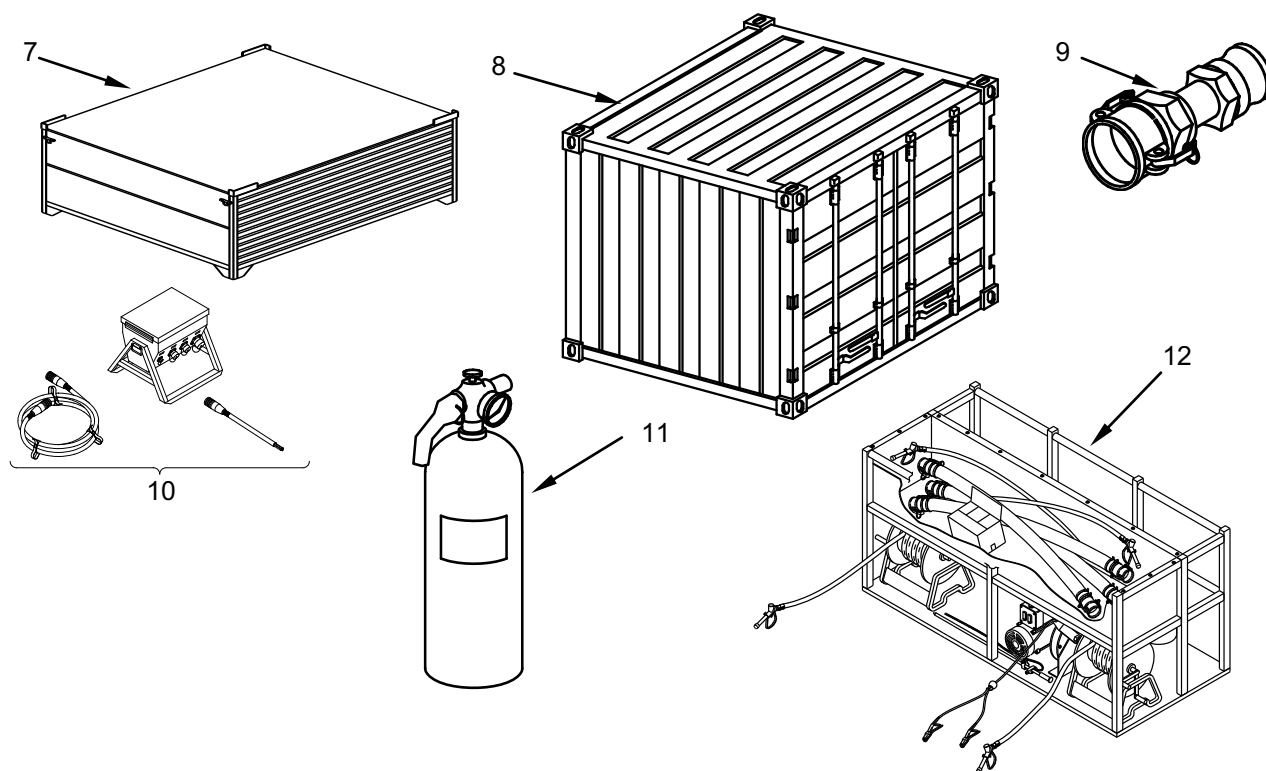


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
7	8145-01-415-4113	CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL (81337) 9-1-0142-1 (located in TRICON 11A) (Part of Transportation and Storage Subsystem)		EA	1
8	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) (TRICON 7B, 7C) (09PDO) BXTPCGATPD0003 – Green (Part of Transportation and Storage Subsystem)	FSN	EA	2
8	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) (TRICON 7B, 7C) (09PDO) BXTPCTATPD0003 – Tan (Part of Transportation and Storage Subsystem)	FSQ	EA	2
9	4730-00-203-1010	COUPLING HALF, QDISC, CAM-LOCK, 1 ½" FC X 1 ½" EXT. NPT (located in TRICON 7C) (24869) MS 27026-9		EA	2
10	6150-01-308-5671	ELECTRICAL DISTRIBUTION SYSTEM, PDISE M40, (located in TRICON 11C) 97403, TA 13229E6351		EA	1
11	4210-00-889-2492	FIRE EXTINGUISHER, DRY CHEMICAL TYPE I, CLASS 2, SIZE 20 (two located in TRICON 7B) (two located in TRICON 7C) (80244) A-A-393		EA	4
12		FORCE PROVIDER FUEL SYSTEM (located in TRICON 7B) (81337) 9-1-0561-1	FSN	EA	1
12		FORCE PROVIDER FUEL SYSTEM (located in TRICON 7B) (81337) 9-1-0561-2	FSQ	EA	1

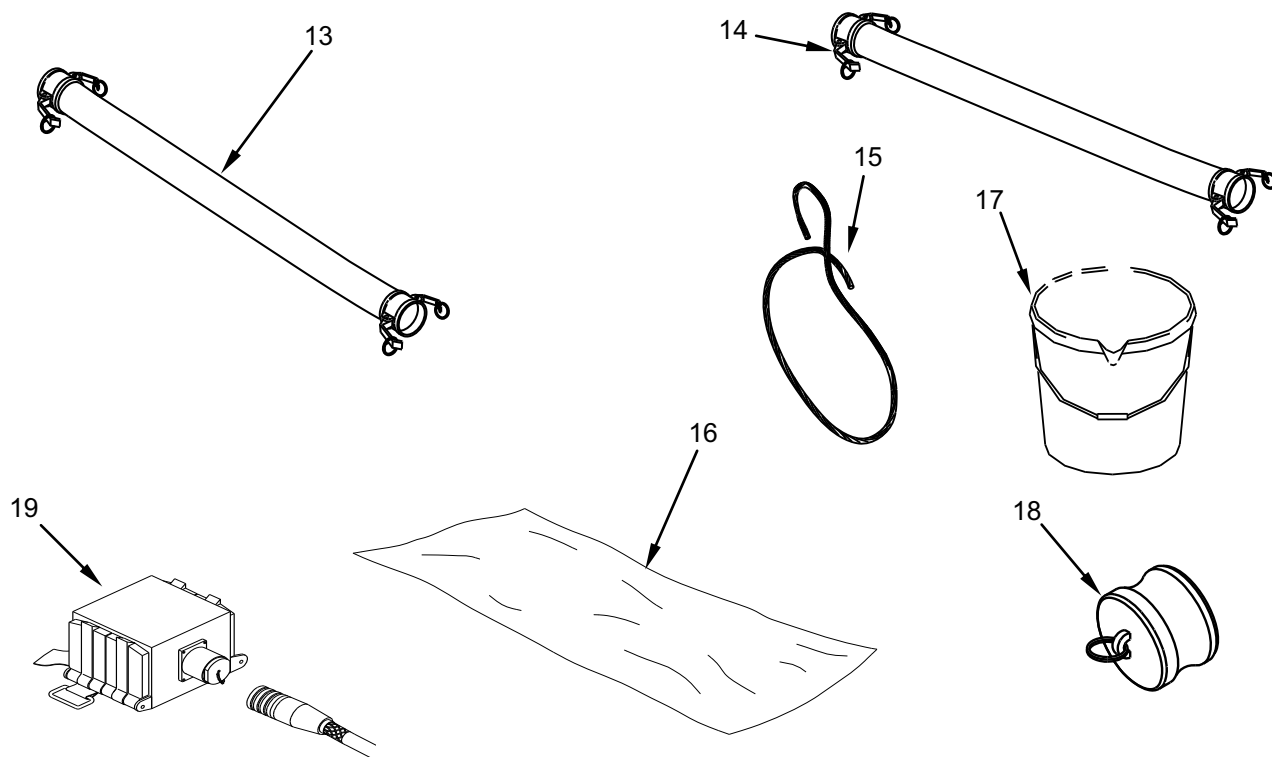


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
13	6150-01-308-5671	HOSE ASSEMBLY, FUEL, QDISC, CAM-LOCK, 2-In X 10-Ft, M x F (located in TRICON 7B) (81349) M320B061A0100A		EA	6
14	4720-00-229-0662	HOSE ASSEMBLY, NON-COLLAPSIBLE, 1 ½-In x 25-Ft, M x F (located in TRICON 7C) (81349) M370B051A0250B		EA	4
15	6150-01-392-4191	LEAD, ELECTRICAL (GROUNDING CABLE) (located in TRICON 7B) (97403) 13220E1127		EA	12
16	5430-01-237-3659	LINER, BERM, ASSEMBLY, SIZE 2 (two located in TRICON 7B) (two located in TRICON 7C) (N/A) M53081-2		EA	4
17	8110-01-143-4864	PAIL, SHIPPING AND STORAGE, 5 GALLON WITH LID (located in TRICON 7B) (05668) C-6274-20		EA	4
18	4730-00-640-6188	PLUG, DUST, 4 INCH, CAM-LOCK (located in TRICON 7B) (03776) MS 27029-17		EA	3
19	6150-01-251-9125	RECEPTACLE, BOX (located in TRICON 11C) 97403, 13226E7040		EA	1

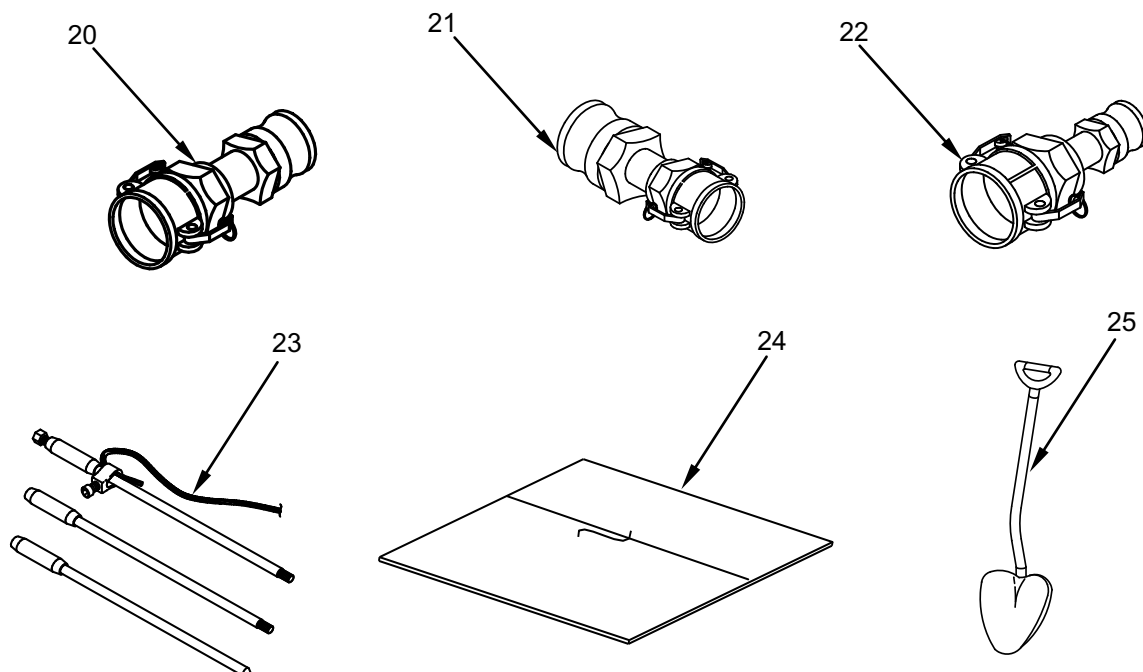


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
20	4730-00-951-3295	REDUCER, QDISC, CAM-LOCK, 2" FC X 1-1 1/2" MC (two located in TRICON 7B) (two located in TRICON 7C) (96906) MS-49000-5		EA	4
21	4730-01-186-0821	REDUCER, QDISC, CAM-LOCK, 2" FC X 4" MC, (two located in TRICON 7B) (two located in TRICON 7C) (96906) MS 49000-19		EA	4
22	4730-01-064-0560	REDUCER, QDISC, CAM-LOCK, 4" FC X 2" MC (two located in TRICON 7B) (two located in TRICON 7C) (96906) MS-49000-17		EA	4
23	5975-00-878-3791	ROD, GROUND, SECTIONAL, TYPE III, CLASS B, WITH ATTACHMENTS (located in TRICON 7B) (81348) W-R-550A		EA	8
24	8145-01-503-4404	SHELF, SHIPPING AND STORAGE, 09PD1, 1041A, (located in TRICON 11A) (Part of Transportation and Storage Subsystem)		EA	4
25	5120-00-293-3336	SHOVEL, ROUND POINT, D HANDLE (one each located in TRICON 7B and 7C) (80244) TYPE IV, CLASS A, STYLE I		EA	2

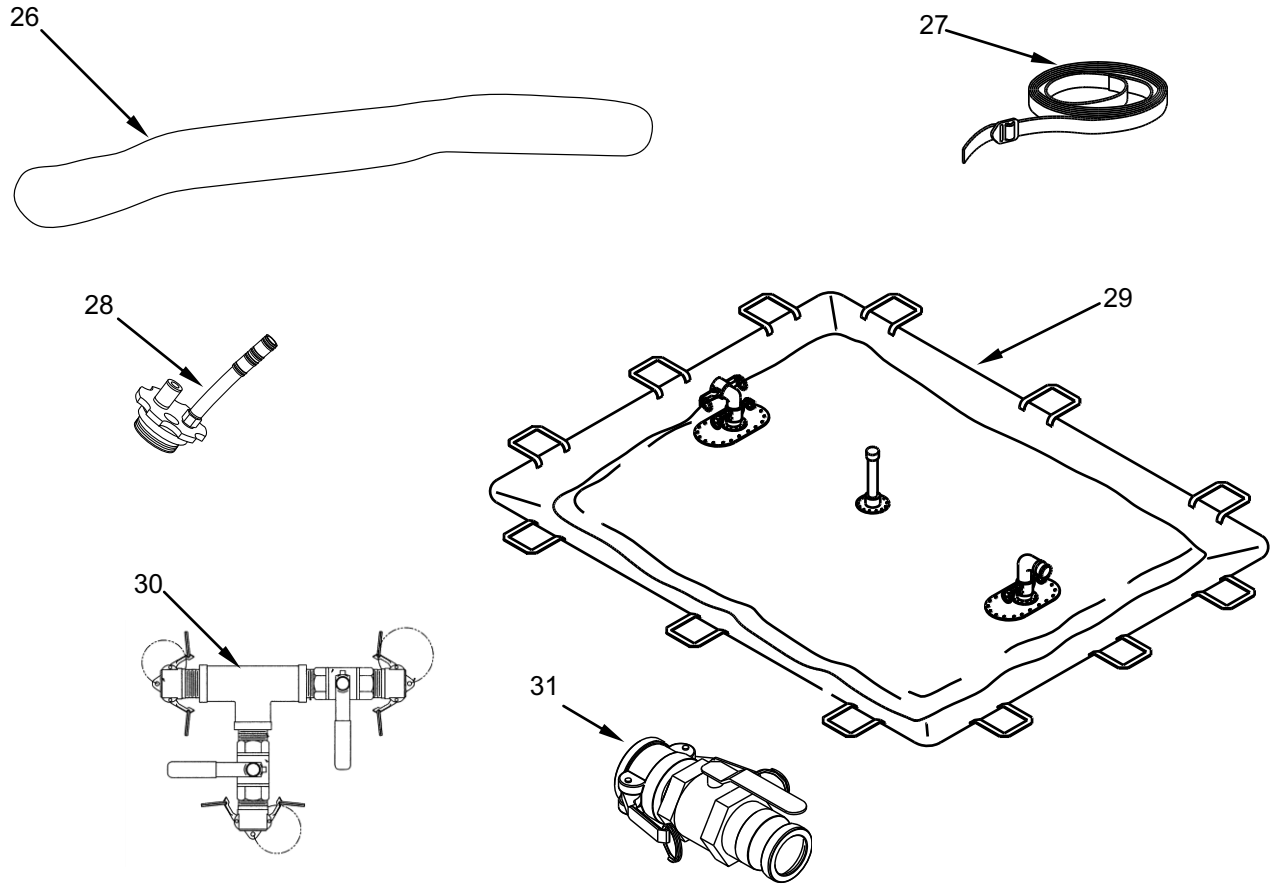
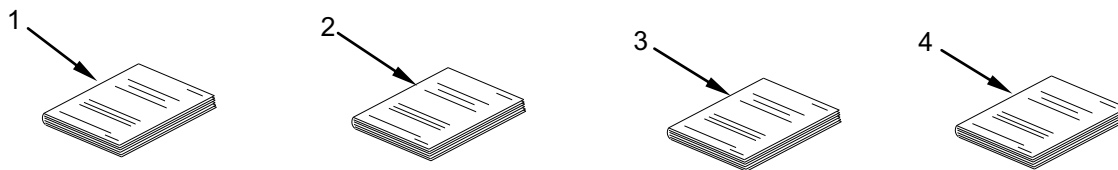


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
26	9330-01-281-0337	SORBENT, OIL BOOM, 8 IN X 10 FT, PACK OF 4 (one each located in TRICON 7B and 7C) (58536) A-A-1282 / A1282-I-2		PK	2
27	5340-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN (located in TRICON 11A) (98313) FDC5770-5 (Part of Transportation and Storage Subsystem)		EA	4
28	7240-00-177-6154	SPOUT, FUEL CAN, FLEXIBLE (ten located in TRICON 7B) (fifteen located in TRICON 7C) (97403) TA 13219E2600		EA	25
29	5430-01-414-9251	TANK, FABRIC, COLLAPSIBLE, 10,000 GALLON, FUEL WITH ACCESSORIES (located in TRICON 7B) (66618) BA91-141A		EA	2
30		TEE ASSEMBLY, 4", FUEL, FC X FC X MC (located in TRICON 7B) (81337) 9-1-0653		EA	1
31	4820-01-210-5605	VALVE ASSEMBLY, BALL, QDISC, 4", MC X FC (six located in TRICON 7B) (two located in TRICON 7C) (97403) 13226E8282		EA	8

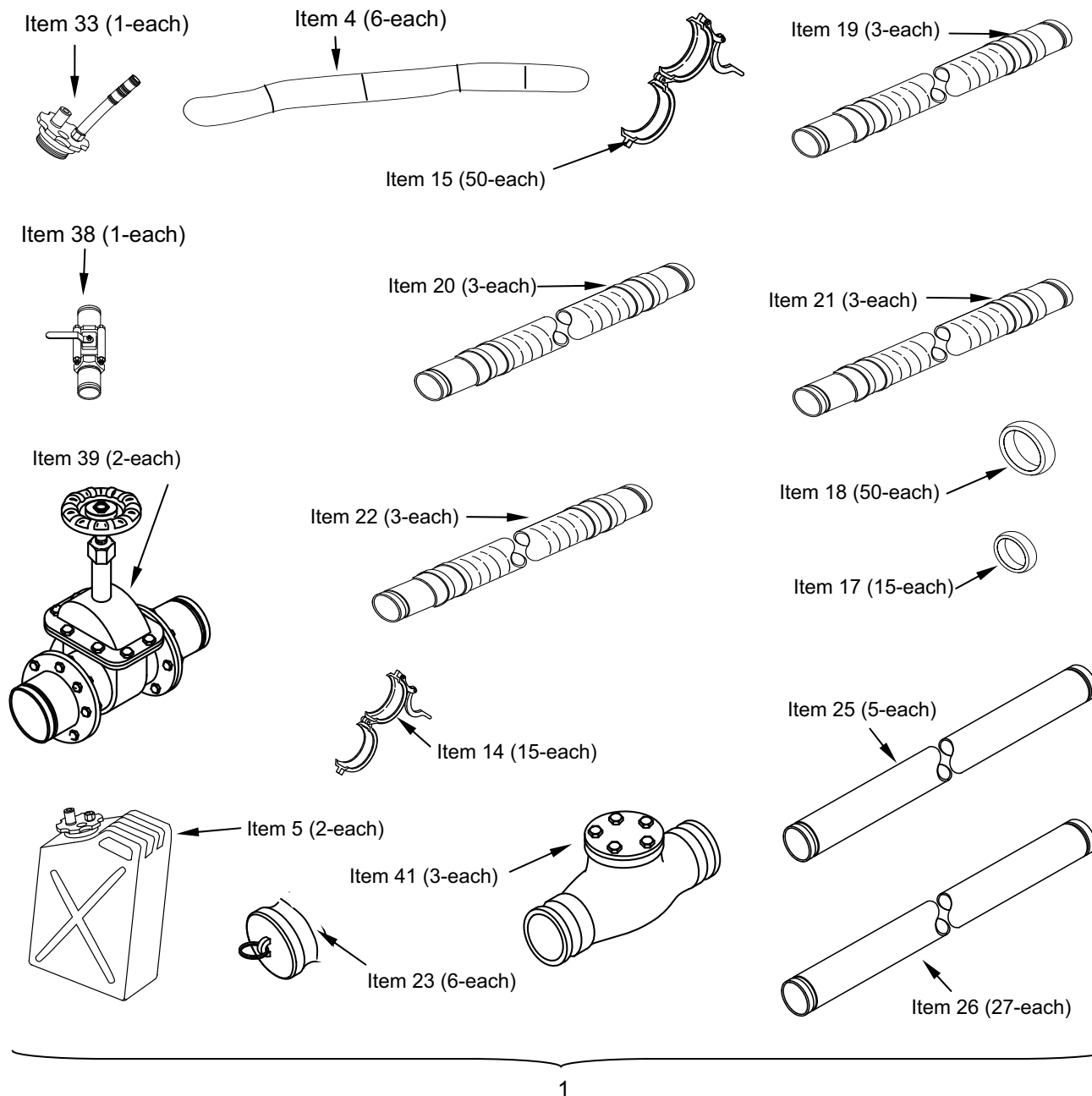


**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR AND UNIT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) TANK FABRIC COLLAPSIBLE, FUEL STORAGE 3,000 GALLON MODEL WTM3KF/MIL-T-52983B; 10,000 GALLON, MODEL BA91-141A/FCE574-81-1-A; SC5430-97CLE01; 20,000 GALLON MODEL BA91-140 BA91-140A; 50,000 GALLON MODEL PD52983-50/M52983-50 (Packed with tank located in TRICON 7B) TM 10-5430-238-12&P		EA	2
2	N/A	OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FORCE PROVIDER TM 10-5419-206-13 (located in TRICON 7B)		EA	1
3	N/A	REPAIR PARTS AND SPECIAL TOOLS LIST FORCE PROVIDER TM 10-5419-206-23P (located in TRICON 7B)		EA	1
4	N/A	UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR TANK, FABRIC, COLLAPSIBLE, POL, 3K, 10K, 20K 50K, 5K BBL (two each located in TRICON 7B and 7C) TM 5-5430-219-23P		EA	4



**FORCE PROVIDER WASTEWATER COLLECTION SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	3835-01-433-4195	ACCESSORY KIT, WASTE WATER COLLECTION SYSTEM (located in TRICON 8B) (97403) 13230E5768		KT	1

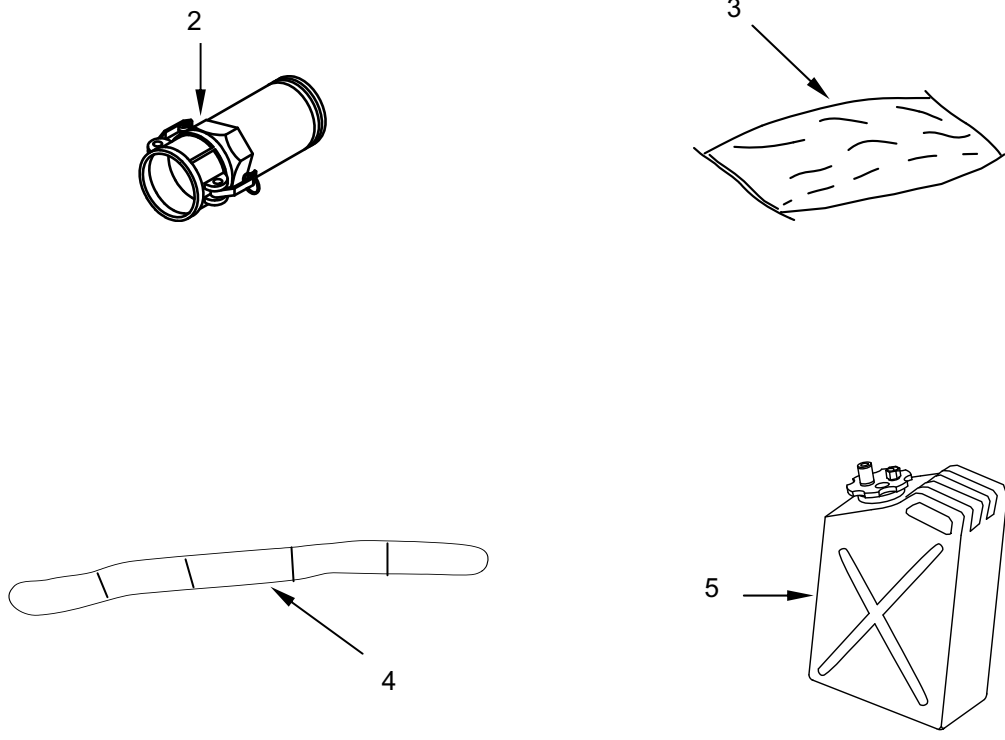


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
2		ADAPTER ASSEMBLY, FEMALE CAM-LOCK X GROOVED PIPE, 4-IN, WASTE WATER (located in TRICON 8C) (97403) 13230E5766		EA	2
3	8105-00-935-7101	BAG, SAND, ACRYLIC, GREEN, QTY 100 (located in TRICON 8D) (58536) A-A-52140A-1	FSN	HD	22
3	8105-01-331-3704	BAG, SAND, ACRYLIC, TAN, QTY 100 (located in TRICON 8D) (58536) A-A-52140A-2	FSQ	HD	22
4	9330-01-281-8337	BOOM, ABSORBENT, 3" DIA. X 48" LONG (located in TRICON 8B) (97403) 13229E7254-2,		EA	6
5	7240-01-337-5269	CAN, FUEL, MILITARY, PLASTIC, 5GL, OLIVE DRAB (located in TRICON 8B) (97403) 13228E3325	FSN	EA	2
5	7240-01-337-5268	CAN, FUEL, MILITARY, PLASTIC, 5GL, SAND COLOR (located in TRICON 8B) (97403) CID A-A-59592	FSQ	EA	2

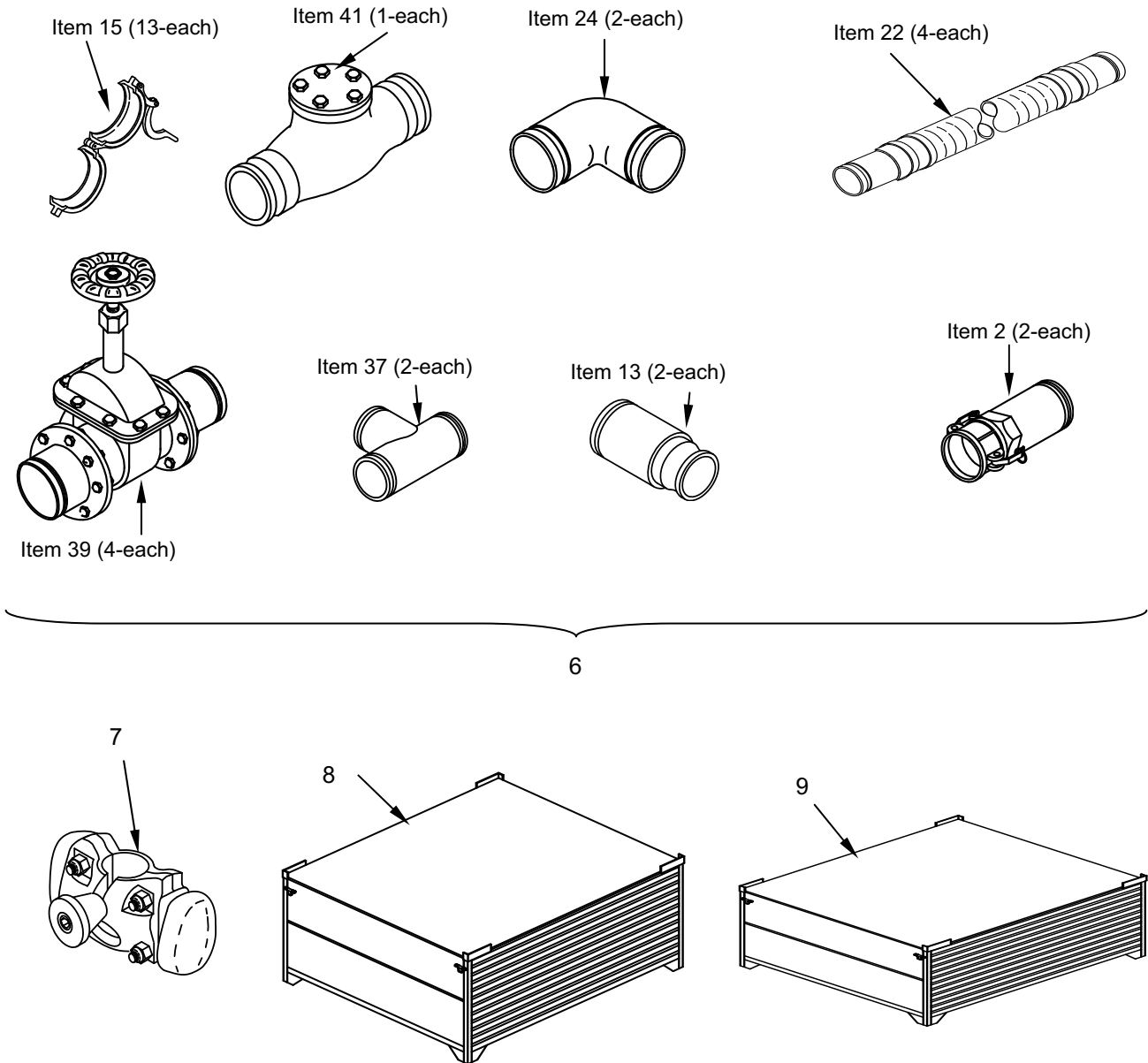


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
6	3835-01-433-4193	CONNECTION ASSEMBLY, 20,000 GALLON TANK, WASTE WATER (located in TRICON 8C) (97403) 13230E5755		KT	1
7		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 11A) (Part of Transportation and Storage Subsystem)		EA	9
8	8145-01-415-4116	CONTAINER, REUSABLE, BULK EQUIPMENT, MEDIUM (located in TRICON 8C) (81337) 9-1-0142		EA	2
9	8145-01-415-7267	CONTAINER, REUSABLE, BULK HANDLING EQUIPMENT, COMMERCIAL (located in TRICON 8B) (81337) 9-1-0141		EA	1

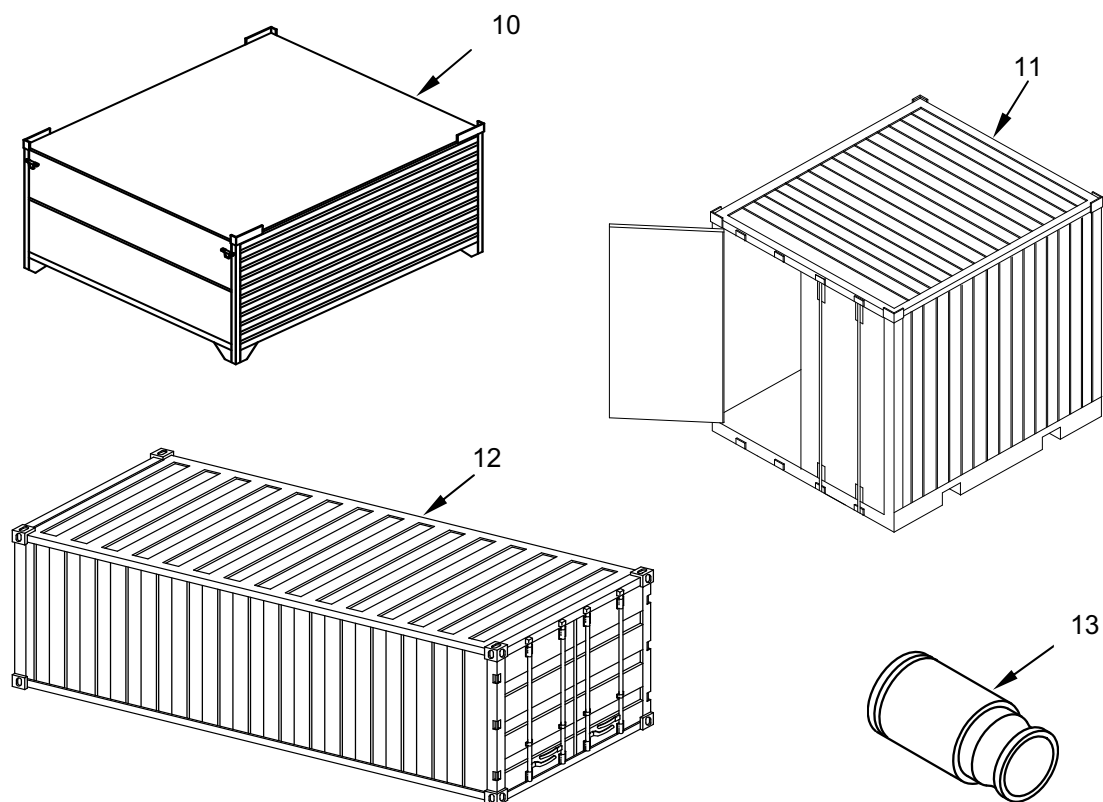


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
10	8145-01-415-4821	CONTAINER, REUSABLE, BULK HANDLING, HALF SIZE, GENERAL PURPOSE (located in TRICON 8B) (81337) 9-1-0140-1		EA	2
11	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS (TRICON 8B, 8C and 8D) (09PDO) BXTPCGATPD0003 – Green BXPCTATPD0003 – Tan		EA	3
12	8115-01-488-6545	CONTAINER, SHIPPING, ISO, 20', END OPENING (ISO 8A) (14153) A-A-52032A TYPE I		EA	1
13	4730-01-237-0201	COUPLING HALF, QDISC, CAM-LOCKING, NIPPLE ADAPTER, MALE X EXTERNAL GROOVED PIPE (located in TRICON 8C) (96906) MS 70100-1		EA	2

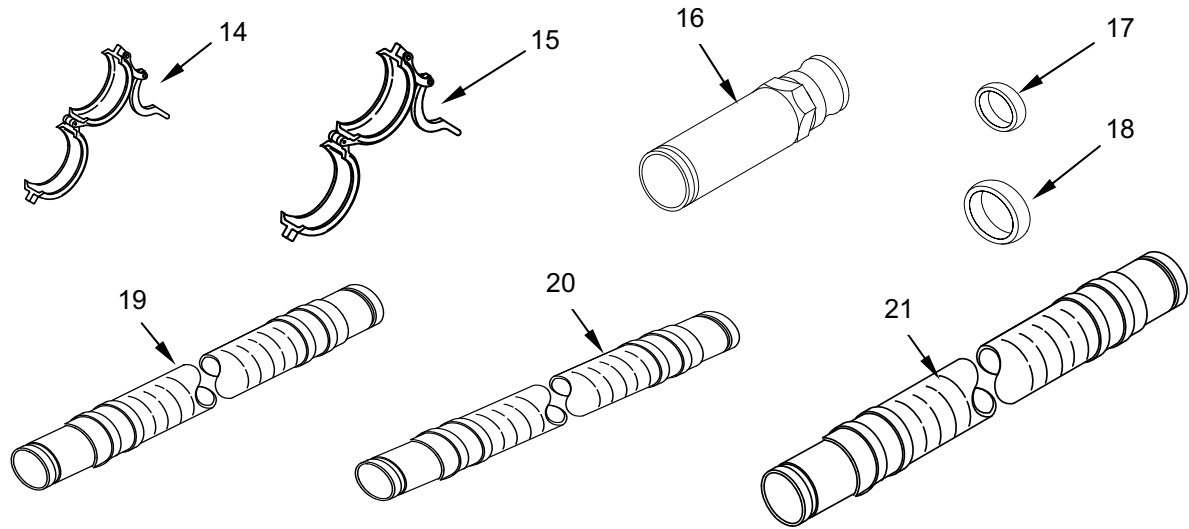


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
14	4730-01-363-8061	COUPLING, CLAMP, GROOVED END PIPE, 2-1/2" (located in TRICON 8B) (97403) 13230E5758-5		EA	43
15	4730-01-415-7250	COUPLING, CLAMP, GROOVED END PIPE, 4" (located in TRICON 8B) (97403) 13230E5758-7		EA	140
16		COUPLING, MALE NPT X GROOVED PIPE, 2-1/2" (located in TRICON 8B) (81349) M10388-A07AF1C4A		EA	7
17		GASKET, COUPLING, CLAMP, PIPE, 2-1/2" (located in TRICON 8B) (81349) G024077LT0		EA	15
18	5330-01-226-8214	GASKET, COUPLING, CLAMP, PIPE, 4" (located in TRICON 8B) (81349) G040077LT0,		EA	50
19		HOSE ASSEMBLY, GROOVED ENDS, 2-1/2" X 10-FT (located in TRICON 8B) (97403) 13230E5761-1		FT	12
20		HOSE ASSEMBLY, GROOVED ENDS, 2-1/2" X 20-FT (located in TRICON 8B) (97403) 13230E5761-2		FT	10
21	4720-01-415-7252	HOSE ASSEMBLY, SUCTION, GROOVED ENDS, WASTE WATER, 4" X 10' (located in ISO 8A) (97403) 13230E5761-3		FT	18

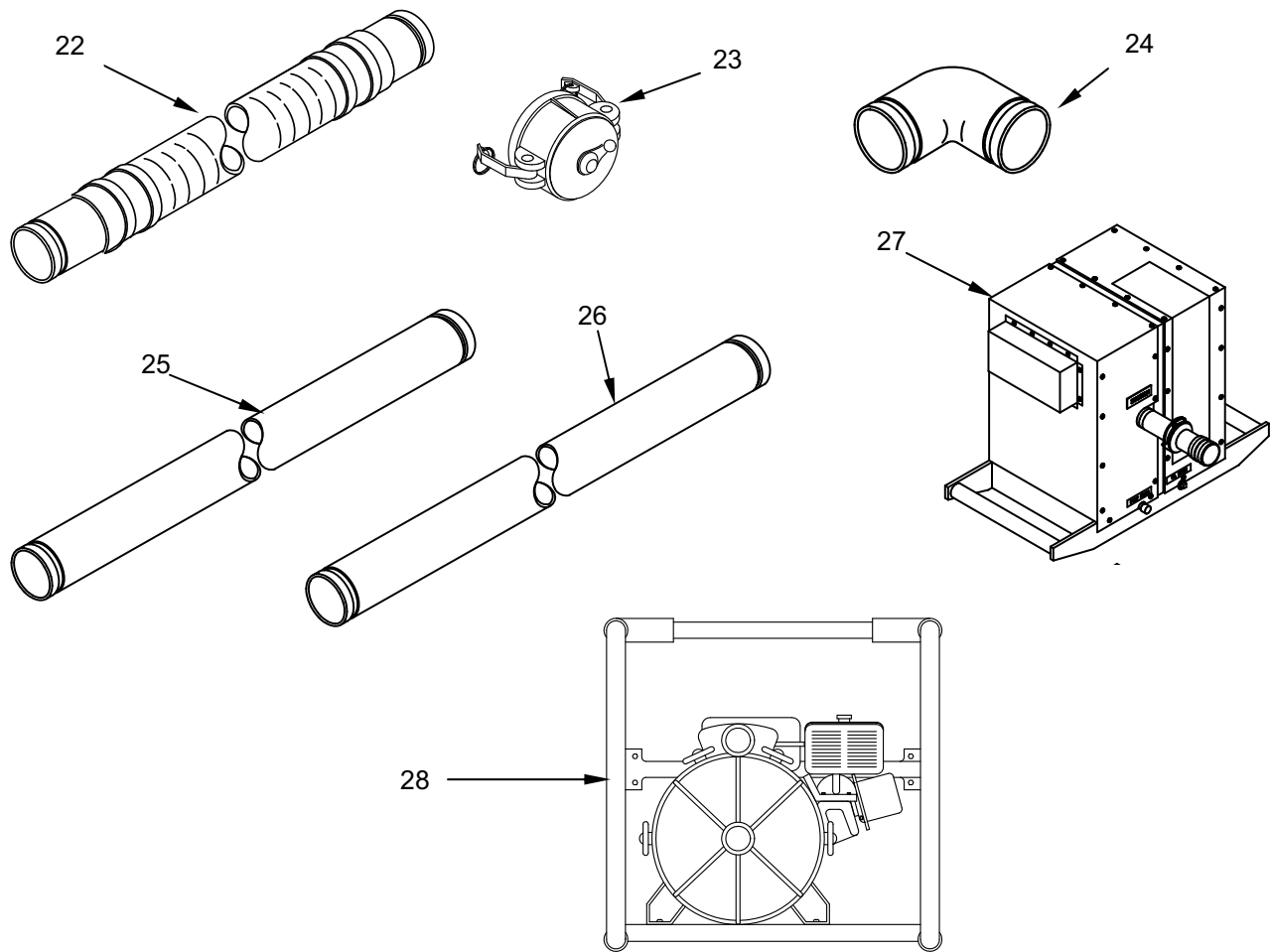


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
22		HOSE ASSEMBLY, SUCTION, GROOVED ENDS, WASTE WATER, 4" X 20' (located in ISO 8A) (97403) 13230E5761-4		FT	3
23	4730-01-415-7977	PIPE FITTING, CAP, 4 IN (located in TRICON 8B) (81349) M0388-A05A11C		EA	7
24	4730-01-415-6423	PIPE FITTING, ELBOW, 90°, 4", ALUMINUM, GROOVED, COLOR – BLACK (located in TRICON 8B) (81337) M10388-A11AI		EA	2
25	4710-01-415-7254	PIPE, PLASTIC, GROOVED ENDS, 4" ID, 120" (located in ISO 8A) (97403) 13230E5767-1		FT	13
26	4710-01-415-7259	PIPE, PLASTIC, GROOVED ENDS, 4" ID, 228" (located in ISO 8A) (97403) 13230E5767-2		FT	102
27	4320-01-357-1930	PUMP ASSEMBLY, 125 GPM, WASTE WATER (located in TRICON 8B) (97403) 13230E5757			2
28		PUMP, TRASH, CENTRIFUGAL, SELF PRIME, DIESEL (located in TRICON 8B) (25567) 2S5YR		EA	2

