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**ARMY TECHNICAL MANUAL
AIR FORCE TECHNICAL ORDER**

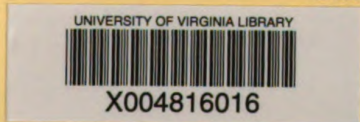
**TM 5-6115-594-14&P
TO 35C2-3-1-461**

TECHNICAL MANUAL

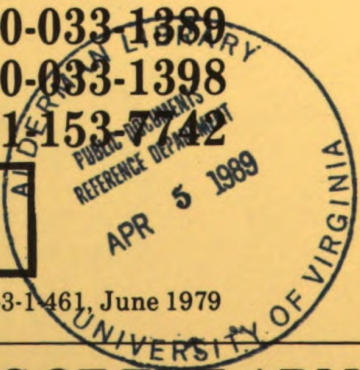
**OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)**

**GENERATOR SETS, DIESEL
ENGINE DRIVEN, TRAILER MOUNTED**

PU405A/M	NSN 6115-00-394-9577
PU406B/M	NSN 6115-00-394-9576
PU732/M	NSN 6115-00-260-3082
PU760/M	NSN 6115-00-394-9581
PU707A/M	NSN 6115-00-394-9573
PU495A/G	NSN 6115-00-394-9575
AN/MJQ-10A	NSN 6115-00-394-9582
AN/MJQ-15	NSN 6115-00-400-7591
PU650B/G	NSN 6115-00-258-1622
AN/MSQ-12A	NSN 6115-00-757-1602
PU751/M	NSN 6115-00-033-1373
AN/MJQ-16	NSN 6115-00-033-1395
PU753/M	NSN 6115-00-033-1389
AN/MJQ-18	NSN 6115-00-033-1398
AN/MJQ-25	NSN 6115-01-153-1461



This copy is a reprint which includes current pages from Changes 1 and 2.



This manual supersedes TM 5-6115-594-14&P/TO 35C2-3-1-461, June 1979

**HEADQUARTERS, DEPARTMENTS OF THE ARMY
AND AIR FORCE**

25 SEPTEMBER 1984

CHANGE }
No. 2 }

HEADQUARTERS, DEPARTMENTS OF
THE ARMY AND THE AIR FORCE
WASHINGTON, D.C., 24 October 1986

Operator, Organizational, Direct Support,
and General Support Maintenance Manual
(Including Repair Parts and Special Tools List)

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DRIVEN, TRAILER MOUNTED

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AN/MJQ-18	NSN 6115-00-033-1398
AN/MJQ-25	NSN 6115-01-153-7742
PU789/M	NSN 6115-01-208-9827

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DISTRIBUTION:

To be distributed in accordance with DA Form 12-25A Operator, Organizational, Direct Support, and General Support Maintenance Requirements for Generator Set, Diesel Engine Driven, Trailer Mounted.

TECHNICAL MANUAL

TM 5-6115-594-14&P

**HEADQUARTERS, DEPARTMENTS OF
THE ARMY AND THE AIR FORCE**
WASHINGTON, D.C., 4 September 1986

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DRIVEN, TRAILER MOUNTED**

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AN/MJQ-18	NSN 6115-00-033-1398
AN/MQ-25	NSN 6115-01-153-7742
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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope.

a. This manual is published for the use of personnel to whom the Trailer Mounted Generator Sets described in Chapters 2 thru 15 are issued.

b. Each individual Power Unit (PU) Generator Set and Power Plant is assigned a chapter. The assigned chapter provides information on setting-up, operation and the maintenance of auxiliary equipment (components and accessories that are peculiar to each individual PU and Power Plant).

c. The appropriate Technical Manual (TM) published for the Trailer and Generator peculiar to each PU set and Power Plant are referenced in each chapter and these manuals must be used to supplement the information in this manual.

1-2. Forms and Records

a. DA Forms and records used for equipment maintenance will be only those prescribed in DA Pam 738-750.

b. You can help improve this manual. If you find any mistake or if you find a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form

2028-2 located in the back of this manual direct to: Commander, U.S. Army Troop Support Command, ATTN: AMSTR-MPS, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you. Air Force users should submit AF-TO Form 22 directly to: Commander, Sacramento Air Logistics Center, ATTN: MMEDT, McClellan Air Force Base, California 95652, in accordance with TO-00-5-1.

c. Hand receipts covering the Components of End Item (COEI), Basic Issue Item (BII) and Additional Authorized List (AAL) items are published in a Hand Receipt Manual. The Hand Receipt Manual numerical designation is the same as the related Technical Manual with the letters HR added to the number. These manuals are published to aid in property accountability and are available through: Commander, US Army Adjutant General Publications Center, 2800 Eastern Boulevard, Baltimore, MD 21220.

1-3. **External Fuel Tank Connections.** Attach the auxiliary fuel hose from the auxiliary fuel tanks to the three-way fuel valve so that the fuel may be drawn from the auxiliary tank by turning valve to auxiliary.

Section II. REPAIR PARTS

1-4. Scope.

This manual lists repair parts, required for the performance of organizational, direct support and general support maintenance of the generator sets. It authorizes the requisitioning and issue of repair parts as indicated by the source and maintenance codes.

1-5. **General.** Section III, Repair Parts List. A list of repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts.

1-6. **Explanation of Columns.** The following provides an explanation of columns in the tabular list.

a. **Illustration.** This column is divided as follows:

(1) **Figure Number.** (Column 1a) indicates the figure number of the illustration on which the item is shown.

(2) **Item Number.** (Column 1b) indicates the callout number used to reference the item on the illustration.

b. **Source, Maintenance and Recoverability Codes (SMR).**

(1) Source Codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR code format as follows:

Code	Definition	Code	Definition
PA	Item procured and stocked for anticipated or known usage.	AO	Item to be assembled at organizational level.
PB	Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply system.	AF	Item to be assembled at direct support maintenance level.
PC	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.	AH	Item to be assembled at general support maintenance level.
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.	AD	Item to be assembled at depot maintenance level.
PE	Support equipment procured and stocked for initial issue or outfittings to specified maintenance repair activities.	XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
PF	Support equipment which will not be stocked but which will be centrally procured on demand.	XB	Item is not procured or stocked. If not available through salvage, requisition.
PG	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time.	XC	Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number
KD	An item of a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.	XD	A support item that is not stocked. When required, item will be procured through normal supply channels.
KF	An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.		
KB	Item included in both a depot overhaul/repair kit and a maintenance kit.		
MO	Item to be manufactured or fabricated at organizational level.		
MF	Item to be manufactured or fabricated at the direct support maintenance level.		
MH	Item to be manufactured or fabricated at the general support maintenance level.		
MD	Item to be manufactured or fabricated at the depot maintenance level.		

NOTE

Cannibalization or salvage may be used as a source of supply for any items coded above except those coded XA and aircraft support items as restricted by AR 700-42.

(2) **Maintenance Code.** Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the fourth position will indicate one of the following levels of maintenance:

Code	Application/Explanation
C	Crew or operator maintenance performed within organizational maintenance.
O	Support item is removed, replaced, used at the organizational level.
F	Support item is removed, replaced, used at the direct support level.

- H Support item is removed, replaced, used at the general support level.
- D Support items that are removed, replaced, used at depot, mobile depot, or specialized repair activity only.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes.

Code	Application/Explanation
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	The lowest maintenance level capable of complete repair of the support item is the direct support level.
H	The lowest maintenance level capable of complete repair of the support item is the general support level.
D	The lowest maintenance level capable of complete repair of the support item is the depot level.
L	Repair restricted to (enter applicable designated specialized repair activity), Specialized Repair Activity.
Z	Nonreparable. No repair is authorized.
B	No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.

(3) **Recoverability Code.** Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code format as follows:

Recoverability Codes	Definition
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
O	Reparable item. When uneconomically reparable, condemn and dispose at organizational level.

- F Repairable item. When uneconomically reparable, condemn and dispose at the direct support level.
- H Repairable item. When uneconomically reparable, condemn and dispose at the general support level.
- D Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
- L Repairable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.
- A Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. National Stock Number. Indicates the National Stock Number assigned to the item and which will be used for requisitioning.

NOTE

When a stock numbered item is requisitioned, the item received may have a different part number than the part being replaced.

d. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

e. Part Number. Indicates the primary number used by the manufacturer (individual company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc.). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

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h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, (e.g., shims, spacers, etc.).

CHAPTER 2

POWER PLANT PU405A/M

Section I. DESCRIPTION AND DATA

2-1. Description.

a. General. Power Unit PU405A/M, NSN 6115-00-394-9577, is made up of one 15KW, 50/60 Hz, Tactical Utility, Diesel Engine-Drive (DED) Generator Set, DOD Model MEP-004A, mounted on a modified M200A1, 2-1/2 ton trailer.

b. Function. The PU405A/M is mobile, and may be used to supply power to any system or equipment requiring up to 15KW, and 50/60 Hz input operating power.

c. The equipment listed below is used with Power Unit PU405A/M.

Qty	Description-List of Equipment	Identifying No.
2	Rod, Ground, Driven, Sectional 9 ft (2.7 m) (stored in accessory box)	MIL-R-11461
1	Spout, Can, Flexible (stored in accessory box)	MIL-S-1285
1	Adapter Assembly, Fuel Drum (stored in accessory box)	(97403) 13211E7541
1	Accessory Box	(97403) 13214E1256
1	Hammer, Hand, Engineers, 8 lb (3.6 kg) (stored in accessory box)	GGG-H-86
1	Extinguisher, Fire, Hand, 5 lb (2.3 kg)	O-E-910
1	Generator Set, DED, 15 KW, 50/60 Hz, Military Design, DOD MEP-004A, NSN 6115-00-118-1241	MIL-G-52884/2
2	Bracket Assembly, Liquid Container 5 gal. (1.9 liters)	MS53052-1
1	Trailer, Modified, Model M200A1, 2-1/2 ton	(97403) 13214E1257
1	Hammer, Slide, 36" long, 16" wide NSN 5120-01-013-1676	(97403) 13226E7741

2-2. Tabulated Data.

a. Refer to TM 5-6115-464-12 and -34 technical manuals for additional information concerning DED.

ENGINE

Manufacturer	White Engines, Inc. Hercules Engine Division	Cooling System Capacity	18.6 quarts (17.6 liters)
Model DOD DRAWING Number	D-198-ERX51 72-2222	Winterization Kit	Use when temperature is -25°F (-31.7°C) or below
Type	4 Cylinder, 4 Cycle, Liquid-Cooled Diesel	Crankcase Capacity	8.0 quarts (7.6 liters)
Rated Horsepower at	1500-rpm - 35 continuous 1800 rpm - 41 continuous	Fuel Tank Capacity Electrical System	15.0 gallons (56.8 liters) 24V, negative ground

GENERATOR (50/60 Hz)

Manufacturer	Electric Machinery Company
DOD Drawing Number	72-2400
Type	Rotating Field Synchronous, brushless
Load Capacity	(1500 rpm) 12.5KW @ 50 Hz (1800 rpm) 15 KW @ 60 Hz
Current Rating	(1500 rpm) 43 Amps @ 120/208 VAC (1500 rpm) 21.5 Amps @ 240/416 VAC (1800 rpm) 52 Amps @ 120/208 VAC (1800 rpm) 26 Amps @ 240/416 VAC
Power Factor	0.8

b. Generator Set Dimension and Weight:

Length	70 inches (177.8 cm)
Width	36 inches (91.4 cm)
Height	55 inches (139.7 cm)
Weight	dry 2450 pounds (1111 kg)

c. Trailer. The generator set is mounted on a modified M200A1, 2-1/2 ton, 2-wheel trailer. The trailer can be towed over prepared roads with loads to 6200 pounds (2812 kg) at a maximum speed of 55 mph (88.5 km/h). Over unimproved roads, trails and open rolling terrain the load limit is 6200 pounds (2812 kg) at a maximum speed of 30 mph (48.3 km/h). It will ford hardbottom water crossing to any depth that can be negotiated by the towing vehicle.

Towing Facilities	Lunette
Towing Vehicle	5 ton 6x6
Brakes	Air over hydraulic
Handbrakes	Mechanical, hand-lever controlled

Tires	Pneumatic, normal use 45 psi (3.16 kg/sq cm). In mud, snow and sand use 15 psi (1.06 kg/sq cm)
Voltage (lighting)	24 Vdc
Weight	2550 pounds (1157 kg) (less Fender Assembly)

2-3. Description of Major Components.

a. Vehicle and Mounting Facilities.

(1) The M200A1 Trailer, described in TM 9-2330-205-14, has been modified for use with the 15 KW, 50/60 Hz Generator Set as follows:

(a) **Handbrake Levers.** The two handbrake levers have been removed from under the trailer frame and mounted on the front steps of the Fender Assembly.

(b) **Taillight and Stoplight Assembly.** Taillight assemblies have been changed to composite taillight assemblies. The right rear taillight and stoplight assembly has been removed and relocated to the right of its original location.

(c) **Fender Kit Assembly.** The fender assembly is fitted to the trailer frame and provides platform work area for personnel.

(d) **Personnel Platform.** A retractable personnel platform is mounted at the rear of the trailer frame and provides platform work area for personnel.

(e) **Rear Landing Leg Assemblies.** Two landing legs are provided, one at each side of the rear channel of the frame.

(2) **Generator Set Technical Manuals.** The following technical manuals are applicable to the generator set:

(a) Refer to TM 5-6115-464-12 and -34 for operation and maintenance instructions for the 120/208, 240/416V, 3 Phase, 4 Wire, 50/60 Hz Liquid-Cooled, Skid Mounted DOD Generator Set, Model MEP-004A, NSN 6115-00-118-1241.

(b) Refer to TM 5-6115-464-24P for the repair parts and special tools list associated with the generator set.

Section II. OPERATING INSTRUCTIONS

2-4. Inspecting and Servicing Equipment.

a. Generator Set. Perform the inspection and servicing procedures described in TM 5-6115-464-12.

b. M200A1 Trailer. Perform preliminary services procedures as described in TM 9-2330-205-14.

2-5. Installation.

a. Trailer.

(1) Locate the trailer on as level a surface as possible in order for the generator set to operate efficiently.

(2) Set brakes and block wheels securely to prevent any movement.

(3) Pull leg supports down and adjust length for firm contact with ground.

WARNING

Wheels must be blocked, brakes set and leg supports down in support position before operating the equipment.

b. External Fuel Line Connections. When the generator set is to be operated for long intervals, frequent refilling of the fuel tank can be eliminated by obtaining fuel from an external source (such as a 55 gallon diesel fuel drum)

(1) Connect the auxiliary fuel line to the generator set auxiliary fuel supply connection located below the integral tank filler cap.

(2) Connect the auxiliary fuel line to the auxiliary fuel source.

(3) Position the fuel selector valve in the auxiliary position.

c. Ground Connections. The generator set may be grounded to an underground metallic water system, a driven metal rod or a buried metal plate. A ground rod must have a minimum diameter of 5/8 inch if solid or 3/4 inch if pipe, and must be driven to a minimum depth of 8 feet. Saturate hole with salt water. A ground plate must have a minimum area of 9 square feet and be buried to a minimum depth of 4 feet. The ground lead must be at least No. 6 AWG copper wire. If a ground rod is used, connect the generator set to ground

WARNING

Do not operate the generator set until it has been connected to a suitable ground. Serious injury or death by electrocution can result from operating an ungrounded generator set.

2-6. Starting.

a. Perform the prestarting procedures described in paragraph 2-4.

b. Start the generator set as instructed in paragraph 2-10 in TM 5-6115-464-12.

2-7. Stopping. Stop the generator set as instructed in paragraph 2-11 in TM 5-6115-464-12.

2-8. Tiedown Instructions for Shipping Power Units by Railroad Transportation. See Appendix C.

2-9. Cleaning. The power unit or power plant shall be cleaned by wiping dirt and dust off the equipment with a clean, dry cloth. Also, use a brush on hard-to-remove caked dirt.

Section III. REPAIR PARTS

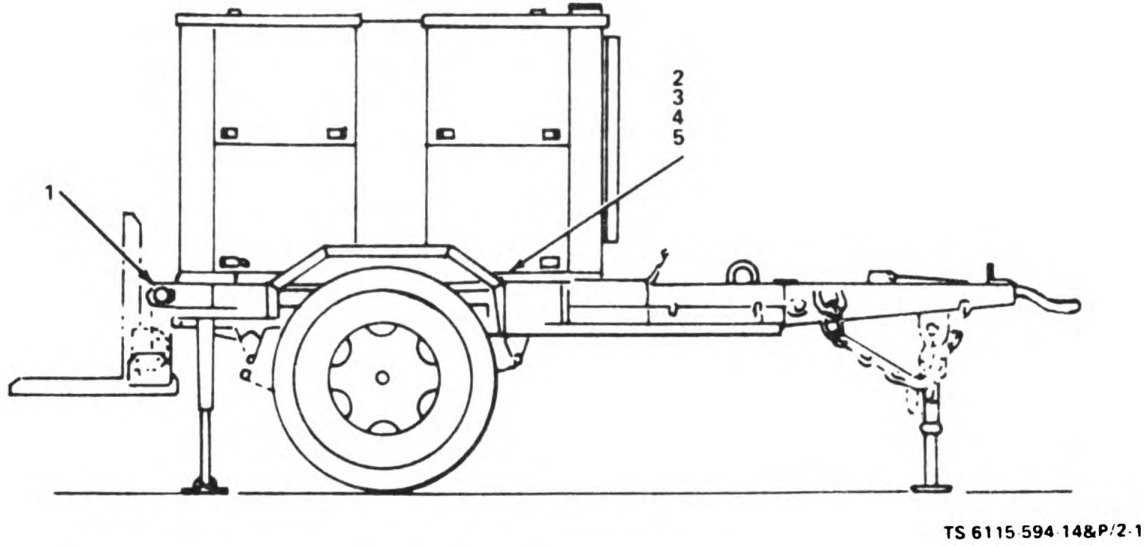
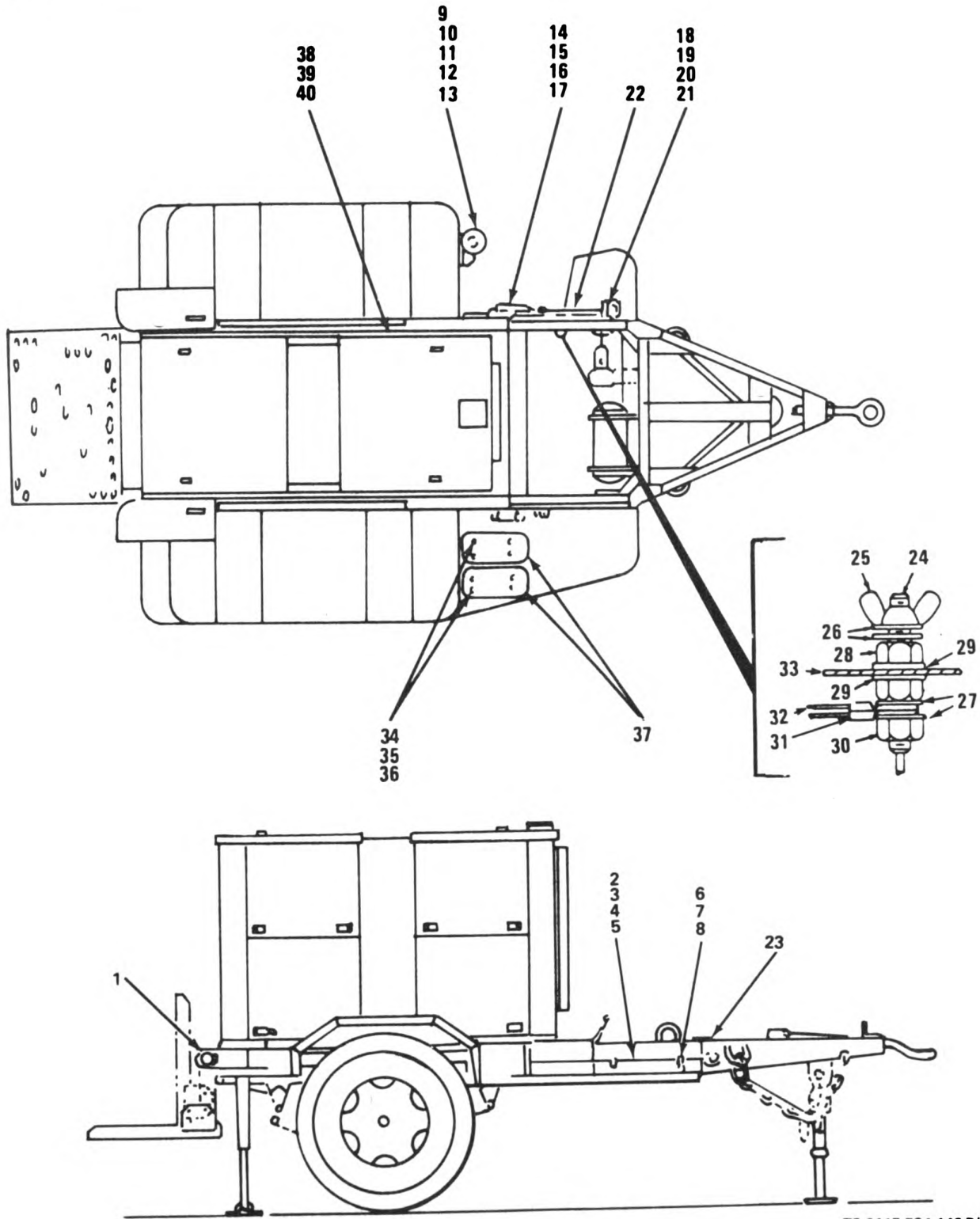


Figure 2-1. Generator Set, PU 450A/M

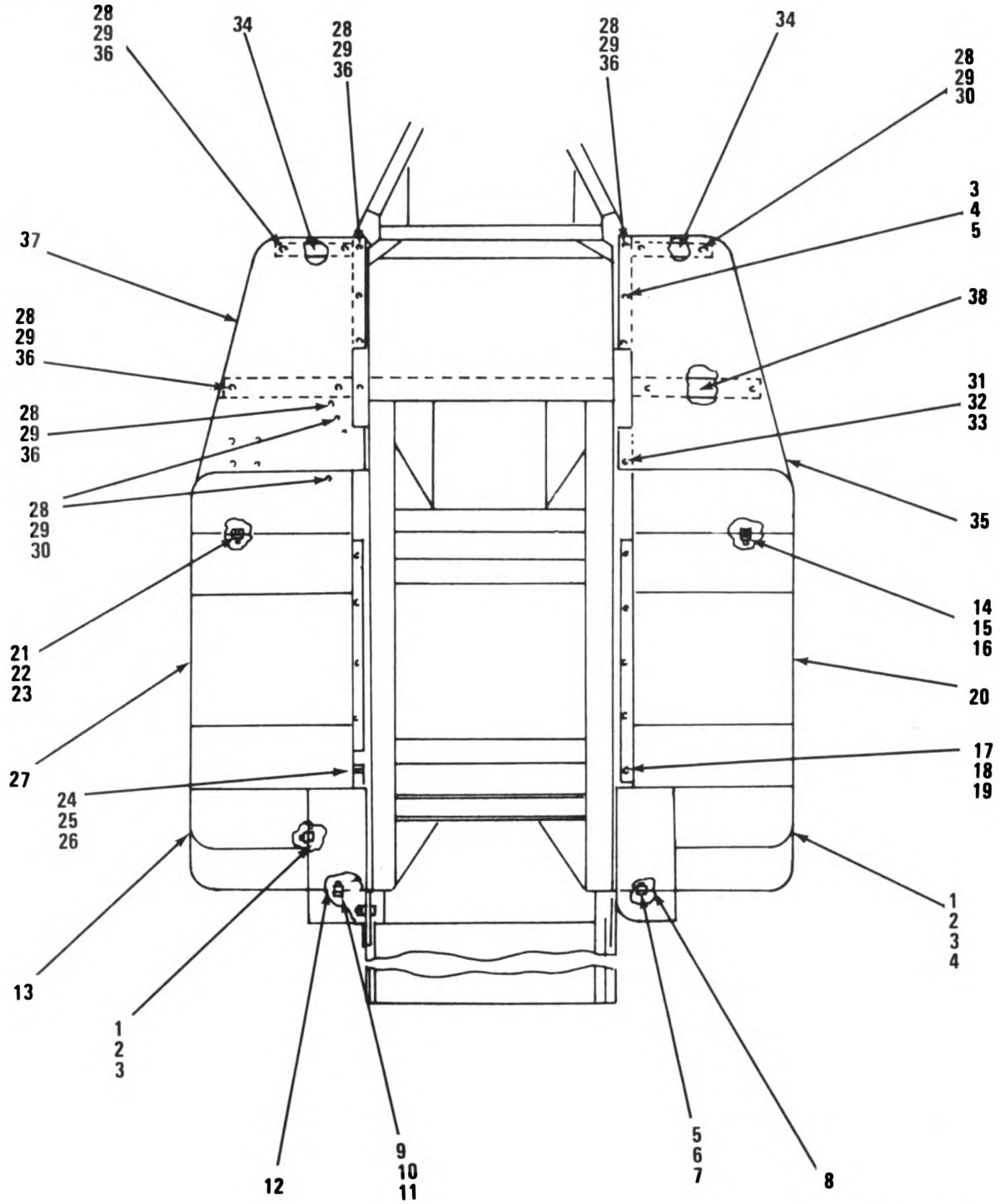
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE U/M	QTY INC IN UNIT
2-1	1	PDFHH	6115-00-118-1241	30554	MEP004A	GENERATOR SET, DED 15KW, 50/60 HZ, MILITARY DESIGN	EA	1
2-1	2	PAPZZ	5310-00-269-4040	96906	MS51922-49	NUT, SELF-LOCKING	EA	8
2-1	3	PAPZZ	5310-00-823-8803	96906	MS27183-21	WASHER, FLAT	EA	8
2-1	4	PAPZZ	5305-00-724-7222	96906	MS90728-164	SCREW, CAP, HEXAGON	EA	8
2-1	5	PAPZZ		97403	13206E4482-3	WASHER, BEVELED	EA	4



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Figure 2-2 Generator Set, Side and Top Views, PU 405A/M

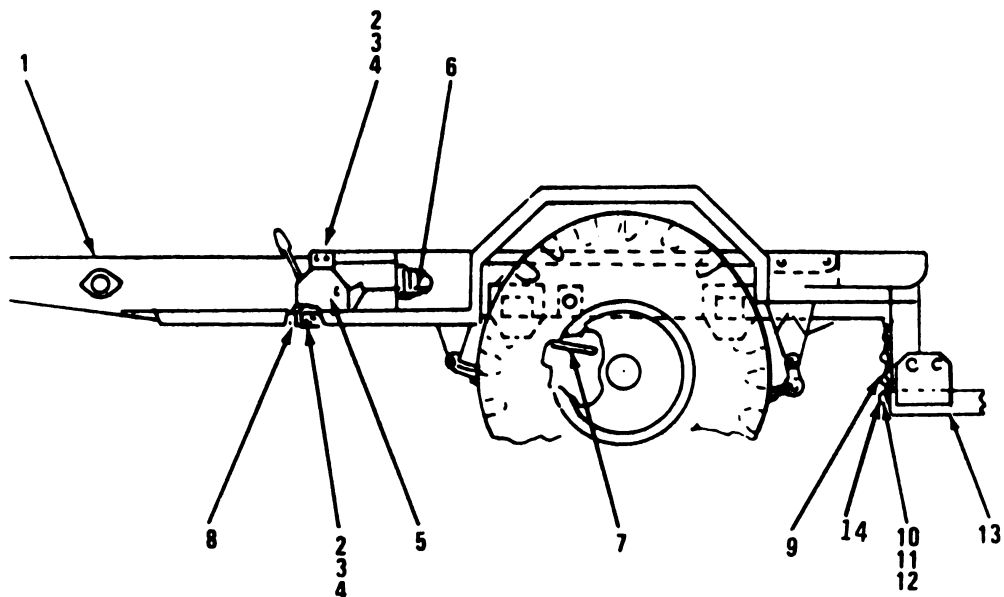
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
2-2	1	XBFFF		97403	13214E1257	TRAILER, M200A1	EA	1
2-2	2	PAOZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	3
2-2	3	PAOZZ	5310-00-087-7493	96906	MS27183-13	WASHER, FLAT	EA	3
2-2	4	PAOZZ	5306-00-225-8498	96906	MS90725-33	BOLT, MACHINE	EA	3
2-2	5	XBOOO		97403	13214E1256	ACCESSORY BOX	EA	1
2-2	6	PAOZZ	5975-00-878-3791	07464	3598	ROD, GROUND	EA	2
2-2	7	PAOZZ	7240-00-177-6154	09647	838A7511	SPOUT, CAN, FLEXIBLE	EA	1
2-2	8	PAOZZ	2910-00-066-1235	97403	13211E7541	ADAPTER ASSY, FUEL	EA	1
2-2	9	PAOZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	12
2-2	10	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	20
2-2	11	PAOZZ	5305-00-984-5691	96906	MS35206-311	SCREW, MACHINE	EA	4
2-2	12	PAOZF	4210-00-270-4512	02788	F5COV	EXTINGUISHER, FIRE	EA	1
2-2	13	XBOZZ		97403	13214E1235	BRACKET, FIRE EXT	EA	1
2-2	14	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	1
2-2	15	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	1
2-2	16	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEXAGON	EA	1
2-2	17	XBOZZ		97403	13214E1213-1	CLIP, SPRING	EA	1
2-2	18	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	2
2-2	19	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	2
2-2	20	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEXAGON	EA	2
2-2	21	XBOZZ		97403	13214E1214	BRACKET ASSEMBLY	EA	1
2-2	22	PAOZZ	5120-00-251-4489	77348	H8H	HAMMER, HAND	EA	1
2-2	23	XBOZZ		97403	13216E7604-37	PLATE, IDENT	EA	1
2-2	24	XBOZZ		97403	13214E1223	STUD, CONTINUOUS, TRAILER	EA	1
2-2	25	PAOZZ	5310-00-543-4717	96906	MS35425-28	NUT, PLAIN, WING	EA	1
2-2	26	PAOZZ	5310-01-004-9129	88044	AN961-616S	WASHER, FLAT	EA	4
2-2	27	PAOZZ	5310-00-187-2413	88044	AN961-616T	WASHER, FLAT	EA	4
2-2	28	PAOZZ	5310-01-026-5824	96906	MS16203-39	NUT, PLAIN, HEXAGON	EA	2
2-2	29	PAOZZ	5310-00-022-8847	96906	MS35333-110	WASHER, LOCK	EA	2
2-2	30	PAOZZ	5310-00-584-7995	96906	MS16203-27	NUT, PLAIN, HEXAGON	EA	1
2-2	31	PAOZZ	5940-00-115-4992	96906	MS20659-110	TERMINAL, LUG	EA	2
2-2	32	PAOZZ	6145-00-395-8799	81348	QQ-W-343CO6B1T	WIRE, ELECTRICAL	FT	6
2-2	33	XBOZZ		97403	13205E4918	PLATE, IDENT	EA	1
2-2	34	PAOZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	8
2-2	35	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	8
2-2	36	PAOZZ	5305-00-269-3210	96906	MS90725-62	SCREW, CAP, HEXAGON	EA	8
2-2	37	XBOZZ		96906	MS53052-1	BRACKET ASSEMBLY	EA	2
2-2	38	PAOZZ	4730-00-908-3193	96906	MS35842-12	CLAMP, HOSE	EA	1
2-2	39	PAOZZ	4720-00-401-9299	96906	MS521301A206R	HOSE, NONMETALLIC	FT	3
2-2	40	PAOZZ	5325-00-290-1960	96906	MS35489-27	GROMMET, NONMETALLIC	EA	1



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Figure 2-3 Trailer, Top View

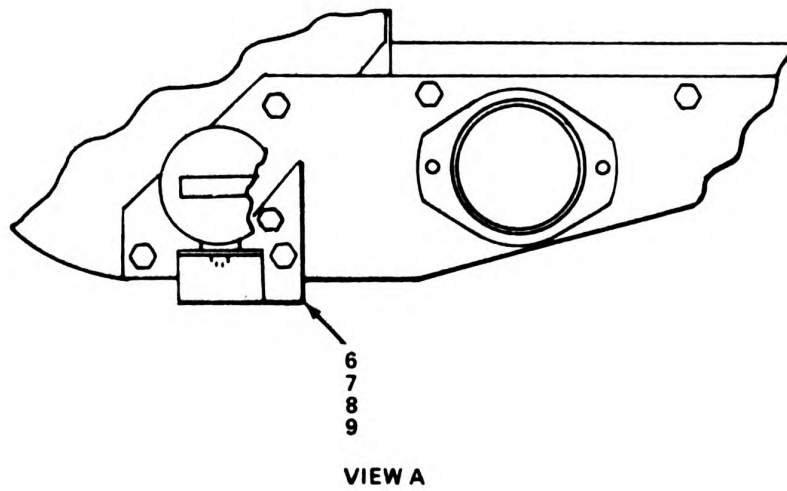
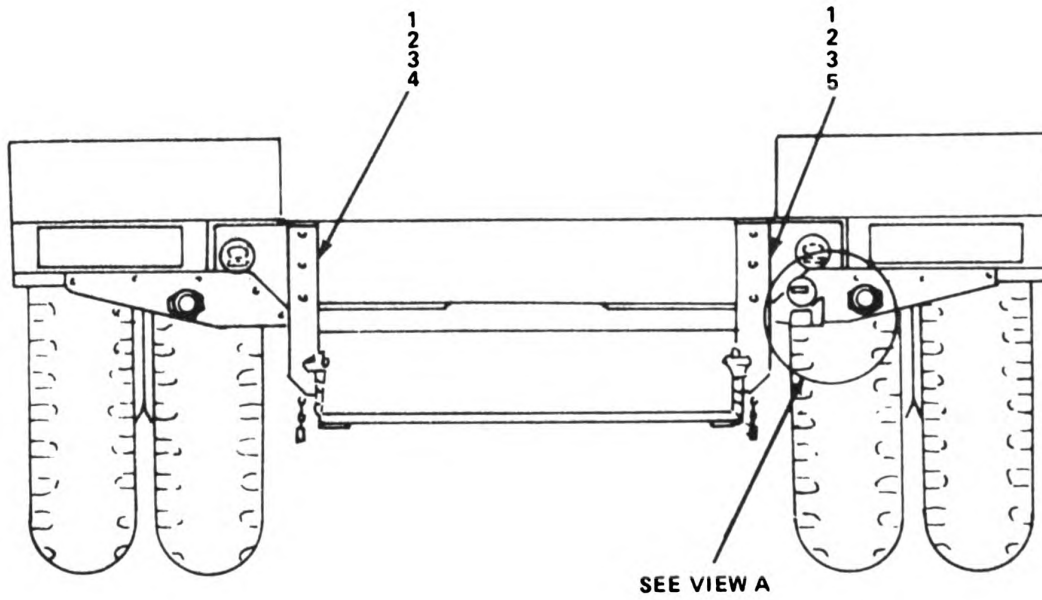
(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
2-3	1	PAPFE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 10
2-3	2	PAPFE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 20
2-3	3	PAPFE	5306-00-225-8499	96906	MS90725-34	BOLT, WASHER		EA 10
2-3	4	XBFEZ		97403	13214E1259	STEP, REAR, CURBSIDE		EA 1
2-3	5	PAPFE	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING		EA 3
2-3	6	PAPFE	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT		EA 3
2-3	7	PAPFE	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON		EA 3
2-3	8	XBFEZ	5340-01-025-7631	97403	13214E1309-2	BRACKET, STEP, REAR		EA 1
2-3	9	PAPFE	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING		EA 3
2-3	10	PAPFE	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT		EA 3
2-3	11	PAPFE	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON		EA 3
2-3	12	XBFEZ		97403	13214E1309-1	BRACKET, REAR STEP		EA 1
2-3	13	XBFEZ		97403	13214E1261	STEP, REAR, ROADSIDE		EA 1
2-3	14	PAPFE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 7
2-3	15	PAPFE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 14
2-3	16	PAPFE	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE		EA 7
2-3	17	PAPFE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 5
2-3	18	PAPFE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 10
2-3	19	PAPFE	5306-00-225-8500	96906	MS90725-35	BOLT, MACHINE		EA 5
2-3	20	XBFEZ		97403	13214E1263	FENDER, CURBSIDE		EA 1
2-3	21	PAPFE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 7
2-3	22	PAPFE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 14
2-3	23	PAPFE	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE		EA 1
2-3	24	PAPFE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 1
2-3	25	PAPFE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 10
2-3	26	PAPFE	5306-00-225-8500	96906	MS90725-35	BOLT, MACHINE		EA 5
2-3	27	XBFEZ		97403	13214E1264	FENDER, ROADSIDE		EA 1
2-3	28	PAPFE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 2
2-3	29	PAPFE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 4
2-3	30	PAPFE	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE		EA 2
2-3	31	PAPFE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 1
2-3	32	PAPFE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 2
2-3	33	PAPFE	5305-00-225-9081	96906	MS90725-36	SCREW, CAP, HEXAGON		EA 1
2-3	34	XBFEZ	5365-00-944-2692	97403	13214E1267-1	SPACER, PLATE		EA 2
2-3	35	XPFEZ	2330-01-150-9864	97403	13214E1461	STEP, FRONT, CURBSIDE		EA 1
2-3	36	PAPFE	5306-00-225-8503	96906	MS90725-39	BOLT, MACHINE		EA 8
2-3	37	PBFZZ	2510-01-196-4682	97403	13214E1462	STEP, FRONT, CURBSIDE		EA 1
2-3	38	XBFEZ	5365-00-945-5998	97403	13214E1267-2	SPACER, PLATE		EA 1



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Figure 5-4 Trailer, Side View

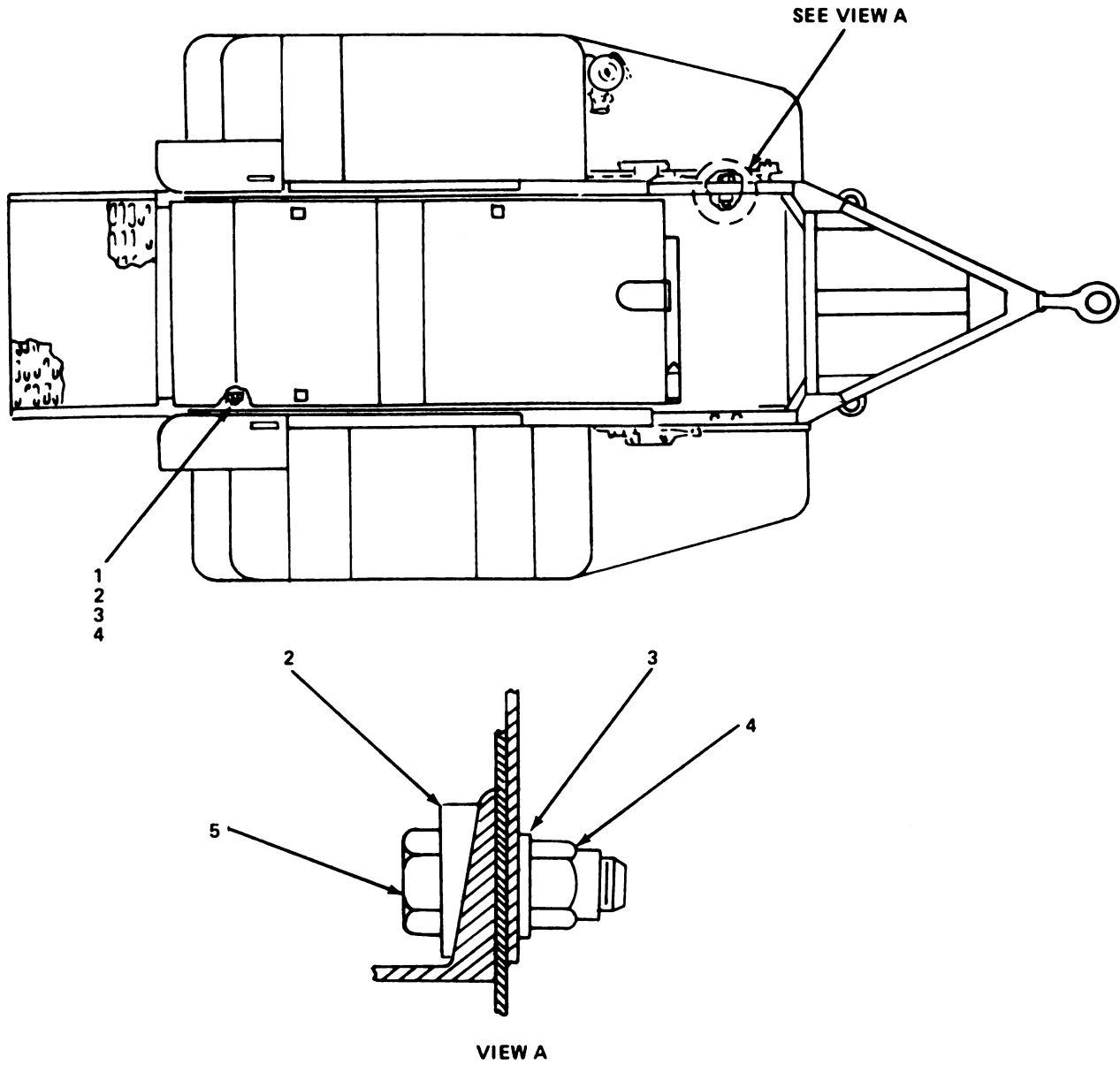
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(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	
3-4	1	XBFZZ		97403	13214E1258	CHASSIS	EA	1
3-4	2	PAFZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	6
3-4	3	PAFZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT	EA	12
3-4	4	PAFZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE	EA	6
3-4	5	PAFZZ		97403	13214E1269	BRACKET, BRAKE	EA	2
3-4	6	XBFZZ		97403	13214E1270	BRACKET, BRAKE CABLE	EA	2
3-4	7	XDFZZ	5365-00-944-2691	97403	13214E1271	SPACER, PLATE	EA	2
3-4	8	XBFZZ	5365-00-989-3304	97403	13214E1272	SPACER, SLEEVE	EA	4
3-4	9	PAFZZ	5340-01-156-6142	97403	13214E1303	ANCHOR, PLATFORM	EA	2
3-4	10	PAFZZ	5310-00-087-6356	96906	MS51922-57	NUT, SELF-LOCKING	EA	2
3-4	11	PAFZZ	5310-00-809-8533	96906	MS27183-23	WASHER, FLAT	EA	4
3-4	12	PAFZZ	5305-00-939-9204	96906	MS90725-187	SCREW, CAP, HEXAGON	EA	2
3-4	13	XBFZZ	2510-00-926-3517	97403	13214E1298	PLATFORM, TAILGATE	EA	1
3-4	14	PAOZZ	5340-00-051-1407	96906	MS17987-C810	PIN, QUICK RELEASE	EA	12



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Figure 6-5 Trailer, Rear View

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
6-5	1	PAFEE	5310-00-225-6993	96906	MS51922-33	Nut, Self-Locking		EA 6
6-5	2	PAFEE	5310-00-809-5998	96906	MS27183-18	Washer, Flat		EA 6
6-5	3	PAFEE	5305-00-042-6417	96906	MS90725-113	Screw, Cap, Hexagon		EA 6
6-5	4	XBFEZ	5340-00-087-7676	97403	13214E1299	Bracket, Angle		EA 1
6-5	5	XBFEZ	5340-00-999-6441	97403	13214E1300	Bracket, Angle		EA 1
6-5	6	PAFEE	5310-00-088-1251	96906	MS51922-1	Nut, Self-Locking		EA 2
6-5	7	PAFEE	5310-00-809-4058	96906	MS27183-10	Washer, Flat		EA 2
6-5	8	PAFEE	5305-00-225-3839	96906	MS90725-8	Screw, Cap, Hex Hd		EA 2
6-5	9	XBFEZ	2510-00-948-3258	97403	13214E1308	Bracket		EA 1



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Figure 6-6 Generator Mounting

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	
6-6	1	PAFZZ	5305-00-724-7224	96906	MS90728-166	SCREW, CAP, HEXAGON	EA	6
6-6	2	PAFZZ	5310-01-185-0586	97403	13206E4482-3	WASHER, BEVELED	EA	8
6-6	3	PAFZZ	5310-00-823-8803	96906	MS27183-21	WASHER, FLAT	EA	8
6-6	4	PAFZZ	5310-00-269-4040	96906	MS51922-49	NUT, SELF-LOCKING	EA	8
6-6	5	PAFZZ	5305-00-724-7222	96906	MS90728-164	SCREW, CAP, HEXAGON	EA	4

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CHAPTER 7

POWER UNIT, PU495A/G POWER UNIT PU495B/G

Section I. DESCRIPTION AND DATA

7-1. Description.

a. General. Power Unit PU495A/G, NSN 6115-00-394-9575, is made up of one 100KW, 50/60 Hz, Tactical Utility, Diesel Engine-Driven (DED) Generator Set, DOD Model MEP-007A, mounted on a modified M353, 3-1/2 ton trailer. Power Unit PU495B/G, NSN 6115-01-134-0165, is made up of one 100KW, 50/60 Hz, Diesel Engine Driven (DED) Generator Set, DOD Model MEP-007B, mounted on a 3-1/2 ton trailer, 2

wheel, Model M353.

b. Function. The PU495A/G and PU495B/G are mobile, and may be used to supply power to any system or equipment requiring up to 100KW, and 50/60 Hz input operating power.

c. The equipment listed below is used with Power Unit PU495A/G and PU495B/G.

Qty	Description-List of Equipment	Identifying No.
1	Hammer, Hand, Engineers, 8 lbs (3.6 kg) (stored in accessory box)	GGG-H-86
1	Spout, Can, Flexible (stored in accessory box)	MIL-S-1285
1	Extinguisher, Fire, Hand, 5 lbs (2.3 kg)	O-E-910
1	Adapter Assembly, Fuel Drum (stored in accessory box)	(97403) 13211E7541
2	Rod, Ground, Drive, Sectional, 9 ft (2.7 m) (stored in accessory box)	W-R-550
1	Accessory Box	D13214E1273
1	Generator Set, DED, 100 KW, 50/60 Hz, Military Design, DOD MEP-007A, NSN 6115-00-133-9101 (PU495A/G)	MIL-G-52884/11
1	Generator Set, DED, 100 KW, 50/60 Hz, Military Design, DOD MEP-007B, NSN 6115-01-036-6374 (PU495B/G)	MIL-G-52884/11
1	Trailer, Modified, Model M353, 3-1/2 ton	(97403) 13220E6330
1	Hammer, Slide, 36" long, 16" wide NSN 5120-01-013-1676	(97403) 13226E7741

7-2. Tabulated Data.

a. Refer to TM 5-6115-457-12 and -34 technical manuals for additional information concerning DED Generator Set, DOD Model MEP-007A. Refer to TM 5-6115-600-12 and -24P technical manuals for additional information concerning DED Generator Set, DOD Model MEP-007B.

Type	6 Cylinder, 4 Cycle, Liquid-Cooled Diesel
Rated Horsepower	1500-rpm - 150
at	1800 rpm - 170
Cooling System	44 quarts (41.6
Capacity	liters)
Winterization Kit	Use when tempera- ture is -25°F (-31.7°C) or below
Crankcase	29 quarts (27.4 liters)
Fuel Tank Capacity	90 gallons (281.1 liters)
Electrical System	24V, negative ground

ENGINE

Manufacturer	Caterpillar Tractor
Model	Company D333C(T)
DOD Drawing Number	70-4013

GENERATOR (50/60 Hz)

Manufacturer	Lima Electric Motor Company
DOD Drawing Number	70-40B
Type	Rotating Field Synchronous, brushless (1500 rpm) - 83.3KW @ 50 Hz (1800 rpm) 100 KW @ 60 Hz
Load Capacity	
KVA (Kilovolt Amperes)	104KVA @ 50 Hz 125KVA @ 60 Hz
Power Factor	0.8

b. Generator Set Dimensions and Weight:

Length	186 inches (472.4 cm)
Width	95-7/8 inches (218.1 cm)
Height	84-1/4 inches (214.0 cm)
Weight	(dry) 9650 pounds (4337 kg)

c. Trailer. The generator set is mounted on a modified M353, 3-1/2 ton, 2-wheel trailer. The trailer can be towed over prepared roads with loads to 8000 pounds (3629 kg) at a maximum speed of 50 mph (80.5 km/h). Over unimproved roads, trails and open rolling terrain the load limit is 700 pounds (3175 kg) at 25 mph (40.2 km/h). It will ford hard-bottom water crossings to any depth that can be negotiated by the towing vehicle.

Towing Facilities	Lunette
Towing Vehicle	6 ton 6X6

Brakes	Air over hydraulic
Handbrakes	Mechanical, hand-lever controlled
Tires	Pneumatic, normal use 50 psi (3.52 kg/sq cm). In mud, snow and sand use 15 psi (1.06 kg/sq cm)
Voltage (lighting)	24 VDC
Weight	2550 pounds (1157 kg)

7-3. Description of Major Components.

a. Trailer. The M353 Trailer has been modified for use in this Power Unit. The modification consists of addition of convenient steps on each corner of the trailer and operator platform to the front and rear of the set. Other parts were added for proper mounting of the Generator Set.

b. Generator Set. The Generator Set is a 100KW, 50 and 60 Hz, 3 phase, 4 wire, tactical utility Generator Set. The set is convertible to a tactical precise set, accomplished by adding a hydraulic actuator, electric governor control box, a precise relay box assembly and other parts and assemblies. Electric and winterization kits are also available for installation on the Generator Set for cold weather and arctic operations. For more information pertaining to the Generator Set DOD Model MEP 007A, see TM 5-6115-457-12. For information pertaining to the Generator Set, DOD Model MEP-007B, see TM 5-6115-600-12. Refer to TM 5-6115-457-24P for spare parts and special tools list associated with the generator set, DOD Model 007A, and to TM 5-6115-600-24P for spare parts and special tools associated with the generator set, DOD Model MEP-007B.

Section II. OPERATING INSTRUCTIONS

7-4. Inspecting and Servicing Equipment.

a. Generator Set. Perform the inspection and servicing procedures described in TM 5-6115-457-12 for DOD Model MEP-007A and to TM5-6115-600-24P for DOD Model MEP-007B.

b. M353 Trailer. Refer to TM 9-2330-247-14 for required preliminary and other services required

7-5. Installation.

a. Trailer. Locate the trailer on as level of terrain as available with parking site slightly higher than surrounding area. Do not park power unit for operation on a site where proper ventilation of the power unit would be restricted.

b. Fuel Connections. The power unit may be connected for remote supply by using the fuel drum adapter, the auxiliary fuel hose which is furnished in conjunction with the generator set and an auxiliary type fuel tank or a 55 gallon drum. For further instructions on connecting of the auxiliary fuel supply see TM 5-6115-457-12, Chapter 2 for DOD Model MEP-007A and to TM5-6115-600-12, Chapter 4 for DOD Model MEP-007B.

c. Ground Connections. The generator set may be grounded to an underground metallic water system, a driven metal rod or a buried metal plate. A ground rod must have a minimum diameter of 5/8 inch if solid or 3/4 inch if pipe, and must be driven to minimum depth of 8 feet. Saturate hole with salt water. A ground plate must have a minimum area of 9 square feet and be bu-

ried to a minimum depth of 4 feet. The ground lead must be at least No. 6 AWG copper wire. If a ground rod is used, connect the generator set to ground.

WARNING

Do not operate this power unit until it has been connected to a suitable ground. Serious injury or death by electrocution can result from operating an underground generator set.

7-6. Starting.

a. Perform the prestarting procedures described in paragraph 2-12, TM 5-6115-457-12 for DOD Model MEP-007A and in paragraph 2-3, TM 5-6115-600-12, for DOD Model MEP-007B.

b. Start the generator set, DOD MEP-007A, as described in Chapter 2, TM 5-6115-457-12, and the gener-

ator set, DOD Model MEP-007B, as described in Chapter 4, TM5-6115-600-12.

7-7. Stopping. Stop the generator set, DOD Model MEP-007A as instructed in Chapter 2, TM 5-6115-457-12, and the generator set, DOD Model MEP-007B, as described in Chapter 2, TM 5-6115-600-12.

7-8. Tiedown Instructions for Shipping Power Units by Railroad Transportation. See Appendix C.

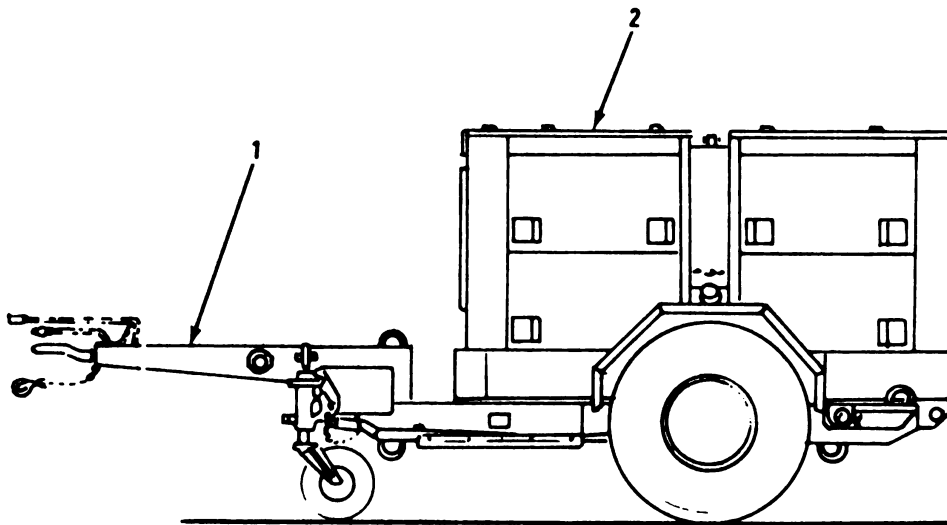
7-9. Special Information.

Identification of the usable on codes in Section III of this publication are:

<i>Code</i>	<i>Used on</i>
A	PU 495A/G
B	PU 495B/G

7-10. Cleaning. The power unit or power plant shall be cleaned by wiping dirt and dust off the equipment with a clean, dry cloth. Also, use a brush on hard-to-remove caked dirt.

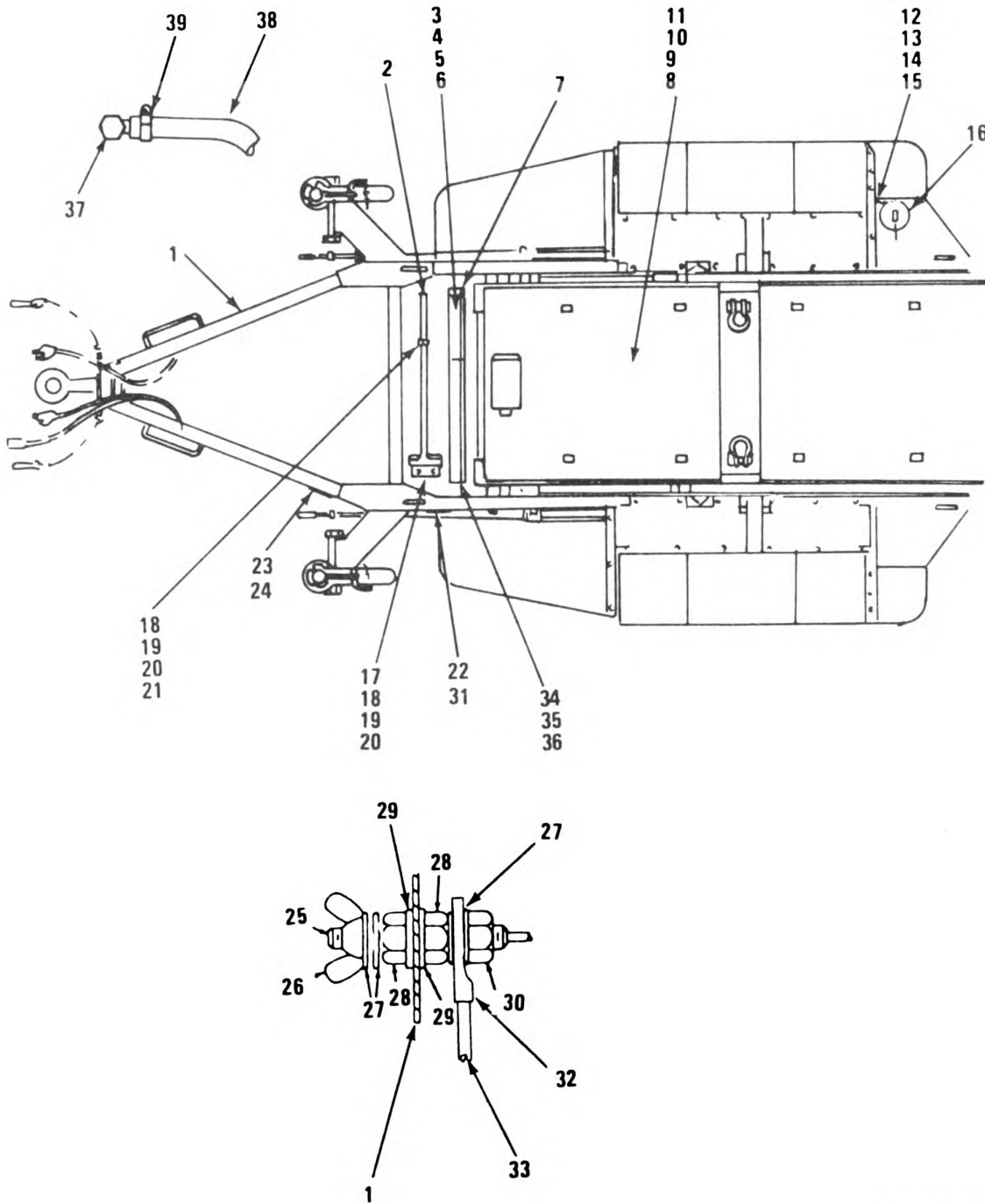
Section III. REPAIR PARTS



TS 6115-594-14&P/7-1

Figure 7-1 Generator Set, PU 495A/G

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	
7-1	1	XBFHD		97403	13220E6330	TRAILER, M353	EA	1
7-1	2	PAFFD	6115-00-133-9101		70-4013	GENERATOR SET, DED, 100KW, 50/60 HZ, MILITARY DESIGN	A EA	1
7-1	2	PAFFD	6115-00-036-6374	81349	MIL-G-52884/11	GENERATOR SET, DED, 100KW, 50/60 HZ, MILITARY DESIGN	B EA	1



TS 6115-594-14&P/7-2

Figure 7-2 Generator Set, Top View, PU 495A/G

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
7-2	1	XBFEZ		97403	13220E6330	Trailer, M353	EA	1
7-2	2	PAOZZ	5120-00-203-4656	81348	GGGH86	Hammer, Hand	EA	1
7-2	3	XBOOO	6115-00-705-4604	97403	13214E1273	Chest, Accessory	EA	1
7-2	4	PAOZZ	5306-00-225-8498	96906	MS90725-33	Bolt, Machine	EA	5
7-2	5	PAOZZ	5310-00-081-4219	96906	MS27183-12	Washer, Flat	EA	5
7-2	6	PAOZZ	5310-00-984-3806	96906	MS51922-9	Nut, Self-Locking	EA	5
7-2	7	XBOZZ		97403	13214E1329	Bracket	EA	1
7-2	8	XBFPD	6115-00-133-9101	81349	MIL-G-52884/11	Generator Set	EA	1
7-2	9	PAPFZ	5305-00-724-7222	96906	MS90728-164	Screw, Cap Hexagon	EA	12
7-2	10	PAPFZ	5310-00-269-4044	96906	MS51922-49	Nut, Self-Locking	EA	12
7-2	11	PAPFZ	5310-00-828-8803	96906	MS27183-21	Washer, Flat	EA	24
7-2	12	XBOZZ	4210-00-223-4857	96906	13214E1235	Bracket, Fire Ext	EA	1
7-2	13	PAOZZ	5305-00-269-3209	96906	MS90725-58	Screw, Cap, Hexagon	EA	4
7-2	14	PAOZZ	5310-00-080-6004	96906	MS27183-14	Washer, Flat	EA	4
7-2	15	PAOZZ	5310-00-087-4652	96906	MS51922-17	Nut, Self-Locking	EA	4
7-2	16	PAOZZ	4210-00-270-4512	02788	F5COV	Extinguisher, Fire	EA	1
7-2	17	XBOZZ	5340-00-999-6277	97403	13214E1214	Bracket, Angle	EA	1
7-2	18	PAOZZ	5305-00-068-0502	96906	MS90725-6	Screw, Cap, Hexagon	EA	3
7-2	19	PAOZZ	5310-00-809-4058	96906	MS27183-10	Washer, Flat	EA	3
7-2	20	PAOZZ	5310-00-088-1251	96906	MS51922-1	Nut, Self-Locking	EA	3
7-2	21	XBOZZ	5340-00-914-2578	97403	13214E1213-1	Clip, Spring Tension	EA	1
7-2	22	XBFEZ		97403	13054E4918	Plate, Ident	EA	1
7-2	23	PAPFZ	5305-00-175-3230	96906	MS21318-14	Screw, Drive	EA	4
7-2	24	XBFEZ		97403	13214E7604-42	Plate, Ident	EA	1
7-2	25	XBOZZ	5307-00-722-9437	97403	13214E1223	Stud	EA	1
7-2	26	PAOZZ	5310-00-543-4717	96906	MS35425-28	Nut, Plain Wing	EA	1
7-2	27	PAOZZ	5310-01-004-9129	88044	AN961-6165	Washer, Flat	EA	4
7-2	28	XBOZZ		96906	MS16203-39	Nut	EA	2
7-2	29	XBOZZ		96906	MS353 -91	Washer	EA	2
7-2	30	PAOZZ	5310-00-584-7995	96906	MS16203-27	Nut, Plain, Hexagon	EA	1
7-2	31	PBOZZ	8040-00-281-1972	76381	EC1128	Adhesive	GL	1
7-2	32	PAOZZ	5940-00-115-4992	96906	MS20659-110	Terminal Lug	EA	3
7-2	33	PAOZZ	6145-00-395-8799	81348	QQ-W-343C06B1T	Wire, Electrical	FT	2
7-2	34	PAOZZ	5975-00-878-3791	07464	3598	Rod, Ground	EA	2
7-2	35	PAOZZ	7240-00-177-6154	09647	838A7511	Spout, Can, Flexible	EA	1
7-2	36	XBOZZ	2910-00-066-1235	97403	13211E7541	Adapter Assy	EA	1
7-2	37	PAOZZ	4730-00-809-9703	96906	MS24519-9	Elbow, Pipe	EA	1
7-2	38	PAOZZ	4720-00-809-2889	03481	CS4720-0018FR	Hose, Nonmetallic	FT	3
7-2	39	PAOZZ	4730-00-908-3194	96906	MS35842-11	Clamp, Hose	EA	1

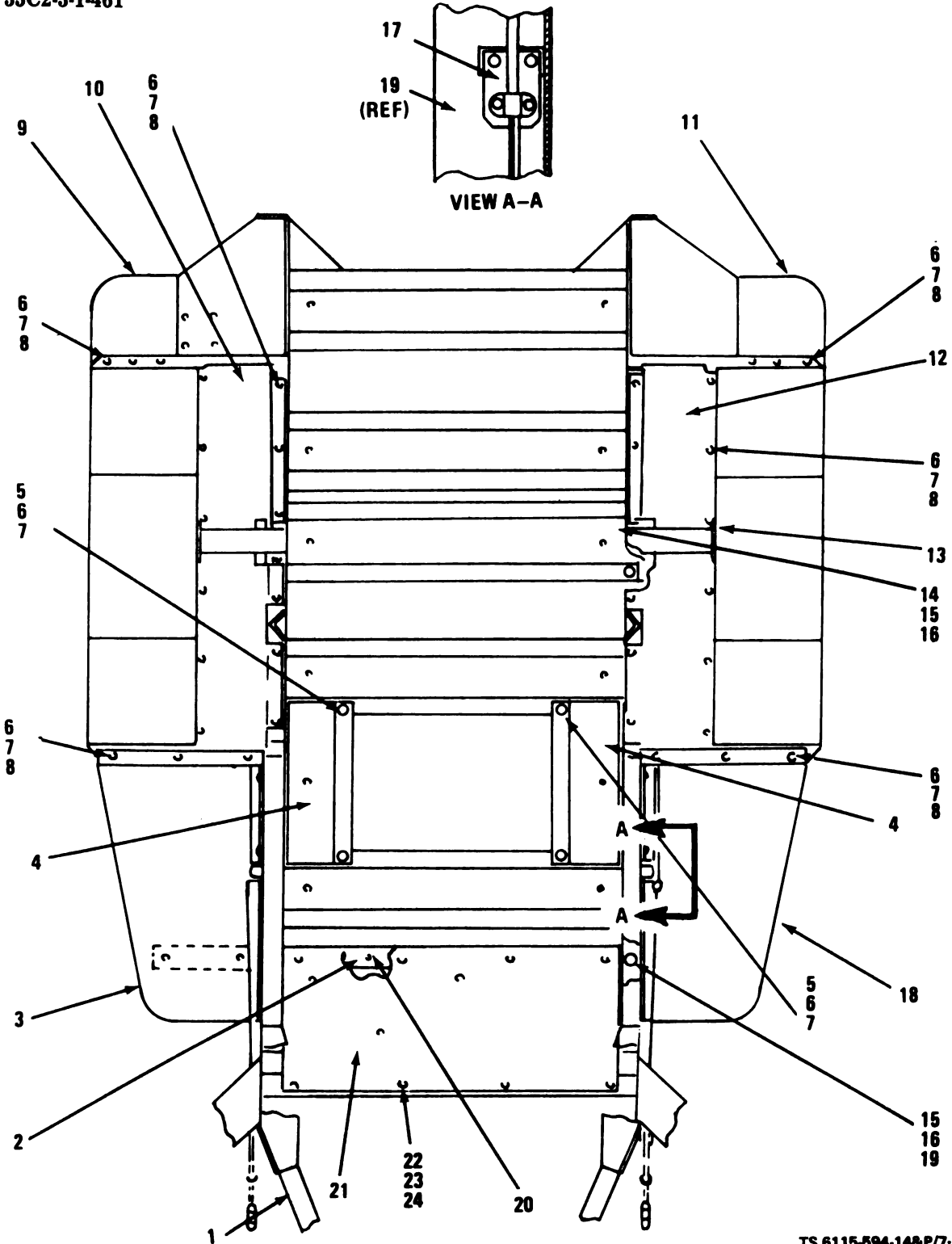


Figure 7-3 Trailer, Top View

TS 6115-594-14&P/7-3

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO.	(B) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
7-3	1	XBBHH		97403	13220E6331	Chassis	EA	1
7-3	2	XBFEZ		97403	13214E1318	Support	EA	1
7-3	3	XBFEZ		97403	13221E4790	Step, Foot Curbside	EA	1
7-3	4	XBFEZ		97403	13221E4796	Bolster	EA	2
7-3	5	PAFEE	5305-00-068-0510	96906	MS90728-60	Screw, Cap, Hexagon	EA	8
7-3	6	PAFEE	5310-00-087-4652	96906	MS51922-17	Nut, Self-Locking	EA	60
7-3	7	PAFEE	5310-00-080-6004	96906	MS27183-14	Washer, Flat	EA	120
7-3	8	PAFEE	5340-00-006-6574	96906	MS90725-60	Screw, Cap, Hexagon	EA	52
7-3	9	XBFEZ		97403	13221E4793	Step, Rear Curbside	EA	1
7-3	10	XBFEZ		97403	13221E4797	Cover Pl Roadside	EA	1
7-3	11	XBFEZ		97403	13221E4797	Step, Rear, Roadside	EA	1
7-3	12	XBFEZ		97403	13221E4798	Cover, Pl Curbside	EA	1
7-3	13	XBFEZ		97403	13221E4795	Bolster	EA	1
7-3	14	PAFEE	5305-00-915-8087	96906	MS18154-113	Screw, Cap, Hexagon	EA	4
7-3	15	PAFEE	5310-00-225-6993	96906	MS51922-33	Nut, Self-Locking	EA	6
7-3	16	PAFEE	5310-00-809-5998	96906	MS27183-18	Washer	EA	12
7-3	17	XBFEZ		96906	13221E4792	Bracket	EA	2
7-3	18	XBFEZ		97403	13221E4791	Step, Front, Roadside	EA	1
7-3	19	XDFEE		96906	MS90725-111	Screw, Cap, Hexagon	EA	2
7-3	20	XBFEZ		97403	13214E1323	Spacer	EA	1
7-3	21	XBFEZ		97403	13214E1322	Plate	EA	1
7-3	22	PAFEE	5306-00-225-8499	96906	MS90725-34	Bolt, Machine	EA	12
7-3	23	PAFEE	5310-00-984-3806	96906	MS51922-9	Nut, Self-Locking	EA	12
7-3	24	PAFEE	5310-00-081-4219	96906	MS27183-12	Washer, Flat	EA	24

CHAPTER 8

POWER PLANT AN/MJQ-10A

Section I. DESCRIPTION AND DATA

8-1. Description.

a. General. Power Plant AN/MJQ-10A, NSN 6115-00-394-9582, is made up of two PU406B/M power units. Each generator set of the PU406B/M provides 30KW, 50/60 Hz output power to the load. (Refer to Chapter 3 of this manual for a description of the PU406B/M power unit.

b. Function. The AN/MJQ-10A Power Plant is primarily for use with Worldwide Communications System.

c. List of Equipment. The following items make up the AN/MJQ-10A Power Plant:

Qty	Description
2	Power Unit PU406B/M, NSN 6115-00-349-9576
2	Cable Assembly
2	Cable Reel
1	Switchbox Assembly

d. For a list of equipment used with each PU406B/M power unit, refer to Chapter 3 of this manual.

8-2. Tabulated Data. Refer to Chapter 3, paragraph 3-2 for tabulated data of PU406B/M power unit.

8-3. Description of Major Components.

a. Vehicle and Mounting Facilities.

(1) The M200A1 Trailer described in TM 9-2330-205-14, has been modified for use with the 30KW, 50/60 Hz, Generator Set as follows:

(a) *Handbrake Levers.* The two handbrake levers have been removed from under the trailer frame and mounted on the front steps of the Fender Assembly.

(b) *Taillight and Stoplight Assembly.* Taillight assemblies have been changed to composite taillight assemblies. The right rear taillight and stoplight assembly has been removed and relocated to the right of its original location.

(c) *Fender Kit Assembly.* The fender assembly is fitted to the trailer frame and provides platform work area for personnel.

(d) *Personnel Platform.* A retractable personnel platform is mounted at the rear of the trailer frame and provides platform work area for personnel.

(e) *Rear Landing Leg Assemblies.* Two landing legs are provided, one at each side of the rear channel of the frame.

(2) *Generator Set Technical Manuals.* The following technical manuals are applicable to the generator set.

(a) Refer to TM 5-6115-465-12 and -34 for operation and maintenance instructions for the 120/208, 240/416V, 3 Phase, 4 Wire, 50/60 Hz, Liquid-Cooled, Skid Mounted DOD Generator Set, Model MEP-005A, NSN 6115-00-118-1240.

(b) Refer to TM 5-6115-465-24P for spare parts and special tools list associated with the generator set.

(3) *Switchbox Assembly.* The switchbox assembly, mounted on the fender of Unit B (figure 8-1), is connected between the two PU406B/M units by interconnecting cables. Its purpose is to facilitate switching from one generator set to the other without a loss of power or shutting down either generator set.

Section II. OPERATING INSTRUCTIONS

8-4. Inspecting and Servicing Equipment.

a. Generator Set. Perform the inspection and servicing procedures described in TM 5-6115-465-12.

b. M200A1 Trailer. Perform preliminary services procedures as described in TM 9-2330-205-14.

8-5. Installation.

a. Trailer.

(1) Locate the trailer on as level a surface as possible in order for the generator set to operate efficiently.

(2) Set brakes and block wheels securely to prevent any movement

(3) Pull leg supports down and adjust length for firm contact with ground.

WARNING

Wheels must be blocked, brakes set and leg supports down in support position before operating the equipment.

b. External Fuel Line Connections. When the generator sets are to be operated for long intervals, frequent refilling of the fuel tanks can be eliminated by obtaining fuel from an external source (such as a 55 gallon diesel fuel drum).

(1) Connect the auxiliary fuel line to the generator set auxiliary fuel supply connection located below the integral tank filler cap.

(2) Connect the auxiliary fuel line to the auxiliary fuel source.

(3) Position the fuel selector valve in the auxiliary position.

c. Ground Connections. The generator set may be grounded to an underground metallic water system, a driven metal rod or a buried metal plate. A ground rod must have a minimum diameter of $\frac{5}{8}$ inch if solid or $\frac{3}{4}$ inch if pipe, and must be driven to a minimum depth of 8 feet. Saturate hole with salt water. A ground plate must have a minimum area of 9 square feet and be buried to a minimum depth of 4 feet. The round lead must be at least No. 6 AWG copper wire. If a ground rod is used, connect the generator set to ground.

d. Switchbox and Cable Assemblies.

(1) Switchbox assembly is mounted on the fender of Unit B (Figure 8-1).

(2) Connect interconnecting cables, figure 8-1, item 3, from switchbox assembly to Unit A and switchbox assembly to Unit B.

WARNING

Do not operate the generator set until it has been connected to a suitable ground. Serious injury or death by electrocution can result from operating an ungrounded generator set.

8-6. Starting.

a. Perform the prestarting procedures described in paragraph 8-4.

b. Start the generator set as instructed in paragraph 2-10 in TM 5-6115-465-12.

8-7. Stopping. Stop the generator set as instructed in paragraph 2-11 in TM 5-6115-465-12.

8-8. Switchbox Operating Instructions.

a. Start and stop generator sets as described in the following procedures in accordance with paragraphs 8-6 and 8-7.

(1) Insure generator set circuit breakers and switchbox switches are in the "OFF" position.

(2) To operate one unit follow this procedure:

(a) Connect all necessary cables to the generator and switchbox assembly.

(b) Bring generator up to rated speed, voltage and frequency.

(c) Close generator circuit breaker.

(d) Move switchbox switch, corresponding to generator being used, to "ON" position.

(e) Switchbox output terminals should now have power.

b. To operate two units in parallel, follow this procedure:

(1) Connect all necessary cables to generator and switchbox assembly.

(2) Bring first generator into operation according to procedure outlined in paragraphs a(1) and a(2).

(3) Bring second generator up to rated speed, voltage and frequency.

(4) Open circuit breaker on second generator.

(5) Move switchbox switch, corresponding to the second generator to "ON" position.

(6) Using parallel procedures in TM5-6115-464-12, close the circuit breaker on the second generator.

c. Stop operation of the units using the following procedure:

(1) Move switchbox switches to the "OFF" position.

(2) Open circuit breakers on the generator sets.

(3) Stop generator set in accordance with paragraphs 8-7.

8-9. Maintenance Instruction for Switchbox.

a. Remove switchbox cover (Item 2, Figure 8-6).

b. Disconnect and tag leads from circuit breaker switch.

c. Remove circuit breaker switch from cabinet.

d. Use an ohmmeter and check continuity between circuit breaker terminals. Should show continuity when circuit breaker is on "ON" position. No continuity when switch is in "OFF" position. If circuit breaker switch does not conform to this test replace switch.

e. Disconnect and tag leads on indicator lights. Remove lights from cabinet. Replace defective lights.

f. Refer to Figure 8-7 and check continuity of wiring in switchbox cabinet with an ohmmeter. Replace defective wiring.

g. Install circuit breaker switch and connect leads to appropriate terminals on back of switch.

h. Install indicator lights and connect leads on terminals.

i. Replace switchbox cover.

8-10. Tiedown Instructions for Shipping Power Units by Railroad Transportation. See Appendix C.

8-11. Cleaning. The power unit or power plant shall be cleaned by wiping dirt and dust off the equipment with a clean, dry cloth. Also, use a brush on hard-to-remove caked dirt.

Section III. REPAIR PARTS

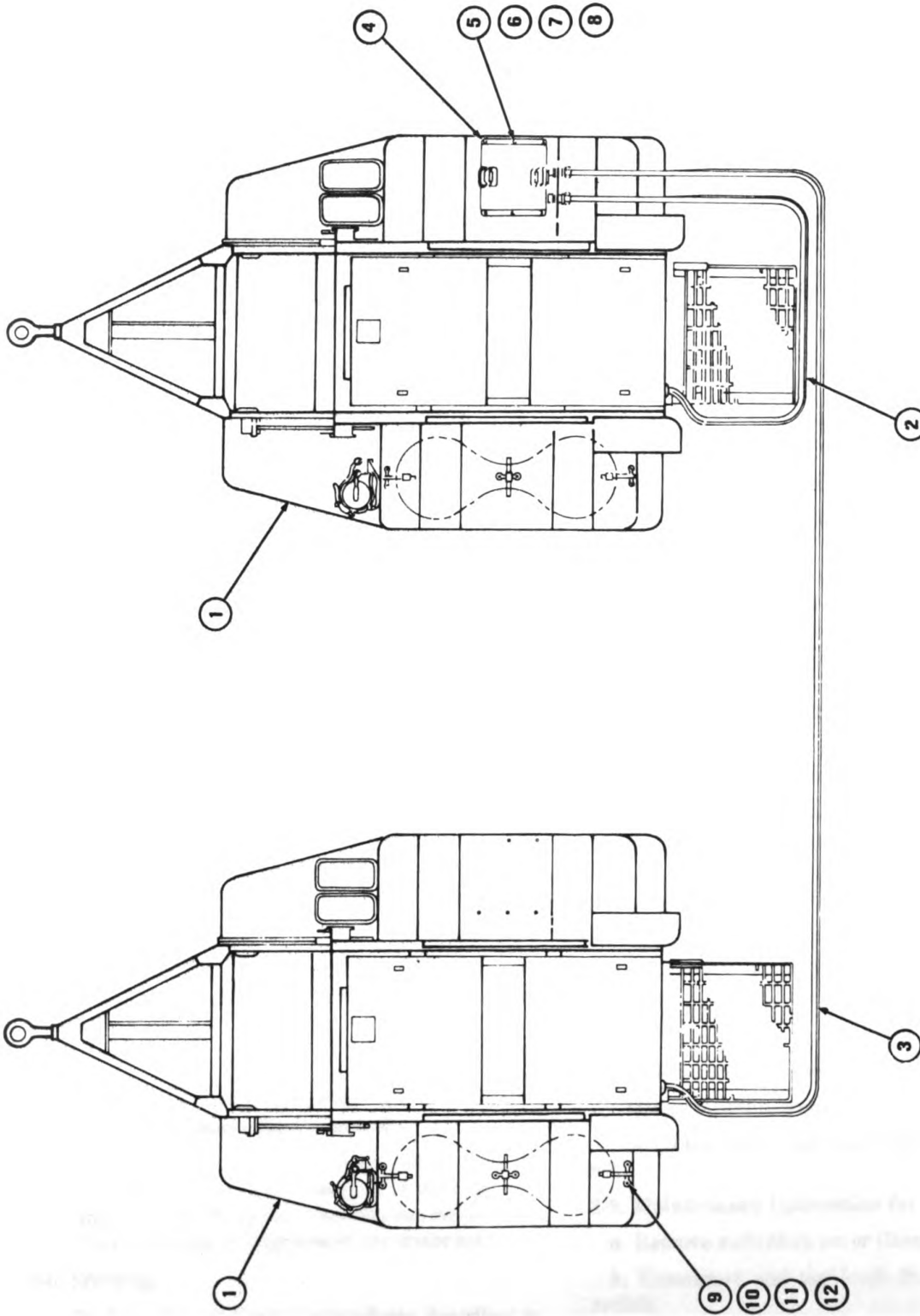
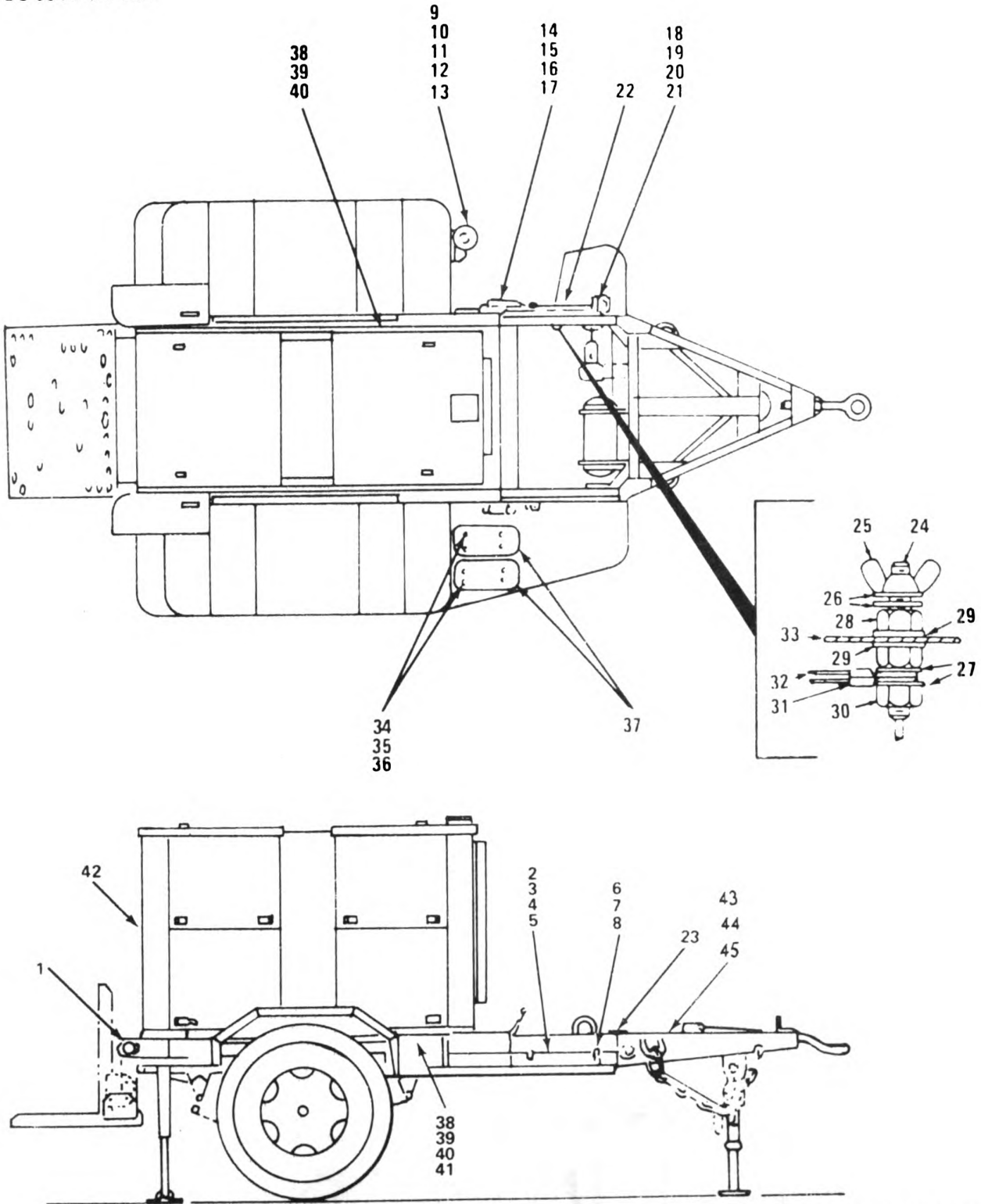


Figure 8-1 Generator Set, PU/MJQ-10A

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	
8-1	1	ADFHH	6115-00-394-9576	97403	PU4068M	POWER UNIT, ASSY DIESEL	EA	2
8-1	2	PAOZZ	6150-00-952-7006	97403	13214E1433-2	CABLE ASSEMBLY POWER	EA	1
8-1		PAOZZ	5935-01-078-6309	49367	ZZM-W-2424-3650	ADAPTER CABLE CLAMP CONNECTOR	EA	1
8-1		PAOZZ	5935-01-095-9327	97403	13214E1410-1	CONNECTOR, PLUG ELEC	EA	1
8-1	3	PAOOZ	6150-00-949-0662	97403	13214E1422-4	CABLE ASSEMBLY, POWER	EA	1
8-1		PAOZZ	5935-01-078-6309	49367	ZZM-W-2424-3650	ADAPTER, CABLE CLAMP	EA	1
8-1		PAOZZ	5935-01-095-9327	97403	13214E1410-1	CONNECTOR, PLUG ELEC	EA	1
8-1	4	PAFFF	6110-01-158-0118	97403	13220E6337	PWR TRANSFER BOX ASSY (SEE FIG 8-6 FOR BREAKDOWN)	EA	1
8-1	5	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	6
8-1	6	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK	EA	6
8-1	7	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN, HEXAGON	EA	6
8-1	8	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEX	EA	6
8-1	9	XBOZZ		97403	1321E5091	STRAP ASSEMBLY	EA	6
8-1	10	PAOZZ	5305-00-984-7342	96906	MS35191-274	SCREW, MACHINE	EA	12
8-1	11	PAOZZ	5310-00-014-5850	96906	MS27183-42	WASHER, FLAT	EA	12
8-1	12	PAOZZ	5310-00-877-5797	96906	MS21044N3	NUT, SELF-LOCKING	EA	12



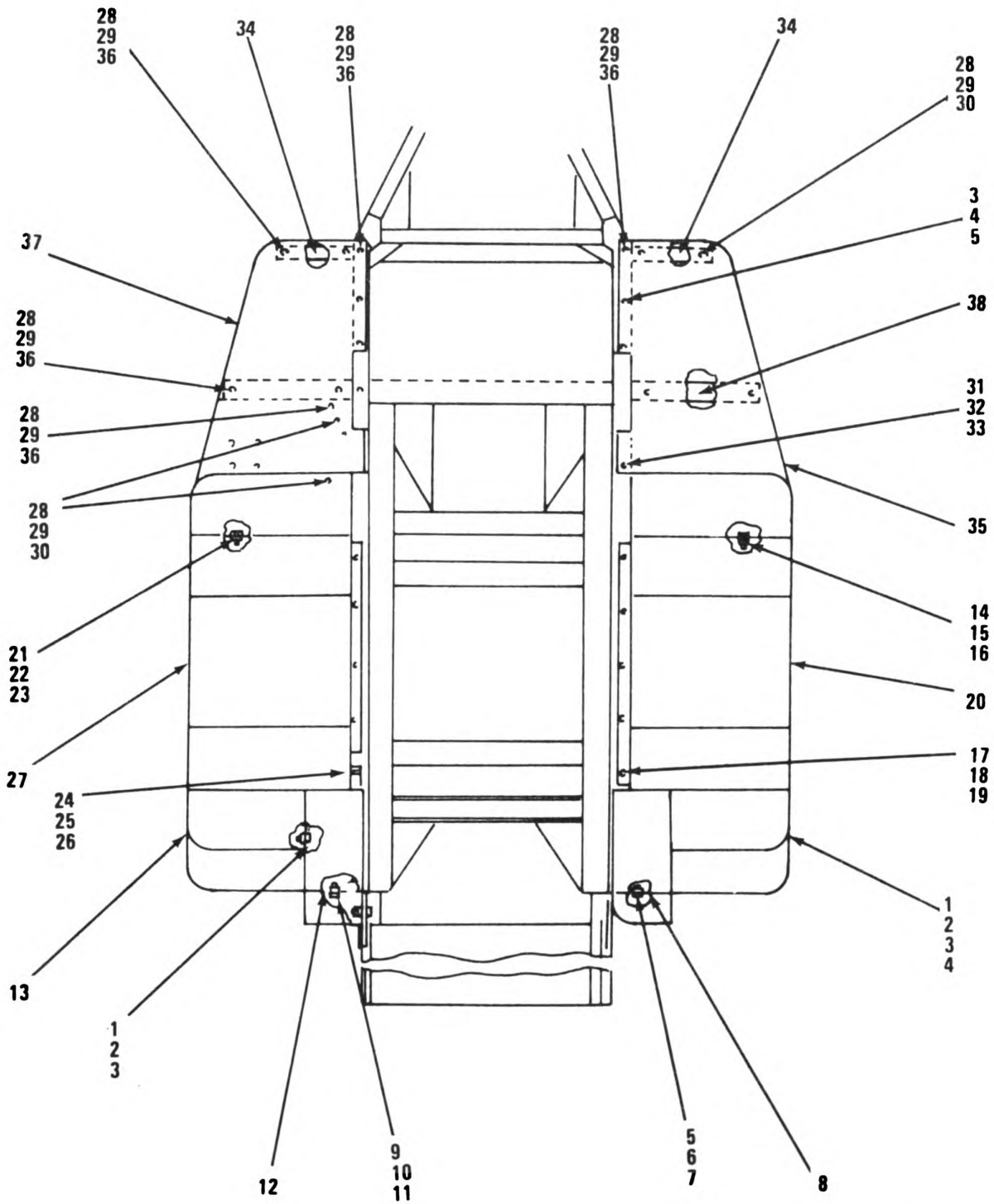
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Figure 8-2 Generator Set, Trailer Mounted, PU 406B/M

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
8-2	1	XBPFH	2330-00-604-4282	97403	13214E1257	TRAILER, M200A1	EA	1
8-2	2	PAOZE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	3
8-2	3	PAOZE	5310-00-087-7493	96906	MS27183-13	WASHER, FLAT	EA	3
8-2	4	PAOZE	5306-00-225-8498	96906	MS90725-33	BOLT, MACHINE	EA	3
8-2	5	XBOOO	2540-00-903-3503	97403	13214E1256	BOX, VEHICULAR ACCESS	EA	3
8-2	6	PAOZE	5975-00-878-3791	07464	3598	GRND ROD ASSY, SECT	EA	2
8-2	7	PAOZE	7240-00-177-6154	09647	838A7511	SPOUT, CAN FLEXIBLE	EA	1
8-2	8	PAOZE	2910-00-066-1235	97403	13211E7541	ADAPTER ASSY, FUEL	EA	1
8-2	9	PAOZE	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	12
8-2	10	PAOZE	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	20
8-2	11	PAOZE	5305-00-984-5691	96906	MS35206-311	SCREW, MACHINE	EA	4
8-2	12	PAOZE	4210-00-270-4512	02788	F5COV	EXTINGUISHER, FIRE	EA	1
8-2	13	XBOZE	4210-00-223-4857	97403	13214E1235	BRACKET, FIRE EXT	EA	1
8-2	14	PAOZE	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	1
8-2	15	PAOZE	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	1
8-2	16	PAOZE	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEX, HD	EA	1
8-2	17	XBOZE	5340-00-914-2578	97403	13214E1213-1	CLIP, SPRING TENSION	EA	1
8-2	18	PAOZE	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	2
8-2	19	PAOZE	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	2
8-2	20	PAOZE	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEX, HD	EA	2
8-2	21	XBPEE	5340-00-999-6277	97403	13214E1214	BRACKET, ANGLE	EA	1
8-2	22	PAOZE	5120-00-251-4489	81348	GGGH86	HAMMER, HAND	EA	1
8-2	23	XBOZE		97403	13216E70604-9	PLATE, IDENT	EA	1
8-2	24	XBOZE		97403	13214E1223	STUD, GROUND TRAILER	EA	1
8-2	25	PAOZE	5310-00-543-4717	96906	MS35425-28	NUT, PLAIN, WING	EA	1
8-2	26	PAOZE	5310-00-004-9129	88044	AN961-6168	WASHER, FLAT	EA	4
8-2	27	PAOZE	5310-00-187-2413	88044	AN961-616T	WASHER, FLAT	EA	4
8-2	28	PAOZE	5310-01-026-5824	96906	MS16203-39	NUT, PLAIN, HEXAGON	EA	2
8-2	29	PAOZE	5310-00-022-8847	96906	MS35333-110	WASHER, LOCK	EA	2
8-2	30	PAOZE	5310-00-584-7995	96906	MS16203-27	NUT, PLAIN, HEXAGON	EA	1
8-2	31	PAOZE	5940-00-115-4992	96906	MS20659-110	TERMINAL, LUG CRIMP	EA	1
8-2	32	PAOZE	6145-00-395-8799	81348	QQ-W-343C06BIT	WIRE, ELECTRICAL	EA	1
8-2	33	XBOZE	9905-01-085-7703	97403	13205E4918	PLATE ID GROUND	EA	1
8-2	34	PAOZE	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	8
8-2	35	PAOZE	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	8
8-2	36	PAOZE	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEX, HD	EA	8
8-2	37	XBOZE		96906	MS53052-1	BRACKET, ASSY	EA	2
8-2	38	PAFEE	5310-00-269-4040	96906	MS51922-49	NUT, SELF-LOCKING	EA	8
8-2	39	PAFEE	5310-00-823-8803	96906	MS27183-21	WASHER, FLAT	EA	8
8-2	40	PAFEE	5305-00-071-2513	96906	MS90728-16	SCREW, CAP, HEX	EA	8
8-2	41	PAFEE	5310-01-073-0572	97403	13206E4482-3	WASHER, BEVELED	EA	4

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
8-2	42	PDFHH	6115-00-118-1240	30554	MRP005A	GENERATOR SET, DED 30KW, 50/60HZ, MIL DESIGN	EA	1
8-2	43	PAOZZ	4730-00-908-3193	96906	MS35842-12	CLAMP, HOSE	EA	1
8-2	44	PAOZZ	4720-00-401-9299	96906	MS521301A206R	HOSE, NONMETALLIC	EA	1
8-2	45	PAOZZ	5325-00-290-1960	96906	MS35489-27	GROMMET, RUBBER	EA	1

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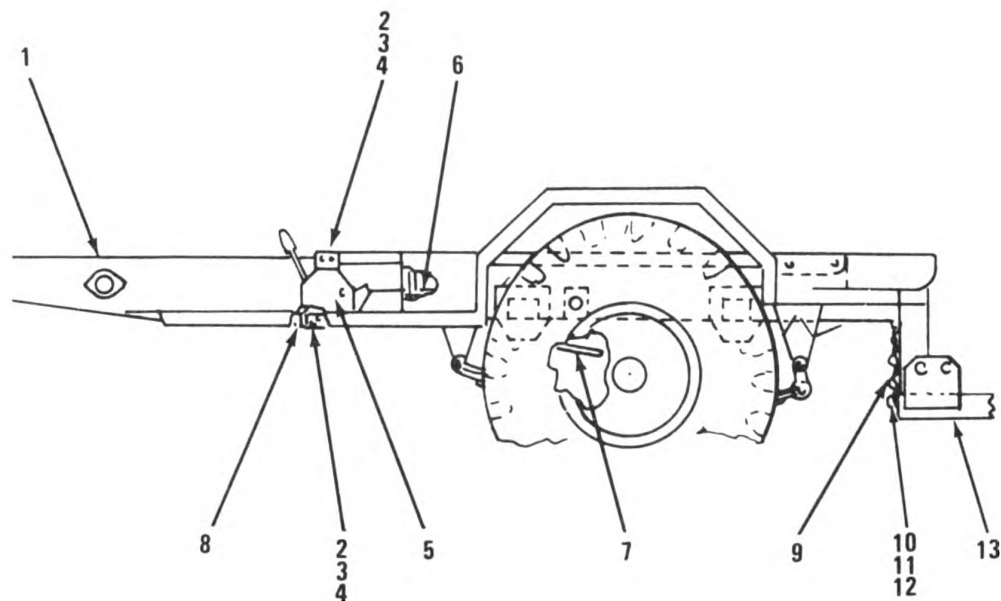


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Figure 8-3 Trailer, Top View

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNIT
8-3	1	PAPSE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	10
8-3	2	PAPSE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT	EA	20
8-3	3	PAPSE	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE	EA	10
8-3	4	XBPSE		97403	13214E1259	STEP, REAR, CURBSIDE	EA	1
8-3	5	PAPSE	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	3
8-3	6	PAPSE	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	3
8-3	7	PAPSE	5305-00-269-3213	96906	MS90725-62	SCREW, CAP	EA	3
8-3	8	XBPSE	5340-01-025-7631	97403	13214E1309-2	BRACKET, STEP, REAR	EA	1
8-3	9	PAPSE	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	3
8-3	10	PAPSE	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	3
8-3	11	PAPSE	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEX, HD	EA	3
8-3	12	XBPSE		97403	13214E1309-1	BRACKET, REAR, STEP	EA	1
8-3	13	XBPSE		97403	13214E1261	STEP, REAR, ROADSIDE	EA	1
8-3	14	PAPSE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	7
8-3	15	PAPSE	5310-00-0814219	96906	MS27183-12	WASHER, FLAT	EA	14
8-3	16	PAPSE	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE	EA	7
8-3	17	PAPSE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	5
8-3	18	PAPSE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT	EA	10
8-3	19	PAPSE	5306-00-225-8500	96906	MS90725-35	BOLT, MACHINE	EA	5
8-3	20	XBPSE		97403	13214E1263	FENDER, CURBSIDE	EA	1
8-3	21	PAPSE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	7
8-3	22	PAPSE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT	EA	14
8-3	23	PAPSE	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE	EA	7
8-3	24	PAPSE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	5
8-3	25	PAPSE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT	EA	10
8-3	26	PAPSE	5306-00-225-8500	96906	MS90725-35	BOLT, MACHINE	EA	5
8-3	27	XBPSE		97403	13214E1264	FENDER, ROADSIDE	EA	1
8-3	28	PAPSE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	2
8-3	29	PAPSE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT	EA	4
8-3	30	PAPSE	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE	EA	2
8-3	31	PAPSE	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	1
8-3	32	PAPSE	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT	EA	2
8-3	33	PAPSE	5303-00-225-9081	96906	MS90725-36	SCREW, CAP, HEX, HD	EA	1
8-3	34	XBPSE	5365-00-944-2692	97403	13214E1267-1	SPACER, PLATE	EA	2
8-3	35	XBPSE		97403	13214E1461	STEP, FRONT, CURBSIDE	EA	1
8-3	36	PAPSE	5306-00-225-8503	96906	MS90725-39	BOLT, MACHINE	EA	8
8-3	37	PBFZZ	2510-01-196-4682		13214E1462	STEP, FRONT, ROADSIDE	EA	1
8-3	38	XBPSE	5365-00-945-5998	97403	13214E1267-2	SPACER, PLATE	EA	2

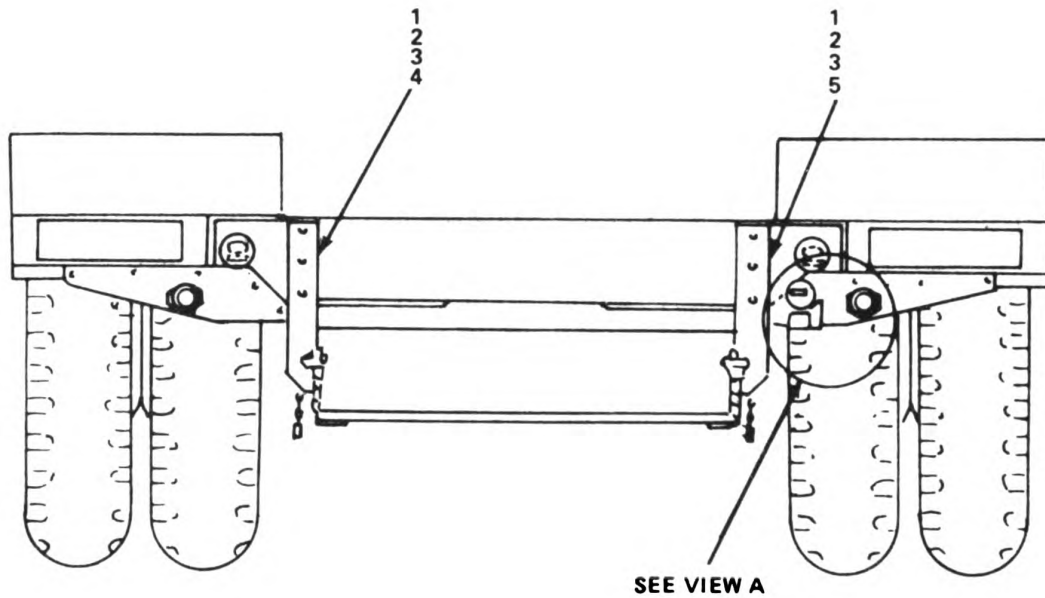
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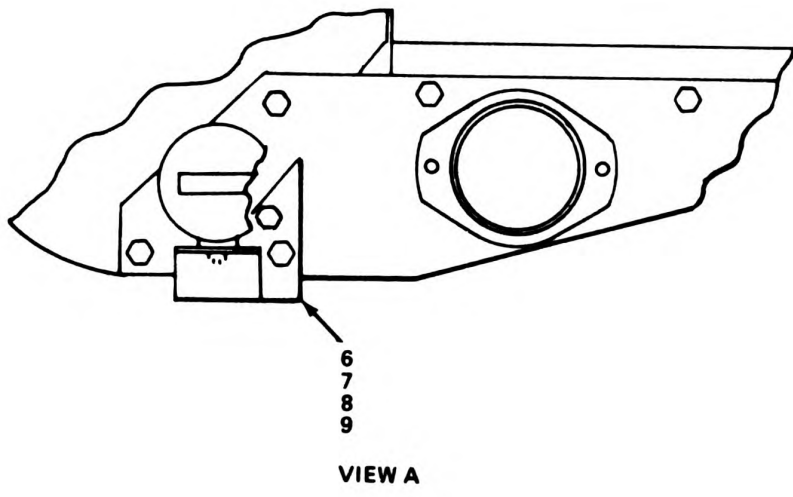
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Figure 8-4 Trailer, Side View

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	F&CM	PART NUMBER	USABLE ON CODE	U/M	
8-4	1	XBFZZ		97403	13214E1258	CHASSIS	EA	1
8-4	2	PAFZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	6
8-4	3	PAFZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT	EA	12
8-4	4	PAFZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE	EA	6
8-4	5	XBFZZ		97403	13214E1269	BRACKET, BRAKE	EA	2
8-4	6	XBFZZ		97403	13214E1270	BRACKET, BRAKE CABLE	EA	2
8-4	7	XDFZZ	5365-00-944-2691	97403	13214E1271	SPACER, PLATE	EA	2
8-4	8	XBFZZ	5365-00-989-3304	97403	13214E1272	SPACER, SLEEVE	EA	4
8-4	9	XBFZZ		97403	13214E1303	ANCHOR, PLATFORM	EA	2
8-4	10	PAFZZ	5310-00-067-6356	96906	MS51922-57	NUT, SELF-LOCKING	EA	2
8-4	11	PAFZZ	5310-00-809-8533	96906	MS27183-23	WASHER, FLAT	EA	4
8-4	12	PAFZZ	5305-00-939-9204	96906	MS90725-187	SCREW, CAP, HEX, HD	EA	2
8-4	13	XBFZZ	2510-00-926-3517	97403	13214E1298	PLATFORM, TAILGATE	EA	1
8-4	14	PAOZZ	5430-00-051-1407	96906	MS17987-C810	PIN, QUICK RELEASE	EA	12



SEE VIEW A

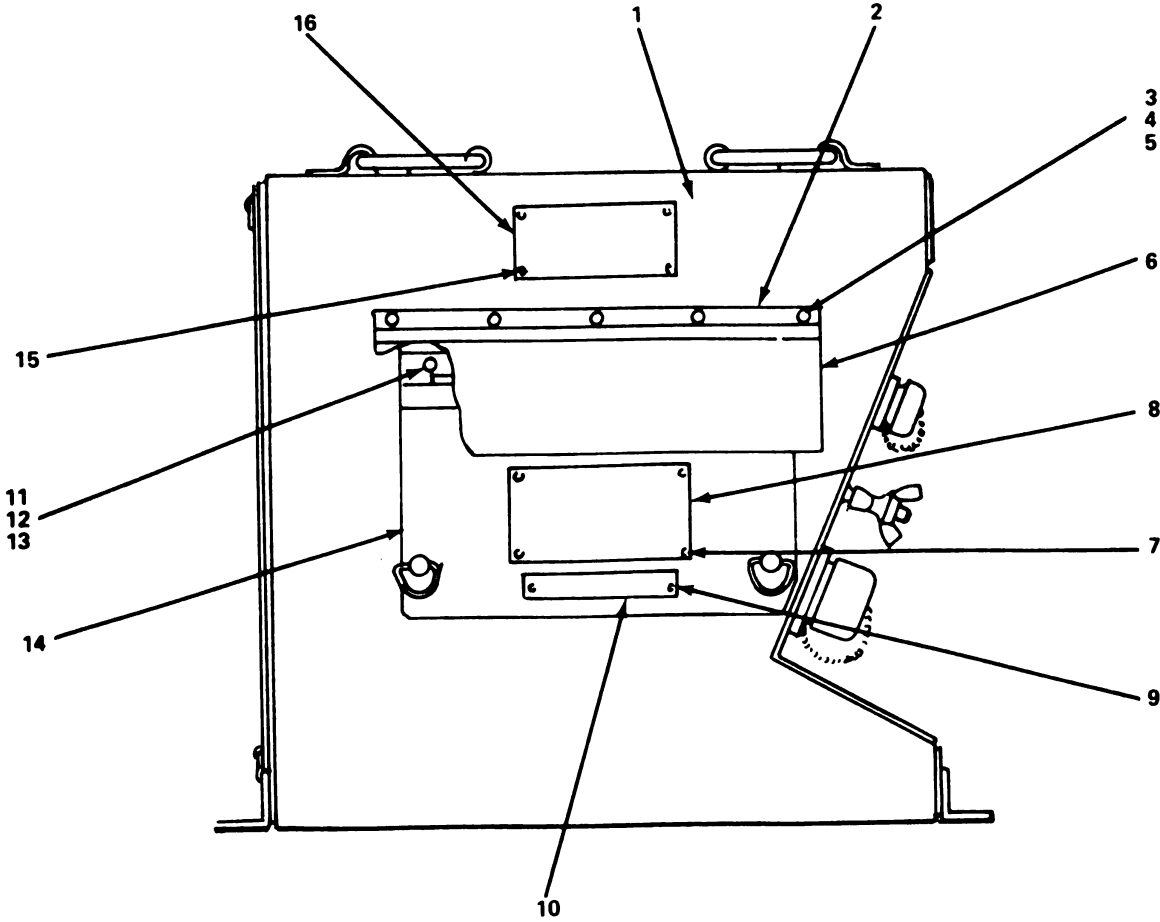


VIEW A

TS 6115-594-14&P/9-5

Figure 9-5 Trailer, Rear View

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO.	SNR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
9-5	1	PAPSS	5310-00-225-6993	96906	MS1922-33	NUT, SELF-LOCKING		EA 6
9-5	2	PAPSS	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT		EA 6
9-5	3	PAPSS	5305-00-042-6417	96906	MS90725-113	SCREW, CAP, HK HD		EA 6
9-5	4	XBPSS	5340-00-087-7676	97403	13214E1299	BRACKET, ANGLE		EA 1
9-5	5	XBPSS	5340-00-999-6441	97403	13214E1300	BRACKET, ANGLE		EA 1
9-5	6	PAPSS	5310-00-088-1251	96906	MS1922-1	NUT, SELF-LOCKING		EA 2
9-5	7	PAPSS	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT		EA 2
9-5	8	PAPSS	5305-00-225-3839	96906	MS90725-8	SCREW, CAP, HEXAGON		EA 2
9-5	9	XBPSS	2510-00-948-3253	97403	13214E1308	BRACKET		EA 1



TS 6115-594-14&P/9-6 (1)

Figure 9-6. Power Transfer Box (Sheet 1 of 5)

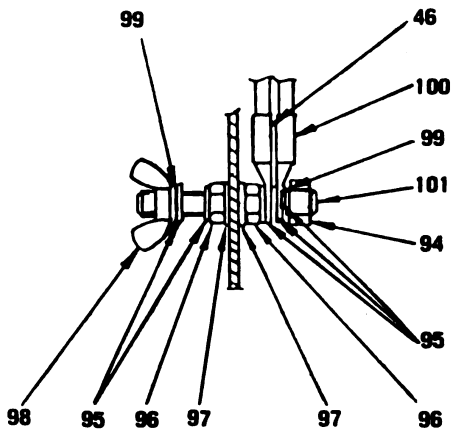
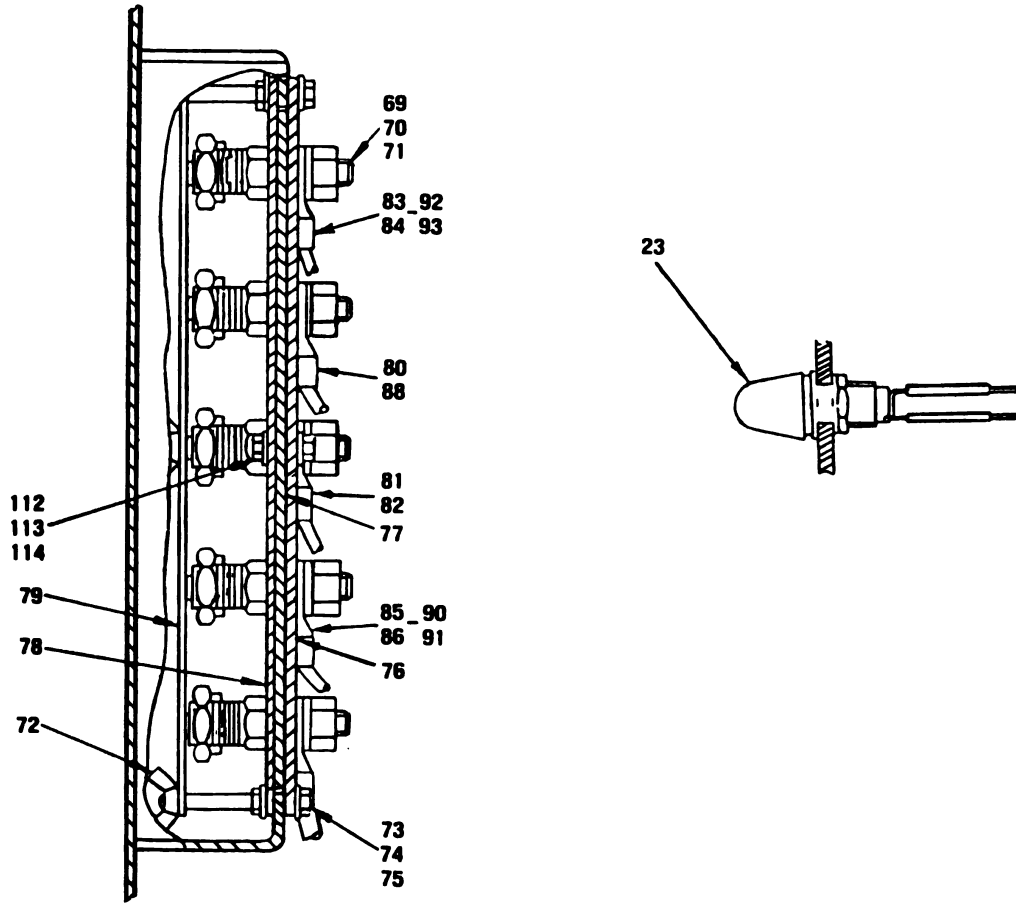


Figure 9-6. Power Transfer Box (Sheet 4 of 5)

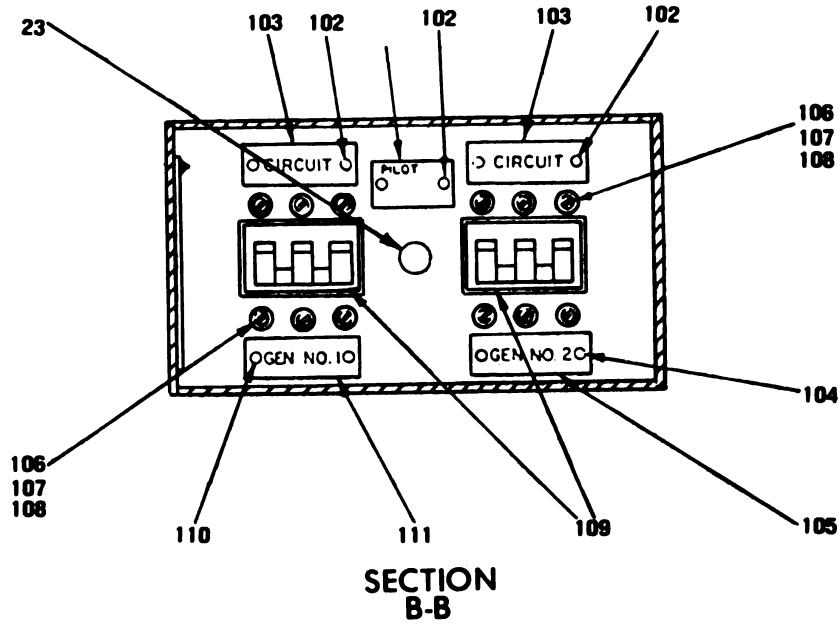
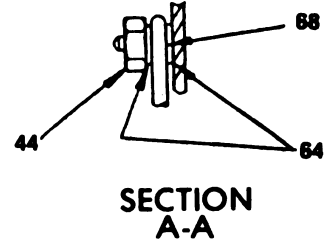
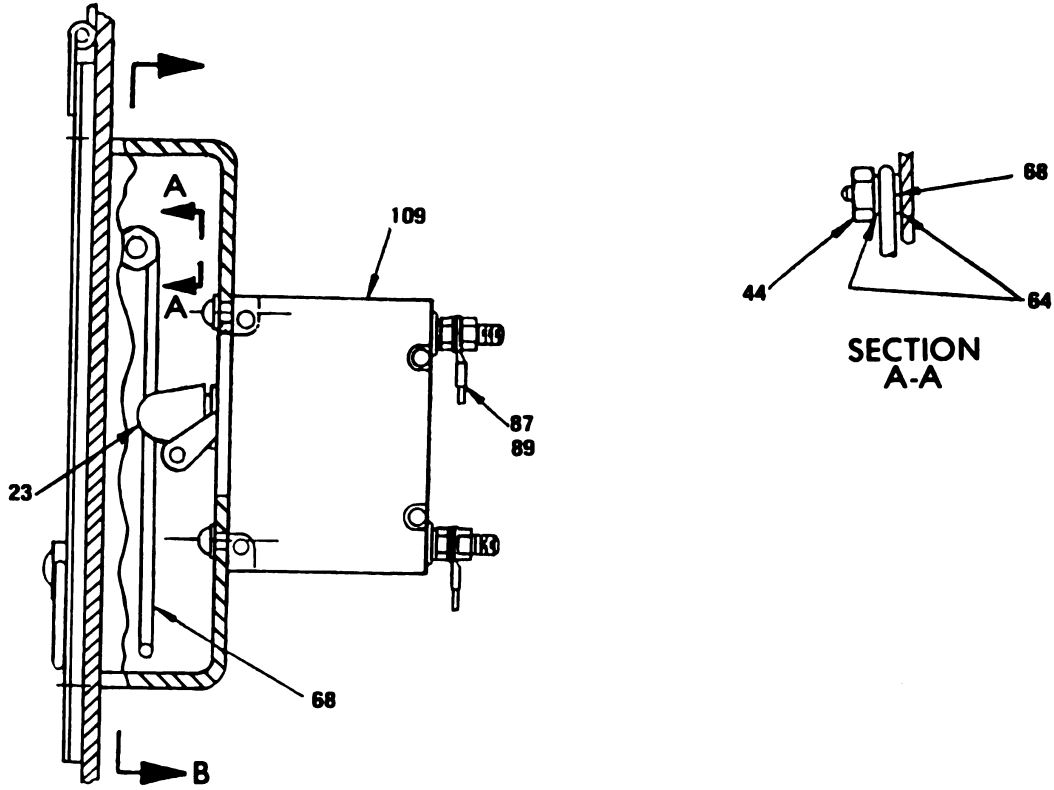


Figure 9-6. Power Transfer Box (Sheet 5 of 5)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
9-6		PAOFF	6120-01-090-2789	97403	13220E6400	POWER TRANSFER BOX ASSY	EA	1
9-6	1	XBFEZ		97403	13220E6401	BOX, POWER TRANSFER	EA	1
9-6	2	XBFEZ		97403	13220E6422	CHANNEL, RAIN	EA	1
9-6	3	PAPFEZ	5305-00-993-1848	96906	MS35207-265	SCREW, MACHINE	EA	5
9-6	4	PAPFEZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK	EA	5
9-6	5	PAPFEZ	5310-00-809-8546	96906	MS27183-8	WASHER, FLAT ROUND	EA	5
9-6	6	XBFEZ		97403	13220E6421	SHIELD, RAIN	EA	1
9-6	7	PAPFEZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	4
9-6	8	XBFEZ		97403	13216E7579	PLATE, INSTRUCTION	EA	1
9-6	9	PAPFEZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	2
9-6	10	XBFEZ		97403	13220E6430	PLATE, IDENT	EA	1
9-6	11	PAPFEZ	5305-00-993-1848	96906	MS35207-265	SCREW, MACHINE	EA	5
9-6	12	PAPFEZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK	EA	5
9-6	13	PAPFEZ	5310-00-809-8546	96906	MS27183-8	WASHER, FLAT RD	EA	5
9-6	14	XBFEZ		97403	13220E6407	DOOR, SWITCH ACCESS	EA	1
9-6		PAOFEZ	5325-01-077-3444	97403	13220E6405	STUD, TURNLOCK	EA	2
9-6		PAOFEZ	5325-00-282-7471	37695	108910-1	RECEPTACLE, TURNLOCK	EA	2
9-6	15	PAPFEZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	4
9-6	16	XBFEZ		97403	13220E6431	PLATE, IDENT	EA	1
9-6	17	PAPFEZ	5305-00-993-1848	96906	MS35207-265	SCREW, MACHINE	EA	6
9-6	18	PAPFEZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK	EA	6
9-6	19	PAPFEZ	5310-00-809-8546	96906	MS27183-8	WASHER, FLAT ROUND	EA	6
9-6	20	XBFEZ		97403	13220E6408	COVER, POWER OUTPUT	EA	1
9-6		PAOFEZ	5325-00-788-5635	94222	82-35-302-15	RECEPTACLE, TURNLOCK	EA	2
9-6	21	PAPFEZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	2
9-6	22	XBFEZ		97403	13220E6435	PLATE, DESIGNATION	EA	1
9-6	23	PAPFEZ	6210-00-900-9423	97403	13214E1391	LIGHT, INDICATOR	EA	4
9-6		PAOFEZ	6210-00-246-4888	81349	LC33RM2	LENS, LIGHT	EA	1
9-6		PAOFEZ	6240-00-892-4420	81349	M15098/11-001	LAMP, GLOW	EA	1
9-6	24	PAPFEZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	4
9-6	25	XBFEZ		97403	13220E6433	PLATE, INSTRUCTION	EA	1
9-6	26	PAPFEZ	5310-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	2
9-6	27	XBFEZ		97403	13220E6434	PLATE, IDENT	EA	1
9-6	28	PAPFEZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	2
9-6	29	XBFEZ		97403	13214E1364	PLATE, DESIGNATION	EA	1
9-6	30	PAPFEZ	5305-00-889-2999	96906	MS35206-217	SCREW, MACHINE	EA	4
9-6	31	PAPFEZ	5310-00-088-0551	96906	MS21044N04	NUT, SELF-LOCKING	EA	4
9-6	32	PAPFEZ	5935-00-801-6617	96906	MS3102R18-4P	CONNECTOR, RECEP	EA	1
9-6	33	XBOFEZ	5935-00-500-5008	96906	MS25043-18D	COVER, ELECTRICAL	EA	1
9-6	34	PAPFEZ	5330-00-079-7840	96906	MS51007-6	GASKET	EA	1