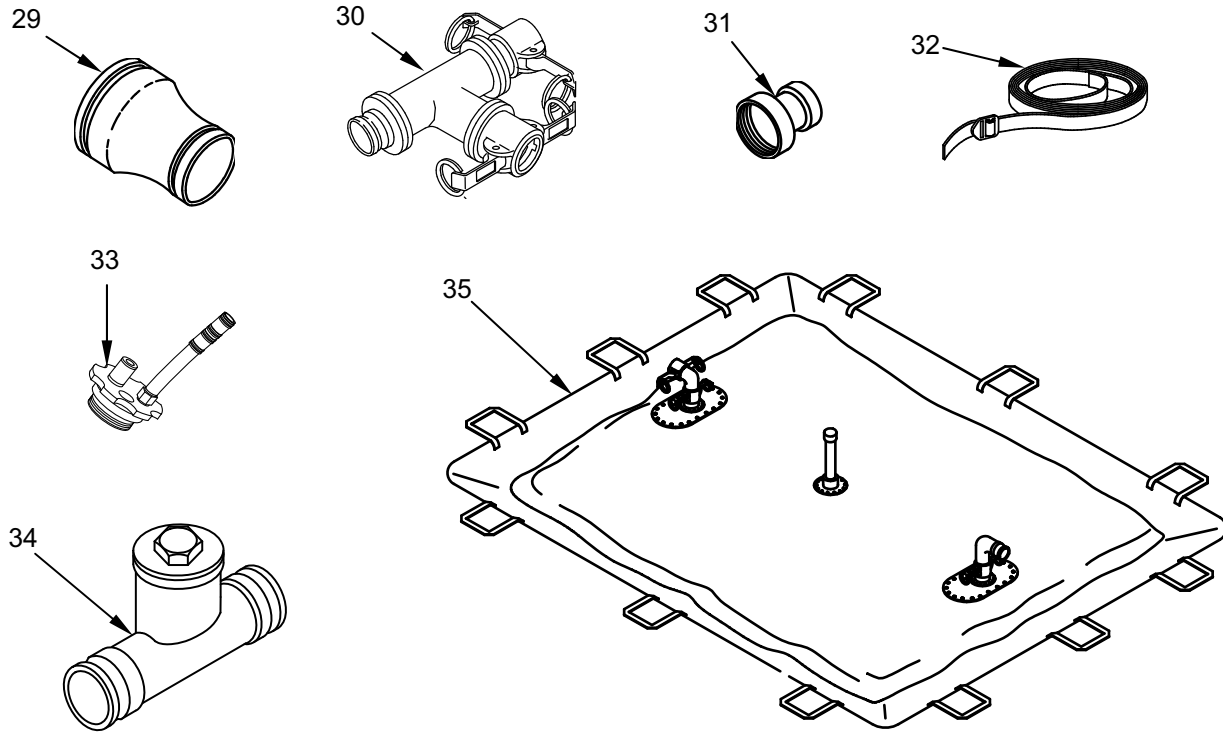


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
29		REDUCER, 4 IN X 2-1/2" GROOVED ENDS (located in TRICON 8B) (97403) 13230E5762-1		EA	1
30		REDUCER, LATERAL, GROOVED ENDS, 4" X 4" X 2-1/2" (located in TRICON 8B) (97403) 13230E5770,		EA	7
31		REDUCING BUSHING, 3" X 2-1/2" (located in TRICON 8B) (81349) M52618/8-T840X6C		EA	7
32	5340-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN (seven located in ISO 8A) (five located in TRICON 8B) (two located in TRICON 8C (six located in TRICON 8D) (98313) FDC5770-5		EA	20
33	7240-00-177-6154	SPOUT, FUEL CAN, FLEXIBLE (located in TRICON 8B) (97403) TA 13219E2600		EA	1
34		STRAINER, TEE TYPE, GROOVED ENDS, 4" (located in TRICON 8B) (97403) 13230E5763,		EA	1
35	5430-01-434-0765	TANK, FABRIC COLLAPSIBLE, 20,000 GALLON WASTE WATER WITH GROUND CLOTH AND ACCESSORIES (located in TRICON 8C) (81337) LP/P DES 2-96, TYPE II		EA	3

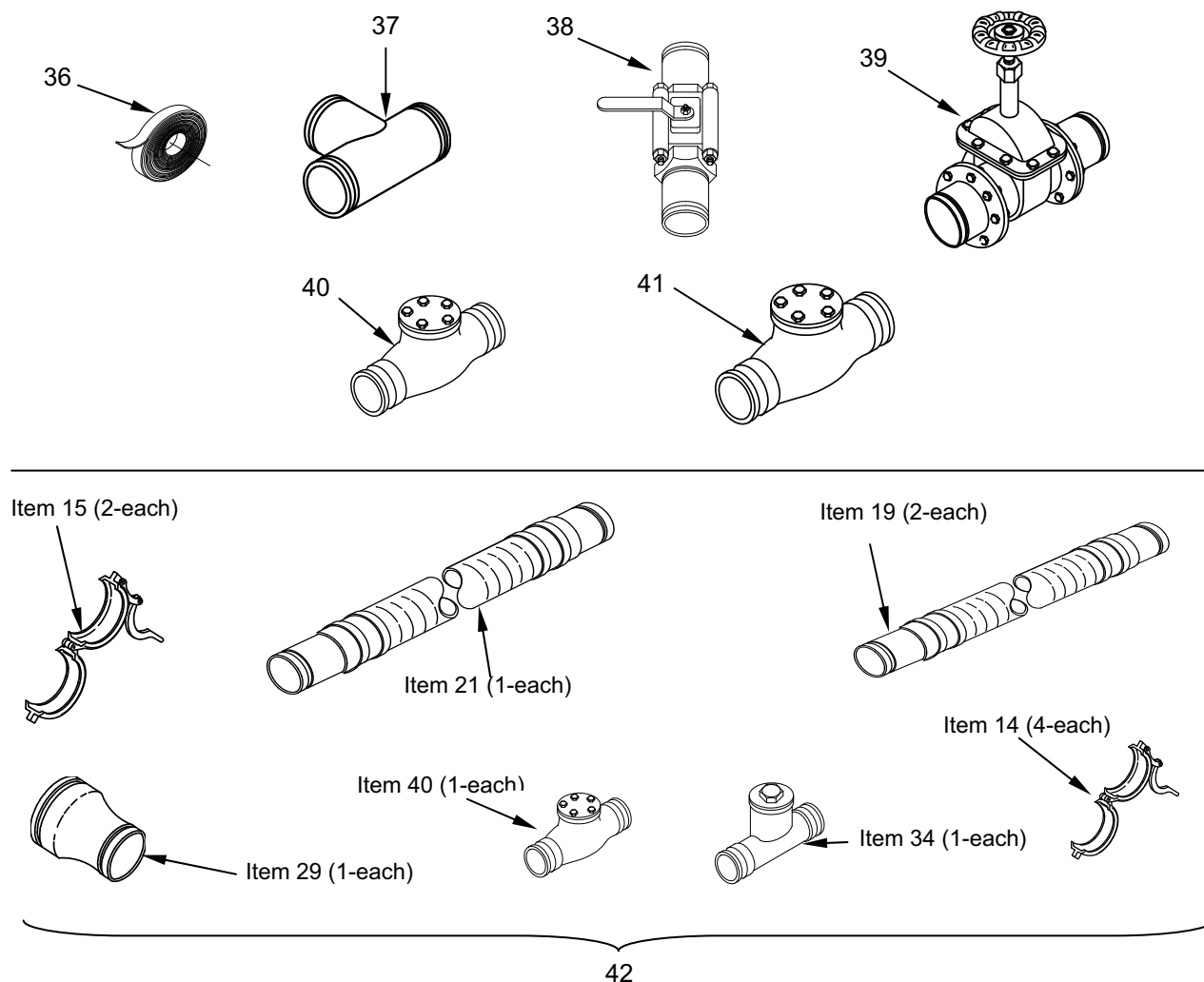


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
36	8030-00-889-3535	TAPE ANTISEIZE, SIZE 2, 1/2-IN WIDE X 260-INCH LONG (located in TRICON 8B) (80244) MIL-T-27730 S22		EA	2
37		TEE, GROOVED ENDS, 4 IN (located in TRICON 8C) (N/A) M10388-A29DT			2
38		VALVE ASSEMBLY, BALL, GROOVED PIPE, 2 1/2 IN (located in TRICON 8B) (97403) 13230E5752-1		EA	1
39		VALVE ASSEMBLY, GATE, GROOVED PIPE, 4-IN, WASTE WATER (two located in TRICON 8B) (four located in TRICON 8C) (97403) 13230E5764		EA	6
40		VALVE, CHECK, GROOVED ENDS, WASTE WATER, 2 1/2" IN (located in TRICON 8B) (97403) 13230E5760-1		EA	2
41		VALVE, CHECK, GROOVED ENDS, WASTE WATER, 4 IN (located in TRICON 8B) (97403) 13230E5760-2		EA	2
42	3835-01-433-4194	WASTE WATER CONNECTION ASSEMBLY, 125 GPM PUMP (located in TRICON 8B) (97403) 13230E5754		KT	2



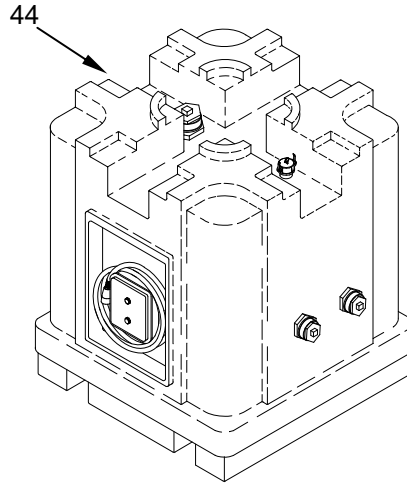
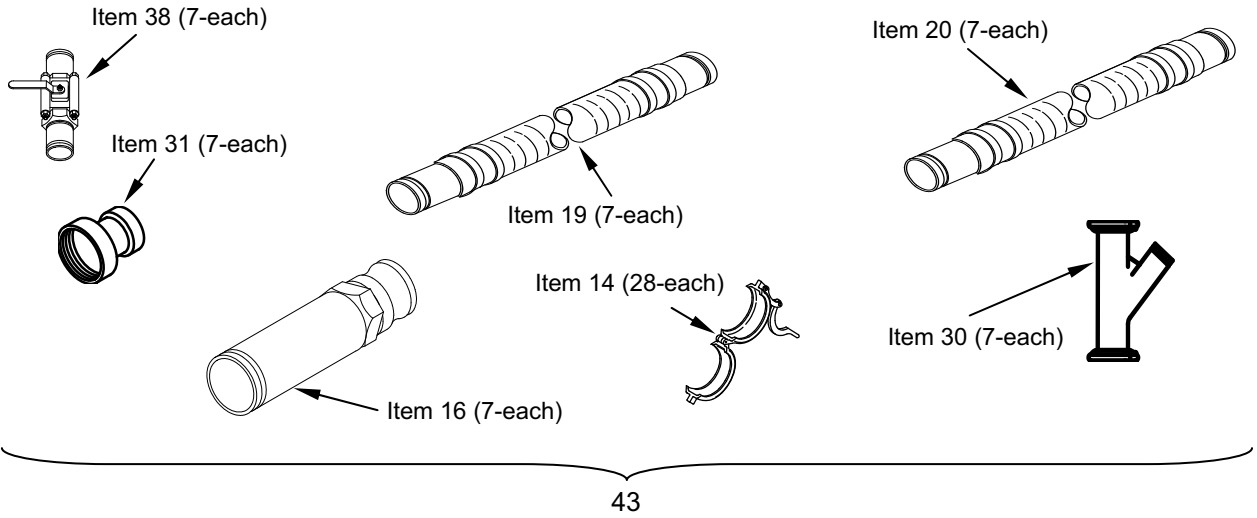


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
43	3835-01-433-4191	WASTE WATER CONNECTION ASSEMBLY, FACILITIES (located in TRICON 8B) (97403) 13230E5756		KT	7
44	4630-01-505-3746	WASTE WATER TRANSFER SYSTEM (located in TRICON 8D) (81337) 9-1-0527		EA	2

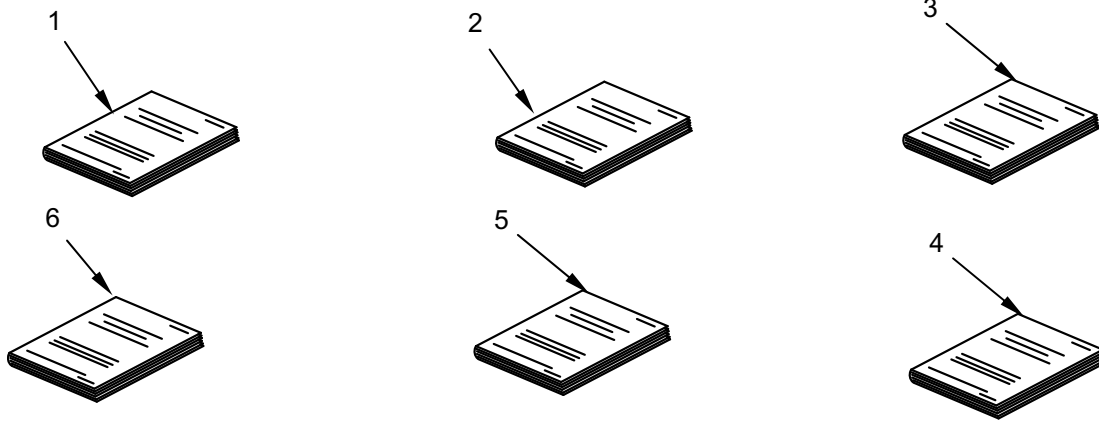
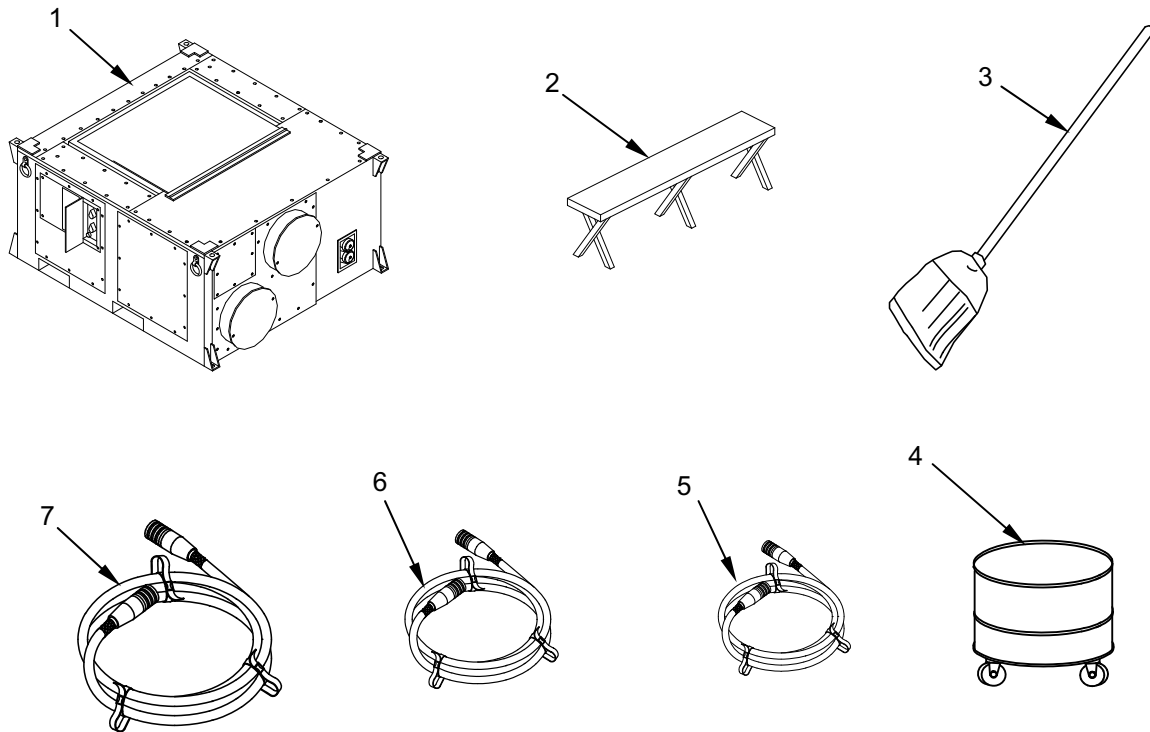


Table 2. Basic Issue Items List.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR, UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FOR PUMP UNIT, CENTRIFUGAL, DIESEL- DRIVEN, SELF PRIMING/125 GPM WATER CLASS III (two located in TRICON 8B) TM 10-4320-325-14		EA	2
2	N/A	OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FORCE PROVIDER TM 10-5419-206-13 (located in TRICON 8B)		EA	1
3	N/A	OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR SEWAGE EJECTION PUMP (located in TRICON 8D) TM 10-4630-206-13&P		EA	1
4	N/A	OPERATOR'S, UNIT AND INTERMEDIATE DIRECT SUPPORT MAINTENANCE MANUAL 5K BBL GALLON COLLAPSIBLE FABRIC TANK, 50,000 GALLON COLLAPSIBLE FABRIC TANK, 20,000 GALLON COLLAPSIBLE FABRIC TANK, 10,000 GALLON COLLAPSIBLE FABRIC TANK, 3,000 GALLON COLLAPSIBLE FABRIC TANK TM 5-5430-219-13		EA	1
5	N/A	REPAIR PARTS AND SPECIAL TOOLS LIST FORCE PROVIDER TM 10-5419-206-23P (located in TRICON 8B)		EA	1
6	N/A	UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST PUMP UNIT, CENTRIFUGAL, DIESEL-DRIVEN, SELF PRIMING, 125 GPM WATER CLASS III (two located in TRICON 8B) TM 10-4320-325-24P		EA	2

**FORCE PROVIDER FOOD SERVICE SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	4120-01-432-6408 OR MAY RECEIVE 4120-01-413-7835	AIR CONDITIONER 54 K BTUH, 208V, 3 PHASE, 50/60 HZ, HORIZONTAL (located in TRICON 10E) (97403) MIL-A-0083216; TA 13230E3500		EA	4
2	7110-01-415-6896	BENCH, 6 FT (four located in TRICON 10D) (eleven located in TRICON 10G) (four located in TRICON 10J) (81337) 9-1-0187		EA	30
3	7920-00-291-8305	BROOM, UPRIGHT (located in TRICON 10C) (80244) H-B-0051 TYPE 2		EA	5
4	7920-00-926-5243	BUCKET, MOP, STEEL, OVAL, 16 QUART, W/ CASTERS (located in TRICON 10C) (81348) A-A-262		EA	1
5	6150-01-413-2234	CABLE ASSEMBLY, 60 A, CLASS L, FOR EQUIPMENT INSTALLATION (located in TRICON 10I) (81337) 9-1-0178		EA	2
6	6150-01-256-6304	CABLE ASSEMBLY, POWER, 100 A, 50' (located in TRICON 10G) (97403) 13226E7024		EA	2
7	6150-01-220-5588	CABLE ASSEMBLY, POWER, 60 A, 100 FT LONG (six located in TRICON 10F) (eight located in TRICON 10G) (six located in TRICON 10K) (four located in TRICON 10L) (81349) M29184/3-02		EA	32

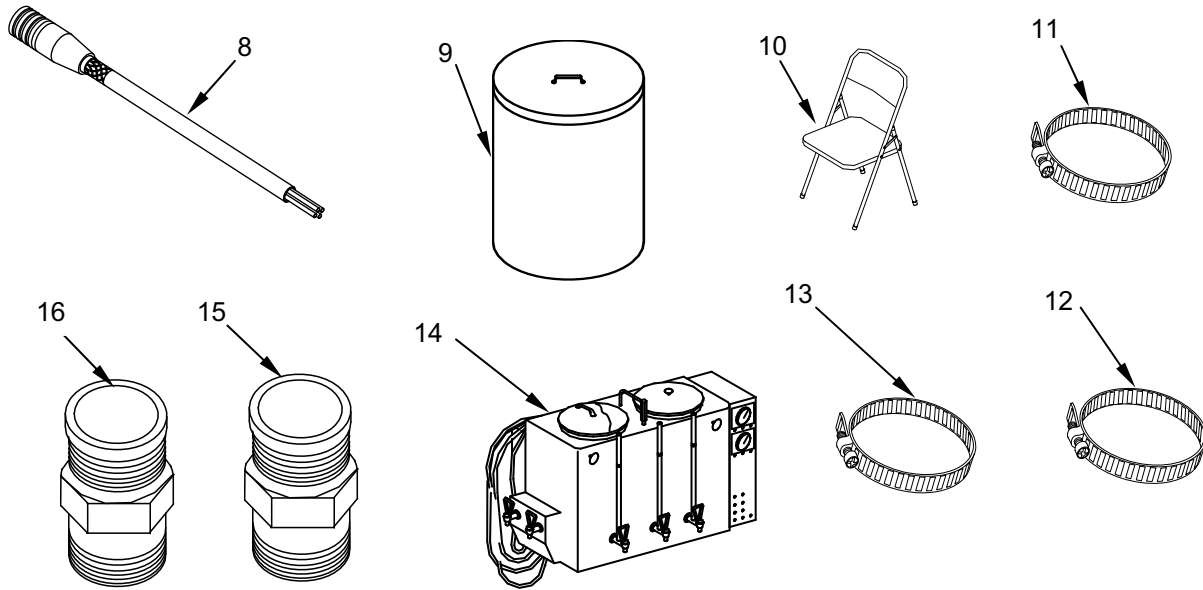


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
8	6150-01-256-6300	CABLE, PIGTAIL, 100 A, 4' (located in TRICON 10G) (97403) 13226E7020		EA	1
9	7240-00-160-0440	CAN, ASH AND GARBAGE, 32 GALLON, STEEL, GALVANIZED (located in TRICON 10C) (58536) A-A-1069		EA	11
10	7105-00-269-8463	CHAIR, FOLDING, STEEL (located in TRICON 10E) (81349) AA-C-291; TYPE 1, CLASS 1		EA	28
11	4730-01-479-1934	CLAMP, HOSE , LOW PRESSURE, TYPE F SAE #10 (located in TRICON 10D) (39428) 5416K33		EA	25
12	4730-00-908-3194	CLAMP, HOSE, LOW PRESSURE TYPE F SAE #24, (located in TRICON 10D) (96906) MS 35842-12		EA	24
13	4730-00-908-3193	CLAMP, HOSE, LOW PRESSURE, TYPE F SAE #12, (located in TRICON 10D) (96906) MS 35842-11		EA	24
14	7310-01-374-5832	COFFEE URN, SINGLE, 6 GALLON (located in TRICON 10G) (02594) 7416E(208/60/3)		EA	1
15		COMPRESSION TUBE FITTING, 1/2-IN NPTF X 1/2-IN TUBE (located in TRICON 10D) (39428) 50915K228		EA	1
16		COMPRESSION TUBE FITTING, 3/8-IN NPTF X 1/2-IN TUBE (located in TRICON 10D) (39428) 50915K225		EA	1

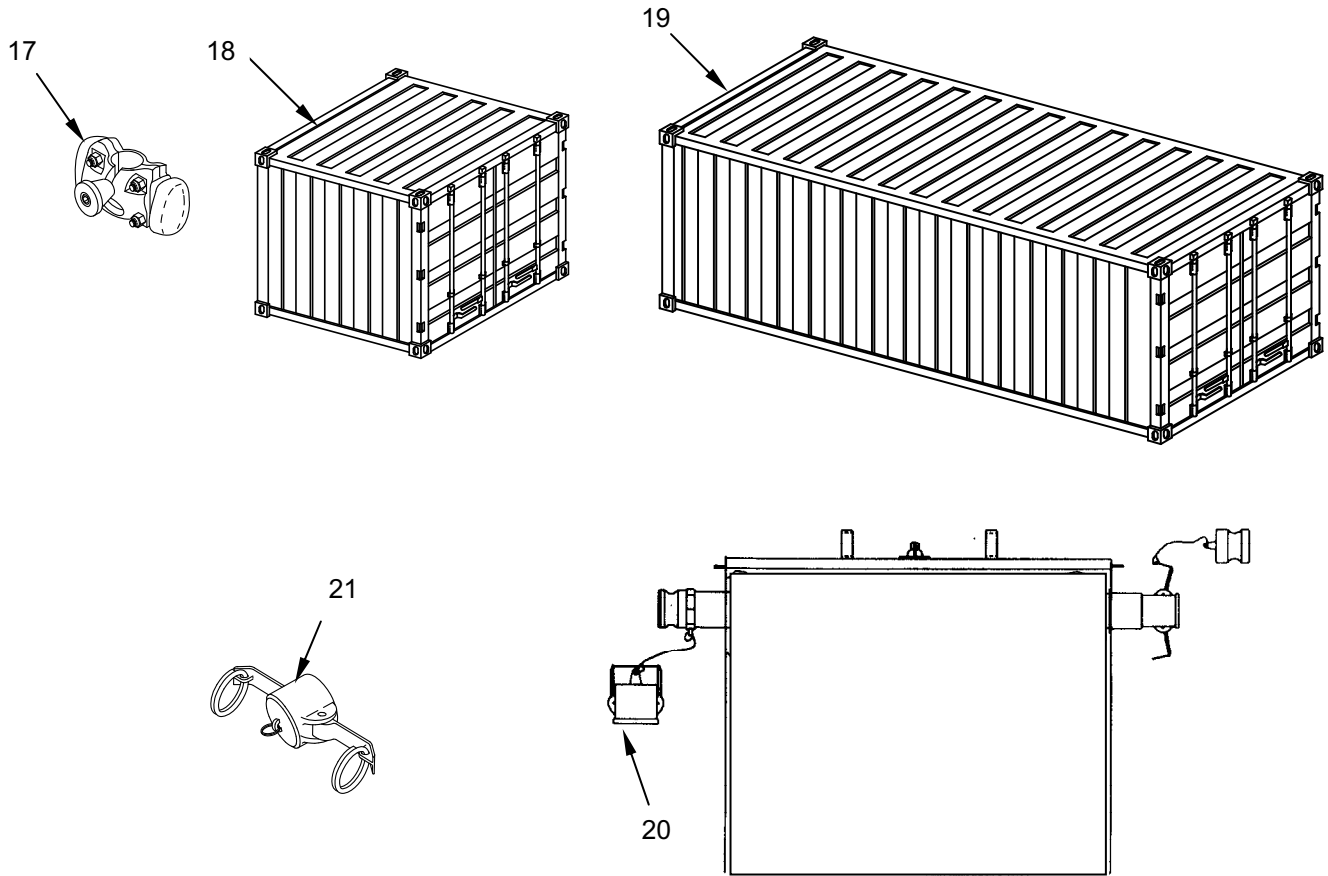


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
17		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 10C) (Part of Transportation and Storage Subsystem)		EA	
18	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) WITH CONNECTORS (TRICON 10A, 10C, 10D, 10E, 10F, 10G, 10I, 10J, 10K, 10L) (09PDO) BXTPCGATPD0003 – Green BXPCTATPD0003 – Tan		EA	10
19	8145-01-488-6545	CONTAINER, SHIPPING, ISO, 20', END OPENING (ISO 10A) (81349) A-A-52034A TYI, TYPE I		EA	1
20		COUPLING HALF, QDISC, CAM LOCKING CAP, TYPE IX, BRASS 1¼-IN (located in TRICON 10J) (96906) MS 27028-8		EA	2
21	4730-00-649-9100	COUPLING HALF, QDISC, CAM LOCKING CAP, TYPE IX, BRASS, 2-IN, AL (located in TRICON 10J) (96906) MS 27028-11		EA	2

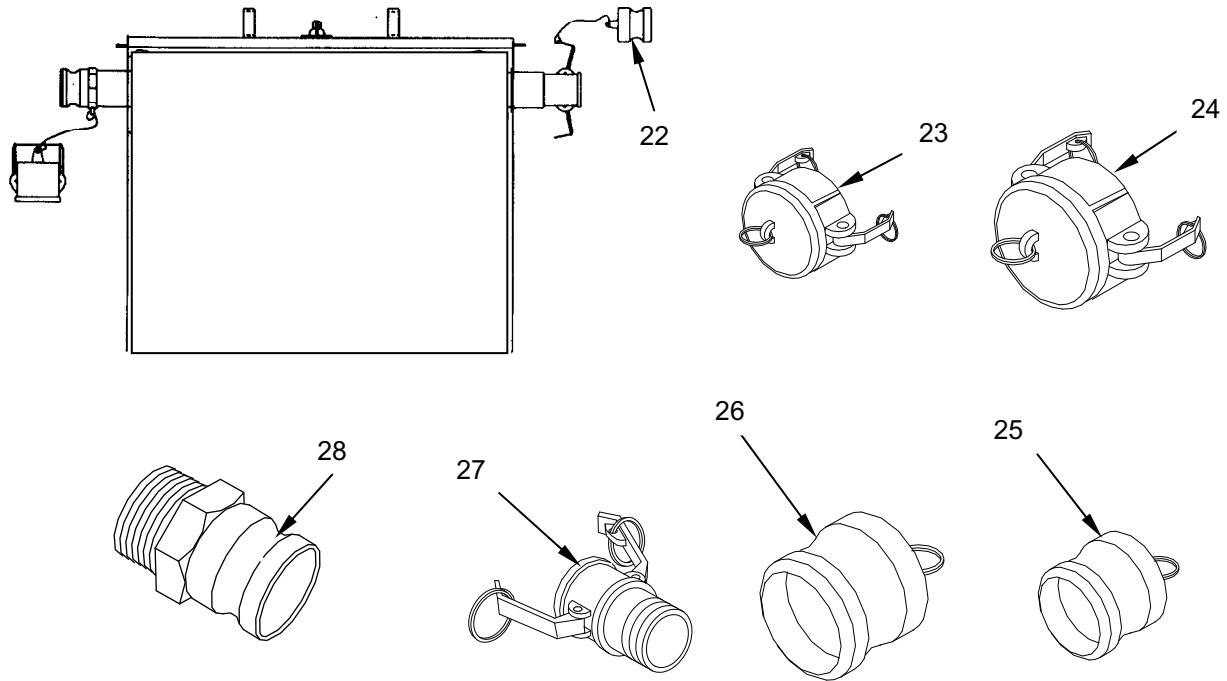


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
22	4730-01-466-2790	COUPLING HALF, QDISC, CAM LOCKING PLUG, 2-IN, TYPE X, BRASS (located in TRICON 10J) (96906) MS270-29-12		EA	2
23	4730-01-233-0796	COUPLING HALF, QDISC, CAM LOCKING TYPE, DUST CAP, ½-IN (located in TRICON 10D) MS (96906) 27028-2		EA	2
24		COUPLING HALF, QDISC, CAM LOCKING TYPE, DUST CAP, 1-1/4-IN (located in TRICON 10D) (96906) MS 27028-8		EA	2
25	4730-01-393-0988	COUPLING HALF, QDISC, CAM LOCKING TYPE, DUST PLUG, ½-IN (located in TRICON 10D) (96906) MS270-29-2		EA	2
26		COUPLING HALF, QDISC, CAM LOCKING TYPE, DUST PLUG, 1-1/4-IN (located in TRICON 10D) (96906) MS 27029-8		EA	2
27		COUPLING HALF, QDISC, CAM LOCKING TYPE, FEMALE, HOSE SHANK, TYPE VI, ½-IN, BRASS (located in TRICON 10D) (96906) MS 27025-2		EA	2
28	4730-01-139-4511	COUPLING HALF, QDISC, CAM LOCKING TYPE, MALE, EXTERNAL PIPE THREAD, TYPE III, ½-IN, BRASS (located in TRICON 10D) (96906) MS 27021-2		EA	2

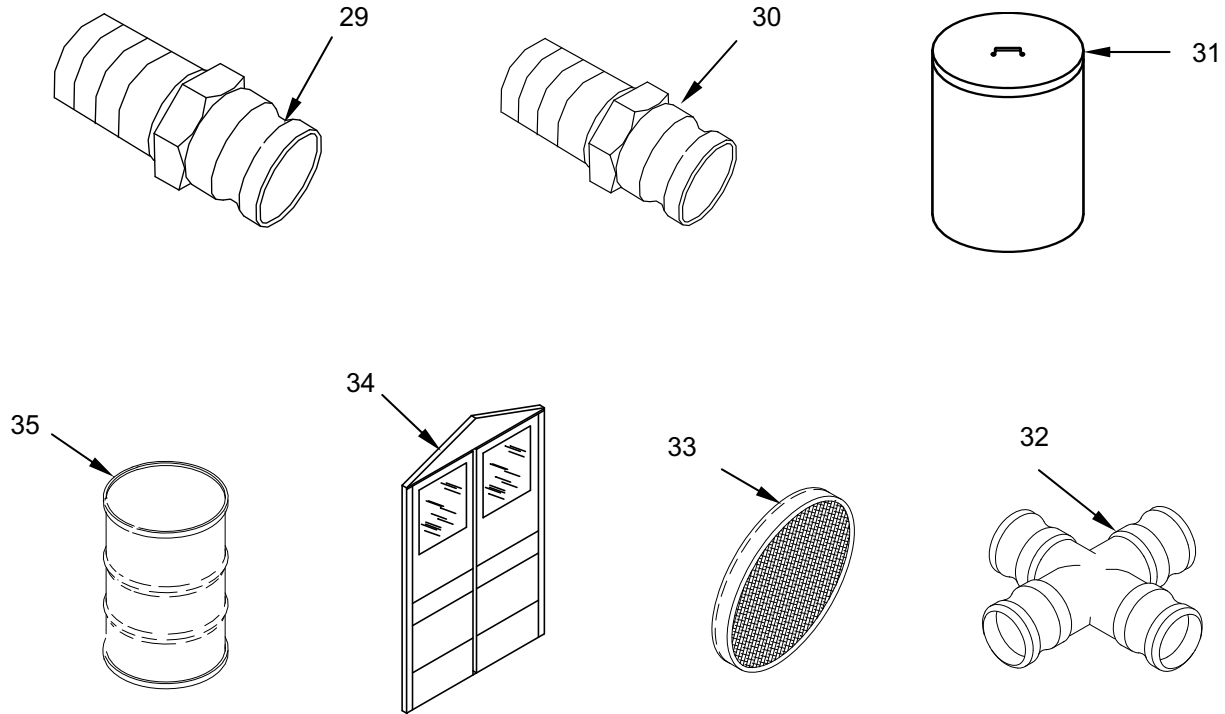


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
29	4730-00-542-4030	COUPLING HALF, QDISC, CAM LOCKING TYPE, MALE, HOSE SHANK, TYPE II, 1-1/4-IN, BRASS, (located in TRICON 10 D) (96906) MS 27021-8		EA	2
30	4730-00-542-4031	COUPLING HALF, QUICK DISCONNECT, CAM LOCKING TYPE, FEMALE, HOSE SHANK, TYPE VI, 1-1/4-IN, BRASS (located in TRICON 10D) (96906) MS 27025-8		EA	4
31	7240-00-161-1143	COVER, CAN, ASH AND GARBAGE (located in TRICON 10C) (58536) A-A-1069		EA	11
32		CROSS ASSEMBLY, WASTE WATER, 1-1/4- IN, MC X MC X MC X MC (located in TRICON 10D) (81337) 9-1-0162		EA	1
33	4130-01-415-7300	DEBRIS SCREEN, AIR CONDITIONER DUCT ADAPTER (located in TRICON 10E) (81337) 9-1-0146		EA	4
34	8340-01-263-2546	DOORS, DOUBLE BUMP-THROUGH, GREEN (nine located in TRICON 10G) (one located in TRICON 10J) (81337) 5-4-4081-1		EA	10
35	8110-00-597-2353	DRUM, SHIPPING AND STORAGE, STEEL, 55-GALLON (one located in TRICON 10D) (one located in TRICON 10J) (81349) PPP-D-729, TYPE I, CLASS A		EA	2

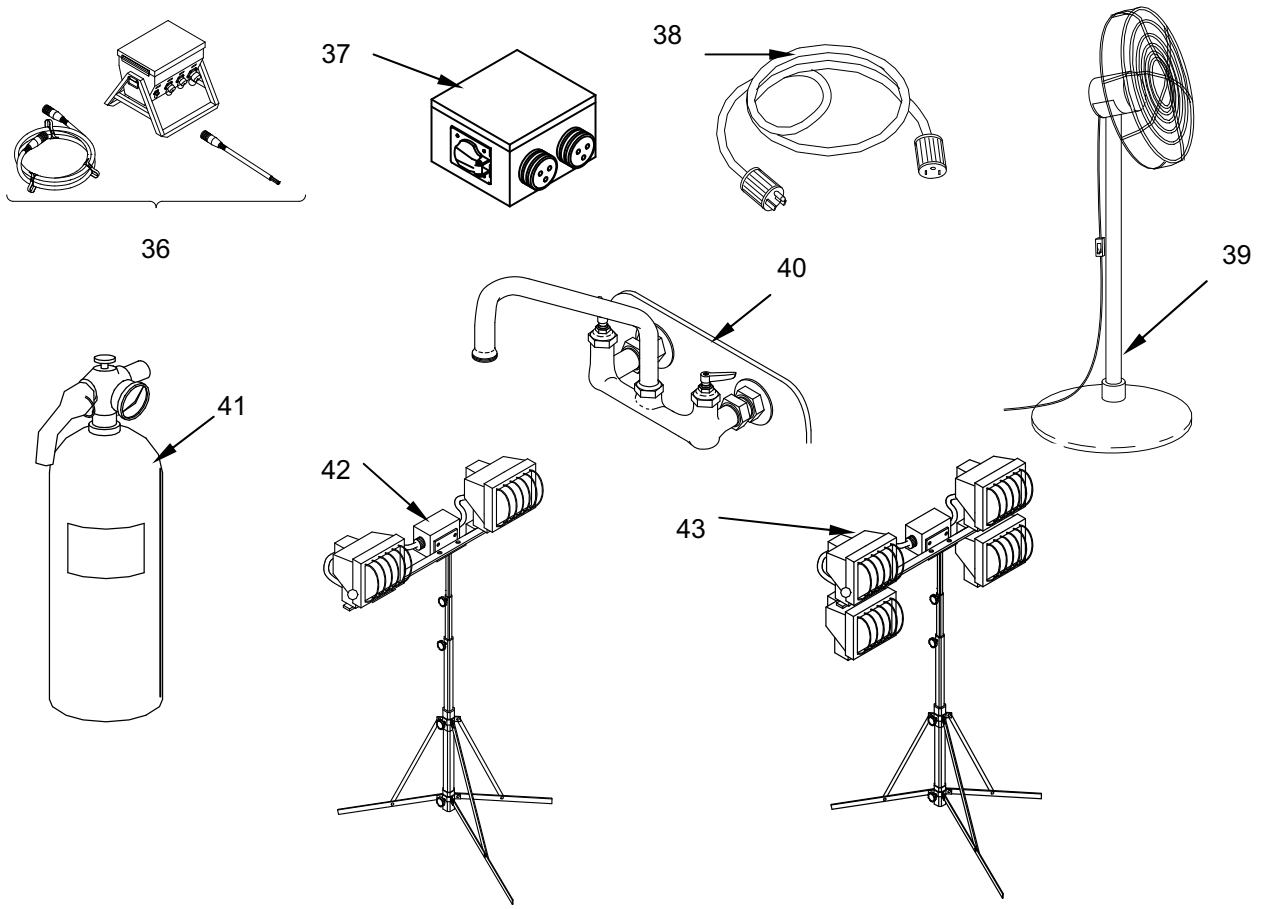
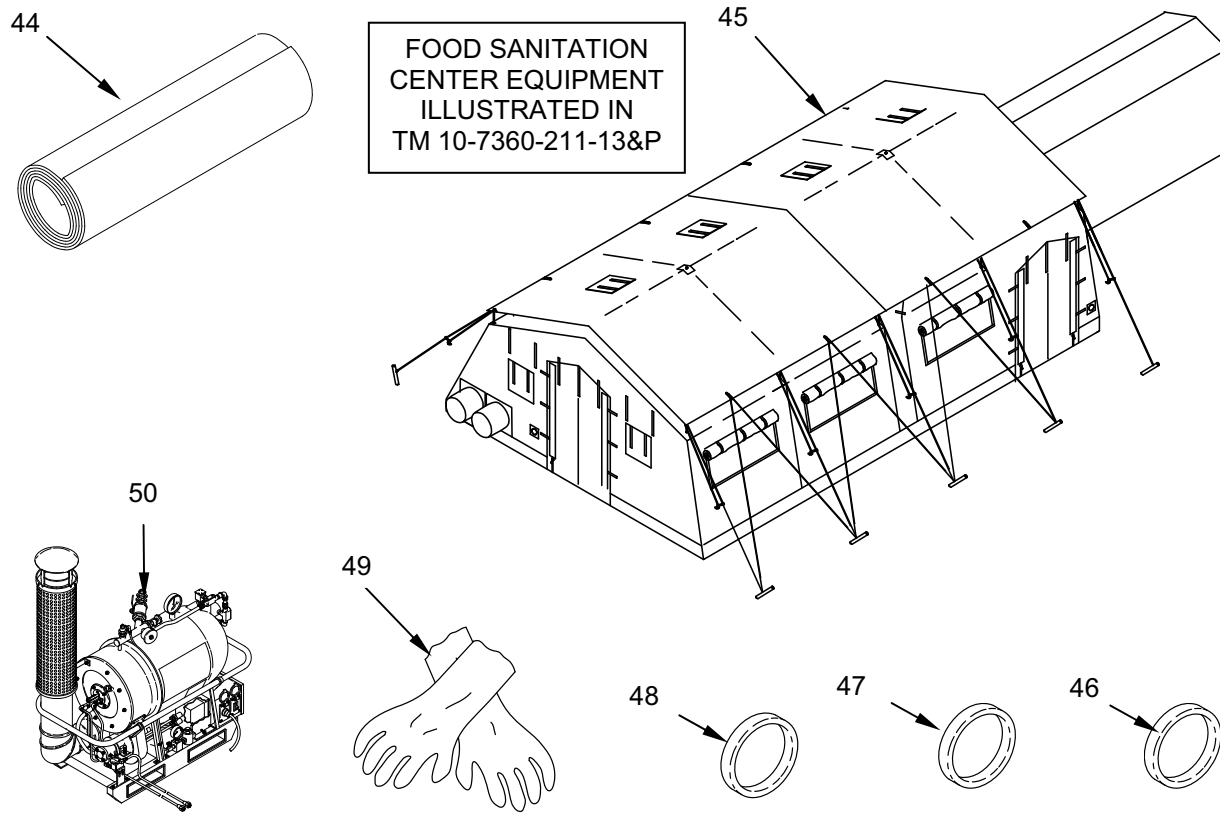


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
36	6150-01-308-5671	ELECTRICAL FEEDER SYSTEM, PDISE M100 ( three located in TRICON 10F) (one located in TRICON 10K) (one located in TRICON 10L) (97403) TA13229E6351		EA	5
37	6110-01-413-6473	ELECTRICAL POWER DISTRIBUTION BOX, KITCHEN (one located in TRICON 10F) (two located in TRICON 10K) (81337) 9-1-0197		EA	3
38		EXTENSION CORD, 50-FT, #12 AWG/3, 81337, 9-1-0769-1		EA	4
39	7360-01-415-7454	FAN ASSEMBLY, KITCHEN, 30", ALTERED ITEM (located in TRICON 10J) (81337) 9-1-0186		EA	2
40	4510-01-223-2422	FAUCET, DOUBLE (located in TRICON 10D) (81337) 1-6-707		EA	4
41	4210-00-889-2491	FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND (located in TRICON 10F) (80244) A-A-393, TYPE 1, CLASS 1, SIZE 10		EA	2
42		FLOODLIGHT, PORTABLE, 2 LIGHT SET HEAVY DUTY (81337) 9-1-0769-1		EA	2
43		FLOODLIGHT, PORTABLE, 4 LIGHT SET, HEAVY DUTY 9-1-0769-2		EA	2





**Table 1. Components of End Item List – Continued.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
44	7220-01-469-3424	FLOOR MAT, ALTERED ITEM (two located in TRICON 10F) (four located in TRICON 10G) (two located in TRICON 10K) (two located in TRICON 10L) (81337) 9-1-0189-1		RO	10
45	7360-01-277-2558	FOOD SANITATION CENTER AND EQUIPMENT (located in TRICON 10C) (81337) FSC-90		EA	2
46	5330-01-138-2108	GASKET, COUPLING HALF, QDISC, CAM LOCK ½-IN, (located in TRICON 10D) (96906) MS 27030-1		EA	1
47	5330-00-551-4572	GASKET, COUPLING HALF, QDISC, CAM LOCK 1¼-IN, (located in TRICON 10D) (96906) MS27030-4		EA	1
48	5330-00-088-9167	GASKET, COUPLING HALF, QDISC, CAM LOCK 1-IN, (located in TRICON 10D) (96906) MS2730-3		EA	1
49	8415-00-782-2809	GLOVE INSERT, COTTON, 81349, MIL-G-82241		PR	2
50	4520-01-162-0385	HEATER, WATER, LIQUID FUEL, M-80 (located in TRICON 10D) (81337) MIL-H-44086, TYPE I		EA	2

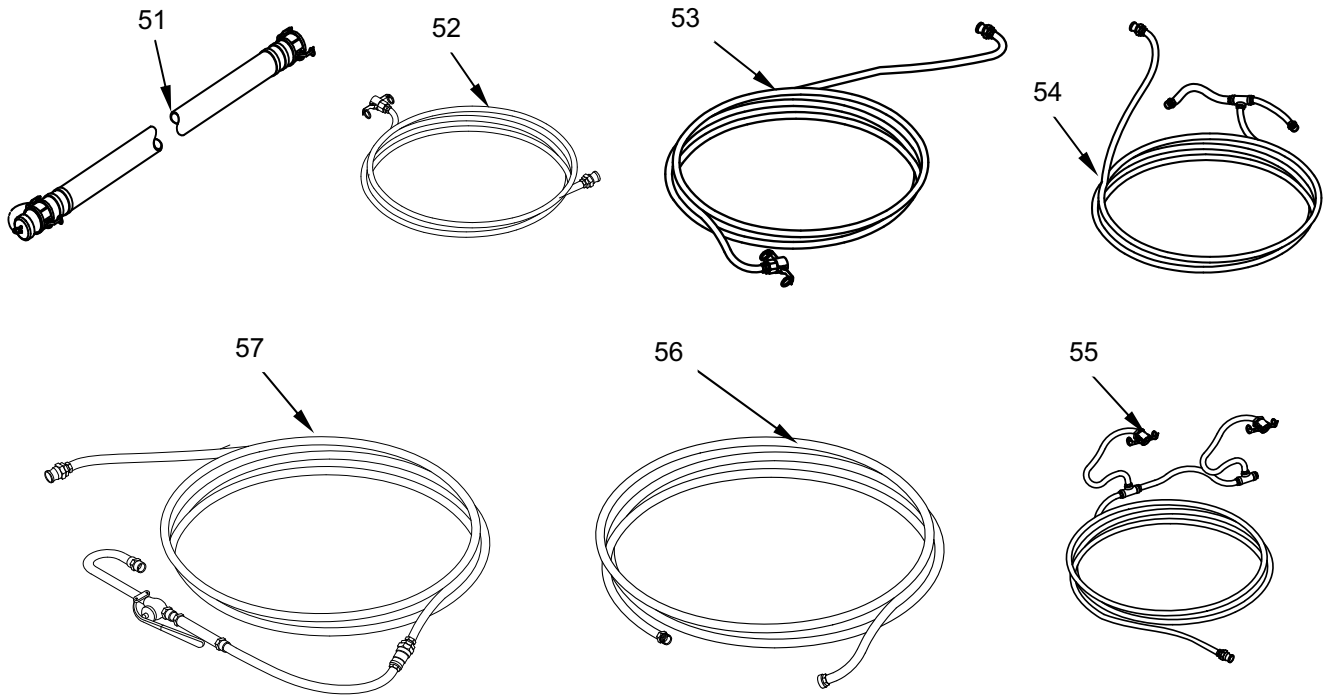


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
51		HOSE ASSEMBLY, BLACK WATER, QDISC, CAM-LOCKING, 2-IN X 25-FT, M X F (located in TRICON 10D) (81337) 9-1-0782-15		EA	2
52		HOSE ASSEMBLY, COLD WATER SUPPLY, 1-IN, 25-FT, MC X FC (located in TRICON 10D) (81337) 9-1-0159		EA	1
53		HOSE ASSEMBLY, COLD WATER SUPPLY, FOOD PREP TENT (located in TRICON 10D) (81337) 9-1-0167		EA	1
54		HOSE ASSEMBLY, COLD WATER SUPPLY, ICE MACHINES (located in TRICON 10D) (81337) 9-1-0163		EA	1
55		HOSE ASSEMBLY, COLD WATER SUPPLY, KITCHEN AND DINING FACILITY (located in TRICON 10D) (81337) 9-1-0165		EA	1
56		HOSE ASSEMBLY, COLD WATER SUPPLY, SANITATION CENTER (located in TRICON 10B) (81337) 9-1-0164		EA	1
57		HOSE ASSEMBLY, COLD WATER SUPPLY, STOCK POTS (located in TRICON 10D) (81337) 9-1-0166		EA	1

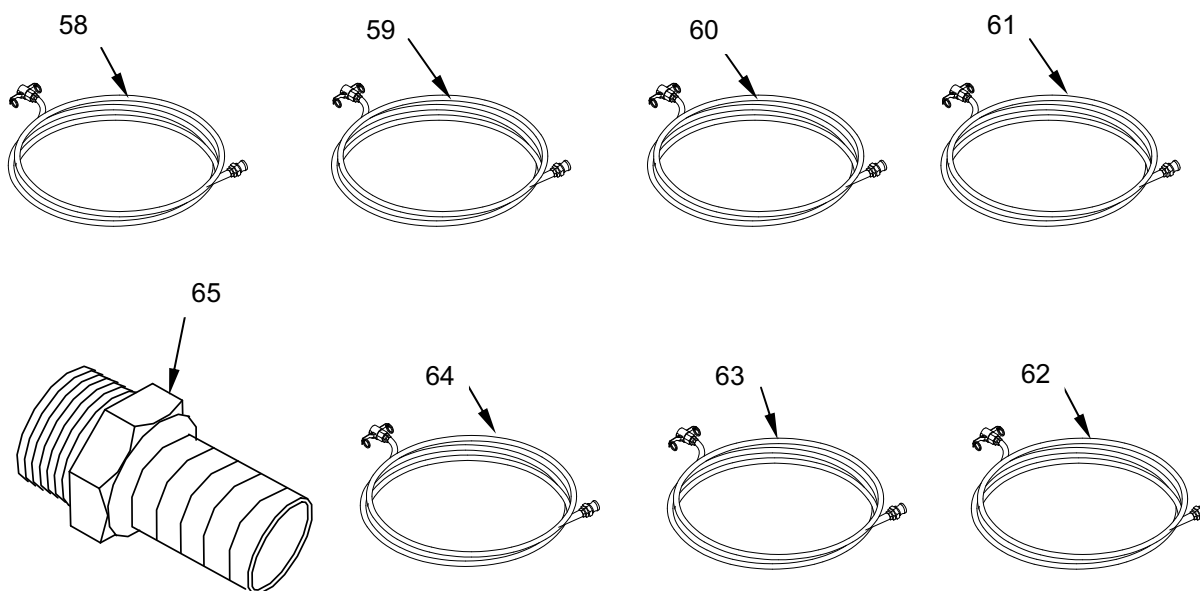


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
58		HOSE ASSEMBLY, DRAIN, 1-1/4-IN, 40-FT, FC X FC (located in TRICON 10D) (81337) 9-1-0161		EA	5
59		HOSE ASSEMBLY, HOT WATER SUPPLY, 1/2-IN, 40-FT, FC X FC (located in TRICON 10D) (81337) 9-1-0168		EA	2
60		HOSE ASSEMBLY, HOT WATER SUPPLY, 1-IN, 25-FT, FC X FC (located in TRICON 10D) (81337) 9-1-0160		EA	1
61		HOSE ASSEMBLY, HOT WATER SUPPLY, SANITATION CENTER (located in TRICON 10D) (81337) 9-1-0169		EA	1
62		HOSE ASSEMBLY, POTABLE WATER, QDISC, CAM-LOCKING, 1/2-IN X 25-FT, M X F (located in TRICON 10D) (81337) 9-1-0781-5		EA	2
63	4720-01-174-8173	HOSE ASSEMBLY, RUBBER, DISCHARGE ONLY, POTABLE WATER, RDF, 1-1/2-IN, 25-FT, MC X FC (located in TRICON 10D) (97403) 13225E9136-11		EA	1
64	4720-01-438-8343	HOSE ASSEMBLY, RUBBER, DISCHARGE ONLY, POTABLE WATER, RDF, 1-1/2-IN, 10-FT, MC X FC (located in TRICON 10D) (97403) 13225E9136-9		EA	1
65		HOSE FITTING, BRASS, 1/2-IN BARBED X M NPT (located in TRICON 10D) (39428) 5363K11		EA	25

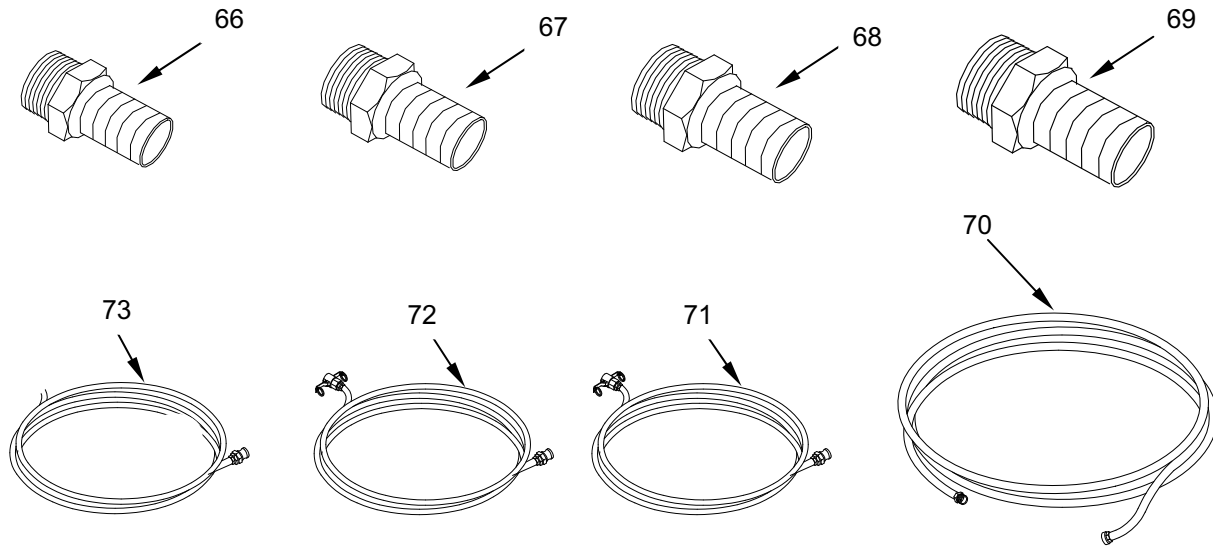


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
66	4730-01-226-3302	HOSE NIPPLE, 1/4-IN NPTF X 1/2-IN HOSE, BRASS (located in TRICON 10D) (39428) 5346K22		EA	4
67		HOSE NIPPLE, 1/2-IN NPTF X 1/2-IN HOSE, BRASS (located in TRICON 10D) (39428) 5346K25		EA	1
68		HOSE NIPPLE, 3/4 IN NPTF X 1/2-IN HOSE, BRASS (located in TRICON 10D) (39428) 5346K88		EA	4
69		HOSE NIPPLE, 3/8-IN NPTF X 1/2-IN HOSE, BRASS (located in TRICON 10D) (39428) 5346K32		EA	4
70		HOSE SECTION 1 1/4-IN X 45-FT, WATER (located in TRICON 10D) (81337) 9-1-0709		EA	4
71	4720-00-544-1381	HOSE, 1 INCH, 25-FT (located in TRICON 10D) (81337) 1-6-688-1		EA	4
72		HOSE, 1/2 INCH, 40-FT (located in TRICON 10D) (81337) 1-6-694-6		EA	4
73		HOSE, NYLOBRAID, 1/2 IN X 100-FT COIL (located in TRICON 10D) (39428) 5238K758		EA	3

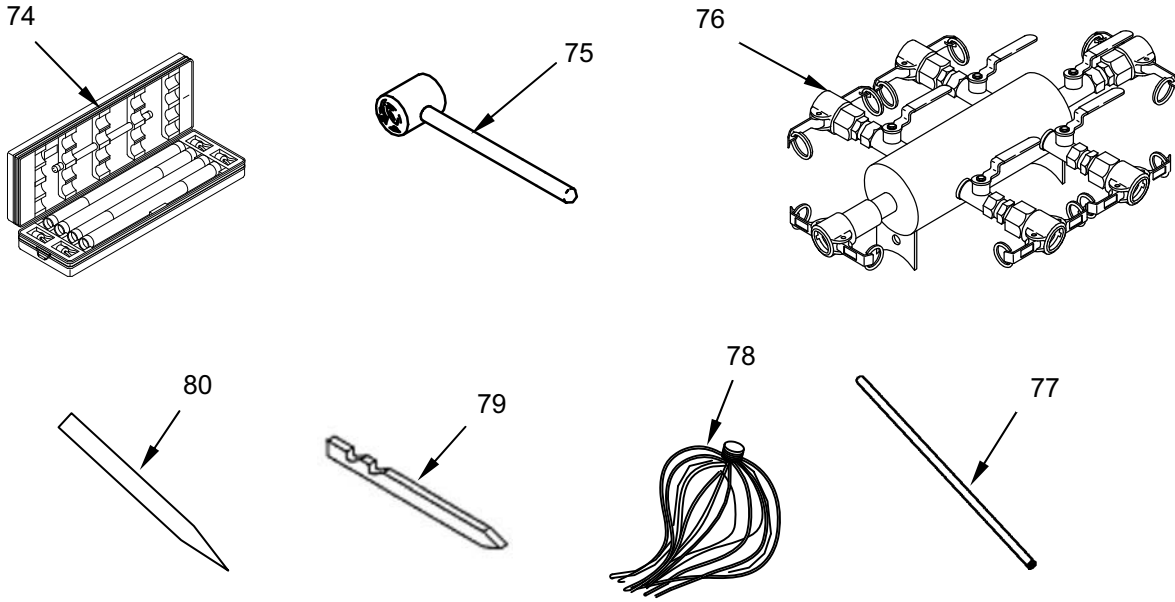


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
74	6230-01-242-2016	LIGHT SET, FLUORESCENT (four located in TRICON 10F) (two located in TRICON 10G) (four located in TRICON 10K) (four located in TRICON 10L) (17023) BR2005		EA	14
75	5120-00-926-7116	MALLET, WOOD, 6 IN FACE X 8 IN LONG HEAD (one located in TRICON 10F) (one located in TRICON 10G) (one located in TRICON 10K) (one located in TRICON 10L) (80244) LLL-M-71, TYPE IX		EA	4
76		MANIFOLD, WATER DISTRIBUTION (located in TRICON 10D) (81337) 1-6-705		EA	1
77	7920-00-267-1218	MOP HANDLE (located in TRICON 10C (81348) NN-H-101, TYPE 1, CLASS 1, SIZE B		EA	1
78	7520-00-141-5550	MOP HEAD, WET (located in TRICON 10C) (80244) T-M-561, TYPE 1, STYLE 1, CLASS 15		EA	2
79	8340-00-261-9751	PIN TENT, WOOD, 24-INCH (Located in TRICON 10G) (81337) 5-4-1		EA	50
80	88340-00-823-7451	PIN, TENT, STEEL, 12-INCH (Located in TRICON 10G) (81337) 5-4-791		EA	80

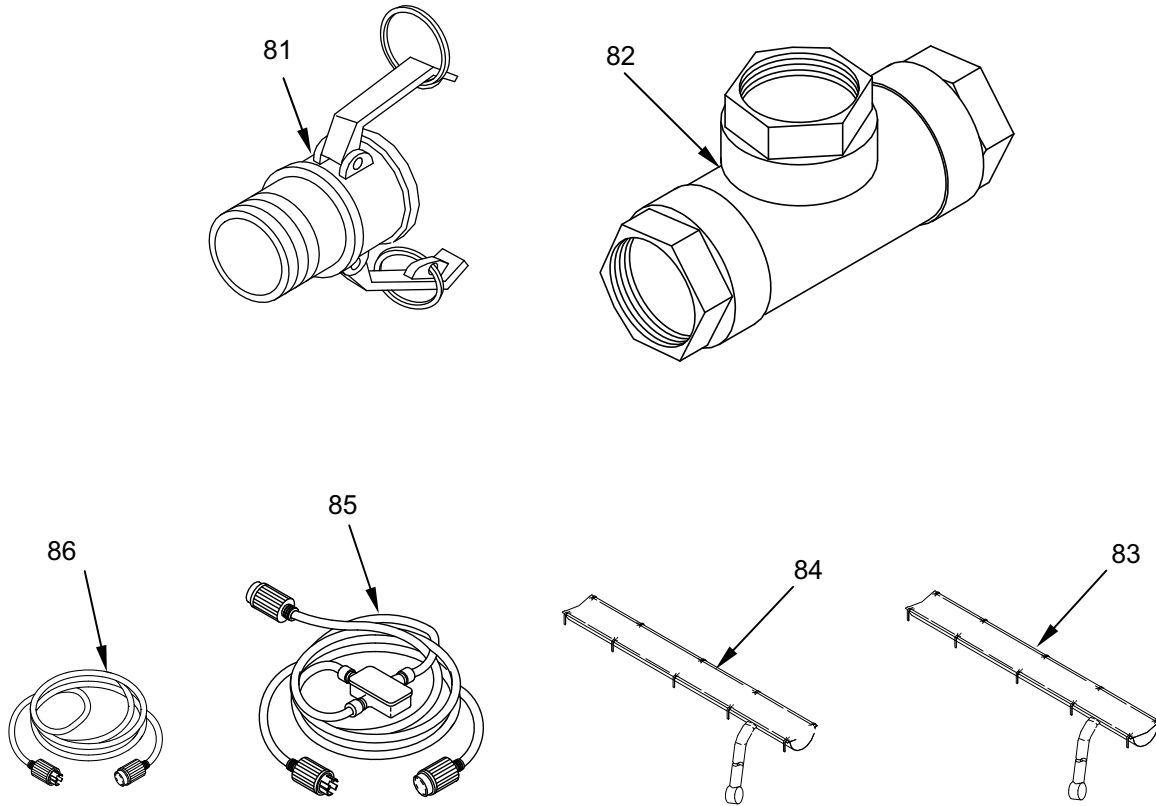


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
81	4730-01-518-3759	PIPE FITTING, COUPLING , BRASS, ½-IN NPT F (located in TRICON 10D) (39428) 4429K113		EA	5
82	4730-01-235-3007	PIPE FITTING, TEE, BRASS, ½-IN NPT F (located in TRICON 10D) (39428) 4429K253		EA	5
83	8340-01-186-3035	PLENUM, END WALL, 16', TEMPER (located in TRICON 10L) (81337) MIL-T-44243; 5-4-3614		EA	1
84	8340-01-186-3036	PLENUM, EXTENDABLE 16', TEMPER (located in TRICON 10L) (81337) 5-4-3618		EA	2
85	6150-01-214-0135	POWER CABLE ASSEMBLY, TEE, 20A (located in TRICON 10J) (81337) 6-1-8222-1		EA	1
86	6150-01-413-2235	POWER CABLE, CLASS L TO COMMERCIAL, 20 A (two located in TRICON 10D) (one located in TRICON 10J) (81337) 9-1-0182		EA	3

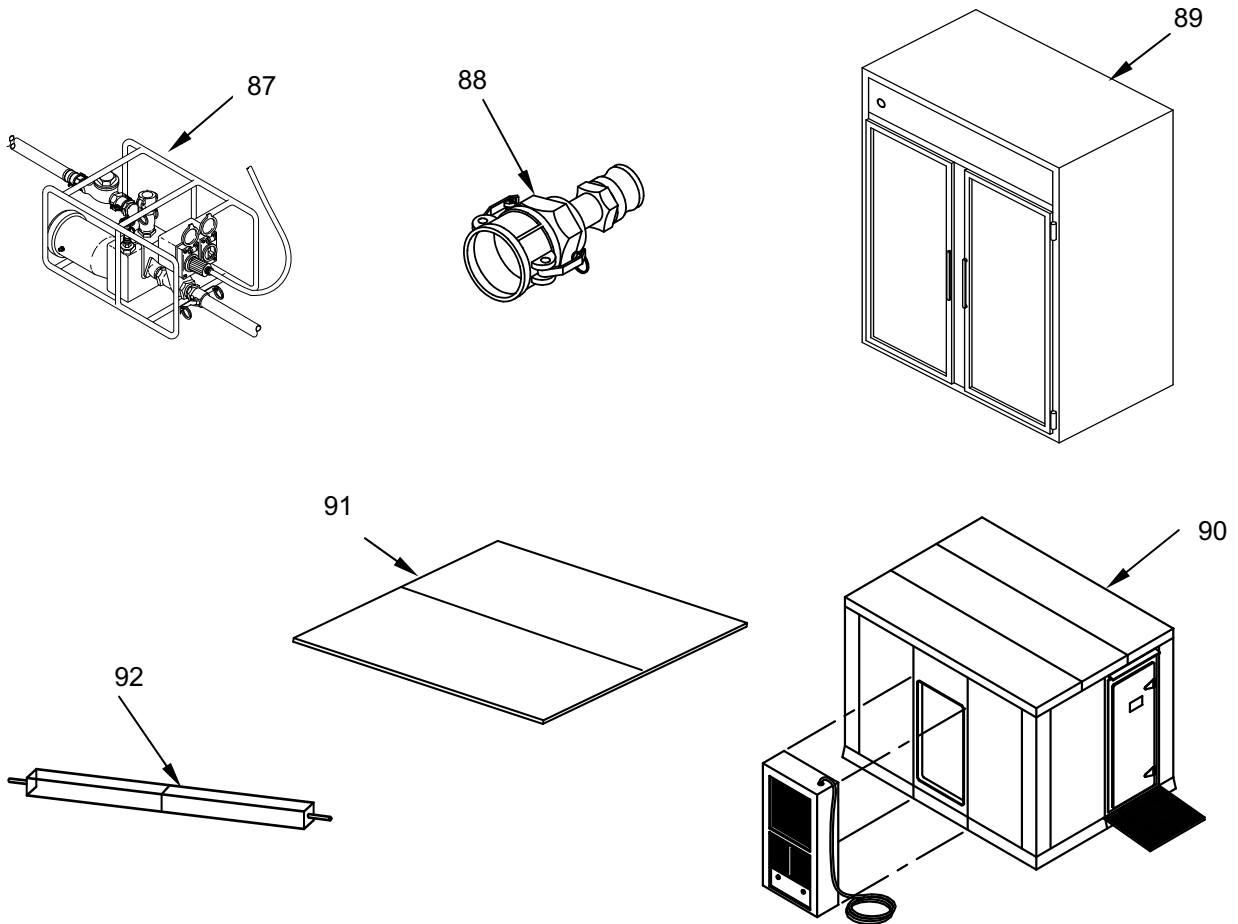


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
87	4320-01-245-6936	PUMP UNIT, CENTRIFUGAL (located in TRICON 10D) (81337) 6-1-9932		EA	1
88	4730-00-951-3295	REDUCER, Q-DISC, CAM-LOCK, 2 IN FC X 1- 1/2 IN MC (located in TRICON 10J) (96906) MS-49000-5		EA	1
89	4110-01-389-9182	REFRIGERATION UNIT, MECHANICAL, PANEL TYPE, 10,000-BTU, ELECTRIC MOTOR DRIVEN, TYPE II, (located in TRICON 10I) (94833) F10-000RE		EA	2
90	4110-01-166-3579	REFRIGERATOR, PREFABRICATED, 600 CUBIC FOOT (located in TRICON 10A, 10I and 10J) (57519) AA-600-PF		EA	2
91	8145-01-503-4404	SHELF, SHIPPING AND STORAGE, 09PD1, 1041A, (located in TRICON 10C) (Part of Transportation and Storage Subsystem)		EA	
92	9540-01-491-3804	SHORING BEAM, 09PD1, 1059, (located in TRICON 10C) (Part of Transportation and Storage Subsystem)		EA	

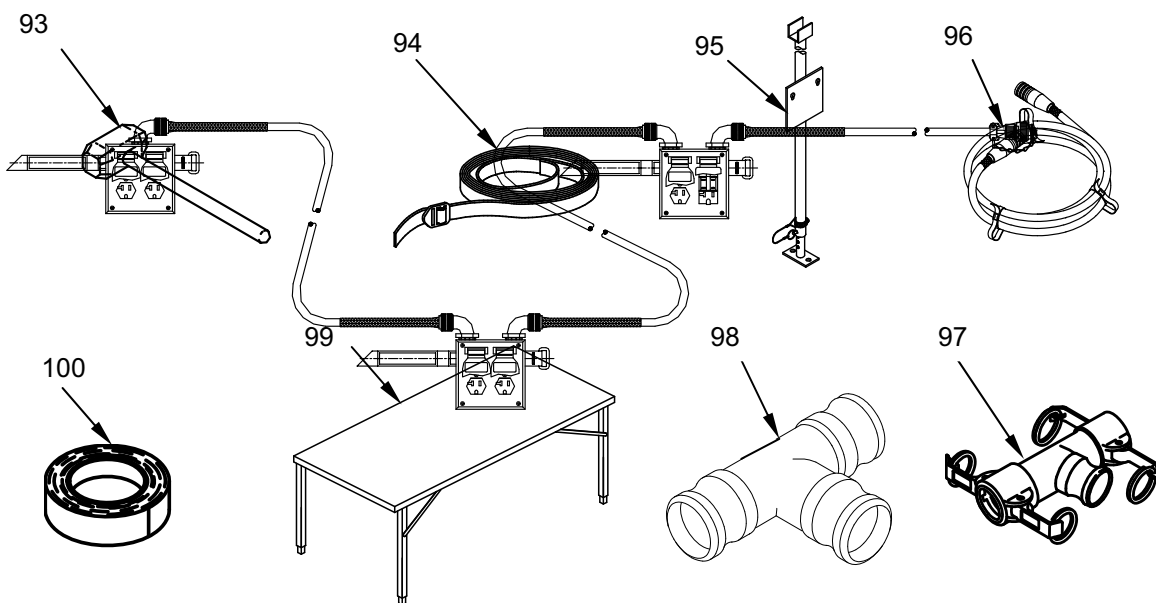


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
93	5120-00-900-6098	SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG (one each located in TRICON 10F, 10G, 10K, 10L) (58536) A-A-1293		EA	4
94	5340-01-204-3009	SPECIAL PURPOSE WEB, TIEDOWN (fourteen located in TRICON 10A) (six located in TRICON 11C) (five located in TRICON 10D) (four located in TRICON 10E) (five located in TRICON 10I) (five located in TRICON 10J) (98313) FDC5770-5		EA	43
95	6110-01-242-6691	STAND, DISTRIBUTION BOX, TEMPER (one each located in TRICON 10F and 10G) (two each located in TRICON 10K and 10L) (81337) 1-6-6005		EA	6
96	5430-01-256-6299	STRAP, CABLE CARRYING, (Located in TRICON 10G) (97403) 13226E5825		EA	8
97		T ASSEMBLY, 1-1/2-IN FC X 1-1/2 FC X 1-IN, MC (located in TRICON 10D) (81337) 9-1-0158		EA	1
98		T ASSEMBLY, QDISC CAM LOCKING TYPE, 1-1/4 X 1-1/4 X 1-1/4-IN, MC, STEAM TABLE DRAIN (located in TRICON 10D) (81337) 9-1-0707		EA	1
99	7110-01-415-6895	TABLE, FOLDING, 6 FT ALUMINUM (seventeen located in 10D) (five located in TRICON 10J) (81337) 9-1-0191		EA	22
100	8030-00-889-3535	TAPE ANTISEIZE, SIZE 2, 1/2-IN WIDE X 260-FT LONG, (located in TRICON 10D) (80244) MIL-T-27730 SZ2		EA	10



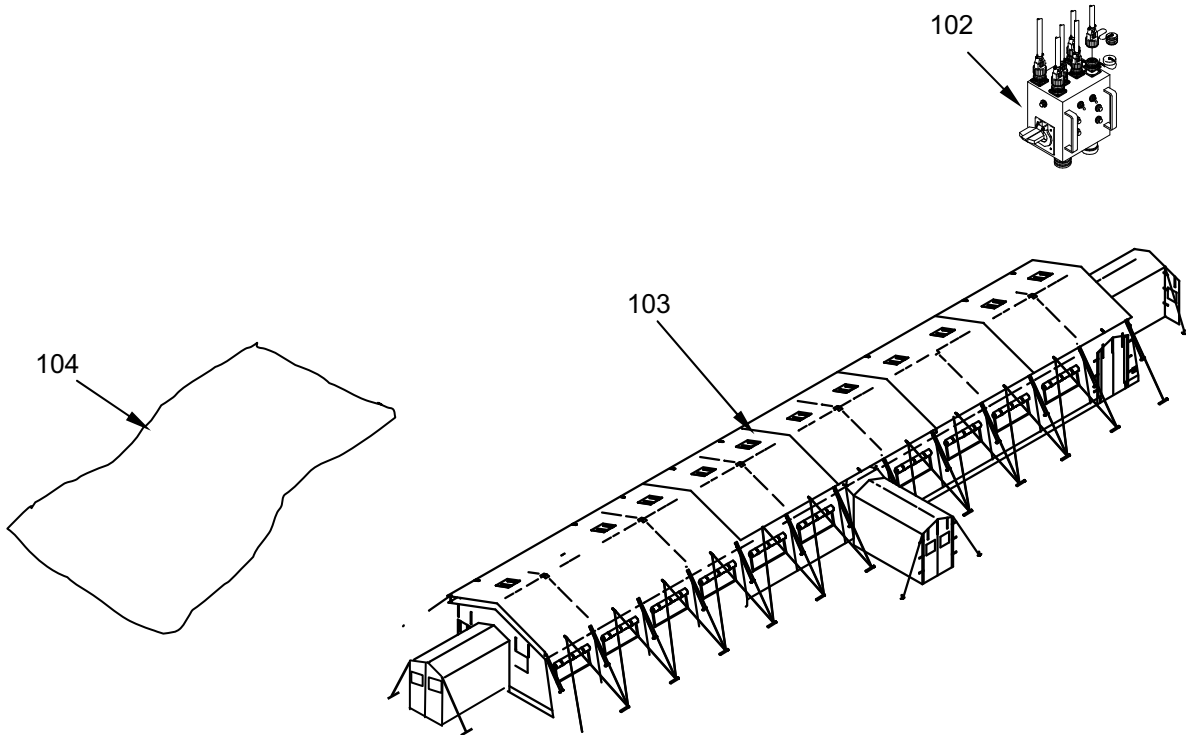


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
101	6150-01-470-1916	TEMPER CONVENIENCE OUTLET ASSEMBLY (four located in TRICON 10F) (two located in TRICON 10K) (four located in TRICON 10L) (81337) 9-1-0624		EA	10
102	6110-01-251-0402	TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V (two located in TRICON 10F/G) (two located in TRICON 10K) (two located in TRICON 10L) (81337) MIL-E-44258, TYPE III, 1-6-6041		EA	6
103	8340-01-443-7342	TEMPER, DINING TENT, TYPE XVIII, 96', GREEN, PART A (located in TRICON 10F) (81337) MIL-T-44271, TY XVIII	FSN	EA	1
103	8340-01-443-7342	TEMPER, DINING TENT, TYPE XVIII, 96', GREEN, PART B (located in TRICON 10G) (81337) MIL-T-44271, TY XVIII	FSN	EA	1
103	8340-01-443-7348	TEMPER, DINING TENT, TYPE XVIII, 96', TAN, PART A (located in TRICON 10F) (81337) MIL-T-44271, TY XVIII	FSQ	EA	1
103	8340-01-443-7348	TEMPER, DINING TENT, TYPE XVIII, 96', TAN, PART B (located in TRICON 10G) (81337) MIL-T-44271, TY XVIII	FSQ	EA	1
104	8340-01-186-3019	TENT COVER, D/T TEMPER (located in TRICON 12L) (81337) 5-4-3359-1		EA	3

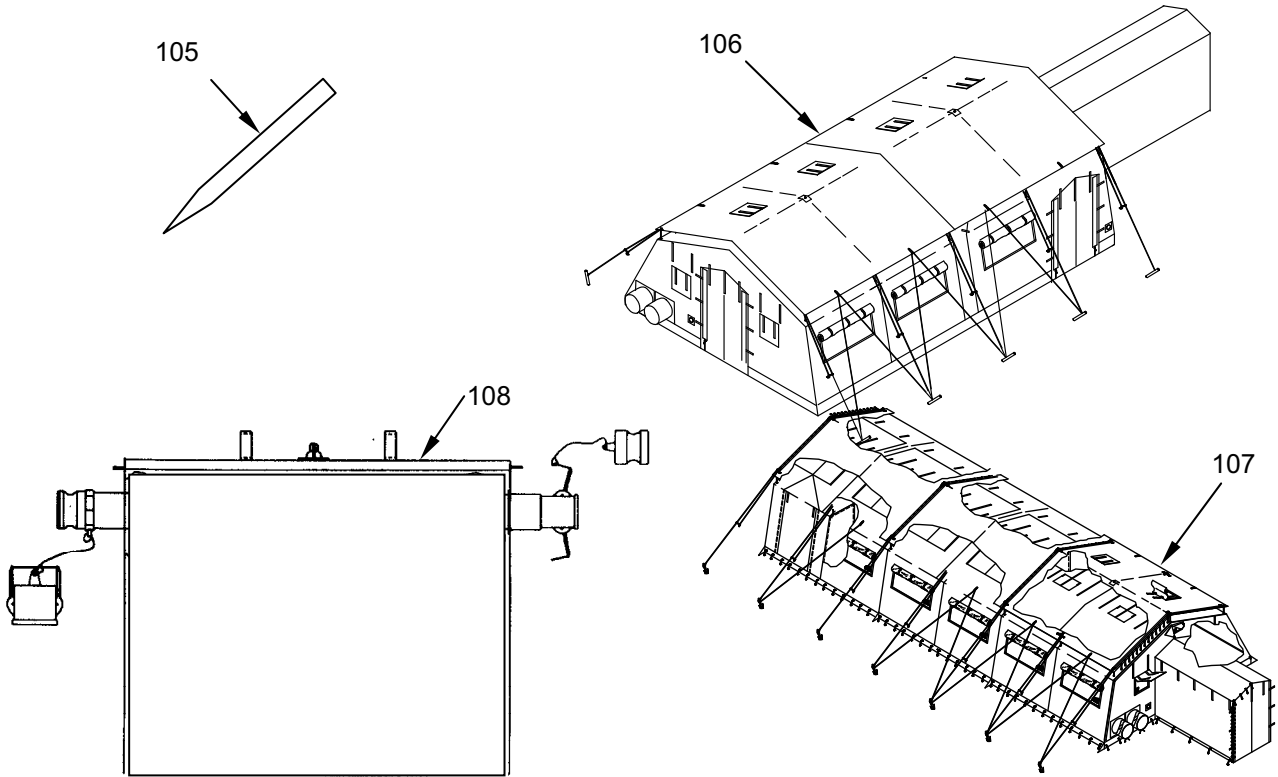
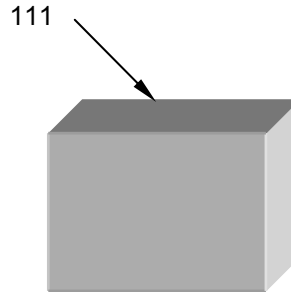
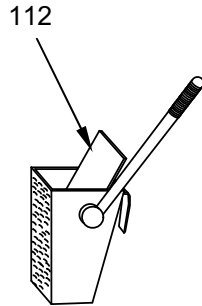
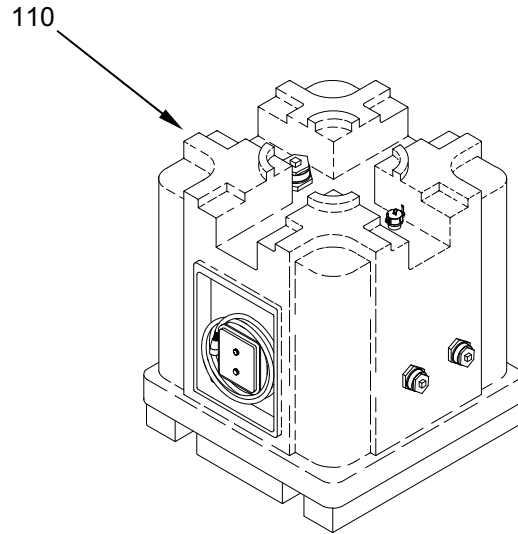
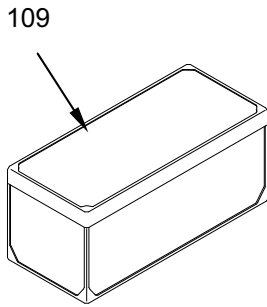


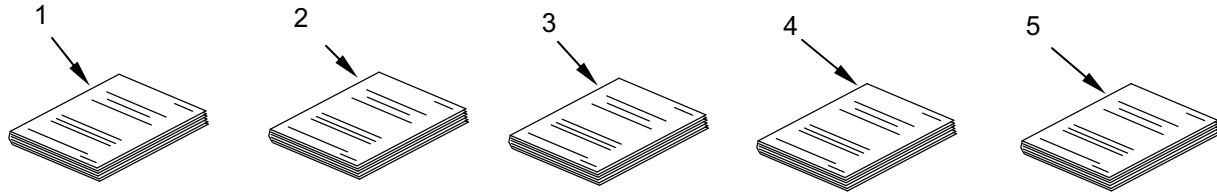
Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
105	8340-00-985-7461	TENT PIN, STEEL, 18" (120 located in TRICON 10F) (120 located in TRICON 10K) (82 located in TRICON 10L) (81337) 5-4-196		EA	322
106	8340-01-443-7330	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), 32 FT, TYPE XIX, COLOR -GREEN (located in TRICON 10K) (81337) MIL-T-44271, TY XIX	FSN	EA	2
106	8340-01-443-7332	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), 32 FT, TYPE XIX, COLOR -TAN (located in TRICON 10K) (81337) MIL-T-44271, TY XIX	FSQ	EA	2
107	8340-01-325-0131	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), 48', TYPE XV, COLOR -GREEN (located in TRICON 10L) (81337) MIL-T-44271, TY XV	FSN	EA	1
107	8340-01-487-6307	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), 48', TYPE XV, COLOR -TAN (located in TRICON 10L) (81337) MIL-T-44271, TY XV	FSQ	EA	1
108		TRAP ASSEMBLY, GREASE (located in TRICON 10J) (81337) 9-1-0562		EA	2



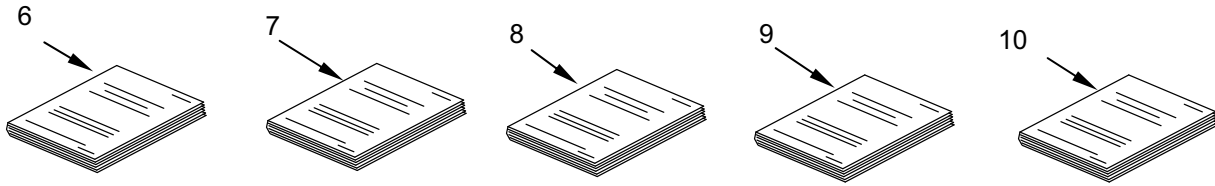
**Table 1. Components of End Item List – Continued.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
109	8460-01-471-1024	TRUNK, LOCKER (ten located in TRICON 10E) (six located in TRICON 10F) (four located in TRICON 10G) (three located in TRICON 10K) (twelve located in TRICON 10L) (58536) A-A-59490		EA	45
110	4630-01-505-3746	WASTE WATER TRANSFER SYSTEM (located in TRICON 10J) (81337) 9-1-0527		EA	1
111	7360-01-433-4201	WATER DISTRIBUTION KIT, FORCE PROVIDER MODULAR FIELD KITCHEN (located in TRICON 10D) 9-1-0196 (81337) NOTE KIT CONSISTS OF ITEMS 64 THROUGH 110		KT	1
112	7920-00-682-6861	WRINGER, MOP, SIZE-SMALL, TYPE-GEAR & RACK (located in TRICON 10C) (81348) A-A-261		EA	1



**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR AIR CONDITIONER 54,000 BTU/HR, 208/230 VOLT 3 PHASE, 50/60 HERTZ MODEL AH-54, TM 9-4120-398-14 (located in TRICON 1B) OR OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FIELD DEPLOYABLE ENVIRONMENTAL CONTROL UNITS MODELS FDECU-2, FDECU-4 AND FDECU-4 9NSN 4120-01-449-459) TM 9-4120-411-14 (located in TRICON 1B)		EA	4
2	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (DISE) AND POWER DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (PDISE) CONSISTING OF ELECTRIC FEEDER SYSTEM M200, M200 A/P, ELECTRICAL FEEDER SYSTEM M100, M100 A/P, ELECTRICAL DISTRIBUTION M40, M40 A/P, ELECTRICAL DISTRIBUTION SYSTEM M60, M60 A/P, ELECTRICAL ASSEMBLY M46 (one each located in TRICON 10F, 10G and 10L) TM 9-6150-226-13		EA	3
3	N/A	OPERATOR, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (one each located in TRICON 10F and 10G) TM 10-8340-224-13		EA	2
4	N/A	OPERATOR'S MANUAL FOR FORCE PROVIDER FOOD SERVICE EQUIPMENT TM 10-7310-282-10		EA	1
5	N/A	OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FOR REFRIGERATION UNIT, MECHANICAL, PANEL TYPE, 10,000 BTU/HR, ELECTRIC MOTOR DRIVEN, MODEL REMD-K/IL-1OLS, NSN 4110-01-163-2140 (located in TRICON 10I) TM 5-4110-242-14		EA	1



**Table 2. Basic Issue Items List – Continued.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
6	N/A	OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR REFRIGERATION UNIT, MECHANICAL, PANEL TYPE, 10,000 BTU/HR, ELECTRIC MOTOR DRIVEN, MODEL REMD-K/IL-1OLS, NSN 4110-01-163-2140 (located in TRICON 10I) TM 5-4110-256-24P		EA	1
7	N/A	OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL REFRIGERATOR: PANEL TYPE, PREFABRICATED ASSEMBLIES, 600 CU. FT. MODEL TKR-600C (NSN 4110-01-264-2101) 600 CU. FT. MODEL AA600PF (4110-01-166-3579) 1200 CU. FT. MODEL AA1200PFA (4110-01-167-5320) 4000 CU. FT. MODEL AA4000PF (4110-01-166-3580) 4000 CU. FT. MODEL TKR-4000 C (4110-01-315-9329) (located in ISO Container 10A) TM 9-4110-241-13		EA	2
8	N/A	OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR SEWAGE EJECTION PUMP (located in TRICON 10J) TM 10-4630-206-13&P		EA	1
9	N/A	OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) HEATER, WATER, LIQUID FUEL, M-80 NSN 4520-01-162-0385 M-85 NSN 4520-01-237-3719 (located in TRICON 10D) TM 10-4520-259-13&P		EA	1
10	N/A	OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR FOOD SANITATION CENTER (FSC) (located in TRICON 10C) TM 10-7360-211-13&P		EA	1

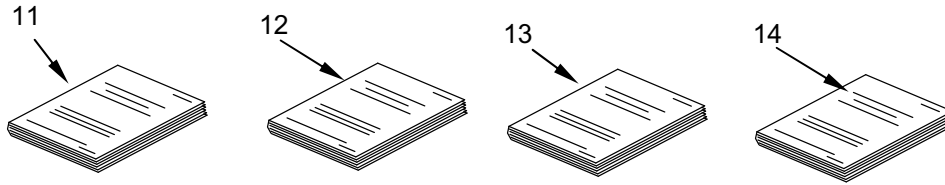
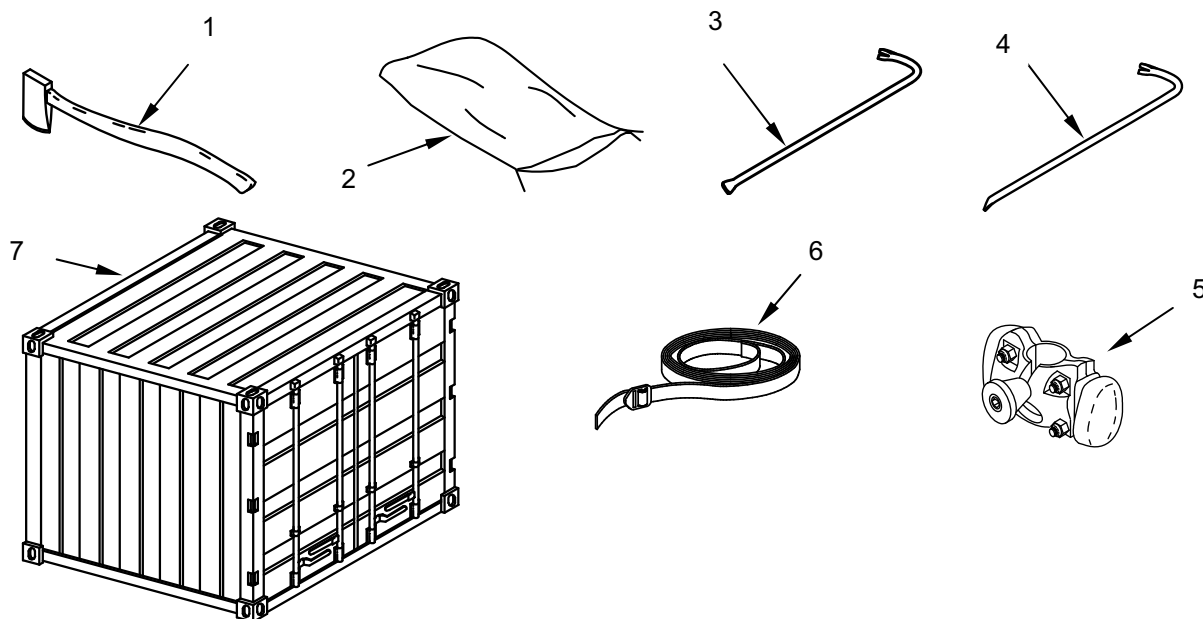