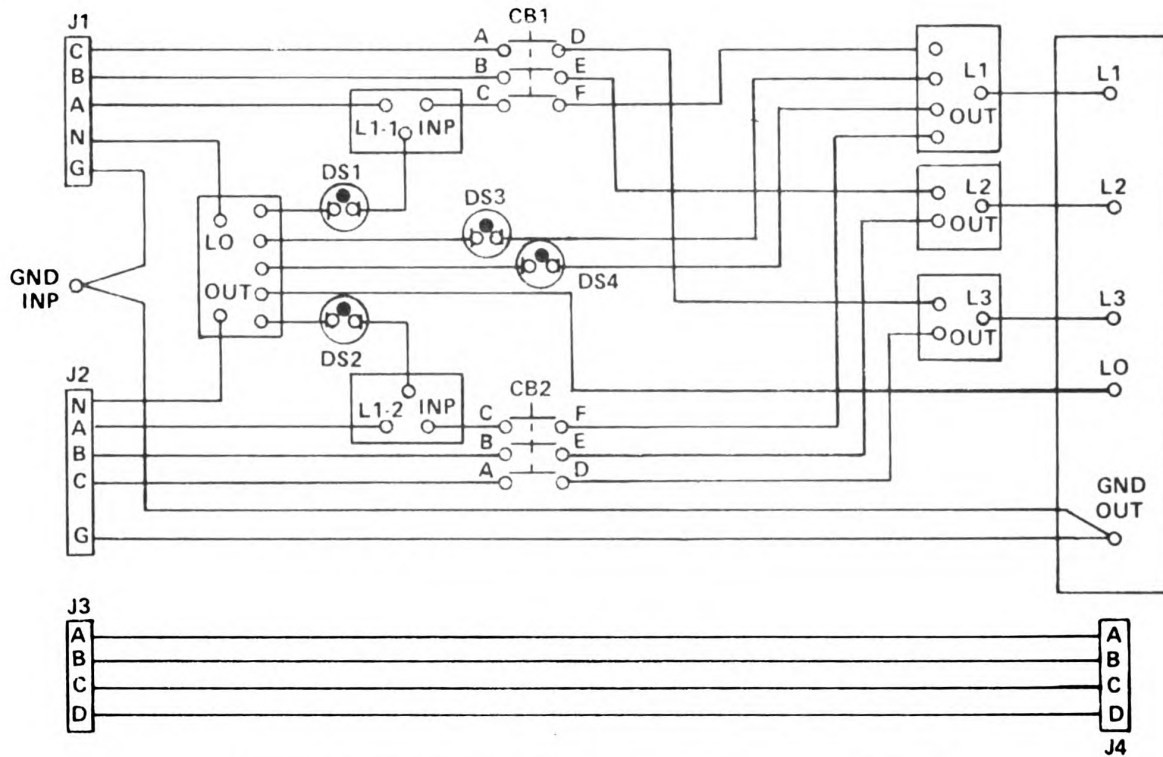
TM 6-118-894-148P
TO 3033-1-61

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
9-6	35	PAPZZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	2
9-6	36	XBPZZ		97403	13214E1360	PLATE, DESIGNATION	EA	1
9-6	37	PAPZZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	2
9-6	38	XBPZZ		97403	13214E1362	PLATE, DESIGNATION	EA	1
9-6	39	PAPZZ	5310-00-877-5797	96906	MS21044N3	NUT, SELF-LOCKING	EA	4
9-6	40	PAPZZ	5305-00-993-1848	96906	MS35207-265	SCREW, MACHINE	EA	4
9-6	41	PBFFF		97403	13220E6419-2	CABLE ASSEMBLY	EA	1
9-6		PAPZZ	6145-00-578-6595	81349	M5086/2-4-9	WIRE, ELECTRICAL	FT	V
9-6		PAPZZ	6145-00-578-6594	81349	M5086/2-6-9	WIRE, ELECTRICAL	FT	V
9-6		PAPZZ	5940-00-115-2677	96906	MS20659-144	TERMINAL, LUG	EA	3
9-6		PAPZZ	5940-00-113-8190	96906	MS25036-122	TERMINAL, LUG	EA	1
9-6	42	PAPZZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	2
9-6	43	XBPZZ		97403	13217E2005	PLATE, IDENT	EA	1
9-6	44	PAPZZ	5310-00-877-5797	96906	MS21044N3	NUT, SELF-LOCKING	EA	4
9-6	45	PAPZZ	5305-00-993-1348	96906	MS35207-265	SCREW, MACHINE	EA	4
9-6	46	PBFFF		97403	13220E6419-1	CABLE ASSEMBLY	EA	1
9-6		PAPZZ	6145-00-578-6595	81349	M5086/2-4-9	WIRE, ELECTRICAL	FT	V
9-6		PAPZZ	6145-00-578-6594	81349	M5086/2-6-9	WIRE, ELECTRICAL	FT	V
9-6		PAPZZ	5940-00-115-2677	96906	MS20659-144	TERMINAL, LUG	EA	3
9-6		PAPZZ	5940-00-113-8190	96906	MS25036-122	TERMINAL, LUG	EA	1
9-6	47	PAPZZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	2
9-6	48	XBPZZ		97403	13214E1361	PLATE, DESIGNATION	EA	1
9-6	49	PAPZZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	2
9-6	50	XBPZZ		97403	13214E1359	PLATE, DESIGNATION	EA	1
9-6	51	PAPZZ	5310-00-088-0551	96906	MS21044N04	NUT, SELF-LOCKING	EA	4
9-6	52	PAPZZ	5305-00-889-2999	96906	MS35206-217	SCREW, MACHINE	EA	4
9-6	53	MPPZZ		97403	13220E6426	HARNES ASSEMBLY	EA	1
9-6		PAPZZ	6145-00-578-7517	81349	M5086/1-16-9	WIRE, ELECTRICAL	FT	V
9-6		PAPZZ	5935-00-801-6617	96906	MS3102R18-4P	CONNECTOR, RECEP	EA	1
9-6		PAPZZ	5970-00-052-4877	81349	M23053/5-105-4	INSULATION SLEEVING	FT	V
9-6	54	XBPZZ	5935-00-500-5008	96906	MS25043-18D	COVER, ELECTRICAL	EA	1
9-6	55	PAPZZ	5330-00-079-7840	96906	MS51007-6	GASKET	EA	1
9-6	56	PAPZZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	2
9-6	57	XBPZZ		97403	13214E1363	PLATE, DESIGNATION	EA	1
9-6	58	PAPZZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	2
9-6	59	XBPZZ		97403	13218E5136	PLATE, INSTRUCTION	EA	1
9-6	60	PAPZZ	5305-00-984-6194	96906	MS35206-246	SCREW, MACHINE	EA	10
9-6	61	PAPZZ	5340-00-801-2957	96906	MS18012-5	HANDLE, BAIL	EA	2
9-6	62	PAPZZ	5305-00-993-1848	96906	MS35207-265	SCREW, MACHINE	EA	15

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	DESCRIPTION	(7)	(8)
(A) FIG NO.	(B) ITEM NO.	SNR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER		USABLE ON CODE	U/M
9-6	63	PAPSE	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK	EA	15
9-6	64	PAPSE	5310-00-809-8546	96906	MS27183-8	WASHER, FLAT ROUND	EA	15
9-6	65	XBPSE		97403	13220E6409	COVER, REAR	EA	1
9-6	66	PAPSE	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID	EA	4
9-6	67	XBPSE		97403	13220E6425	WIRING DIAGRAM	EA	1
9-6	68	PAPSE		97403	13220E6410	SUPPORT, POWER	EA	1
9-6	69	PAPSE	5310-00-009-7694	96906	MS16203-67	NUT, PLAIN HEXAGON	EA	5
9-6	70	PAPSE	5310-00-948-9708	96906	MS35335-93	WASHER, LOCK	EA	5
9-6	71	PAPSE	5940-01-163-7580	97403	13218E5066-2	TERMINAL, LOAD	EA	5
9-6	72	PAPSE	5310-00-080-8495	96906	MS35425-39	NUT, PLAIN, WING	EA	5
9-6	73	PAPSE	5310-00-997-1888	96906	MS35649-2252	NUT, PLAIN, HEXAGON	EA	5
9-6	74	PAPSE	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	10
9-6	75	PAPSE	5305-01-085-4495	97403	13220E6436	SCREW, CAP	EA	5
9-6	76	PAPSE		97403	13220E6416	PANEL, INSULATOR	EA	1
9-6	77	PAPSE		97403	13220E6417	INSULATOR	EA	1
9-6	78	PAPSE		97403	13220E6415	PANEL, INSULATOR	EA	1
9-6	79	XBPSE		97403	13220E6418	COVER, PROTECTIVE	EA	1
9-6	80	MPPSE		97403	13220E6420-3	HARNESS ASSY	EA	1
9-6		PAPSE	6145-00-578-6595	81349	MS086/2-4-9	WIRE, ELECTRICAL	FT	V
9-6		PAPSE	5940-00-113-9833	96906	MS25036-131	TERMINAL, LUG	EA	1
9-6		PAPSE	5940-00-115-2677	96906	MS20659-144	TERMINAL, LUG	EA	1
9-6	81	MPPSE	5310-01-034-2835	97403	13220E6420-5	HARNESS ASSEMBLY	EA	1
9-6		PAPSE	6145-00-578-6595	81349	MS086/2-4-9	WIRE, ELECTRICAL	FT	V
9-6		PAPSE	5940-00-113-9833	96906	MS25036-131	TERMINAL, LUG	EA	1
9-6		PAPSE	5940-00-115-2677	96906	MS20659-144	TERMINAL, LUG	EA	1
9-6	82	MPPSE	5310-00-045-5214	97403	13220E6420-6	HARNESS ASSEMBLY	EA	1
9-6		PAPSE	6145-00-578-6595	81349	MS086/2-4-9	WIRE, ELECTRICAL	FT	V
9-6		PAPSE	5940-00-113-9833	96906	MS25036-131	TERMINAL, LUG	EA	1
9-6		PAPSE	5940-00-115-2677	96906	MS20659-144	TERMINAL, LUG	EA	1
9-6	83	MPPSE		97403	13220E6420-2	HARNESS ASSEMBLY	EA	1
9-6		PAPSE	6145-00-578-6595	81349	MS086/2-4-9	WIRE, ELECTRICAL	FT	V
9-6		PAPSE	5940-00-113-9833	96906	MS25036-131	TERMINAL, LUG	EA	1
9-6		PAPSE	5940-00-115-2677	96906	MS20659-144	TERMINAL, LUG	EA	1
9-6	84	MPPSE		97403	13220E6429-1	HARNESS ASSEMBLY	EA	1
9-6		PAPSE	6145-00-578-6595	81349	MS086/2-4-9	WIRE, ELECTRICAL	FT	V
9-6		PAPSE	5940-00-113-9833	96906	MS25036-131	TERMINAL, LUG	EA	1
9-6		PAPSE	5940-00-115-2677	96906	MS20659-144	TERMINAL, LUG	EA	1
9-6	85	MPPSE		97403	13220E6423-3	LEAD, ELECTRICAL	EA	1
9-6		PAPSE	5940-00-143-4773	96906	MS25036-105	TERMINAL, LUG	EA	1
9-6	86	PAPSE		97403	13220E6423-1	LEAD, ELECTRICAL	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
9-6		PAFZZ	6145-00-578-7518	81349	M5086/1-18-9	WIRE, ELECTRICAL		FT V
9-6	87	MFPZZ		97403	13220E6423-2	LEAD, ELECTRICAL		EA 1
9-6		PAFZZ	6145-00-578-7518	81349	M5086/1-18-9	WIRE, ELECTRICAL		FT V
9-6		PAFZZ	5940-00-143-4773	96906	MS25036-105	TERMINAL, LUG		EA 1
9-6	88	MFPZZ		97403	13220E6240-4	HARNESS ASSEMBLY		EA 1
9-6		PAFZZ	6145-00-578-6595	81349	M5086/2-4-9	WIRE, ELECTRICAL		FT V
9-6		PAFZZ	5940-00-113-9833	96906	MS25036-131	TERMINAL, LUG		EA 1
9-6		PAFZZ	5940-00-115-2677	96906	MS20659-144	TERMINAL, LUG		EA 1
9-6	89	MFPZZ		97403	13220E6423-4	LEAD, ELECTRICAL		EA 1
9-6		PAFZZ	6145-00-578-7518	81349	M5086/1-18-9	WIRE, ELECTRICAL		FT V
9-6		PAFZZ	5940-00-143-4773	96906	MS25036-105	TERMINAL, LUG		EA 1
9-6	90	MFPZZ		97403	13220E6423-6	LEAD, ELECTRICAL		EA 1
9-6		PAFZZ	6145-00-578-7518	81349	M5086/1-18-9	WIRE, ELECTRICAL		FT V
9-6		PAFZZ	5940-00-143-4773	96906	MS25036-105	TERMINAL, LUG		EA 1
9-6	91	MFPZZ		97403	13220E6423-8	LEAD, ELECTRICAL		EA 1
9-6		PAFZZ	6145-00-578-7518	81349	M5086/1-18-9	WIRE, ELECTRICAL		FT V
9-6		PAFZZ	5940-00-143-4773	96906	MS25036-105	TERMINAL, LUG		EA 1
9-6	92	MFPZZ		97403	13220E6423-5	LEAD, ELECTRICAL		EA 1
9-6		PAFZZ	6145-00-578-7518	81349	M5086/1-18-9	WIRE, ELECTRICAL		FT V
9-6		PAFZZ	5940-00-143-4773	96906	MS25036-105	TERMINAL, LUG		EA 1
9-6	93	MFPZZ		97403	13220E6423-7	LEAD, ELECTRICAL		EA 1
9-6		PAFZZ	6145-00-578-7518	81349	M5086/1-18-9	WIRE, ELECTRICAL		FT V
9-6		PAFZZ	5940-00-143-4773	96906	MS25036-105	TERMINAL, LUG		EA 1
9-6	94	PAFZZ	5310-00-584-7995	96906	MS16203-27	NUT, PALIN HEXAGON		EA 1
9-6	95	PAFZZ	5310-00-187-2413	88044	AN961-616T	WASHER, FLAT		EA 5
9-6	96	PAFZZ	5310-01-026-5824	96906	MS16203-39	NUT, PLAIN HEXAGON		EA 2
9-6	97	PAFZZ	5310-00-022-8847	96906	MS35333-110	WASHER, LOCK		EA 2
9-6	98	PAFZZ	5310-00-543-4717	96906	MS35425-28	NUT, PLAIN WING		EA 1
9-6	99	PAFZZ	5310-00-184-8971	96906	MS35338-103	WASHER, LOCK		EA 2
9-6	100	MFPZZ		97403	13220E6424	WIRE, ASSEMBLY		EA 1
9-6		PAFZZ		81349	M5086/1-6-9	WIRE, ELECTRICAL		FT V
9-6		PAFZZ	5940-00-113-8190	96906	MS25036-122	TERMINAL, LUG		EA 1
9-6		PAFZZ	5940-00-115-2676	96906	MS20659-143	TERMINAL, LUG		EA 1
9-6	101	PAFZZ	5307-00-045-8172	82181	59A0358-1	STUD, CONTINUOUS		EA 1
9-6	102	PAFZZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID		EA 4
9-6	103	XBFZZ		97403	13220E6432-1	PLATE, DESIGNATION		EA 2
9-6	104	PAFZZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID		EA 2
9-6	105	XBFZZ		97403	13220E6432-3	PLATE, DESIGNATION		EA 1
9-6	106	PAFZZ	5305-00-984-4984	96906	MS35206-227	SCREW, MACHINE		EA 12
9-6	107	PAFZZ	5310-00-045-4007	96906	MS35338-41	WASHER, LOCK		EA 12
9-6	108	PAFZZ	5310-00-081-4210	96906	MS27183-6	WASHER, FLAT		EA 12
9-6	109	PAFZZ	5925-01-098-7829	97403	13220E6428	CIRCUIT BREAKER		EA 2
9-6	110	PAFZZ	5320-00-117-6815	96906	MS20470AD3-4	RIVET, SOLID		EA 2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
9-6	111	XPSS		97403	13220E6432-2	PLATE, DESIGNATION	EA	1
9-6	112	PAPSS	5310-00-997-1888	96906	MS35649-2252	NUT, PLAIN	EA	1
9-6	113	PAPSS	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	2
9-6	114	PAPSS	5305-00-068-0502	96906	MS90725-6	SCREW, CAP HEX	EA	1



COMPONENT REFERENCE LIST		
REF DES	PART NO.	NOMENCLATURE
CB1	13220E6423	CIRCUIT BREAKER
CB2	13220E6428	CIRCUIT BREAKER
DS1	13214E1391	LIGHT, INDICATOR
DS2	13214E1391	LIGHT, INDICATOR
DS3	13214E1391	LIGHT, INDICATOR
DS4	13214E1391	LIGHT, INDICATOR
J1	MS90558C32413P(Y)	CONNECTOR, RCPT
J2	MS90558C32413P(Y)	CONNECTOR, RCPT
J3	MS3102R18-4P	CONNECTOR, RCPT
J4	MS3102R18-4P	CONNECTOR, RCPT
L1-1 INP	13220E6413	TERMINAL, 2 COND
L1-2 INP	13220E6413	TERMINAL, 2 COND
L0 OUT	13220E6414	TERMINAL, 3 COND
L1 OUT	13220E6414	TERMINAL, 3 COND
L2 OUT	13220E6414	TERMINAL, 3 COND
L3 OUT	13220E6414	TERMINAL, 3 COND
L0	13218E5066-2	TERMINAL LOAD
L1	13218E5066-2	TERMINAL LOAD
L2	13218E5066-2	TERMINAL LOAD
L3	13218E5066-2	TERMINAL LOAD
GND OUT	13218E5066-2	TERMINAL LOAD
GND INP	13214E1223	STUD

TS 6115-594-14&P/8-7

Figure 9-7 Wiring Diagram, Switchbox

CHAPTER 10

POWER UNIT, PU650B/G

Section I. DESCRIPTION AND DATA

10-1. Description.

a. General. Power Unit PU650B/G, NSN 6115-00-258-1622, is made up of one 60KW, 50/60 Hz, Tactical Utility, Diesel Engine-Driven (DED) Generator Set, DOD Model MEP-006A, mounted on a modified M200A1, 2-1/2 ton trailer.

b. Function. The PU650B/G is mobile, and may be used to supply power to any system or equipment requiring up to 60KW, and 50/60 Hz input operating power.

c. The equipment listed below is used with Power Unit PU650B/G.

Qty	Description-List of Equipment	Identifying No.
2	Rod, Ground, Driven, Sectional 9 ft (2.7 m) long (store in accessory box)	MIL-R-11461
1	Adapter Assembly, Fuel Drum (stored in accessory box)	(97403) 13211E7541
1	Accessory Box	(97403) 13214E1256
1	Hammer, Hand, Engineers, 8 lb (3.6 kg) (stored in accessory box)	GGG-H-86
1	Extinguisher, Fire, Hand, 5 lb (2.3 kg)	O-E-910
1	Generator Set, DED, 60 KW, 50/60 Hz, Military Design, DOD MEP-006A, NSN 6115-00-118-1243	MIL-G-52884/8
1	Trailer, Modified, Model M200A1, 2-1/2 ton	(97403) 13214E1257
1	Hammer, Slide, 36" long, 16" wide NSN 5120-01-013-1676	(97403) 13226E7741

10-2. Tabulated Data.

a. Refer to TM 5-6115-545-12 and -34 technical manuals for additional information concerning DED Generator Set, DOD Model MEP-006A.

ENGINE

DOD Drawing Number	70-1049
Type	6 Cylinder, 4 Cycle, Turbo Charged Diesel
Brake Horsepower	(1500 rpm) - 100 (1800 rpm) - 120 (2000 rpm) - 130
Fuel Tank Capacity	55 gallons (208.2 liters)
Cooling System Capacity	33.5 quarts (31.7 liters)
Crankcase Capacity	20 quarts (18.9 liters)
Electrical System	24V, negative ground

GENERATOR

DOD Drawing Number	70-006
Type	Rotating Field Synchronous, brushless with integral exciter
KVA (Kilovolt Amperes)	75
Hertz	50/60
Volts	120/208 or 240/416 (Adjustable to 1971240 or 3951480)
Amperes	108/104
Phases	3
Power Factor	0.8

b. Generator Set Dimensions and Weight:

Length	87 inches (221.0 cm)
Width	36 inches (96.4 cm)
Height	59 inches (149.9 cm)
Weight	(dry) 4240 pounds (1923 kg)

TM 5-6115-594-14&P
TO 35C2-3-1-461

c. Trailer. The generator set is mounted on a modified M200A1, 2-1/2 ton, 2-wheel trailer. The trailer can be towed over prepared roads with loads to 6200 pounds (2812 kg) at a minimum speed of 55 mph (88.5 km/h). Over unimproved roads, trails, and open rolling terrain the load limit is 6200 pounds (2812 kg) at a maximum speed of 30 mph (48.3 km/h). It will ford hard-bottom water crossing to any depth that can be negotiated by the towing vehicle.

Towing Facilities	Lunette
Towing Vehicle	2 1/2 ton 6x6
Brakes	Air over hydraulic
Handbrakes	Mechanical, handlever controlled
Tires	Pneumatic, normal use 45 psi (3.16 kg/sq cm). In mud, snow and sand use 15 psi (1.06 kg/sq cm)
Voltage (lighting)	24 VDC
Weight	2550 pounds (1157 kg) (less Fender Assembly)

d. Generator Mounting Instructions.

(1) Technical Data Drawing Package (97403) TA 13220E4454 is applicable to power unit PU650B/G, NSN 6115-00-258-1622.

(2) Package includes detailed instructions for mounting the 60KW, 60 Hz, DOD Generator Set, NSN 6115-00-118-1243 on the M200A1 trailer including fenders on operator's platform.

10-3. Description of Major Components.

a. Vehicle and Mounting Facilities.

Section II. OPERATING INSTRUCTIONS

10-4. Inspecting and Servicing Equipment.

a. Generator Set. Perform the inspection and servicing procedures described in TM 5-6115-545-12.

b. M200A1 Trailer. Perform preliminary services procedures as described in TM 9-2330-205-14.

10-5. Installation.

a. Trailer.

(1) Locate the trailer on as level a surface as possible in order for the generator set to operate efficiently.

(2) Set brakes and block wheels securely to prevent any movement.

10-2

(1) The M200A1 Trailer described in TM 9-2330-205-14 has been modified for use with the 60KW, 50/60 Hz, Generator Set as follows:

(a) Handbrake Levers. The two handbrake levers have been removed from under the trailer frame and mounted on the front steps of the Fender Assembly.

(b) Taillight and Stoplight Assembly. Taillight assemblies have been changed to composite taillight assemblies. The right rear taillight and stoplight assembly has been removed and relocated to the right of its original location.

(c) Fender Kit Assembly. The fender assembly is fitted to the trailer frame and provides platform work area for personnel.

(d) Personnel Platform. A retractable personnel platform is mounted at the rear of the trailer frame and provides platform work area for personnel.

(e) Rear Landing Leg Assemblies. Two landing legs are provided, one at each side of the rear channel of the frame.

(2) *Generator Set Technical Manuals.* The following technical manuals are applicable to the generator set:

(a) Refer to TM 5-6115-545-12 and -34 for operation and maintenance instructions for the 120/208V, 3 Phase, 4 Wire, 50/60 Hz, Liquid-Cooled, Skid Mounted DOD Generator Set, Model MEP-006A, NSN 6115-00-118-1243.

(b) Refer to TM 5-6115-545-24P for repair parts and special tools list associated with the generator set.

(3) Pull leg supports down and adjust length for firm contact with ground.

WARNING

Wheels must be blocked, brakes set and leg supports down in support position before operating the equipment.

b. External Fuel Line Connections. When the generator sets are to be operated for long intervals, frequent refilling of the fuel tanks can be eliminated by obtaining fuel from an external source (such as a 55 gallon diesel fuel drum).

(1) Connect the auxiliary fuel line to the generator set auxiliary fuel supply connection located below the integral tank filler cap.

(2) Connect the auxiliary fuel line to the auxiliary fuel source.

(3) Position the fuel selector valve in the auxiliary position.

c. Ground Connections.

(1) Connect wire, Figure 10-2, Item 31, from ground terminal of generator Figure 10-1, Item 1, to the chassis ground terminal Figure 10-2, Item 23. There should be one continuous run from the generator to the chassis ground stud which connects to the ground rod assembly.

(2) Connect terminal lug of ground wire which is part of the ground rod Figure 10-2, Item 6, to the ground stud Figure 10-2, Item 23, for the chassis ground.

(3) The generator set may be grounded to an underground metallic water system, a driven metal rod or a buried metal plate. A ground rod must have a minimum diameter of 5/8 inch if solid or 3/4 inch if pipe, and must be driven to a minimum depth of 8 feet. Saturate hole with salt water. A ground plate must have a minimum area of 9 square feet and be buried to a minimum depth of 4

feet. The ground lead must be at least No. 6 AWG copper wire. If a ground rod is used, connect the generator set to ground.

WARNING

Do not operate the generator set until it has been connected to a suitable ground. Serious injury or death by electrocution can result from operating an ungrounded generator set.

10-6. Starting.

a. Perform the prestarting procedures described in paragraph 10-4.

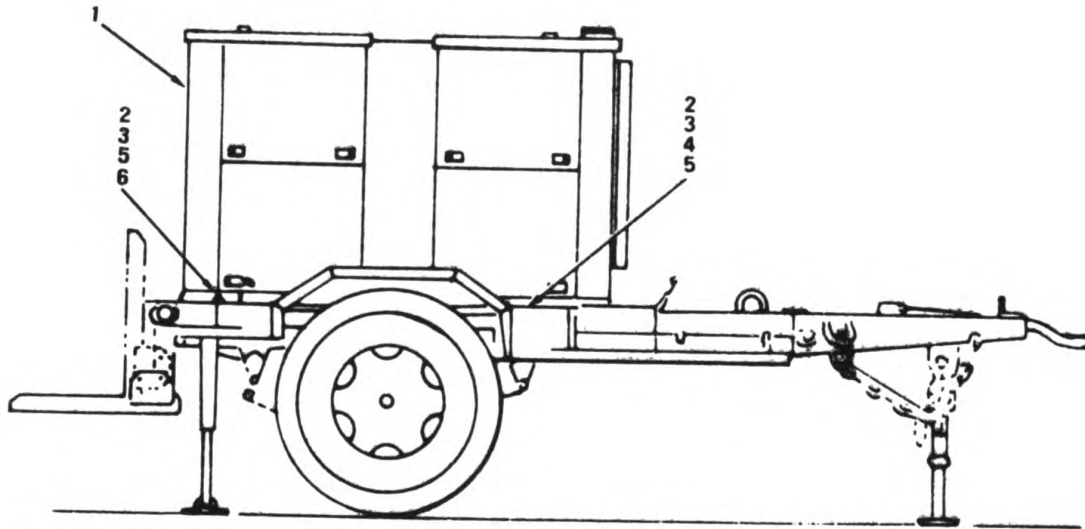
b. Start the generator set as instructed in paragraph 2-12 in TM 5-6115-545-12.

10-7. Stopping. Stop the generator set as instructed in paragraph 2-13 in TM 5-6115-545-12.

10-8. Tiedown Instructions for Shipping Power Units by Railroad Transportation. See Appendix C.

10-9. Cleaning. The power unit or power plant shall be cleaned by wiping dirt and dust off the equipment with a clean, dry cloth. Also, use a brush on hard-to-remove caked dirt.

Section III. REPAIR PARTS

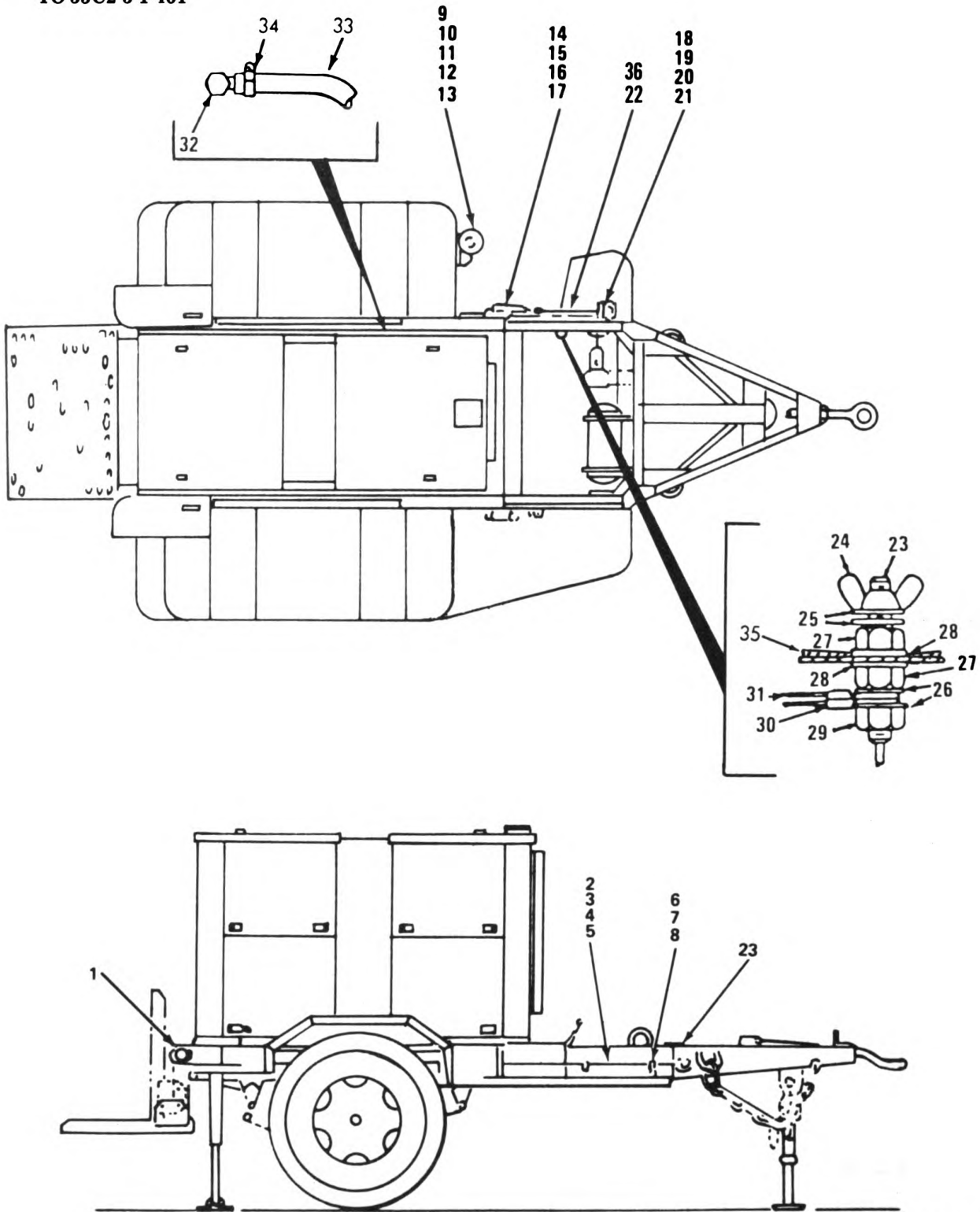


TS 6115-594-14&P/6-1

Figure 10-1 Power Unit PU 650B/G

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
10-1	1	PDPHE	6115-00-118-1243	30554	MKP-006A	GENERATOR SET, DED, 60KW/60HZ, MIL DESIGN	EA	1
10-1	2	PAPFE	5310-00-269-4040	96906	MS51922-49	NUT, SELF-LOCKING	EA	8
10-1	3	PAPFE	5310-00-823-8803	96906	MS27183-21	WASHER, FLAT	EA	8
10-1	4	PAPFE	5305-00-724-7222	96906	MS90728-128	SCREW, CAP, HEX	EA	2
10-1	5	PAPFE		97403	132064482-3	WASHER	EA	8
10-1	6	PAPFE	5305-00-724-7222	96906	MS90728-166	SCREW, CAP, HEX	EA	6

TM 5-6115-594-14&P
TO 35C2-3-1-461



TS 6115-594-14&P/6-2

Figure 10-2 Power Unit, Side and Top Views, PU 650B/G

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
10-2	1	XBPTH	2330-00-604-4282	97403	13214E1257	TRAILER CHASSIS		EA 1
10-2	2	PAOZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 5
10-2	3	PAOZZ	5310-00-087-7493	96906	MS27183-13	WASHER, FLAT		EA 5
10-2	4	PAOZZ	5306-00-225-8498	96906	MS90725-33	BOLT, MACHINE		EA 5
10-2	5	XBOOZ	2540-00-903-3503	97403	13214E1256	ACCESSORY BOX		EA 1
10-2	6	PAOZZ	5975-00-878-3791	07464	3598	ROD, GROUND		EA 2
10-2	7	PAOZZ	2910-00-066-1235	06076	13211E7541	ADAPTER, CONTAINER		EA 1
10-2	8	PAOZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING		EA 12
10-2	9	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT		EA 20
10-2	10	PAOZZ	5305-00-984-5691	96906	MS35206-311	SCREW, MACHINE		EA 4
10-2	11	PAOZZ	4210-00-270-4512	02788	F5COV	EXTINGUISHER, FIRE		EA 1
10-2	12	XBOZZ	4210-00-223-4857	97403	13214E1235	BRACKET, FIRE EXT		EA 1
10-2	13	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING		EA 1
10-2	14	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT		EA 1
10-2	15	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEX		EA 1
10-2	16	XBOZZ	5340-00-914-2578	97403	13214E1213-1	CLIP, SPRING TENSION		EA 1
10-2	17	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING		EA 2
10-2	18	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT		EA 2
10-2	19	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEX		EA 2
10-2	20	XBOZZ	5340-00-999-6277	97403	13214E1214	BRACKET, ANGLE		EA 1
10-2	21	PAOZZ	5120-00-251-4489	81348	GGGH86	HAMMER, HAND		EA 1
10-2	22	XBOZZ		97403	13216E7604-36	PLATE, IDENT		EA 1
10-2	23	XDOZZ		97403	13214E1223	STUD, CONTINUOUS		EA 1
10-2	24	PAOZZ	5310-00-543-4717	96906	MS35425-28	NUT, PLAIN WG		EA 1
10-2	25	PAOZZ	5310-01-004-9129	88044	AN961-616S	WASHER, FLAT		EA 4
10-2	26	PAOZZ	5310-00-187-2413	88044	AN961-616	WASHER, FLAT		EA 4
10-2	27	PAOZZ	5310-01-026-5824	96906	MS16203-39	NUT, PLAIN HEX		EA 2
10-2	28	PAOZZ	5310-00-022-8847	96906	MS35333-110	WASHER, LOCK		EA 2
10-2	29	PAOZZ	5310-00-584-7995	96906	MS16203-27	NUT, PLAIN HEX		EA 1
10-2	30	PAOZZ	5940-00-115-4992	96906	MS20659-110	TERMINAL LUG		EA 2
10-2	31	PAOZZ	6145-00-395-8799	81398	QQ-W-343C06B1T	WIRE, ELECTRICAL		FT 6
10-2	32	PAOZZ	4730-00-809-9703	96906	MS24519-9	ELBOW, PIPE		EA 1
10-2	33	PAOZZ	4720-00-809-2889	03481	CS4720-0018FR	HOSE, NONMETALLIC		EA 1
10-2	34	PAOZZ	4730-00-908-3194	96906	MS35842-11	CLAMP, HOSE		EA 1
10-2	35	XBOZZ	9905-01-085-7703	97403	13205E4918	PLATE ID GROUND		EA 1
10-2	36	PAOZZ	5305-00-253-5615	96906	MS21318-21	SCREW, DRIVE		EA 4

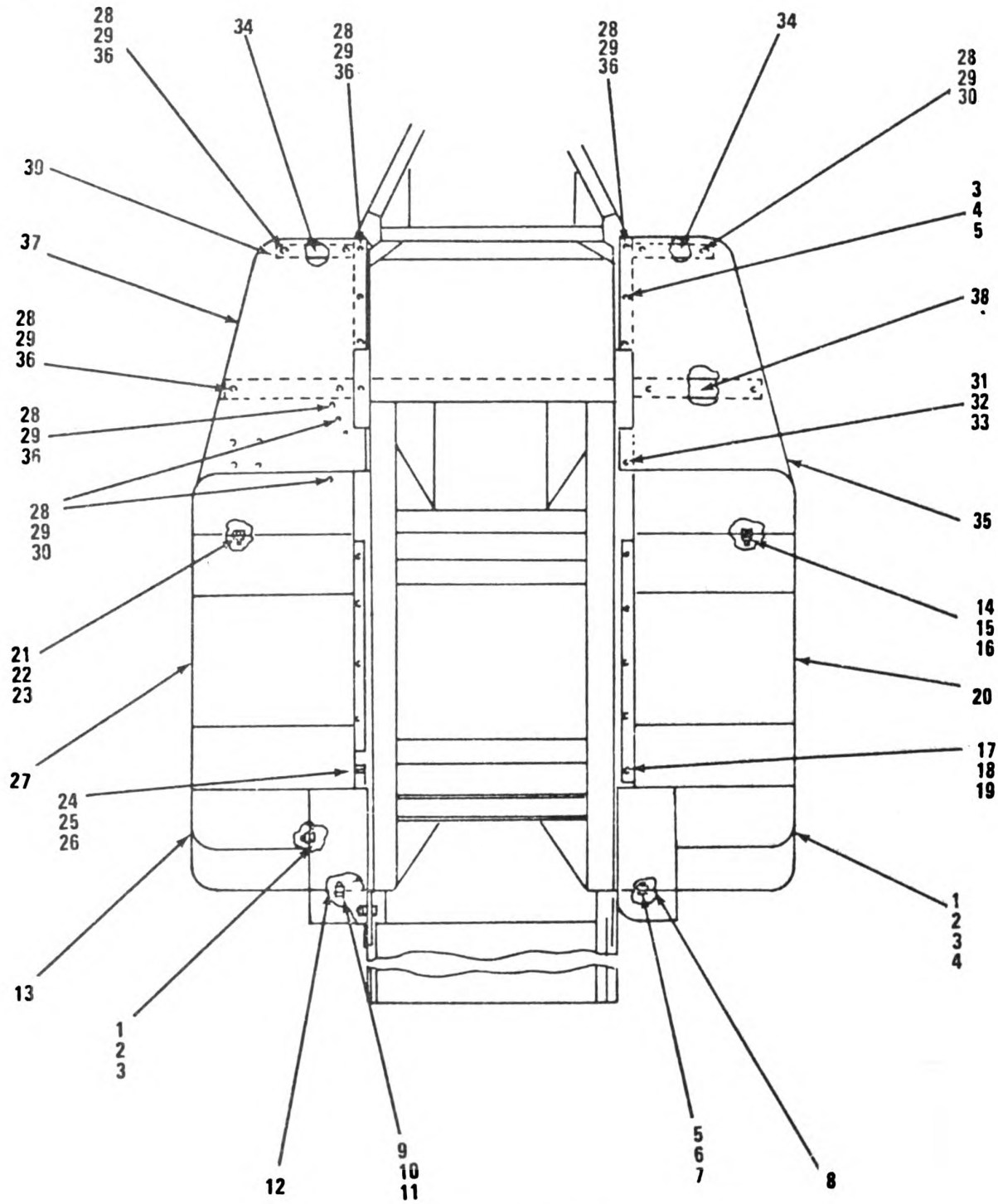


Figure 10-3 Trailer, Top View

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
10-3	1	PAPZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 10
10-3	2	PAPZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 20
10-3	3	PAPZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE		EA 10
10-3	4	XBPZZ		97403	13214E1259	STEP, REAR		EA 1
10-3	5	PAPZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING		EA 3
10-3	6	PAPZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT		EA 3
10-3	7	PAPZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP		EA 3
10-3	8	XBPZZ		97403	13214E1309-1	BRACKET		EA 1
10-3	9	PAPZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING		EA 3
10-3	10	PAPZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT		EA 3
10-3	11	PAPZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEX		EA 3
10-3	12	XBPZZ		97403	13214E1309-1	BRACKET, REAR		EA 1
10-3	13	XBPZZ		97403	13214E1261	STEP, REAR		EA 1
10-3	14	PAPZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 7
10-3	15	PAPZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 14
10-3	16	PAPZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE		EA 7
10-3	17	PAPZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 5
10-3	18	PAPZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 10
10-3	19	PAPZZ	5306-00-225-8500	96906	MS90725-35	BOLT, MACHINE		EA 5
10-3	20	XBPZZ		97403	13214E1263	FENDER, CURBSIDE		EA 1
10-3	21	PAPZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 7
10-3	22	PAPZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 14
10-3	23	PAPZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE		EA 7
10-3	24	PAPZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 10
10-3	25	PAPZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 10
10-3	26	PAPZZ	5306-00-225-8500	96906	MS90725-35	BOLT, MACHINE		EA 5
10-3	27	XBPZZ		97403	13214E1264	FENDER, ROADSIDE		EA 1
10-3	28	PAPZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 1
10-3	29	PAPZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 4
10-3	30	PAPZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE		EA 2
10-3	31	PAPZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 1
10-3	32	PAPZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 2

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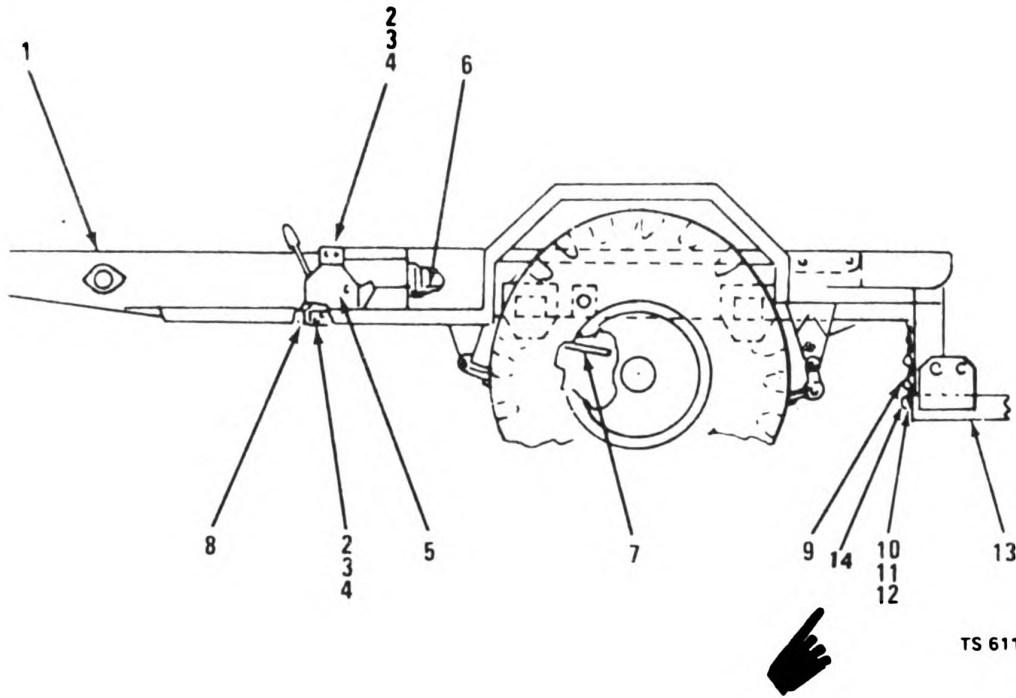
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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY REQ IN UNIT
10-3	33	PAPZZ	5305-00-225-9081	96906	M890725-36	SCREW, CAP, HEX HD	EA	1
10-3	34	XBPZZ	5365-00-944-2692	97403	13214E1267-1	SPACER, PLATE	EA	2
10-3	35	XBPZZ		97403	13214E1461	STEP, FRONT	EA	1
10-3	36	PAPZZ	5306-00-225-8503	96906	M890725-39	BOLT, MACHINE	EA	8
10-3	37	PBFZZ	2510-01-196-4682	97403	13214E1462	STEP, FRONT	EA	1
10-3	38	XBPZZ	5365-00-945-5998	97403	13214E1267-2	SPACER, PLATE	EA	2

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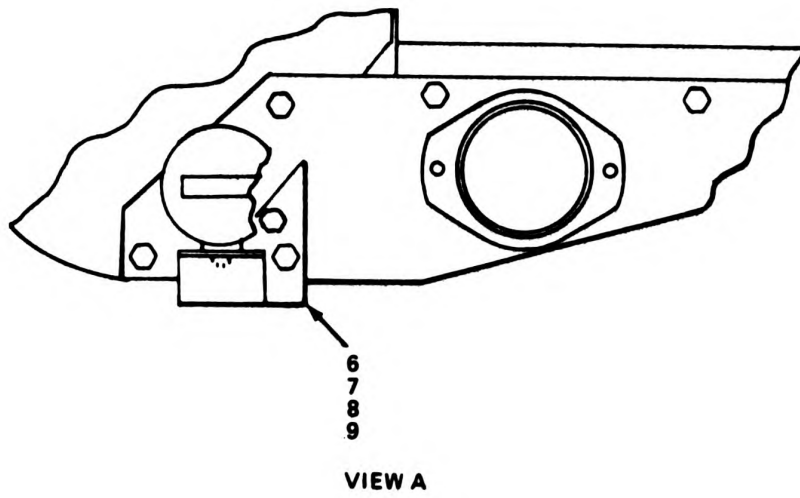
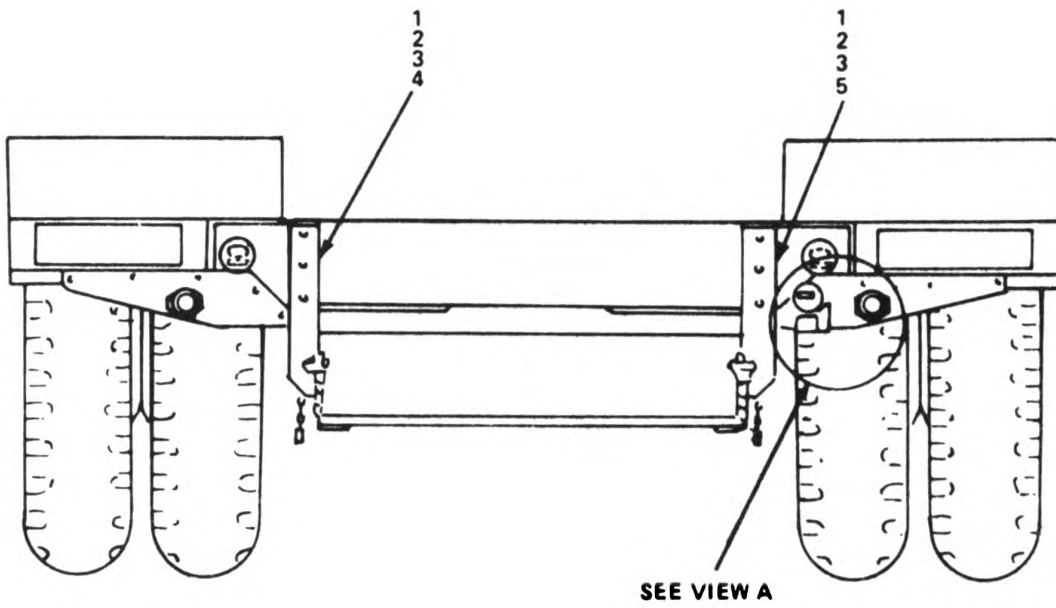


TS 6115-594-14&P/24

Figure 10-4 Trailer, Side View

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	F8CM	PART NUMBER	USABLE ON CODE	U/M	
10-4	1	XBFZZ		97403	13214E1258	CHASSIS	EA	1
10-4	2	PAFZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	6
10-4	3	PAFZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT	EA	12
10-4	4	PAFZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE	EA	6
10-4	5	XBFZZ		97403	13214E1269	BRACKET, BRAKE	EA	2
10-4	6	XDFZZ		97403	13214E1270	BRACKET, ANGLE	EA	2
10-4	7	XDFZZ	5365-00-944-2891	97403	13214E1271	SPACER, PLATE	EA	2
10-4	8	XBFZZ	5365-00-989-3304	97403	13214E1272	SPACER, SLEEVE	EA	2
10-4	9	XBFZZ		97403	13214E1303	ANCHOR, PLATFORM	EA	2
10-4	10	PAFZZ	5310-00-067-6366	96906	MS51922-57	NUT, SELF-LOCKING	EA	2
10-4	11	PAFZZ	5310-00-808-8533	96906	MS27183-23	WASHER, FLAT	EA	4
10-4	12	PAFZZ	5305-00-939-9204	96906	MS90725-187	SCREW, CAP	EA	2
10-4	13	XBFZZ	2510-00-926-3517	97403	13214E1298	PLATFORM, TAILGATE	EA	1
10-4	14	PAQZZ	5340-00-051-1407	96906	MS17987-C810	PIN, QUICK RELEASE	EA	12

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Figure 10-5 Trailer, Rear View

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO.	SNR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
10-5	1	PAPSE	5310-00-225-6993	96906	MS51922-33	NUT, SELF-LOCKING		EA 6
10-5	2	PAPSE	5310-00-809-5998	96906	MS21783-18	WASHER, FLAT		EA 6
10-5	3	PAPSE	5305-00-042-6417	96906	MS90725-113	SCREW, CAP, HEX HD		EA 6
10-5	4	XBFEZ	5340-00-087-7676	97403	13214E1299	BRACKET, ANGLE		EA 1
10-5		PAOSE	6145-00-578-6594	81349	MS086/2-6-9	WIRE, ELECTRICAL		FT 5
10-5		PAOSE	5940-00-115-4992	96906	MS20659-110	TERMINAL, LUG		EA 1
10-5	5	XBFEZ	5340-00-999-6441	97403	13214E1300	BRACKET, ANGLE		EA 1
10-5	6	PAPSE	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING		EA 2
10-5	7	PAPSE	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT		EA 2
10-5	8	PAPSE	5305-00-225-3839	96906	MS90725-8	SCREW, CAP, HEX HD		EA 2
10-5	9	XBFEZ	2510-00-948-3253	97403	13214E1308	BRACKET		EA 1

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CHAPTER 11

POWER PLANT, AN/MJQ-12A

Section I. DESCRIPTION AND DATA

11-1. Description.

a. General. Power Plant AN/MJQ-12A, NSN 6115-00-257-1602, is made up of two PU650B/G, power units. Each generator set of the PU650B/G provides 60KW, 50/60 Hz tactical utility power output to the load. (Refer to Chapter 10 of this manual for description of the PU650B/G Power Unit.)

b. Function. The AN/MJQ-12A Power Plant is used to supply power to any system or equipment requiring up to 60KW, and 50/60 Hz input operating power.

c. List of Equipment. The following items make up the AN/MJQ-12A Power Plant.

Qty	Description
1	Switchbox Assembly (97403) 13221E7360
2	Cable Assembly (97403) 13218E5110
2	Power Unit PU650B/G, NSN 6115-00-258-1622

d. For a list of equipment used with each PU650B/G power unit, refer to Chapter 10 of this manual.

11-2. Tabulated Data. Refer to Chapter 10, paragraph 10-2 for tabulated data of PU650B/G Power Unit.

11-3. Description of Major Components.

a. Vehicle and Mounting Facilities.

(1) The M200A1 Trailer described in TM 9-2330-205-14 has been modified for use with the 60KW, 50/60 Hz, Generator Set as follows:

(a) **Handbrake Levers.** The two handbrake levers have been removed from under the trailer

frame and mounted on the front steps of the Fender Assembly.

(b) **Taillight and Stoplight Assembly.** Taillight assemblies have been changed to composite taillight assemblies. The right rear taillight and stoplight assembly has been removed and relocated to the right of its original location.

(c) **Fender Kit Assembly.** The Fender Assembly is fitted to the trailer frame and provides platform work area for personnel.

(d) **Personnel Platform.** A retractable personnel platform is mounted at the rear of the trailer frame and provides platform work area for personnel.

(e) **Rear Landing Leg Assemblies.** Two landing legs are provided, one at each side of the rear channel of the frame.

(2) **Generator Set Technical Manuals.** The following technical manuals are applicable to the generator set.

(a) Refer to TM 5-6115-545-12 and -34 for operation and maintenance instructions for the 120/208, 240/416V, 3 Phase, 4 Wire, 50/60 Hz, Liquid-Cooled, Skid Mounted DOD Generator Set, Model MEP-006A, NSN 6115-00-118-1243.

(b) Refer to TM 5-6115-545-24P for repair parts and special tools list associated with generator set.

(3) **Switchbox Assembly.** The Switchbox Assembly is connected between the two PU650B/G units by interconnecting cables. Its purpose is to facilitate switching from one generator to the other without a loss of power or shutting down either generator set.

Section II. OPERATING INSTRUCTIONS

11-4. Inspecting and Servicing Equipment.

a. Generator Set. Perform the inspection and servicing procedures described in TM 5-6115-545-12.

b. M200A1 Trailer. Perform preliminary services procedures as described in TM 9-2330-205-14.

11-5. Installation.

(1) Locate the trailer on as level a surface as possible in order for the generator set to operate efficiently.

(2) Set brakes and block wheels securely to prevent any movement.

(3) Pull leg supports down and adjust length for firm contact with ground.

WARNING

Wheels must be blocked, brakes set and leg supports down in support position before operating the equipment.

b. External Fuel Line Connections. When the generator sets are to be operated for long intervals, frequent refilling of the fuel tanks can be eliminated by obtaining fuel from an external source (such as a 55 gallon diesel fuel drum).

(1) Connect the auxiliary fuel line to the generator set auxiliary fuel supply connection located below the integral tank filler cap.

(2) Connect the auxiliary fuel line to the auxiliary fuel source.

(3) Position the fuel selector valve in the auxiliary position.

c. Ground Connections. The generator set may be grounded to an underground metallic water system, a driven metal rod or a buried metal plate. A ground rod must have a minimum diameter of 5/8 inch if solid or 3/4 inch if pipe, and must be driven to a minimum depth of 8 feet. Saturate hole with salt water. A ground plate must have a minimum area of 9 square feet and be buried to a minimum depth of 4 feet. The ground lead must be at least No. 6 AWG copper wire. If a ground rod is used, connect the generator set to ground.

WARNING

Do not operate the generator set until it has been connected to a suitable ground. Serious injury or death by electrocution can result from operating an ungrounded generator set.

d. Switchbox Assembly.

(1) Remove switchbox assembly from fender of PU650B/G and place on ground halfway between the two units.

11-2 Change 1

(2) Connect interconnecting cables, figure 11 item 1, between Unit A and Unit B.

11-6. Starting.

a. Perform the prestarting procedures described in paragraph 11-4.

b. Start the generator set as instructed in paragraph 2-12 in TM5-6115-545-12.

11-7. **Stopping.** Stop the generator set as instructed in paragraph 2-13 in TM5-6115-545-12.

11-8. Switchbox Operating Instructions.

a. Start and stop generator sets as directed in the following procedures in accordance with paragraph 11-6 and 11-7.

(1) Ensure generator circuit breakers and switchboxes are in the "OFF" position.

(2) To operate one unit follow this procedure:

(a) Connect all necessary cables to the generator and switchbox assembly.

(b) Bring generator up to rated speed, voltage and frequency.

(c) Close generator circuit breaker.

(d) Move switchbox switch, corresponding to generator being used, to "ON" position.

(e) Switchbox output terminals should now have power.

b. To operate two units in parallel, follow this procedure:

(1) Connect all necessary cables to generators and switchbox assembly.

(2) Bring first generator into operation according to procedure outlined in paragraphs a(1) and a(2).

(3) Bring second generator up to rated speed, voltage and frequency.

(4) Open circuit breaker on second generator.

(5) Move switchbox corresponding to the second generator to "ON" position.

(6) Using parallel procedures in TM 6115-464-12, close the circuit breaker on the second generator.

c. Stop operation of the units using the followig procedures:

(1) Move switchbox switches to the "OFF" position.

(2) Open circuit breakers on the generator sets.

(3) Stop generator set in accordance with paragraph 11-7.

11-9. Transportation of Power Units.

a. After removal, ground wires from the switchbox to the power units should be stowed in each power unit accessory box.

b. The switchbox should be mounted on the curbside fender of one of the power units.

NOTE

While in operation, the mounting hardware for the switchbox should be stowed in the power unit accessory box.

c. Power cables should be stowed on the cable reels.

11-10. Tiedown Instructions for Shipping Power Units by Railroad Transportation. See Appendix C.

11-11. Cleaning. The power unit or power plant shall be cleaned by wiping dirt and dust off the equipment with a clean, dry cloth. Also, use a brush on hard-to-remove caked dirt.

Section III. REPAIR PARTS

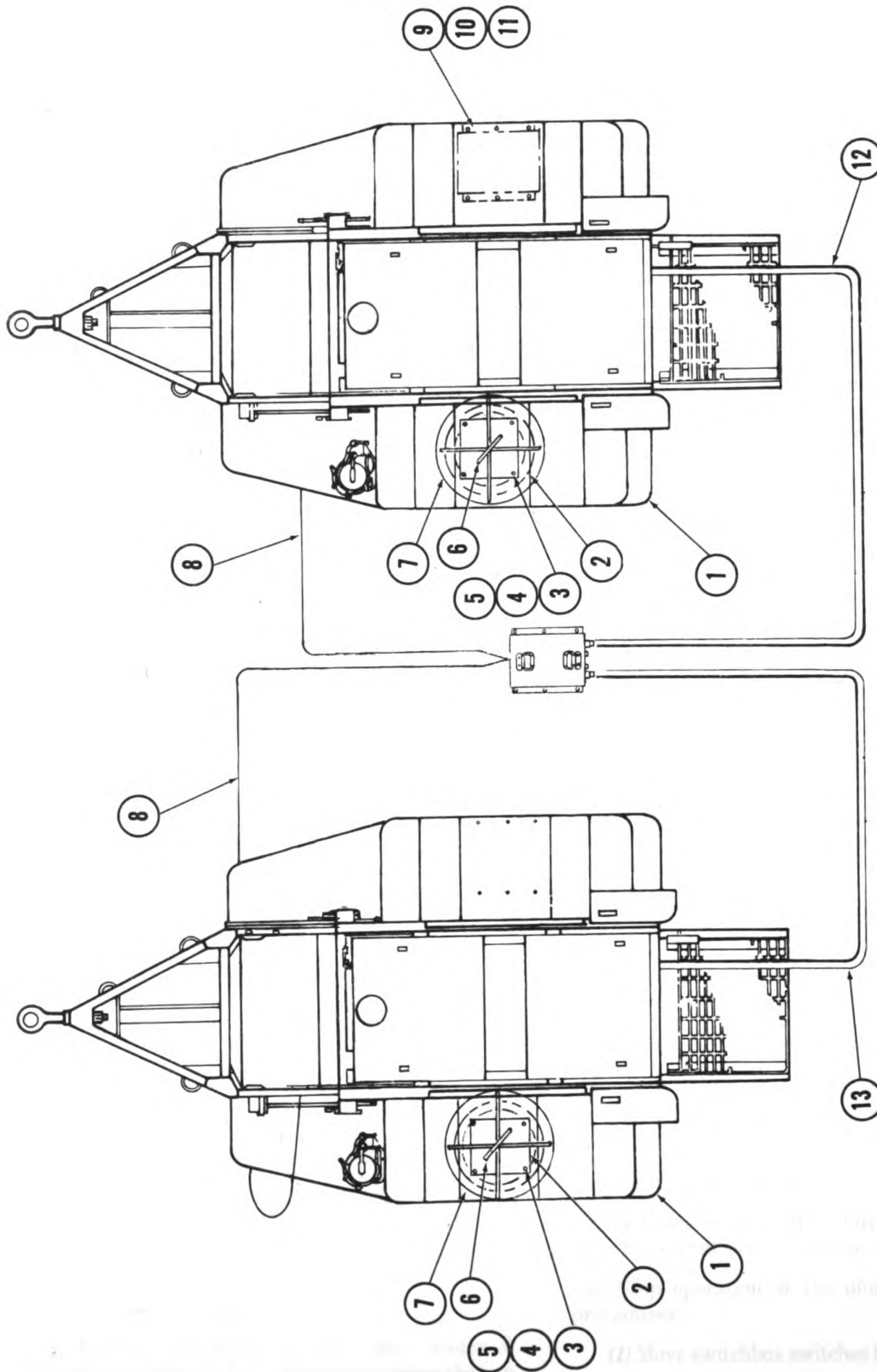
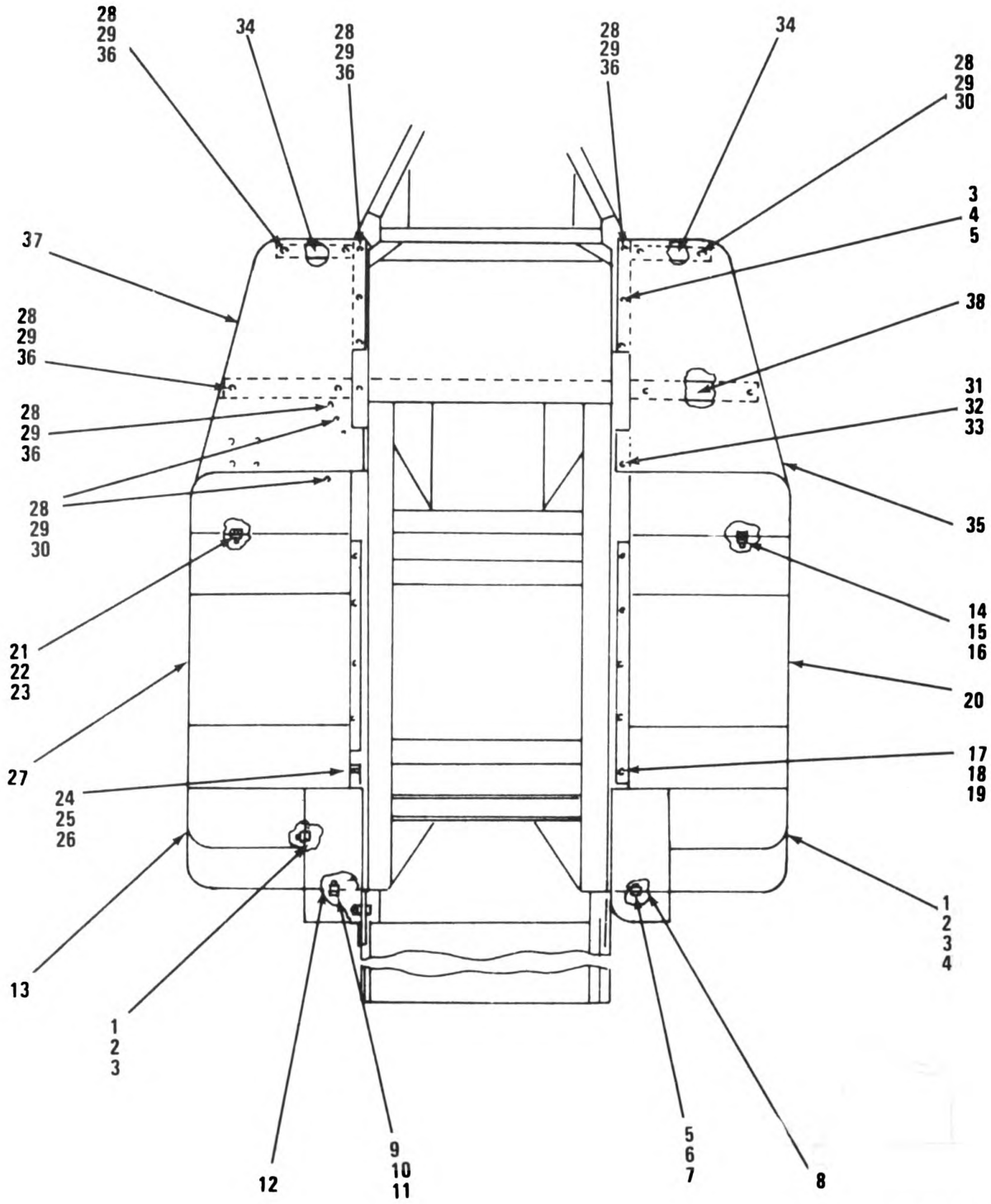


Figure 11-1 Power Plant, Electric, Trailer Mounted AN/MSQ-12A

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO.	(B) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
11-2	1	XBFFH	2330-00-604-4282	97403	13214E1257	TRAILER CHASSIS		EA 1
11-2	2	PAOZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING X 5/16-18 UNC-2B		EA 5
11-2	3	PAOZZ	5310-00-087-7493	96906	MS27183-13	WASHER, FLAT		EA 5
11-2	4	PAOZZ	5306-00-225-8498	96906	MS90725-33	BOLT, MACHINE 16-18X0.875L UNC-2A		EA 5
11-2	5	XBOZZ	2540-00-903-3503	97403	13214E1256	BOX, VEHICULAR ACCESS		EA 1
11-2	6	PAOZZ	5975-00-878-3791	07464	3598	ROD, GROUND ONAL 9.0 FT LONG		EA 2
11-2	7	PAOZZ	2910-00-066-1235	97403	13211E7541	ADAPTER, CONTAINER		EA 1
11-2	8	PAOZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING		EA 12
11-2	9	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT		EA 20
11-2	10	PAOZZ	5305-00-984-5691	96906	MS35206-311	SCREW, MACHINE .000 LONG		EA 4
11-2	11	PAOZF	4210-00-270-4512	02788	F5COV	EXTINGUISHER, FIRE		EA 1
11-2	12	XBOZZ	4210-00-223-4857	97403	13214E1235	BRACKET, FIRE EXT		EA 1
11-2	13	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING 1/4-20 UNC-2B		EA 1
11-2	14	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT		EA 1
11-2	15	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEXAGON 4-20X0.750 LONG UNC-2A		EA 1
11-2	16	XBOZZ	5340-00-914-2578	97403	13214E1213-1	CLIP, SPRING TENSION		EA 1
11-2	17	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING, CADMIUM PLATED 1/4-20 UNC-2B		EA 2
11-2	18	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT 0.281 IDX0.625 ODX0.065 THK		EA 2
11-2	19	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEXAGON ALLOY STEEL CADMIUM PLATED 1/4-20X0.750 LONG UNC-2A		EA 2
11-2	20	XBOZZ	5340-00-999-6277	97403	13214E1214	BRACKET, ANGLE		EA 1
11-2	21	PAOZZ	5120-00-251-4489	81348	GGGH86	HAMMER, HAND CLASS I TYPE 10 8LB		EA 1
11-2	22	XBOZZ		97403	13216E7604-36	PLATE, IDENT		EA 1
11-2	23	XDOZZ		97403	13214E1223	STUD, CONTINUOUS THD		EA 1
11-2	24	PAOZZ	5310-00-543-4717	96906	MS35425-28	NUT, PLAIN, WING 3/8-16 UNC-2B		EA 1
11-2	25	PAOZZ	5310-01-004-9129	88044	AN961-6168	WASHER, FLAT		EA 4
11-2	26	PAOZZ	5310-00-187-2413	88044	AN961-616T	WASHER, FLAT		EA 4
11-2	27	PAOZZ	5310-01-026-5824	96906	MS16203-39	NUT, PLAIN, HEXAGON		EA 2
11-2	28	PAOZZ	5310-00-022-8847	96906	MS35333-110	WASHER, LOCK		EA 1
11-2	29	PAOZZ	5310-00-584-7995	96906	MS16203-27	NUT, PLAIN, HEXAGON		EA 1
11-2	30	PAOZZ	5940-00-115-4992	96906	MS20659-110	TERMINAL, LUG		EA 2
11-2	31	MOOZZ		81348	QQ-W-343C06BLT	WIRE, GROUND CLASS B		FT 6
11-2	32	PAOZZ	4730-00-809-9703	96906	MS24519-9	ELBOW, PIPE		EA 1
11-2	33	PAOZZ	4720-00-278-1096	24161	19B3/8-250-44IN	HOSE, NONMETALLIC		EA 1
11-2	34	PAOZZ	4730-00-908-3194	96906	MS35842-11	CLAMP, HOSE		EA 1
11-2	35	PAOZZ	9905-01-085-7703	97403	13205E4918	PLATE ID GROUND		EA 1
11-2	36	PAOZZ	5305-00-253-5615	96906	MS21318-21	SCREW, DRIVE		EA 4



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Figure 11-3 Trailer, Top View

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
11-3	1	PAFZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 10
11-3	2	PAFZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 20
11-3	3	PAFZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE		EA 10
11-3	4	XBFZZ		97403	13214E1259	STEP, REAR, CURBSIDE		EA 1
11-3	5	PAFZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING		EA 3
11-3	6	PAFZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT		EA 3
11-3	7	PAFZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON		EA 3
11-3	8	XBFZZ		97403	13214E13309-2	BRACKET, REAR, STEP		EA 1
11-3	9	PAFZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING		EA 3
11-3	10	PAFZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT		EA 3
11-3	11	PAFZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON		EA 3
11-3	12	XBFZZ		97403	13214E1309-1	BRACKET, REAR, STEP		EA 1
11-3	13	XBFZZ		97403	13214E1261	STEP, REAR, ROADSIDE		EA 1
11-3	14	PAFZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 7
11-3	15	PAFZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 14
11-3	16	PAFZZ	5306-00-225-8500	96906	MS90725-35	BOLT, MACHINE		EA 7
11-3	17	PAFZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 5
11-3	18	PAFZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 10
11-3	19	PAFZZ	5306-00-225-8500	96906	MS90725-35	BOLT, MACHINE		EA 5
11-3	20	XBFZZ		97403	13214E1263	FENDER, CURBSIDE		EA 1
11-3	21	PAFZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 7
11-3	22	PAFZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 14
11-3	23	PAFZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE		EA 7
11-3	24	PAFZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 5
11-3	25	PAFZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 10
11-3	26	PAFZZ	5306-00-225-8500	96906	MS90725-35	BOLT, MACHINE		EA 5
11-3	27	XBFZZ		97403	13214E1264	FENDER, ROADSIDE		EA 1
11-3	28	PAFZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 2
11-3	29	PAFZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 4
11-3	30	PAFZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE		EA 2
11-3	31	PAFZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING		EA 1
11-3	32	PAFZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT		EA 2
11-3	33	PAFZZ	5305-00-225-9081	96906	MS90725-36	SCREW, CAP, HEXAGON		EA 1
11-3	34	XBFZZ		97403	13214E1267-1	SPACER		EA 1
11-3	35	XBFZZ		97403	13214E1461	STEP, FRONT, CURBSIDE		EA 1
11-3	36	PAFZZ	5306-00-225-8503	96906	MS90725-39	BOLT, MACHINE		EA 8
11-3	37	PBFZZ	2510-01-196-4682	97403	13214E1462	STEP, FRONT, ROADSIDE		EA 1
11-3	38	XBFZZ	5365-00-945-5998	97403	13214E1267-2	SPACER PLATE		EA 2

Change 2

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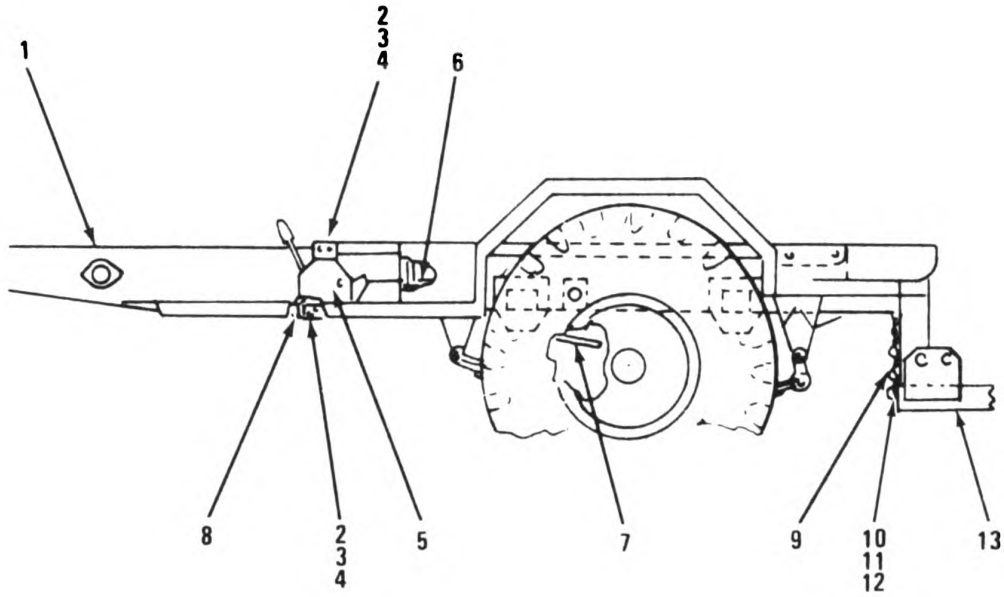
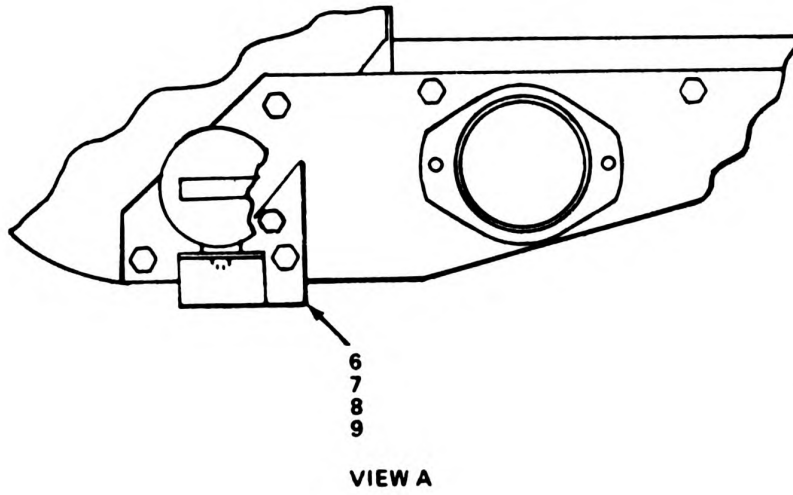
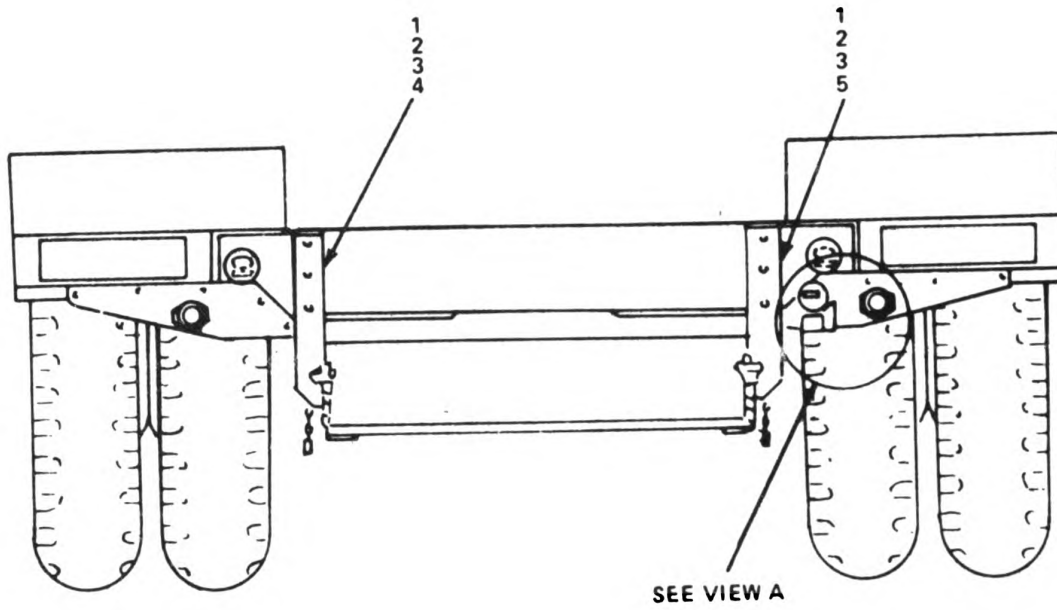


Figure 11-4 Trailer, Side View

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	F8CM	PART NUMBER	USABLE ON CODE	U/M	
11-4	1	XBFZZ		97403	13214E1258	CHASSIS	EA	1
11-4	2	PAFZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	6
11-4	3	PAFZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT	EA	12
11-4	4	PAFZZ	5306-00-225-8499	96906	MS90725-34	BOLT, MACHINE	EA	6
11-4	5	XBFZZ		97403	13214E1269	BRACKET, BRAKE	EA	2
11-4	6	XDFZZ		97403	13214E1270	BRACKET, ANGLE	EA	2
11-4	7	XDFZZ	5365-00-944-2691	97403	13214E1271	SPACER, PLATE	EA	2
11-4	8	XBFZZ	5365-00-989-3304	97403	13214E1272	SPACER, SLEEVE	EA	4
11-4	9	XBFZZ		97403	13214E1303	ANCHOR PLATFORM	EA	2
11-4	10	PAFZZ	5310-00-067-8356	96906	MS51922-57	NUT, SELF-LOCKING	EA	2
11-4	11	PAFZZ	5310-00-809-8533	96906	MS27183-23	WASHER, FLAT	EA	4
11-4	12	PAFZZ	5306-00-939-9204	96906	MS90725-187	SCREW, CAP, HEXAGON	EA	2
11-4	13	XBFZZ	2510-00-926-3517	97403	13214E1298	PLATFORM, TAILGATE	EA	1
11-4	14	PAOZZ	5340-00-051-1407	96906	MS17987-C810	PIN, QUICK RELEASE	EA	12



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Figure 11-5 Trailer, Rear View

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
11-5	1	PAFEE	5310-00-225-6993	96906	MS51922-33	NUT, SELF-LOCKING	EA	6
11-5	2	PAFEE	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT	EA	6
11-5	3	PAFEE	5305-00-042-6417	96906	MS90725-113	SCREW, CAP, HEXAGON	EA	6
11-5	4	XBFE	5340-00-087-7676	97403	13214E1299	BRACKET, ANGLE	EA	1
11-5	5	XBFE	5340-00-999-6441	97403	13214E1300	BRACKET, ANGLE	EA	1
11-5	6	PAFEE	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	2
11-5	7	PAFEE	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	2
11-5	8	PAFEE	5305-00-225-3839	96906	MS90725-8	SCREW, CAP, HEXAGON	EA	2
11-5	9	XBFE	2510-00-948-3253	97403	13214E1308	BRACKET	EA	1

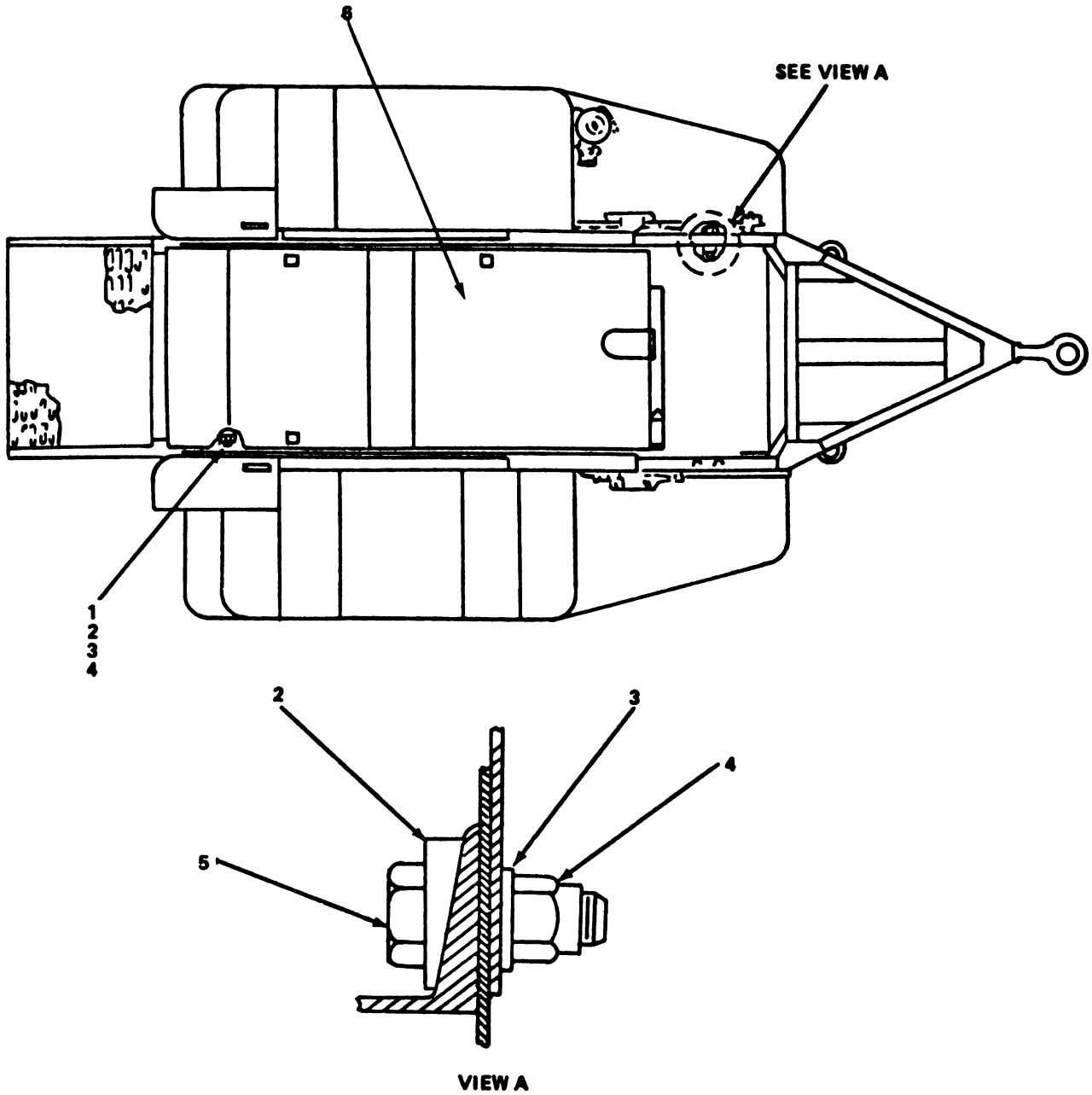


Figure 11-6 Generator Mounting

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
11-6	1	PAPSE	5305-00-724-7224	96906	MS90728-166	SCREW, CAP, HEXAGON	EA	6
11-6	2	PAPSE		97403	13206E4482-3	WASHER	EA	8
11-6	3	PAPSE	5310-00-823-8803	96906	MS27183-21	WASHER, FLAT	EA	8
11-6	4	PAPSE	5310-00-269-4040	96906	MS51922-49	NUT, SELF-LOCKING	EA	8
11-6	5	PAPSE	5305-00-724-7222	96906	MS90728-164	SCREW, CAP, HEXAGON	EA	4
11-6	6	PDPFH	6115-00-118-1243	30554	70-006	GENERATOR SET, DIESEL MEP-006	EA	1

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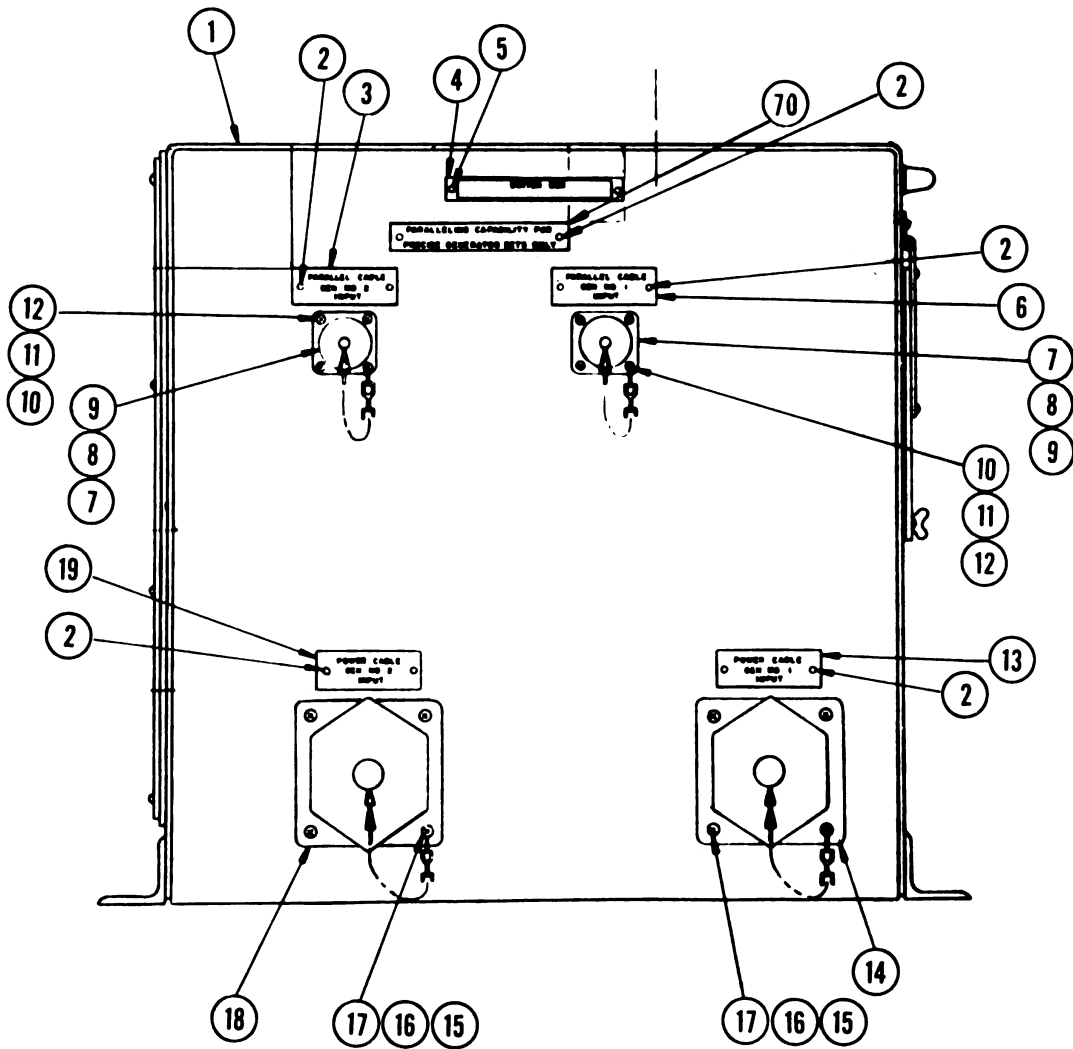


Figure 11-7. Switchbox Assembly (Sheet 1 of 7)

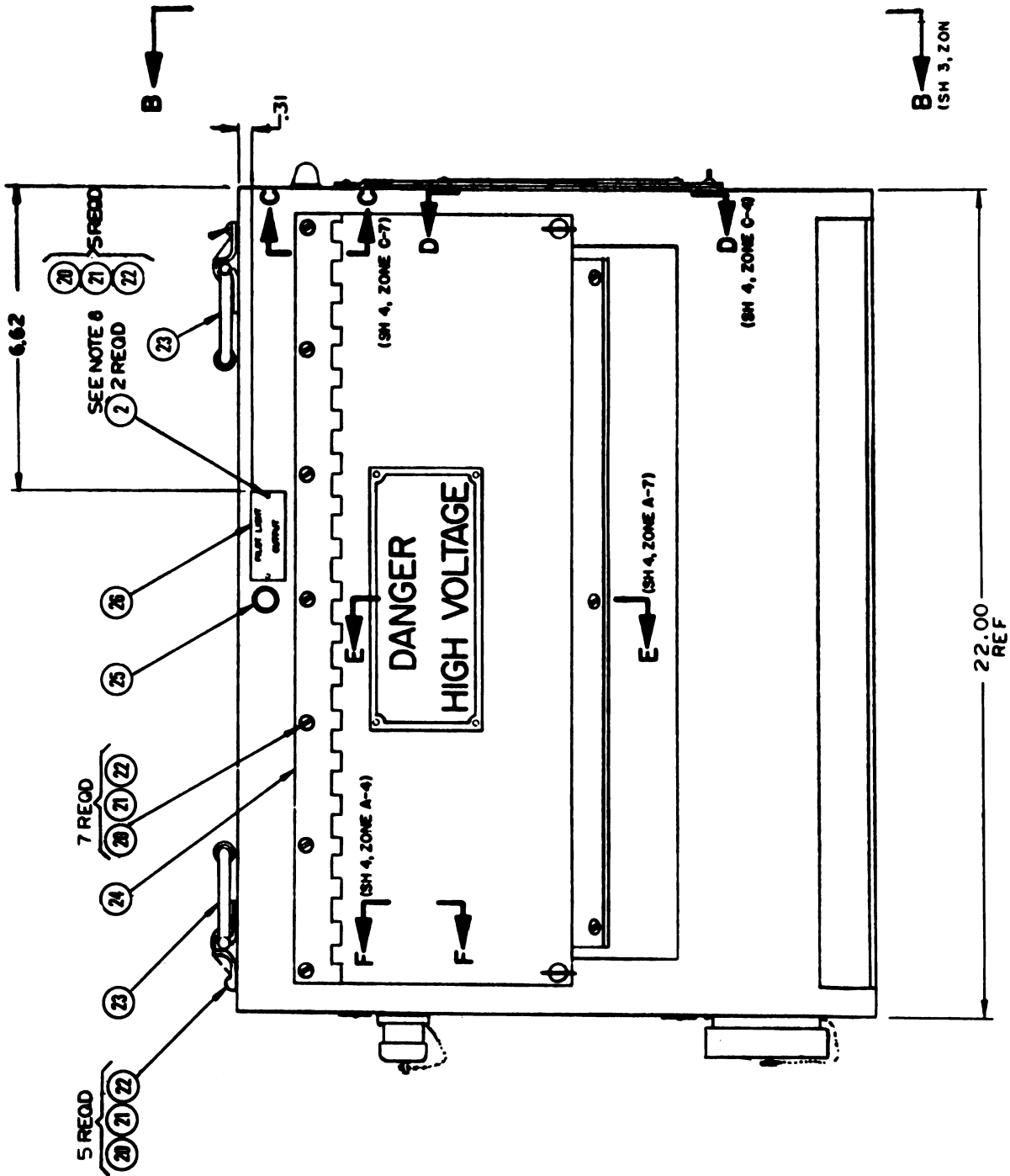


Figure 11-7. Switchbox Assembly (Sheet 2 of 7)

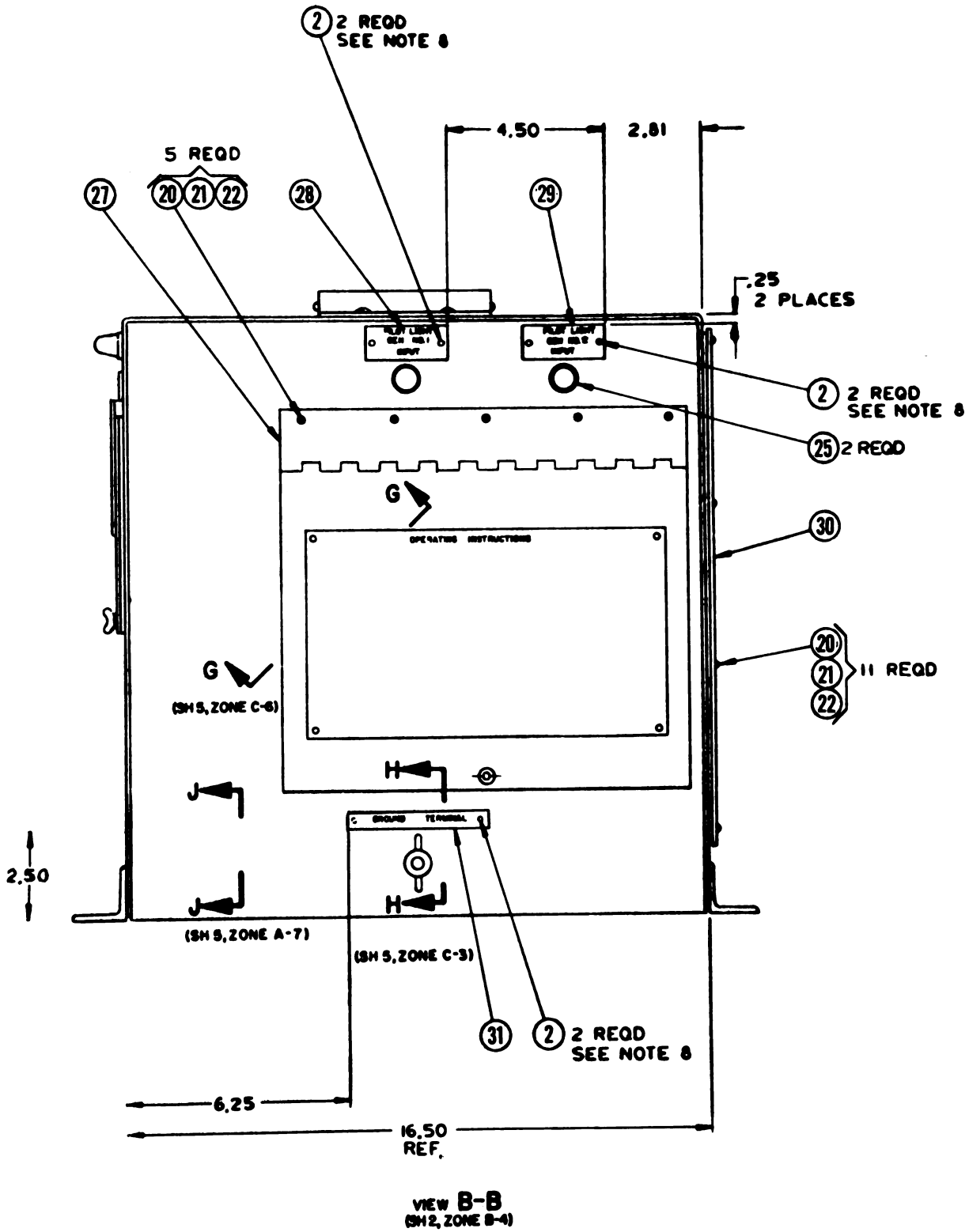


Figure 11-7. Switchbox Assembly (Sheet 3 of 7)

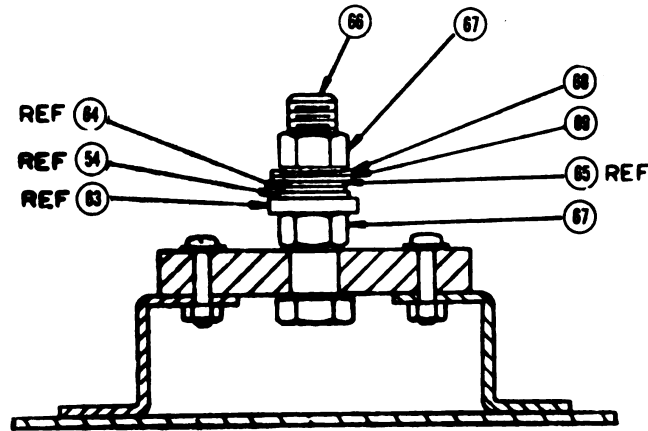
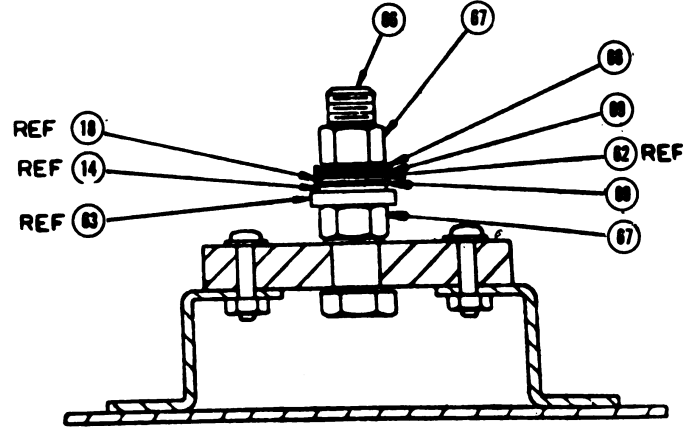
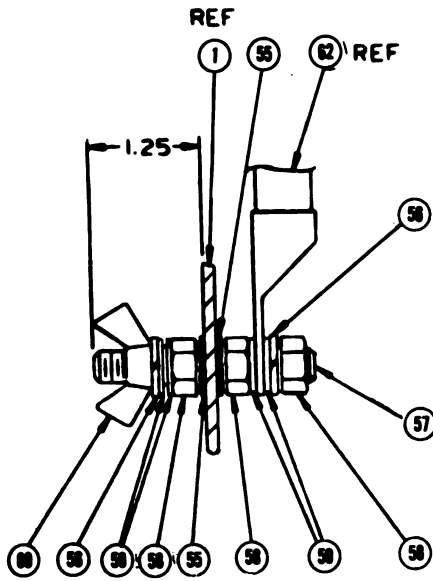


Figure 11-7. Switchbox Assembly (Sheet 4 of 7)

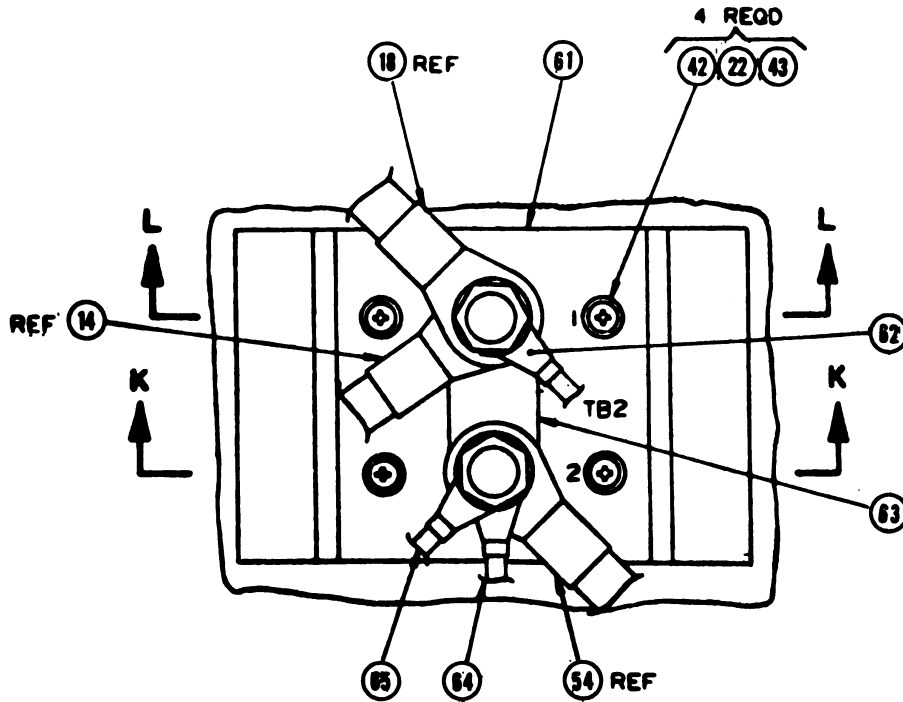
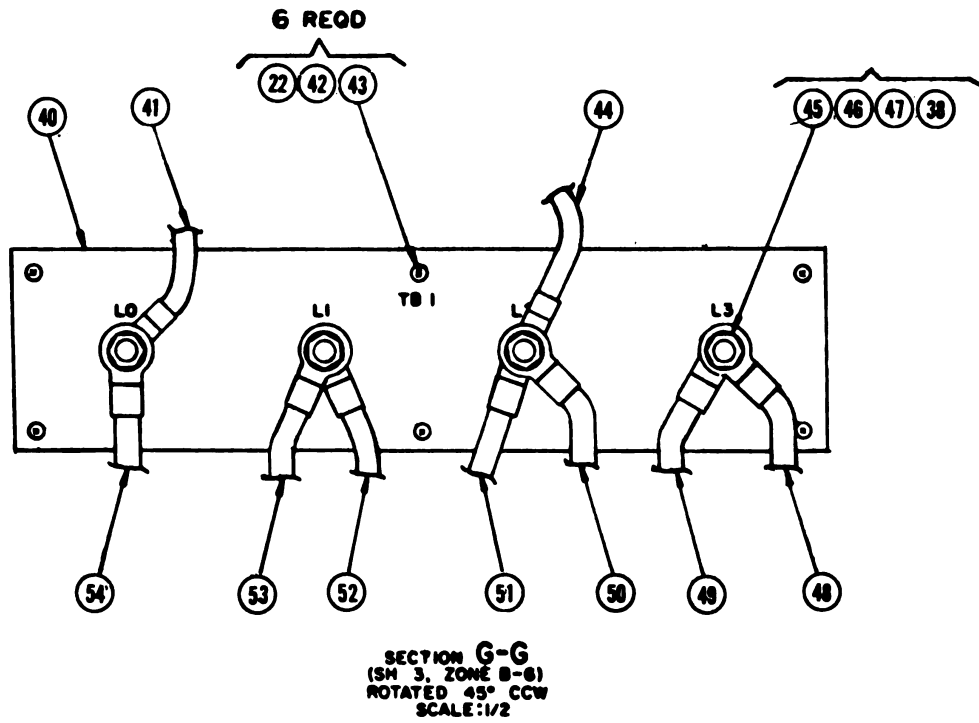


Figure 11-7. Switchbox Assembly (Sheet 5 of 7)

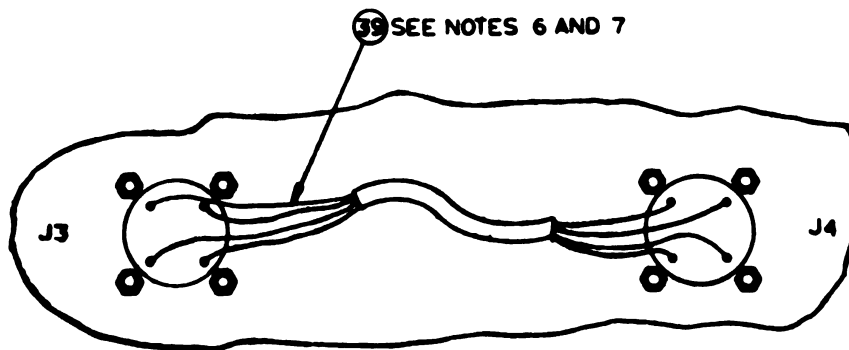
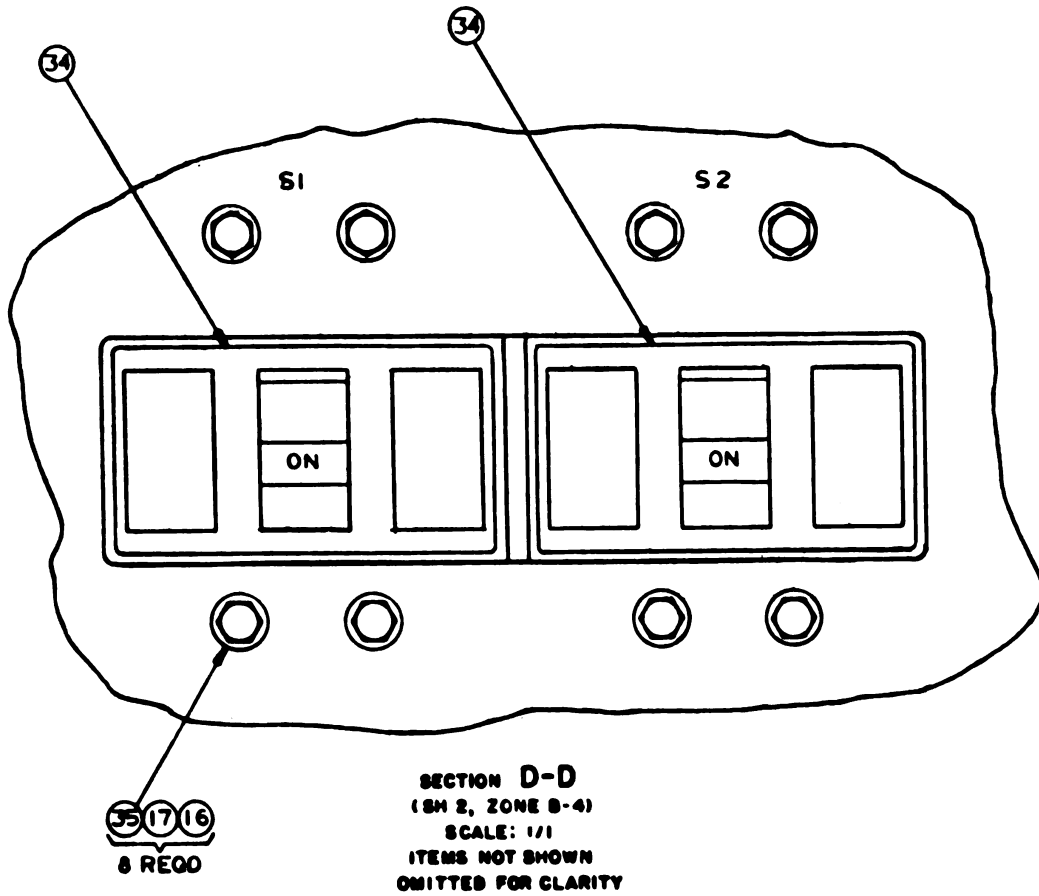
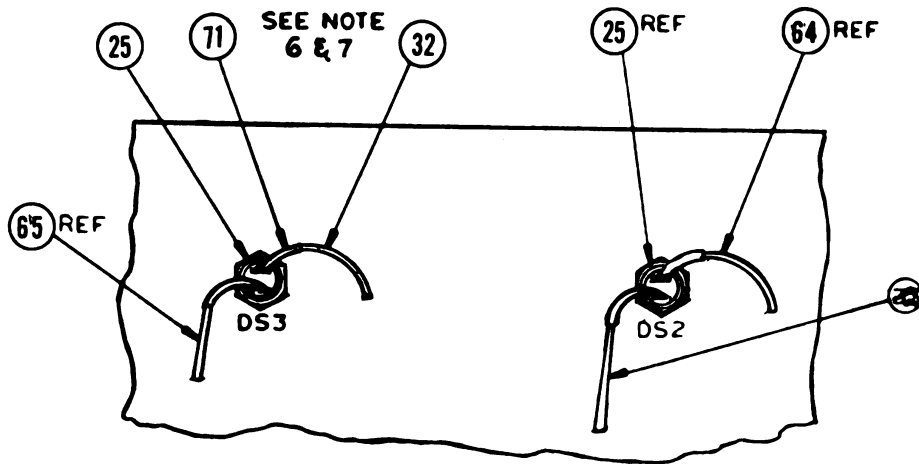


Figure 11-7. Switchbox Assembly (Sheet 6 of 7)



SECTION C-C
(SHEET 2, ZONE C-4)
SCALE: 1/1
ITEMS NOT SHOWN
OMITTED FOR CLARITY

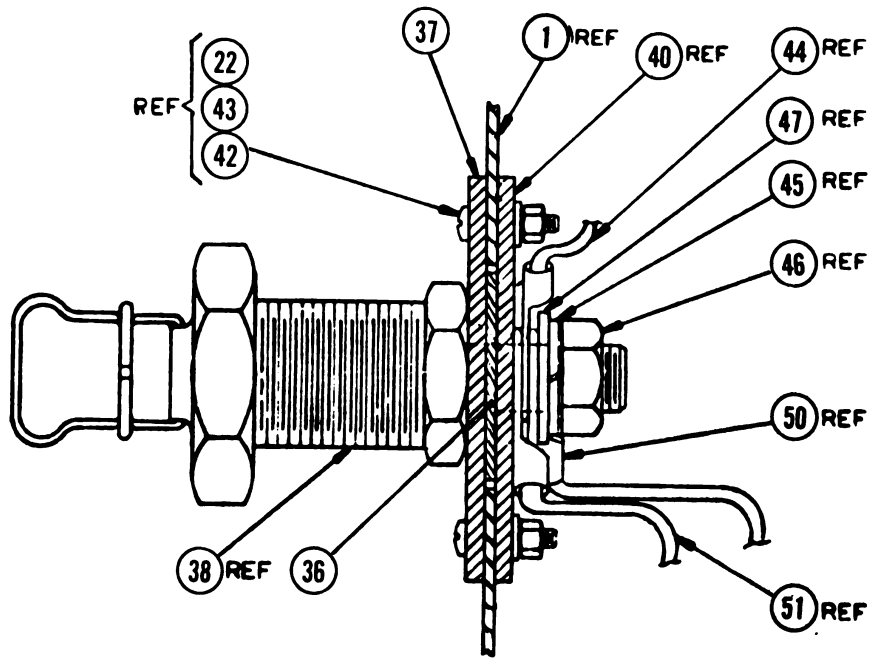


Figure 11-7. Switchbox Assembly (Sheet 7 of 7)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	QTY INC IN UNT
11-7		PAFZZ	6110-01-038-3732	97403	13221E7360	DISTRIBUTION BOX	EA	1
11-7	1	XBFZZ		97403	13221E7351	SWITCH BOX	EA	1
11-7	2	PAOZZ	5305-00-253-5612	96906	MS21318-15	SCREW, DRIVE	EA	18
11-7	3	XBOZZ		97403	13214E1364	PLATE, DESIGNATION	EA	1
11-7	4	XBOZZ		97403	13221E7357	PLATE, IDENT	EA	1
11-7	5	PAOZZ	5305-00-253-5615	96906	MS21318-21	SCREW, DRIVE	EA	2
11-7	6	XBOZZ		97403	13214E1363	PLATE, DESIGNATION	EA	1
11-7	7	PAFZZ	5935-00-801-6617	96906	MS3102R18-4P	CONNECTOR, RECEPTABLE	EA	2
11-7	8	XBOZZ	5935-00-500-5008	96906	MS25043-18D	COVER, ELECTRICAL	EA	2
11-7	9	PAFZZ	5330-00-508-0753	96906	MS52000-6	GASKET	EA	2
11-7	10	PAFZZ	5305-00-984-4976	96906	MS35206-219	SCREW, MACHINE	EA	8
11-7	11	PAFZZ	5310-00-951-4679	96906	MS27183-3	WASHER, FLAT	EA	8
11-7	12	PAFZZ	5310-00-088-0551	96906	MS21044N04	NUT, SELF-LOCKING	EA	8
11-7	13	XBOZZ		97403	13214E1361	PLATE DESIGNATION	EA	1
11-7	14	PAFZZ		97403	13221E7354-1	CABLE ASSY	EA	1
11-7		PAFZZ		49367	ZZM-WFB17724-21P	CONNECTOR, RECEPTACLE	EA	1
11-7		PAFZZ		81349	M23053/5-109-0	INSULATION SLEEVING	EA	4
11-7		PAFZZ	6145-00-195-5602	96906	MS086/2-04-9	WIRE, SIZE 0000	FT	V
11-7		PAFZZ	5940-00-114-1321	96906	MS25036-141	TERMINAL, LUG	EA	1
11-7	15	PAFZZ	5305-00-988-1725	96906	MS35206-281	SCREW, MACHINE	EA	8
11-7	16	PAFZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	16
11-7	17	PAFZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	16
11-7	18	PAFZZ		96906	MS20059-160	TERMINAL, LUG	EA	1
11-7		PAFZZ	5970-00-822-2775	81349	M23053/5-110-9	INSULATION, SLEEVING	EA	V
11-7		PAFZZ		49367	ZZM-WFB17724-21P	CONNECTOR, RECEPTACLE	EA	1
11-7		PAFZZ	5970-00-914-3118	81349	M23053/5-109-0	INSULATION SLEEVING	EA	4
11-7		PAFZZ	5940-00-114-1321	96906	MS25036-141	TERMINAL, LUG	EA	1
11-7	19	XBOZZ		97403	13214E1362	PLATE, DESIGNATION	EA	1
11-7	20	PAOZZ	5305-00-993-1848	96906	MS35207-265	SCREW, MACHINE	EA	33
11-7	21	PAFZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK	EA	33
11-7	22	PAOZZ	5310-00-014-5850	96906	MS27183-42	WASHER, FLAT	EA	43
11-7	23	PAOZZ	5340-00-801-2957	96906	MS18012-5	HANDLES	EA	2
11-7	24	XOBZZ		97403	13221E7352	COVER, LOAD, TERMINAL	EA	1
11-7	25	PAFZZ		97403	13214E1391	LIGHT, INDICATOR	EA	3
11-7		PAOZZ	6210-00-246-4888	81349	LC33PN2	LENS, LIGHT	EA	3
11-7		PAOZZ	6240-00-892-4420	81349	M15098/11-001	LAMP, GLOW	EA	3
11-7	26	XBOZZ		97403	13214E1357	PLATE, DESIGNATION	EA	1
11-7	27	XBFZZ		97403	13218E5151	DOOR, ACCESS	EA	1
11-7	28	XBOZZ		97403	13214E1359	PLATE, DESIGNATION	EA	1
11-7	29	XBOZZ		97403	13214E1360	PLATE, DESIGNATION	EA	1
11-7	30	XBFZZ		97403	13221E7353	COVER, ACCESS	EA	1
11-7	31	XBOZZ		97403	13217E2005	PLATE, IDENT	EA	1
11-7	32	PAFZZ	6145-00-578-7518	81349	MS086/1-18-9	WIRE, ELECTRICAL	FT	V

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	UNIT	QTY INC IN UNIT
11-7	33	PAFZZ	6145-00-578-7518	81349	M5086/1-18-9	WIRE, ELECTRICAL	FT	V
11-7	34	PAFZZ	5930-00-433-9082	97403	13216E7554	SWITCH, TOGGLE	EA	2
11-7	35	PAFZZ	5305-00-071-2235	96906	MA90725-16	SCREW, HEXAGON	EA	8
11-7	36	XBFZZ		97403	13218E5108	FILLER	EA	1
11-7	37	XBFZZ		97403	13218E5109	PANEL INSULATOR	EA	1
11-7	38	PAFZZ	5940-00-237-2704	97403	13208E5820-8	POST, BINDING, ELECTRICAL	EA	4
11-7	39	PAFZZ	6145-01-038-5963	81349	CO-04HDF 4/16 0500	CABLE AND WIRE	FT	10
11-7	40	XBFZZ		97403	13218E5107	PANEL INSULATOR	EA	1
11-7	41	MFFZZ		97403	13221E7356-1	LEAD, ELECTRICAL	EA	1
11-7		PAFZZ	6145-00-578-6602	81349	M5086/2-18-9	WIRE, ELECTRICAL	FT	V
11-7		PAFZZ		97403	13218E5068	TERMINAL, LUG	EA	1
11-7	42	PAFZZ	5305-00-993-1851	96906	MS35207-267	SCREW, MACHINE	EA	10
11-7	43	PAFZZ	5310-00-877-5797	96906	MS21044N3	NUT, SELF-LOCKING	EA	10
11-7	44	MFFZZ		97403	13221E7356-2	LEAD, ELECTRICAL	EA	1
11-7		PAFZZ	6145-00-578-6602	81349	M5086/2-18-9	WIRE, ELECTRICAL	FT	V
11-7		PAFZZ		97403	13218E5068	TERMINAL, LUG	EA	1
11-7	45	PAFZZ	5310-00-680-6823	96906	MS35338-108	WASHER, LOCK	EA	4
11-7	46	PAFZZ	5310-00-584-7999	96906	MS16203-31	NUT, PLAIN, HEXAGON	EA	4
11-7	47	PAOZZ	5310-00-045-5222	96906	MS15795-922	WASHER, FLAT	EA	4
11-7	48	MFFZZ		97403	13221E7356-10	LEAD, ELECTRICAL	EA	1
11-7		PAFZZ	6145-00-195-5602	81349	M5086/2-04-9	WIRE, ELECTRICAL	FT	V
11-7		PAFZZ		96906	MS20059-160	TERMINAL, LUG	EA	1
11-7			5970-00-822-2775	81349	M23053/5-110-9	INSULATION, SLEEVING	FT	V
11-7	49	MFFZZ		97403	13221E7356-11	LEAD, ELECTRICAL	EA	1
11-7		PAFZZ	6145-00-195-5602	81349	M5086/2-04-9	WIRE, ELECTRICAL	FT	V
11-7	50	MFFZZ		97403	13221E7356-8	LEAD, ELECTRICAL	EA	1
11-7		PAFZZ	6145-00-195-5602	81349	M5086/2-04-9	WIRE, ELECTRICAL	FT	V
11-7		PAFZZ		96906	MS20059-160	TERMINAL, LUG	EA	1
11-7		PAFZZ	5970-00-822-2775	81349	M23053/5-110-9	INSULATION, SLEEVING	FT	V
11-7	51	MFFZZ		97403	13221E7356-9	LEAD, ELECTRICAL	EA	1
11-7		PAFZZ	6145-00-195-5602	81349	M5086/2-04-9	WIRE, ELECTRICAL	FT	V
11-7		PAFZZ		96906	MS20059-160	TERMINAL, LUG	EA	1
11-7		PAFZZ	5970-00-822-2775	81349	M23053/5-110-9	INSULATION, SLEEVING	FT	V
11-7	52	MFFZZ		97403	13221E7356-6	LEAD, ELECTRICAL	EA	1
11-7		PAFZZ	6145-00-195-5602	81349	M5086/2-04-9	WIRE, ELECTRICAL	FT	V
11-7		PAFZZ		96906	MS20059-160	TERMINAL, LUG	EA	1
11-7		PAFZZ	5970-00-822-2775	81349	M23053/5-110-9	INSULATION, SLEEVING	EA	1
11-7		PAFZZ	6145-00-195-5602	81349	M5086/2-04-9	WIRE, ELECTRICAL	FT	V
11-7	53	MFFZZ		97403	13221E7356-7	LEAD, ELECTRICAL	EA	1
11-7		PAFZZ	6145-00-195-5602	81319	M5086/2-04-9	WIRE, ELECTRICAL	FT	V
11-7		PAFZZ		96906	MS20059-160	TERMINAL, LUG	EA	1
11-7		PAFZZ	5970-00-822-2775	81349	M23053/5-110-9	INSULATION, SLEEVING	FT	V

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
11-7	54	HFFZZ		97403	13221E7356-5	LEAD, ELECTRIC	EA	1
11-7		PAFZZ	6145-00-195-5602	81349	M5086/2-04-9	WIRE, ELECTRICAL	FT	V
11-7		PAFZZ		96906	MS20059-160	TERMINAL, LUG	EA	1
11-7		PAFZZ	5940-00-114-1321	96906	MS25036-141	TERMINAL, LUG	EA	1
11-7		PAFZZ	5970-00-822-2775	81349	M23053/5-110-9	INSULATION, SLEEVEING	FT	V
11-7	55	PAFZZ	5310-00-913-9776	96906	MS35335-91	WASHER, LOCK	EA	2
11-7	56	PAFZZ	5310-00-184-8971	96906	MS35338-103	WASHER, LOCK	EA	2
11-7	57	XDFZZ		97403	13214E1223	STUD, CONTINUOUS THREAD	EA	1
11-7	58	PAFZZ	5310-01-026-5824	96906	MS16203-39	NUT, PLAIN, HEXAGON	EA	3
11-7	59	PAFZZ	5310-00-187-2413	88044	AN961-616	WASHER, FLAT	EA	4
11-7	60	PAFZZ	5310-00-543-4717	96906	MS35425-28	NUT, PLAIN, WING	EA	1
11-7	61	XBFZZ		97403	13218E5111	INSULATOR	EA	1
11-7	62	HFFZZ		97403	13216E7660-3	WIRE ASSY	EA	1
11-7		PAFZZ	6145-00-578-6594	81349	M5086/2-6-9	WIRE, ELECTRICAL	FT	V
11-7		PAFZZ	5940-00-113-8190	96906	MS25036-122	TERMINAL, LUG	EA	1
11-7		PAFZZ	5940-00-115-2676	96906	MS20659-143	TERMINAL, LUG	EA	1
11-7	63	XBFZZ		97403	13218E5113	LINK, TERMINAL	EA	1
11-7	64	HFFZZ		97403	13221E7356-3	LEAD, ELECTRICAL	EA	1
11-7		PAFZZ	6145-00-578-6602	81349	M5086/2-18-9	WIRE, ELECTRICAL	FT	V
11-7		PAFZZ	5940-00-113-8185	96906	MS25036-151	TERMINAL, LUG	EA	1
11-7	65	HFFZZ		97403	13221E7356-4	LEAD, ELECTRICAL	EA	1
11-7		PAFZZ	6145-00-578-6602	81349	M5086/2-18-9	WIRE, ELECTRICAL	FT	V
11-7		PAFZZ	5940-00-113-8185	96906	MS25036-151	TERMINAL, LUG	EA	1
11-7	66	PAFZZ	5305-00-498-6781	96906	MS35309-416	SCREW, CAP	EA	2
11-7	67	PAFZZ	5310-00-006-8286	96906	MS16203-41	NUT, PLAIN, HEXAGON	EA	4
11-7	68	PAFZZ	5310-00-948-9708	96906	MS35335-93	WASHER, LOCK	EA	2
11-7	69	PAFZZ	5310-00-465-2719	88044	AN961-816T	WASHER, FLAT	EA	3
11-7	70	XBOZZ		97403	13221E7371	PLATE, INSTRUCTION	EA	1

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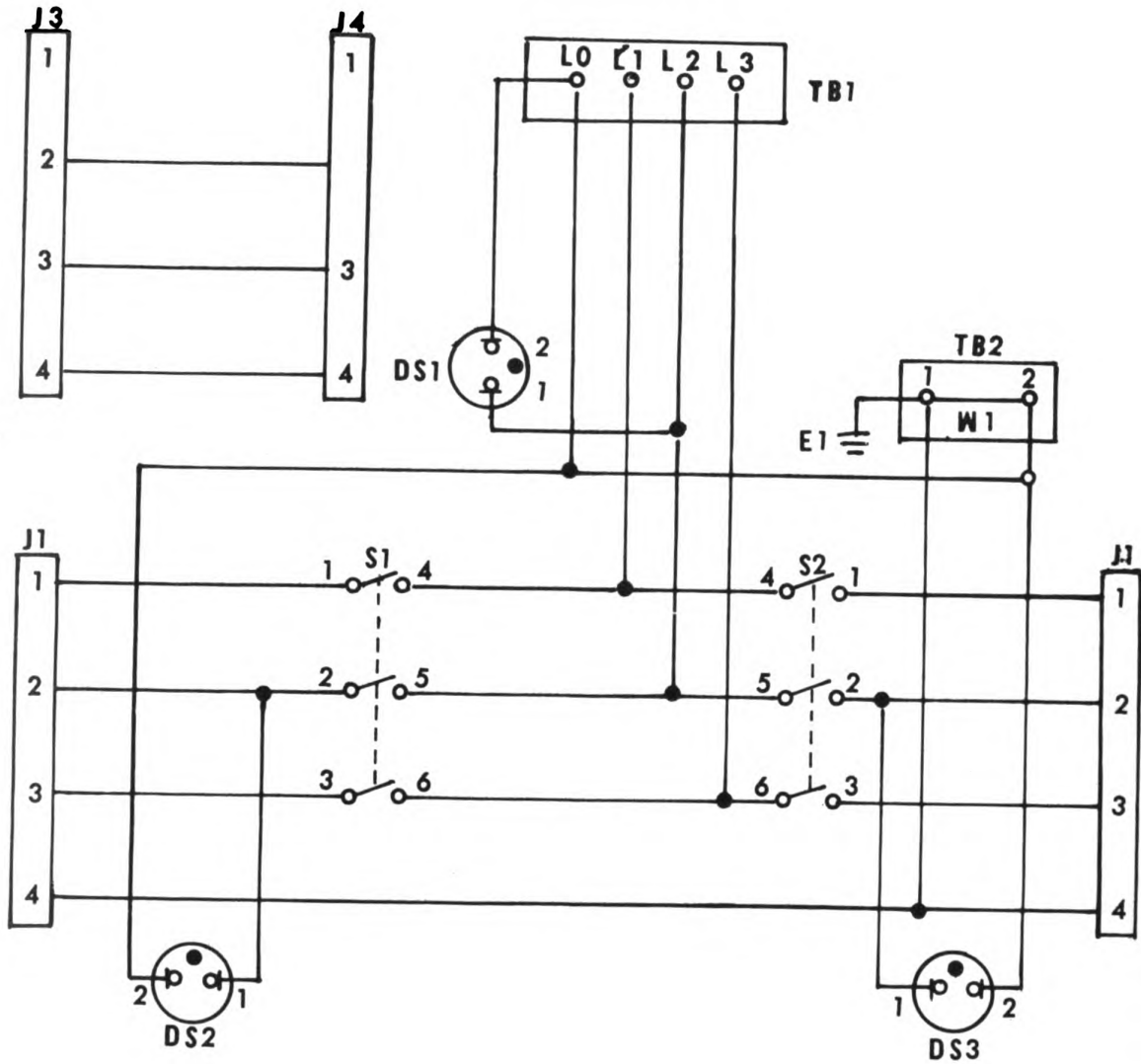


Figure 11-8 Wiring Diagram, Switchbox

CHAPTER 12

POWER UNIT, PU751/M

Section I. DESCRIPTION AND DATA

12-1. Description.

a. General. Power Unit PU751/M, NSN 6115-00-333-1373, is made up of one 5KW, 60 Hz, Tactical Utility, Diesel Engine-Drive (DED) Generator Set, DOD Model MEP-002A, mounted on a modified M116A1, 3/4 ton trailer.

b. Function. The PU751/M is mobile, and may be primarily used to supply power for the Central Radar Surveillance Set, AN APS-94.

c. The equipment listed below is used with Power Unit PU751/M.