Table 2. Basic Issue Items List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
11	N/A	UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) GENERAL CARGO CONTAINER NSN 8115-01-241-7524 (located in ISO Container 10A) TM 55-8115-204-23&P		EA	1
12	N/A	UNIT AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR REFRIGERATOR PANEL TYPE, PREFABRICATED ASSEMBLIES 600 MODEL MDS 1600N (NSN 4110-01-361-3891) 600 CU. FT. MODEL TKR-600C (NSN 4110-01-264-2101) 600 CU. FT. MODEL AA600PF (4110-01-166-3579) 1200 CU. FT. MODEL AA1200PFA (4110-01-167-5320) 4000 CU. FT. MODEL AA4000PF (4110-01-166-3580) 4000 CU. FT. MODEL TKR-4000 C (4110-01-315-9329) (located in ISO Container 10A) TM 9-4110-241-23P		EA	1
13	N/A	UNIT AND INTERMEDIATE DIRECT SUPPORT REPAIR PARTS AND SPECIAL TOOLS LIST FOR REFRIGERATION UNIT, MECHANICAL; PANEL TYPE; 5,000 BTU/HOUR, 208 VOLTS AC, 3 PHASE, 60 HZ, ELECTRIC MOTOR DRIVEN, MODEL REMD/5K/H NSN 4110-01-275-9625 (located in TRICON 10I) TM 5-4110-248-23P		EA	1
14	N/A	UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL, REPAIR PARTS AND SPECIAL TOOLS LIST FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (located in TRICON 1A) TM 10-8340-224-23P		EA	1

**FORCE PROVIDER SITE PREPARATION/EQUIPMENT  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	5110-00-293-2336	AX, SINGLE BIT, FLAT TOP FACE, HICKORY HANDLE, 31" LONG, 4LB HEAD (located in TRICON 11A)		EA	1
2	8105-00-935-7101	(80244) GGG-A-926, TYPE I, CLASS I, DEA BAG, SAND, ACRYLIC, GREEN, QTY 100 (located in TRICON 11A) (58536) A-A-52140A-1	FSN	HD	38
2	8105-00-331-3704	BAG, SAND, ACRYLIC, TAN, QTY 100 (located in TRICON 11A) (58536) A-A-52140A-1	FSQ	HD	38
3	5120-00-965-0879	BAR, COMBINATION PRY AND SCRAPE, 2 1/2" X 13" (located in TRICON 11A)		EA	5
4	5120-00-242-0762	(80244) GGG-B-110 TYPE I BAR, WRECKING, 3/4" DIAMETER, 36" LONG (located in TRICON 11A)		EA	5
5		(80244) GGG-B-110, TYPE V, CLASS I, STA SZ5 CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 11A) (Part of Transportation and Storage Subsystem)		EA	3
6	8145-01-415-4113	CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL (81337) 9-1-0142-1 (located in TRICON 11A) (Part of Transportation and Storage Subsystem)		EA	1
7	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) (TRICON 11A) (09PDO) BXTPCGATPD0003 – Green (Part of Transportation and Storage Subsystem)	FSN	EA	1
7	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) (TRICON 11A) (09PDO) BXPCTATPD0003 – Tan (Part of Transportation and Storage Subsystem)	FSQ	EA	1

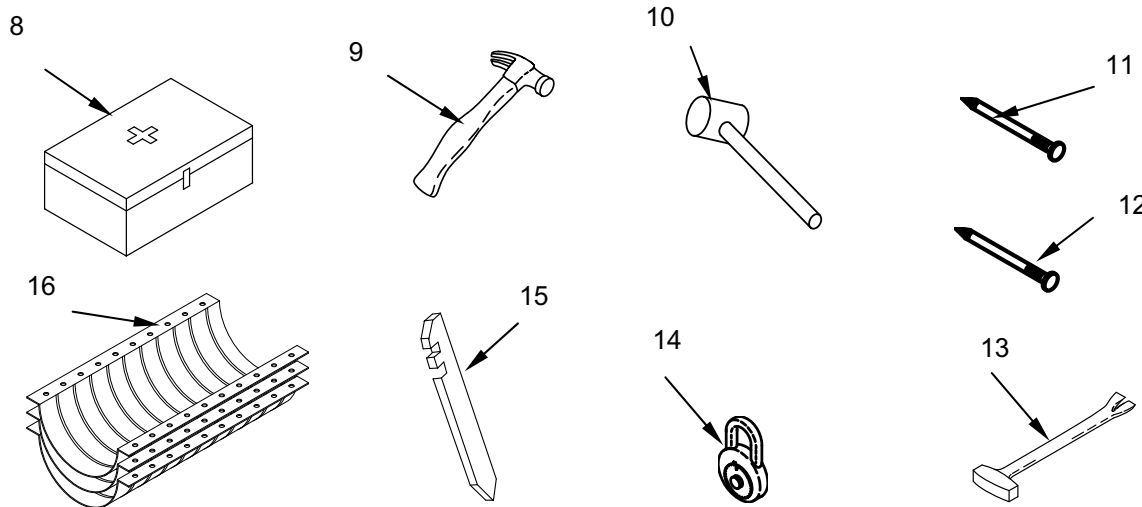


Table 1. Components of End Item List.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
8	6545-00-656-1094	FIRST AID KIT, 20-25 MAN CREW (located in TRICON 11A) (80244) GG-K-391, TYPE 3		EA	10
9	5120-01-112-8351	HAMMER, HAND, 16OZ HEAD, 13" LONG (located in TRICON 11A) (80244) GGG-H-86, TYPE I, CLASS I, STA SZ5		EA	5
10	5120-00-926-7116	MALLET, WOOD, 6" FACE, 8" LONG HEAD WITH STEEL BANDS (located in TRICON 11A) (80244) LLL-M-71		EA	2
11	5315-00-753-3381	NAIL, COMMON SIZE 4D (1 1/2" LONG) 5LB BOX (located in TRICON 11A) (96906) MS-90713-5		PG	20
12	5315-00-753-3383	NAIL, COMMON SIZE 8D (2 1/2" LONG) 5LB BOX (located in TRICON 11A) (96906) MS-90713-9		PG	20
13	5120-00-809-9450	OPENER, CRATE (located in TRICON 11A) (58536) A-A-2554 SZ2		EA	5
14	5340-00-292-0896	PADLOCK, COMBINATION, 4 POINT (located in TRICON 11A) (58536) A-A-1928		EA	25
15	8340-00-261-9751	PIN, TENT, WOOD, SIZE 2 (24") (located in TRICON 11A) (81337) 5-4-1		EA	200
16	4710-00-273-1041	PIPE, CULVERT, NESTABLE, STEEL, 12" DIA., ROUND, FLANGED HALF SECTIONS WITH BOLTS AND NUTS (located in TRICON 11A) (81349) M236A112		EA	120



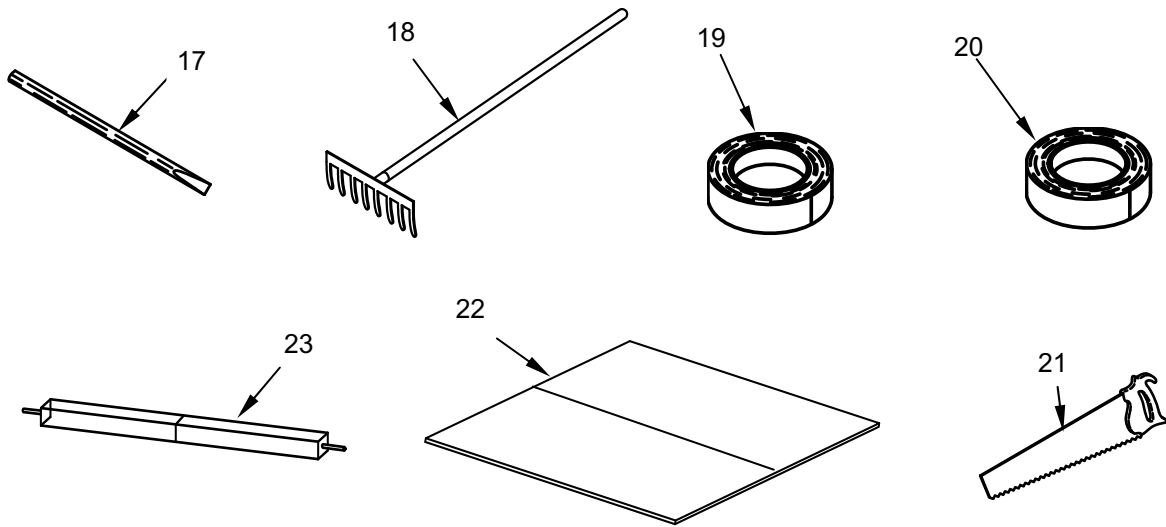


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
17	5120-00-224-1389	PRY BAR, 16" LONG, STEEL (located in TRICON 11A) (80244) GGG-B-110, TYPE IV, SZ1		EA	5
18	3750-00-171-7182	RAKE, GARDEN (located in TRICON 11A) (80244) GGG-R96, TYPE 2, CLASS A		EA	10
19	9905-00-196-1068	RIBBON FLAG, SURVEYOR'S, FLUORESCENT YELLOW 50-YARD ROLL (located in TRICON 11A), (58536) A-A-1823		BX	1
20	9905-01-458-2059	RIBBON FLAG, SURVEYOR'S, PINK, 50-YARD ROLL (located in TRICON 11A) (1F6E8) ARCTIC GLOW PINK		BX	1
21	5110-00-293-3435	SAW, CROSSCUT, SKEWBACK, 26" CUTTING EDGE, 8 POINTS PER INCH (located in TRICON 11A) (80244) GGG-S-TYPE 5		EA	2
22	8145-01-503-4404	SHELF, SHIPPING AND STORAGE, 09PD1, 1041A, (located in TRICON 11A) (Part of Transportation and Storage Subsystem)		EA	4
23	9540-01-491-3804	SHORING BEAM, 09PD1, 1059, (located in TRICON 11A) (Part of Transportation and Storage Subsystem)		EA	8

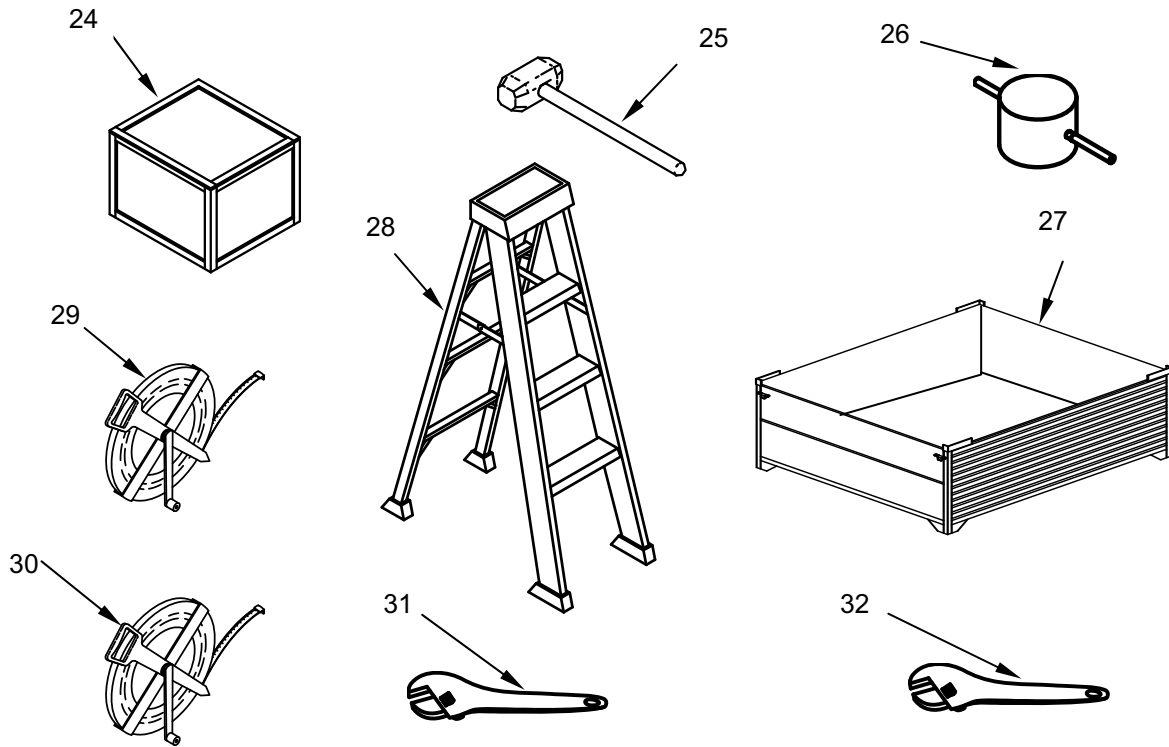
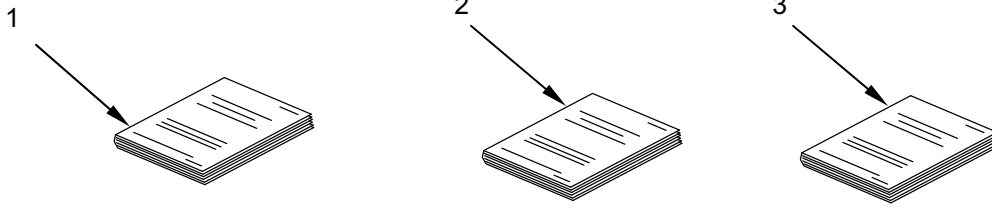


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
24	3610-01-219-6780	SIGN-MAKING KIT, PORTABLE (located in TRICON 11A) (81337) 5-7-190		KT	8
25	5120-00-900-6098	SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34 IN LONG (located in TRICON 11A) (58536) A-A-1293		EA	5
26	5120-01-013-1676	SLIDE HAMMER, GROUND ROD (located in TRICON 11A) (97403) 13226E7741		EA	1
27	5340-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN (located in TRICON 11A) (98313) FDC5770-5 (Part of Transportation and Storage Subsystem)		EA	4
28	5440-00-227-1592	STEP LADDER, 4', 250LB DUTY RATING, UL 112, TYPE I (located in TRICON 11A) (81348) LL-S-710		EA	2
29	5210-00-554-7087	TAPE, MEASURING, 100', OPEN REEL, FIBERGLASS (located in TRICON 11A) (81337) 9-1-0173		EA	2
30	5210-00-469-3423	TAPE, MEASURING, 300', OPEN REEL, FIBERGLASS (located in TRICON 11A) (81337) 9-1-0174		EA	1
31	5120-00-264-3796	WRENCH, ADJUSTABLE, 12" LONG, 1 5/16" JAW CAPACITY (located in TRICON 11A) (58536) A-A-2344		EA	5
32	5120-00-240-5328	WRENCH, ADJUSTABLE, 8" LONG, 5/16" JAW CAPACITY (located in TRICON 11A) (58536) A-A-2344		EA	5

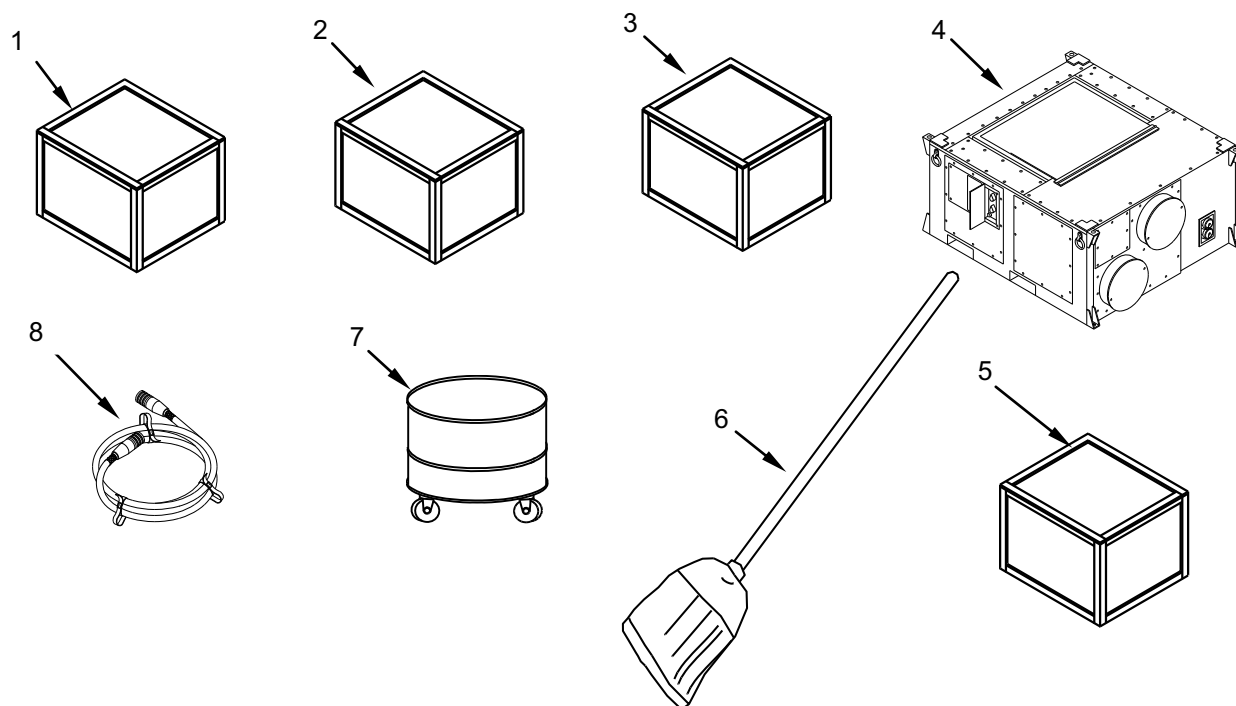


**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (DISE) AND POWER DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (PDISE) CONSISTING OF ELECTRIC FEEDER SYSTEM M200, M200 A/P, ELECTRICAL FEEDER SYSTEM M100, M100 A/P, ELECTRICAL DISTRIBUTION M40, M40 A/P, ELECTRICAL DISTRIBUTION SYSTEM M60, M60 A/P, ELECTRICAL ASSEMBLY M46 (located in TRICON 1A) TM 9-6150-226-13		EA	15
2	N/A	OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FORCE PROVIDER (located in TRICON 11A) TM 10-5419-206-13		EA	1
3	N/A	REPAIR PARTS AND SPECIAL TOOLS LIST FOR FORCE PROVIDER (located in TRICON 1A) TM 10-5419-206-23P		EA	1



**FORCE PROVIDER ADMINISTRATION SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	4110-00-287-3184	10K BTU REFER UNIT SYSTEM SUPPORT PACKAGE (located in TRICON 11B) (81337) 9-1-0684		PG	1
2	4320-01-357-1930	125 GMP SYSTEM SUPPORT PACKAGE (located in TRICON 11B) 9-1-0683, (81337)		PG	1
3	4110-01-166-3579	600 CU FT WALKIN REFER, SYSTEM SUPPORT PACKAGE (located in TRICON 11B) (81337) 9-1-0671		PG	1
4	4120-01-432-6408 OR MAY RECEIVE 4120-01-413-7835	AIR CONDITIONER, (ECU), 54 K BTUH, 208V, 3 PHASE, 50/60 HZ, HORIZONTAL (two located in TRICON12E) (97403) MIL-A-0083216; TA 13230E3500		EA	2
5	7310-01-386-5951	BEVERAGE DISPENSER MECHANICAL SYSTEM SUPPORT PACKAGE (located in TRICON 11B) (81337) 9-1-0682		PK	
6	7920-00-291-8305	BROOM, UPRIGHT (one located in TRICON 12E) (two located in TRICON 12F) (80244) H-B-0051 TYPE 2		EA	7
7	7920-00-926-5243	BUCKET, MOP, STEEL, OVAL, 16 QUART, W/ CASTERS (one located in TRICON 12E) (two located in TRICON 12F) (58536) A-A-262		EA	7
8	6150-01-220-5588	CABLE ASSEMBLY, POWER, 60 A, 100' LONG, (thirteen located in TRICON 11C) (four located in TRICON 12F) (81349) MIL-C-29184; PIN: M29184/3-02		EA	25

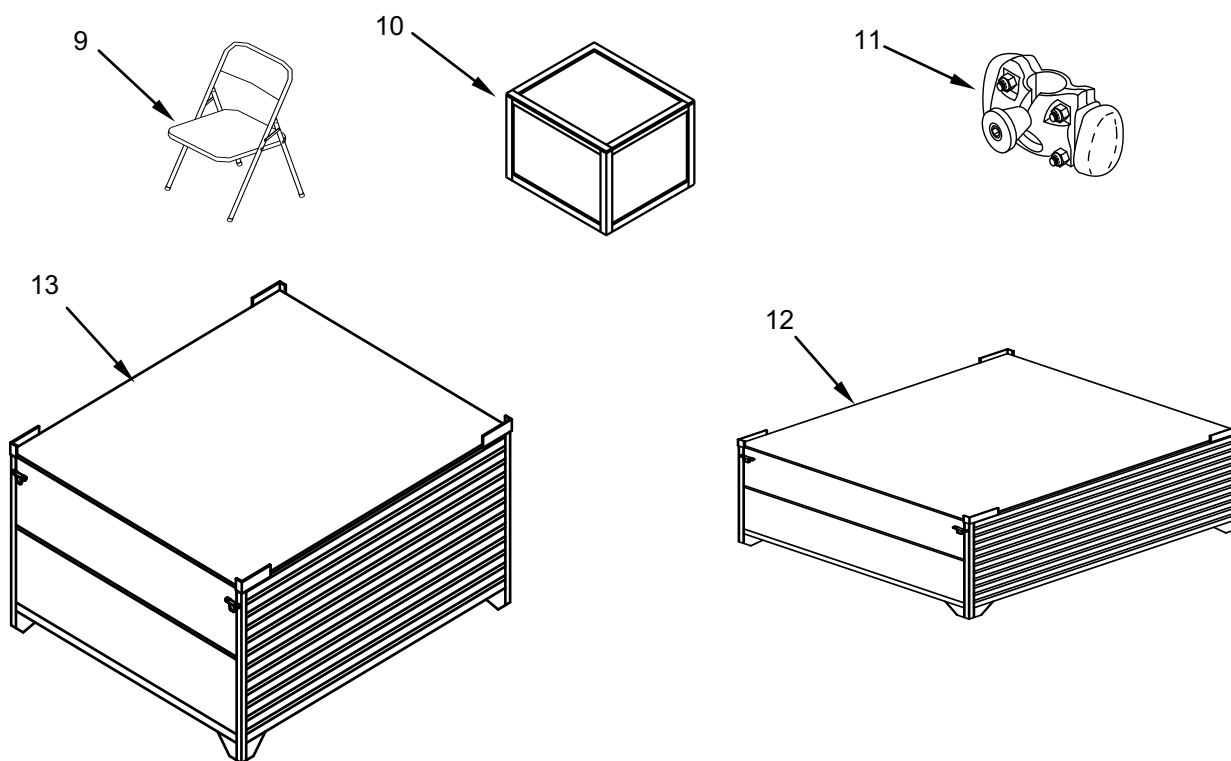


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
9	7105-00-269-8463	CHAIR, FOLDING, STEEL (five located in TRICON 11C) (ten located in TRICON 12B) (fourteen each located in 12C and 12E) (nine located in TRICON12F) (80244) AA-C-291; TYPE 1, CLASS 1		EA	126
10	7310-01-374-5832	COFFEE URN SYSTEM SUPPORT PACKAGE (located in TRICON 11B) (81337) 9-1-0681		PG	1
11		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 11B, C, 12E, and F) (Part of Transportation and Storage Subsystem)		EA	18
12	8145-01-415-4113	CONTAINER REUSABLE, BULK EQUIPMENT, SMALL (located in TRICON 11B) (81337) 9-1-0142-1		EA	3
13	8145-01-415-4827	CONTAINER, REUSEABLE, BULK EQUIPMENT, HALF SIZE (located in TRICON 11C) (81337) 9-1-0140-2		EA	1

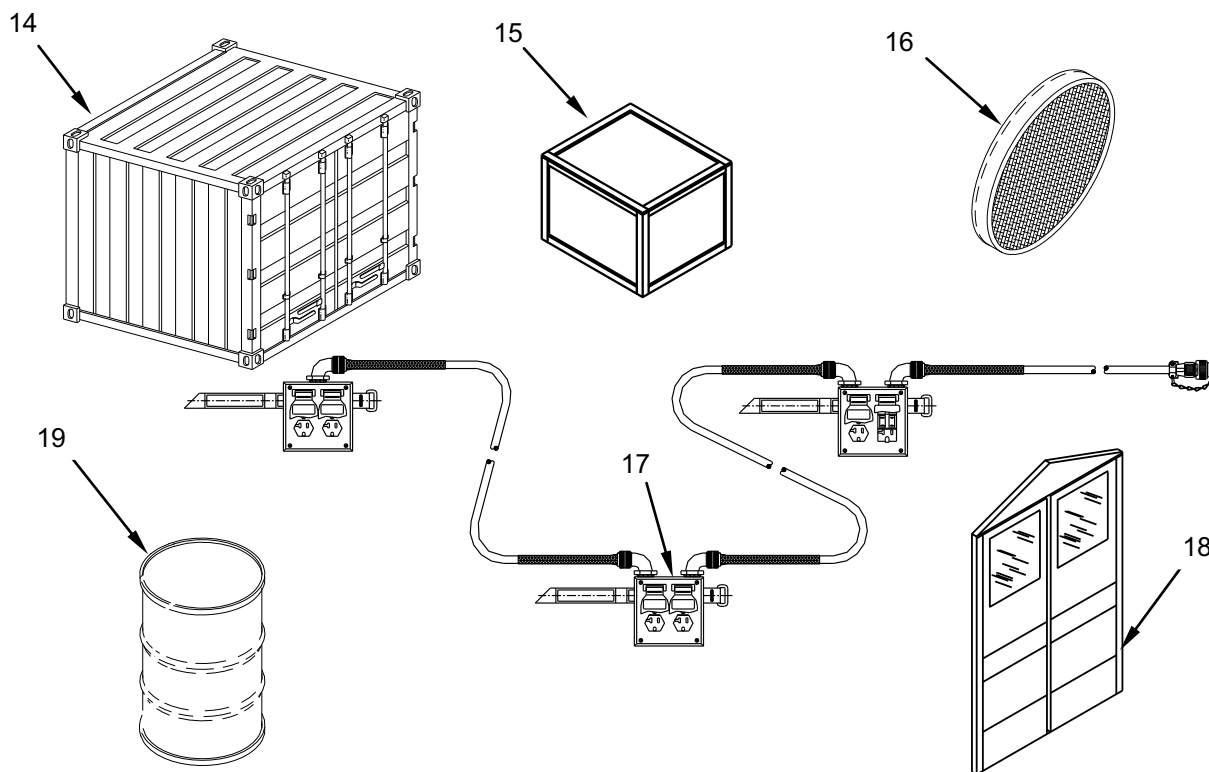


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
14	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) WITH CONNECTORS (TRICON 11B, 11C, 12E and 12F) (09PDO) (Part of Transportation and Storage Subsystem) BXTPCGATPD0003 – Green BXPCTATPD0003 – Tan		EA	6
15	3510-01-425-8708	CONTAINERIZED BATCH LAUNDRY SYSTEM SUPPORT PACKAGE (located in TRICON 11C) (81337) 9-1-0680		PK	1
16	4130-01-415-7300	DEBRIS SCREEN, AIR CONDITIONER DUCT ADAPTER (two located in TRICON 12C) (two located in TRICON 12E) (81337) 9-1-0146		EA	12
17	6150-01-470-1916	DISTRIBUTION SYSTEM, TEMPER CONVENIENCE OUTLET (located in TRICON 12F) (81337) 9-1-0624		EA	12
18	8340-01-263-2546	DOORS, DOUBLE BUMP-THROUGH, GREEN (listed in TRICON 12B, shipped in 11C) (81337) 5-4-4082-2		EA	7
19	8110-00-597-2353	DRUM, SHIPPING AND STORAGE, STEEL, 55- GALLON (located in TRICON 11C) (81349) PPP-D-729TYPE I, CLASS A		EA	5

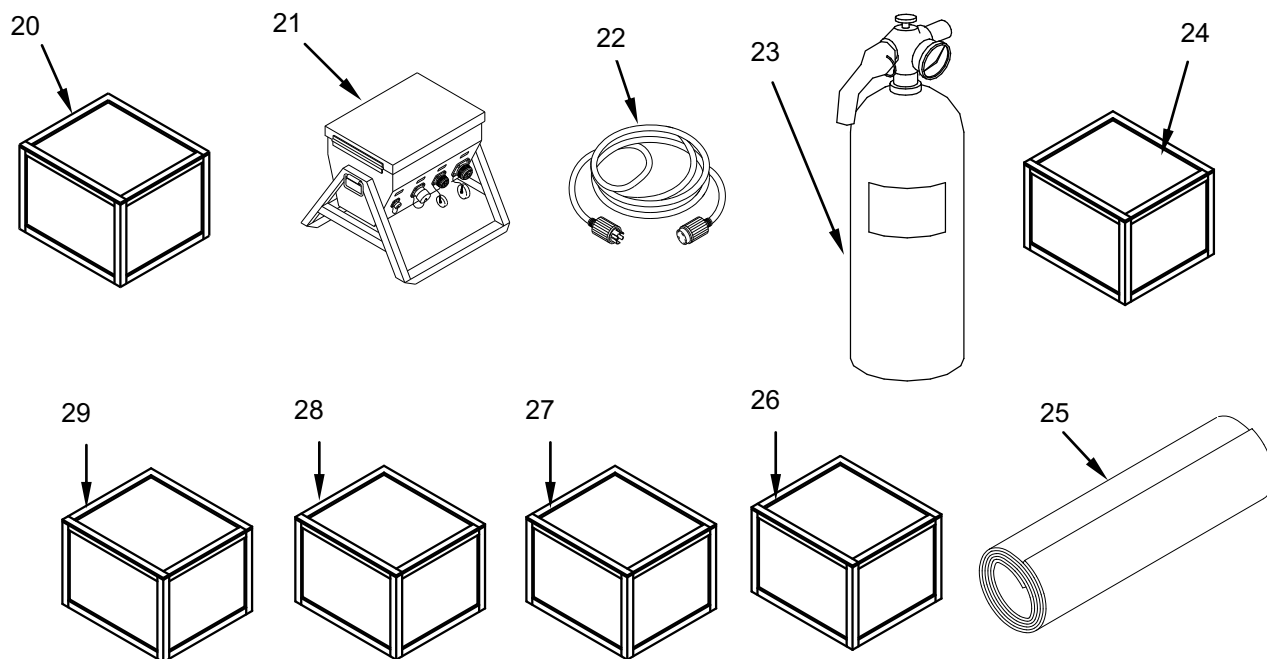


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
20	7310-01-420-6851	ELECTRIC OVEN, SYSTEM SUPPORT PACKAGE (located in TRICON 11B) (81337) 9-1-0679		PG	1
21	6150-01-307-9446	ELECTRICAL DISTRIBUTION SYSTEM PDISE M40 (listed in TRICON 11C, shipped in 11B) (97403) TA13229E6353		EA	4
22	6150-01-413-9314	EXTENSION CORD, 25', 120V, GFCI (located in TRICON 11C) (81337) 9-1-0183		EA	11
23	4210-00-889-2491	FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND (located in TRICON 12F) (80244) A-A-393, TYPE 1, CLASS 1, SIZE 10		EA	6
24		FLOODLIGHT SYSTEM SUPPORT PACKAGE (located in TRICON 11D) (81337) 9-1-0678		PG	1
25	7220-010-469-3424	FLOOR MAT, ALTERED ITEM (one located in TRICON 12E) (two located in TRICON 12F) (81337) 9-1-0189-1		EA	7
26		GENERAL PURPOSE SYSTEM SUPPORT ITEMS (located in TRICON 11B) (81337) 9-1-0638		PG	1
27		GRIDDLE SYSTEM SUPPORT PACKAGE HEG 48D (located in TRICON 11B) (81337) 9-1-0677	FSN, FSQ	PG	1
28	4120-01-432-6408	KECO ECU, SYSTEM SUPPORT PACKAGE, (located in TRICON 11B) , (81337) 9-1-0676		PG	1
29		LATRINE SYSTEM SUPPORT PACKAGE (located in TRICON 3A) (81337) 9-1-0675-2		PG	1



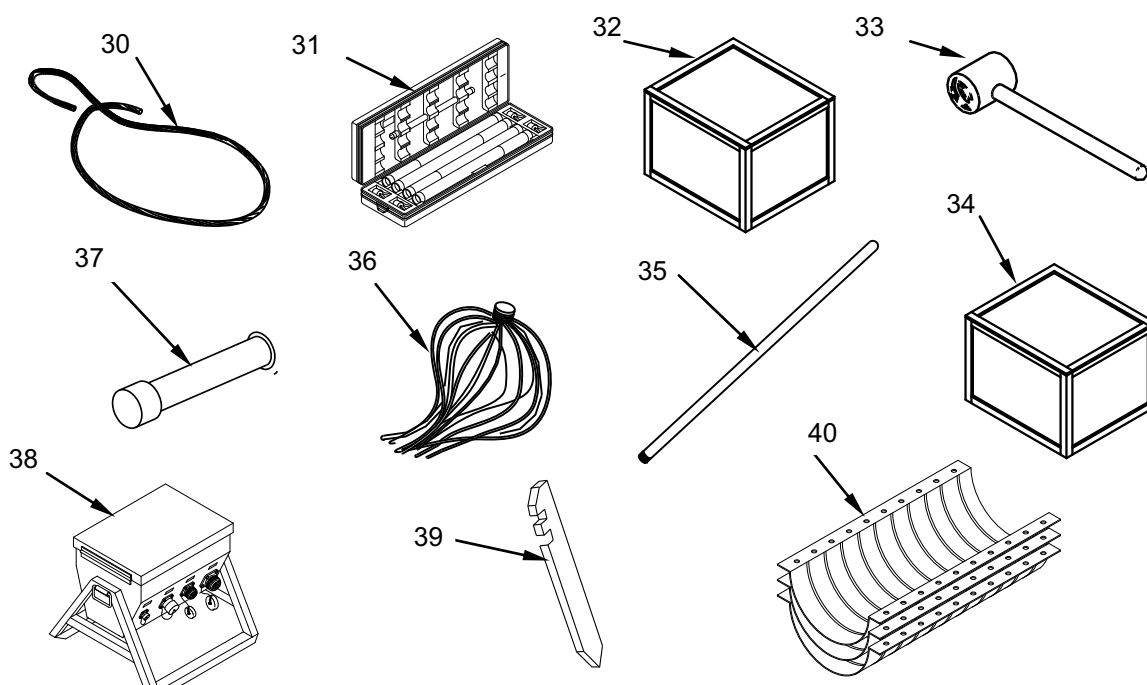


Table 1. Components of End Item List - Continued

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
30	6150-01-392-4191	LEAD, ELECTRICAL (GROUNDING CABLE) (located in TRICON 11C) (97403) 13220E1127		EA	9
31	6230-01-242-2016	LIGHT SET, FLUORESCENT (located in TRICON 12F) (17023) BR205		EA	12
32	4520-01-162-0385	M80 WATER HEATER SYSTEM SUPPORT PACK (located in TRICON 11B) (81337) 9-1-0674		PG	1
33	5120-00-926-7116	MALLET, WOOD, 6" FACE X 8" LONG HEAD (located in TRICON 12F) (80244) LLL-M-71, TYPE IX		EA	3
34	7320-01-454-0871	MEAT SLICER SYSTEM SUPPORT PACKAGE (located in TRICON 11B) (81337) 9-1-0673		PK	1
35	7920-00-267-1218	MOP HANDLE (located in TRICON 12F) (80244) MM-H-101, TYPE 1, CLASS 1, SIZE B		EA	6
36	7520-00-141-5550	MOP HEAD, WET (one located in TRICON 12E) (two located in 12F) (80244) T-M-561, TYPE 1, STYLE 1, CLASS 15		EA	7
37	4730-00-595-1103	NOZZLE, GARDEN HOSE (located in TRICON 11C) (04024) 5100-243		EA	1
38	6150-01-308-5671	PDISE M100 (one each located in TRICON 12E and 12F) (97403) TA13229E6351		EA	4
39	8340-00-261-9751	PIN, TENT, WOOD, SIZE 2 (24") (located in TRICON 11C) (81349) MIL-P-2383 SIZE 2		EA	110
40	4710-00-273-1041	PIPE, CULVERT, NESTABLE, STEEL, 12" DIA., ROUND, FLANGED HALF SECTIONS WITH BOLTS AND NUTS (located in TRICON 11A) (81349) M236A112		EA	120

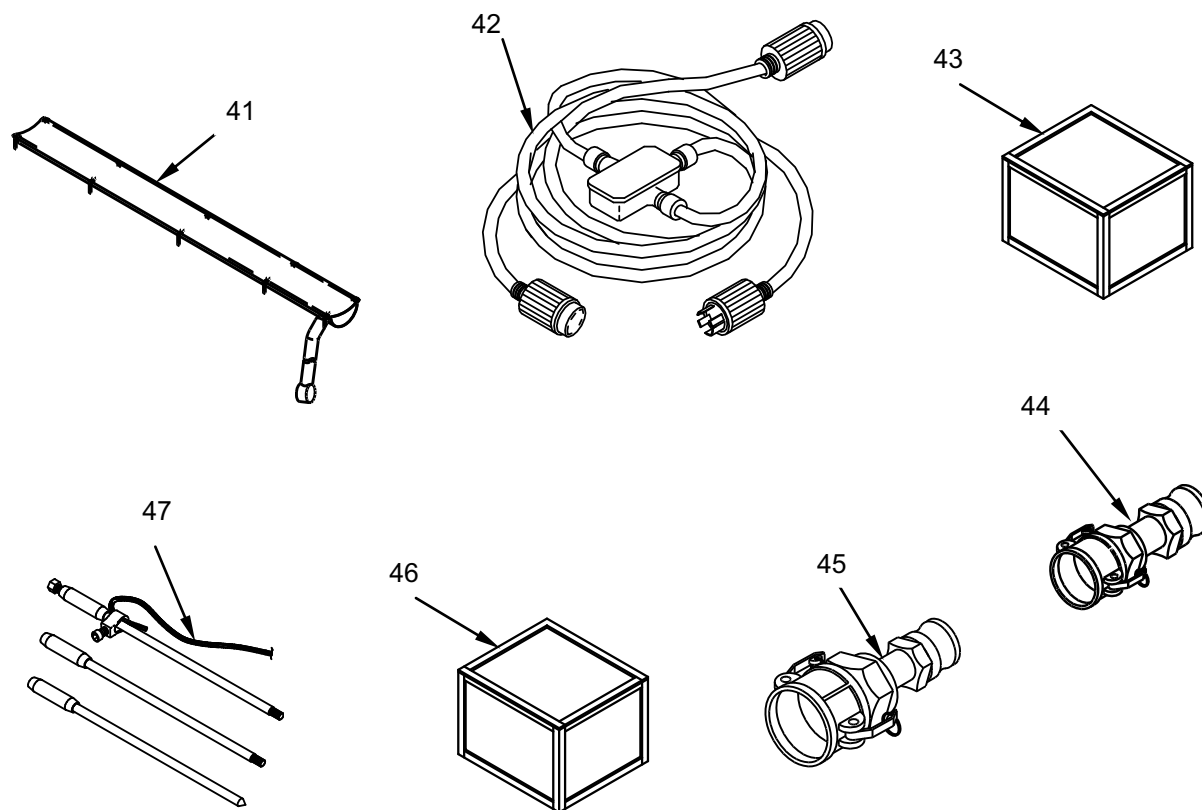


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
41	8340-01-186-3035	PLENUM, END WALL, TEMPER (seven located in TRICON 11C) (two located in TRICON 12F) (81337) MIL-T-44243; 5-4-3614		EA	13
42	6150-01-214-0135	POWER CABLE ASSEMBLY TEE, 20A (located in TRICON 11C) (81337) 6-1-8222-1		EA	3
43		POWER GENERATION EQUIPMENT AND ELECTRICAL SUPPORT PACKAGE (located in TRICON 11B) (81337) 9-1-0672		PG	1
44	4730-01-951-3295	REDUCER, QDISC, CAM-LOCK, 2" F X 1 1/2" M (located in TRICON11C) (96906) MS 49000-5		EA	4
45	4730-01-064-0560	REDUCER, QDISC, CAM-LOCK, 4" F X 2" M (located in TRICON11C) (96906) MS 49000-17		EA	4
46	8340-00-262-5767	REPAIR KIT, TENTAGE (located in TRICON 11C) (81337) 8340-90-CL-POL		KT	1
47	5975-00-878-3791	ROD, GROUND, SECTIONAL, TYPE III, CLASS B, WITH ATTACHMENTS (located in TRICON 11C) (81348) W-R-550A		EA	48

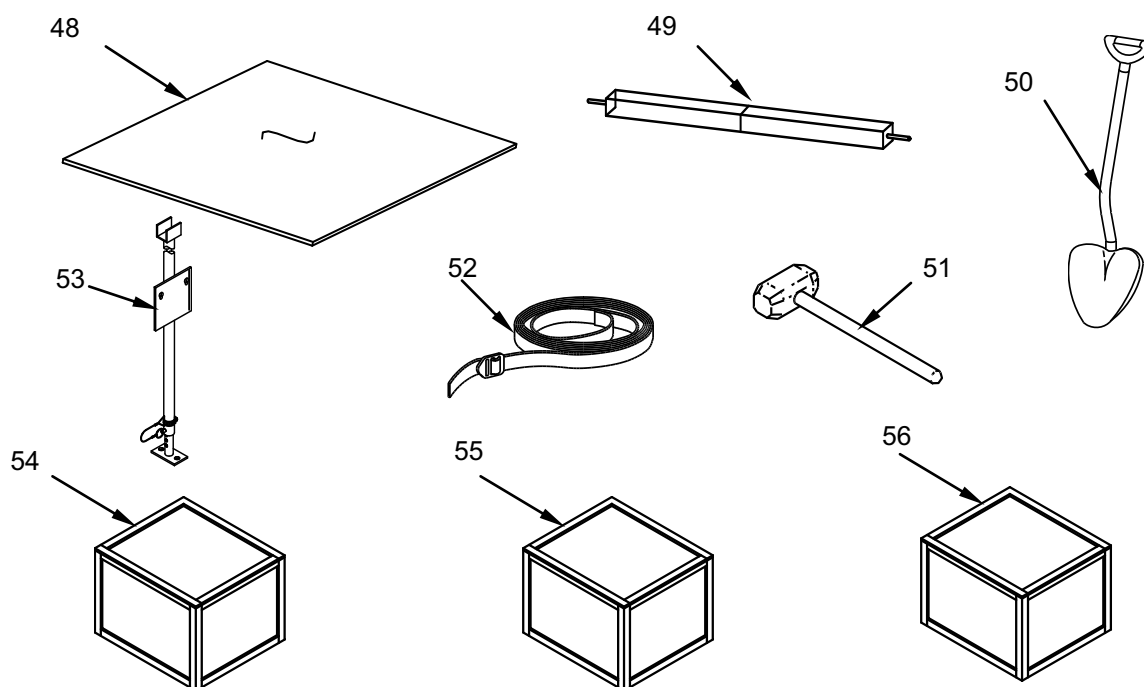


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
48	8145-01-503-4404	SHELF, SHIPPING AND STORAGE, 09PD1, 1041A, (located in TRICON 12 E and 12F) (Part of Transportation and Storage Subsystem)		EA	8
49	9540-01-491-3804	SHORING BEAM, 09PD1, 1059, (located in TRICON 12E, 12 F) (Part of Transportation and Storage Subsystem)		EA	28
50	5120-00-293-3336	SHOVEL, ROUND POINT, D HANDLE (one located in TRICON 12E) (two located in TRICON 12F) (80244)		EA	7
51	5120-00-900-6098	GGS-S-326, TYPE IV, CLASS A, STYLE I SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34" LONG (located in TRICON 12F) (58536) A-A-1293		EA	3
52	5340-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN (two located in TRICON 11B) (twenty-seven located in TRICON 11C) (four located in TRICON 12E) (98313) FDC5770-5		EA	33
53	6110-01-242-6691	STAND DISTRIBUTION BOX, TEMPER (located in TRICON12F) (81337)1-6-6005		EA	6
54		STEAM KETTLE, 20 GAL SYSTEM SUPPORT PACKAGE (located in TRICON 11B) (81337) 9-1-0648		PG	1
55		STEAM KETTLE, 6 GAL SYSTEM SUPPORT PACKAGE (located in TRICON 11B) (81337) 9-1-0647	FSN, FSQ	PG	1
56	7310-LL-STSSP01	STEAM TABLE SYSTEM SUPPORT PACKAGE (located in TRICON11B), 9-1-0646, (81337)		PG	1