Qty	Description-List of Equipment	Identifying No.
2	Rod, Ground, Driven, Sectional 9 ft (2.7 m) long NSN 5975-00-878-3791	MIL-R-11461
1	Hammer, Hand, Engineers, 8 lb (3.6 kg)	GGG-H-86
1	Extinguisher, Fire, Hand, 2-3/4 lb (1.25 kg)	MIL-E-52031
1	Generator Set, 5 KW, 60 Hz, Military Design, DOD MEP-002A, NSN 6115-00-465-1044	MIL-G-52884/1
2	Bracket Assembly, Liquid Container 5 gal. (19 liters)	MS53052-1
1	Trailer, Modified, Model M116A1, 3/4 ton	(19207) 8050054
1	Hammer, Slide, 36" long, 16" wide NSN 5120-01-013-1676	(97403) 13226E7741

12-2. Tabulated Data.

a. Refer to TM 5-6115-584-12 and -34 technical manuals for additional information concerning DED Generator Set, DOD Model MEP-002A.

ENGINE

Manufacturer	ONAN Division of ONAN Corporation
Model	100-1344
DOD Drawing Number	72-5306
Type	2 Cylinder, 4 Stroke Cycl, Air Cooled Diesel
Rated Horsepower at	1800-rpm - 8.9 continuous
Cooling System	Air Cooled
Crankcase Capacity	3.0 quarts (2.8 liters)
Fuel Tank Capacity	6.75 gallons (25.5 liters)
Electrical System	24V, negative ground

GENERATOR

Manufacturer	ONAN Division of ONAN Corporation
--------------	-----------------------------------

DOD Drawing Number	72-5200
Type	Rotating Field Synchronous, brushless
Load Capacity	(1800 rpm) - 5KW @ 60 Hz
Current Rating	(1800 rpm) 52 amps @ 120V, 1 Phase-2 Wire (1800 rpm) 26 amps @ 120/240V, 1 Phase-3 Wire (1800 rpm) 17.3 amps @ 120/208V, 3 Phase-4 Wire
Power Factor	0.8

b. Generator Set Dimensions and Weight:

Length	51 inches (129.5 cm)
Width	32 inches (81.3 cm)
Height	37 inches (94.0 cm)
Weight	(dry) 960 pounds (435.5 kg)

c. Trailer. The generator set is mounted on a modified M116A1, 3/4 ton 2-wheel trailer. The trailer can be towed over prepared roads with loads to 2250 pounds (1022.7 kg) at a maximum speed of 55 mph (88.5 km/h). Over unimproved roads, trails and open rolling terrain the load limit is 2250 pounds (1022.7 kg) at a maximum speed of

**TM 5-6115-594-14&P
TO 35C2-3-1-461**

30 mph (48.3 km/h). It will ford hard-bottomed water crossing to any depth that can be negotiated by the towing vehicle.

Towing Facilities	Lunette
Towing Vehicle	3/4 ton 4x4
Handbrakes	Mechanical, Handlever controlled
Tires	Pneumatic, normal use 25 psi (1.76 kg/sq cm). In mud, snow and sand use 15 psi (1.06 kg/sq cm)
Voltage (lighting)	24 VDC
Weight	1340 pounds (609 kg)

12-3. Description of Major Components.

a. Vehicle and Mounting Facilities.

(1) The M116A1 Trailer described in TM 9-2330-202-14P has been modified for use with the 5KW, 60 Hz, Generator Set as follows:

Section II. OPERATING INSTRUCTIONS

12-4. Inspecting and Servicing Equipment.

a. Generator Set. Perform the inspection and servicing procedures described in TM 5-6115-584-12.

b. M116A1 Trailer. Perform the inspection and servicing procedures described in TM 9-2330-202-14P.

12-5. Installation.

a. Trailer.

(1) Locate the trailer on as level a surface as possible in order for the generator set to operate efficiently.

(2) Set brakes and block wheels securely to prevent any movement.

(3) Pull leg supports down and adjust length for firm contact with ground.

WARNING

Wheels must be blocked, brakes set and leg supports down in support position before operating the equipment.

b. External Fuel Line Connections. When the generator set is to be operated for long intervals, frequent refilling of the fuel tanks can be

(a) **Chassis Body.** A flat bed has been added to the M116A1 chassis.

(b) **Taillight Assemblies.** The taillight assemblies have been moved from the chassis to chassis brackets.

(c) **Rear Landing Leg Assembly.** A landing leg is provided at the rear cross channel of the frame.

(2) **Generator Set Technical Manuals.** The following technical manuals are applicable to the generator set.

(a) Refer to TM 5-6115-584-12 and -34 for operation and maintenance instructions for the 120, 120/240, and 120/208V, 1 Phase-2Wire, 1 Phase-3 Wire, and 3 Phase-4 Wire, 60 Hz, Air-Cooled, Skid Mounted DOD Generator Set, Model MEP-002A, NSN 6115-00-465-1044.

(b) Refer to TM 5-6115-584-24P for spare parts and special tools list associated with the generator set.

eliminated by obtaining fuel from an external source (such as a 55 gallon diesel fuel drum).

(1) Connect the auxiliary fuel line to the generator set auxiliary fuel supply connection located below the control cabinet.

(2) Connect the auxiliary fuel line to the auxiliary fuel source.

(3) Position the fuel selector valve in the auxiliary position.

c. Ground connections. The generator set may be grounded to an underground metallic water system, a driven metal rod or a buried metal plate. A ground rod must have a minimum diameter of 5/8 inch if solid or 3/4 inch if pipe, and must be driven to a minimum depth of 8 feet. Saturate hole with salt water. A ground plate must have a minimum area of 9 square feet and be buried to a minimum depth of 4 feet. The ground lead must be at least No. 6 AWG copper wire. If a ground rod is used, connect the generator set to ground.

WARNING

Do not operate the generator set until it has been connected to a suitable ground. Serious injury or death by electrocution can result from operating an ungrounded generator set.

12-6. Starting.

a. Perform the prestarting procedures described in paragraph 12-4.

b. Start the generator set as instructed in paragraph 2-4 in TM 5-6115-584-12.

12-7. Stopping. Stop the generator set as instructed in paragraph 2-6 in TM 5-6115-584-12.

12-8. Tiedown Instructions for Shipping Power Units by Railroad Transportation. See Appendix C.

12-9. Cleaning. The power unit or power plant shall be cleaned by wiping dirt and dust off the equipment with a clean, dry cloth. Also, use a brush on hard-to-remove caked dirt.

Section III. REPAIR PARTS

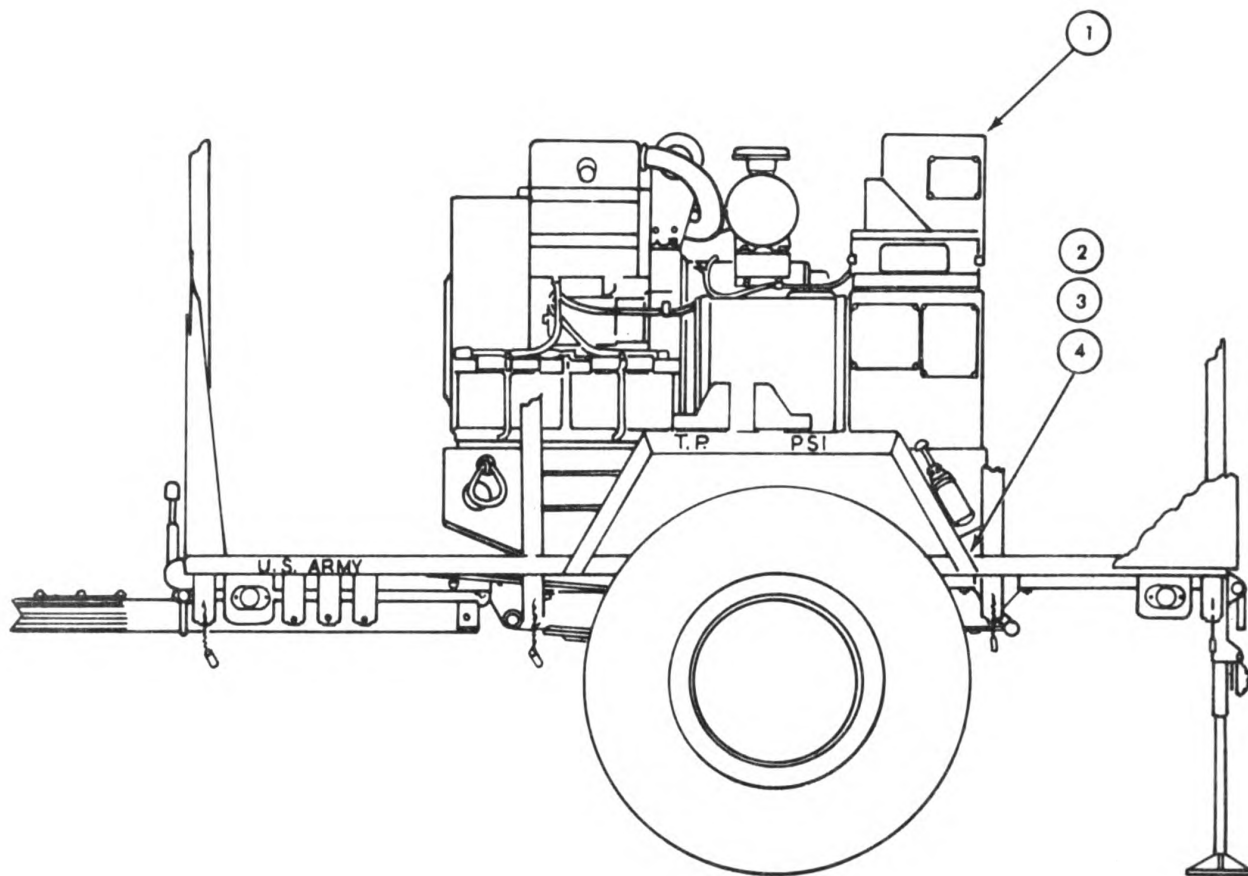


Figure 12-1 Generator Set, PU 751/M

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FBCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
12-1	1	PDFEH	6115-00-465-1044	30554	71-002	GENERATOR SET, DIESEL	EA	1
12-1	2	PAFEE	5305-00-719-5235	96906	MS90727-114	SCREW, CAP, HEX HD	EA	4
12-1	3	PAFEE	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT	EA	8
12-1	4	PAFEE	5310-00-067-9507	96906	MS51922-37	NUT, SELF-LOCKING	EA	4

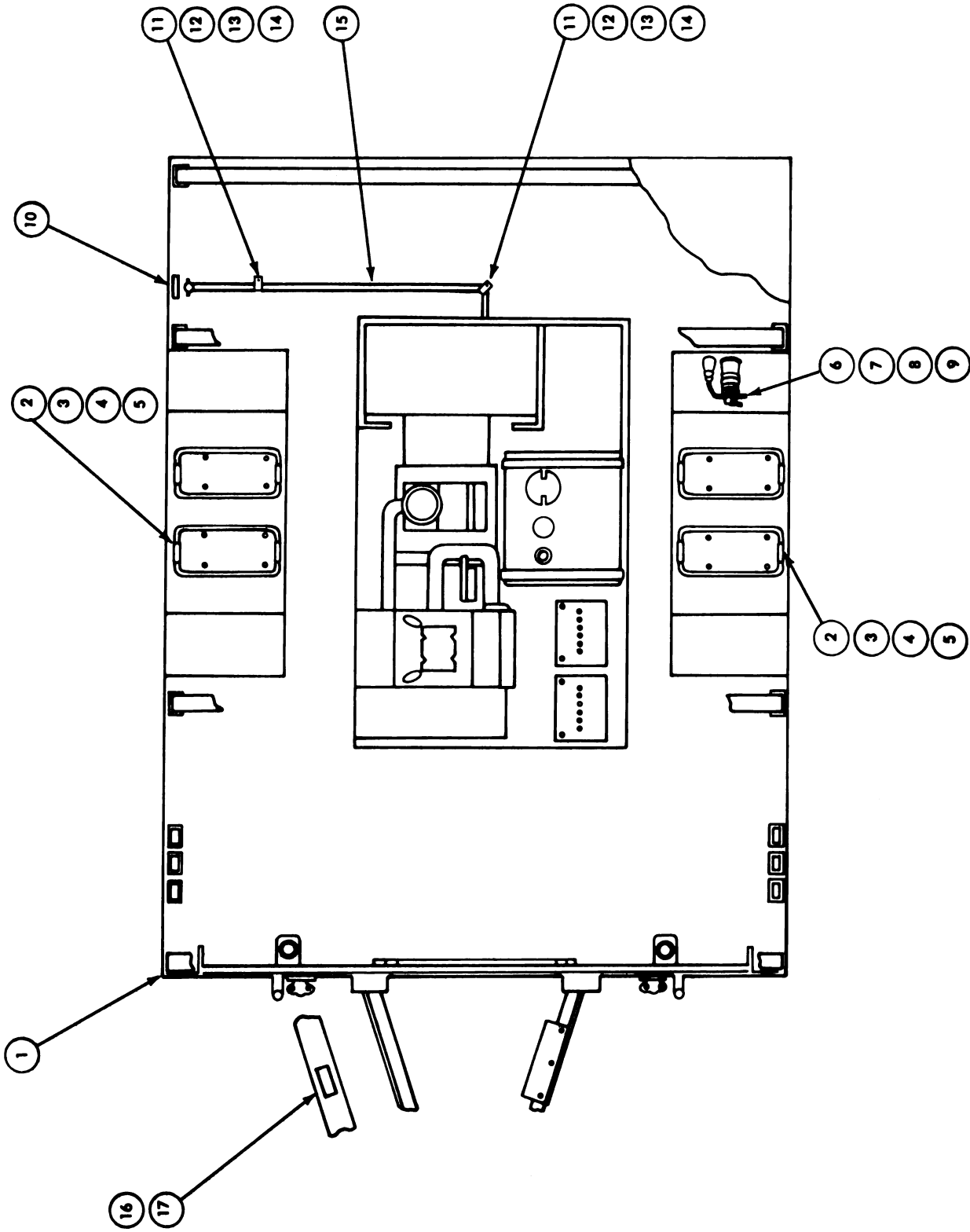


Figure 12-3 Generator Set, Top View, PU 751/M

(1) ILLUSTRATION		(2) SNR CODE	(3) NATIONAL STOCK NUMBER	(4) PCSN	(5) PART NUMBER	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.							
12-2	1	XNFFF		97403	13221E7325	TRAILER	EA	1
12-2	2	XNFFS		96906	MS53052-1	BRACKET ASSEMBLY	EA	2
12-2	3	FAOSS	5310-00-269-3213	96906	MS90725-62	SCREW, CAP HEX HD	EA	16
12-2	4	FAOSS	5310-00-090-6004	96906	MS27103-14	WASHER, FLAT	EA	32
12-2	5	FAOSS	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	16
12-2	6	FAOSS	4210-00-555-0037	19207	10016537	EXTINGUISHER, FIRE	EA	1
12-2	7	FAOSS	5305-00-060-0502	96906	MS90725-6	SCREW, CAP, HEX HD	EA	12
12-2	8	FAOSS	5310-00-809-4050	96906	MS27103-10	WASHER, FLAT	EA	19
12-2	9	FAOSS	5310-00-000-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	15
12-2	10	XBOSS	9905-01-005-7703	97403	13205B4910	PLATE, ID GROUND	EA	1
12-2	11	FAOSS	5340-00-150-1650	17773	11176106-5	CLAMP, LOOP	EA	2
12-2	12	PAPSS	5305-00-900-7435	96906	MS35207-264	SCREW, MACHINE	EA	2
12-2	13	PAPSS	5310-00-014-5050	96906	MS27103-42	WASHER, FLAT	EA	4
12-2	14	PAPSS	5310-00-077-5797	96906	MS21044M3	NUT, SELF-LOCKING	EA	2
12-2	15	MOOSS		97403	13221E7329	WIRE, GROUND	EA	1
12-2	16	XBOSS		97403	13216E7604-43	PLATE, IDENT	EA	1
12-2	17	FAOSS	5305-00-253-5610	96906	MS21310-20	SCREW, DRIVE	EA	4

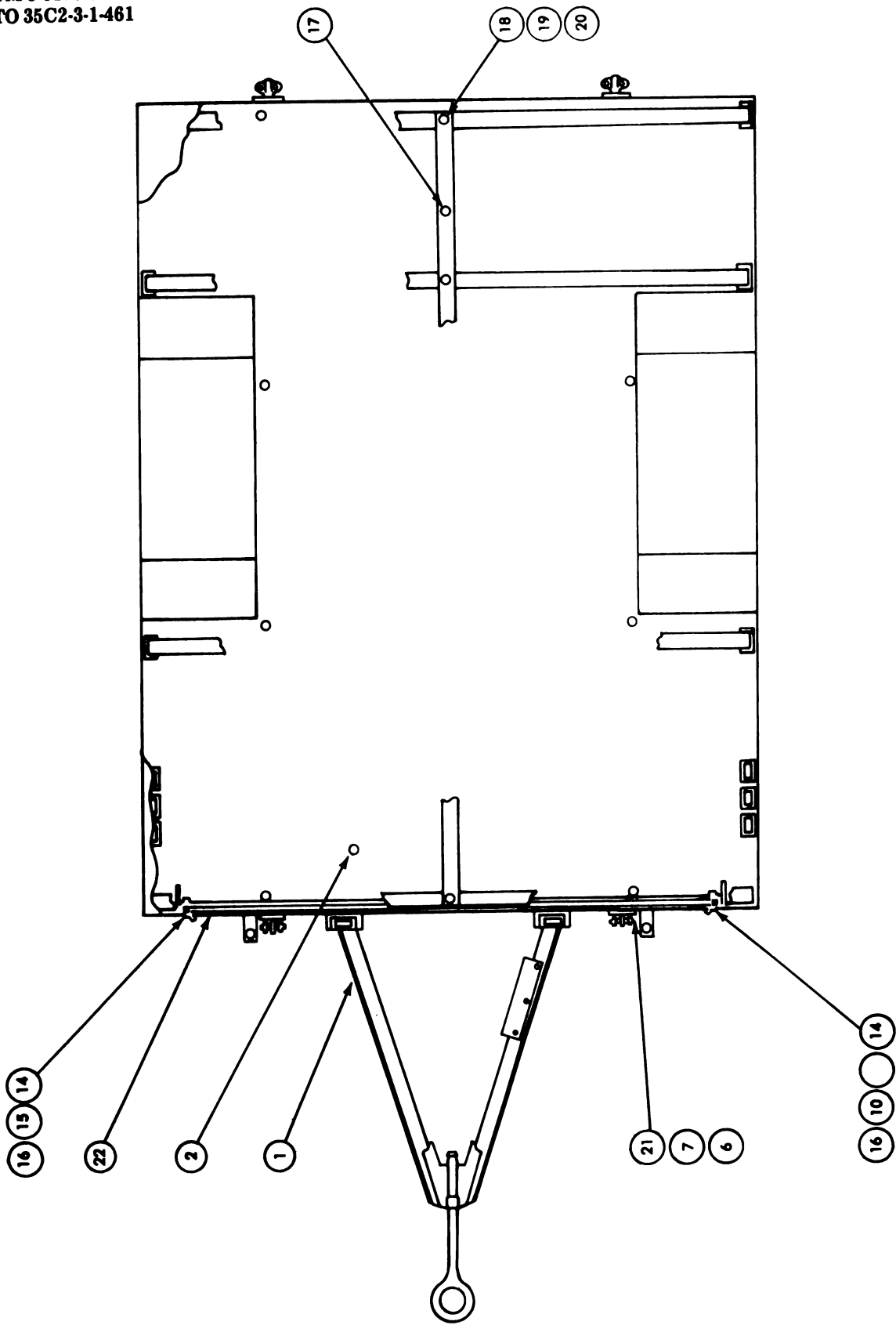


Figure 12-3. Trailer, Side, Top, and Rear Views (Sheet 1 of 3)

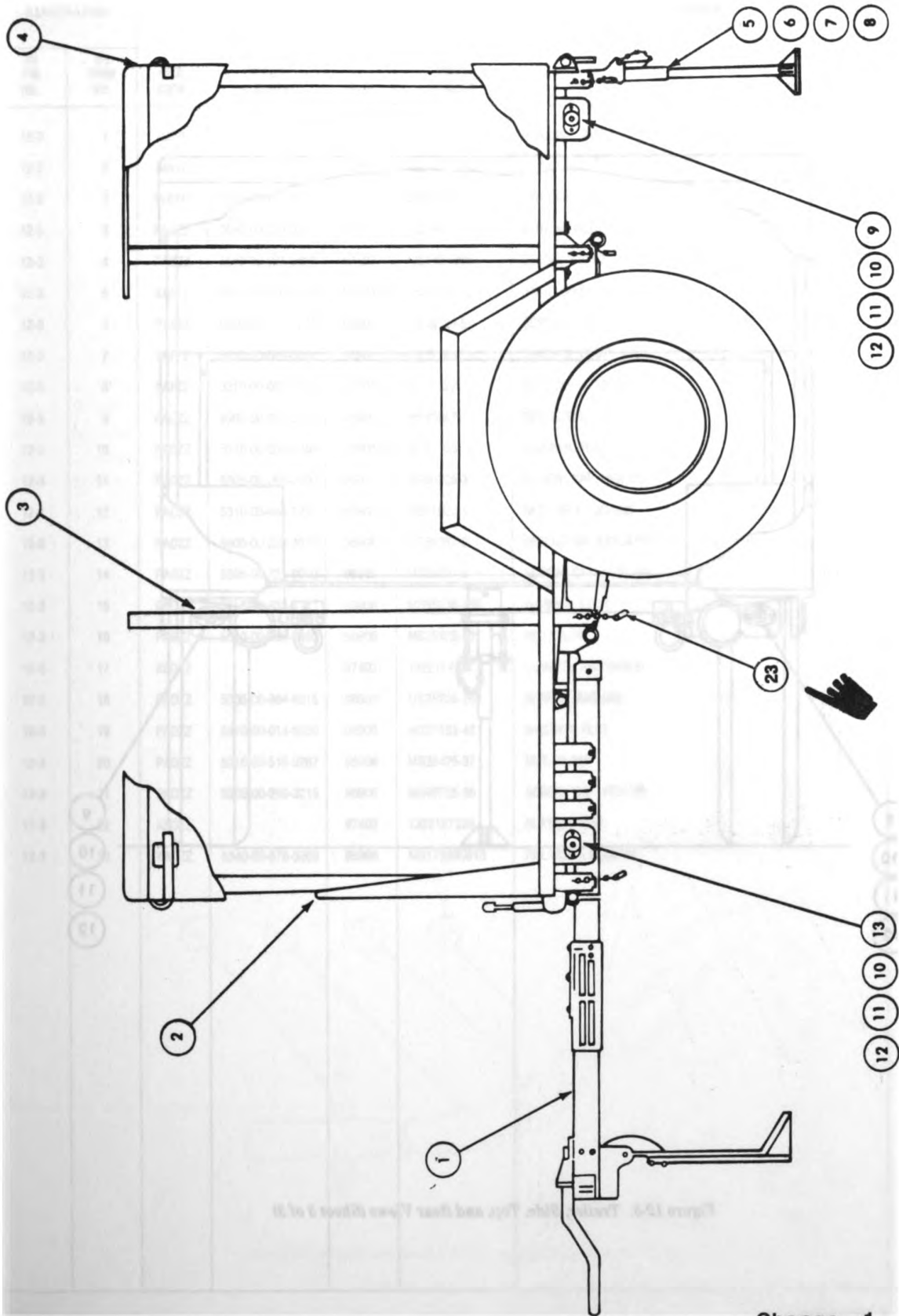


Figure 12-3. Trailer, Side, Top, and Rear Views (Sheet 2 of 3)

Change 1

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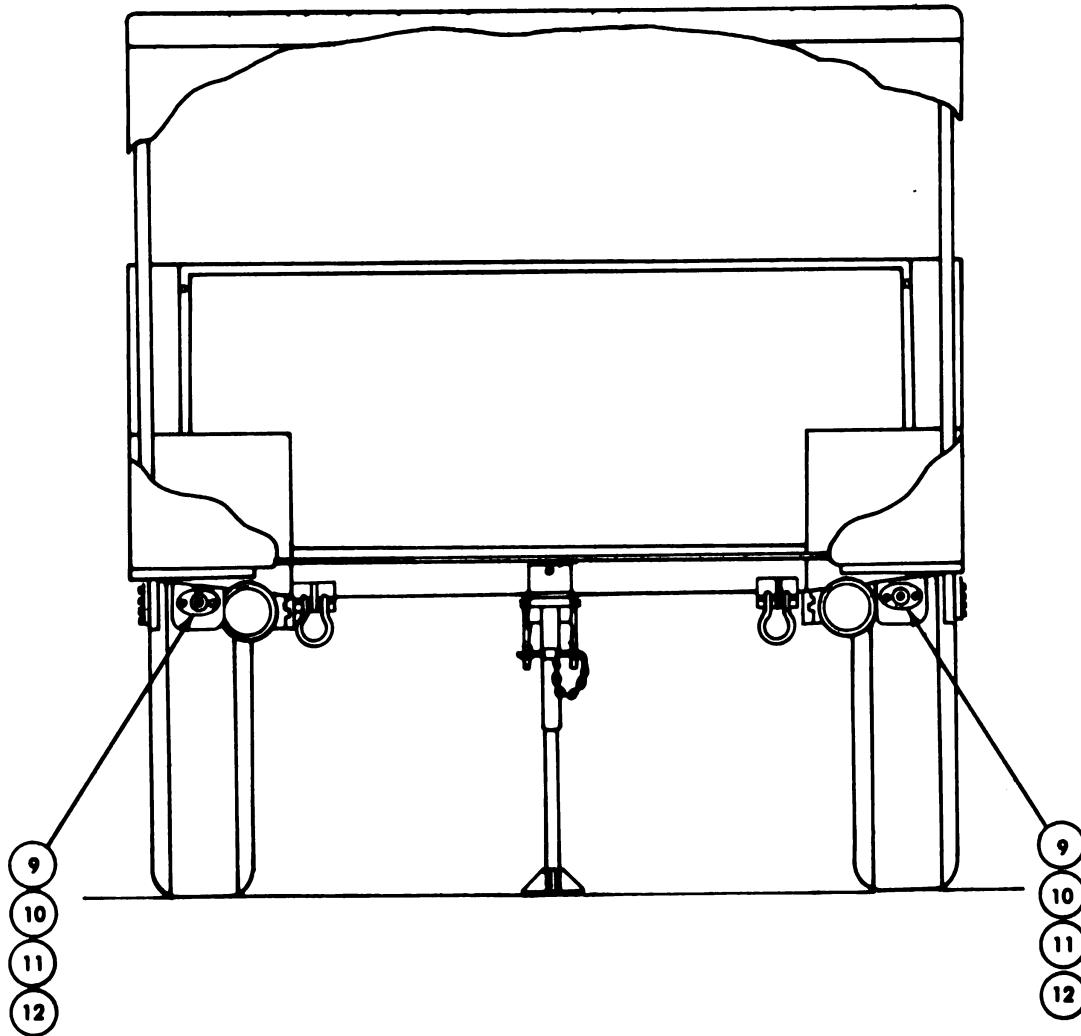


Figure 12-3. Trailer, Side, Top, and Rear Views (Sheet 3 of 3)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCN	PART NUMBER	USABLE ON CODE	U/M	
12-3	1	XBFF		97403	13221E7327	CHASSIS, TRAILER	EA	1
12-3	2	XBFF		97403	13221E7326	BODY, TRAILER	EA	1
12-3	2	P0FFD	2330-01-101-8434	19207	8750054	CHASSIS, TRAILER	EA	1
12-3	3	PAOZZ	2540-00-926-0894	97403	13214E1218	BOW, VEHICLE	EA	4
12-3	4	PAOZZ	2540-00-926-0893	97403	13214E1219	COVER, FITTED	EA	1
12-3	5	XBFFZ	2590-00-420-8929	97403	13214E1208	JACK, LEVELING	EA	1
12-3	6	PAFZZ	5305-00-269-3213	98906	MS90725-62	SCREW, CAP, HEX HD	EA	3
12-3	7	PAFZZ	5310-00-080-8004	98906	MS27183-14	WASHER, FLAT	EA	32
12-3	8	PAFZZ	5310-00-087-4652	98906	MS51922-17	NUT, SELF-LOCKING	EA	29
12-3	9	PAOZZ	9905-00-205-2795	98906	MS35387-1	REFLECTOR	EA	4
12-3	10	PAOZZ	5310-00-809-4058	98906	MS27183-10	WASHER, FLAT	EA	16
12-3	11	PAOZZ	5305-00-068-0500	98906	MS90725-3	SCREW, CAP, HEX HD	EA	12
12-3	12	PAOZZ	5310-00-088-1251	98906	MS51922-1	NUT, SELF-LOCKING	EA	12
12-3	13	PAOZZ	9905-00-202-3639	98906	MS35387-2	REFLECTOR, INDICATOR	EA	2
12-3	14	PAOZZ	5305-00-721-9010	98906	MS35307-314	SCREW, CAP, HEX, HD	EA	2
12-3	15	PAOZZ	5310-00-933-8121	98906	MS35338-139	WASHER, LOCK	EA	2
12-3	16	PAOZZ	5310-00-080-8495	98906	MS35425-39	NUT, PLAIN	EA	2
12-3	17	XBOZZ		97403	13221E4799	LUMBER, HARDWOOD	EA	1
12-3	18	PAOZZ	5305-00-884-8215	98906	MS35206-288	SCREW, MACHINE	EA	4
12-3	19	PAOZZ	5310-00-014-5850	98906	MS27183-42	WASHER, FLAT	EA	8
12-3	20	PAOZZ	5310-00-515-9267	98906	MS35425-37	NUT, PLAIN	EA	4
12-3	21	PAOZZ	5305-00-269-3215	98906	MS90725-65	SCREW, CAP, HEX HD	EA	26
12-3	22	XBOZZ		97403	13221E7328	PLATE, FRONT	EA	1
12-3	23	PAOZZ	5340-00-878-5289	98906	MS17990C813	PIN, QUICK RELEASE	EA	12

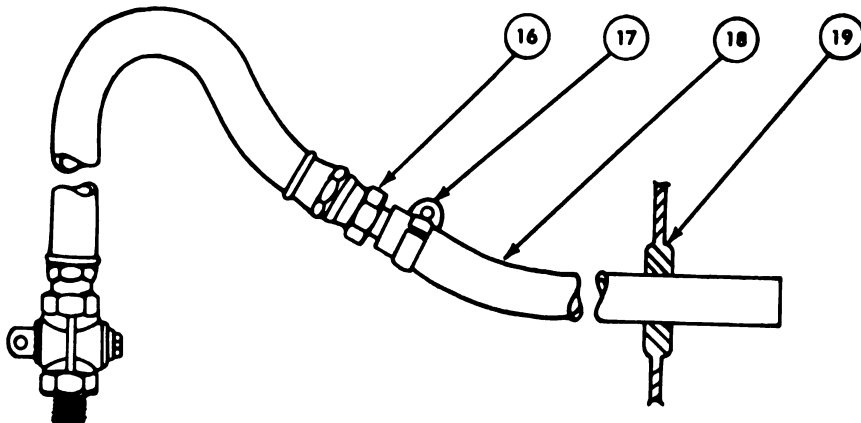
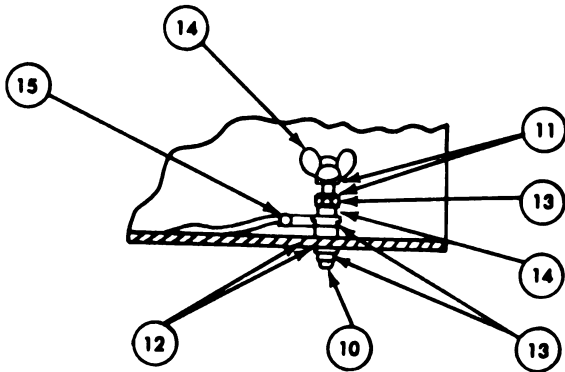
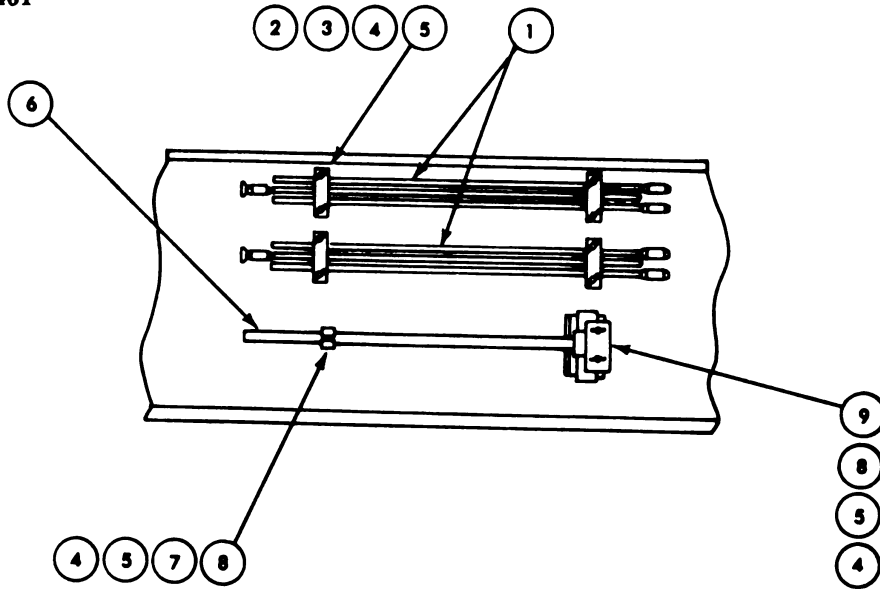


Figure 12-4 PU 761/M Accessory Mounting, Ground Stud, and Engine Oil Drain

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FBCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
12-4	1	PAOXX	5975-00-878-3791	07464	3598	ROD, GROUND	EA	2
12-4	2	XBOXX	2590-00-932-7298	97403	13212E3617	CARRIER, ROD	EA	4
12-4	3	PAOXX	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEX HD	EA	8
12-4	4	PAOXX	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	11
12-4	5	PAOXX	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	11
12-4	6	PAOXX	5120-00-251-4489	81348	GGGH86	HAMMER, HAND	EA	1
12-4	7	XBOXX	5340-00-914-2578	97403	13214E1213-1	CLIP, SPRING	EA	1
12-4	8	PAOXX	5305-00-225-3839	96906	MS90725-8	SCREW, CAP, HEX HD	EA	3
12-4	9	XBOXX	5340-00-999-6277	97403	13214E1214	BRACKET, ANGLE	EA	1
12-4	10	XDOXX		97403	13214E1223	STUD, CONTINUOUS	EA	1
12-4	11	PAOXX	5310-00-187-2413	88044	AN961-616	WASHER, FLAT	EA	4
12-4	12	PAOXX	5310-00-913-9776	96906	MS35335-91	WASHER, LOCK	EA	2
12-4	13	PAOXX	5310-01-026-5824	96906	MS16203-39	NUT, PALIN HEXAGON	EA	3
12-4	14	PAOXX	5310-00-543-4717	96906	MS35425-28	NUT, PLAIN	EA	1
12-4	15	PAOXX	5940-00-115-4992	96906	MS20659-110	TERMINAL, LUG	EA	1
12-4	16	PAOXX	4730-00-804-8416	96906	MS24399-20	REDUCER TUBE	EA	1
12-4	17	PAOXX	4730-00-908-3194	96906	MS35842-11	CLAMP, HOSE	EA	1
12-4	18	PAOXX	4720-00-809-2889	03481	CS4720-0018FR	HOSE, NONMETALLIC	FT	1

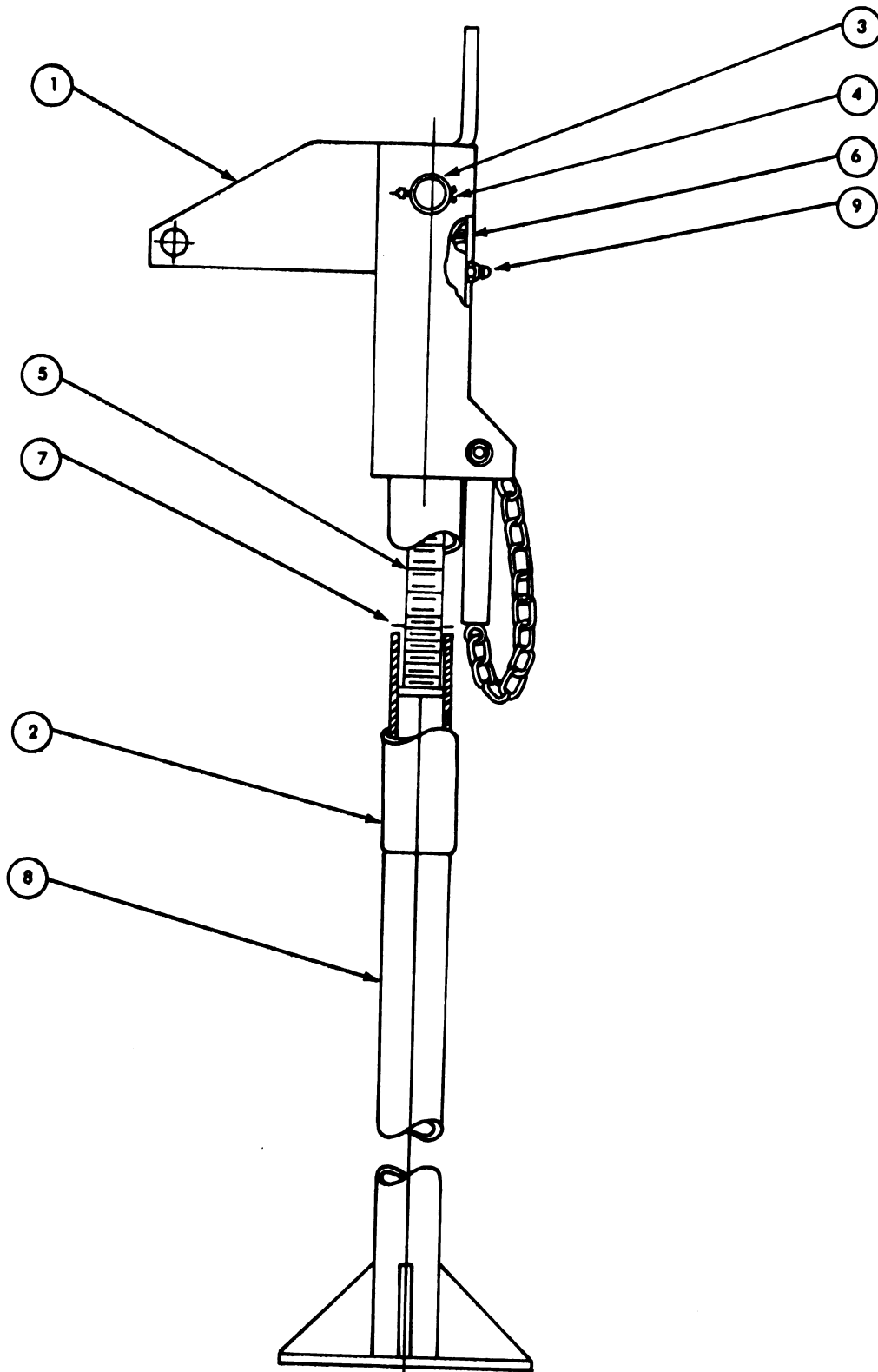


Figure 12-5 Trailer Leg Prop PU761/M

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
12-5	1	XBOZZ		97403	13214E1207	BRACKET	EA	1
12-5	2	XBOZZ	2590-00-453-8977	97403	13214E1208	LEG	EA	1
12-5	3	XBOZZ	5315-01-162-0143	97403	13214E1209	SHAFT	EA	1
12-5	4	PAOZZ	5315-00-839-5822	96906	MS24665-353	PIN, COTTER	EA	2
12-5	5	XBOZZ		97403	13214E1210	SCREW	EA	1
12-5	6	XBOZZ	5315-00-838-4584	96906	MS16562-66	PIN, SPRING	EA	1
12-5	7	PAOZZ	5310-01-149-0869	97403	13214E1211	NUT	EA	1
12-5	8	XBOZZ		97403	13214E1212	LEG BASE	EA	1
12-5	9	PAOZZ	4730-00-172-0049	96906	MS15006-1	FITTING, LUBRICATION	EA	1

12-16/(12-16 blank)

CHAPTER 13
POWER PLANT AN/MJQ-16
Section I. DESCRIPTION AND DATA

13-1. Description.

a. General. Power Plant AN/MJQ-16, NSN 6115-00-033-1395, is made up of two DOD Model MEP-002A Generator Sets mounted on a modified M103A3, 1-1/2 ton, 2- wheel trailer. Each MEP-002A provides 5 KW, 60 Hz, tactical utility power to the load.

b. Function. The AN/MJQ-16 Power Plant is mobile, and may be used to supply power to any system or equipment required up to 5KW and 60 Hz input operation power.

c. List of Equipment. The following items made up the AN/MJQ-16 Power Plant:

Qty	Description
1	Distribution Box (97403) 13220E4459
2	Cable Assembly (97403) 13220E4461
2	Generator Set, 5KW, 60 Hz, DED Model MEP-002A, NSN 6115-00-465-1044

d. The items listed below are auxiliary equipment used with AN/MJQ-16 Power Plant

Qty	Description-List of Equipment	Identifying No.
2	Rod, Ground, Driven, Sectional 9 ft (2.7 m) long	MIL-R-11461
1	Hammer, Hand, Engineers, 8 lb (3.6 kg)	GGG-H-86
1	Extinguisher, Fire, Hand, 2-3/4 lb (1.25 kg)	MIL-E-52031
4	Bracket Assembly, Liquid Container 5 gal. (19 liters)	MS53052-1
1	Trailer, Modified, 1-1/2 ton, Model M103A3	(97403) 13216E7430
1	Hammer, Slide, 36" long, 16" wide NSN 5120-01-013-1676	(97403) 13226E7741

13-2. Tabulated Data.

a. Refer to TM 5-6115-584-12 and -34 technical manuals for additional information concerning DED Generator Set, DOD Model MEP-002A.

ENGINE

Manufacturer	ONAN Division of ONAN Corporation
Model	100-1344
DOD Drawing Number	72-5306
Type	2 Cylinder, 4 Stroke Cycle, Air Cooled Diesel
Rated Horsepower	1800-rpm - 8.9 continuous
Cooling System	Air Cooled
Crankcase Capacity	3.0 quarts (2.8 liters)
Fuel Tank Capacity	6.75 gallons (25.5 liters)
Electrical System	24V, negative ground

GENERATOR

Manufacturer	ONAN Division of ONAN Corporation
DOD Drawing Number	72-5200
Type	Rotating Field Synchronous, brushless
Load Capacity	(1800 rpm) - 5KW @ 60 Hz
Current Rating	(1800 rpm) 52 amps @ 120V, 1 Phase-2 Wire (1800 rpm) 26 amps @ 120/240V, Phase-2 Wire (1800 rpm) 17.3 amps @ 120/208V, 3 Phase-4 Wire
Power Factor	0.8

b. Generator Set Dimensions and Weight:

Length	51 inches (129.5 cm)
Width	32 inches (81.3 cm)
Height	37 inches (94.0 cm)
Weight	(dry) 960 pounds (435.5 kg)

TM 5-6115-594-14&P
TO 35C2-3-1-461

c. Trailer. The two generator sets are mounted on a modified M103A3, 1-1/2 ton, 2-wheel trailer. The trailer can be towed over prepared roads with loads to 5590 pounds (2041 kg) at a maximum speed of 55 mph (88.5 km/h). Over unimproved roads, trails and open rolling terrain the load limit is 5590 pounds (2041 kg) at a maximum speed of 30 mph (48.3 km/h). It will ford hard-bottom water crossing to any depth that can be negotiated by the towing vehicle.

Towing Facilities	Lunette
Towing Vehicle	2-1/2 ton 6x6
Brakes	Air over hydraulic
Handbrakes	Mechanical, handlever controlled
Tires	Pneumatic, normal use 50 psi (3.5 kg/sq cm) In mud, snow and sand use 25 psi (1.75 kg/sq cm)
Voltage (lighting)	24 VDC
Weight	1560 pounds (709 kg)

13-3. Description of Major Components.

a. Vehicle and Mounting Facilities. The M103A3 Trailer described in TM 9-2330-213-14 has been adapted for use with 5KW, 60 Hz, Generator Sets as follows:

(1) *Chassis Body.* A flat bedded body with splash shield has been added to the M103A3 chassis.

(2) *Taillight Assemblies.* The taillight assemblies have been moved from the chassis mounts and mounted on the trailer body.

(3) *Rear Landing Leg Assembly.* A landing leg assembly is provided on the rear cross channel of the chassis.

b. Diesel Engine Generator Sets. Refer to TM 5-6115-584-12 and -34 for operation and maintenance instructions for the 120, 120/240, and 120/208V, 1 Phase-2 Wire, 1 Phase-3 Wire, and 3 Phase-4 Wire, 60 Hz, Air-Cooled, Skid Mounted DOD Generator Set, Model MEP-002A, NSN 6615-00-465-1044 and TM 5-6115-584-24P for repair parts.

c. Distribution Box Assembly. The distribution box assembly is connected between the two generator sets, by use of interconnecting cables. A transfer switch is used to select the desired generator set to supply the load.

Section II. OPERATING INSTRUCTIONS

13-4. Inspecting and Servicing Equipment.

a. Generator Set. Perform the inspection and servicing procedures described in TM 5-6115-584-12.

b. M103A3 Trailer. Perform preliminary services procedures as described in TM 9-2330-213-14.

13-5. Installation.

a. Trailer.

(1) Locate the trailer on as level a surface as possible in order for the generator set to operate efficiently.

(2) Set brakes and block wheels securely to prevent any movement.

(3) Pull leg supports down and adjust length for firm contact with ground.

WARNING

Wheels must be blocked, brakes set and leg supports down in support position before operating equipment.

b. External Fuel Line Connections. When the generator sets are to be operated for long intervals, frequent refilling of the fuel tanks can be eliminated by obtaining fuel from an external source (such as a 55 gallon diesel fuel drum).

(1) Connect the auxiliary fuel line to the generator set auxiliary fuel supply connection located below the control cabinet.

(2) Connect the auxiliary fuel line to the auxiliary fuel source.

(3) Position the fuel selector valve in the auxiliary position.

c. Ground Connections. The generator set may be grounded to an underground metallic water system, a driven metal rod or a buried metal plate. A ground rod must have a minimum diameter of 5/8 inch if solid or 3/4 inch if pipe, and must be driven to a minimum depth of 8 feet. Saturate hole with salt water. A ground plate must have a minimum area of 9 square feet and be buried to a minimum depth of 4 feet. The ground lead must be at least No. 6 AWG copper wire. If a ground rod is used, connect the generator set to ground.

WARNING

Do not operate the generator set until it has been connected to a suitable ground. Serious injury or death by electrocution can result from operating an ungrounded generator set.

13-6. Starting.

- a. Connect load cables to distribution box.**
- b. Perform prestarting procedures described in TM 5-6115-584-12, Chapter 2.**
- c. Position distribution box transfer switch to the desired generator set.**

d. Start the generator set as instructed in Chapter 2 in TM 5-6115-548-12.

13-7. Stopping. Stop the generator set as instructed in Chapter 2 in TM 5-6115-584-12.

13-8. Transferring Generators.

- a. Stop the operating generator set as described in paragraph 13-17.**
- b. Set distribution box transfer switch to the other generator set.**
- c. Start alternate generator set as described in paragraph 13-6, d.**

13-9. Cleaning. The power unit or power plant shall be cleaned by wiping dirt and dust off the equipment with a clean, dry cloth. Also, use a brush on hard-to-remove caked dirt.

Section III. REPAIR PARTS

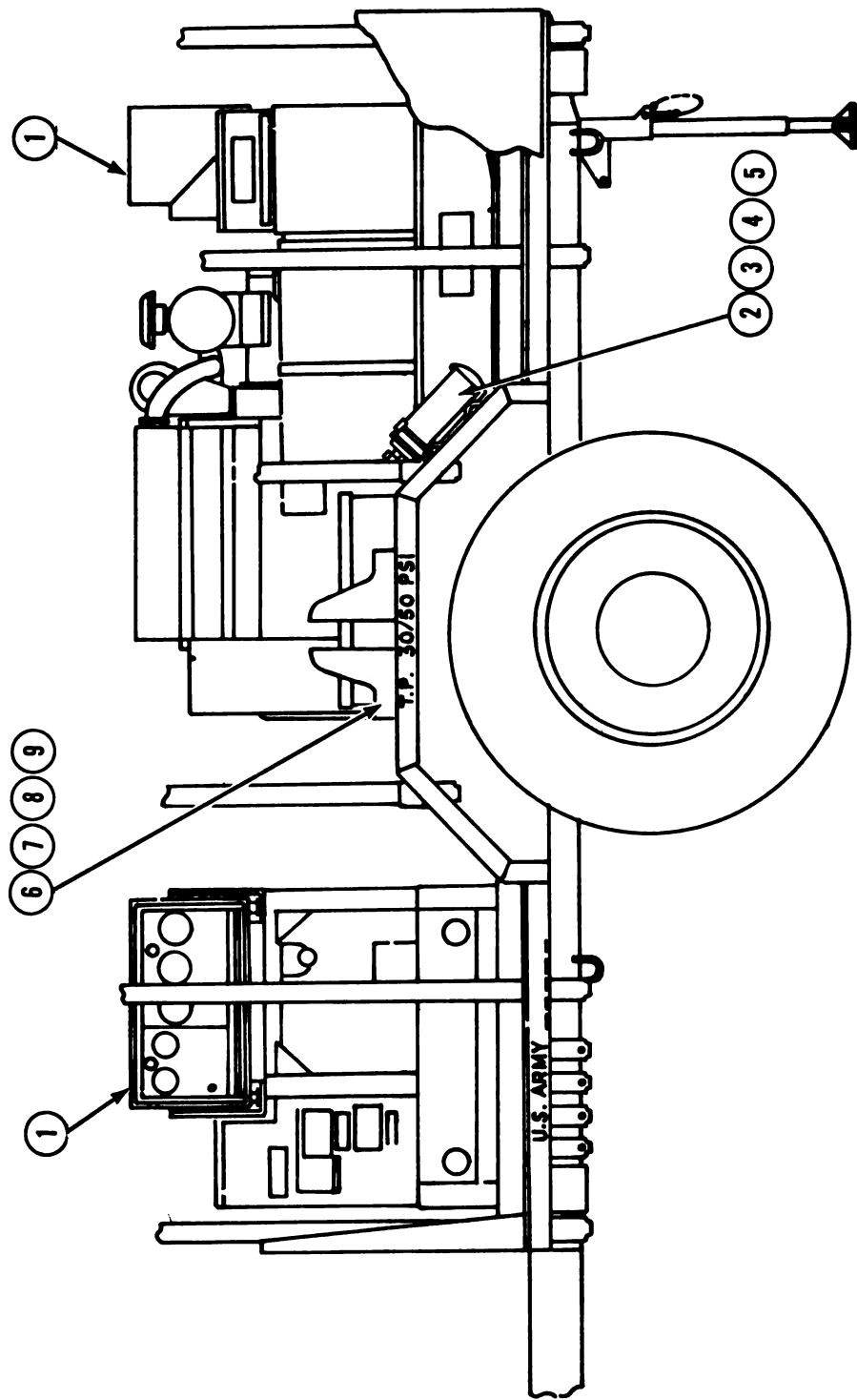


Figure 13-1 Power Plant, Electric, Trailer Mounted, AN/MJQ-16

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) FSCM	(5) PART NUMBER	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
(a) FIG NO	(b) ITEM NO.							
13-1	1	PDPFH	6115-00-465-1044	30554	MEP-002A	GENERATOR SET, DIESEL, 5KW, 60 HZ	EA	2
13-1	2	PAOZZ	4210-00-555-8837	19207	10916537	EXTINGUISHER, FIRE	EA	1
13-1	3	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEX HD	EA	4
13-1	4	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	8
13-1	5	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	4
13-1	6	XBOZZ		96906	MS530552-L	BRACKET ASSY	EA	4
13-1	7	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEX HD	EA	16
13-1	8	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	32
13-1	9	PAOZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	16

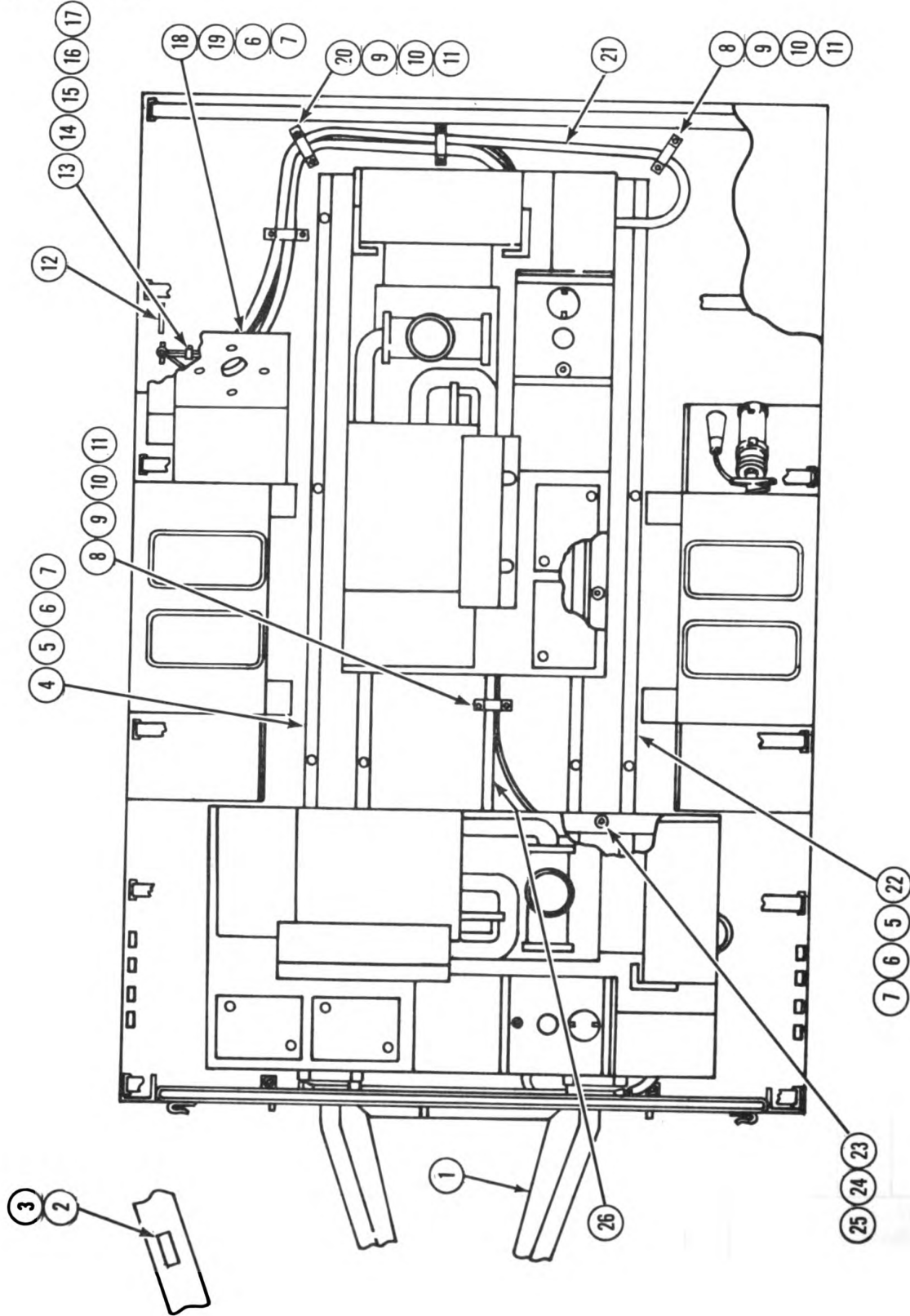


Figure 13-2 Generator Set, Top View

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO.	(B) ITEM NO.	SNR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
13-2	1	XBFFH	2330-00-537-8852	97403	13216E7430	TRAILER, MODIFIED		EA 1
13-2	2	XBOEH		97403	13220E4463-1	PLATE, IDENT		EA 1
13-2	3	PAOEH	5305-00-253-5614	96906	MS21318-20	SCREW, DRIVE		EA 4
13-2	4	XBFEH		97403	13220E4457-2	RAIL, GEN MTG		EA 1
13-2	5	XDFEH		96906	MS90725-11	SCREW, CAP, HEX HD		EA 16
13-2	6	PAFEE	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT		EA 40
13-2	7	PAFEE	5310-00-225-6993	96906	MS51922-33	NUT, SELF-LOCKING		EA 20
13-2	8	XBFEH		97403	13212E3591-7	CLAMP, CABLE		EA 20
13-2	9	PAFEE	5305-00-071-2241	96906	MS90725-10	SCREW, CAP, HEX HD		EA 10
13-2	10	PAFEE	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT		EA 18
13-2	11	PAFEE	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING		EA 14
13-2	12	XBOEH	9905-01-085-7703	97403	13205E4918	PLATE, ID GRD		EA 1
13-2	13	XBFEH		96906	MS21334-4	CLAMP, LOOP		EA 1
13-2	14	PAFEE	5305-00-984-6211	96906	MS35206-264	SCREW, MACHINE		EA 1
13-2	15	PAFEE	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK		EA 1
13-2	16	PAFEE	5310-00-809-8546	96906	MS27183-8	WASHER, FLAT		EA 2
13-2	17	PAFEE	5310-00-934-9758	96906	MS35649-202	NUT, PLAIN, HEX		EA 1
13-2	18	PBFFF		97403	13220E4462	DISTRIBUTION BOX		EA 1
13-2	19	PAFEE	5305-00-044-4153	96906	MS90725-109	SCREW, CAP, HEX HD		EA 4
13-2	20	XBFEH		97403	13212E3591-2	CLAMP, CABLE		EA 3
13-2	21	PAFEE		97403	13220E4461-1	CABLE ASSY		EA 1
13-2		PAFEE	5940-00-557-4344	96906	MS25036-120	TERMINAL LUG		EA 4
13-2	22	XBFEH		97403	13220E4458-1	RAIL, GEN MTG		EA 1
13-2	23	PAFEE	5305-00-071-2070	96906	MS90728-114	SCREW, CAP HEX HD		EA 8
13-2	24	PAFEE	5310-00-584-5272	96906	MS35338-48	WASHER, LOCK		EA 8
13-2	25	PAFEE	5310-01-150-5922	97403	13206E4482-2	WASHER, BEVEL		EA 8
13-2	26	PAFEE		97403	13220E4460-1	CABLE		EA 1
13-2		PAFEE	5940-00-557-4344	96906	MS25036-120	TERMINAL LUG		EA 4
13-2		PAFEE	5970-00-812-1358	81349	M23053/5-111-9	INSULATION SLEEVING		FT V
13-2		PAFEE	5970-00-740-2971	81349	M23053/5-107-9	INSULATION SLEEVING		FT V

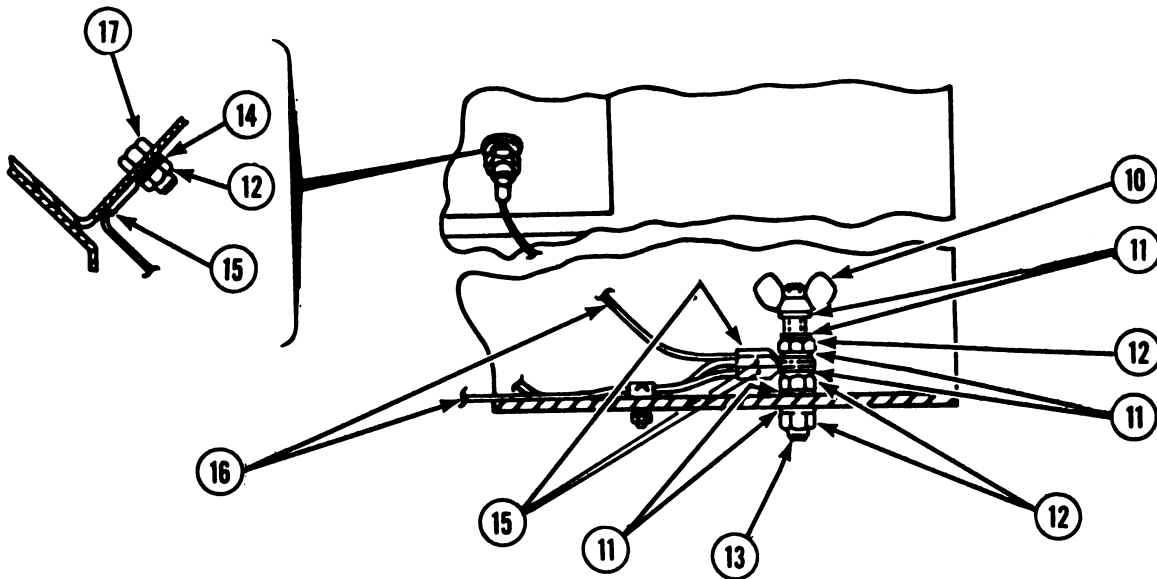
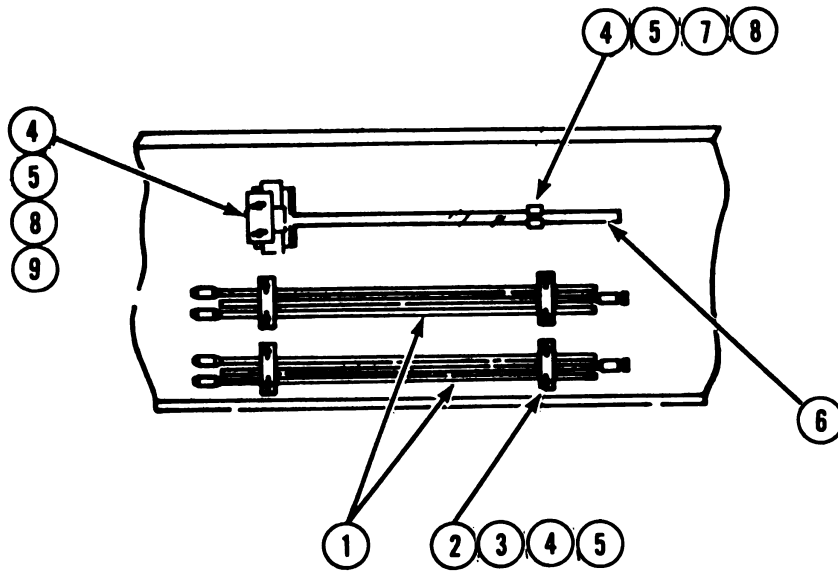


Figure 13-3 Accessory Mounting and Ground Skid

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE
13-3	1	PAOZZ	5975-00-878-3791	81349	MIL-R-1146	ROD, GROUND
13-3	2	XBOZZ	2590-00-932-7298	97403	13212E3617	CARRIER, ROD
13-3	3	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEX HD
13-3	4	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT
13-3	5	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING
13-3	6	PAOZZ	5120-00-251-4489	81348	GGGH86	HAMMER, HAND
13-3	7	XBOZZ	5340-00-914-2578	97403	13214E1213-1	CLIP, SPRING TENSION
13-3	8	PAOZZ	5305-00-225-3839	96906	MS90725-8	SCREW, CAP, HEX HD
13-3	9	XBOZZ	5340-00-999-6277	97403	13214E1214	BRACKET, ANGLE
13-3	10	PAOZZ	5310-00-543-4717	96906	MS35425-28	NUT, PLAIN
13-3	11	PAOZZ	5310-01-004-9129	88044	AN961-6165	WASHER, FLAT
13-3		PAOZZ	5310-00-187-2413	88044	AN961-616	WASHER, FLAT
13-3	12	PAOZZ	5310-01-026-5824	96906	MS16203-39	NUT, PLAIN, HEX HD
13-3	13	XDOZZ		97403	13214E1223	STUD, CONTINUOUS
13-3	14	PAOZZ	5310-00-913-9776	96906	MS35335-91	WASHER, LOCK
13-3	15	PAOZZ	5940-00-115-4992	96906	MS20659-110	TERMINAL, LUG
13-3	16	PAOZZ	6145-00-395-8799	81348	QQ-W-343C06B1T	WIRE, ELECTRICAL
13-3	17	PAOZZ	5305-00-543-4718	96906	MS35309-358	SCREW, CAP, HEX HD

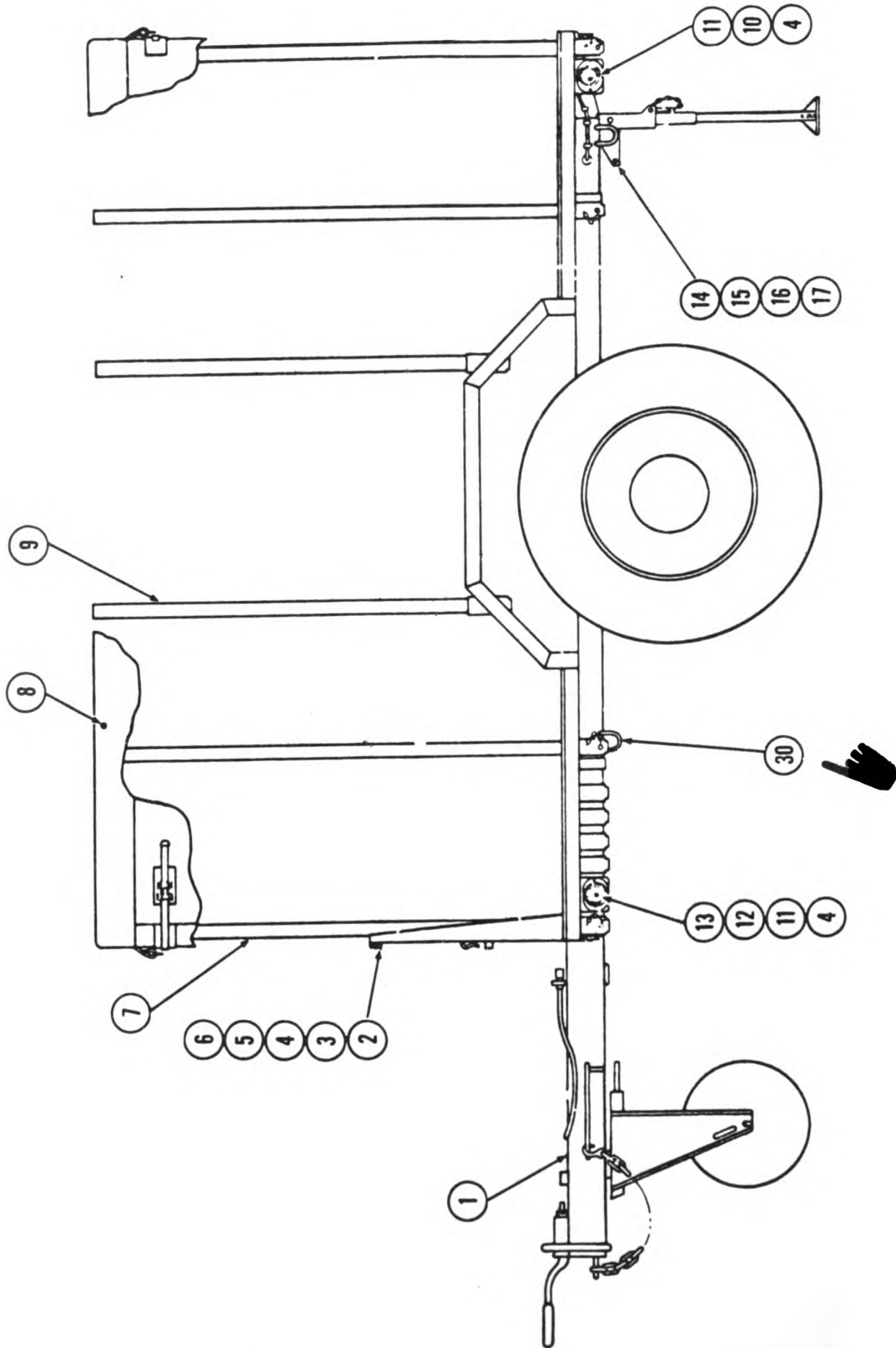


Figure 13-4. Trailer, Side, Top and Rear Views (Sheet 1 of 3)

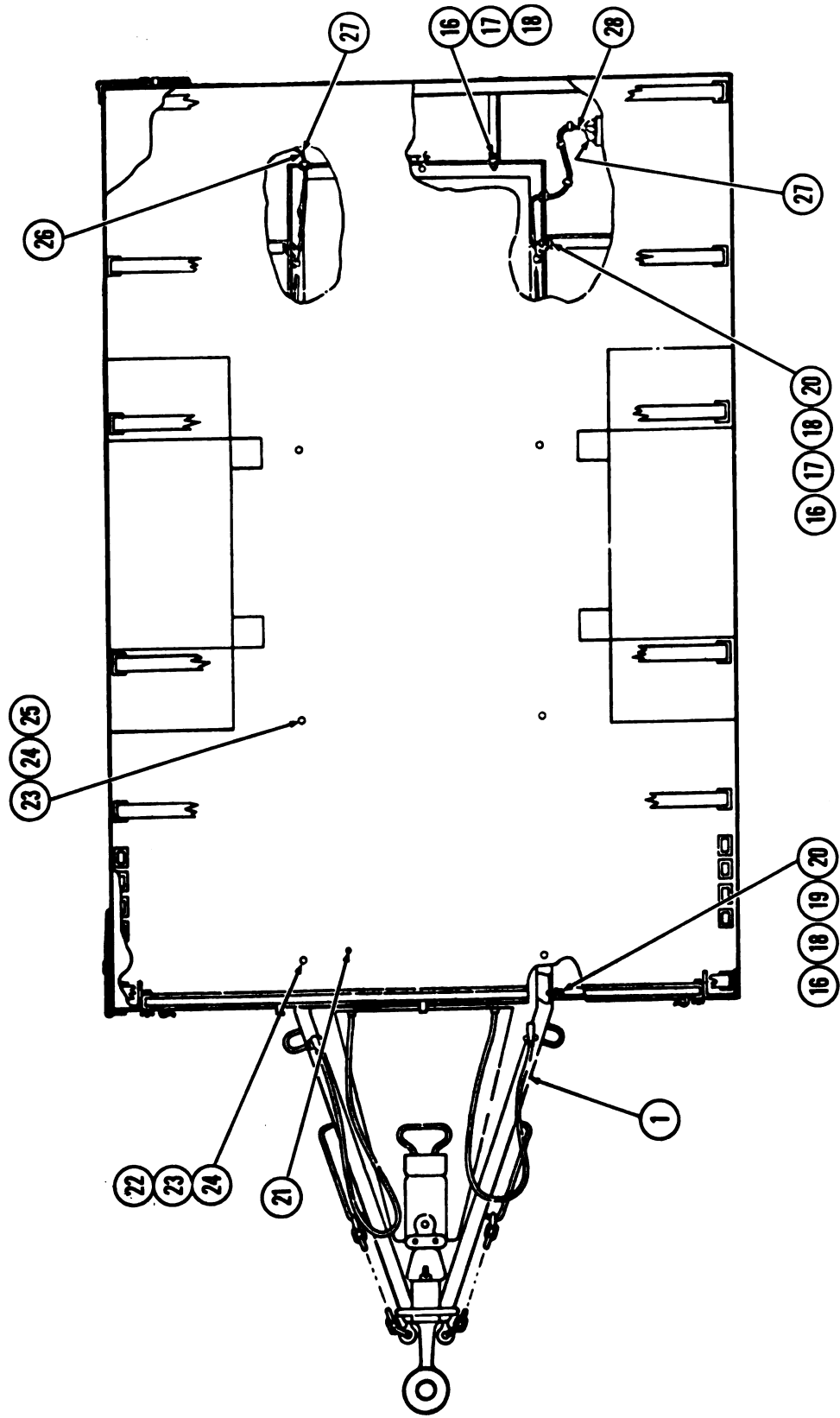


Figure 13-4. Trailer, Side, Top and Rear Views (Sheet 2 of 3)

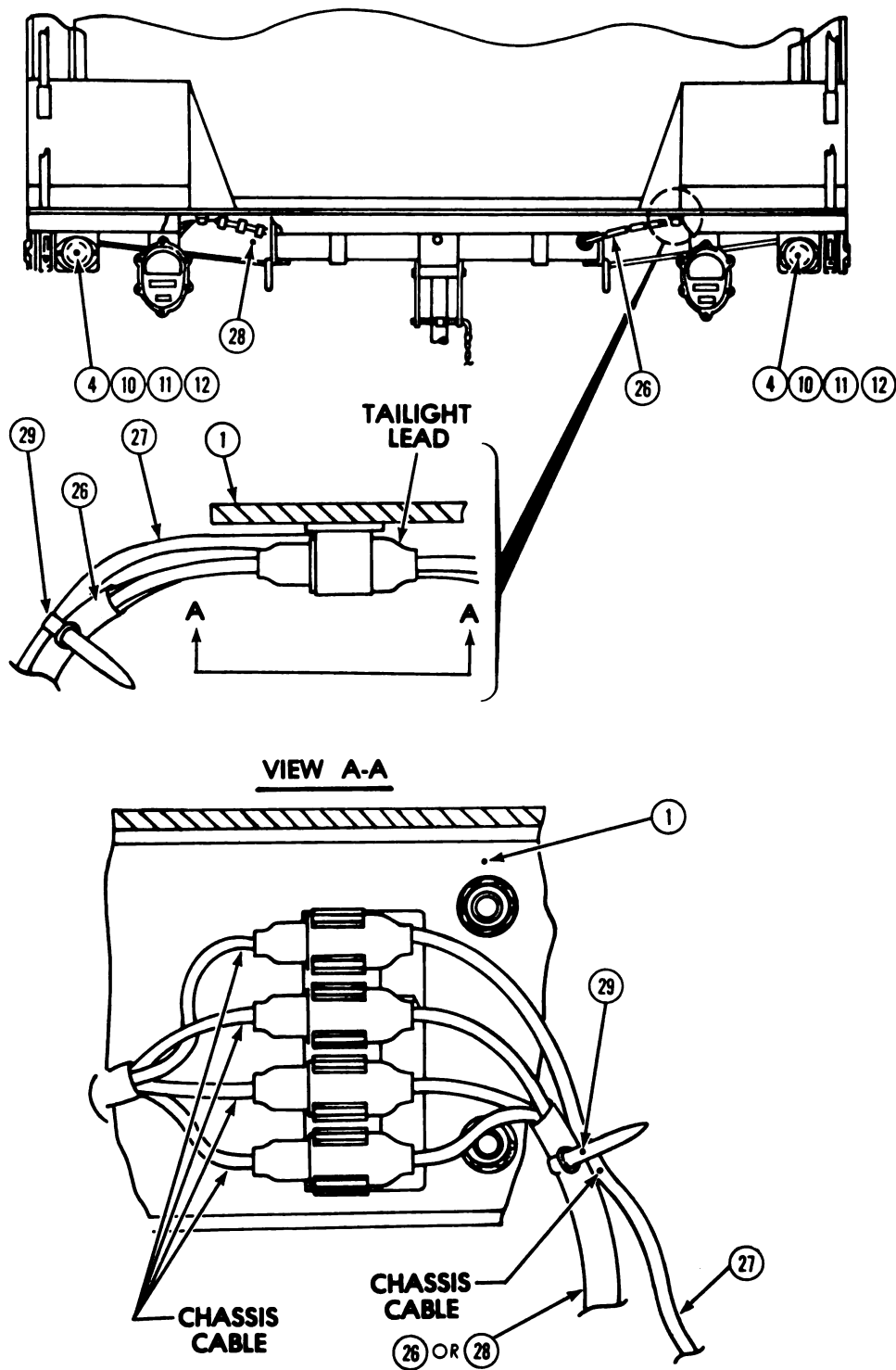


Figure 13-4. Trailer, Side, Top and Rear Views (Sheet 3 of 3)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SNR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	
13-4	1	XBFF		97403	13216E7431	CHASSIS, TRAILER	EA	1
13-4	2	XBOZZ	2510-00-919-7866	97403	13216E7433	PLATE, FRONT	EA	1
13-4	3	PAOZZ	5305-00-721-8010	96906	MS35307-314	SCREW, CAP, HEX HD	EA	2
13-4	4	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	8
13-4	5	PAOZZ	5310-00-933-8121	96906	MS35338-139	WASHER, LOCK	EA	2
13-4	6	PAOZZ	5310-00-080-8495	96906	MS35425-39	NUT, PLAIN	EA	2
13-4	7	PAOZZ	2540-00-924-8478	97403	13212E3597-1	BOW, VEHICULAR	EA	4
13-4	8	PAOZZ	2540-00-459-5946	97403	13216E7434	TARPAULIN	EA	1
13-4	9	PAOZZ		97403	13212E3597-2	BOW, TRAILER	EA	2
13-4	10	PAOZZ		96906	MS35387-1	REFLECTOR, RED	EA	4
13-4	11	PAOZZ	5305-00-088-0500	96906	MS90725-3	SCREW, CAP, HEX HD	EA	12
13-4	12	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	12
13-4	13	PAOZZ	9905-00-202-3639	96906	MS35387-2	REFLECTOR, INDICATOR	EA	2
13-4	14	XBOZZ	2590-00-420-8929	97403	13214E1206	JACK, LEVELING	EA	1
13-4	15	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEX HD	EA	3
13-4	16	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	22
13-4	17	PAOZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	18
13-4	18	PAFZZ	5305-00-006-6574	96906	MS90725-60	SCREW, CAP HEX HD	EA	16
13-4	19	PAFZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK	EA	4
13-4	20	PAFZZ		97403	13212E3590	SHIM	EA	4
13-4	21	XBFF		97403	13216E7432	BODY, TRAILER	EA	1
13-4	22	PAFZZ		97403	13218E0021-41	SCREW, CAP, HEX HD	EA	2
13-4	23	PAFZZ	5310-00-823-8803	96906	MS27183-21	WASHER, FLAT	EA	8
13-4	24	PAFZZ	5310-00-269-4040	96906	MS51922-49	NUT, SELF-LOCKING	EA	8
13-4	25	PAFZZ	5305-00-724-5911	96906	MS90725-163	SCREW, CAP, HEX HD	EA	6
13-4	26	MFFZZ		97403	13216E7479-2	CABLE	EA	1
13-4		PAFZZ	6145-00-705-6681	81349	M13486/7-1	CABLE, SPECIAL	FT	3
13-4		PAFZZ	9905-00-831-1491	96906	MS39020-10	BAND, MARKER	EA	10
13-4		PAFZZ	5935-00-167-7775	96906	MS27144-1	CONNECTOR, PLUG	EA	3
13-4		PAFZZ	5935-00-462-6603	96906	MS27142-2	CONNECTOR, PLUG	EA	3
13-4	27	MFFZZ		97403	13216E7476	LEAD, ELECTRICAL	EA	2
13-4		PAFZZ	6145-00-152-6499	81349	M13286-1-5	WIRE, ELECTRICAL	FT	3
13-4		PAFZZ	9905-00-831-1491	96906	MS39020-10	BAND, MARKER	EA	2
13-4		PAFZZ	5935-00-167-7775	96906	MS27144-1	CONNECTOR, PLUG	EA	1
13-4		PAFZZ	5935-00-462-6603	96906	MS27142-2	CONNECTOR, PLUG	EA	1
13-4	28	MFFZZ		97403	13216E7479-1	CABLE, ASSY	EA	1
13-4		PAFZZ	6145-00-705-6681	81349	M13486/7-1	CABLE, SPECIAL	FT	3
13-4		PAFZZ	9905-00-831-1491	96906	MS39020-10	BAND, MARKER	EA	10
13-4		PAFZZ	5935-00-167-7775	96906	MS27144-1	CONNECTOR, PLUG	EA	3
13-4		PAFZZ	5935-00-462-6603	96906	MS27142-2	CONNECTOR, PLUG	EA	3
13-4	29	PAFZZ		96906	MS3367-1-9	STRAP, TIEDOWN	EA	AR
13-4	30	PAOZZ	5340-00-878-5269	96906	MS17990C613	PIN, QUICK RELEASE	EA	12

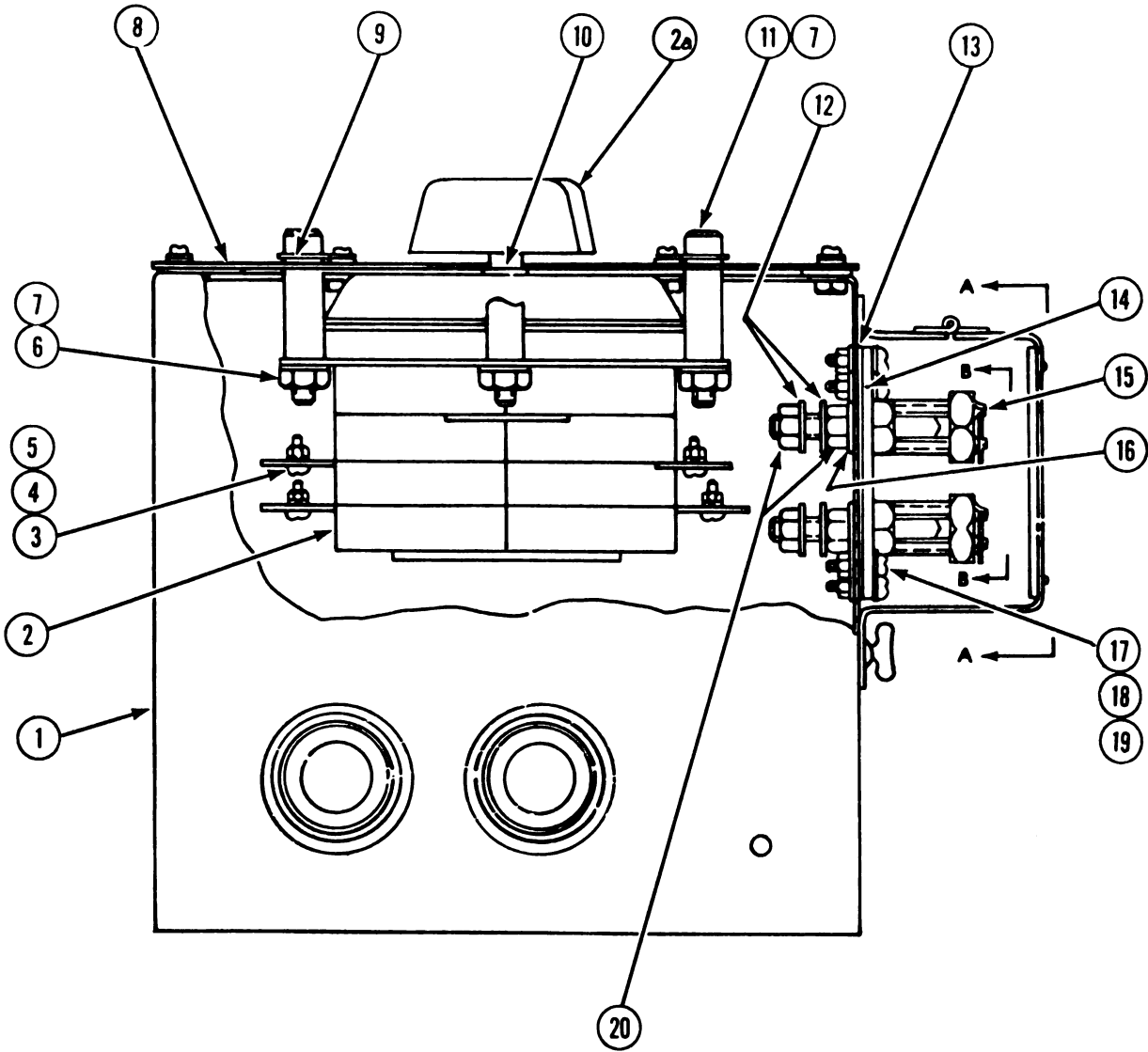


Figure 13-5. Switchbox Assembly (Sheet 1 of 3)

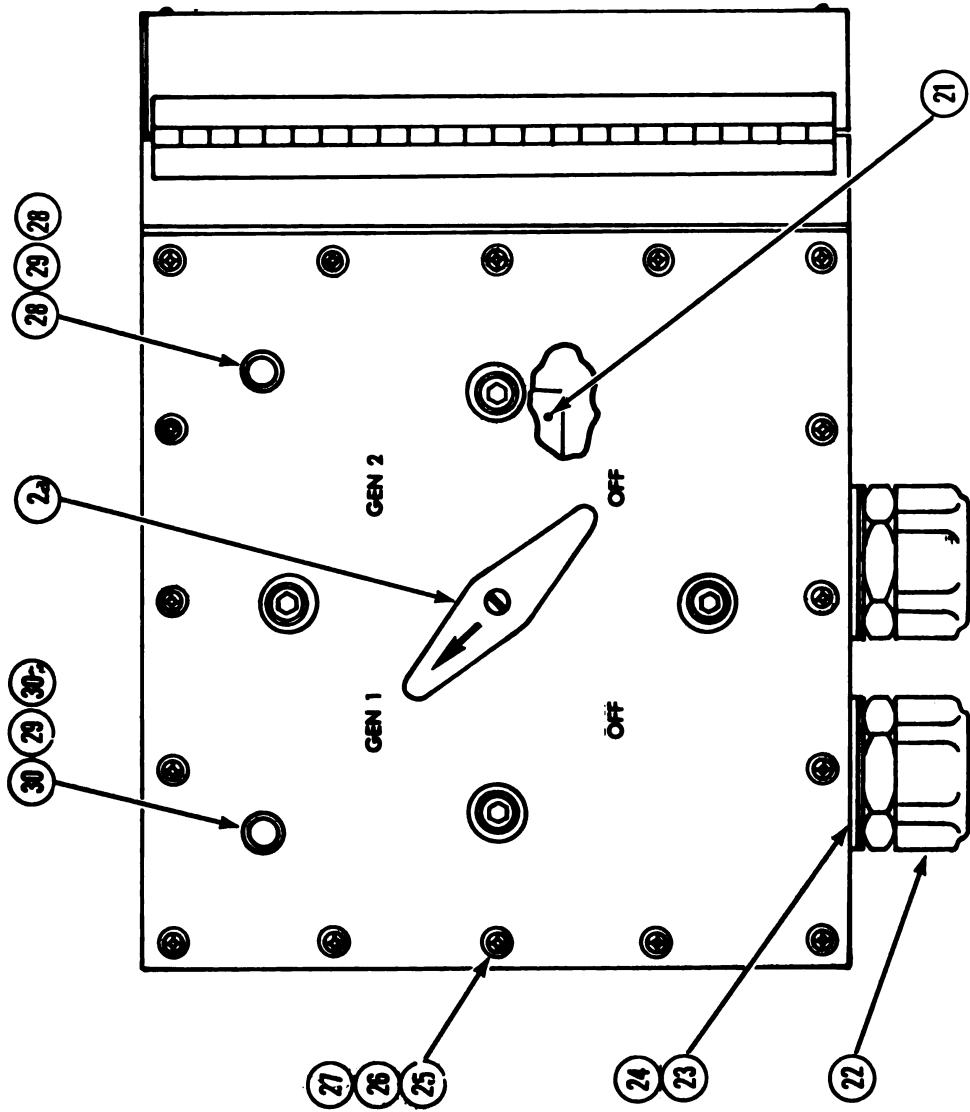


Figure 13-6. Switchbox Assembly (Sheet 2 of 3)

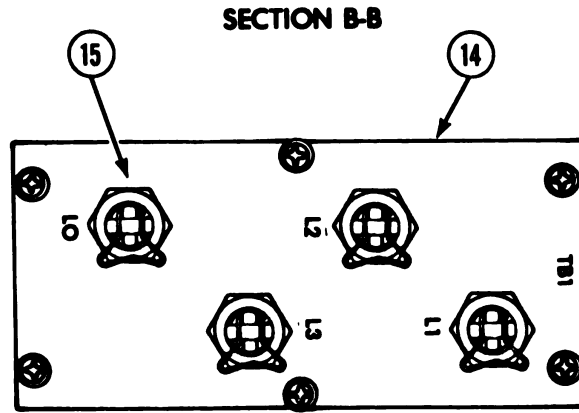
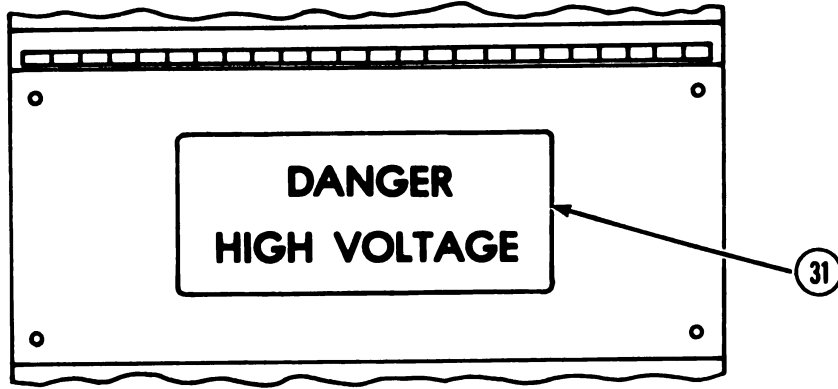
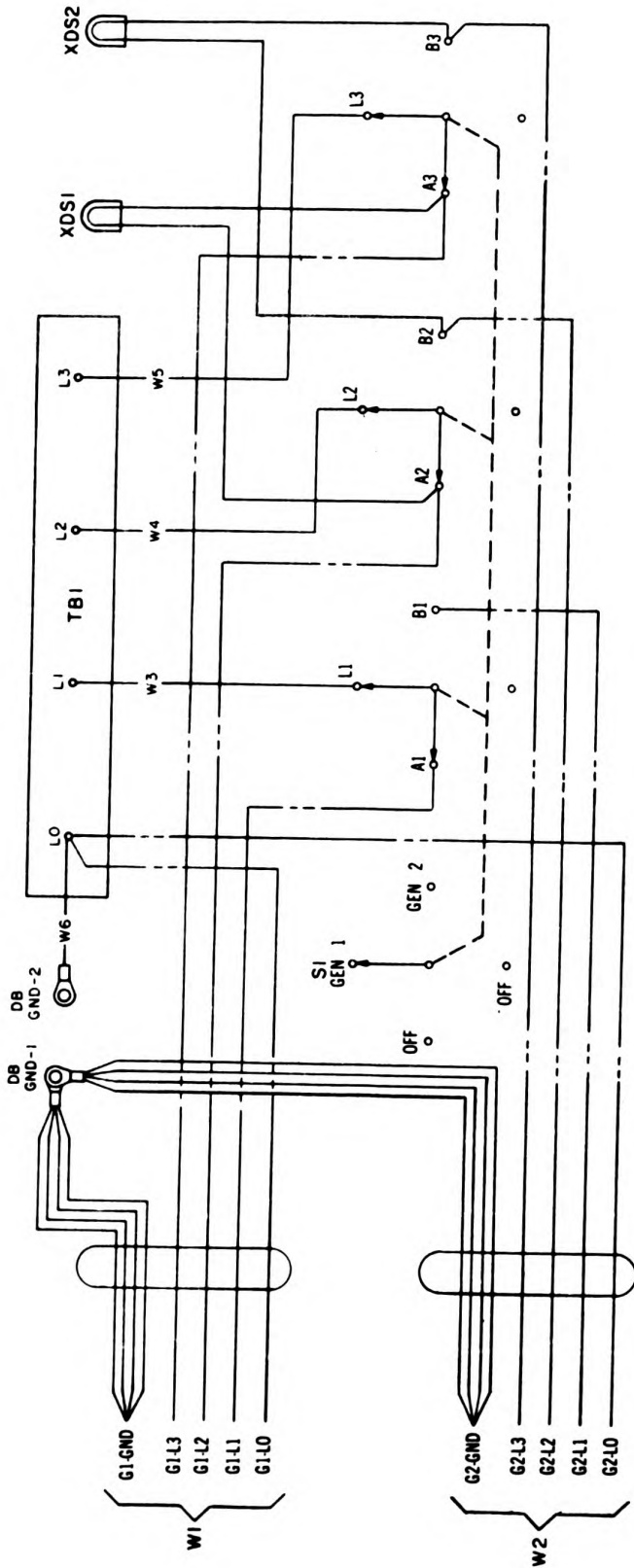


Figure 13-5. Switchbox Assembly (Sheet 3 of 3)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
13-5	1	XBFZZ		97403	13220E4464	BOX, DISTRIBUTION	EA	1
13-5	2	PAFZZ	5930-00-829-3243	97403	13205E5023	SWITCH ROTARY	EA	1
13-5		XBOZZ	5355-01-166-3672	82121	06000-1	KNOB	EA	1
13-5	3	PAFZZ	5305-00-954-9003	96906	MS35215-68	SCREW, MACHINE	EA	9
13-5	4	PAFZZ	5310-00-942-5109	96906	MS35335-89	WASHER, LOCK	EA	9
13-5	5	PAFZZ	5310-00-924-4218	96906	MS51970-1	NUT, PLAIN HEX	EA	9
13-5	6	PAFZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	4
13-5	7	PAFZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	8
13-5	8	XBFZZ	6110-00-133-9160	97403	13212E3603	COVER, TRANSFER	EA	4
13-5	9	PAFZZ	5330-00-684-3420	96906	MS28775-13	PACKING, PREFORMED	EA	4
13-5	10	PAFZZ	5330-00-579-8108	96906	MS28775-11	PACKING, PREFORMED	EA	1
13-5	11	PAFZZ	5305-00-984-5695	96906	MS35206-315	SCREW, MACHINE	EA	4
13-5	12	XDFZZ		88044	AN961-416B	WASHER, FLAT	EA	8
13-5		PAFZZ	5310-00-177-1156	88044	AN961-416T	WASHER, FLAT	EA	8
13-5	13	XBFZZ	5330-01-162-8585	97403	13212E3610	GASKET	EA	1
13-5	14	XBFZZ	5940-00-105-6331	97403	13212E3606	TERMINAL BOARD	EA	1
13-5	15	XDFZZ		96906	MS39347-2	TERMINAL POST	EA	4
13-5	16	PAFZZ	5310-00-680-6823	96906	MS35338-108	WASHER, LOCK	EA	4
13-5	17	PAFZZ	5305-00-984-6214	96906	MS35206-267	SCREW, MACHINE	EA	6
13-5	18	PAFZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK	EA	22
13-5	19	PAFZZ	5310-00-014-5850	96906	MS27183-42	WASHER, FLAT	EA	28
13-5	20	PAFZZ	5310-00-934-9758	96906	MS35649-202	NUT, PLAIN HEX	EA	6
13-5	21	PAFZZ	5310-00-247-7186	96906	MS16203-37	NUT	EA	8
13-5	22	XDFZZ		97403	13212E3587	PLATE, INSTRUCTION	EA	1
13-5	23	XBFZZ		97403	13218E5149-6	STUFFING TUBE	EA	2
13-5	24	XBFZZ	5330-01-150-9792	97403	13218E5140-3	GASKET	EA	2
13-5	25	PAFZZ	5310-01-164-2342	97403	13218E5139-3	WASHER	EA	2
13-5	26	PAFZZ	5305-00-989-7435	96906	MS35207-264	SCREW, MACHINE	EA	16
13-5	27	PAFZZ	6210-00-406-1398	97403	13212E3581-1	LIGHT, INDICATOR	EA	2
13-5		PAFZZ	6145-00-578-7518	81349	M5086/1-18-9	WIRE, ELECTRICAL	FT	V
13-5		PAOZZ	6210-00-246-4888	81349	LC33RN2	LENS, LIGHT	EA	1
13-5		PAOZZ	6240-00-892-4420	81349	M15098/11-001	LAMP LIGHT BULB	EA	1
13-5	28	PAFZZ	5940-00-113-8184	96906	MS25036-150	TERMINAL LUG	EA	4
13-5	29	MFFZZ		97403	13212E3609-1	LEAD, ELECTRIC	EA	1
13-5		PAFZZ		81349	A5086/2-6-5	WIRE, ELECTRICAL	FT	V
13-5		PAFZZ	5940-00-557-4344	96906	MS25036-120	TERMINAL LUG	EA	2
13-5	30	MFFZZ		97403	13212E3609-2	LEAD, ELECTRICAL	EA	1
13-5		PAFZZ	5940-00-557-4344	96906	MS25036-120	TERMINAL LUG	EA	2
13-5	31	XBFZZ		97403	13216E7603	PLATE WARNING	EA	1



WIRING DIAGRAM

DESIGNATION	FIND NO	PART NO	DESCRIPTION
TB1	14 REF	13211E4775	TERMINAL BOARD
SI	2 REF	13226E5024	SWITCH ROTORY 200 AMP
W1	39	13226E5888 1	CABLE ASSEMBLY
W2	40	13226E5858 2	CABLE ASSEMBLY
W3	32	13212E3586 1	LEAD ELECTRICAL
W4	33	13212E3586 2	LEAD ELECTRICAL
W5	34	13212E3586 3	LEAD ELECTRICAL
W6	41	13212E3586 4	LEAD ELECTRICAL
XDS1	31 REF	13212E3581 1	LEAD ELECTRICAL
XDS2	29 REF	13212E3581 2	LIGHT AND WIRE

Figure 19-6 Wiring Diagram, Switchbox

CHAPTER 14

POWER UNIT PU753/M

Section I. DESCRIPTION AND DATA

14-1. Description.

a. General. Power Unit PU753/M, NSN 6115-00-033-1389, is made up of one 10KW, 60 Hz, Tactical Utility, Diesel Engine-Drive (DED) Generator Set, DOD Model MEP-003A, mounted on a modified M116A2, 3/4 ton trailer.

b. Function. The PU751/M is mobile, and may be used to supply power to any system or equipment requiring up to 10KW, and 60 Hz input operating power.

c. The equipment listed below is used with Power Unit PU753/M.

Qty	Description-List of Equipment	Identifying No.
2	Rod, Ground, Driven, Sectional 9 ft (2.7 m) long NSN 5975-00-878-3791	MIL-R-11461
1	Hammer, Hand, Engineers, 8 lb (3.6 kg)	GGG-H-86
1	Extinguisher, Fire, Hand, 2-3/4 lb (1.25 kg)	MIL-E-52031
1	Generator Set, 10 KW, 60 Hz, Military Design, DOD MEP-003A, NSN 6115-00-465-1030	MIL-G-52889/2
4	Bracket Assembly, Liquid Container 5 gal. (19 liters)	MS53052-1
1	Trailer, Modified, Model M116A2, 3/4 ton	(19207) 8750054
1	Hammer, Slide, 36" long, 16" wide NSN 5120-01-013-1676	(97403) 13226E7741

14-2. Tabulated Data.

a. Refer to TM 5-6115-585-12 and -34 technical manuals for additional information concerning DED Generator Set, DOD Model MEP-003A.

ENGINE

Manufacturer	ONAN Division of ONAN Corporation
Model	100-1345
DOD Drawing Number	72-5307
Type	4 Cylinder, 4 Stroke Cycle, Air Cooled Diesel
Rated Horsepower at Cooling System	1800-rpm - 16 continuous Air Cooled
Crankcase Capability	5.5 quarts (5.2 liters)
Fuel Tank Capability	12.5 gallons (47.3 liters)
Electrical System	24V, negative ground

GENERATOR

Manufacturer	ONAN Division of ONAN Corporation
DOD Drawing Number	72-5260

Type	Rotating Field Syn- chronous, brushless
Load Capacity	(1800 rpm) - 10KW @ 60 Hz
Current Rating	(1800 rpm) 104 amps @ 120V, 1 Phase-2 Wire (1800 rpm) 52 amps @ 120/240V, 1 Phase-3 Wire (1800 rpm) 34.7 amps @ 120/208V, 3 Phase-4 Wire
Power Factor	0.8

b. Generator Set Dimensions and Weight:

Length	62 inches (157.5 cm)
Width	32 inches (81.3 cm)
Height	37 inches (94.0 cm)
Weight	(dry) 1220 pounds (553.4 kg)

c. Trailer. The generator set is mounted on a modified M116A1, 3/4 ton 2-wheel trailer. The trailer can be towed over prepared roads with loads to 3590 pounds (1632 kg) at a maximum speed of 55 mph (88.5 km/h). Over unimproved roads, trails and open rolling terrain the load limit is 2840 pounds (1291 kg) at a maximum speed of 30

**TM 5-6115-594-14&P
TO 35C2-3-1-461**

mph (48.3 km/h). It will ford hard-bottomed water crossing to any depth that can be negotiated by the towing vehicle.

Towing Facilities	Lunette
Towing Vehicle	3/4 ton 4x4
Handbrakes	Mechanical, Handlever controlled
Tires	Pneumatic, normal use 25 psi (1.76 kg/sq cm). In mud, snow and sand use 15 psi (1.06 kg/sq cm)
Voltage (lighting)	24 VDC
Weight	1340 pounds (609 kg)

14-3. Description of Major Components.

a. Vehicle and Mounting Facilities.

(1) The M116A1 Trailer described in TM 9-2330-202-14P has been modified for use with the 10KW, 60 Hz Generator Set as follows:

Section II. OPERATING INSTRUCTIONS

14-4. Inspecting and Servicing Equipment.

a. Generator Set. Perform the inspection and servicing procedures described in TM 5-6115-585-12.

b. M116A1 Trailer. Perform the inspection and servicing procedures described in TM 9-2330-202-14P.

14-5. Installation.

a. Trailer.

(1) Locate the trailer on as level a surface as possible in order for the generator set to operate efficiently.

(2) Set brakes and block wheels securely to prevent any movement.

(3) Pull leg supports down and adjust length for firm contact with ground.



Wheels must be blocked, brakes set and leg supports down in support position before operating the equipment.

b. External Fuel Line Connections. When the generator set is to be operated for long intervals, frequent refilling of the fuel tanks can be eliminated by obtaining fuel from an external source (such as a 55 gallon diesel fuel drum).

14-2

(a) **Chassis Body.** A flat bed has been added to the M116A1 chassis.

(b) **Taillight Assemblies.** The taillight assemblies have been moved from the chassis to chassis brackets.

(c) **Rear Landing Leg Assembly.** A landing leg is provided at the rear channel of the frame.

(2) **Generator Set Technical Manuals.** The following technical manuals are applicable to the generator set.

(a) Refer to TM 5-6115-585-12 and -34 for operation and maintenance instructions for the 120, 120/240, and 120/208V, 1 Phase-2 Wire, 1 Phase-3 Wire, and 3 Phase-4 Wire, 60 Hz, Air-Cooled, Skid Mounted DOD Generator Set, Model MEP-003A, NSN 6115-00-465-1030.

(b) Refer to TM 5-6115-585-24P for spare parts and special tools list associated with the generator set.

(1) Connect the auxiliary fuel line to the generator set auxiliary fuel supply connection located below the control cabinet.

(2) Connect the auxiliary fuel line to the auxiliary fuel source.

(3) Position the fuel selector valve in the auxiliary position.

c. Ground Connections. The generator set may be grounded to an underground metallic water system, a driven metal rod or a buried metal plate. A ground rod must have a minimum diameter of 5/8 inch if solid or 3/4 inch if pipe, and must be driven to a minimum depth of 8 feet. Saturate hole with salt water. A ground plate must have a minimum area of 9 square feet and be buried to a minimum depth of 4 feet. The ground lead must be at least No. 6 AWG copper wire. If a ground rod is used, connect the generator set to ground.



Do not operate the generator set until it has been connected to a suitable ground. Serious injury or death by electrocution can result from operating an ungrounded generator set.

14-6. Starting.

a. Perform the prestarting procedures described in paragraph 14-4.

b. Start the generator set as instructed in paragraph 2-4 of TM 5-6115-585-12.

14-7. Stopping. Stop the generator set as instructed in paragraph 2-6 in TM 5-6115-585-12.

14-8. Tiedown Instructions for Shipping Power Units by Railroad Transportation. See Appendix C.

14-9. Cleaning. The power unit or power plant shall be cleaned by wiping dirt and dust off the equipment with a clean, dry cloth. Also, use a brush on hard-to-remove caked dirt.

Section III. REPAIR PARTS

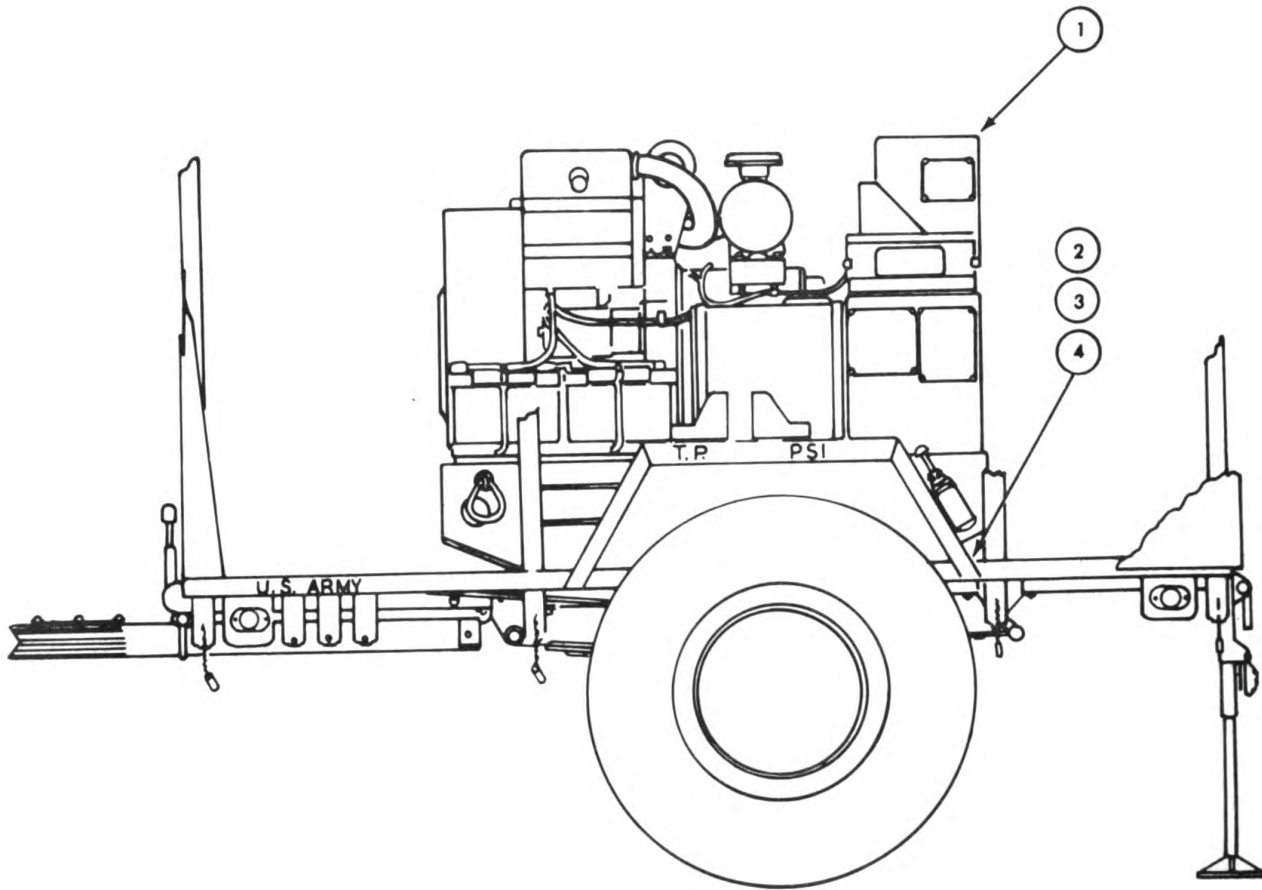


Figure 14-1 Generator Set, PU 753/M

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
14-1	1	PDFHD	6115-00-465-1030	30554	MEP-003A	GENERATOR SET, DIESEL	EA	1
14-1	2	PAPZZ	5305-00-719-5235	96906	MS90727-114	SCREW, CAP, HEXAGON	EA	4
14-1	3	PAPZZ	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT	EA	8
14-1	4	PAPZZ	5310-00-067-9507	96906	MS51922-37	NUT, SELF-LOCKING	EA	4

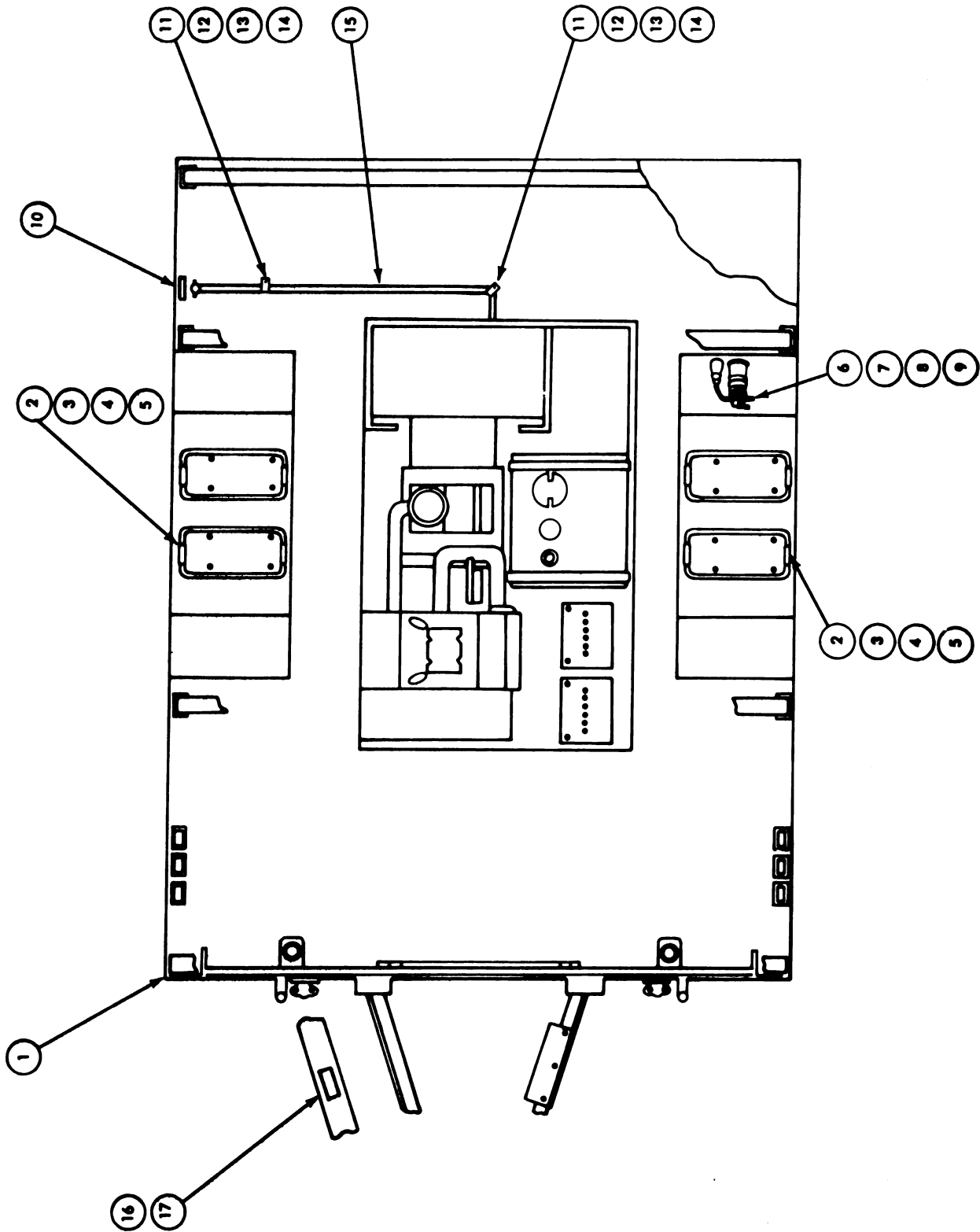


Figure 14-3 Generator Set, Top View

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
14-2	1	XBFFF		97403	13221E7325	TRAILER		EA 1
14-2	2	XBFFE		96906	MS53052-1	BRACKET ASSEMBLY		EA 1
14-2	3	PAFEE	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON		EA 16
14-2	4	PAFEE	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT		EA 32
14-2	5	PAFEE	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING		EA 16
14-2	6	PAOEE	4210-00-555-8837	19207	10916537	EXTINGUISHER, FIRE		EA 1
14-2	7	PAFEE	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEXAGON		EA 12
14-2	8	PAFEE	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT		EA 19
14-2	9	PAFEE	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING		EA 15
14-2	10	XBFEZ	9905-01-085-7703	97403	13205E4918	PLATE ID GROUND		EA 1
14-2	11	XDFEE		96906	MS21333-68	CLAMP, LOOP		EA 2
14-2	12	PAFEE	5305-00-989-7435	96906	MS35207-264	SCREW, MACHINE		EA 2
14-2	13	PAFEE	5310-00-014-5850	96906	MS27183-42	WASHER, FLAT		EA 4
14-2	14	PAFEE	5310-00-877-5797	96906	MS21044M3	NUT, SELF-LOCKING		EA 2
14-2	15	MOOEE		97403	13221E7329	WIRE, GROUND		FT 1
14-2		PAOEE	6145-00-578-6594	81349	M5086/2-6-9	WIRE, ELECTRICAL		FT 5
14-2		PAOEE	5940-00-115-4992	96906	MS20659-110	TERMINAL, LOG		EA 1
14-2	16	XBFEZ		97403	13216E7604-43	PLATE		EA 1
14-2	17	PAFEE	5305-00-253-5614	96906	MS21318-20	SCREW, DRIVE		EA 4

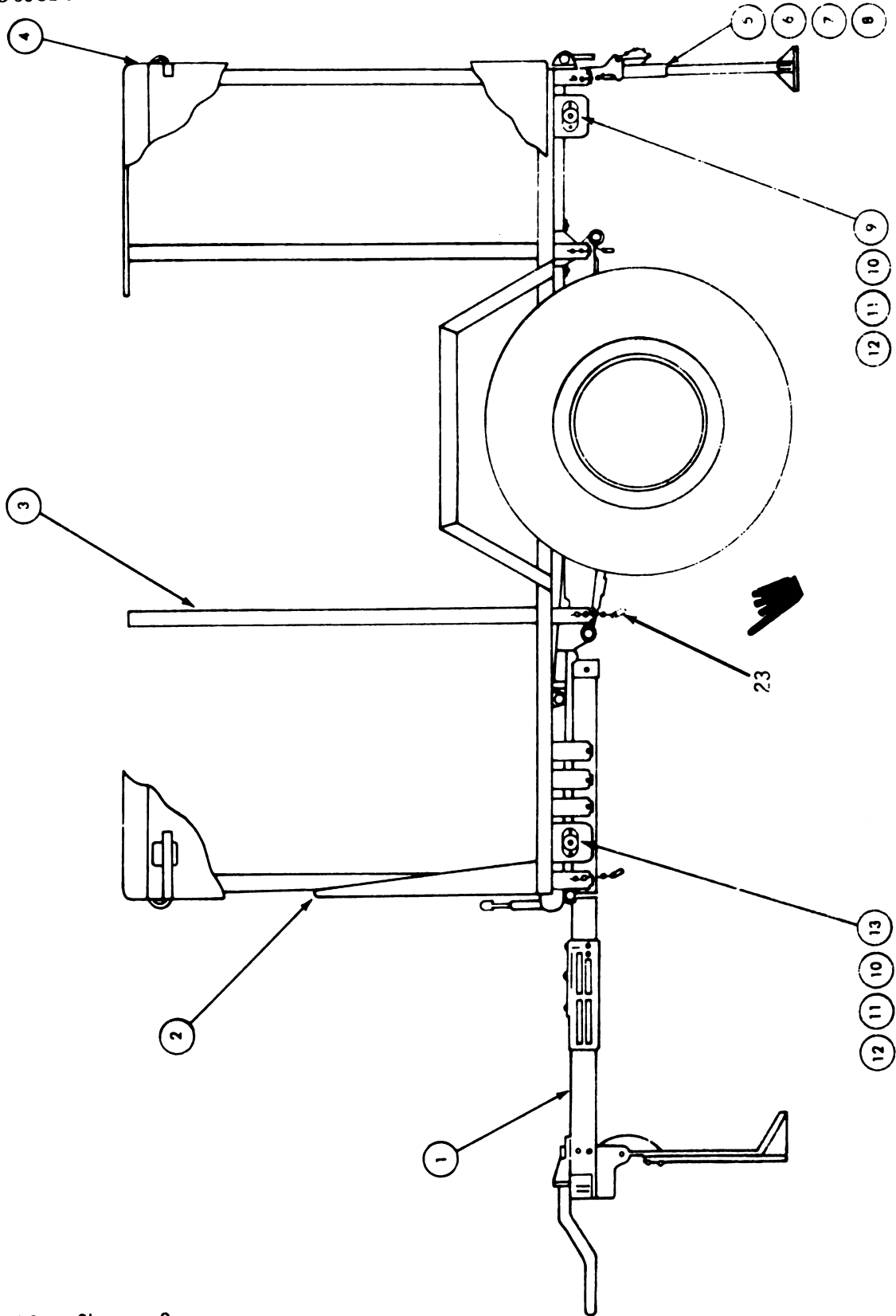


Figure 14-3. Trailer, Side, Top and Rear Views (Sheet 1 of 3)

14-8 Change 2

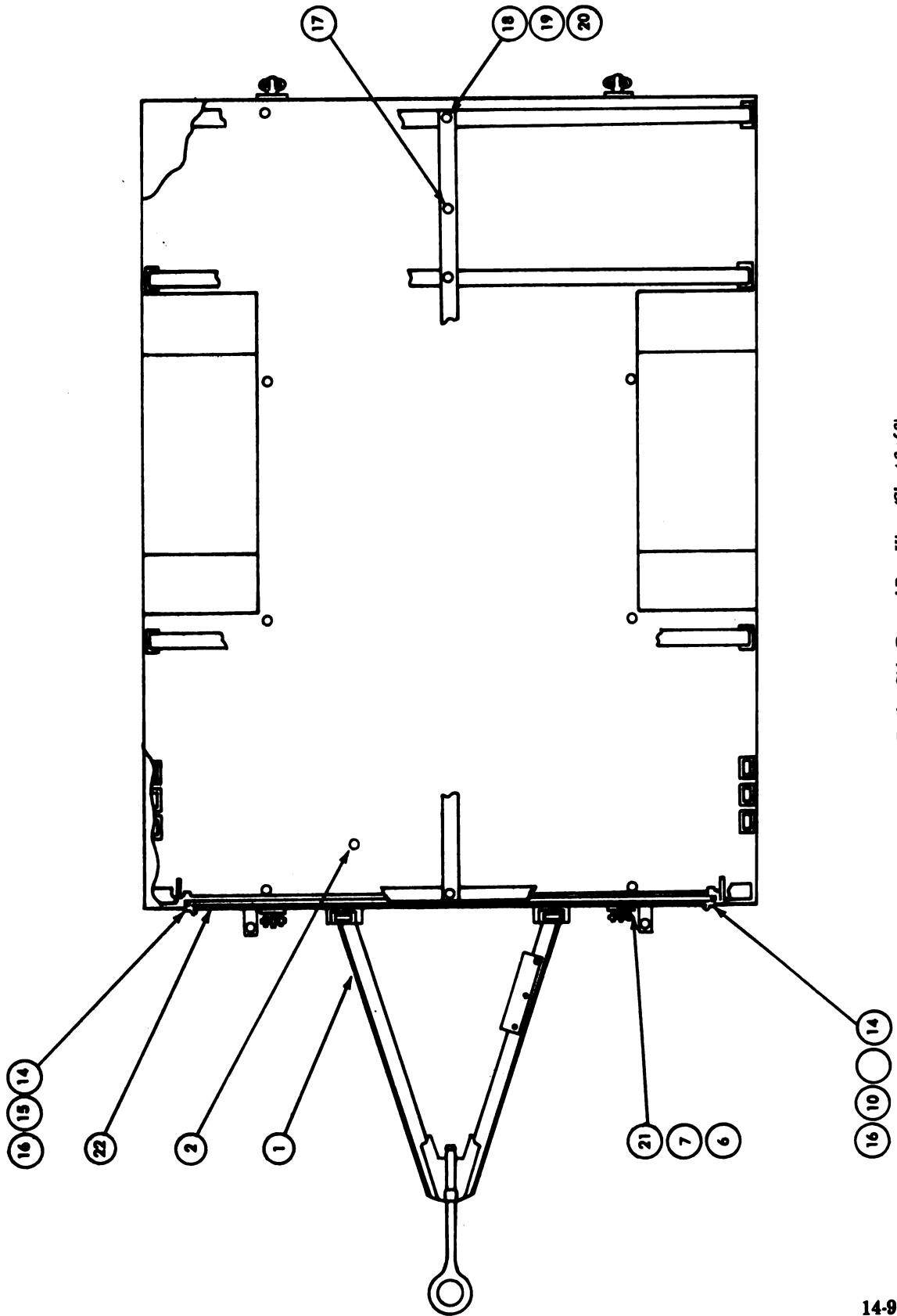


Figure 14-3. Trailer, Side, Top and Rear Views (Sheet 3 of 3)