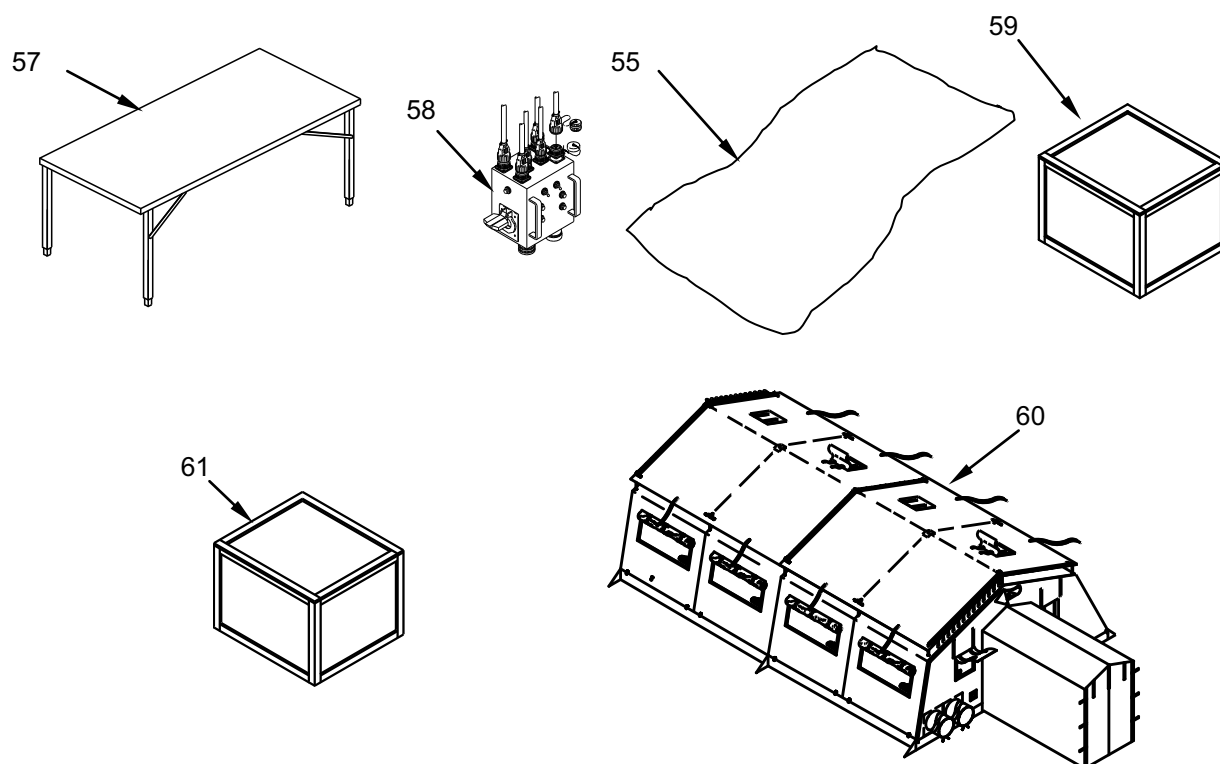
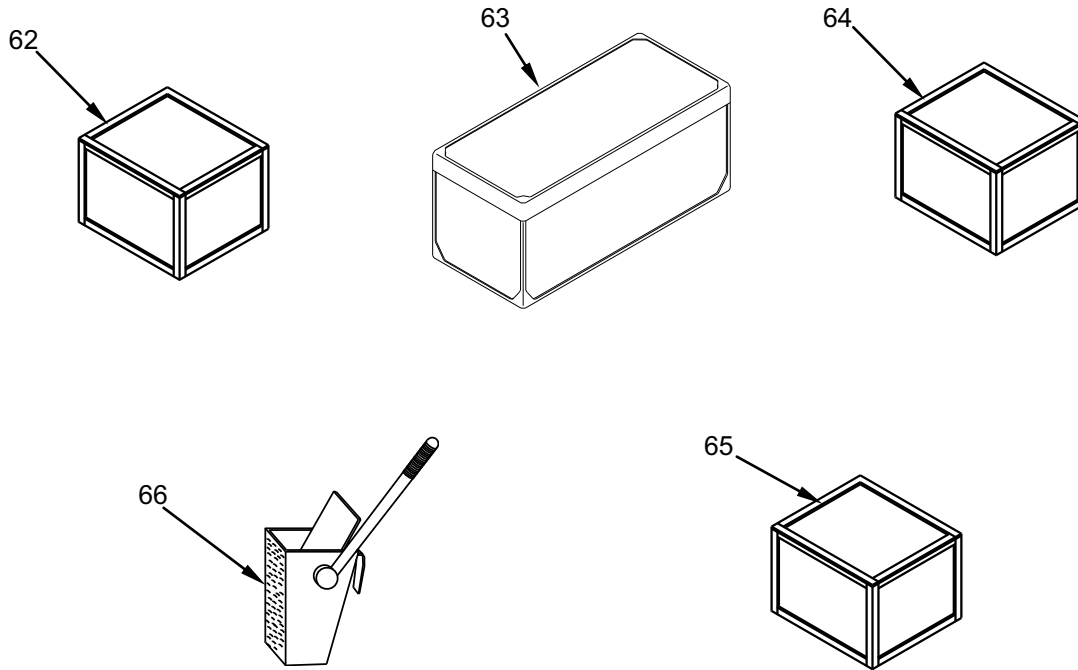


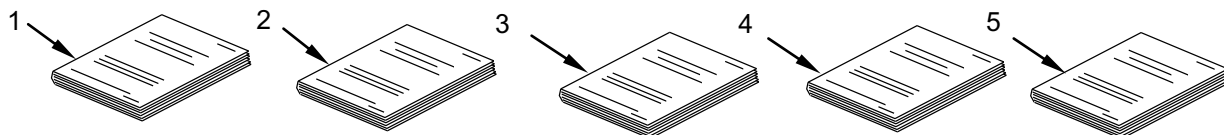
Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
57	7110-01-415-6895	TABLE, FOLDING, 6', ALUMINUM (four located in TRICON 12F) (81337) 9-1-0191		EA	12
58	6110-01-251-0402	TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V (located in TRICON 12F) (81337) MIL-E-44258; TYPE III, 1-6-6041		EA	6
59	8340-01-186-3019	TENT COVER, D/T TEMPER (located in TRICON 12F) (81337) 5-4-3359-1	FSN	EA	3
59	8340-01-198-7620	TENT COVER, D/T TEMPER (located in TRICON 10L) (81337) 5-4-3359-2	FSQ	EA	3
60		TENT SYSTEM SUPPORT PACKAGE (located in TRICON 11B) (81337) 9-1-0645		PG	1
61	8340-01-196-6272	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE IV, 32 FT, COLOR-GREEN (located in TRICON 12F) (81349) MIL-T-44271-TYPE IV	FSN	EA	6
61	8340-01-185-2628	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE IV, 32 FT, COLOR-TAN (located in TRICON 12F) (81349) MIL-T-44271-TYPE IV	FSQ	EA	6



**Table 1. Components of End Item List – Continued.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
62	7310-00-758-8564	TILT GRIDDLE SYSTEM SUPPORT PACKAGE, LGAR106 (located in TRICON11B) (81337) 9-1-0644		PG	1
63	8460-00-243-3234	TRUNK, LOCKER, 2 TRAYS (ten each located in TRICON 12E) (eight located in TRICON 12F) (81349) MIL-T-10798		EA	34
64		WASTE WATER EVACUATION SYSTEM SUPPORT PACKAGE (located in TRICON 11B) (81337) 9-1-0718		PG	1
65		WATER DISTRIBUTION AND PLUMBING SYSTEM SUPPORT PACKAGE (located in TRICON 11C) (81337) 9-1-0643		PG	1
66	7920-00-682-6861	WRINGER, MOP (one located in TRICON 12E) (two located in TRICON12F) (58536) A-A-261		EA	7

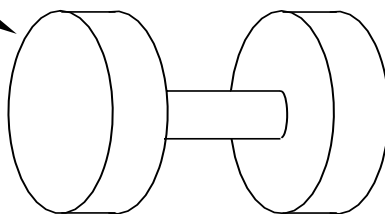


**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR AIR CONDITIONER 54,000 BTU/HR, 208/230 VOLT 3 PHASE, 50/60 HERTZ MODEL AH-54, TM 9-4120-398-14 (located in TRICON 12E) OR OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FIELD DEPLOYABLE ENVIRONMENTAL CONTROL UNITS MODELS FDECU-2, FDECU-4 AND FDECU-4 9NSN 4120-01-449-459 TM 9-4120-411-14 (located in TRICON 12E)		EA	2
2	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (DISE) AND POWER DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (PDISE) CONSISTING OF ELECTRIC FEEDER SYSTEM M200, M200 A/P, ELECTRICAL FEEDER SYSTEM M100, M100 A/P, ELECTRICAL DISTRIBUTION M40, M40 A/P, ELECTRICAL DISTRIBUTION SYSTEM M60, M60 A/P, ELECTRICAL ASSEMBLY M46 (four located in TRICON 11C) (one each located in TRICON 12E and 12F) TM 9-6150-226-13		EA	8
3	N/A	OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FORCE PROVIDER (located in TRICON 12E) TM10-5419-206-13		EA	1
4	N/A	REPAIR PARTS AND SPECIAL TOOLS LIST FOR FORCE PROVIDER (located in TRICON 12E) TM 10-5419-206-23P		EA	1
5	N/A	UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL, REPAIR PARTS AND SPECIAL TOOLS LIST FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (located in TRICON 12F) TM 10-8340-224-23P		EA	3

**FORCE PROVIDER MWR SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**

Items 1- 21



**Table 1. Components of End Item List**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
<b>NOTE</b>					
ITEMS 1 – 21 ARE LOCATED IN CONTAINER 11D AND PACKAGED IN MANUFACTURER'S ORIGINAL BOXES, OR CONSOLIDATED INTO REUSABLE FIBERBOARD CONTAINERS					
1	7830-01-468-5802	10 LB DUMBELL (0FZP5) CHHEX10X		EA	2
2	7830-01-468-5875	100 LB DUMBELL (0FZP5) CHHEX100		EA	2
3	7830-01-468-5807	15 LB DUMBELL (0FZP5) CHHEX15X		EA	6
4	7830-01-468-5812	20 LB DUMBELL (0FZP5) CHHEX20X		EA	6
5	7830-01-468-5816	25 LB DUMBELL (0FZP5) CHHEX25X		EA	6
6	7830-01-468-5801	3 LB DUMBELL (0FZP5) CHHEX3XX		EA	2
7	7830-01-468-5823	30 LB DUMBELL (0FZP5) CHHEX30X		EA	6
8	7830-01-468-5832	35 LB DUMBELL (0FZP5) CHHEX35X		EA	6
9	7830-01-468-5833	40 LB DUMBELL (0FZP5) CHHEX40X		EA	6
10	7830-01-468-5836	45 LB DUMBELL (0FZP5) CHHEX45X		EA	6
11	7830-01-468-5801	5 LB DUMBELL (0FZP5) CHHEX5XX		EA	2
12	7830-01-468-5837	50 LB DUMBELL (0FZP5) CHHEX50X		EA	6
13	7830-01-468-5840	55 LB DUMBELL (0FZP5) CHHEX55X		EA	6
14	7830-01-468-5844	60 LB DUMBELL (0FZP5) CHHEX60X		EA	2
15	7830-01-468-5847	65 LB DUMBELL (0FZP5) CHHEX65X		EA	2
16	7830-01-468-5849	70 LB DUMBELL (0FZP5) CHHEX70X		EA	2
17	7830-01-468-5853	75 LB DUMBELL (0FZP5) CHHEX75X		EA	2
18	7830-01-468-5858	80 LB DUMBELL (0FZP5) CHHEX80X		EA	2
19	7830-01-468-5860	85 LB DUMBELL (0FZP5) CHHEX85X		EA	2
20	7830-01-468-5863	90 LB DUMBELL (0FZP5) CHHEX90X		EA	2
21	7830-01-468-5867	95 LB DUMBELL (0FZP5) CHHEX95X		EA	2

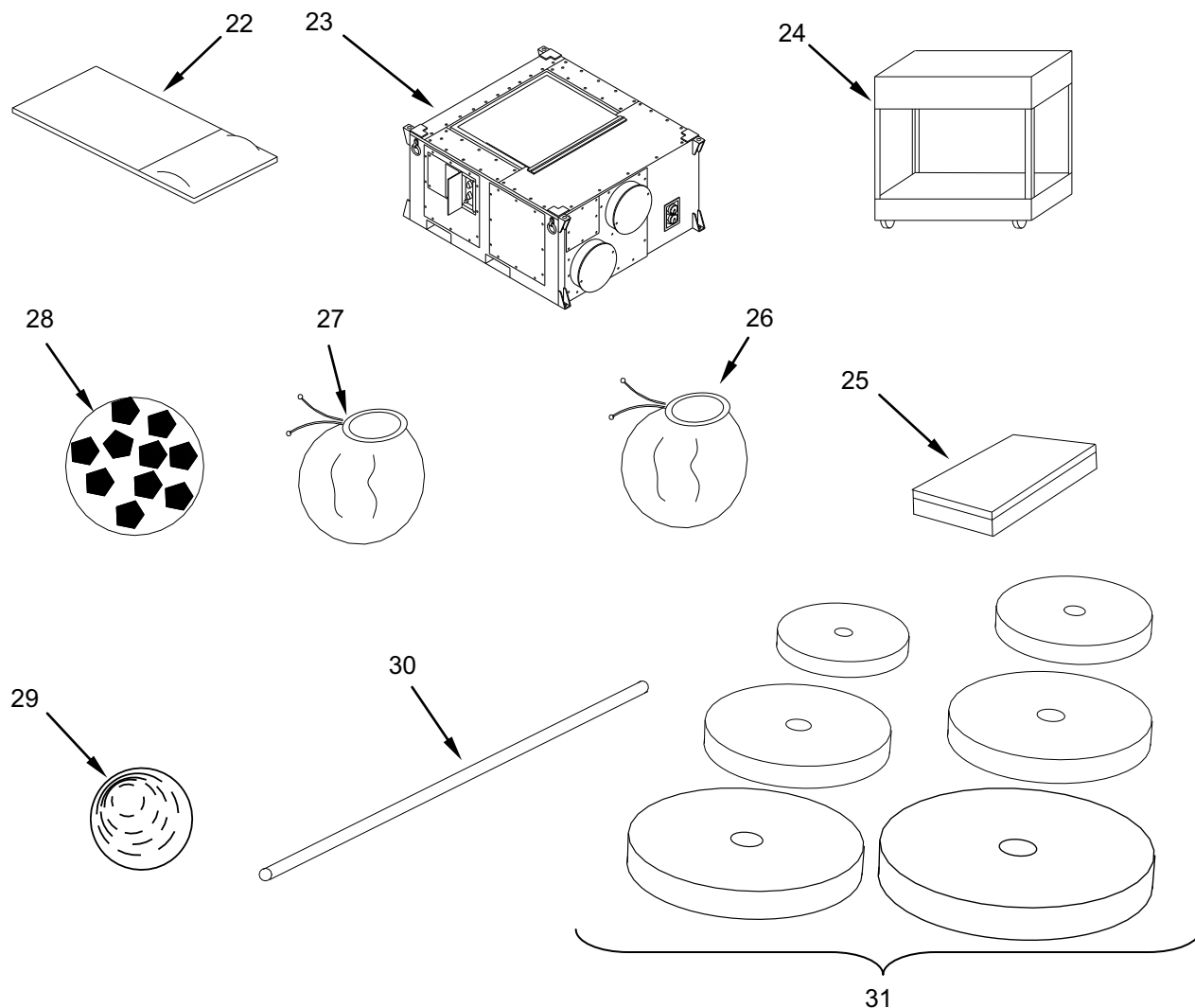


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
22		ABDOMINAL SITUP BOARD (0FZP5) 01810211		EA	2
23	4120-01-432-6408 OR MAY RECEIVE 4120-01-413-7835	AIR CONDITIONER, (ECU), 54 K BTUH, 208V, 3 PHASE, 50/60 HZ, HORIZONTAL (two located in TRICON 12C) (97403) MIL-A-0083216; TA 13230E3500		EA	10
24	5820-01-469-7549	AV CART, ADJUSTABLE (52437) A2642E4		EA	1
25		BACKGAMMON GAME (0FZP5) NA631XXX		EA	4
26	5836-01-471-2497	BAG, PROJECTOR, VIDEO (55719) SX1000		EA	1
27	5695-01-471-2495	BAG, SPEAKER, STAND (55991) CC-450		EA	1
28	7810-00-468-8298	BALL, SOCCER (0FZP5) 4448XXXX		EA	6
29	7810-00-634-0187	BALL, TENNIS TABLE (4J202) 18111		EA	5
30	7830-01-468-6087	BARBELL 6 CHROME BAR (0FZP5) CHCPBXXX		EA	2
31	7830-01-468-6090	BARBELL SET (0FZP5) CHCOS310		EA	3



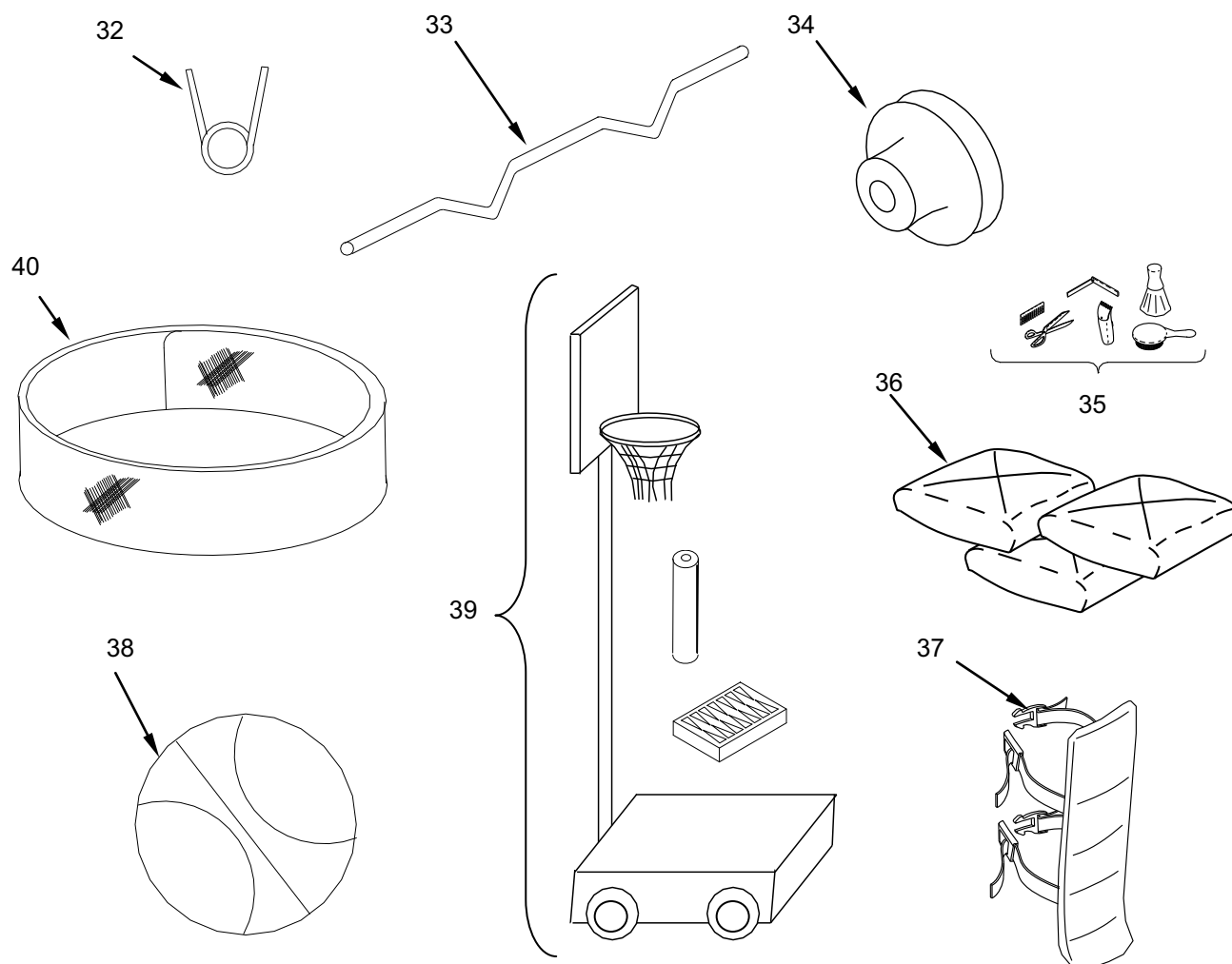


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
32	7830-01-468-6089	BARBELL SPRING COLLAR (0FZP5) WSPRGCOL		EA	3
33	7830-01-055-8565	BARBELL, INTERNATIONAL CURL BAR (0FZP5) CHCOCBXX		EA	2
34	7830-01-468-6117	BARBELL, PLATE HOLDER, OLYMPIC (0FZP5)		EA	2
35	3590-00-058-1837	BARBER KIT (located in TRICON 12B) (81349) MIL-B-1771		EA	5
36	7810-00-273-9564	BASE SET, BASEBALL (0FZP5) MCBASSE55		EA	3
37	7810-00-823-9840	BASEBALL LEG GUARD, BLACK (0FZP5) MCB61		EA	2
38	7810-01-468-7191	BASKETBALL (0FZP5) MCX6000X		EA	12
39	7810-00-264-9724	BASKETBALL PORT, GOAL AND STAND (0FZP5) STBBGADJ		EA	2
40	7830-01-468-7301	BELT, WEIGHT LIFTING, EXTRA LARGE (0FZP5) CHCTBXL		EA	3

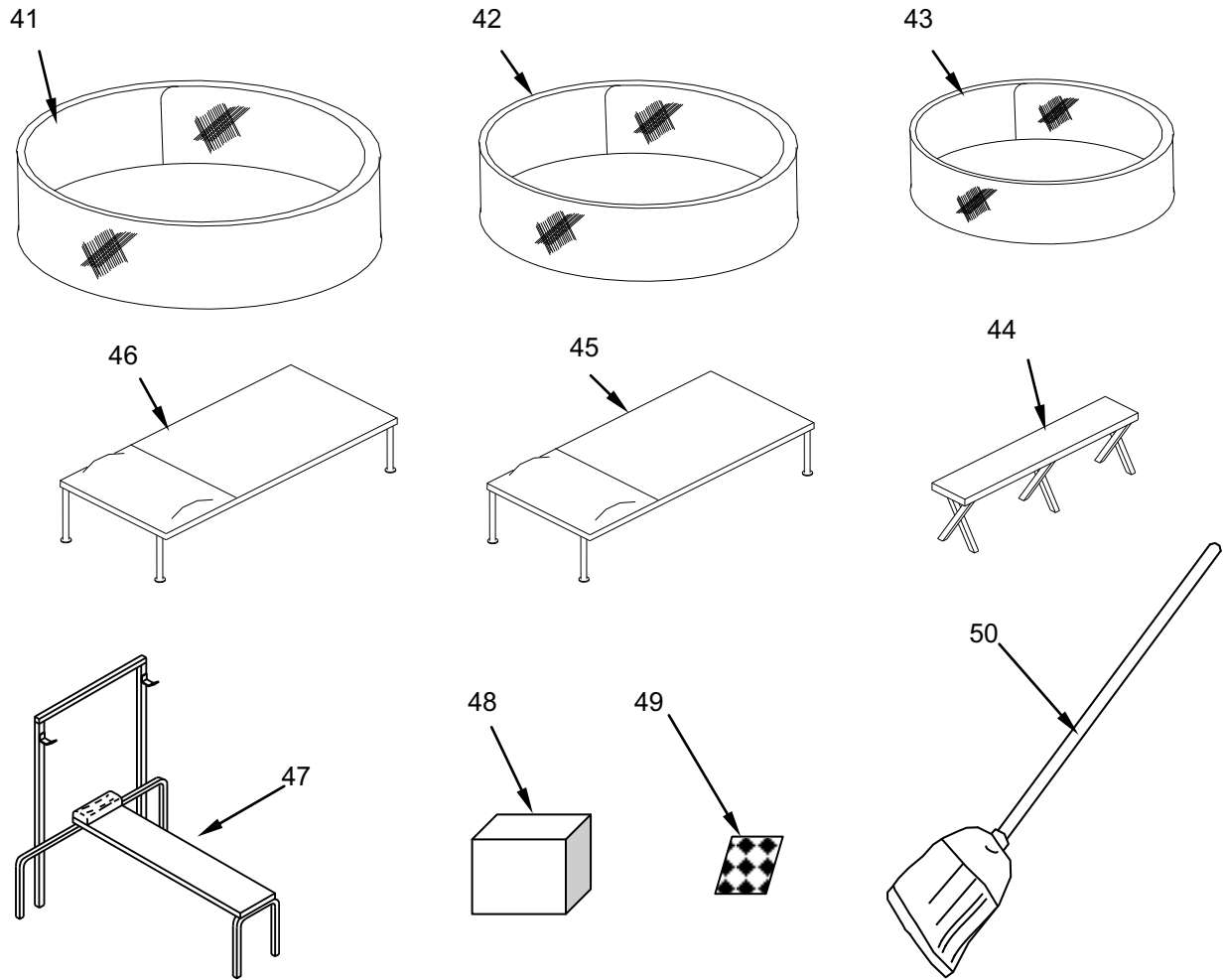


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
41	7830-01-468-7282	BELT, WEIGHT LIFTING, LARGE (0FZP5) CHCTBLG		EA	3
42	7830-01-468-7273	BELT, WEIGHT LIFTING, MEDIUM (0FZP5) CHCTBMD		EA	3
43	7830-01-468-7267	BELT, WEIGHT LIFTING, SMALL (0FZP5) CHCTBSM		EA	3
44	7110-01-415-6896	BENCH, 6' (located in TRICON 12B) (81337) 9-1-0187		EA	2
45	7830-01-457-9089	BENCH, CURL (0GGK9) BE207		EA	1
46		BENCH, SEATED, MULTIPURPOSE, GYMNASTIC (0FZP5) 01601111		EA	1
47		BENCH, WEIGHTLIFTER, PRESS (0FZP5) 01811711		EA	3
48		BOX DICE GAME HVD-8190		EA	8
49		BRIDGE CARDS (0FZP5) NACP-1XX		EA	200
50	7920-00-291-8305	BROOM, UPRIGHT (located in TRICON 12A) (80244) H-B-0051, TYPE 2		EA	2

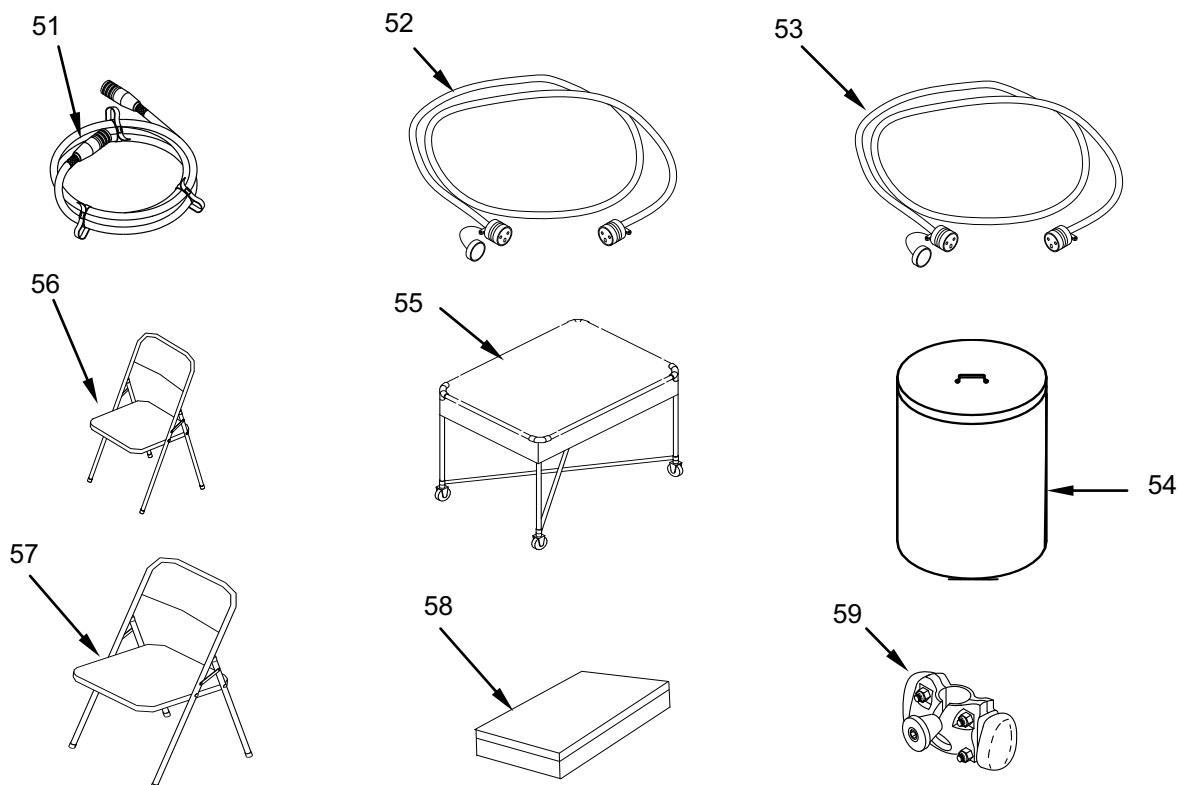
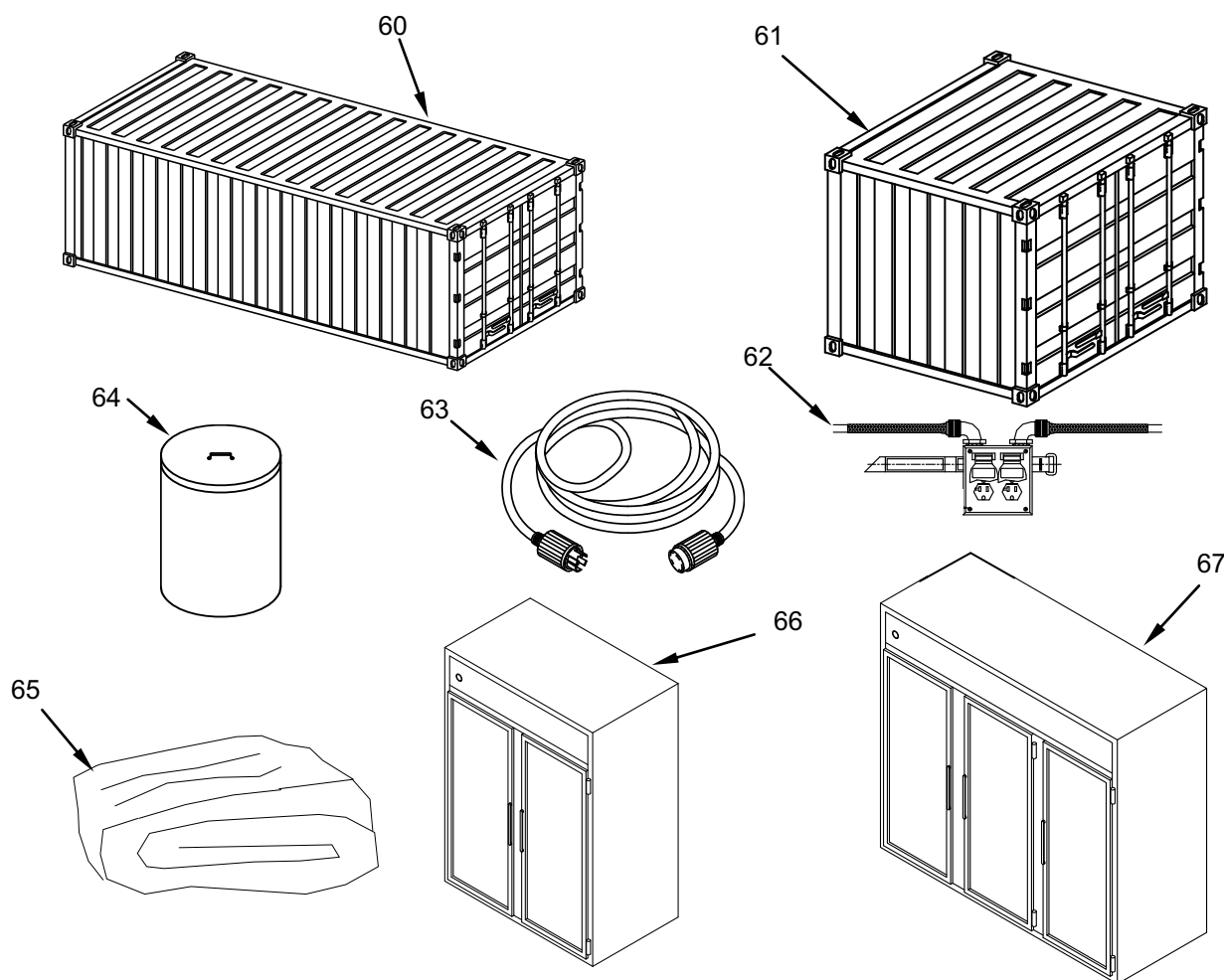


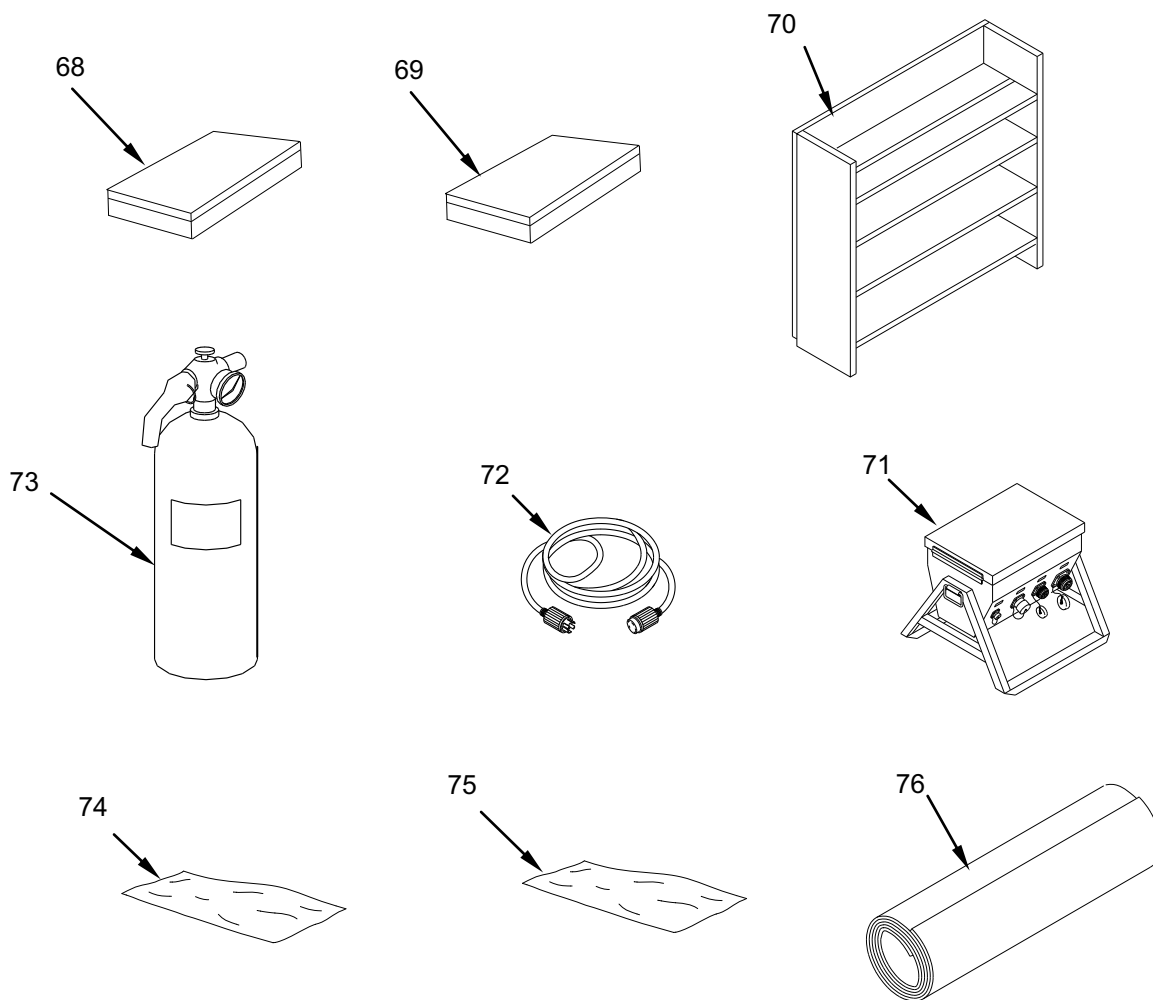
Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
51	6150-01-220-5588	CABLE ASSEMBLY, POWER, ELECTRICAL, 60 A, 100 FT (located in TRICON 12A) (81349) M29184/3-02		EA	8
52	5995-01-471-2492	CABLE EXTENSION, MICROPHONE, EXPLORER (55991) EX-50M		EA	1
53	5995-01-471-2490	CABLE EXTENSION, SPEAKER, EXPLORER (55991) SC-50		EA	1
54	7240-00-160-0440	CAN, ASH AND GARBAGE, 32 GALLON, STEEL, GALVANIZED (located in TRICON 12B) (58536) A-A-1069		EA	30
55	5820-01-469-7550	CART, TV (52437) BB48-EW		EA	1
56	7105-00-269-8463	CHAIR, FOLDING, STEEL (located in TRICON 11G and 11H) AA-C-291, TYPE 1, CLASS 1 (80244)		EA	75
57	7105-00-269-8463	CHAIR, FOLDING, STEEL (ten located in TRICON 12B) (fourteen located in 12C) (80244) AA-C-291; TYPE 1, CLASS 1		EA	80
58	7820-00-271-1792	CHESSE/ BACKGAMMON / CHECKERS GAME (0FZP5) NA636XXX		EA	8
59		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 11G, 11H, 12A, B, and C) (Part of Transportation and Storage Subsystem)		EA	30



**Table 1. Components of End Item List**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
60	8115-01-488-6545	CONTAINER, ISO, 20 FT, END OPENING (11D) (14153) A-A-52034A TY I		EA	1
61	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE-TRIPLE (TRICON) WITH CONNECTORS (TRICON 11G, 11H, 12A, 12B and 12C) (09PDO) BXTPCGATPD0003 – Green BXTPCTATPD0003 – Tan		EA	10
62	6150-01-470-1916	CONVENIENCE OUTLET ASSEMBLY, 3 DROP (located in TRICON 12A) (81337) 9-1-0624		EA	8
63	6150-00-485-6149	CORD, EXTENSION, 25', 125V, 14AWG (80244) J-C-1270 ST3, CL2, SE3 GRHKD1		EA	11
64	7240-00-161-1143	COVER, CAN, ASH AND GARBAGE (located in TRICON 12B) (58536) A-A-1069		EA	30
65	5965-01-452-4036	COVER, LOUDSPEAKER (55991) VL-25		EA	1
66	4110-01-412-8896	CRC REFRIGERATOR, 2RDS (located in TRICON 11G) (28233) 2DR-SS		EA	1
67	4110-01-471-3543	CRC REFRIGERATOR, 3RDS (located in TRICON 11G) (28233) 3R-SS		EA	1



(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
68		CRIBBAGE BOARD GAME (0FZP5) 2257XXXX		EA	4
69	7810-00-279-0029	DOMINOS GAME (0FZP5) 2240XXXX		EA	4
70		DUMBELL RACK, 12 PAIR WITH CRADLE (0FZP5) 01811100		EA	2
71	6150-01-308-5671	ELECTRICAL FEEDER SYSTEM, PDISE M100 (located in TRICON 12A) (56853) TA13229E6351		EA	2
72		EXTENSION CORD, 50' (located in TRICON 12C) (07909) 02293		EA	5
73	4210-00-889-2491	FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND (located in TRICON 12A) (80244) A-A-393, TYPE 1, CLASS 1, SIZE 10		EA	4
74	7810-00-468-6998	FLAG FOOTBALL SET, BLUE (0FZP5) MSSFTBLX		EA	2
75	7810-00-468-6999	FLAG FOOTBALL SET, RED (0FZP5) MSSFTRED		EA	2
76	7220-01-469-3424	FLOOR MAT, ALTERED ITEM (located in TRICON 12A) (81337) 9-1-0189-1		RO	4

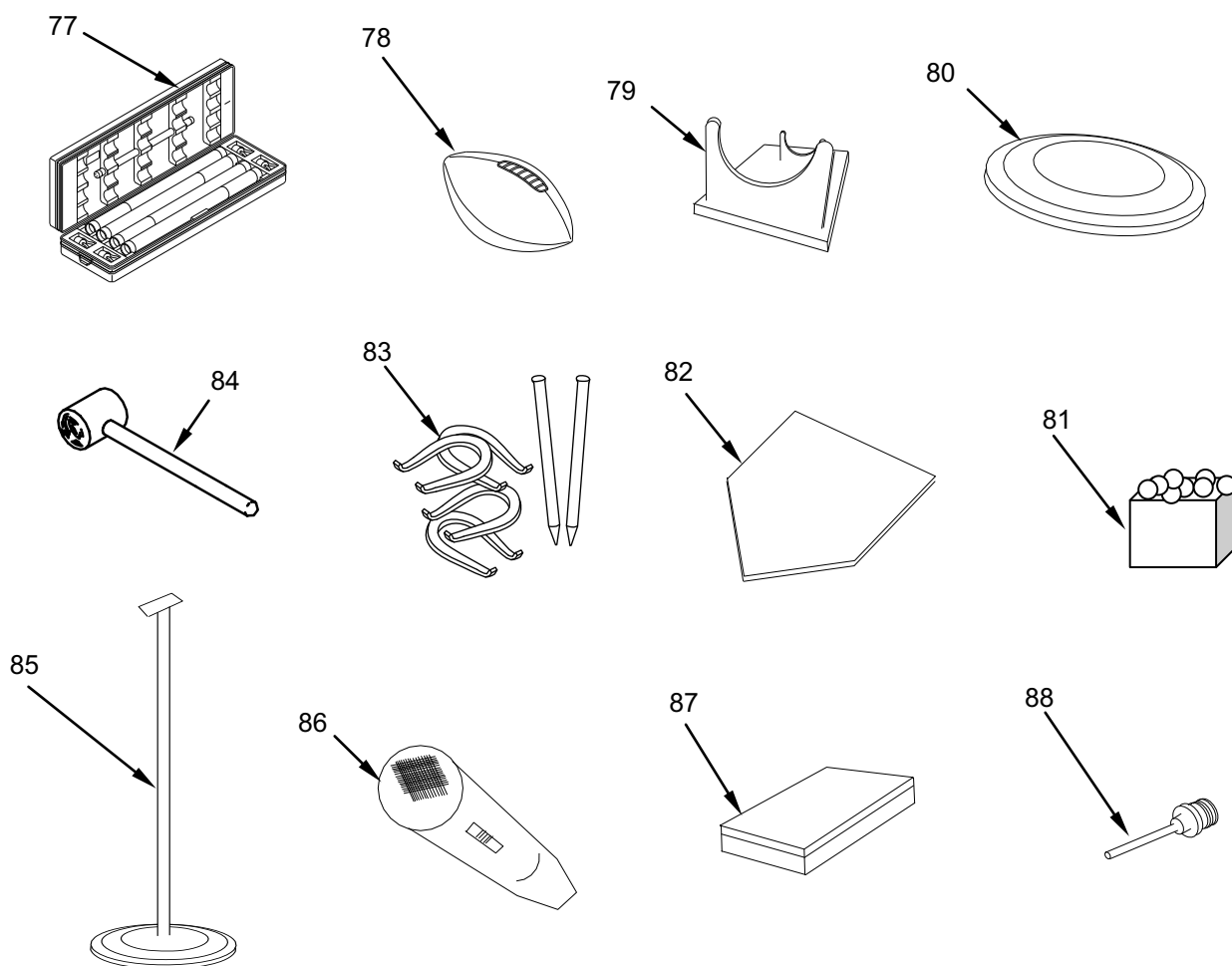


Table 1. Components of End Item List - Continued

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
77	6230-01-242-2016	FLUORESCENT LIGHT SET, GENERAL (three located in TRICON 11D) (four located in TRICON 12A) (17023) BR2005		EA	11
78	7810-00-995-2055	FOOTBALL (66023) F1250		EA	10
79	7810-00-859-5591	FOOTBALL KICKING TEE (0FZP5) MSKICKOF		EA	6
80	7810-00-468-6954	FRISBEE, 10" (0FZP5) MSDIS140		EA	25
81		GAME CHIPS PCH-100		EA	4
82	7810-00-233-6200	HOME PLATE (0FZP5) BBHPXXXX		EA	3
83	7820-00-234-8461	HORSESHOE SET (0FZP5) 3219XXXX		EA	2
84	5120-00-926-7116	MALLET, WOOD, 6" FACE X 8" LONG HEAD (located in TRICON 12A) (80244) LLL-M-71, TYPE IX		EA	2
85	5965-01-471-2493	MICROPHONE STAND W/BOOM, EXPLORER (55991) MSB-201		EA	1
86	5965-01-471-2498	MICROPHONE, HAND (55991) MIC-90		EA	1
87	7810-00-944-9697	MONOPOLY (0FZP5) 4034XXXX		EA	4
88		NEEDLE, INFLATING (0FZP5) MSNEDPAC		EA	6

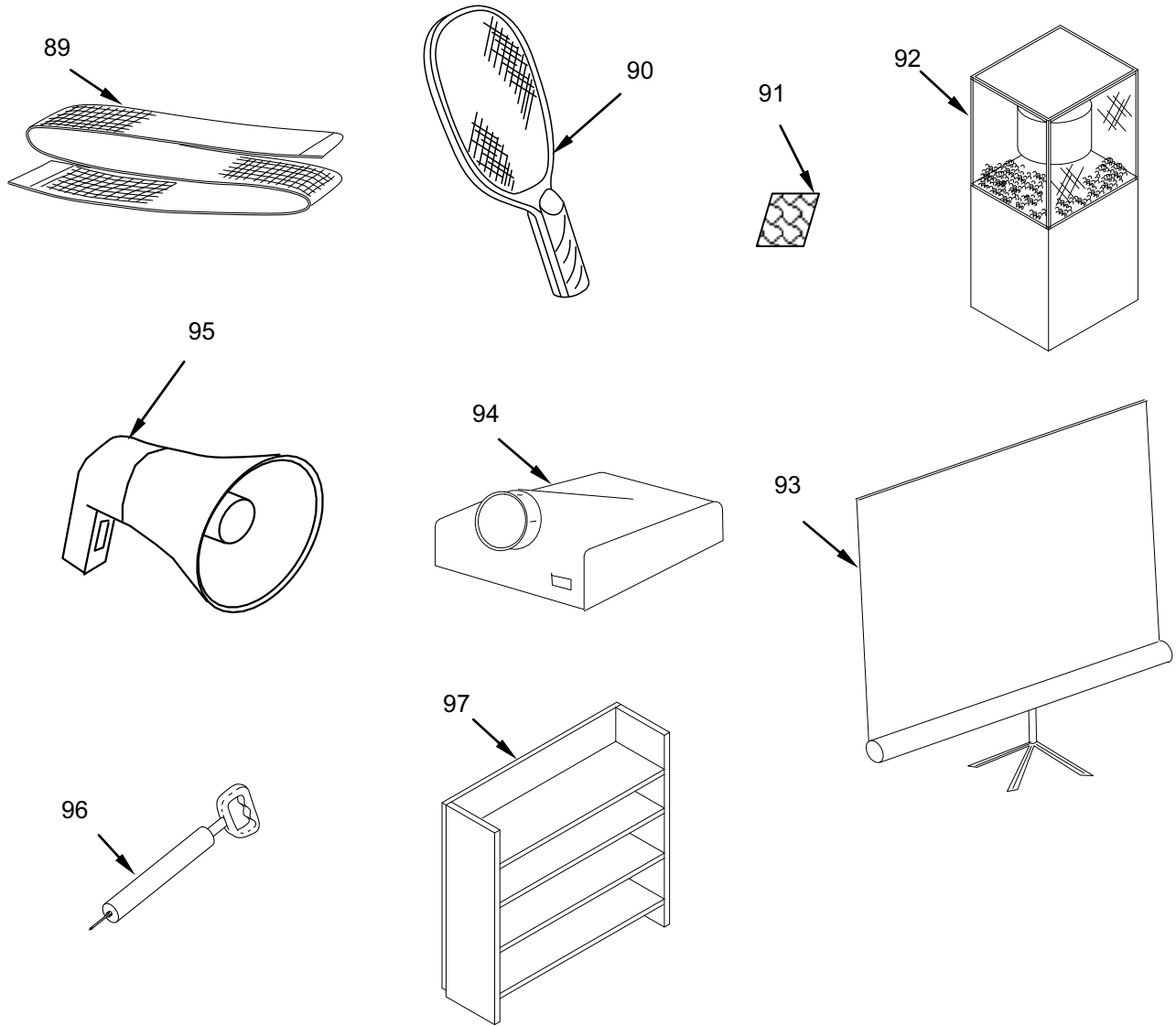


Table 1. Components of End Item L List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
89	7810-00-663-0252	NET, TENNIS TABLE (0FZP5) NANP3XXX		EA	4
90	7810-00-663-0544	PADDLE, TENNIS TABLE (0FZP5) GG-NAR3XXXX		EA	12
91	7820-01-055-0586	PINOCHLE (0FZP5) NAPC-2XX		EA	100
92	7310-01-302-1173	POPCORN MACHINE, 120V (19677) PC-1A		EA	1
93	6730-01-018-6684	PROJECTOR SCREEN, 70X70, SILVER LENTICULAR (52437) 3070B		EA	2
94	6730-01-471-2476	PROJECTOR, MULTIMEDIA (75940) LXD1000U		EA	1
95	5830-01-471-2801	PUBLIC ADDRESS SYSTEM (55991) PA-2500		EA	1
96		PUMP, INFLATING, MANUAL (0FZP5) MSTTPBSN		EA	4
97	7195-01-078-3927	RACK, DISPLAY, BOOK (24170) 8200-08		EA	1

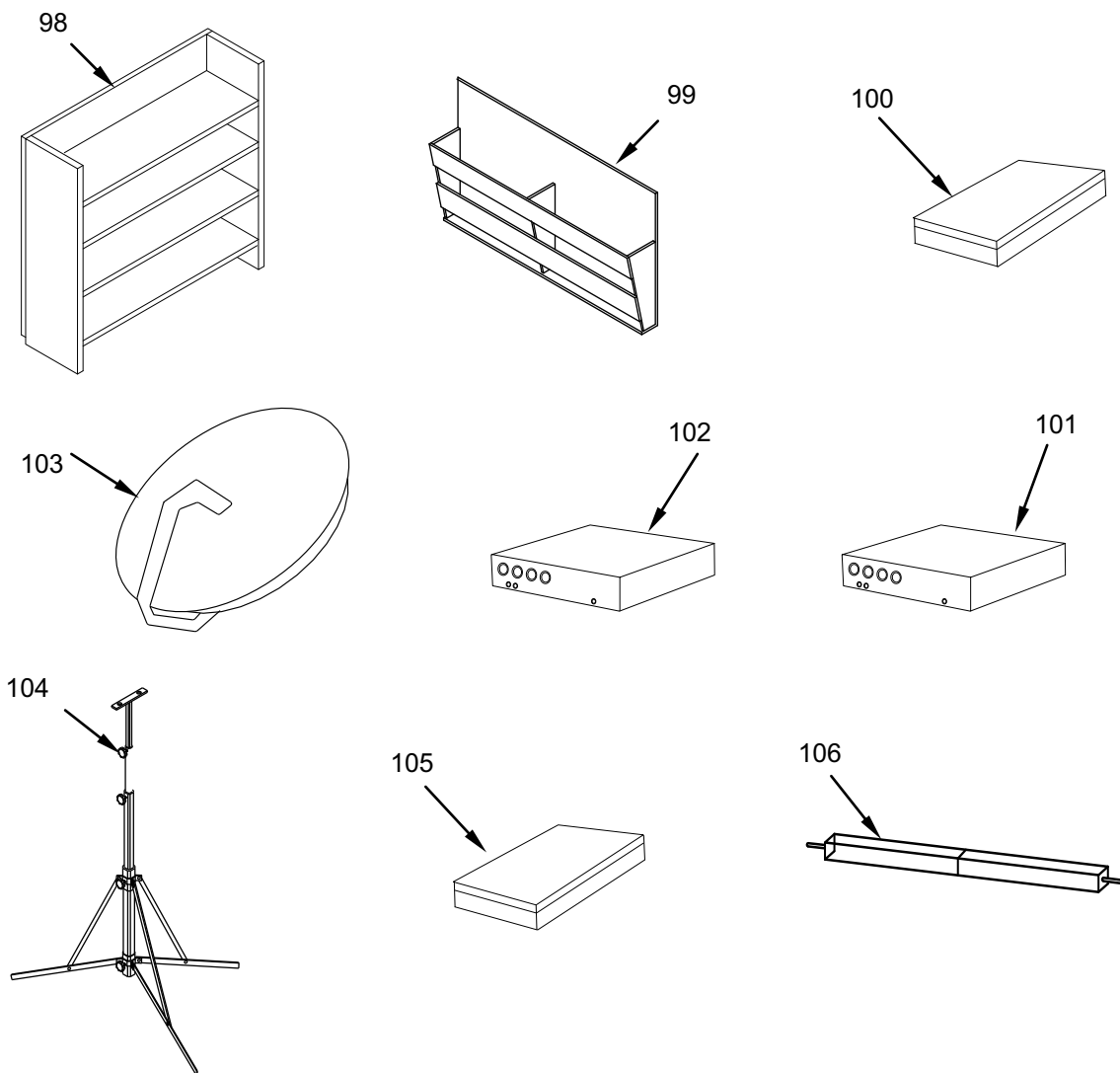


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
98	7195-01-077-5416	RACK, DISPLAY, BOOK (24170) 8624-01		EA	3
99	7195-01-077-5414	RACK, NEWSPAPER (24170) GND10L		EA	1
100	7810-01-468-6113	RISK GAME (0FZP5) 4037XXXX		EA	2
101		SATELLITE DISH, 1.8 METER, C-BAND, TVRO (94661) 1183-710		EA	1
102		SATELLITE LNB, C-BAND (0VA65) 8915		EA	1
103	5895-01-471-4038	SATELLITE RECEIVER/DECODER, INTEGRATED (42061) 803-302		EA	1
104		SATELLITE STAND, DISH (94661) 0800-763		EA	1
105	7810-00-468-6585	SCRABBLE GAME (0FZP5) 4044XXXX		EA	4
106	8145-01-503-4404	SHELF, SHIPPING AND STORAGE, 09PD1, 1041A, (located in TRICON 11H, 12A, 12B, and 12C) (Part of Transportation and Storage Subsystem)		EA	19



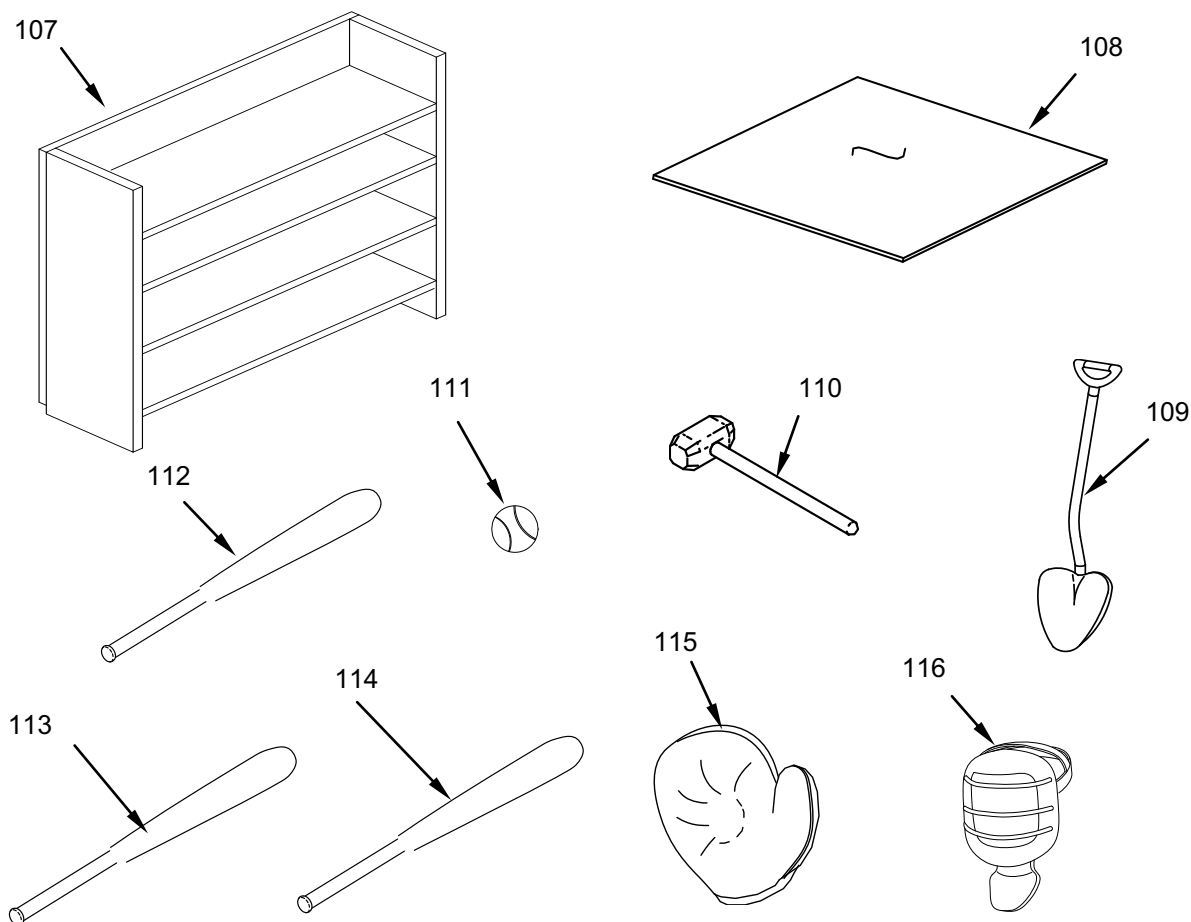


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
107	7125-00-063-6377	SHELF, STORAGE AND DISPLAY (located in TRICON 11H) (14570) ESTEY		EA	17
108	9540-01-491-3804	SHORING BEAM, 09PD1, 1059, (located in TRICON 11H, 12A, 12B, and 12C) (Part of Transportation and Storage Subsystem)		EA	49
109	5120-00-293-3336	SHOVEL, ROUND POINT, D HANDLE (located in TRICON 12A) (80244)		EA	4
110	5120-00-900-6098	GGG-S-326, TYPE IV, CLASS A, STYLE I SLEDGE HAMMER, 12 POUND, FIBERGLASS HANDLE, 34" LONG (located in TRICON 12A) (58536) A-A-1293		EA	2
111	7810-00-249-3462	SOFTBALL (66023) A9214		EA	8
112		SOFTBALL BAT, 32", 24OZ (0FZP5) MCX9SB32		EA	4
113		SOFTBALL BAT, 33", 25OZ (0FZP5) MCX9SB33		EA	8
114		SOFTBALL BAT, 34", 26OZ (0FZP5) MCX9SB34		EA	8
115	7810-00-242-4322	SOFTBALL CATCHER MITT (66023) A1871		EA	2
116	7810-00-242-4319	SOFTBALL CATCHER'S MASK (0FZP5) MCB2CXXX		EA	2

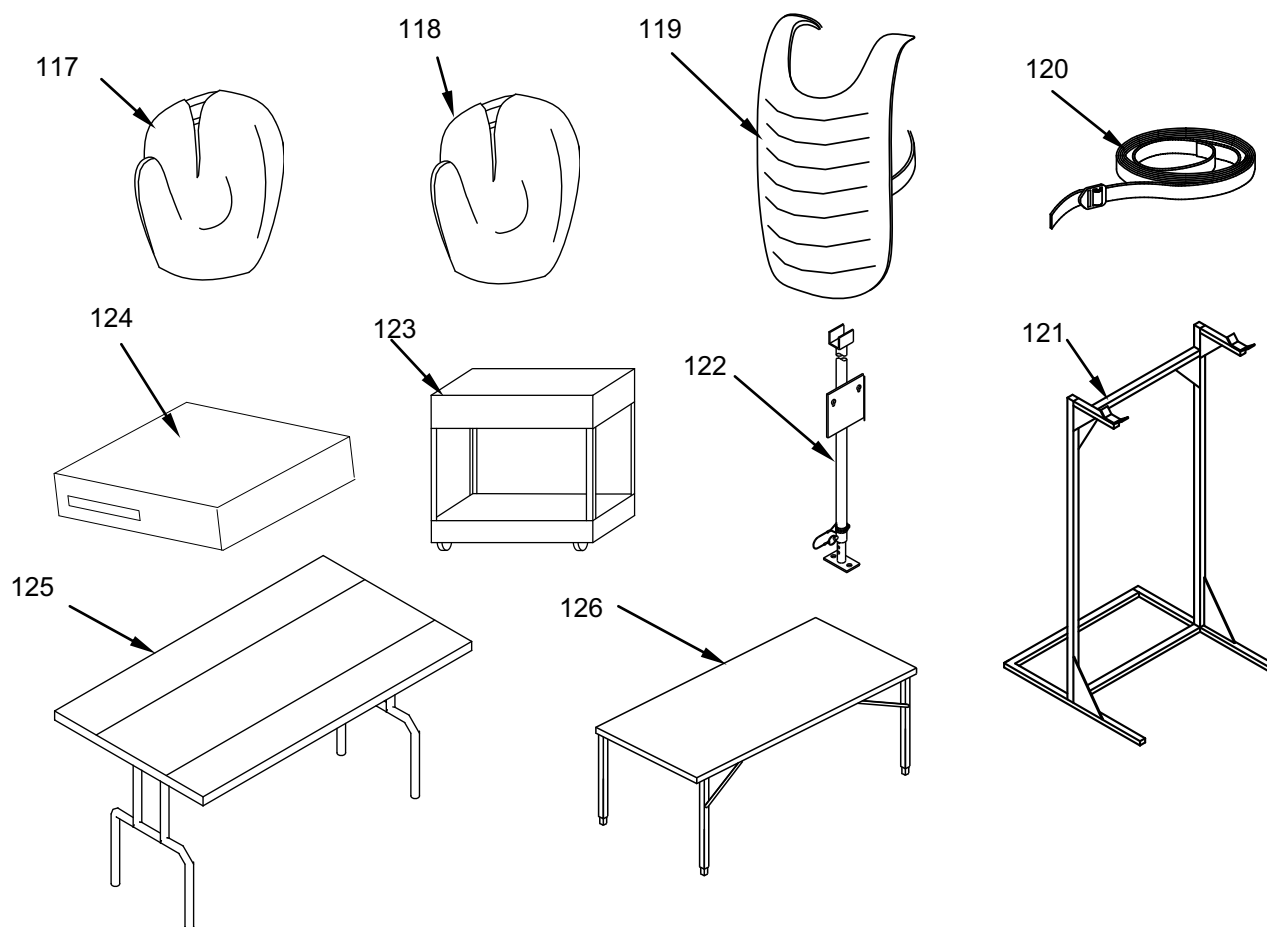


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
117	7810-00-242-4318	SOFTBALL MITT, FIELDER'S LEFT (0FZP5) BBFBPROX		EA	4
118	7810-00-242-4317	SOFTBALL MITT, FIELDER'S RIGHT (66023) A1883		EA	20
119	7810-00-242-4345	SOFTBALL, CATCHER'S BODY GUARD (66023) A3431		EA	4
120	3990-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN (four each located in TRICON 11D, 11H and 12C) (two located in TRICON 11G) (three located in TRICON 11B) (98313) FDC5770-5		EA	33
121		SQUAT RACK, GYMNASTIC (0FZP5) 01812600		EA	1
122	6110-01-242-6691	STAND, DISTRIBUTION BOX, TEMPER (located in TRICON 12A) (81337) 1-6-6005		EA	4
123	5965-01-452-4039	STAND, SPEAKER, HEAVYDUTY, EXPLORER (55991) SS-451		EA	1
124	5835-01-471-5848	STEREO, AM/FM/CD/CASSETTE (2L642) MHC-RX33		EA	1
125	7110-01-415-6895	TABLE, FOLDING, 6', ALUMINUM (located in TRICON 11D) 9-1-0191 (81337)		EA	1
126	7110-01-415-6895	TABLE, FOLDING, 6', ALUMINUM (located in TRICON 12B) (81337) 9-1-0191		EA	6

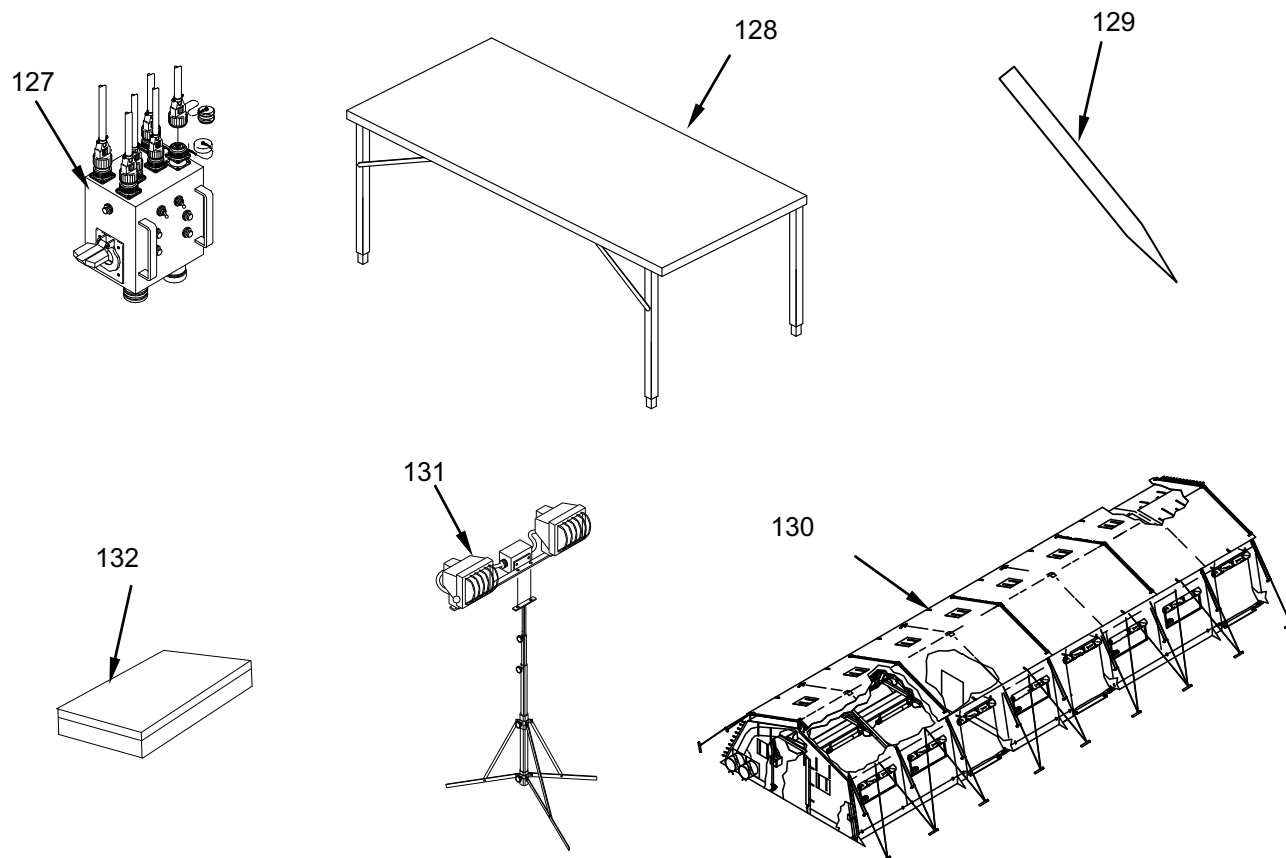


Table 1. Components of End Item L List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
127	6110-01-251-0402	TEMPER ELECTRICAL DISTRIBUTION BOX, TYPE III, 120V (located in TRICON 12A) (81337) MIL-E-44258, TYPE III 1-6-6041		EA	4
128		TENNIS TABLE (FZP5) TT8287		EA	2
129	8340-00-985-7461	TENT PIN, STEEL, 18" (located in TRICON 12A) (81337) 5-4-196		EA	212
130	8340-01-185-2616	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE XVII, 64', COLOR – GREEN (located in TRICON 12A) MIL-T-44271 (81337)	FSM, FSN	EA	2
130	8340-01-443-7338	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE XVII, 64', COLOR – TAN (located in TRICON 12A) (81337) MIL-T-44271	FSP, FSQ	EA	2
131		TRIPOD FLOODLIGHT, 1000W (located in TRICON 12C) (23287) PUL-1000Q-TB		EA	5
132	7810-00-468-6116	TRIVIAL PURSUIT GAME (0FZP5) PGA350XX		EA	2

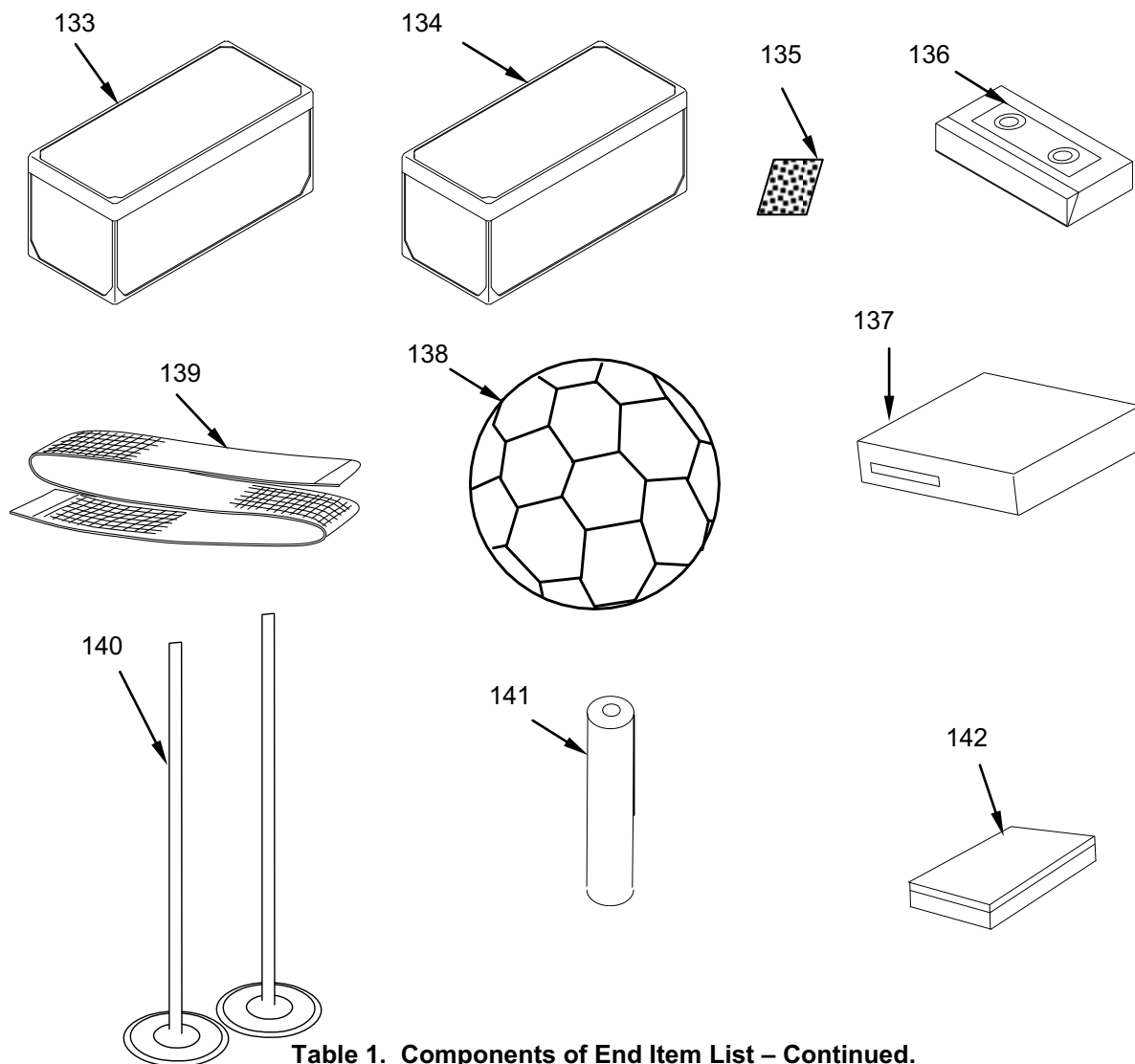
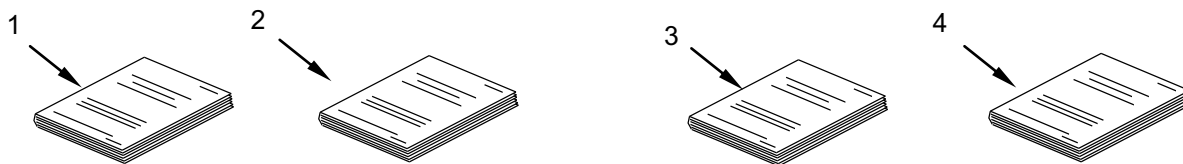


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
133	8460-00-243-3234	TRUNK, LOCKER, 2 TRAYS (located in TRICON 12A) (81349) MIL-T-10798G		EA	20
134	8460-00-243-3234	TRUNK, LOCKER, 2 TRAYS (ten located in TRICON 12C) (81349) MIL-T-10798		EA	50
135	7810-00-468-6114	UNO CARD GAME (0FZP5) 4013XXXX		EA	4
136	5386-01-471-2484	VHS CLEANING TAPE (67177) ALG1310		EA	2
137		VIDEO PLAYER, VCR/DVD/VHS (N/A) HR-UD670U		EA	1
138	7810-00-663-0546	VOLLEYBALL (0FZP5) MCV300XX		EA	8
139	7810-00-468-7147	VOLLEYBALL NET (0FZP5) SNVBRC32		EA	3
140	7810-01-468-7933	VOLLEYBALL STANDARDS (0FZP5) STYB300XF		EA	1
141	7830-01-468-6110	WRAP PAD BAR GYMNASTIC (0FZP5) CHSNPXXX		EA	3
142	7810-00-468-6115	YAHTZEE GAME (0FZP5) 4024XXXX		EA	4

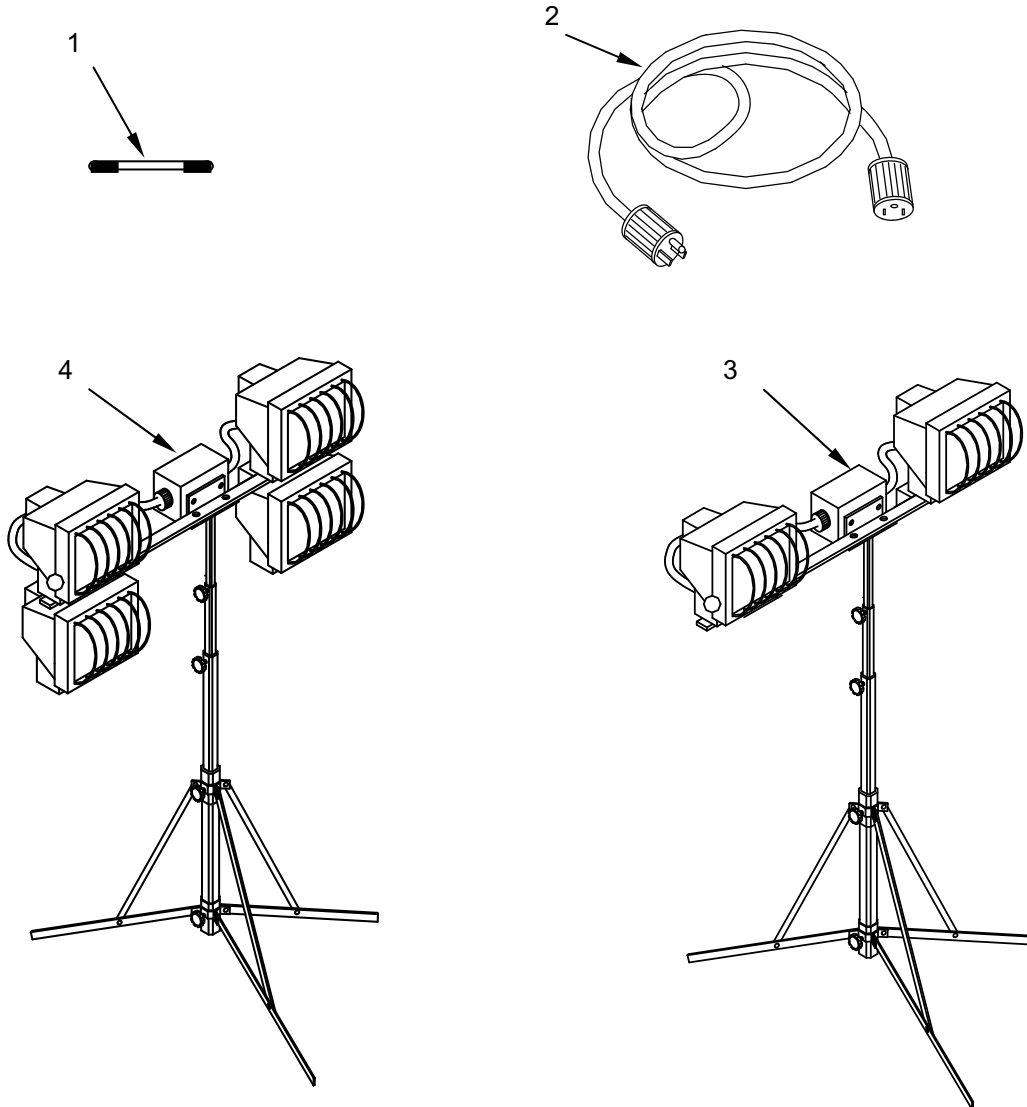


**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (Three each located in each TRICON 12A) TM 10-8340-224-13		EA	6
2	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR AIR CONDITIONER 54,000 BTU/HR, 208/230 VOLT 3 PHASE, 50/60 HERTZ MODEL AH-54, TM 9-4120-398-14 (Two each located in each TRICON 12C) OR OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FIELD DEPLOYABLE ENVIRONMENTAL CONTROL UNITS MODELS FDECU-2, FDECU-4 AND FDECU-4 9NSN 4120-01-449-459) TM 9-4120-411-14 (Two each located in each TRICON 12C)		EA	10
3	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (DISE) AND POWER DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (PDISE) CONSISTING OF ELECTRIC FEEDER SYSTEM M200, M200 A/P, ELECTRICAL FEEDER SYSTEM M100, M100 A/P, ELECTRICAL DISTRIBUTION M40, M40 A/P, ELECTRICAL DISTRIBUTION SYSTEM M60, M60 A/P, ELECTRICAL ASSEMBLY M46 (Twelve each located in each TRICON 12A) TM 9-6150-226-13		EA	24
4	N/A	UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL, REPAIR PARTS AND SPECIAL TOOLS LIST FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (Three each located in each TRICON 12A) TM 10-8340-224-23P		EA	6



**FORCE PROVIDER FLOODLIGHT SUBSYSTEM  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1		BULB, HALOGEN, 500W 23287, 3105901		KT	130
2		EXTENSION CORD, 50-FT, #12 AWG/3, 81337, 9-1-0769-1 (Refer to WP 0035 00 for location)		EA	65
3		FLOODLIGHT, PORTABLE, 1000 WATT, HEAVY DUTY (Refer to WP 0035 00 for location) (81337) 9-1-0769-1		EA	25
4		FLOODLIGHT, PORTABLE, 2000WATT, HEAVY DUTY (Refer to WP 0035 00 for location) (81337) 9-1-0769-2		EA	20

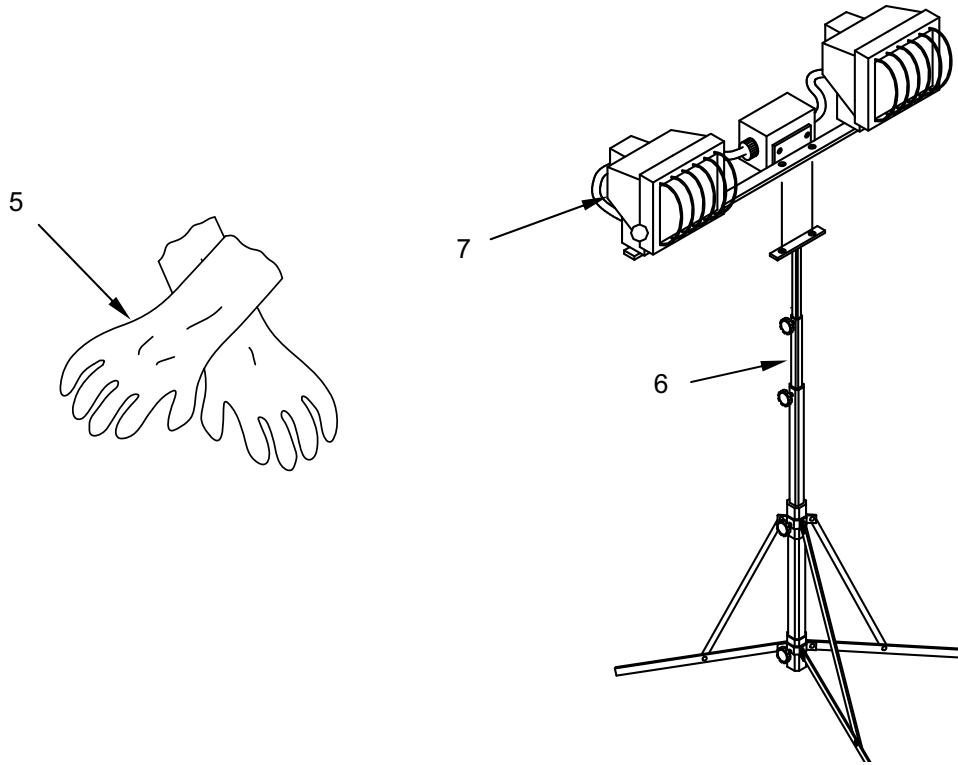
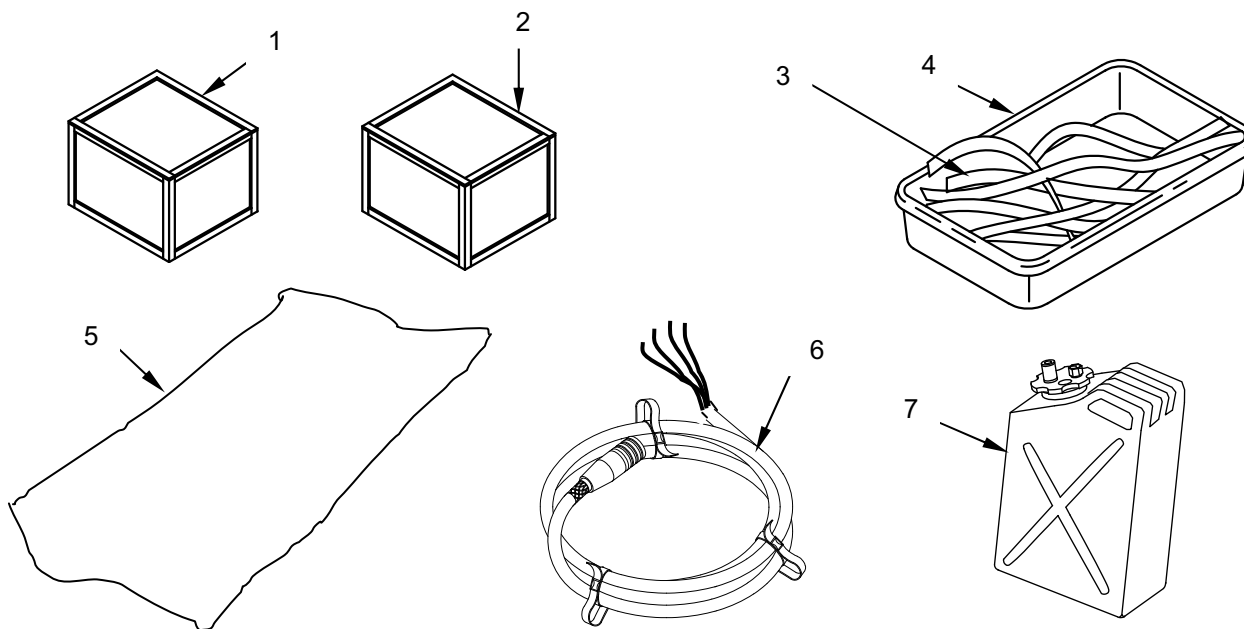


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
5	8415-00-782-2809	GLOVE INSERT, COTTON, 81349, MIL-G-82241, (Refer to WP 0035 00 for location)		PR	25
6		LIGHT HEAD ASSEMBLY 23287, 3197501		EA	130
7		TRIPOD ASSEMBLY 23287 4802302		EA	45



**FORCE PROVIDER MODIFICATION SYSTEM POWER GENERATION (MSPG)  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	6115-01-274-7390	60KW GENERATOR SYSTEM SUPPORT PACKAGE, MEP6A (located in TRICON 21B) (81337) 9-1-0710	FSU	EA	1
2	6115-01-462-0291	60KW GENERATOR SYSTEM SUPPORT PACKAGE, MEP6B (located in TRICON 21B) (81337) 9-1-0711	FSU	EA	1
3	7930-00-269-1272	ABSORBANT MATERIAL, SPILL CLEANUP (located in TRICON 21B) (58536) A-A-1979		EA	3
4	7930-01-316-6008	ABSORBENT MATERIAL, OIL AND WATER DRIP PAN (located in TRICON 21B) (1JA49) 2410PP		EA	8
5	5430-01-415-7432	BERM LINER, 500 GALLON TANK (located in TRICON 21B) (81337) 9-1-0175		EA	8
6	6145-01-440-5706	CABLE ASSEMBLY, 60KW, B UNIT, W19 (located in TRICON 21A) (97403) 13229E5741	FSU	EA	16
7	7240-01-337-5269	CAN, FUEL, MILITARY, PLASTIC, 5 GALLON, GREEN (located in TRICON 21B) (97403) 13228E3325	FSN	EA	8
7	7240-01-337-5268	CAN, FUEL, MILITARY, PLASTIC, 5 GALLON, TAN (located in TRICON 21B) (97403) 13228E3325	FSQ	EA	8