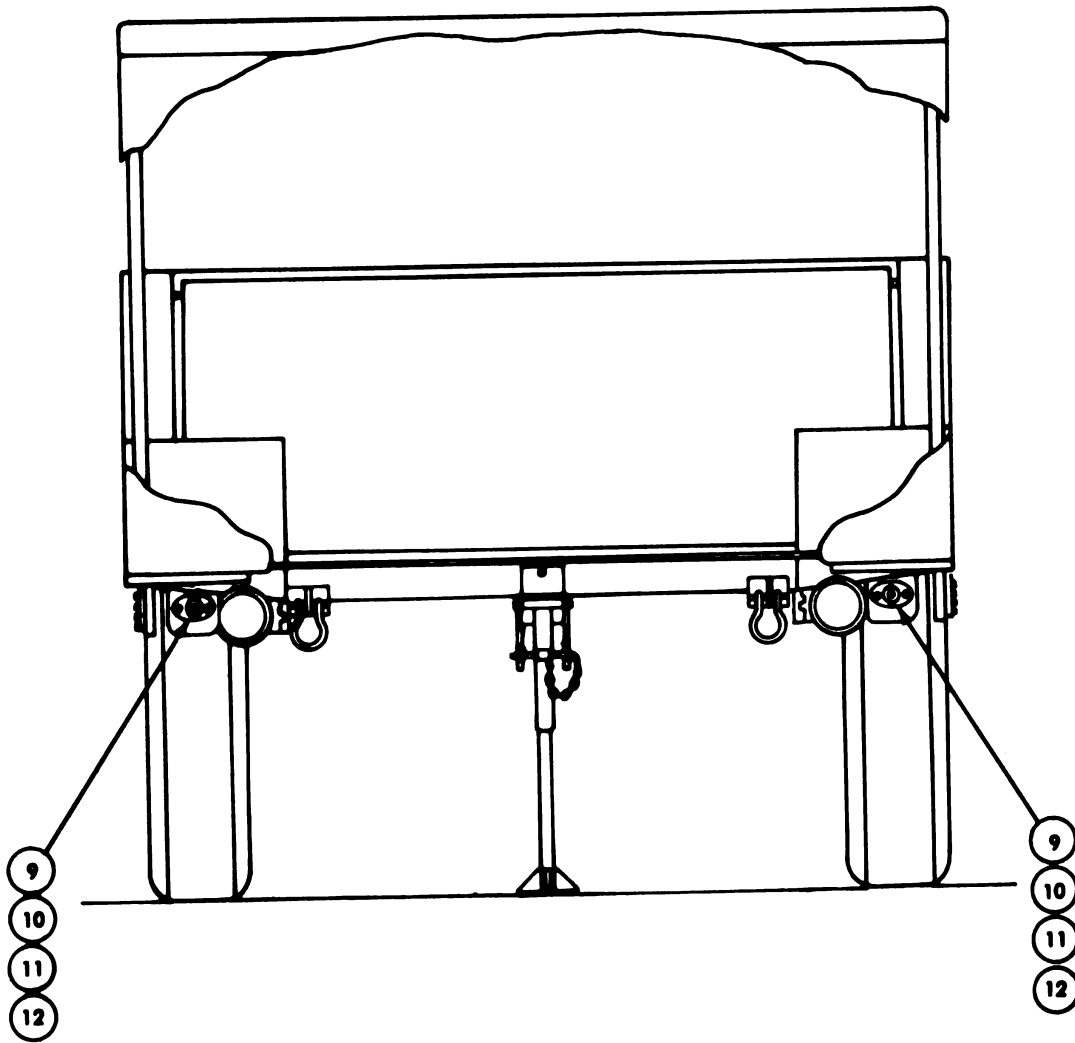


Figure 14-3. Trailer, Side, Top and Rear Views (Sheet 3 of 3)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
14-3	1	XBFFF		97403	13221E7327	CHASSIS, TRAILER		EA 1
14-3	2	XBFFF		97403	13221E7326	BODY, TRAILER		EA 1
14-3	3	PAOZZ	2540-00-926-0994	97403	13214E1218	BOW, VEHICULAR TOP		EA 4
14-3	4	PAOZZ	2540-00-926-0993	97403	13214E1219	COVER, FITTED		EA 1
14-3	5	PAOZZ	2590-00-420-8929	97403	13214E1206	JACK, LEVELING		EA 1
14-3	6	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON		EA 3
14-3	7	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT		EA 32
14-3	8	PAOZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING		EA 29
14-3	9	PAOZZ	9905-00-205-2795	96906	MS35387-1	REFLECTOR		EA 4
14-3	10	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT		EA 16
14-3	11	PAOZZ	5305-00-068-0500	96906	MS90725-3	SCREW, CAP, HEXAGON		EA 12
14-3	12	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING		EA 12
14-3	13	PAOZZ	9905-00-202-3639	96906	MS35387-2	REFLECTOR, INDICATING		EA 2
14-3	14	PAOZZ	5305-00-721-8010	96906	MS35307-314	SCREW, CAP, HEXAGON		EA 2
14-3	15	PAOZZ	5310-00-933-8121	96906	MS35338-139	WASHER, LOCK		EA 2
14-3	16	PAOZZ	5310-00-080-8495	96906	MS35425-39	NUT, PLAIN, WING		EA 2
14-3	17	KBOZZ		97403	13221E4799	LUMBER, HARDWOOD		EA 1
14-3	18	PAOZZ	5305-00-984-6215	96906	MS35206-268	SCREW, MACHINE		EA 4
14-3	19	PAOZZ	5310-00-014-5850	96906	MS27183-42	WASHER, FLAT		EA 4
14-3	20	PAOZZ	5310-00-515-9267	96906	MS35425-37	NUT, PLAIN, WING		EA 4
14-3	21	PAOZZ	5305-00-269-3215	96906	MS90725-65	SCREW, CAP, HEXAGON		EA 26
14-3	22	PAOZZ		97403	13221E7328	PLATE, FRONT SHIELD		EA 11
14-3	23	PAOZZ	5340-01-126-3826	96906	17990C613	PIN, QUICK DISCONNECT		EA 12
				80063	SM-C-937331			

Change 2

14-11

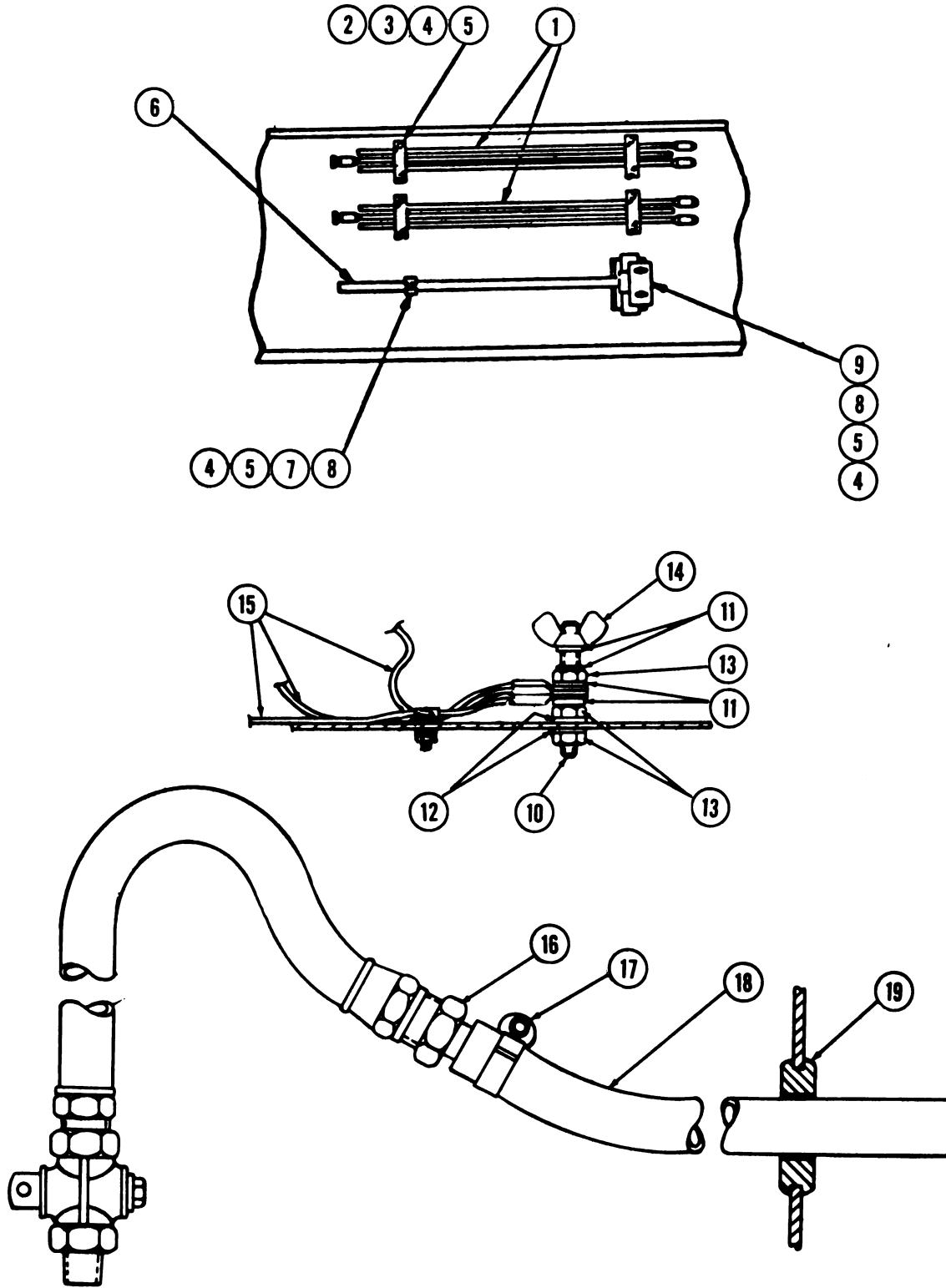


Figure 14-4. Trailer, Accessory Mounting, Ground Study and Engine Oil Drain

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
14-4	1	PAOZZ		81348	MIL-R-11461	ROD, GROUND	EA	2
14-4	2	XBOZZ	2590-00-932-7298	97403	13212E3617	CARRIER, ROD, GROUND	EA	4
14-4	3	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEXAGON	EA	8
14-4	4	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	11
14-4	5	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	11
14-4	6	PAOZZ	5120-00-251-4489	81348	GGGH86	HAMMER, HAND	EA	1
14-4	7	XBOZZ	5340-00-914-2578	97403	13214E1213-1	CLIP, SPRING TENSION	EA	1
14-4	8	PAOZZ	5305-00-225-3839	96906	MS90725-8	SCREW, CAP, HEXAGON	EA	3
14-4	9	XBOZZ	5340-00-999-6277	97403	13214E1214	BRACKET, ANGLE	EA	1
14-4	10	XDOZZ		97403	13214E1223	STUD, CONTINUOUS THD	EA	1
14-4	11	PAOZZ	5310-00-187-2413	88044	AN961-616	WASHER, FLAT	EA	4
14-4	12	PAOZZ	5310-00-913-9776	96906	MS35335-91	WASHER, LOCK	EA	2
14-4	13	PAOZZ	5310-01-026-5824	96906	MS16203-39	NUT, PLAIN, HEXAGON	EA	3
14-4	14	PAOZZ	5310-00-543-4717	96906	MS35425-28	NUT, PLAIN, WING	EA	1
14-4	15	PAOZZ	5940-00-115-4992	96906	MS20659-110	TERMINAL, LUG	EA	1
14-4	16	PAOZZ	4730-00-804-8416	96906	MS24399-20	REDUCER, TUBE	EA	1
14-4	17	PAOZZ	4730-00-908-3194	96906	MS35842-11	CLAMP, HOSE	EA	1
14-4	18	PAOZZ	4720-00-809-2889	03481	CS4720-0018FR	HOSE, NONMETALLIC	EA	1
14-4	19	PAOZZ	5325-00-903-5909	96906	MS35489-112	GROMMET, NONMETALLIC	EA	1

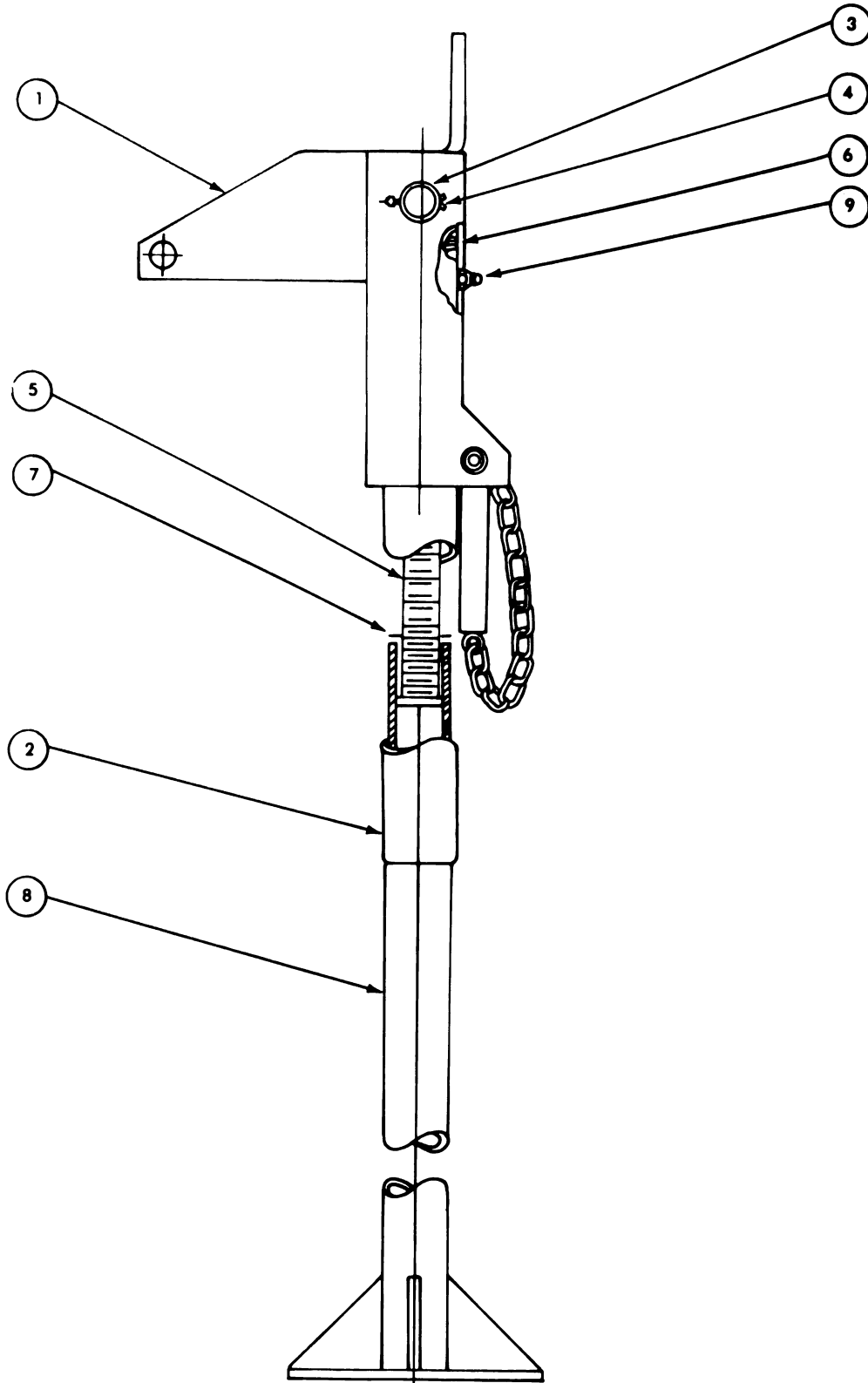


Figure 14-5 Trailer Support Leg

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
14-5	1	XBFZE		97403	13214E1207	BRACKET		EA 1
14-5	2	XBFZE	2590-00-453-8977	97403	13214E1208	CHAIN, PIN RETAINING		EA 1
14-5	3	XBFZE	5315-01-162-0143	97403	13214E1209	SHAFT		EA 1
14-5	4	PAFZE	5315-00-839-5822	96906	MS24665-353	PIN, COTTER		EA 2
14-5	5	XBFZE		97403	13214E1210	SCREW		EA 1
14-5	6	PAFZE	5315-00-838-4584	96906	MS16562-66	PIN, SPRING		EA 1
14-5	7	XBFZE	5310-01-149-0869	97403	13214E1211	NUT, SLEEVE		EA 1
14-5	8	XDFZE		97403	13214E1212	LEG, BASE		EA 1
14-5	9	PAFZE	4730-00-172-0049	96906	MS15006-1	FITTING, LUBRICATION		EA 1

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CHAPTER 15

POWER PLANT AN/MJQ-18

Section I. DESCRIPTION AND DATA

15-1. Description.

a. General. Power Plant AN/MJQ-18, NSN 6115-00-033-1398, is made up of two DOD Model MEP-003A Generator Sets mounted on a modified M103A3, 1-1/2 ton, 2- wheel trailer. Each MEP-003A provides 10 KW, 60 Hz, tactical utility power to the load.

b. Function. The AN/MJQ-18 Power Plant is mobile, and may be used to supply power to any system or equipment required up to 10KW and 60 Hz input operation power.

c. List of Equipment. The following items made up the AN/MJQ-18 Power Plant:

Qty	Description
1	Distribution Box (97403) 13220E4462
2	Cable Assembly (97403) 13212E3585-4
2	Generator Set, 10KW, 60 Hz, DED Model MEP-003A, NSN 6115-00-465-1030
1	Cable Assembly (97403) 13212E3584-4

d. The items listed below are auxiliary equipment used with AN/MJQ-18 Power Plant.

Qty	Description-List of Equipment	Identifying No.
2	Rod, Ground, Driven, Sectional 9 ft (2.7 m) long	MIL-R-11461
1	Hammer, Hand, Engineers, 8 lb (3.6 kg) (stored in accessory box)	GGG-H-86
1	Extinguisher, Fire, Hand, 2-3/4 lb (1.25 kg)	MIL-E-52031
4	Bracket Assembly, Liquid Container 5 gal. (19 liters)	MS53052-1
1	Trailer, Modified, Model M103A3, 1-1/2 ton	(97403) 13216E7430
1	Hammer, Slide, 36" long, 16" wide NSN 5120-01-013-1676	(97403) 13226E7741

15-2. Tabulated Data.

a. Refer to TM 5-6115-585-12 and -34 Technical Manuals for additional information concerning DED Generator Set, DOD Model MEP-003A.

ENGINE

Manufacturer ONAN Division of
ONAN Corporation
Model DOD Drawing 72-5307
Number
Type 4 Cylinder, 4 Stroke
Cycle, Air Cooled
Diesel
Rated Horsepower 1800-rpm - 16 continuous
Cooling System Air-Cooled
Crankcase Capacity 5.5 quarts (5.2 liters)

Fuel Tank Capacity 12.5 gallons (47.3 liters)
Electrical System 24V, negative ground

GENERATOR

Manufacturer ONAN Division of
ONAN Corporation
DOD Drawing 72-5260
Number
Type Rotating Field Syn-
chronous brushless
Load Capacity (1800 rpm) 10KW @ 60
Hz
Current Rating (1800 rpm) 104 Amps @
120V, 1 Phase-2 Wire
(1800 rpm) 52 Amps @
120/240V, 1 Phase-2 Wire
(1800 rpm) 34.7 Amps @
120/208V, 3 Phase-4 Wire
Power Factor 0.8

TM 5-6115-594-14&P
TO 35C2-3-1-461

b. Generator Set Dimensions and Weight:

Length	62 inches (157.5 cm)
Width	32 inches (81.3 cm)
Height	37 inches (94.0 cm)
Weight	(dry) 1220 pounds (553.4 kg)

c. Trailer. The two generator sets are mounted on a modified M103A3, 1-1/2 ton, 2-wheel trailer. The trailer chassis can be towed over prepared roads with loads to 5590 pounds (2041 kg) at a maximum speed of 55 mph (88.5 km/h). Over unimproved roads, trails and open rolling terrain the load limit is 4090 pounds (1859 kg) at a maximum speed of 30 mph (48.3 km/h). It will ford hard-bottom water crossing to any depth that can be negotiated by the towing vehicle.

Towing Facilities	Lunette
Towing Vehicle	2-1/2 ton 6x6
Brakes	Air over hydraulic
Handbrakes	Mechanical, handlever controlled
Tires	Pneumatic, normal use 50 psi (3.5 kg/sq cm). In mud, snow and sand use 25 psi (1.75 kg/sq cm)
Voltage (lighting)	24 VDC
Weight	1560 pounds (709 kg)

15-3. Description of Major Components.

a. Vehicle and Mounting Facilities. The M103A3 Trailer described in TM 9-2330-213-14 has been adapted for use with 10KW, 60 Hz, Generator Sets as follows:

(1) **Chassis Body.** A flat bedded body with splash shield has been added to the M103A3 chassis.

(2) **Taillight Assemblies.** The taillight assemblies have been moved from the chassis mounts and mounted on the trailer body.

(3) **Rear Landing Leg Assembly.** A landing leg assembly is provided on the rear cross channel of the chassis.

b. Diesel Engine Generator Sets. Refer to TM 5-6115-1585-12 and -34 for operation and maintenance instructions for the 120, 120/240, and 120/208V, 1 Phase-2 Wire, 1 Phase-3 Wire, and 3 Phase-4 Wire, 60 Hz, Air-Cooled, Skid Mounted DOD Generator Set, Model MEP-003A, NSN 6115-00-465-1030. TM 5-6115-585-24P for repair parts.

c. Distribution Box Assembly. The distribution box assembly is connected between the two generator sets by use of interconnecting cables. A transfer switch is used to select the desired generator set to supply the load.

Section II. OPERATING INSTRUCTIONS

15-4. Inspecting and Servicing Equipment.

a. Generator Set. Perform the inspection and servicing procedures described in TM 5-6115-585-12.

b. M103A3 Trailer. Perform preliminary services procedures as described in TM 9-2330-213-14.

15-5. Installation.

a. Trailer.

(1) Locate the trailer on as level a surface as possible in order for the generator set to operate efficiently.

(2) Set brakes and block wheels securely to prevent any movement.

(3) Pull leg supports down and adjust length for firm contact with ground.

WARNING

Wheels must be blocked, brakes set and leg supports down in support position before operating the equipment.

b. External Fuel Line Connections. When the generator sets are to be operated for long intervals, frequent refilling of the fuel tanks can be eliminated by obtaining fuel from an external source (such as 55 gallon diesel fuel drum).

(1) Connect the auxiliary fuel line to the generator set auxiliary fuel supply connection located below the control cabinet.

(2) Connect the auxiliary fuel line to the auxiliary fuel source.

(3) Position the fuel selector valve in the auxiliary position.

c. Ground Connections. The generator set may be grounded to an underground metallic water system, a driven metal rod or a buried metal plate. A ground rod must have a minimum diameter of 5/8 inch if solid or 3/4 inch if pipe, and must be driven to a minimum depth of 8 feet. Saturate hole with salt water. A ground plate must have a minimum area of 9 square feet and be buried to a minimum depth of 4 feet. The ground lead must be at least No. 6 AWG copper wire. If a ground rod is used, connect the generator set to ground.

WARNING

Do not operate the generator set until it has been connected to a suitable ground. Serious injury or death by electrocution can result from operating an ungrounded generator set.

15-6. Starting.

- a. Connect load cables to distribution box.
- b. Perform prestarting procedures described in TM 5-6115-585-12, Chapter 2.
- c. Position distribution box transfer switch to the desired generator set.
- d. Start the generator set as instructed in Chapter 2 in TM 5-6115-585-12.

15-7. Stopping. Stop the generator set as instructed in Chapter 2 in TM 5-6115-585-12.

15-8. Transferring Generators.

- a. Stop the operating generator set as described in paragraph 15-7.
- b. Set distribution box transfer switch to the other generator set.
- c. Start alternate generator set as described in paragraph 15-6,d.

15-9. Cleaning. The power unit or power plant shall be cleaned by wiping dirt and dust off the equipment with a clean, dry cloth. Also, use a brush on hard-to-remove caked dirt.

Section III. REPAIR PARTS

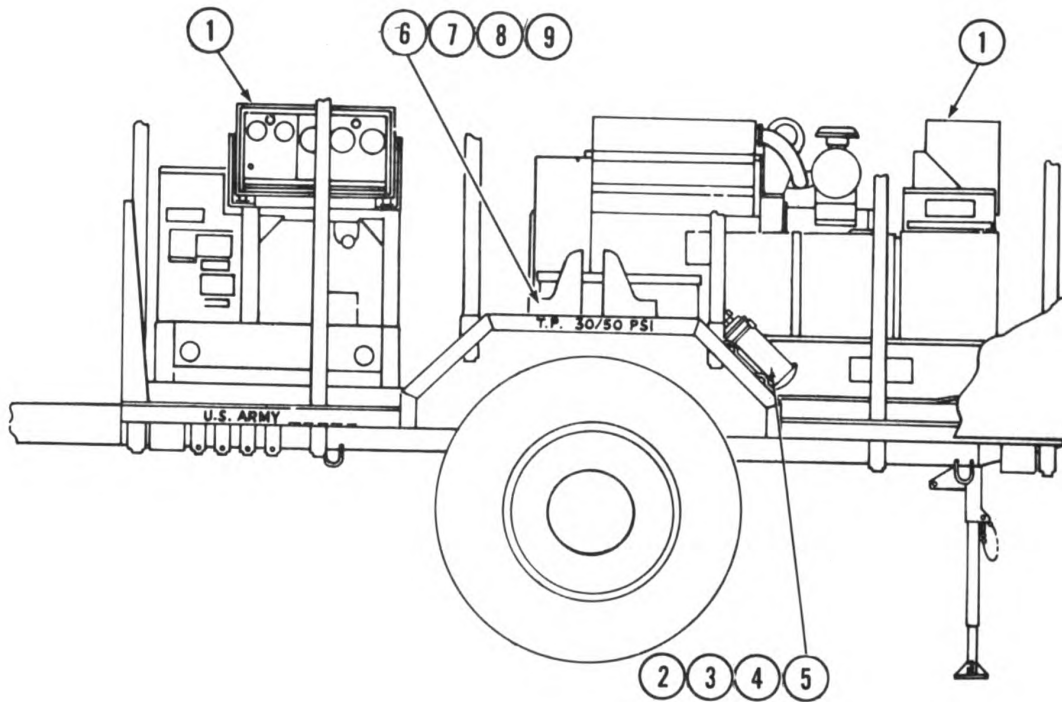


Figure 15-1 Power Plant, Electric, Trailer Mounted, AN/MJQ-18

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
15-1	1	PDFHH	6115-00-465-1030	81349	MIL-G-52889/2	GENERATOR SET, 10KW, 60 HS	EA	2
15-1	2	PAOEE	4210-00-555-8837	19207	10916537	EXTINGUISHER, FIRE	EA	1
15-1	3	PAOEE	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEX HD	EA	4
15-1	4	PAOEE	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	8
15-1	5	PAOEE	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	4
15-1	6	XBOZE		96906	MS53052-1	BRACKET ASSY	EA	4
15-1	7	PAOEE	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEX HD	EA	16
15-1	8	PAOEE	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	32
15-1	9	PAOEE	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	16

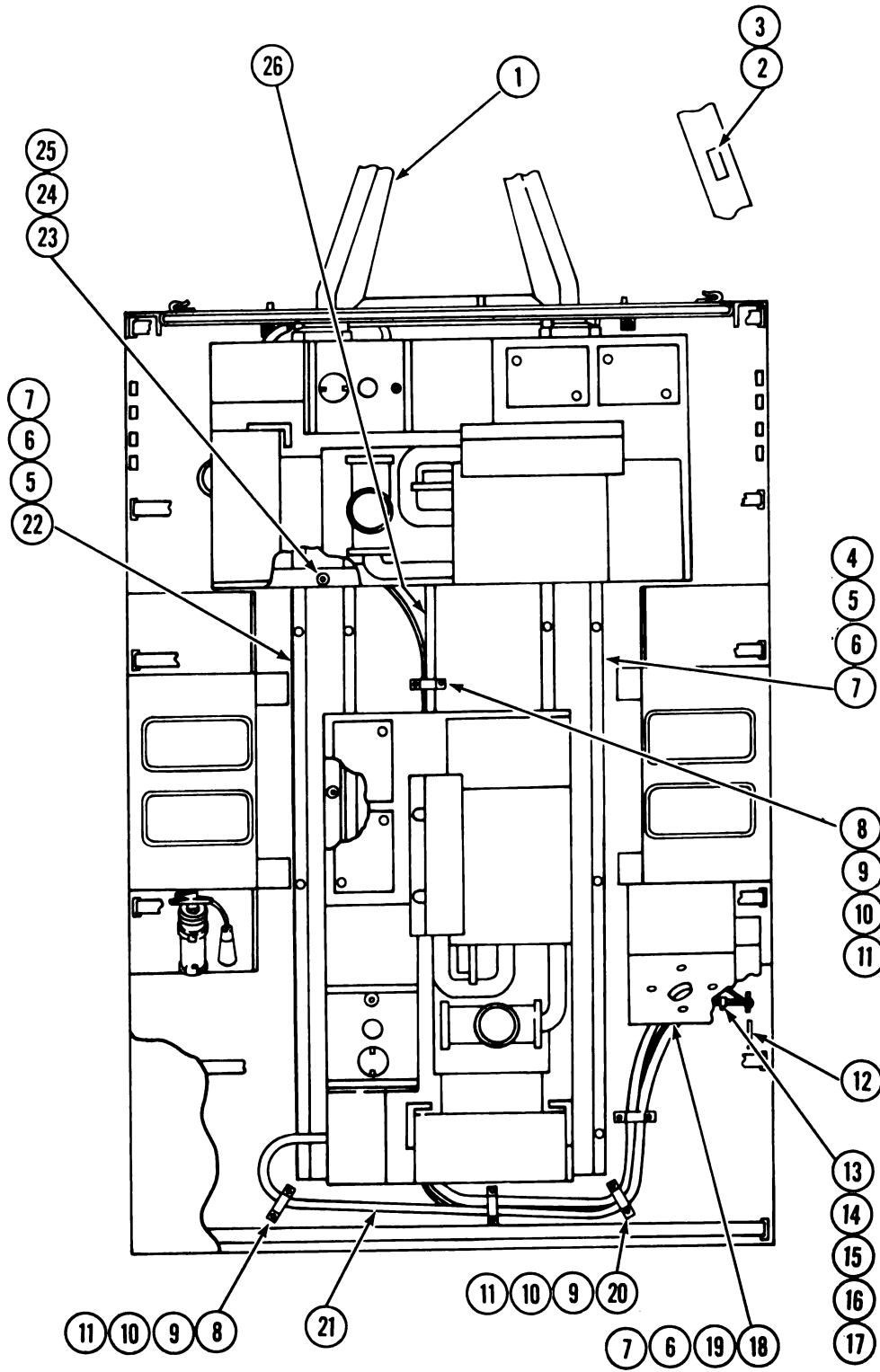


Figure 15-2 Generator Set, Trailer Mounted, PU 753

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	F8CM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
15-2	1	XBFFH	2330-00-537-8852	97403	13216E7430	TRAILER, MODIFIED		EA 1
15-2	2	XBOE		97403	13220E4463-2	PLATE IDENT		EA 1
15-2	3	PAOE	5305-00-253-5614	96906	MS21318-20	SCREW, DRIVE		EA 4
15-2	4	XBFE		97403	13220E4457-2	RAIL MTG		EA 1
15-2	5	XDFE		96906	MS90725-111	SCREW, CAP, HEX HD		EA 16
15-2	6	PAFE	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT		EA 40
15-2	7	PAFE	5310-00-225-6993	96906	MS51922-33	NUT, SELF-LOCKING		EA 20
15-2	8	XBFE		97403	13213E3591-6	CLAMP CABLE		EA 2
15-2	9	PAFE	5305-00-071-2241	96906	MS90725-10	SCREW, CAP, HEX HD		EA 10
15-2	10	PAFE	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT		EA 18
15-2	11	PAFE	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING		EA 10
15-2	12	XBOE	9905-01-085-7703	97403	13205E4918	PLATE, ID GRD		EA 1
15-2	13	XBFE	5340-00-930-1754	96906	MS21334-2	CLAMP, LOOP		EA 1
15-2	14	PAFE	5305-00-984-6211	96906	MS35206-264	SCREW, MACHINE		EA 1
15-2	15	PAFE	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK		EA 1
15-2	16	PAFE	5310-00-809-8546	96906	MS27183-8	WASHER, FLAT		EA 2
15-2	17	PAFE	5310-00-934-9758	96906	MS35649-202	NUT, PLAIN, HEX HD		EA 1
15-2	18	PAFE		97403	13220E4462	DISTRIBUTION BOX		EA 1
15-2	19	PAFE	5305-00-044-4153	96906	MS90725-109	SCREW, CAP, HEX HD		EA 4
15-2	20	XBFE	5340-01-162-0433	97403	13212E3591-5	CLAMP, CABLE		EA 3
15-2	21	PAFE		97403	13212E3585-4	CABLE, ASSY		EA 1
15-2	22	XBFE		97403	13220E4158-2	RAIL MTG		EA 1
15-2	23	PAFE	5305-00-071-2070	96906	MS90728-114	SCREW, CAP HEX HD		EA 8
15-2	24	PAFE	5310-00-584-5272	96906	MS35338-48	WASHER, LOCK		EA 8
15-2	25	PAFE	5310-01-150-5922	97403	13206E4482-2	WASHER, BEVEL		EA 8
15-2	26	PAFE		97403	13212E3584-4	CABLE, ASSY		IN 1

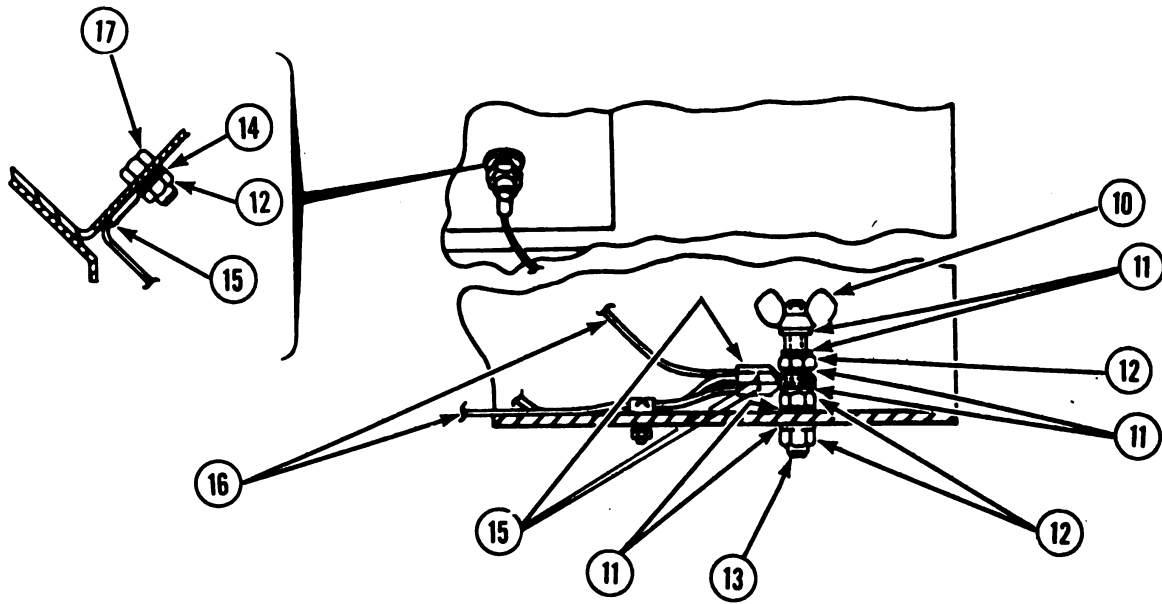
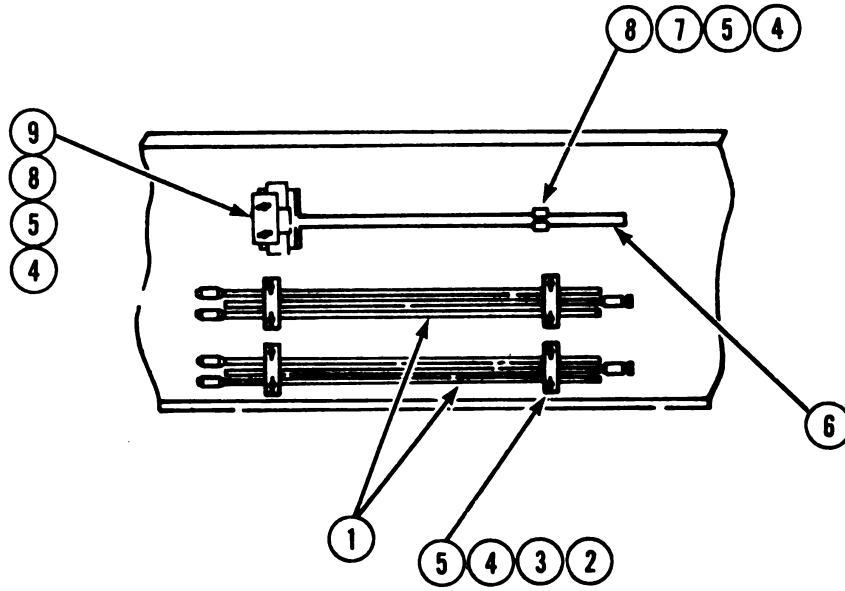


Figure 15-3 Trailer Accessory Mounting and Ground Stud

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
15-3	1	PAOZZ	5975-00-878-3791	07464	3598	ROD, GROUND	EA	2
15-3	2	PAOZZ		97403	13212E1214	CLAMP, GROUND	EA	4
15-3	3	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP HEX HD	EA	8
15-3	4	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	14
15-3	5	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	11
15-3	6	PAOZZ	5120-00-251-4489	81348	GGGH86	HAMMER, HAND	EA	1
15-3	7	PAOZZ	5340-00-914-2578	97403	13214E1213-1	CLIP, SPRING	EA	1
15-3	8	PAOZZ	5305-00-225-3839	96906	MS90725-8	SCREW, CAP HEX HD	EA	3
15-3	9	XBOZZ	5340-00-999-6277	97403	13214E1214	BRACKET, ANGLE	EA	1
15-3	10	PAOZZ	5310-00-543-4717	96906	MS35425-28	NUT, PLAIN	EA	1
15-3	11	PAOZZ	5310-01-004-9129	88044	AN961-6168	WASHER, FLAT	EA	4
15-3	11	PAOZZ	5310-00-187-2413	88044	AN961-616	WASHER, FLAT	EA	4
15-3	12	PAOZZ	5310-01-026-5824	96906	MS16203-39	NUT, PLAIN HEX HD	EA	4
15-3	13	XDOZZ		97403	13214E1223	STUD, CONTINUOUS	EA	1
15-3	14	PAOZZ	5310-00-913-9776	96906	MS35335-91	WASHER, LOCK	EA	3
15-3	15	PAOZZ	5940-00-115-4992	96906	MS20659-110	TERMINAL, LUG	EA	6
15-3	16	PAOZZ		96906	QQ-W-343	WIRE, ELECTRICAL	AR	
15-3	17	PAOZZ		96906	MS35309-358	SCREW, CAP HEX HD	EA	1

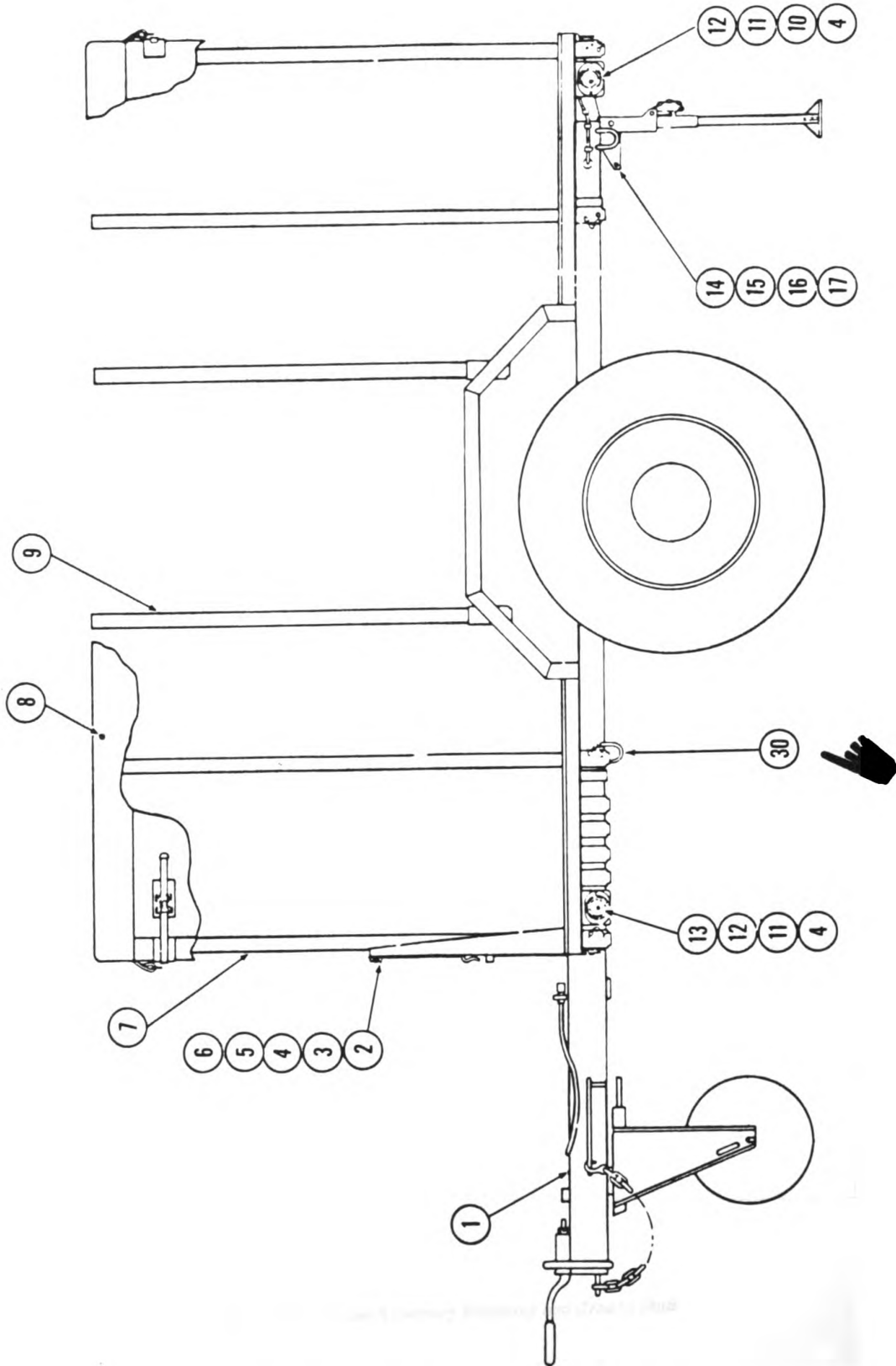


Figure 15-4. Trailer, Side, Top and Rear Views (Sheet 1 of 3)

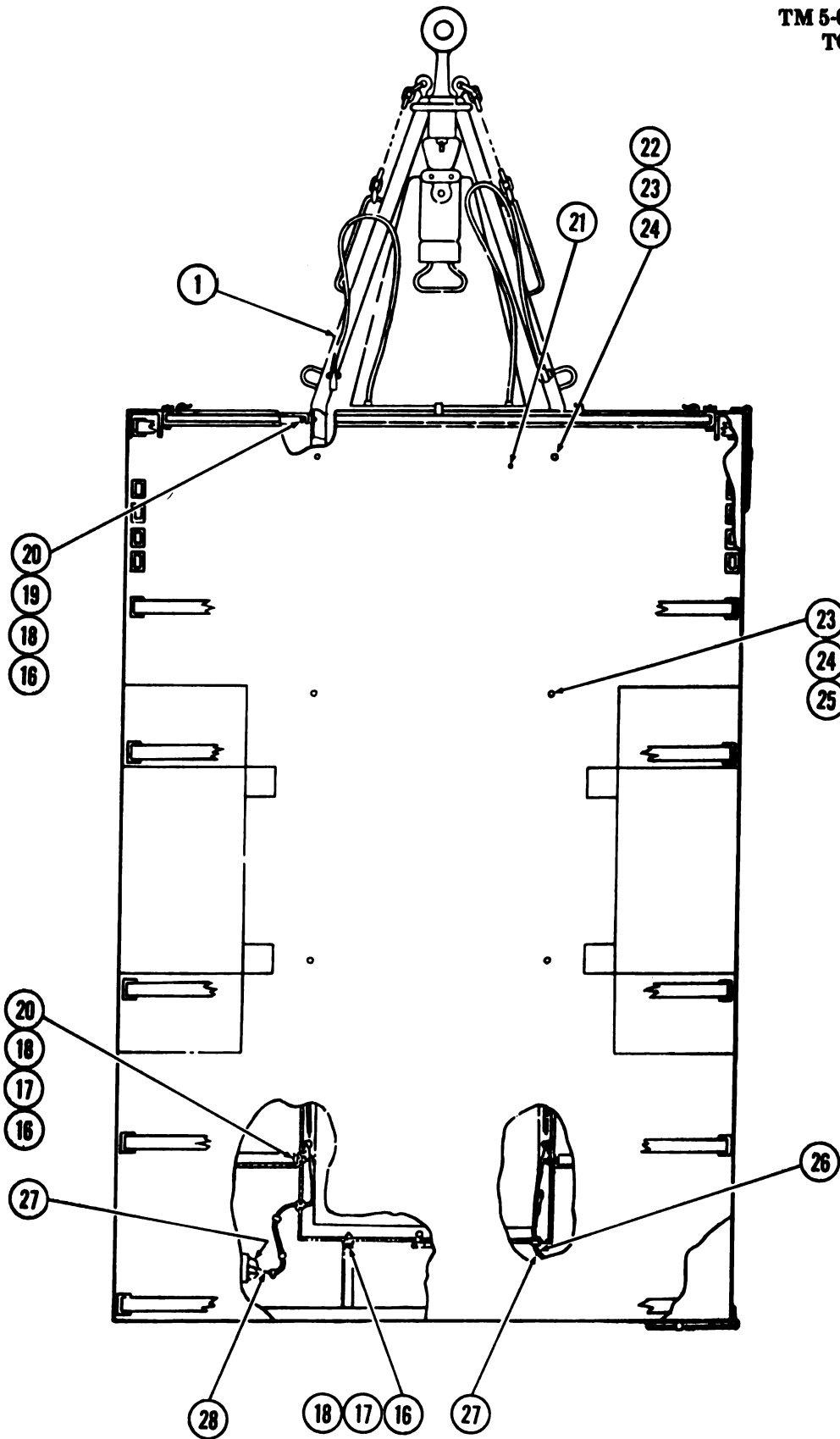


Figure 15-4. Trailer, Side, Top and Rear Views (Sheet 2 of 3)

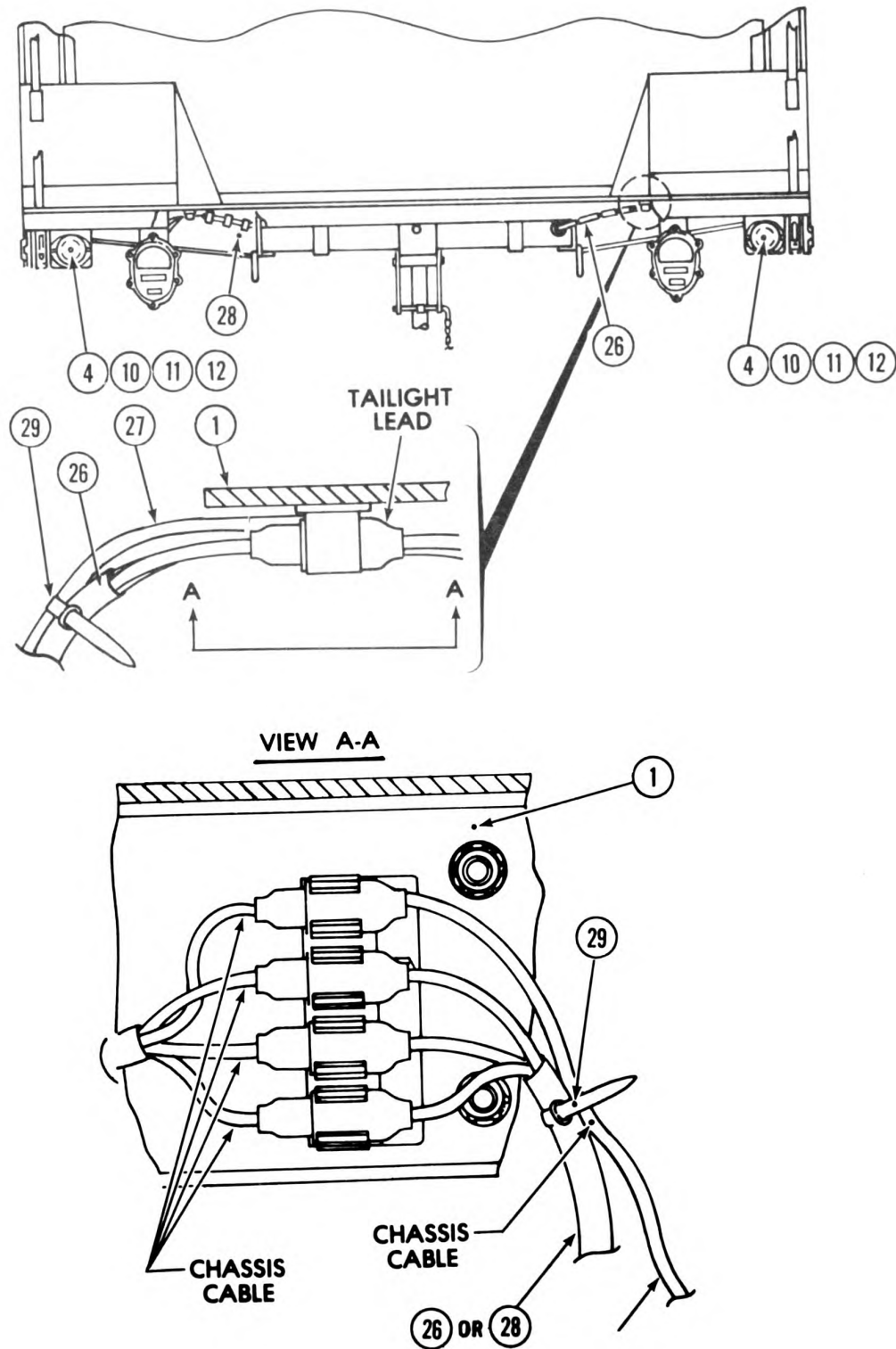


Figure 15-4. Trailer, Side, Top and Rear Views Sheet 3 of 3)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	
15-4	1	XBFZZ		97403	13216E7431	CHASSIS, TRAILER	EA	1
15-4	2	XBOZZ	2510-00-919-7866	97403	13216E7433	PLATE, FRONT	EA	1
15-4	3	PAOZZ	5305-00-721-8010	96906	MS35307-314	SCREW, CAP HEX HD	EA	2
15-4	4	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	8
15-4	5	PAOZZ	5310-00-933-8121	96906	MS35338-139	WASHER, LOCK	EA	2
15-4	6	PAOZZ	5310-00-080-8495	96906	MS35425-39	NUT, PLAIN	EA	2
15-4	7	PAOZZ	2540-00-924-8478	97403	13212E3597-1	BOW, VEHICULAR	EA	4
15-4	8	PAOZZ	2540-00-459-5946	97403	1321E7434	COVER, FITTED	EA	1
15-4	9	PAOZZ	2540-00-926-1003	97403	13212E3597-2	BOW, VEHICULAR	EA	2
15-4	10	PAOZZ	9905-00-205-2795	96906	MS35387-1	REFLECTOR	EA	4
15-4	11	PAOZZ	5305-00-068-0500	96906	MS90725-3	SCREW, CAP, HEX HD	EA	12
15-4	12	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	12
15-4	13	PAOZZ	9905-00-202-3639	96906	MS35387-2	REFLECTOR	EA	2
15-4	14	XBOZZ	2590-00-420-8929	97403	13214E1206	JACK, LEVELING	EA	1
15-4	15	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEX HD	EA	3
15-4	16	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	22
15-4	17	PAOZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	15
15-4	18	PAFZZ	5305-00-269-3211	96906	MS18154-60	SCREW, CAP, HEX HD	EA	16
15-4	19	PAFZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK	EA	4
15-4	20	XBFZZ		97403	13212E3590	SHIM	EA	V
15-4	21	XBFFF		97403	13216E7432	BODY, TRAILER	EA	1
15-4	22	PAFZZ		97403	13218E0021-41	SCREW, CAP, HEX HD	EA	2
15-4	23	PAFZZ	5310-00-823-8803	96906	MS27183-21	WASHER, FLAT	EA	8
15-4	24	PAFZZ	5310-00-269-4040	96906	MS51922-49	NUT, SELF-LOCKING	EA	8
15-4	25	PAFZZ	5305-00-724-5911	96906	MS90725-163	SCREW, CAP, HEX HD	EA	6
15-4	26	PAFZZ	6145-00-705-6687	19204	7056681	CABLE, SPECIAL	FT	V
15-4		PAFZZ	9905-00-831-1491	96906	MS39020-10	BAND, MARKER	EA	10
15-4		PAFZZ	5935-00-167-7775	96906	MS27144-1	CONNECTOR, PLUG	EA	3
15-4		PAFZZ	5935-00-462-6603	96906	MS27142-2	CONNECTOR, PLUG	EA	3
15-4	27	MFFZZ		97403	13216E7476	LEAD, ELEC	EA	2
15-4		PAFZZ	6145-00-152-8499	81349	M13486/1-5	CABLE, SPECIAL	FT	V
15-4		PAFZZ	9905-00-831-1491	96906	MS39020-10	BAND, MARKER	EA	1
15-4		PAFZZ	5935-00-167-7775	96906	MS27144-1	CONNECTOR, PLUG	EA	1
15-4	28	MFFZZ		97403	13216E7479-1	CABLE	EA	1
15-4		PAFZZ	6145-00-705-6681	81349	M13486/7-1	CABLE, SPECIAL	FT	V
15-4		PAFZZ	9905-00-831-1491	96906	MS39020-10	BAND, MARKER	EA	10
15-4		PAFZZ	5935-00-167-7775	96906	MS27144-1	CONNECTOR, PLUG	EA	3
15-4		PAFZZ	5935-00-462-6603	96906	MS27142-2	CONNECTOR, PLUG	EA	3
15-4	29	PAOZZ	5975-00-074-2072	96906	MS3367-1-9	STRAP, TIE DOWN	EA	V
15-4	30	PAOZZ	5340-00-878-5269	96906	MS17990C613	PIN, RELEASE QUICK	EA	12

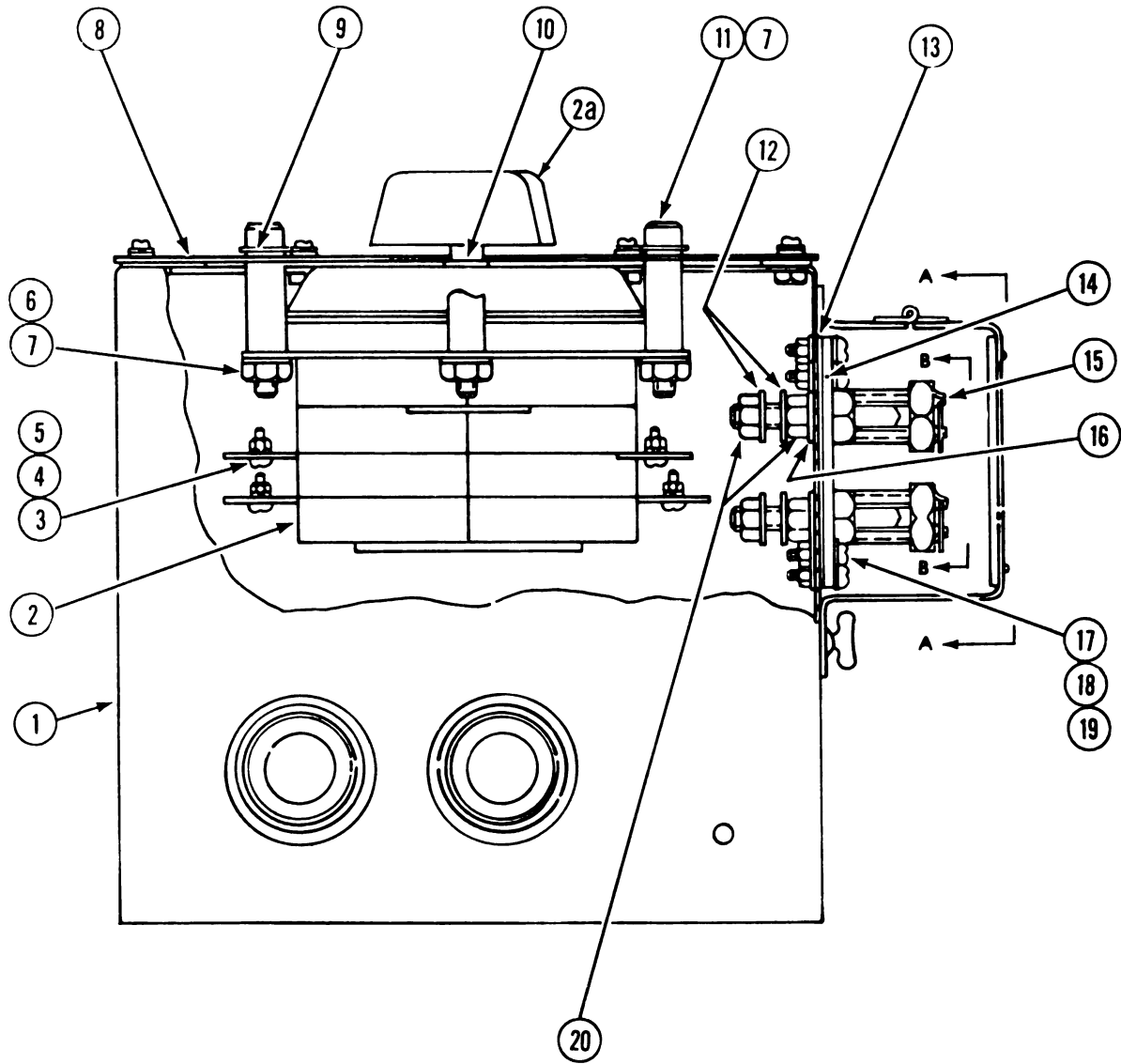


Figure 15-5. Distribution Box Assembly (Sheet 1 of 3)

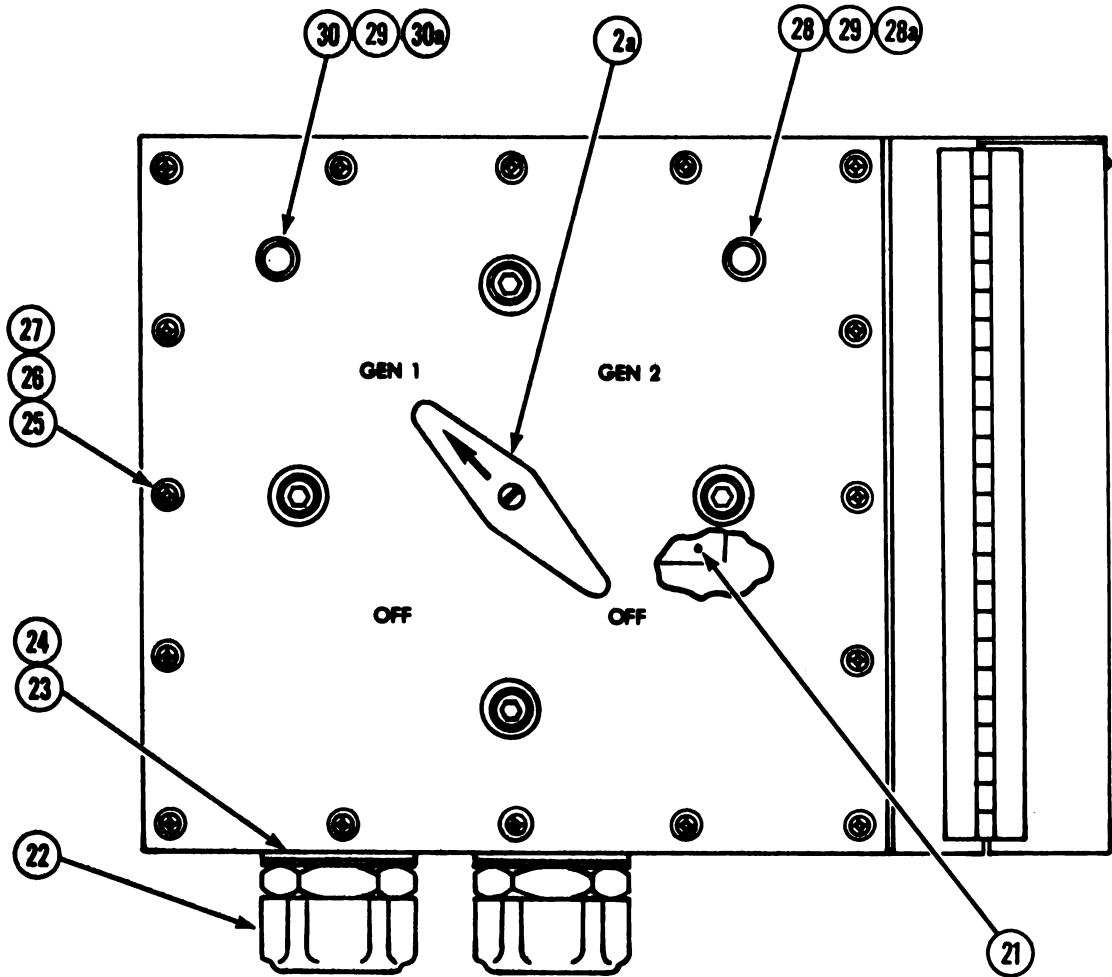


Figure 15-5. Distribution Box Assembly (Sheet 2 of 3)