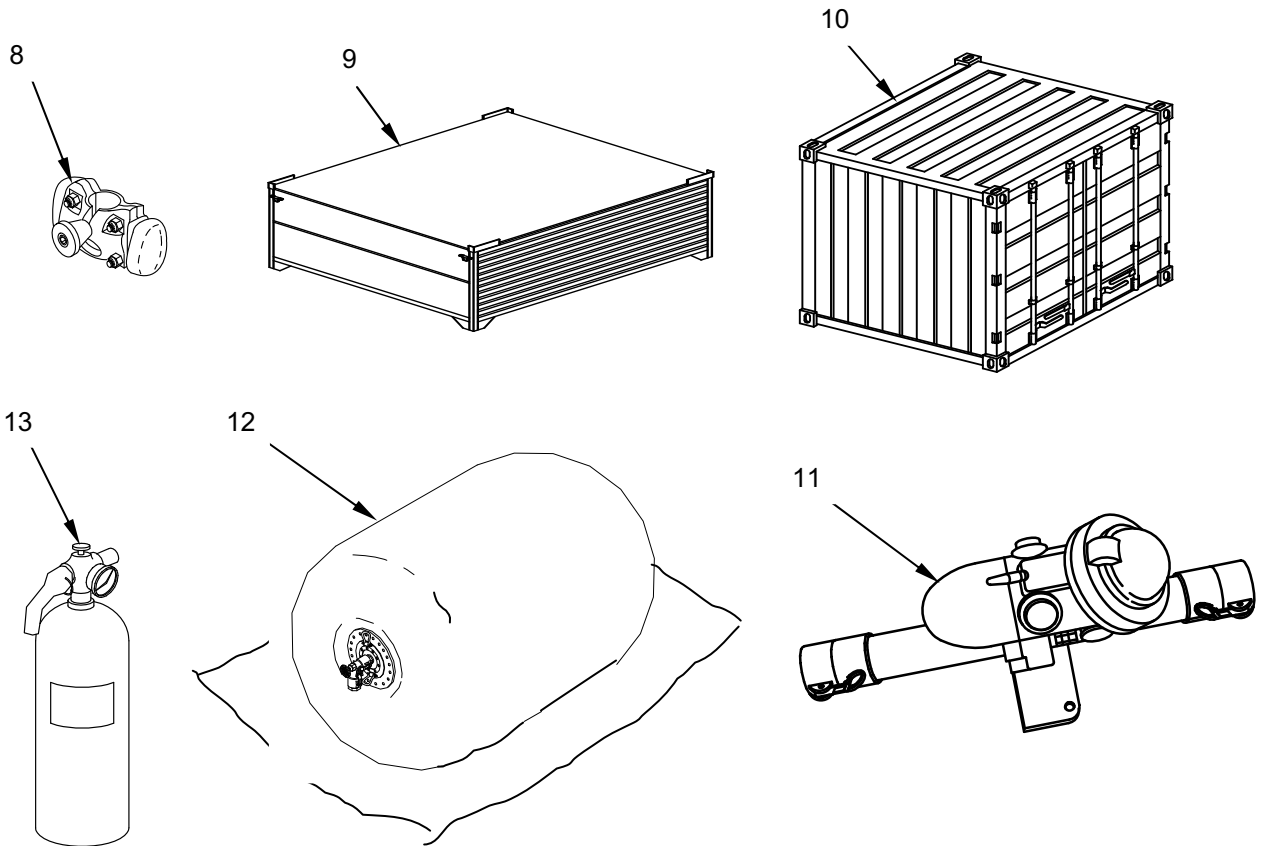


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
8		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 21A, 21B) (Part of Transportation and Storage Subsystem)		EA	6
9	8145-01-415-4113	CONTAINER, REUSABLE, BULK EQUIPMENT (three located in TRICON 21A) (three located in TRICON 21B) (81337) 9-1-0142		EA	6
10	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) (TRICON 21A, 21B) (09PDO) BXTPCGATPD0003 – Green (Part of Transportation and Storage Subsystem)	FSN	EA	2
10	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) (TRICON 21A, 21B) (09PDO) BXPCTATPD0003 – Tan (Part of Transportation and Storage Subsystem)	FSQ	EA	2
11	4930-00-855-8739	CONTROL, PRESSURE, FILLING, NON- VENTED DRUM, 7B, 5-14-635 / 13215E8372 (97403)		EA	2
12	8110-01-369-7666	DRUM, FABRIC, COLLAPSIBLE FUEL, 500 GALLON, TYPE III, 21B, 13227E6314		EA	8
13	4210-00-889-2491	FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 LB, 21A, A-A-393, TYPE 1, CLASS 1, SIZE 10		EA	8

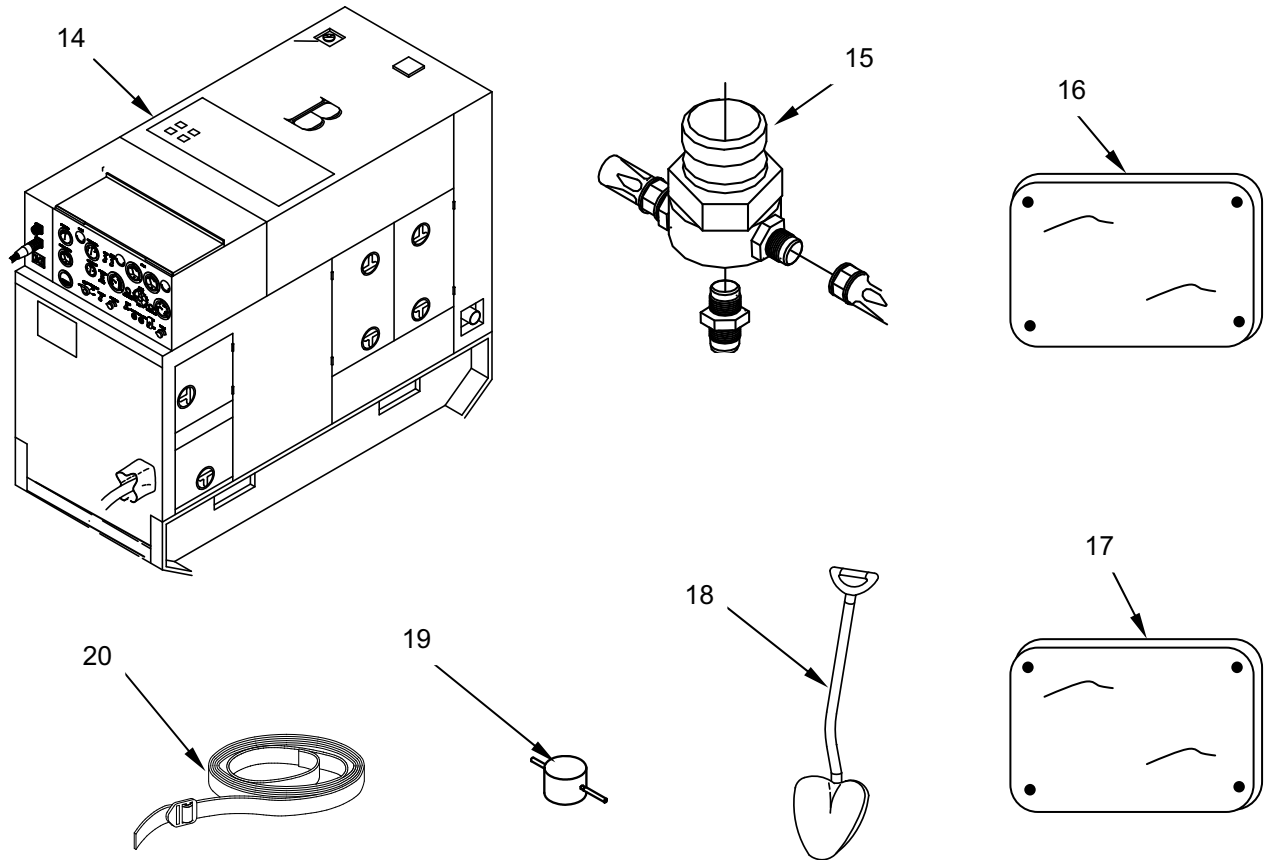
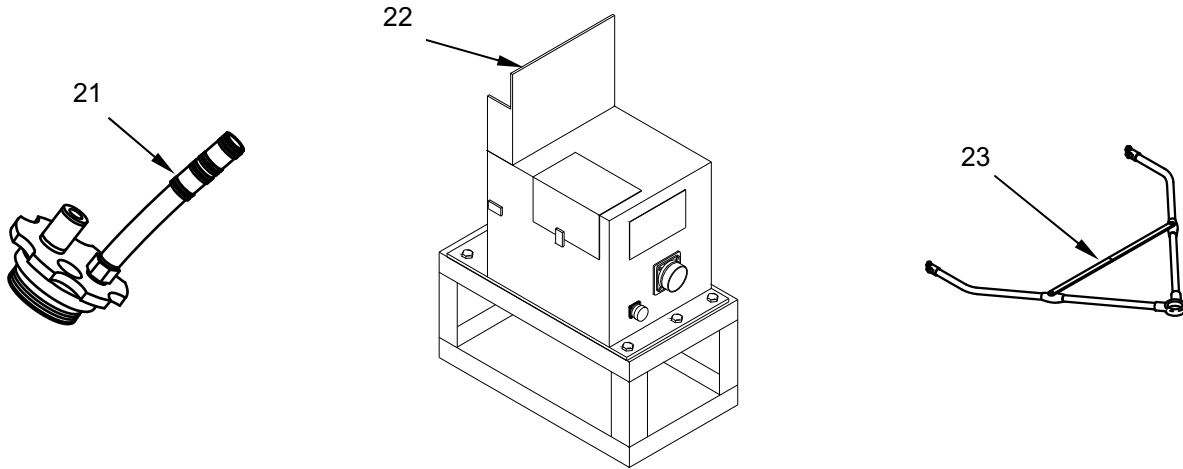


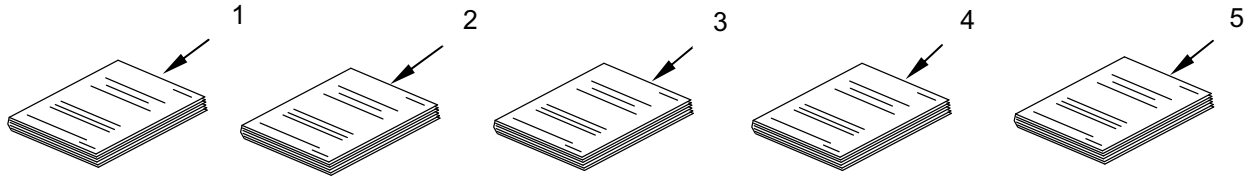
Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
14	6115-01-462-0291	GENERATOR SET, SKID MOUNTED, TACTICAL QUIET, 60 KW, 50/60HZ AND 400 HZ, MEP 806A AND B,	FSN	EA	24
14	6115-01-462-0291	GENERATOR SET, SKID MOUNTED, TACTICAL QUIET, 60 KW, 50/60HZ AND 400 HZ, MEP 806A AND B,	FSQ	EA	24
15	2910-01-415-6890	MANIFOLD ASSEMBLY, FUEL, FP TACTICAL GENERATOR (located in TRICON 21B) (81337) 9-1-0194	FSU	EA	8
16	8110-00-856-6244	REPAIR KIT, EMERGENCY, TYPE I (located in TRICON 21B) (81348) MIL-R-52255		EA	2
17	8110-00-856-6246	REPAIR KIT, TYPE II (located in TRICON 21B) (81348) MIL-R-52255		EA	2
18	5120-00-293-3336	SHOVEL, ROUND POINT, D HANDLE (located in TRICON 21B) (80244)		EA	3
19	5120-01-013-1676	GGG-S-326, TYPE IV, CLASS A, STYLE I SLIDE HAMMER, GROUND ROD (located in TRICON 21A) (97403) 13226E7741,		EA	8
20	5340-01-204-3009	SPECIAL PURPOSE TIEDOWN (two located in TRICON 21A) (two located in TRICON 21B) (98313) FDC5770-5		EA	4



**Table 1. Components of End Item List – Continued.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
21	7240-00-177-6145	SPOUT, FUEL CAN, FLEXIBLE (located in TRICON 21B) (97403) 13219E2600		EA	8
22	5930-01-391-1529	SWITCH BOX ASSEMBLY W/STAND (located in TRICON 21A) (97403) 13229E5795-3		EA	16
23	8110-00-8566243	YOKE, TOWING, LIFTING, FABRIC, DRUM (located in TRICON 21B) (81337) 9-1-0194		EA	2

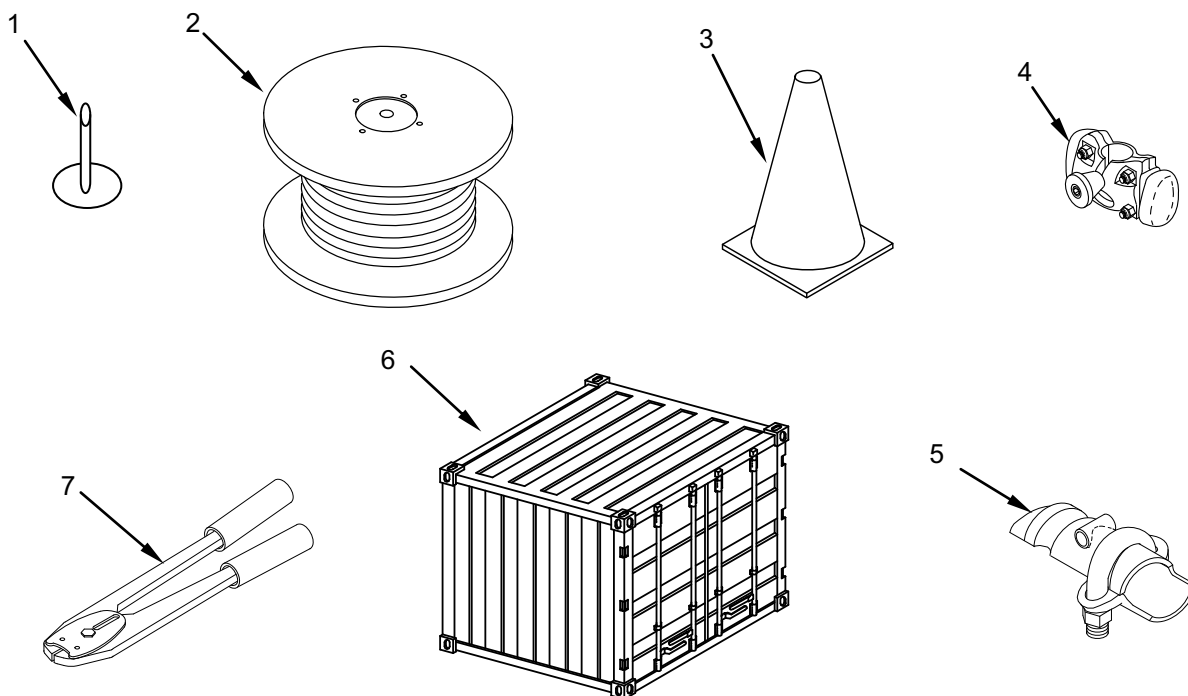


**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	LUBRICATION ORDER, GENERATOR SET, SKID MOUNTED TACTICAL QUIET, 60KW, 50/60 HZ AND 400 HZ, MEP-806A, MEP-816A (located in TRICON 21A) LO 9-6115-672-24		EA	1
2	N/A	OPERATOR, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) FOR: POWER UNIT DIESEL ENGINE DRIVEN, 2 1/2-TON TRAILER MOUNTED, 60 KW, 50/60HZ, PU-805 POWER UNIT DIESEL ENGINE DRIVEN, 2 1/2-TON TRAILER MOUNTED, 60 KW, 50/60HZ, PU-806 POWER UNIT DIESEL ENGINE DRIVEN, 2 1/2-TON TRAILER MOUNTED, 60 KW, 50/60HZ, AN/MJQ-41 TM 9-6115-663-13&P		EA	1
3	N/A	OPERATOR'S MANUAL GENERATOR SET, SKID MOUNTED TACTICAL QUIET, 60KW, 50/60 HZ AND 400 HZ, MEP-806A, MEP-816A (One each shipped with each TQG) TM 9-6115-645-10		EA	24
4	N/A	OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR DRUMS FABRIC COLLAPSIBLE NON-VENTED; 500 GALLON, LIQUID FUEL, 250 GALLON POTABLE WATER, 55 GALLON POTABLE WATER (located in TRICON 21B) TM 10-8110-201-14&P		EA	8
5	N/A	UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL GENERATOR SET, SKID MOUNTED, TACTICAL QUIET, 60KW, 50/60 HZ AND 400 HZ, MEP 806A, MEP 816A (located in TRICON 21A) TM 9-6115-645-24		EA	1



**FORCE PROVIDER MODIFICATION SYSTEM PRIME POWER (MSPP)  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1		BOND, STUD (located in TRICON 31C) 30105 BS1-10		EA	20
2		CABLE, CONDUCTOR, 2/0, SHIELDED 5 kV, 133%, DIRECT BURIAL (5000 FT located in TRICON 32A) (8000 FT located in TRICON 32B) (82903) 114-23-3827	FSR	FT	13000
3	6250-00-334-6183	CONE, TRAFFIC, ORANGE, 28" (located in TRICON 31C) (81362) 28PO	FSR	EA	6
4		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 1A, 1B, 1C, 1D) (Part of Transportation and Storage Subsystem)		EA	96
5		CONNECTOR, BARREL, 2/0 COMPRESSION (located in TRICON 31C) (1QDV5) 10006	FSR	EA	50
6	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) (TRICON 1A, 1B, 1C, 1D) (09PDO) BXTPCGATPD0003 – Green (Part of Transportation and Storage Subsystem)	FSN	EA	12
6	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) (TRICON 1A, 1B, 1C, 1D) (09PDO) BXTPCTATPD0003 – Tan (Part of Transportation and Storage Subsystem)	FSQ	EA	12
7	5120-01-018-6729	CRIMPERS, HAND, TBM6S (56501)		EA	1

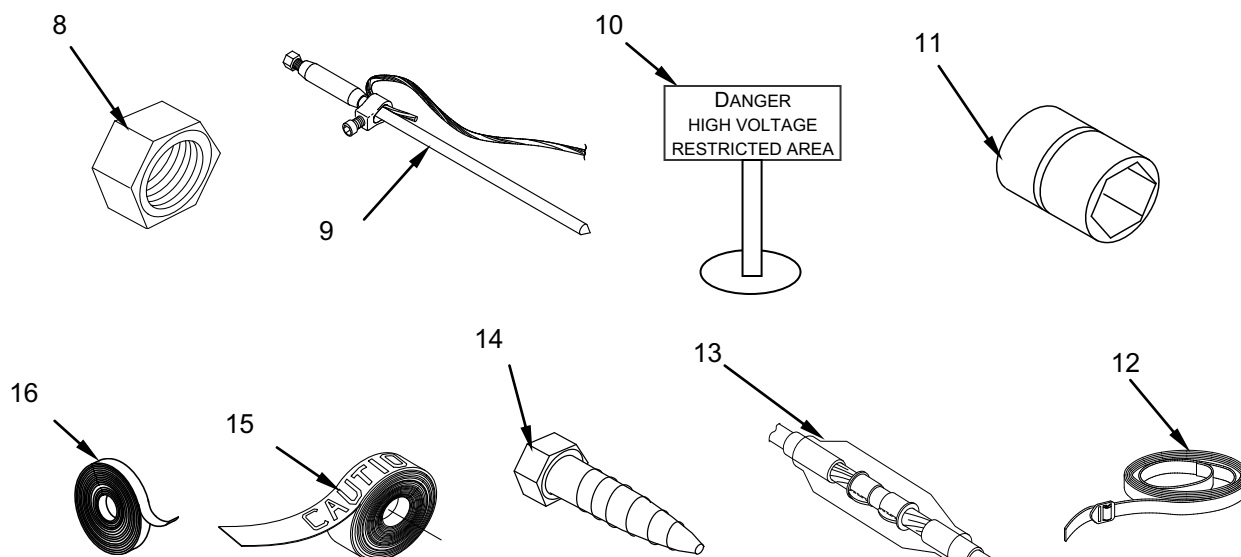


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
8		NUT, HEX, 3/8" (located in TRICON 31C) (2K066) N165		EA	100
9	5975-00-878-3791	ROD, GROUND, SECTIONAL, TYPE III, CLASS B, WITH ATTACHMENTS (located in TRICON 31C) (81348) W-R-550A	FSR	EA	12
10		SIGN, PLASTIC, FLOOR STAND, "DANGER HIGH VOLTAGE/RESTRICTED AREA" (located in TRICON 31C) (79123) X-FS9	FSR	EA	6
11		SOCKET, LARGE, PENTA HEAD (located in TRICON 31C) (01XK9) 8020K461P21	FSR	EA	2
12	3990-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN (four located in TRICON 31A) (five located in TRICON 31C) (four located in TRICON 32A) (six located in TRICON 32B) (98313) FDC5770-5		EA	52
13		SPLICE, INLINE KIT, 5 KV, 2/0 (THREE SPLICES PER KIT) (located in TRICON 31C) (1QDV5) 5551	FSR	EA	16
14		TAP BOLT, HEX HEAD, 3/8" X 2 1/2" (located in TRICON 31C) (2K066) HTB25	FSR	EA	75
15		TAPE (CAUTION – HIGH VOLTAGE) (located in TRICON 31C) (79123) CAT # U-CHY,	FSR	RL	6
16	5970-01-182-7761	TAPE, ELECTRICAL, 3/4 IN, SCOTCH 130C (located in TRICON 31C) (75037) 130C 3/4"		RL	33
16	5970-01-338-1999	TAPE, ELECTRICAL, 3/4 IN, SUPER 88 (located in TRICON 31C) (75037) 130C 3/4"		RL	33
16	5970-01-013-9369	TAPE, VINYL PLASTIC, RED SCOTCH 35 (located in TRICON 31C) (75037) 35 3/4 RED		RL	6
16	5970-01-334-6183	TAPE, VINYL PLASTIC, WHITE SCOTCH 35 (located in TRICON 31C) (75037) 35 3/4 WHITE		RL	6



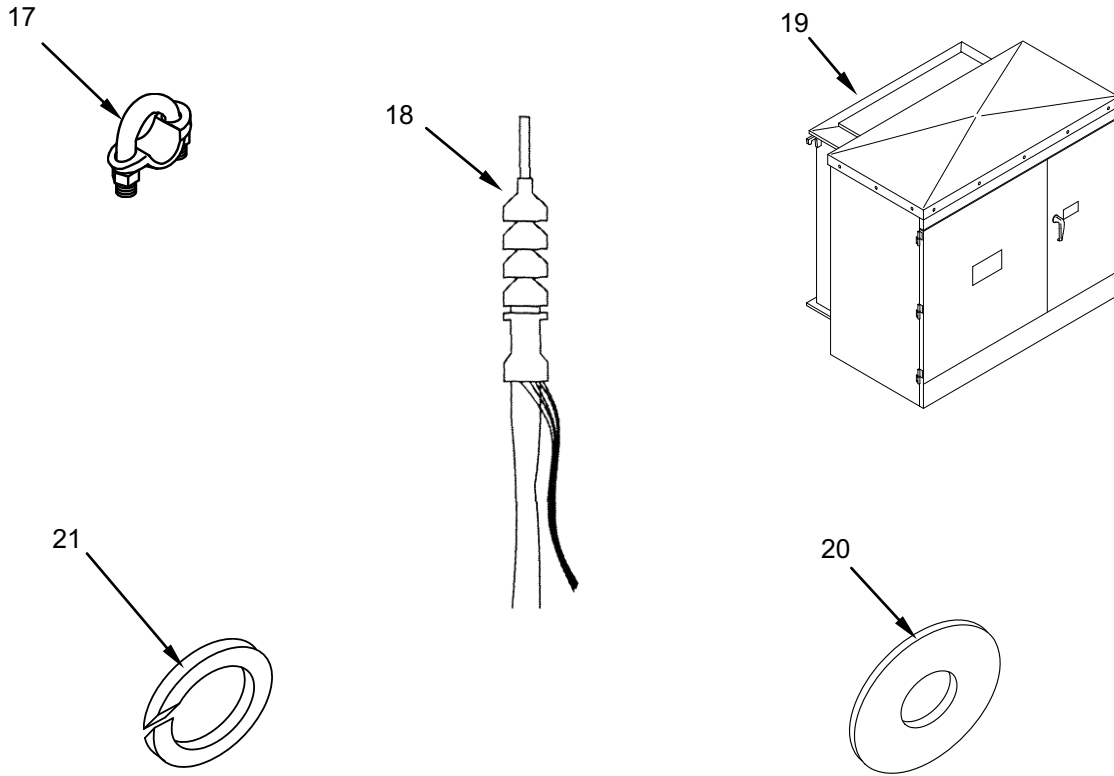
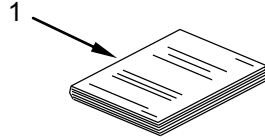


Table 1. Components of End Item List – Continued.

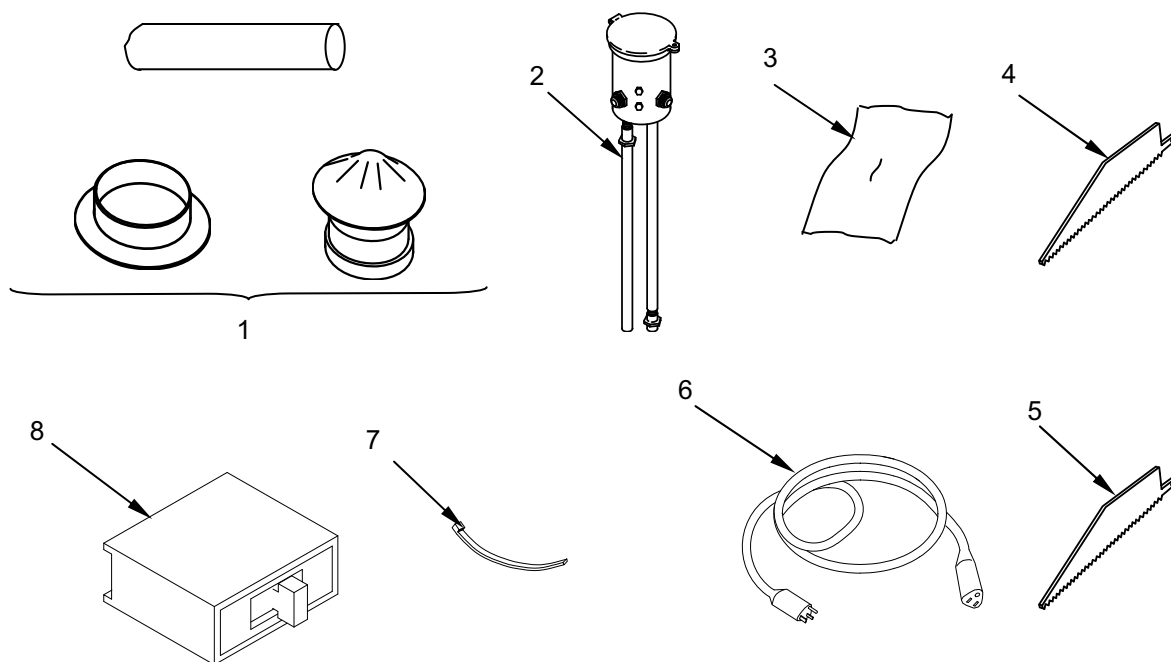
(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
17		TERMINAL LUG, 2 CONDUCTOR (located in TRICON 31C), (74829) AU-250,	FSR	EA	75
18		TERMINATION KIT, 5KV, 2/0, THREE TERMINATIONS (located in TRICON 31C) (1QDV5) 7621-S-2	FSR	KT	8
19		TRANSFORMER, PAD MOUNTED, 150KVAC (one located in TRICON31A) (one located in TRICON 31C) (4L155) HH37B71CA316EF	FSR	EA	10
20		WASHER, FENDER, 3/8" (located in TRICON 31C) (2K066) SW75		EA	100
21		WASHER, SPLIT, 3/8" (located in TRICON 31C (2K066) LW174		EA	100



**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL FOR DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (DISE) AND POWER DISTRIBUTION ILLUMINATION SYSTEMS, ELECTRICAL (PDISE) CONSISTING OF ELECTRIC FEEDER SYSTEM M200, M200 A/P, ELECTRICAL FEEDER SYSTEM M100, M100 A/P, ELECTRICAL DISTRIBUTION M40, M40 A/P, ELECTRICAL DISTRIBUTION SYSTEM M60, M60 A/P, ELECTRICAL ASSEMBLY M46 TM 9-6150-226-13		EA	1

**FORCE PROVIDER MODIFICATION SYSTEM COLD WEATHER (MSCW)  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST**



**Table 1. Components of End Item List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1		ADAPTER KIT, TRICON, WATER HEATER (3 located in TRICON 43A) (1 located in TRICON 45A) 9-1-0609, (81337)	FSS	EA	4
2	4510-01-214-9139	ADAPTER, DRUM FILL, 2 PORT (four located in TRICON 41A) (One located in TRICON 45A) (81337) MSCW1A 6-1-6274	FSS	EA	69
3	8105-00-935-7101	BAG, SAND, ACRYLIC, GREEN (Located in TRICON 44A) (58536) A-A-52140A1		HD	60
4	5130-00-275-1204	BLADE SET, 0.5" SHANK, MTL, 18 TPI (located in TRICON 44A) (N/A)		EA	1
5	5130-00-275-1203	BLADE SET, 0.5" SHANK, WOOD, 10 TPI (located in TRICON 44A) (N/A)		EA	1
6	6150-01-413-9314	CABLE ASSEMBLY, SP EXT 25' 120V GFI (located in TRICON 44A) (81337) 9-1-0183		EA	20
7	5975-00-985-6630	CABLE TIE, NYLON, 14 IN, 100 LB (located in TRICON 45A) (81349) MIL-S-23190		EA	2
8	5925-01-397-6052	CIRCUIT BREAKER WITH MOUNTING HARDWARE (located in TRICON 45A) (81541) PR11-1-1.00-XX-S		EA	5

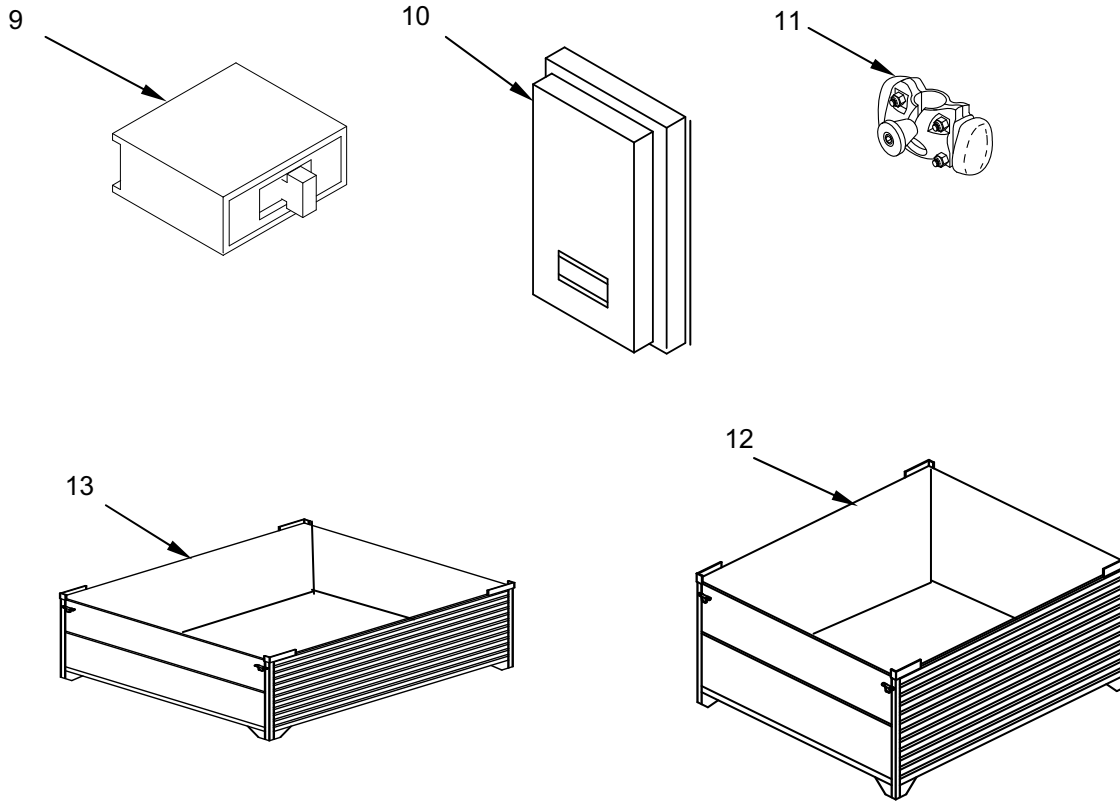


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
9	5925-00-270-3998	CIRCUIT BREAKER, 15A, SINGLE POLE (located in TRICON 45A) (82647) PDM-25	FSS	EA	5
10	5945-01-497-6064	COMBUSTION RELAY ASSEMBLY (located in TRICON 45A (90598) 60811-100		EA	5
11		CONNECTOR LINKS, 09PD1, 1046, (located in TRICON 21A, 21B) (Part of Transportation and Storage Subsystem)		EA	75
12	8145-01-415-4116	CONTAINER, REUSABLE, BULK EQUIPMENT, MEDIUM, 81337, 9-1-0142-2		EA	1
13	8145-01-415-4113	CONTAINER, REUSABLE, BULK EQUIPMENT, SMALL, 81337, 9-1-0142-1		EA	4

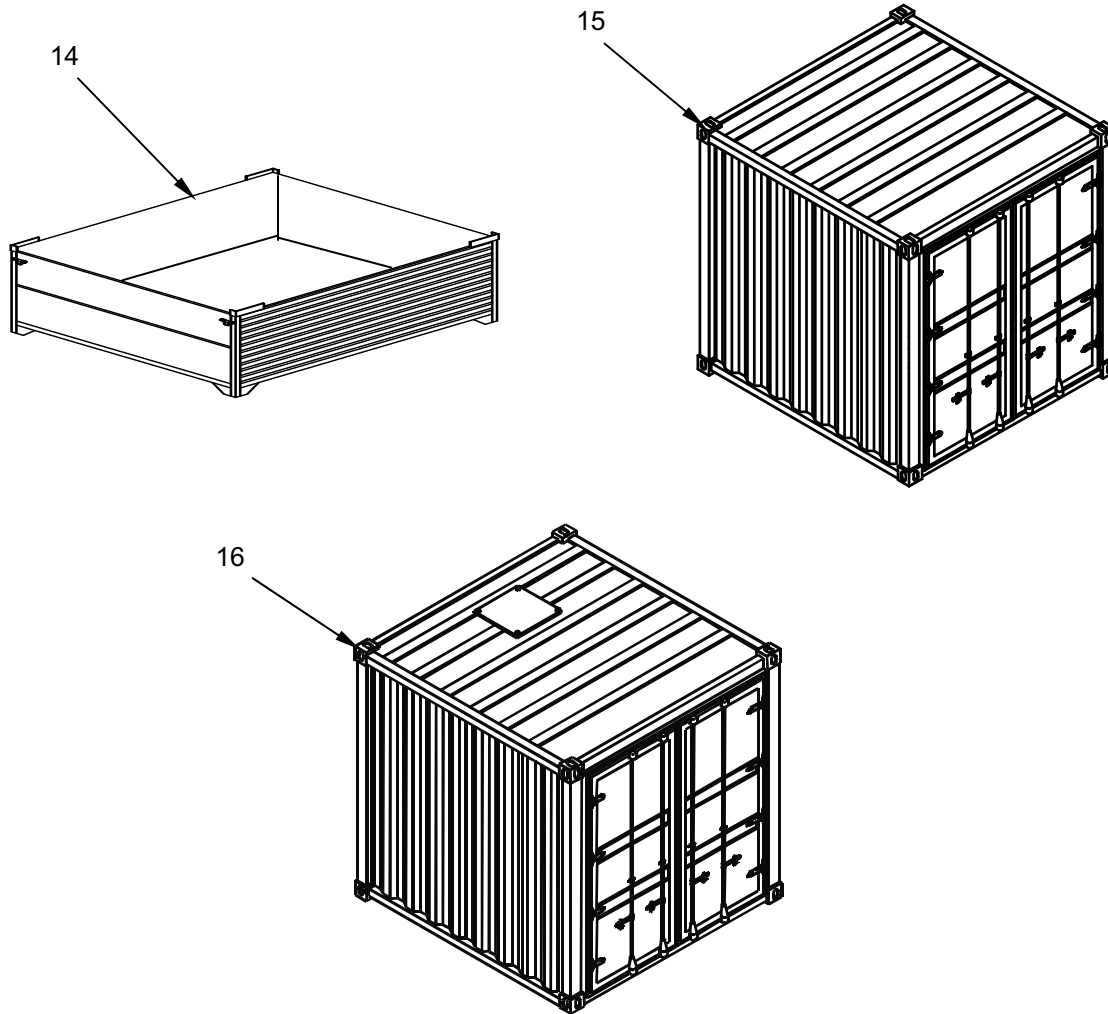


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
14	8145-01-415-4113	CONTAINER, REUSABLE, SMALL (located in TRICON 45A (81337) 9-1-0142-1		EA	3
15	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) WITH CONNECTORS (TRICON 41A, 42A, 42B, 42C and 44A) (09PDO) BXTPCGATPD0003 – Green BXPCTATPD0003 – Tan		EA	21
16	8145-01-475-9570	CONTAINER, SHIPPING AND STORAGE- TRIPLE (TRICON) WITH CONNECTORS AND (TRICON MODIFICATION KIT (81337) 9-1-0607 (ITEM 1) APPLIED) (TRICON 43A and 45A) (09PDO) BXTPCGATPD0003 – Green BXPCTATPD0003 – Tan		EA	4

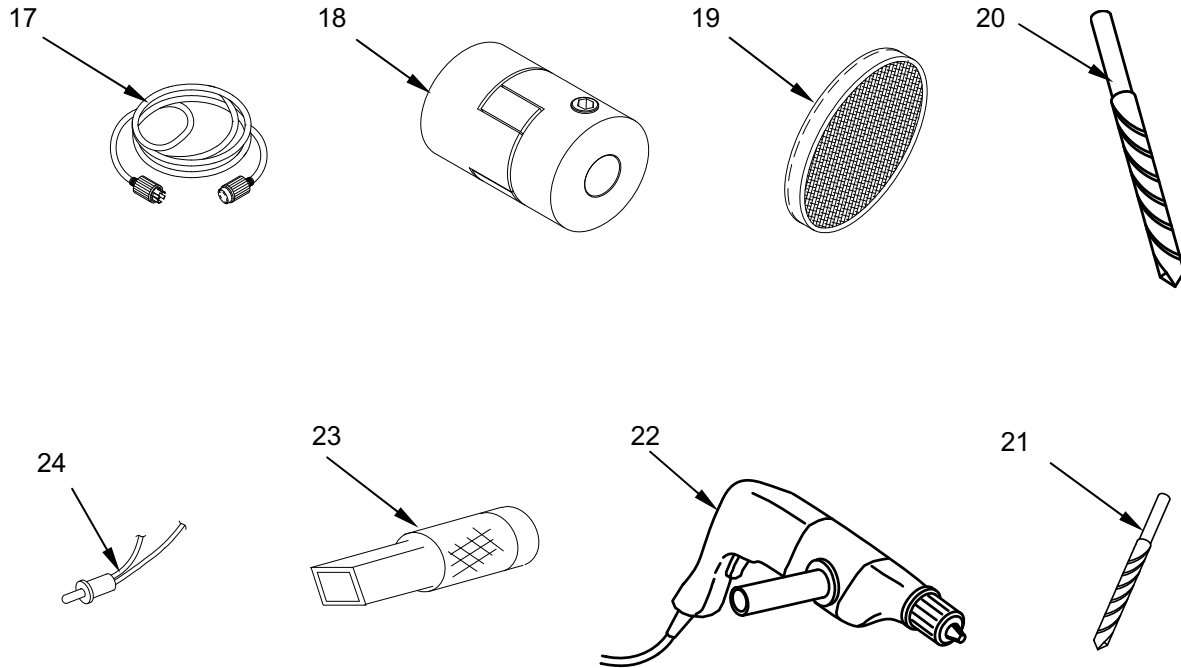


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
17		CORD EXTENSION, 20 A, 50' MILITARY TO COMMERCIAL (eight located in TRICON 42A, 42B and 42C) (six located in TRICON 45A) (81337) 9-1-01613		EA	30
18	3010-01-482-1577	COUPLING, FUEL PUMP (located in TRICON 45A) (90598) 60634-1	FSS	EA	5
19	4130-01-415-7300	DEBRIS SCEEN, AIR CONDITIONING DUCT ADAPTER (ten located in TRICON 45A (four located in TRICON 41A (81337) 9-1-0146		EA	78
20		DRILL BIT, TE-Y, 1 1/4-36 (located in TRICON 44A) (11239) 220657		EA	4
21		DRILL BIT, TE-Y, 5/8-21 (located in TRICON 44A) (11239) 220637		EA	8
22	5130-01-136-0954	DRILL, ROTARY HAMMER TE 76 (located in TRICON 44A) (11239) 334225		EA	4
23		DRIVING BIT, TENT STAKE TE-Y-RD 3/4 (located in TRICON 44A) (11239) 220702		EA	4
24		ELECTRODE ASSEMBLY (located in TRICON 45A) (90598) 60731-100	FSS	EA	20

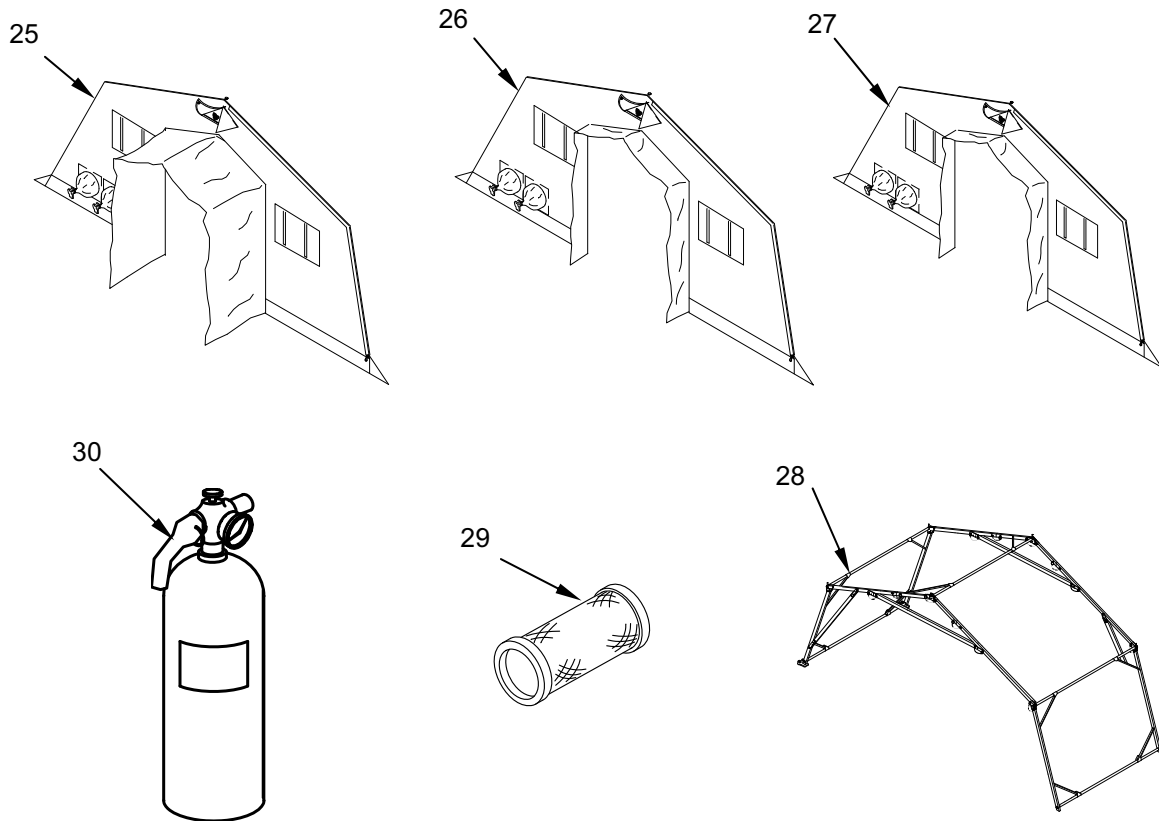


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
25		ENDWALL, TEMPER, ISO END OPENING (located in TRICON 45A) (81337) 9-1-0606-1	FSN	EA	1
25		ENDWALL, TEMPER, ISO END OPENING (located in TRICON 45A) (81337) 9-1-0606-2	FSQ	EA	1
26		ENDWALL, TEMPER, TRICON (located in TRICON 45A) (81337) 9-1-0602-1	FSN	EA	4
26		ENDWALL, TEMPER, TRICON (located in TRICON 45A) (81337) 9-1-0602-2	FSQ	EA	4
27		ENDWALL, TEMPER, VEHICLE (located in TRICON 45A) (81337) 9-1-0603-1	FSN	EA	2
27		ENDWALL, TEMPER, VEHICLE (located in TRICON 45A) (81337) 9-1-0603-2	FSQ	EA	2
28	8340-01-238-8101	EXTENDABLE SECTION FRAME, TEMPER (located in TRICON 45A) (81349) MIL-F-44251, TY II, CL2		EA	4
29	2910-01-312-1406	FILTER, FLUID (located in TRICON 45A) (90005) 1752029-01	FSS	EA	5
30	4210-00-889-2491	FIRE EXTINGUISHER, ABC, DRY CHEMICAL, 10 POUND (located in TRICON 45A) (80244) A-A-393, TYPE 1, CLASS 1, SIZE 10		EA	18

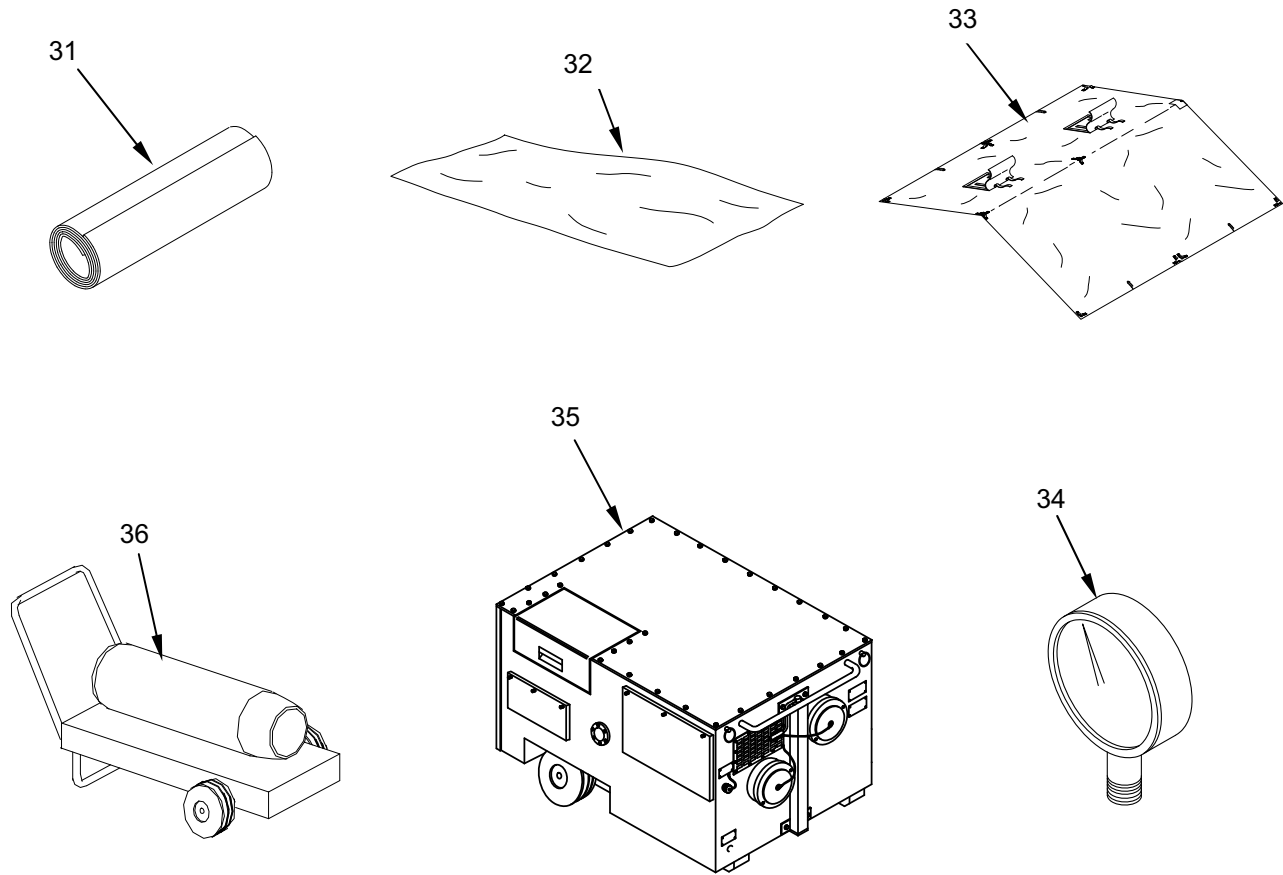


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
31	7220-01-469-3424	FLOOR MAT, ALTERED ITEM, 3' X 32 FT (six each located in TRICON 42A, 42B, 42C and 43A) (81337) 9-1-0189-1		EA	36
32	8340-01-186-3025	FLOOR, INSULATED, 8 FT, TEMPER (located in TRICON 45A) (81337) 5-4-3369		EA	16
33	8340-01-186-3018	FLY, 16', TEMPER, GREEN (located in TRICON 45A) (81337) 5-3353-1	FSN	EA	2
33	8340-01-186-3018	FLY, 16', TEMPER, GREEN (located in TRICON 45A) (81337) 5-3353-1	FSQ	EA	2
34	6685-01-399-0065	GAGE, PRESSURE DIAL, 10PSI (located in TRICON 45A) (72100) G32781	FSS	EA	5
35	4520-01-367-2739	HEATER 120 KBTU, ASH (located in TRICON 41A) (90598) H120	FSS	EA	68
36		HEATER, 110K BTUH, PORTABLE, DIESEL FUEL/KEROSENE (located in TRICON 45A) 3E218D	FSS	EA	6



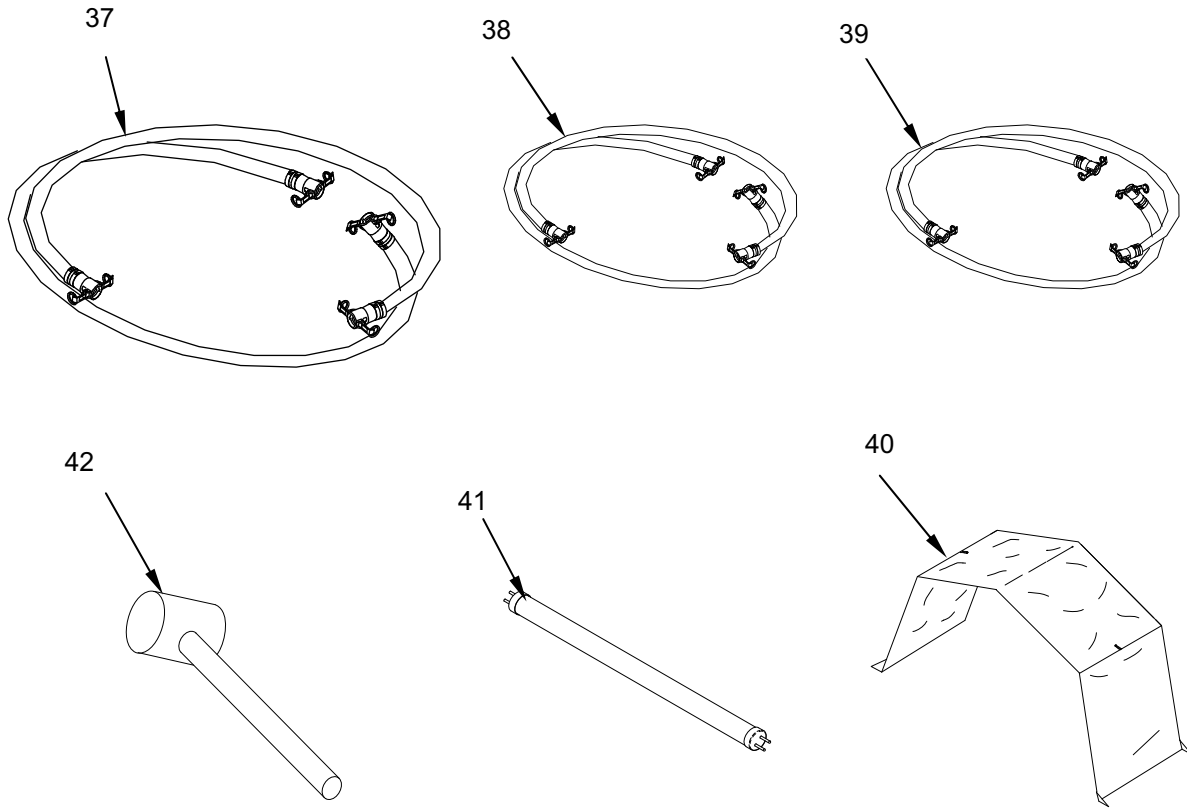


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
37		HOSE ASSEMBLY, WASTE WATER KIT, 1 1/4" X 25', HEAT TRACE (located in TRICON 42A) (81337) 9-1-0610	FSS	EA	4
38		HOSE AY POT, 1 1/2" X 75' HEAT TRACE (located in TRICON 42C) (81337) 9-1-0612	FSS	EA	12
39		HOSE AY WW 2 1/2" X 75' HEAT TRACE (four located in TRICON 42A and 42B) (81337) 9-1-0608	FSS	EA	8
40	8340-01-211-9636	INTERMEDIATE SECTION LINER, TEMPER (located in TRICON 45A) (81337) 5-4-3367		EA	4
41	6240-00-939-7859	LAMP, FLUORESCENT (located in TRICON 45A) (24446) ANSI #120MB		EA	20
42	5120-00-293-3399	MALLET, RUBBER HEAD, 24 OZ, 15" (located in TRICON 11A) (81348) GGG-H-33		EA	2

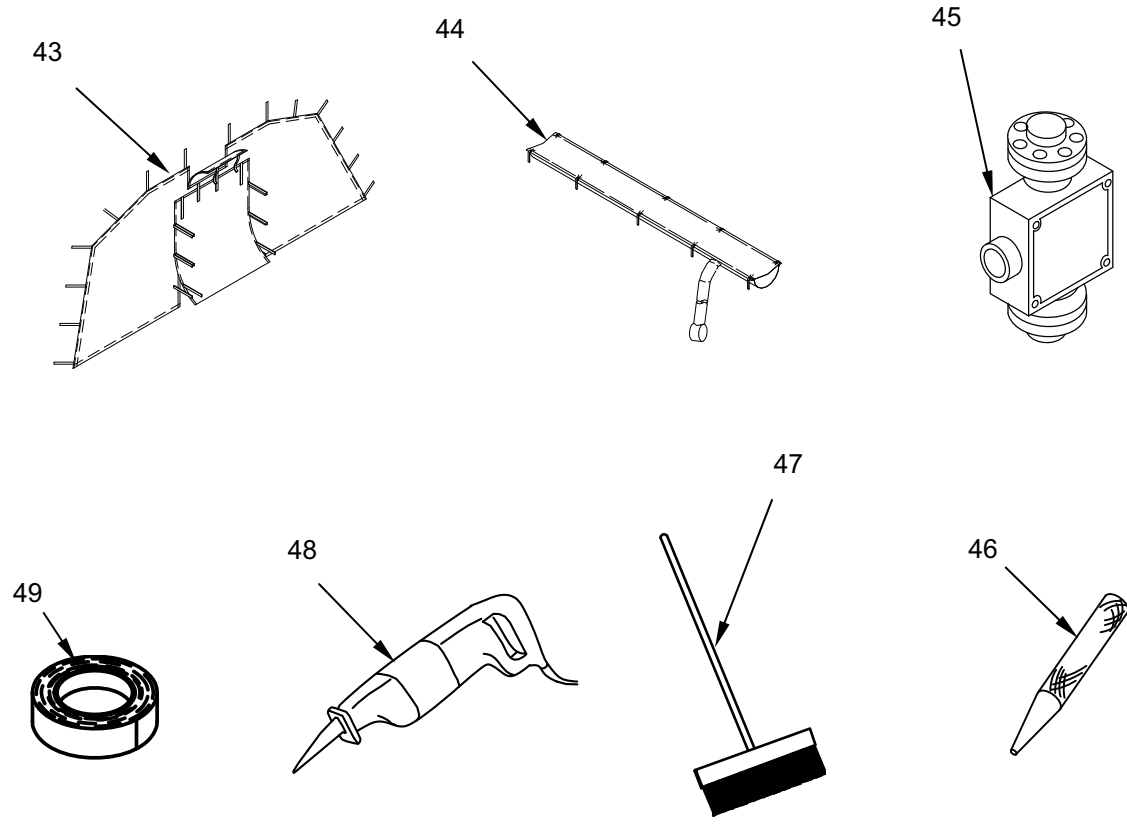


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
43	8340-01-186-3032	PARTITION, TEMPER (located in TRICON 45A) (81337) 5-4-3391	FSS	EA	2
44	8340-01-186-3035	PLENUM, END WALL, TEMPER (two each located in TRICON 42A, 42B and 42C) (81337) MIL-T-44243; 5-4-3614		EA	6
45	5930-01-397-7317	PRESSURE SWITCH AIR DIFFERENTIAL (located in TRICON 45A) (9157) R70-2-HCO-238		EA	5
46	5120-00-595-9531	PUNCH, ALIGNING, 12" L, 1/4" PT (located in TRICON 44A) G(81348) GG-9-831		EA	12
47		RAKE, SNOW, COMMERCIAL (located in TRICON 44A) (81337) 9-1-0605		EA	86
48	5130-00-819-7767	RECIPROCATING IN-LINE SAW, 0.5" (located in TRICON 44A) (81348) W-S-0090		EA	1
49	9905-00-194-9703	RIBBON FLAG, SURVEYOR'S, FLUORESCENT PINK 50-YARD ROLL (located in TRICON 11A) (58536) A-A-1823		RL	10

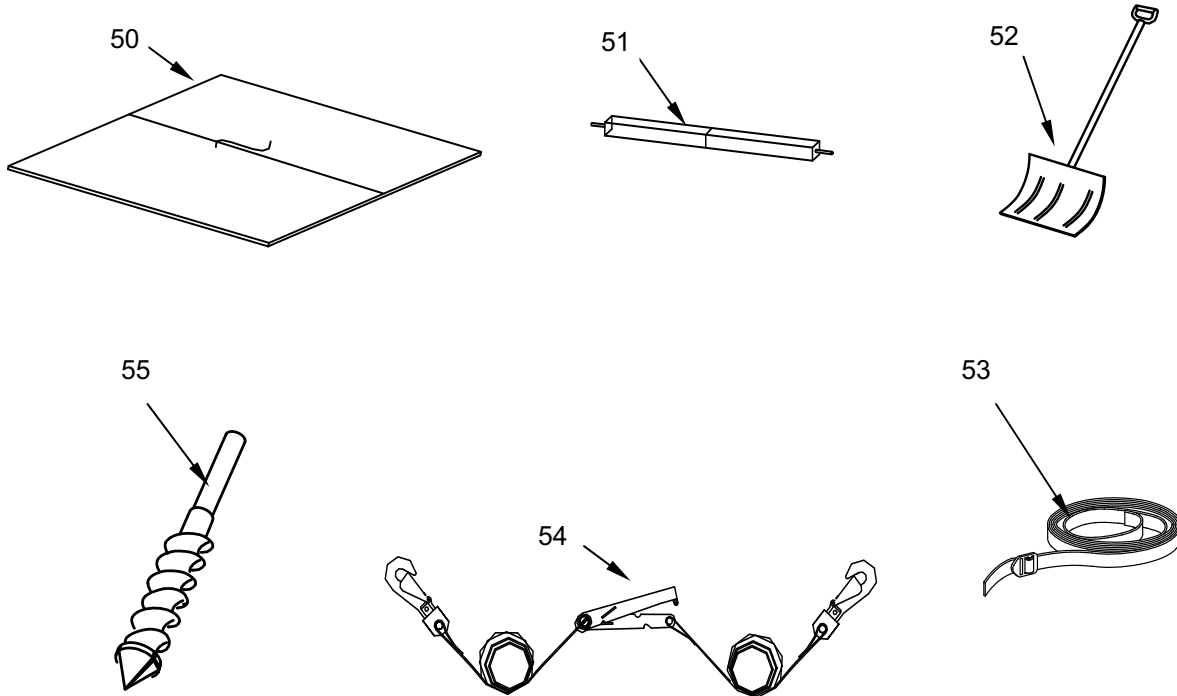


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
50	8145-01-503-4404	SHELF, SHIPPING AND STORAGE (TRICON), 09PD1, 1041A		EA	16
51	9540-01-491-3804	SHORING BEAM, (TRICON), 09PD1, FE-8066-067-078		EA	32
52		SHOVEL, SNOW, PLASTIC, COMMERCIAL (located in TRICON 44A) (81337) 9-1-0604		EA	86
53	3990-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN (six located in TRICON 41A) (two located in TRICON 44A and 45A) (98313) FDC5770-5		EA	106
54	3990-01-204-3009	SPECIAL PURPOSE WEB TIEDOWN, 98313, FDC57705		EA	26
55		STAKE DRIVING TOOL, LOCKING (located in TRICON 44A) (81337) 9-1-0601		EA	4

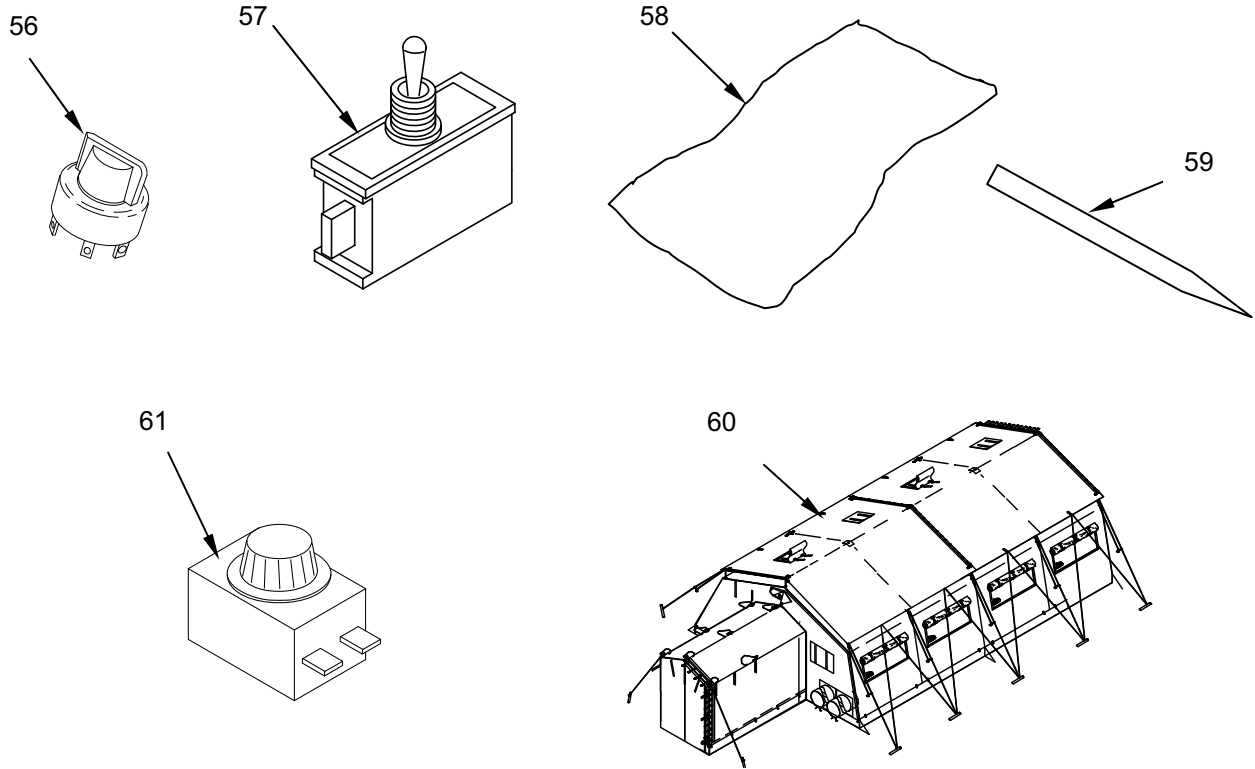


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
56	5930-01-399-3255	SWITCH, ROTARY (located in TRICON 45A) (28057) 12804		EA	5
57	5930-00-683-1626	SWITCH, TOGGLE (located in TRICON 45A) (96906) MS 24523-30		EA	5
58	8340-01-186-3019	TENT COVER, D/T TEMPER (four located in TRICON 42A, 42B and 42C (81337) 5-4-3359-1	FNS	EA	12
58	8340-01-186-3019	TENT COVER, D/T TEMPER (four located in TRICON 42A, 42B and 42C (81337) 5-4-3359-2	FSQ	EA	12
59	8340-00-985-7461	TENT PIN, STEEL, 18 IN (located in TRICON 43A) (81337) 5-4-196		EA	212
60	8340-01-196-6272	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE IV, 32 FT, COLOR-GREEN (two each located in TRICON 42A, 42B and 42C) (81337) MIL-T-44271, TYPE-IV	FNS	EA	6
60	8340-01-185-2628	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), TYPE IV, 32 FT, COLOR-TAN (two each located in TRICON 42A, 42B and 42C) (81337) MIL-T-44271, TYPE-IV	FSQ	EA	6
61	5930-01-497-6852	THERMOSTAT ASSEMBLY (located in TRICON 45A) (90598) 60410-100	FSS	EA	2

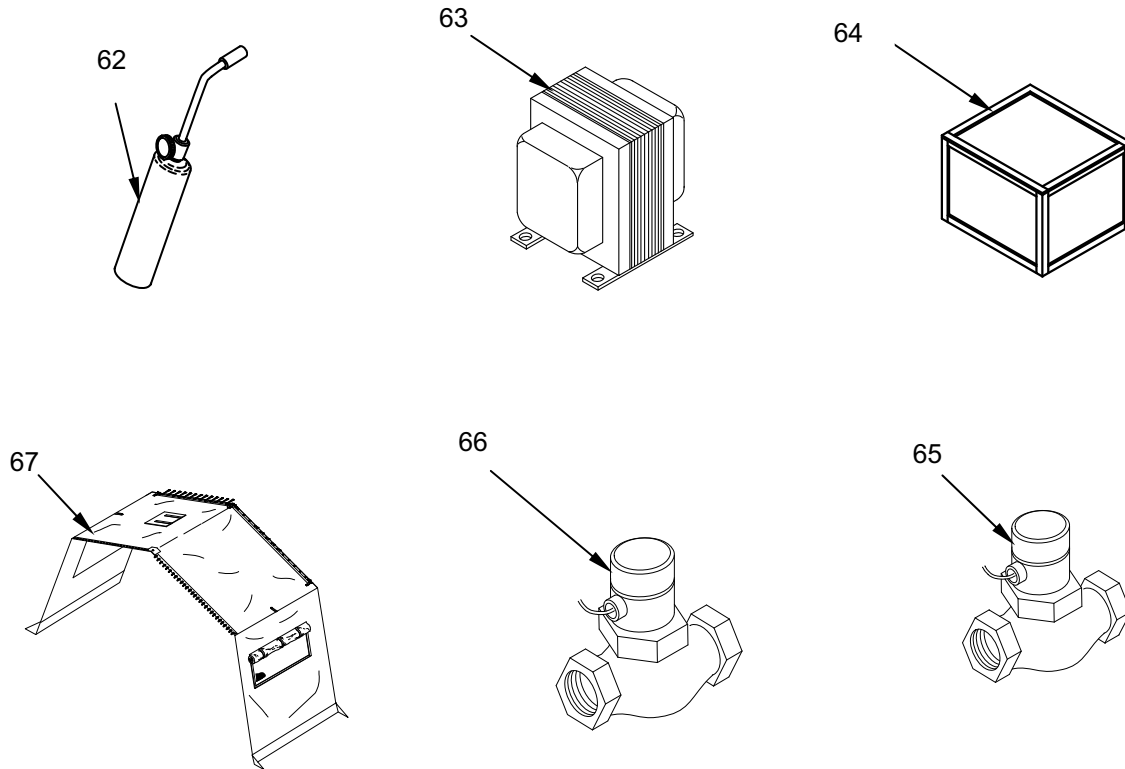
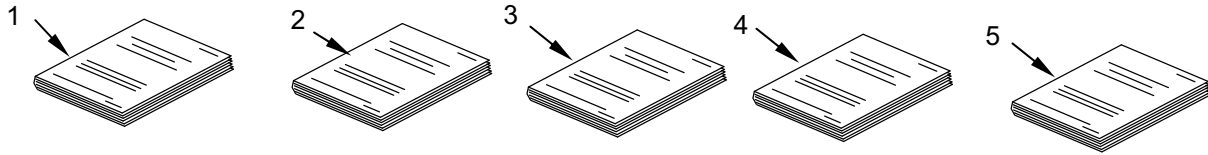


Table 1. Components of End Item List – Continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
62	3439-00-542-0531	TORCH ASSEMBLY (located in TRICON 44A) (81348) GGGT00570		EA	4
63		TRANSFORMER, REMOTE (located in TRICON 45A) (90598) 60434-1	FSS	EA	5
64		TRICON MODIFICATION KIT one each located in TRICON 43A and 45A) (81337) 9-1-0609	FSS	EA	4
65	4810-01-290-4925	VALVE, SOLENOID (located in TRICON 45A) (73212) 3X290	FSS	EA	5
66	4810-01-291-9533	VALVE, SOLENOID (located in TRICON 45A) (73212) 6X409	FSS	EA	5
67	8340-01-186-3016	WINDOW SECTION, TEMPER, FABRIC, GREEN (located in TRICON 45A) (81337) 5-4-3352-1	FSN	EA	4
67	8340-01-213-6006	WINDOW SECTION, TEMPER, FABRIC, TAN (located in TRICON 45A) (81337) 5-4-3352-1	FSQ	EA	4



**Table 2. Basic Issue Items List.**

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION, CAGEC, AND PART NUMBER	(4) USABLE ON CODE	(5) U/M	(6) QTY RQR
1	N/A	OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL FOR FORCE PROVIDER (located in TRICON 42A) TM10-5419-206-13		EA	1
2	N/A	OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR FORCE PROVIDER (located in TRICON 42A) TM 10-5419-206-23P		EA	1
3	N/A	OPERATOR'S, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL ARMY SPACE HEATER (ASH) ELECTRIC POWERED, MULTI-FUEL, 120,000 BTU, MODEL H120 (Four each located in each TRICON 41A) TM 9-4520-258-14		EA	68
4	N/A	UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL, REPAIR PARTS AND SPECIAL TOOLS LIST FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) (one each located in TRICON 42A, 42B and 42C) TM 10-8340-224-23		EA	3
5	N/A	UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST ARMY SPACE HEATER (ASH) ELECTRIC POWERED, MULTI-FUEL, 120,000 BTU, MODEL H120 (One each located in each TRICON 41A) TM 9-4520-258-24P		EA	17

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**OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE  
FORCE PROVIDER  
ADDITIONAL AUTHORIZATION LIST (AAL)**

---

**INTRODUCTION**

**Scope**

This work package lists additional items you are authorized for the support of Force Provider.

**General**

This list identifies items that do not have to accompany the Force Provider module, and that do not have to be turned in with it. These items are authorized to you by CTA, MTOE, TDA, or JTA.

**Explanation of Columns in the AAL**

Column (1) - National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (2) - Description, Commercial and Government Entity Code (CAGEC), and Part Number (P/N). Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The last line below the description is the CAGEC (in parentheses) and the part number.

Column (3) - Usable on Code - When applicable, gives you a code if the item you need is not the same for different models of equipment. *These codes are listed below:*

<u>Code</u>	<u>Used On</u>
FSN	Force Provider (Green)
FSQ	Force Provider (Tan)
FSS	Modification System, Cold Weather
FSR	Modification System, Prime Power
FST	Modification System, Power Generation

Column (4) - Unit of Measure (U/M). Indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (1).

Column (5) – Qty Recm. Indicates the quantity recommended.

## ADDITIONAL AUTHORIZED LIST ITEMS

Table 1. Additional Authorization List.

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) USABLE ON CODE	(4) U/M	(5) QTY RECM
7240-00-025-3377	CAN, GAS, MILITARY, GREEN, 97403, CID A-A-59592	FSN	EA	AR
7240-01-337-5268	CAN, GAS, MILITARY, TAN, 97403, CID A-A-59592	FSQ	EA	AR
7240-01-365-5317	CAN, WATER, MILITARY, GREEN, 81349, MIL-C-43613, TY1	FSN	EA	AR
7240-00-089-3827	CAN, WATER, MILITARY, TAN, 81349, MIL-C-43613, TY1	FSQ	EA	AR
6230-00-163-1856	FLASHLIGHT, 81349		EA	AR
8110-00-597-2353	FUEL DRUM, 55-GALLON, 81348		EA	AR
6640-00-063-7879	FUNNEL, 95352		EA	AR
4720-00-729-5334	GARDEN HOSE, 50 FT, 81348		EA	AR
5340-00-682-1508	PADLOCK, 81348		EA	AR
5120-01-013-1676	SLIDE HAMMER, GROUND, 45225		EA	AR



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**OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE  
FORCE PROVIDER  
EXPENDABLE AND DURABLE ITEMS LIST**

---

**SCOPE**

This work package lists expendable and durable items that you will need to operate and maintain Force Provider. This list is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (except Medical, Class V Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

**Explanation of Columns in the Expendable/Durable Items List**

Column (1) - Item Number. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., Use PLASTIC BAG (Item 5, WP 0102 00).

Column (2) - Level. This column identifies the lowest level of maintenance that requires the listed item (C=Operator/Crew).

Column (3) - National Stock Number (NSN). This is the NSN assigned to the item which you can use to requisition it.

Column (4) - Item Name, Description, Commercial and Government Entity Code (CAGEC), and Part Number (P/N). This column provides the other information you need to identify the item.

Column (5) - Unit of Measure (U/M). This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

**Table 1. Expendable and Durable Items List.**

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/M
1	C	7920-01-339-6928	ABSORBENT MATERIAL, SPILL CLEANUP (66735) F91D248	EA
2	C	8040-01-331-8047	ADHESIVE, SEALANT, SILICONE RTV, TUBE (80244) MIL-A-46106, TYPE I, GROUP I	TU
3	C	6850-00-664-1403	ANTIFREEZE, GLYCOL	GL
4	C		BACKGAMMON GAME	EA
5	C	8105-01-221-3239	BAG, PLASTIC, CONTAMINATED WASTE, SIZE 3 (58536) A-A-2299	RL
6	C	8105-00-935-7101	BAG, SAND, ACRYLIC, GREEN, (58536) A-A-52140A1	HD
7	C	8105-01-331-3704	BAG, SAND, ACRYLIC, TAN (58536) A-A-52140A-2, FSP, FSQ	HD
8	C	8105-00-331-3704	BAG, SAND, ACRYLIC, TAN, A-A-52140A-1	EA
9	C	7810-00-238-2420	BALL, BASEBALL, (66023) A1010	EA
10	C	7810-00-995-2055	BALL, FOOTBALL, (66023) F1250	EA
11	C	7810-00-X44-4642	BALL, SOCCER	EA
12	C	7810-00-249-3462	BALL, SOFTBALL, (66023) A9214	EA
13	C	7810-00-634-0187	BALL, TENNIS TABLE (4J202) 18111	BX
14	C		BASE SET	EA
15	C	7810-00-051-0565	BASEBALL CATCHER MITT, (77685) OB15	EA
16	C	7810-00-247-2900	BASEBALL LEG GUARD, (20552) B5063P-3	PR
17	C	7810-00-242-4319	BASEBALL MITT	EA
18	C	7810-00-242-4350	BASKETBALL, (66023) B1000	EA
19	C	9330-01-281-0337	BOOM, SPILL CONTAINMENT, HAZARDOUS MATERIAL (58536) A-A-1282	EA
20	C	7810-00-X44-4567	BOX DICE GAME	BX
21	C	7810-00-X44-4572	BRIDGE CARDS	PK
22	C	7920-00-291-8305	BROOM, UPRIGHT (80244) H-B-0051, TYPE 2	EA
23	C	7920-00-291-8305	BROOM, UPRIGHT, H-B-0051, TY2	EA

Table 1. Expendable and Durable Items List – Continued.

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/M
24	C	7920-00-772-5800	BRUSH, SANITARY (80244) A-A-3069 TYPE 1, CLASS1, AA3069/1A	EA
25	C	7920-00-240-7174	BRUSH, SCRUB (80244) 7920-00-240-7174	EA
26	C	5975-00-985-6630	CABLE TIE, NYLON, 14 IN 100LB, HD	BX
27	C	6810-12-132-2439	CALCIUM HYPOCHLORITE (D9478) 6810-0074	GL
28	C	7810-00-247-2901	CATCHERS BODY GUARD, (0H133) XLMR	EA
29	C	7810-00-242-4345	CATCHERS MASK, (66023) A9914	EA
30	C	7810-00-X44-4565	CHESS / CHECKERS GAME	EA
31	C	7810-00-X44-4566	CRIBBAGE BOARD GAME	EA
32	C	8135-01-068-7041	CUSHION (BARRIER) MATERIAL (98897) EPSG-24-515	SH
33	C	7810-00-X44-4631	DART BOARD, 18 IN	EA
34	C	7810-00-X44-4733	DARTS	ST
35	C	7930-00-985-6911	DETERGENT, GENERAL PURPOSE, MILD (81349) MIL-D-16791	GL
36	C	7810-00-X44-4568	DOMINOS GAME	EA
37	C	4130-01-469-1818	ECU AIR FILTER, (97403) 13230E3574	EA
38	C	2910-01-312-1406	FILTER, FLUID, (90005) 1752029-01	EA
39	C	6545-00-919-6650	FIRST AID KIT, GENERAL PURPOSE (64616) IRR A-6882	EA
40	C	6545-00-656-1094	FIRST AID KIT, GENERAL PURPOSE (80244) GG-K-391, TYPE 3	EA
41	C	3439-00-009-5449	FLUX, PASTE (87618) 30 SUPERSAFE, ASTM B-486, GRADE 77	TB
42	C	7810-00-X44-4569	FRISBEE, 10 IN	EA
43	O	9140-00-286-5284	FUEL, DIESEL (JP-8)	GL
44	C	7810-00-X44-4570	GAME CHIPS	PK
45	O	5330-01-138-2108	GASKET, COUPLING HALF, QDISC, ½ IN	EA

Table 1. Expendable and Durable Items List – Continued.

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/M
46	O	5330-00-551-4572	GASKET, COUPLING HALF, QDISC, 1 ¼ IN	EA
47	O	5330-00-088-9167	GASKET, COUPLING HALF, QDISC, 1 IN	EA
48	O	5330-00-075-3268	GASKET, COUPLING HALF, QDISC, 2 ½ IN	EA
49	C	5330-01-141-1864	GASKET, FLANGE, 4 IN	EA
50	C	5330-00-360-0595	GASKET, QDISC, 1 ½ IN, (96906) MS27030-5	EA
51	C	5330-00-612-2414	GASKET, QDISC, 2 IN, (96906) MS 27030-6	EA
52	C	5330-00-899-4509	GASKET, QDISC, 4 IN, (96906) MS 27030-9	EA
53	O	8415-00-782-2809	GLOVE INSERT, COTTON	EA
54	C	8415-00-753-6552	GLOVES, PROTECTIVE (81349) MIL-G-12223	PR
55	C	9150-01-024-6469	GREASE, (81349) MIL-G-18709	QT
56	C		HOME BASE	EA
57	C	7820-00-234-8461	HORSESHOE SET, (OFZP5) BSN-3219XXXX	EA
58	C	4730-00-908-3194	HOSE CLAMP, LP, TYPE F, SAE #12 (1¼-in)	BG
59	C	4730-00-908-3193	HOSE CLAMP, LP, TYPE F, SAE #24 (2-in)	BG
60	C	4730-00-908-8627	HOSE CLAMP, LP, TYPE F, SAE #36 (2¾-in)	BG
61	C	4730-00-908-3195	HOSE CLAMP, LP, TYPE F, SAE #6 (½-in)	BG
62	C	9150-01-102-9455	HYDRAULIC BRAKE FLUID, AUTOMOTIVE, MIL-B-46176 (81349)	GL
63	C	6240-00-152-2987	LAMP, FLUORESCENT (08108) F40CW	EA
64	C		LUBRICANT, GASKET, GROOVED PIPE (97403) 13225E9192	QT
65	C	7810-00-X44-4978	MITT, FIELDERS LEFT	EA
66	C	7810-01-009-1564	MITT, FIELDERS RIGHT, (66023) A2000DWT	EA
67	C	7820-00-944-9697	MONOPOLY GAME, (OFZP5) 4034XXXX	EA
68	C	7920-00-141-5550	MOP HEAD, WET (80244) T-M-561, TYPE 1, STYLE 1, CLASS 15	BX

Table 1. Expendable and Durable Items List – Continued.

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/M
69	C	9150-00-265-9428	MOTOR OIL, LUBRICATING, ENGINE, OE10, (81349) MIL-L2104	GL
70	C	9150-01-079-8310	MOTOR OIL, SAE W20, NONDETERGENT	EA
71	C	3510-00-841-8384	NET, LAUNDRY (81348) JJ-N-180	EA
72	C	7810-00-663-0252	NET, TENNIS TABLE, (0FZP5) BSN-NANP3	EA
73	C		O-RING, FILTER (13573), G-0986	EA
74	C	7920-00-753-5242	PAD, SCOURING (80244) L-P-0050 TY2CL1SZ1	EA
75	C	2040-00-272-2227	PADDLE, BOAT, (81349) MIL-P-15737	EA
76	C	7810-00-663-0544	PADDLE, TENNIS TABLE, (3Z817) 19192	PR
77	C	7820-01-055-8586	PINOCHLE CARDS, (61448) 918	PK
78	C	7810-00-X44-4632	PUZZLE	EA
79	C	7920-00-205-1711	RAGS, WIPING (58536) A-A-2522	LB
80	C	9905-00-194-9703	RIBBON, FLAG, SURVEYORS, PINK, A-A-1823-PINK	RL
81	C	5340-00-244-7325	SEAL STRAPPING, ½ IN, (70847) C254	EA
82	C	8520-00-129-0803	SOAP, TOILET (58536) A-A-51	BX
83	C	3439-00-198-3406	SOLDER, TIN ALLOY, SN50WS, 5 LBS (81348) QQ-S-571	LB
84	C	7920-00-884-1116	SPONGE, CELLULOSE (80244) L-S-00626 TYPE 2	BX
85	C	7920-00-926-5176	SPONGE, STAINLESS STEEL (80244) A-A-973, TP A	EA
86	C	5350-00-242-4404	STEEL WOOL (80244) A-A-1043 TY3CL1	LB
87	C	5340-00-245-9438	STRAP, STEEL BAND, HOSE, ½ IN, STAINLESS (70847) C204	FT
88	C	8030-00-889-3535	TAPE, ANTISEIZE, 1/2 IN WIDE X 260 IN LONG (80244) MIL-T-27730, SIZE II	RL
89	C	7930-00-103-2254	TAPE, DUCT (07124) C-519	RL
90	C	5970-00-644-3167	TAPE, INSULATING, ELECTRICAL (58536) A-A-2094	RL

Table 1. Expendable and Durable Items List – Continued.

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/M
91	C	8540-00-530-3770	TOILET TISSUE, SINGLE PLY (ROLL), BOX, WHITE, SINGLE PLY, UNGLAZED (58536) A-A-697	BX
92	C	7210-01-051-5837	TOWELS, BATH, COTTON, TERRY (80244) DDD-T- 551 TYPE 1 CLASS 1 STYLE A, B, OR C	DZ

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## ***These are the instructions for sending an electronic 2028***

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" <whomever@avma27.army.mil>  
To: TACOMLCMC.DAForm2028@us.army.mil

Subject: DA Form 2028

1. From: Joe Smith
2. Unit: home
3. Address: 4300 Park
4. City: Hometown
5. St: MO
6. Zip: 77777
7. Date Sent: 19-OCT-93
8. Pub no: 55-2840-229-23
9. Pub Title: TM
10. Publication Date: 04-JUL-85
11. Change Number: 7
12. Submitter Rank: MSG
13. Submitter FName: Joe
14. Submitter MName: T
15. Submitter LName: Smith
16. Submitter Phone: 123-123-1234
17. Problem: 1
18. Page: 2
19. Paragraph: 3
20. Line: 4
21. NSN: 5
22. Reference: 6
23. Figure: 7
24. Table: 8
25. Item: 9
26. Total: 123
27. Text:

This is the text for the problem below line 27.



<b>RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS</b> For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE 21 October 2003
<b>TO:</b> (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TECHPUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360						<b>FROM:</b> (Activity and location) (Include ZIP Code)  PFC JANE DOE Co A 3 <sup>RD</sup> Engineer Br. Ft Leonard Wood, MO 63108	
<b>PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS</b>							
PUBLICATION/FORM NUMBER TM 10-1670-296-23&P						DATE 30 October 2002	TITLE Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO.*	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Provide exact wording of recommended changes, if possible).	
	0036 00-2				1	<p>In Table 1, Sewing Machine Code Symbols, the second sewing machine code symbol should be MDZZ not MD22</p> <p>Change the manual to show Sewing Machine, Industrial: Zig-Zag; 308 stitch; medium-duty; NSN 3530-01-181-1421 as a MDZZ code symbol.</p>	
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE  Jane Doe, PFC				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION (508) 233-4141 DSN 256-4141		SIGNATURE  Jane Doe Jane Doe	

<b>TO:</b> <i>(Forward direct to addressee listed in publication)</i> US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TEHPUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360	<b>FROM:</b> <i>(Activity and location) (Include ZIP Code)</i> PFC JANE DOE Co A 3 <sup>RD</sup> Engineer Br. Ft Leonard Wood, MO 63108	<b>DATE</b> 21 October 2003
---	--	--------------------------------

**PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS**

PUBLICATION NUMBER TM 10-1670-296-23&P	DATE 30 October 2002	TITLE Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
0066 00-					4			<i>Callout 16 in figure 4 is pointed to a <u>D-Ring</u>. In the Repair Part List key for Figure 4, item 16 is called a <u>Snap Hook</u>. Please correct one or the other.</i>

**PART III – REMARKS** *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
----------------------------	--	-----------

<b>RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS</b>  For use of this form, see AR 25-30; the proponent agency is ODISC4.	Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
---	---	------

<b>TO:</b> (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TECHPUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360	<b>FROM:</b> (Activity and location) (Include ZIP Code)
---	---

**PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS**

PUBLICATION/FORM NUMBER TM 10-5419-206-13	DATE	TITLE Operator's, Unit, and Direct Support Maintenance Manual for Force Provider
--	------	---

ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON <i>(Provide exact wording of recommended changes, if possible).</i>
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*\*Reference to line numbers within the paragraph or subparagraph.*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
----------------------------	--	-----------

<b>TO:</b> (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TECHPUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360	<b>FROM:</b> (Activity and location) (Include ZIP Code)	<b>DATE</b>
---	---	-------------

**PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS**

PUBLICATION NUMBER TM 10-5419-206-13				DATE		TITLE Operator's, Unit, and Direct Support Maintenance Manual for Force Provider		
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

**PART III – REMARKS** (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

Empty space for remarks
-------------------------

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
----------------------------	--	-----------



<b>RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS</b>  For use of this form, see AR 25-30; the proponent agency is ODISC4.	Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
---	---	------

<b>TO:</b> (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TECHPUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360	<b>FROM:</b> (Activity and location) (Include ZIP Code)
---	---

**PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS**

PUBLICATION/FORM NUMBER TM 10-5419-206-13	DATE	TITLE Operator's, Unit, and Direct Support Maintenance Manual for Force Provider
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ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON <i>(Provide exact wording of recommended changes, if possible).</i>
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*\*Reference to line numbers within the paragraph or subparagraph.*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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<b>TO:</b> <i>(Forward to proponent of publication or form) (Include ZIP Code)</i> US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TECHPUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360	<b>FROM:</b> <i>(Activity and location) (Include ZIP Code)</i>	<b>DATE</b>
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**PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS**

PUBLICATION NUMBER TM 10-5419-206-13				DATE		TITLE Operator's, Unit, and Direct Support Maintenance Manual for Force Provider		
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION


**PART III – REMARKS** *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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By Order of the Secretary of the Army:

RAYMOND T. ODIERNO  
*General, United States Army*  
*Chief of Staff*

Official:

  
JOYCE E. MORROW  
*Administrative Assistant to the*  
*Secretary of the Army*  
1117208

**DISTRIBUTION:**

To be distributed in accordance with initial distribution number (IDN) 257878 requirements for TM 10-5419-206-13.



# The Metric System and Equivalents

## Linear Measure

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 dekameter = 10 meters = 32.8 feet  
 1 hectometer = 10 dekameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

## Weights

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigrams = .035 ounce  
 1 dekagram = 10 grams = .35 ounce  
 1 hectogram = 10 dekagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short tons

## Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

## Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet  
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

## Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 feet

## Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

## Temperature (Exact)

    °F    Fahrenheit    5/9 (after    Celsius        °C  
 temperature    subtracting 32)    temperature

**PIN: 086839-000**