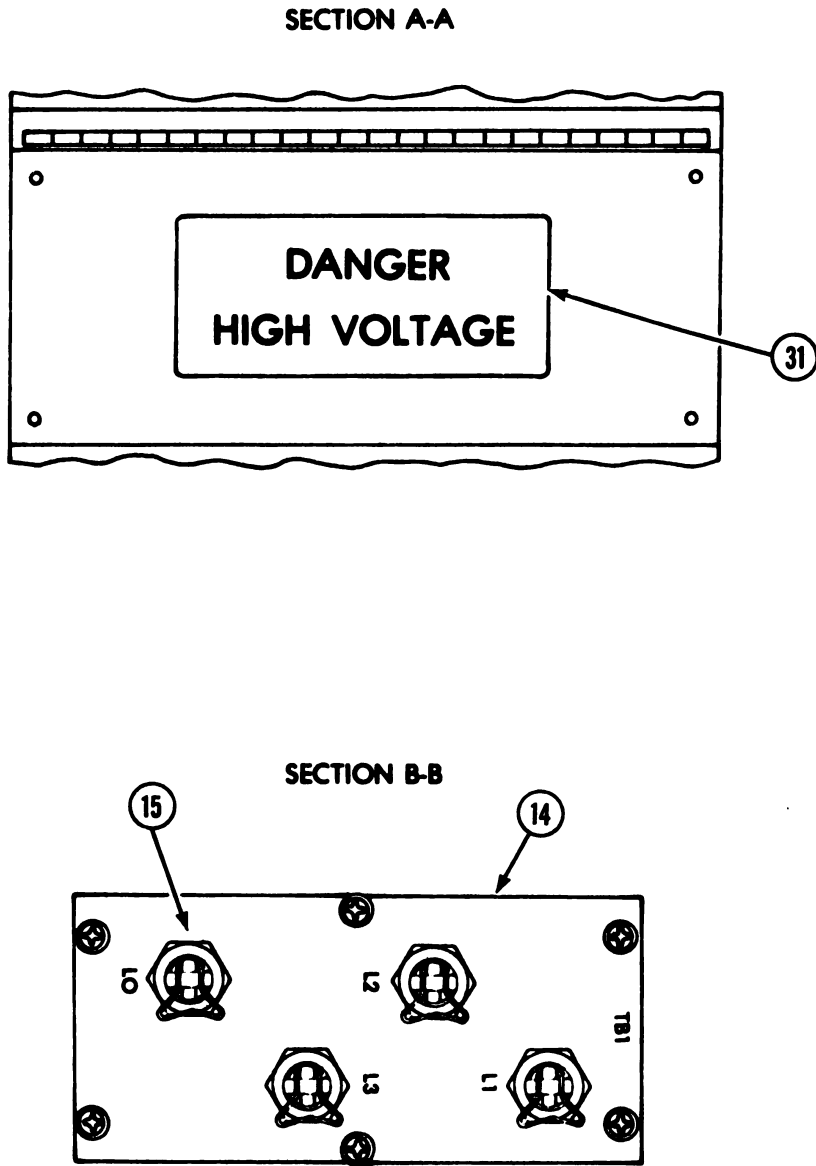
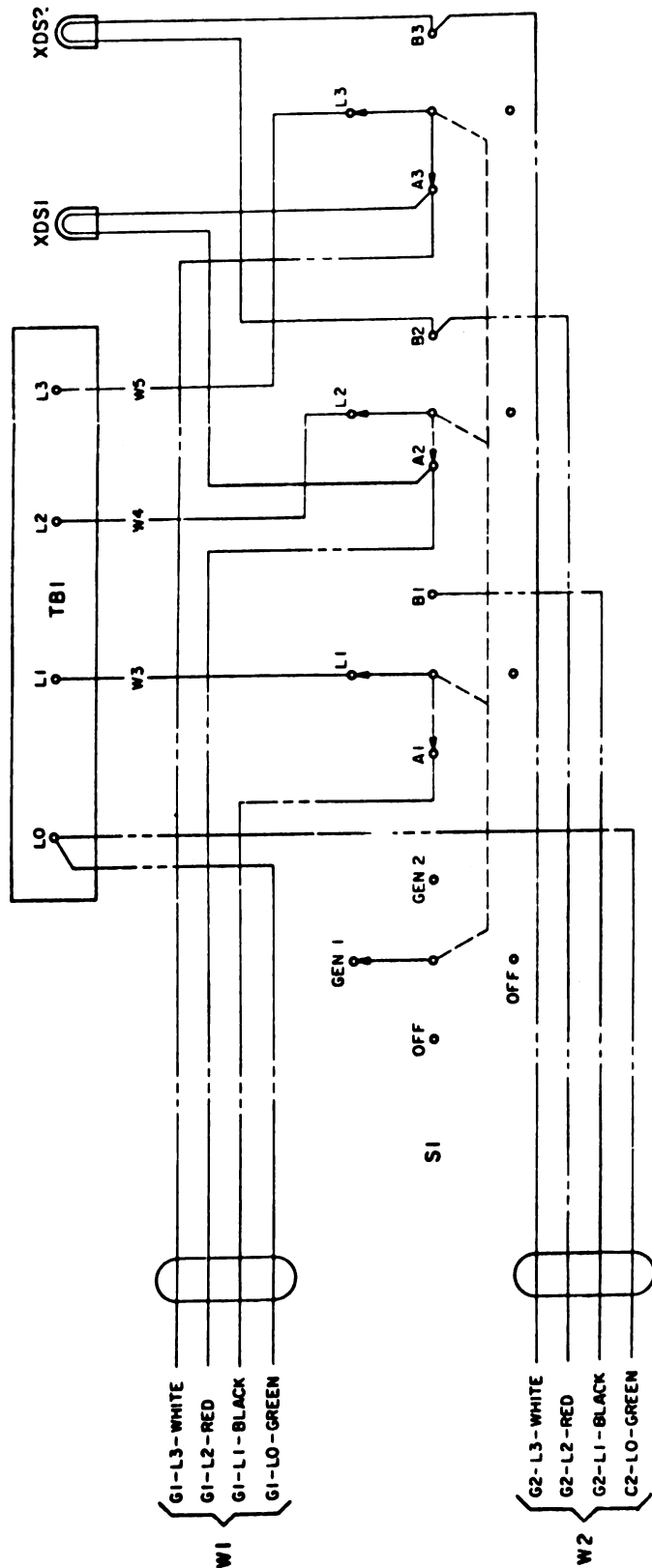


Figure 15-5. Distribution Box Assembly (Sheet 3 of 3)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PFCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
15-5		PAPFE		97403	13220E4462	DISTRIBUTION BOX	EA	1
15-5	1	XBPFE		97403	13220E4466	BOX	EA	1
15-5	2	PAPFE	5930-00-829-3238	81349	205R352	SWITCH, ROTARY	EA	1
15-5		PAOSE	5355-01-166-3672	82121	0600-1	EMOB	EA	1
15-5	3	PAPFE	5305-01-135-7258	96906	MS35215-95	SCREW, MACHINE	EA	9
15-5	4	PAPFE	5310-00-939-0921	96906	MS35335-95	WASHER, LOCK	EA	9
15-5	5	PAPFE	5310-00-411-0687	96906	MS35650-3385T	NUT, FLAIN, HEX HD	EA	9
15-5	6	PAPFE	5310-00-225-6993	96906	MS51922-33	NUT, SELF-LOCKING	EA	4
15-5	7	PAPFE	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT	EA	8
15-5	8	XBPFE		97403	13212E3579	COVER	EA	1
15-5	9	PAPFE	5330-00-618-5361	96906	MS28775-015	PACKING, PERFORMED	EA	4
15-5	10	PAPFE	5330-00-579-7916	96906	MS28775-115	PACKING, PERFORMED	EA	1
15-5	11	PAPFE	5305-00-983-7467	96906	MS16997-149	SCREW, CAP, HEX HD	EA	4
15-5	12	PAPFE		88044	AM961-816E	WASHER, FLAT	EA	8
15-5	12	PAPFE	5310-00-465-2719	88044	AM961-816T	WASHER, FLAT	EA	1
15-5	13	PAPFE		07403	13212E3583	GASKET	EA	1
15-5	14	XBPFE		97403	13211E4775	TERMINAL BOARD	EA	1
15-5	15	PAOSE	5940-01-141-3671	96906	MS39347-4	TERMINAL, STUD	EA	4
15-5	16	PAPFE	5310-00-042-4229	96906	MS35333-113	WASHER, LOCK	EA	4
15-5	17	PAPFE	5305-00-988-1727	96906	MS35206-283	SCREW, MACHINE	EA	6
15-5	18	PAPFE	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	12
15-5	19	PAPFE	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	6
15-5	20	PAPFE	5310-00-006-8286	96906	MS16203-41	NUT, FLAIN HEX HD	EA	8
15-5	21	XDPFE		97403	13212E3587	PLATE, INST	EA	1
15-5	22	XBPFE		97403	13218E5149-9	TUBE, STUFFING	EA	2
15-5	23	PAPFE		97403	13218E5140-5	GASKET	EA	2
15-5	24	XBPFE	5310-01-166-6154	97403	13218E5139-5	WASHER	EA	2
15-5	25	PAPFE	5305-00-989-7435	96906	MS35207-264	SCREW, MACHINE	EA	16
15-5	26	PAPFE	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK	EA	16
15-5	27	PAPFE	5310-00-014-5850	96906	MS27183-42	WASHER, FLAT	EA	16
15-5	28	PAPFE	6210-00-253-0688	97403	13212E3581-2	LIGHT, INDICATOR	EA	1
15-5		PAOSE	6240-00-892-4420	96906	MS25252C7A	LAMP, GLOW	EA	1
15-5		PAOSE	6210-00-246-4888	81349	LC33RN2	LENS, LIGHT	EA	1
15-5		PAPFE	6145-00-578-7518	81347	M5086/1-18-9	WIRE, ELECTRICAL	FT	V
15-5		XAPFE		72619	181-8836-09-553	LIGHT, HOUSING	EA	1
15-5	29	PAPFE	5940-00-113-8184	96906	MS25036-150	TERMINAL, LUG	EA	2
15-5	30	PAOSE	6210-00-406-1398	97403	13212E3581-1	LIGHT, INDICATOR	EA	1
15-5		PAOSE	6240-00-892-4420	96906	MS25252C7A	LAMP, GLOW	EA	1
15-5		PAOSE	6210-0	72619	181-0931-003	LENS, RED	EA	1
15-5		PAPFE	6145-00-578-7518	81349	M5086/1-18-9	WIRE, ELECTRICAL	FT	V
15-5		PAPFE	5970-00-088-2975	81349	M23053/5-104-9	INSULATING SLEEVING	FT	V
15-5		XAPFE		72619	181-8836-09-553	HOUSING, LIGHT	EA	1
15-5	31	XBOSE		97403	13216E7603	PLATE, WARNING	EA	1



WIRING DIAGRAM

DESIGNATION	FIND NO.	PART NO	DESCRIPTION
TB1	19 REF	13211E4775	TERMINAL BOARD
SI	2 REF	13205E5024	SWITCH, ROTARY, 200 AMP
W1	—	13212E3584-N	CABLE
W2	—	13212E3585-N	CABLE
W3	33	13212E3585-1	LEAD, ELECTRICAL
W4	34	13212E3587-2	LEAD, ELECTRICAL
W5	35	13212E3586-3	LEAD, ELECTRICAL
XDS1	31 REF	13212E3581-1	LIGHT AND WIRE
XDS2	29 REF	13212E3581-2	LIGHT AND WIRE

Figure 15-6 Wiring Diagram, Distribution Box

CHAPTER 16

POWER PLANT, ELECTRIC, TRAILER MOUNTED, AN/MJQ-25

Section I. DESCRIPTION AND DATA

16-1. Description.

a. General. The AN/MJQ-25, National Stock Number 6115-01-153-7742, Power Plant is comprised of two generator sets, MEP-112A, NSN 6115-00-465-1027.

b. Function. The AN/MJQ-25 Power Plant is used to supply power for FIREFINDER.

c. The following list of items are used to make up the AN/MJQ-25 Power Plant.

Qty	Description - List of Equipment	Identifying No.
1	Trailer, Model M103A3, 1½ ton.	(97403) 13226E5858
2	Generator Set, 10KW, 400 Hz, MEP-112A	MIL-G-52889 /3
1	Extinguisher, Fire, Hand, 2 3/4 lbs	MIL-E-52031
1	Hammer, Hand, Engineers, 8 lb (3.6 kg)	GGG-H-86
2	Rod, Ground, Driven (with attachments)	W-R-550
1	Switchbox Assembly	(97403) 13226E5859
1	Hammer, Slide, 36" long, 16" wide, NSN 5120-01-013-1676	(97403) 13226E7741

16-2. Tabulated Data.

a. Generator Set, Diesel Engine DOD Model MEP-112A. Refer to TM 5-6115-585-12.

b. Trailer - 1 1/2 ton, 2 wheel chassis - M103A. Refer to TM 9-2330-213-14. The trailer can be towed over improved roads with a load of 5,500 lbs (2038 kg) at speeds up to 50 mph (86.1 km/h) at speeds up to 50 mph (86.1 km/h) and over unimproved roads, trails, and open rolling terrain with loads up to 3,000 lbs (1437 kg) at speeds up to 30 mph (48.3 km/h). It will ford hard-bottom water crossings to any depth that can be negotiated by the towing vehicle. This trailer is designed to be towed by a 2 1/2 ton, 6x6 equipped with a towing pintle and with corresponding fire size.

16-3. Description of Major Components.

a. Trailer. M103A3 trailer described in TM 9-2330-203-14 has been modified for use with the 10KW, 400 Hz Generator Set as follows:

(1) Taillight and stoplight assembly have been moved from trailer chassis to trailer flatbed.

(2) Fire extinguishers and mounting brackets are located on each fender.

(3) One support leg has been added to rear of the trailer in the center.

(4) Switchbox Assembly is located on the right-hand fender, and is connected to each generator set by use of interconnecting cables. A rotary switch is used to select the desired generator set to supply the load.

Section II. OPERATING INSTRUCTIONS

16-4. Inspecting and Servicing Equipment.

a. Generator Set. Perform the inspection and servicing procedures as described in TM 5-6115-585-12.

b. Trailer. Perform the inspection and servicing procedures as described in TM 9-2330-213-14.

(2) Set brakes and block wheels securely to prevent any movement.

(3) Pull leg supports and middle support for firm contact with ground.

WARNING

Do not operate the generator set until it has been connected to a suitable ground. Serious injury or death by electrocution can result from operating an ungrounded generator set.

16-5. Installation.

a. Trailer.

(1) Locate the trailer on a surface as level as possible in order for the generator set to operate efficiently.

16-6. Starting.

a. Set the rotary switch located on the switchbox assembly to the position of the generator set you are going to start.

b. Start the generator set as instructed in paragraph 2-4 in TM 5-6115-585-12.

16-7. Shutting Down Generator Set. Stop the generator set as instructed in paragraph 2-6 in TM 5-6115-585-12.

16-8. Switchbox Assembly Maintenance Instructions. (See Figure 16-3).

WARNING

Generator set must be shut-down when performing the following test. Serious injury or death by electrocution could result if test is performed with generator set running.

a. Test.

(1) Remove screws (25), washers (26, 27) and lift cover (8) from switchbox to gain access to rotary switch.

(2) Use an ohmmeter and check for continuity between rotary switch terminals. Ohmmeter should show continuity when rotary switch is set for either generator set 1 or 2. With the rotary switch set for generator set 1, check rotary switch terminals for generator set 1, no continuity should exist. Reverse test for generator set 1 and 2. Replace rotary switch if it does not conform to this test. If rotary switch is OK, install cover onto switchbox and secure with screws (25) and washers (26, 27).

b. Repair

(1) Remove lens cover from light and remove bulb from light and wire.

(2) Install new bulb in light socket and install lens cover.

(3) Remove screws (25), washers (26, 27) and lift cover (8) from box to gain access to rotary switch.

(4) Tag and disconnect wiring from rotary switch. Remove screw from rotary switch and remove knob.

(5) Remove nuts (6), flatwashers (7), screws (11), packings (9, 10) and remove rotary switch (2) from cover (8).

(6) Install new rotary switch (2) onto cover (8) install packings (9, 10), and secure rotary switch with screws (11), flatwashers (7) and nuts (6).

(7) Install knob on rotary switch and secure with screw.

(8) Connect wiring to rotary switch terminals and remove tags.

(9) Install cover onto switchbox and secure screws (25) and washers (26, 27).

16-9 Shipping. Tiedown instructions for shipping power units by railroad transportation are illustrated in Appendix C. Instructions for transportation by CH-47 Helicopter are also illustrated in Appendix.

16-10. Cleaning. The power unit or power plant shall be cleaned by wiping dirt and dust off the equipment with a clean, dry cloth. Also, use a brush on hard-to-remove caked dirt.

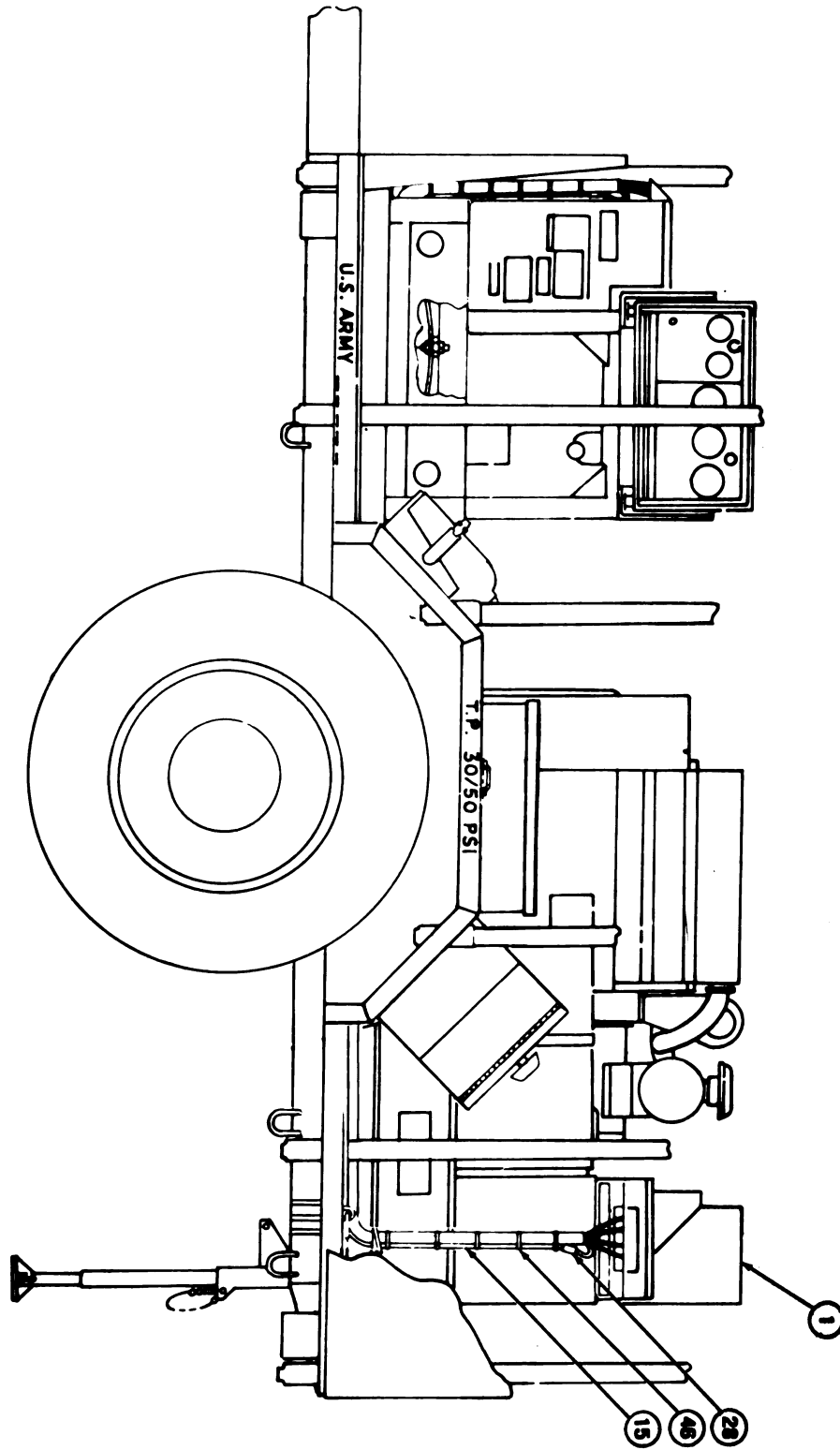


Figure 16-1. Power Plant, AN/MJQ-35 Side View (Sheet 2 of 3)

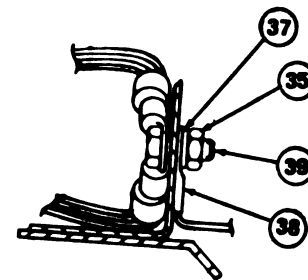
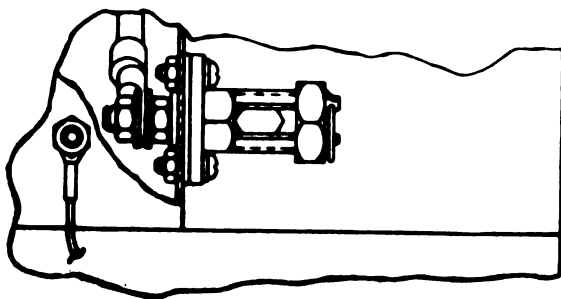
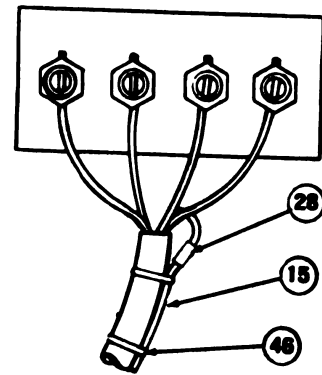
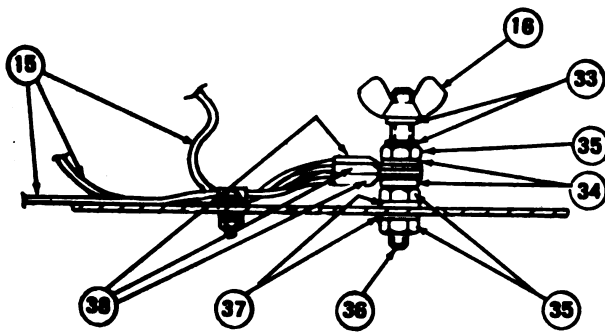
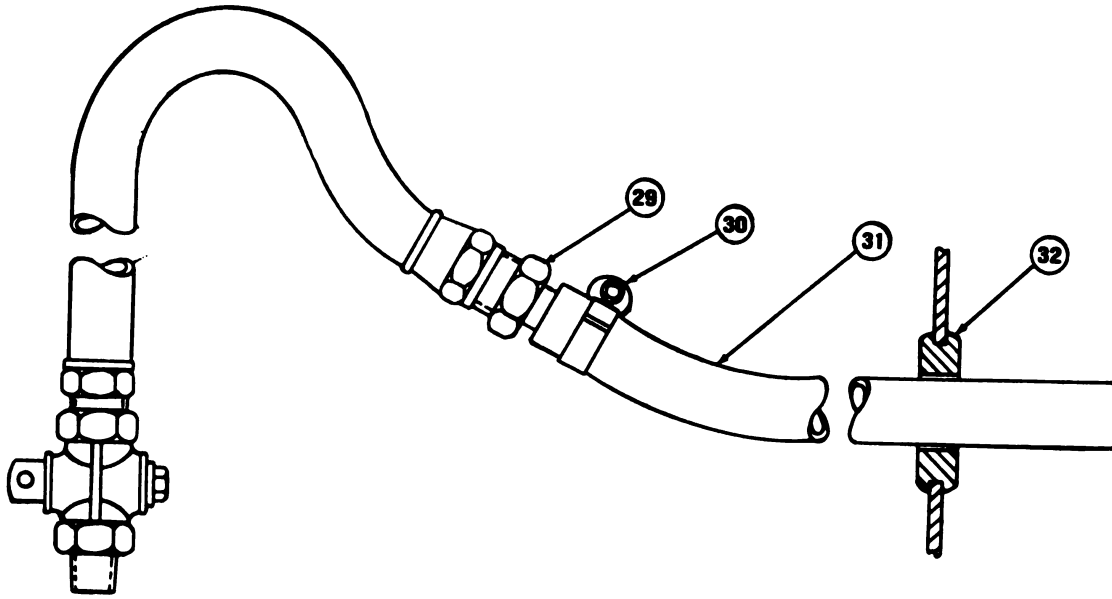


Figure 16-1. Accessory Mounting and Grounding Stud (Sheet 3 of 3)

TM 5-6115-604-14&P
TO 35C2-3-1-461

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
16-1	1	PAFZZ	6115-00-465-1027	30554	70-113A	GENERATOR SET, 10 KW, 400 HZ	EA	2
16-1	2	PAFZZ	5305-00-071-2070	96906	MS90728-114	SCREW, CAP, HEXAGON HEAD: GENERATOR SET MTG	EA	8
16-1	3	PAFZZ	5310-00-584-5272	96906	MS35338-48	WASHER, LOCK: GENERATOR SET MTG	EA	8
16-1	4	PAFZZ	5310-01-150-5922	97403	13206E4482-2	WASHER, BEVEL: GENERATOR SET MTG	EA	8
16-1	5	XBOZZ		97403	13220E4463-2	PLATE, IDENTIFICATION	EA	1
16-1	6	PAOZZ	5305-00-253-5614	96906	MS21318-20	SCREW, DRIVE	EA	4
16-1	7	XBFZZ		97403	13220E4457-2	RAIL, MOUNTING	EA	1
16-1	8	PAFZZ	5305-00-915-8087	96906	MS18154-113	SCREW, CAP, HEXAGON HEAD: RAIL MTG	EA	16
16-1	9	PAFZZ	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT: RAIL MTG	EA	32
16-1	10	PAFZZ	5310-00-225-6993	96906	MS51922-33	NUT, SELF-LOCKING, HEXAGON: RAIL MTG	EA	16
16-1	11	PAFZZ		96906	MS90725-31	SCREW, CAP, HEXAGON HEAD	EA	4
16-1	12	PAFZZ		96906	MS35338-45	WASHER, LOCK	EA	4
16-1	13	PAFZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	16
16-1	14	PAFZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING, HEXAGON	EA	8
16-1	15	PAOZZ		81348	QQ-W-343-C6B1B	WIRE, ELECTRICAL	FT	V
16-1	16	PAOZZ	5310-00-543-4717	96906	MS35425-28	NUT, PLAIN, WING	EA	1
16-1	17	PAOZZ	9905-01-085-7703	97403	13205E4918	PLATE, IDENTIFICATION, GROUND	EA	1
16-1	18	PAFZZ	5340-00-930-1754	96906	MS21334-2	CLAMP, LOOP	EA	1
16-1	19	PAFZZ	5305-00-984-6211	96906	MS35206-264	SCREW, MACHINE	EA	1
16-1	20	PAFZZ	5310-00-584-5272	96906	MS35338-43	WASHER, LOCK	EA	1
16-1	21	PAFZZ	5310-00-809-8546	96906	MS27183-8	WASHER, FLAT	EA	2
16-1	22	PAFZZ	5310-00-934-9758	96906	MS35649-202	NUT, PLAIN, HEXAGON	EA	1
16-1	23	XAFZZ		97403	13220E5288-2	STRAP ASSEMBLY	EA	2
16-1	24	PAFZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING, HEXAGON	EA	4
16-1	25	PAOZZ	4210-00-555-8837	19207	10916537	EXTINGUISHER, FIRE	EA	2
16-1	26	PAFZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEXAGON	EA	8
16-1	27	XBFZZ		97403	13220E4458-2	RAIL, MOUNTING, ROADSIDE	EA	1
16-1	28	PAFZZ	5970-00-914-3118	81349	M23053/5-109-0	INSULATION SLEEVING	IN	V
16-1	29	PAFZZ	4730-00-804-8416	96906	MS24399-20	REDUCER, TUBE	EA	2
16-1	30	PAFZZ	4730-00-908-3194	96906	MS35842-11	CLAMP, HOSE	EA	2
16-1	31	PAFZZ	4720-00-809-2889	03481	C54720-0018FR	HOSE, NONMETALLIC	IN	V
16-1	32	PAFZZ	5325-00-903-5909	96906	MS35489-112	GROMMET, NONMETALLIC	EA	2
16-1	33	PAFZZ	5310-00-004-9129	88044	AN961-6165	WASHER, FLAT	EA	4
16-1	34	PAFZZ	5310-00-187-2413	88044	AN961-6161	WASHER, FLAT	EA	4
16-1	35	PAFZZ	5310-01-026-5824	96906	MS16203-39	NUT, PLAIN, HEXAGON	EA	4
16-1	36	PAFZZ	5307-00-045-8172	97403	13214E1223	STUD, CONTINUOUS THREAD	EA	1
16-1	37	PAFZZ	5310-00-948-9708	96906	MS35335-91	WASHER, LOCK	EA	3
16-1	38	PAFZZ	5940-00-115-4992	96906	MS20659-110	TERMINAL, LUG	EA	6
16-1	39	PAFZZ	5305-00-543-4718	96906	MS35309-358	SCREW, CAP, HEXAGON HEAD	EA	1
16-1	40	PAOZZ	5120-00-251-4489	81348	GGGH86TYPESACLA SA3	HAMMER, HAND	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SNR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	
16-1	41	PAOZZ		96906	MS51967-5	NUT, PLAIN, HEXAGON	EA	4
16-1	42	PAOZZ		81348	W-R-550	ROD, GROUND	EA	2
16-1	43	PAOZZ	5120-01-013-1676	97403	13226E7741	SLIDE HAMMER, GROUND	EA	1
16-1	44	XAOZZ		97403	13214E1235	BRACKET, FIRE EXTINGUISHER	EA	2
16-1	45	PAOZZ	5310-00-809-4061	96906	MS27183-15	WASHER, FLAT	EA	4
16-1	46	PAOZZ	5975-00-074-2072	96906	MS3367-1-9	STRAP, TIEDOWN, ELECTRICAL	EA	V
16-1	47	PAOZZ		96906	MS24693-S273	SCREW, MACHINE	EA	8
16-1	48	PAOZZ		96906	MS21046-C3	NUT, SELF-LOCKING, HEXAGON	EA	8
16-1	49	PAOZZ		96906	MS27183-42	WASHER, FLAT	EA	8
16-1	50	PAOZZ		97403	13220E5288-5	STRAP ASSEMBLY	EA	2
16-1	51	PAOZZ		97403	13226E7737	BOX, ACCESSORY	EA	1
16-1	52	PAOZZ		96906	MS51939-3	LOOP, STRAP FASTENER	EA	4

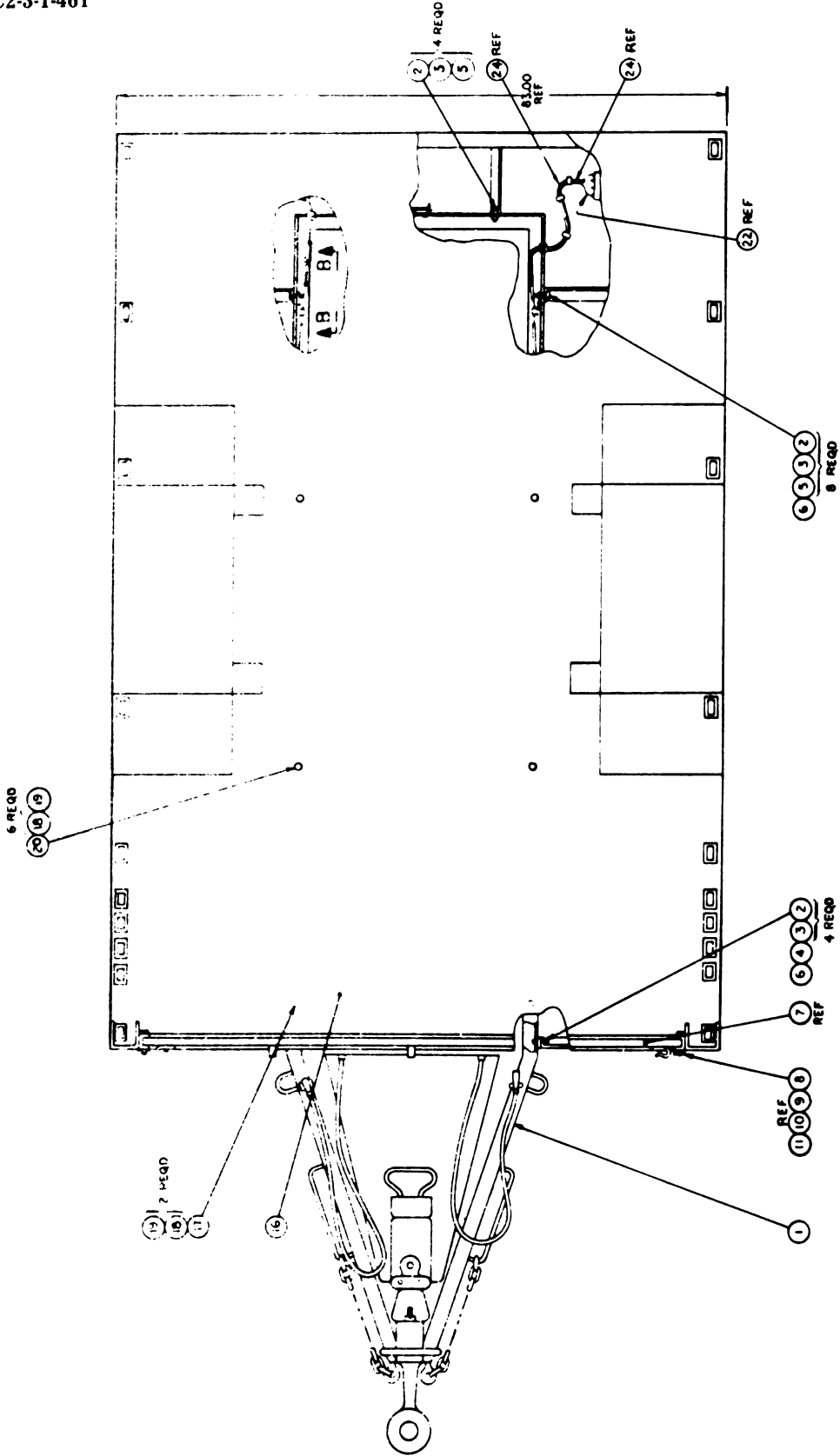


Figure 16-2. Trailer, Flatbed Assembly (Sheet 1 of 2)

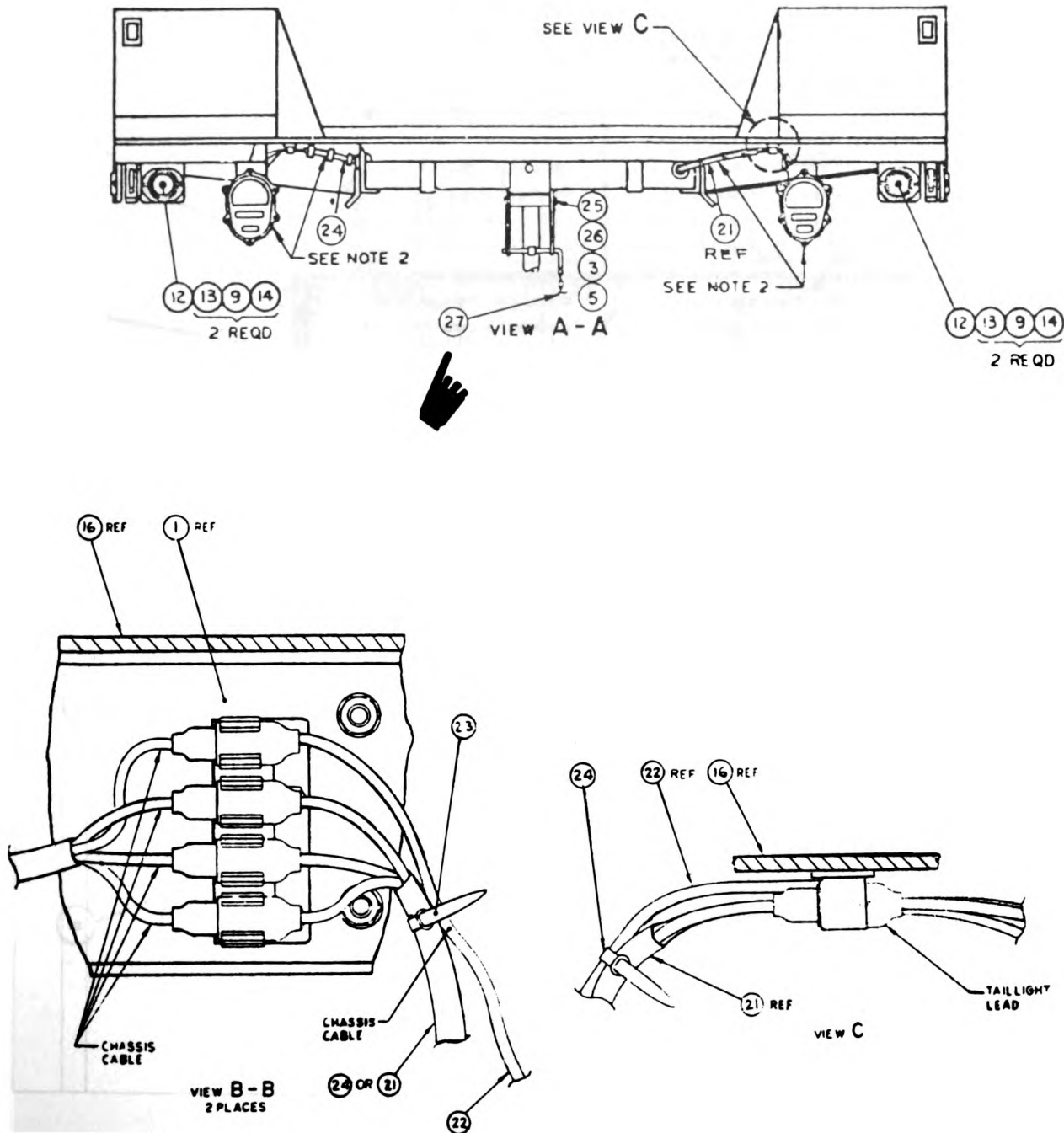


Figure 16-2. Trailer, Flatbed Assembly (Sheet 2 of 2)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO	(b) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
16-2		XBPFH		97403	13226E5858	TRAILER, FLATBED		EA 1
16-2	1	XAPFF		97403	13216E7431	CHASSIS, TRAILER		EA 1
16-2	2	PAOZZ	5305-00-269-3211	96906	MS90725-60	SCREW, CAP, HEXAGON HEAD		EA 16
16-2	3	PAOZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT		EA 22
16-2	4	PAOZZ	5310-00-637-9541	96906	MS35338-46	WASHER, LOCK		EA 4
16-2	5	PAOZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING, HEXAGON		EA 15
16-2	6	XBFZZ		97403	13212E3590	SHIM		EA V
16-2	7	XBOZZ	2510-00-919-7866	97403	13216E7433	PLATE, FRONT SHIELD		EA 1
16-2	8	PAOZZ	5305-00-721-8010	96906	MS35307-314	SCREW, CAP, HEXAGON HEAD		EA 2
16-2	9	PZOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT		EA 16
16-2	10	PAOZZ	5310-00-933-8121	96906	MS35338-139	WASHER, LOCK		EA 2
16-2	11	PAOZZ	5305-00-080-8495	96906	MS35425-39	NUT, PLAIN, WING		EA 2
16-2	12	PAOZZ	9905-00-205-2795	96906	MS35387-1	REFLECTOR, INDICATING		EA 4
16-2	13	PAOZZ	5305-00-068-0500	96906	MS90725-3	SCREW, CAP, HEXAGON HEAD		EA 12
16-2	14	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING, HEXAGON		EA 12
16-2	15	PAOZZ	9905-00-202-3639	96906	MS35387-2	RELECTOR, INDICATING		EA 2
16-2	16	XAPFN		97403	13226E5857	FLATBED TRAILER		EA 1
16-2	17	PAOZZ		97403	13218E0021-41	SCREW, CAP, HEXAGON HEAD		EA 2
16-2	18	PAOZZ	5310-00-823-8803	96906	MS27183-21	WASHER, FLAT		EA 8
16-2	19	PAOZZ	5310-00-269-4040	96906	MS51922-49	NUT, SELF-LOCKING, HEXAGON		EA 8
16-2	20	PAOZZ	5305-00-724-5911	96906	MS90725	SCREW, CAP, HEXAGON HEAD		EA 6
16-2	21	PBFFF		97403	13216E7479-2	CABLE ASSEMBLY		EA 1
16-2	22	PBFFF		97403	13216E7476	LEAD, ELECTRICAL		EA 2
16-2	23	PAOZZ	5975-00-074-2072	97403	MS3367-1-9	STRAP, TIEDOWN, ELECTRICAL		EA V
16-2	24	PBFFF		97403	13216E7479-1	CABLE ASSEMBLY		EA 1
16-2	25	XBOZZ	2590-00-420-8929	97403	13214E1206	JACK, LEVELING-SUPPORT		EA 1
16-2	26	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEXAGON HEAD		EA 3

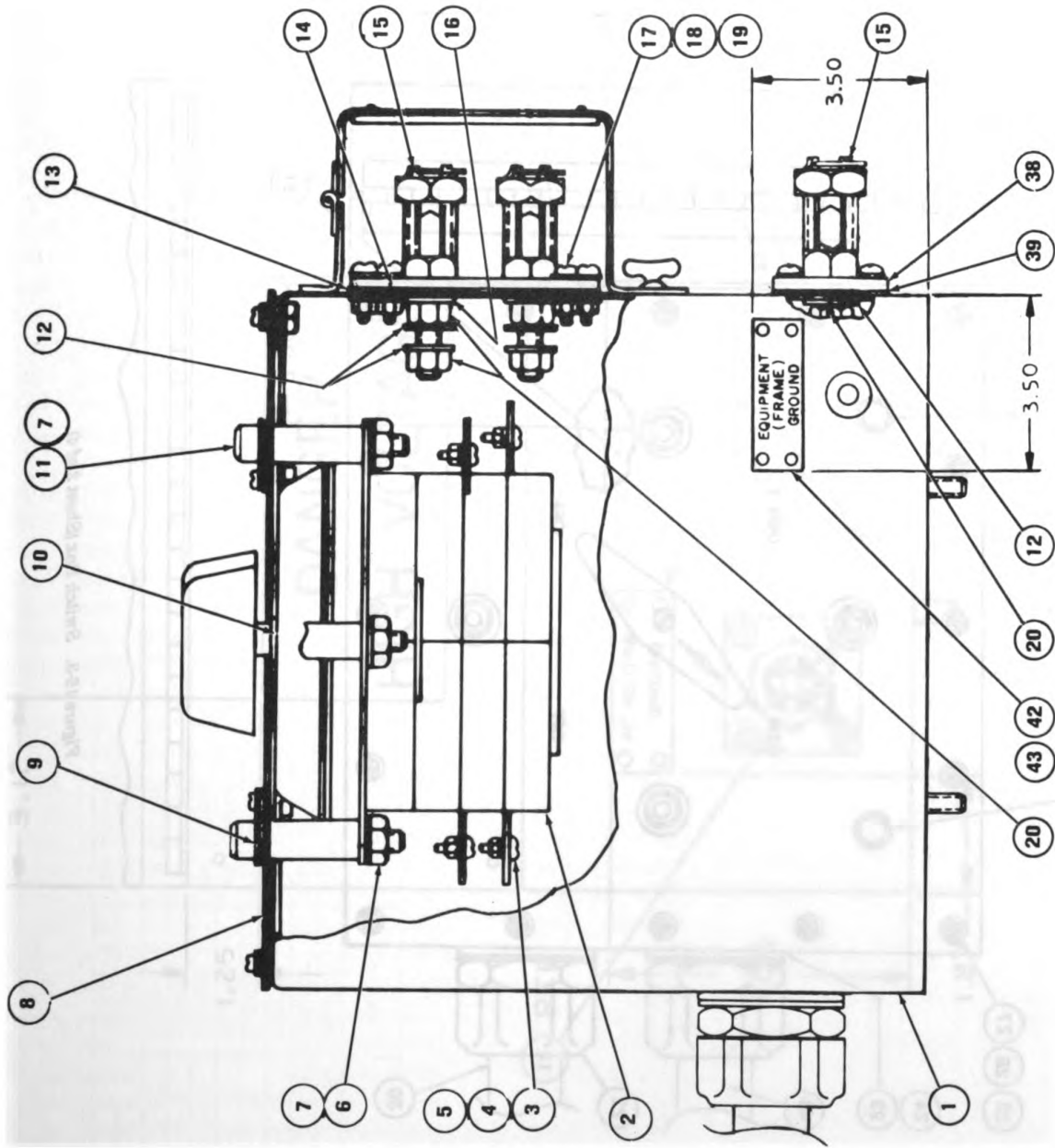


Figure 16-3. Switch Box (Sheet 1 of 4)

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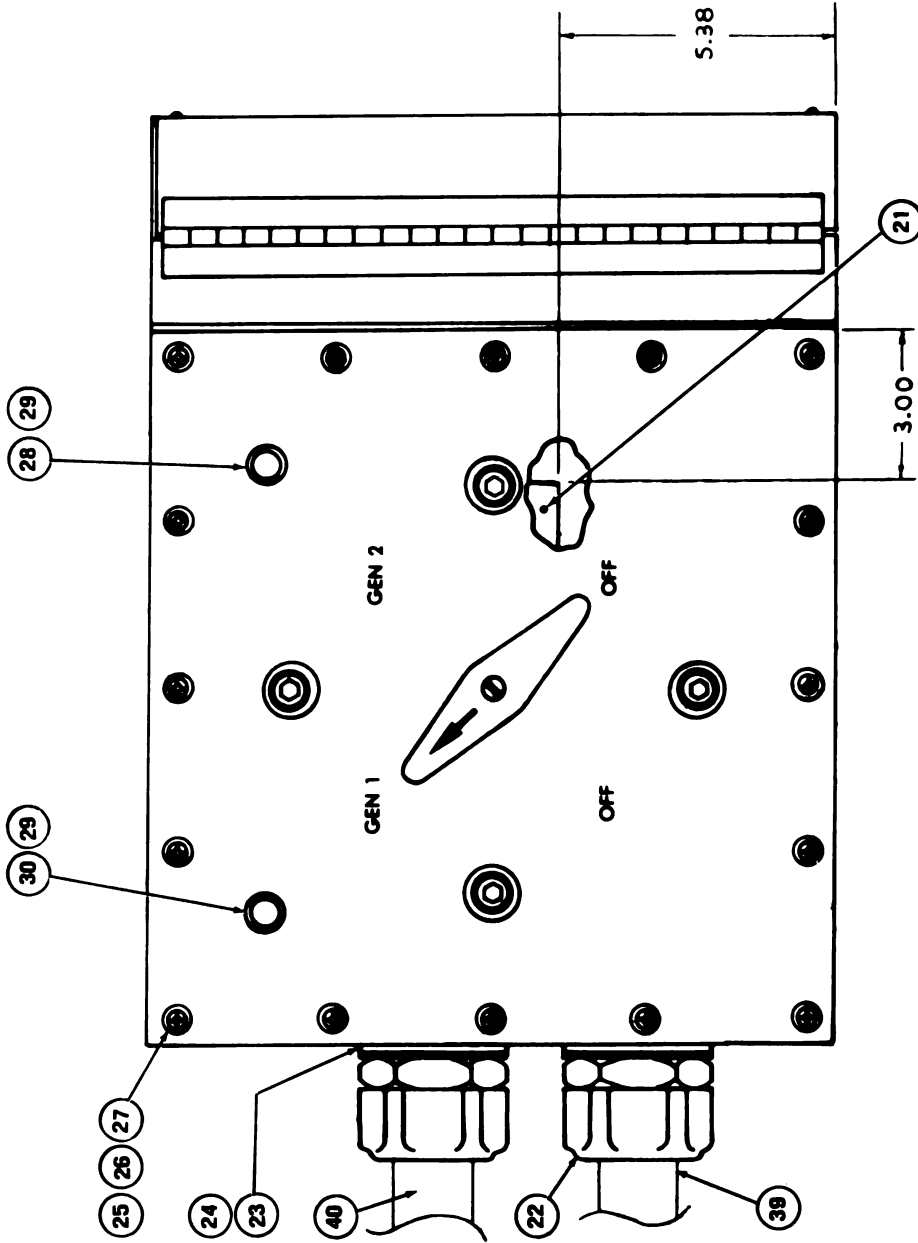


Figure 16-3. Switch Box (Sheet 2 of 4)

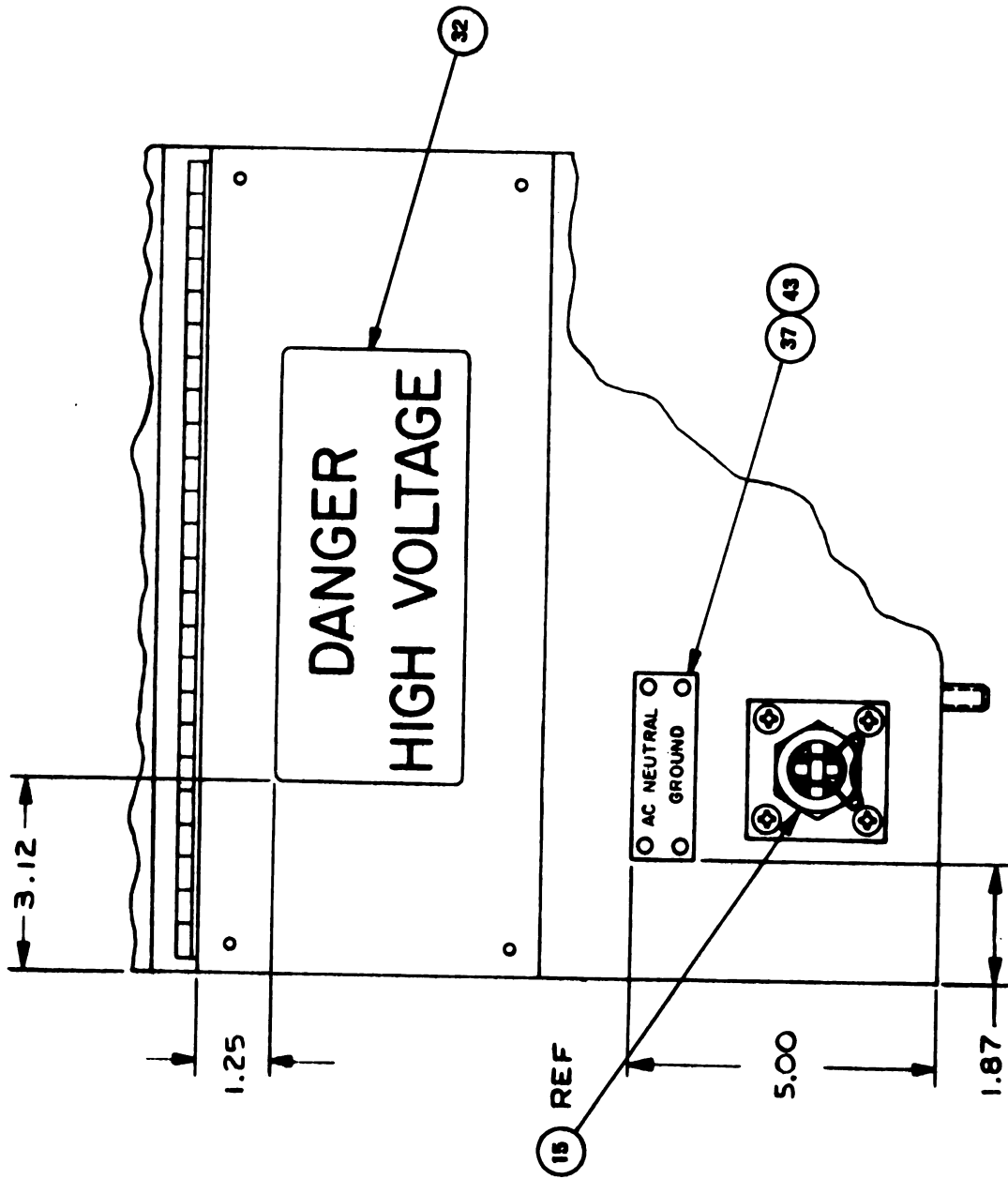
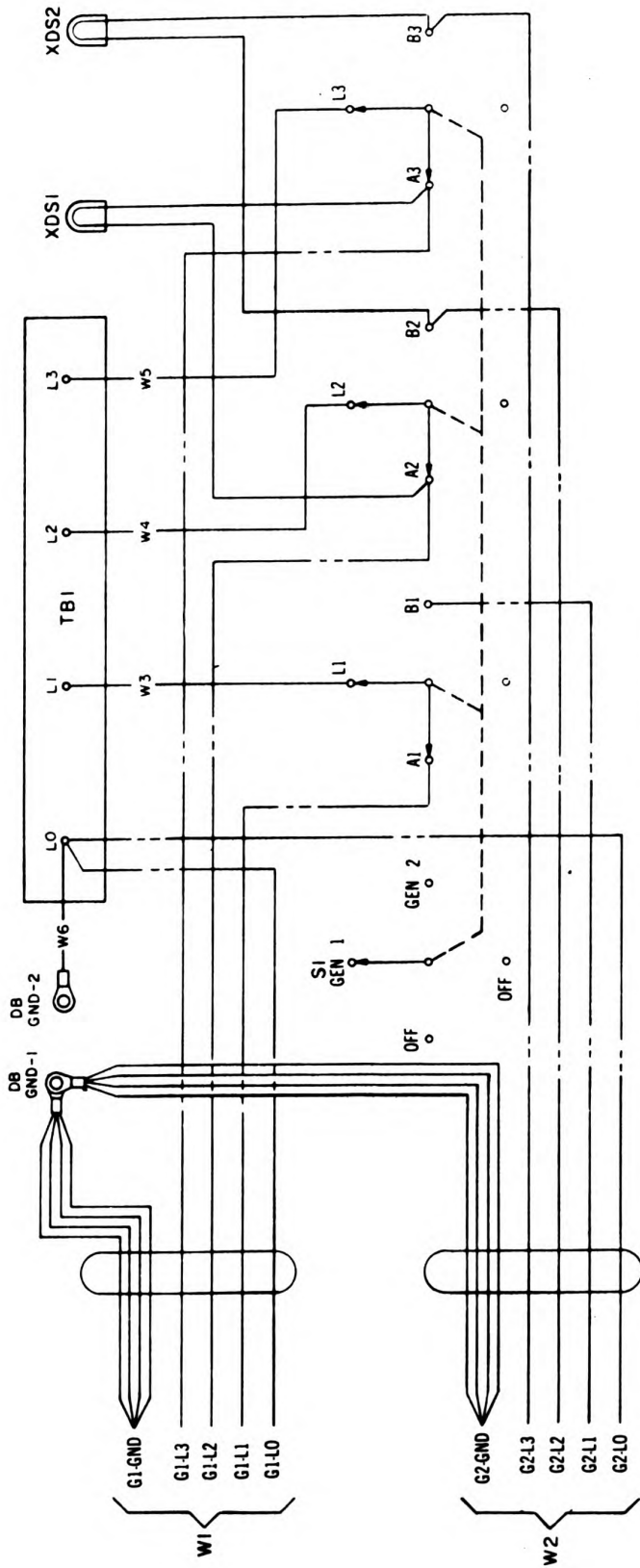


Figure 16-3. Switch Box (Sheet 3 of 4)



WIRING DIAGRAM

DESIGNATION	FIND NO	PART NO	DESCRIPTION
TB1	14 REF	13211E4775	TERMINAL BOARD
S1	2 REF	13226E5024	SWITCH ROTARY 200 AMP
W1	39	13226E5888 1	CABLE ASSEMBLY
W2	40	13226E5858 2	CABLE ASSEMBLY
W3	32	13212E3586 1	LEAD ELECTRICAL
W4	33	13212E3586 2	LEAD ELECTRICAL
W5	34	13212E3586 3	LEAD ELECTRICAL
W6	41	13212E3586 4	LEAD ELECTRICAL
XDS1	31 REF	13212E3581 1	LEAD ELECTRICAL
XDS2	29 REF	13212E3581 2	LIGHT AND WIRE

Figure 16-3. Switch Box (Sheet 4 of 4)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FBCM	PART NUMBER	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
16-3		XBFFF		97403	13226E5859	DISTRIBUTION BOX	EA	1
16-3	1	XAFZE		97403	13226E5861	BOX	EA	1
16-3	2	PAFZE		97403	13205E5024	SWITCH, ROTARY	EA	1
16-3	3	PAFZE	5305-01-135-7258	96906	MS35215-95	SCREW, MACHINE	EA	9
16-3	4	PAFZE	5310-00-913-9776	96906	MS35335-91	WASHER, LOCK	EA	9
16-3	5	PAFZE	5310-00-411-0687	96906	MS35650-3385T	NUT, PLAIN, HEXAGON	EA	9
16-3	6	PAFZE	5310-00-225-6993	96906	MS1922-33	NUT, SELF-LOCKING, HEXAGON	EA	4
16-3	7	PAFZE	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT	EA	8
16-3	8	XBFEZ		96906	13212E3579	COVER	EA	1
16-3	9	PAFZE	5330-00-618-5361	96906	MS28775-015	PACKING, PREFORMED	EA	4
16-3	10	PAFZE	5330-00-579-7916	96906	MS28775-115	PACKING, PREFORMED	EA	1
16-3	11	PAFZE	5305-00-983-7467	96906	MS16997-149	SCREW, CAP, SOCKET HEAD	EA	4
16-3	12	PAFZE		88044	AN961-8168	WASHER, FLAT, ELECTRICAL	EA	10
16-3	12	PAFZE	5310-00-465-2719	88044	AN961-817T	WASHER, FLAT, ELECTRICAL	EA	10
16-3	13	PAFZE		97403	13212E3583	GASKET	EA	1
16-3	14	XBFEZ		97403	13211E4775	TERMINAL BOARD	EA	1
16-3	15	PAOZE	5940-01-141-3671	96906	MS39347-4	TERMINAL STUD	EA	5
16-3	16	PAFZE	5310-00-042-4229	96906	MS35333-113	WASHER, LOCK	EA	5
16-3	17	PAFZE	5305-00-988-1727	96906	MS35206-283	SCREW, MACHINE	EA	10
16-3	18	PAFZE	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	10
16-3	19	PAFZE	5310-00-088-1251	96906	MS1922-1	NUT, SELF-LOCKING, HEXAGON	EA	10
16-3	20	PAFZE	5310-00-006-8286	96906	MS16203-41	NUT, PLAIN, HEXAGON	EA	10
16-3	21	XDFZE		97403	13212E3587	PLATE, INFORMATION	EA	1
16-3	22	PAFZE		97403	13218E5149-10	TUBE, STUFFING	EA	2
16-3	23	PAFZE	5330-01-164-2351	97403	13218E5140-5	GASKET	EA	2
16-3	24	PAFZE		97403	13218E5139-5	WASHER	EA	2
16-3	25	PAFZE	5305-00-989-7435	96906	MS35207-264	SCREW, MACHINE	EA	16
16-3	26	PAFZE	5310-00-045-3296	96906	MS35388-43	WASHER, LOCK	EA	16
16-3	27	PAFZE	5310-00-014-5850	96906	MS27183-42	WASHER, FLAT	EA	16
16-3	28	PAFZE	6210-00-253-0688	97403	13212E3581-2	LIGHT, INDICATOR	EA	1
16-3	29	PAFZE	5940-00-143-4773	96906	MS25036-105	TERMINAL LUG	EA	4
16-3	30	PAFZE	6210-00-406-1398	97403	13212E3581-2	LIGHT, INDICATING	EA	1
16-3	31	XBOZE		97403	13216E7603	PLATE, WARNING	EA	1
16-3	32	PAFZE	6150-01-152-8315	97403	13212E3586-1	LEAD, ELECTRICAL	EA	1
16-3	33	PAFZE		97403	13212E3586-2	LEAD, ELECTRICAL	EA	1
16-3	34	PAFZE		97403	13212E3586-3	LEAD, ELECTRICAL	EA	1
16-3	35	PAFZE		81349	MIL-T-713TYPENA	TWINE	IN	V
16-3	36	XBOZE		97403	1322E5889	PLATE, INFORMATION	EA	1
16-3	37	XBFEZ		97403	13226E6011	TERMINAL BOARD	EA	1
16-3	38	PAFZE		97403	13226E6012	GASKET, TERMINAL	EA	1
16-3	39	PAFZE		97403	13226E5888-1	CABLE ASSEMBLY	EA	1
16-3	40	PAFZE		97403	13226E5888-2	CABLE ASSEMBLY	EA	1

TM 5-0115-504-148P
TO 36C2-9-1-461

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) FSCM	(5) PART NUMBER	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
(a) FIG NO	(b) ITEM NO							
16-3	41	PAF2Z		97403	13212E3586-4	LEAD, ELECTRICAL	EA	1
16-3	42	XBOZZ		97403	13226E5889-2	PLATE, INFORMATION	EA	1
16-3	43	PAOZZ		96906	MS16535-153	RIVET	EA	8

16-16

CHAPTER 17

POWER UNIT, PU789/M

Section I. DESCRIPTION AND DATA

17-1. Description.

a. General. Power Unit, PU789/M, NSN 6115-01-208-9827, 13227E5850, is made up of one 30 KW, 400 Hz, Tactical Precise, Diesel Engine-Driven (DED) Generator Set, DOD Model MEP-114A, with PATRIOT application kit, mounted on an enhanced M353 3-1/2 ton trailer.

b. Function. The PU789/M supplies electrical power to the PATRIOT Information Coordination

Central (ICC) and its Antenna Mast Group (AMG) or to the Communications Relay Group (CRG) and its Antenna Mast Group.

c. The field configuration PU789/M includes two interconnected power units as shown in Figure 17-1, PU789/M Field Configuration. The second unit is designated the standby unit.

d. The equipment listed below is used with the Power Unit, PU789/M.

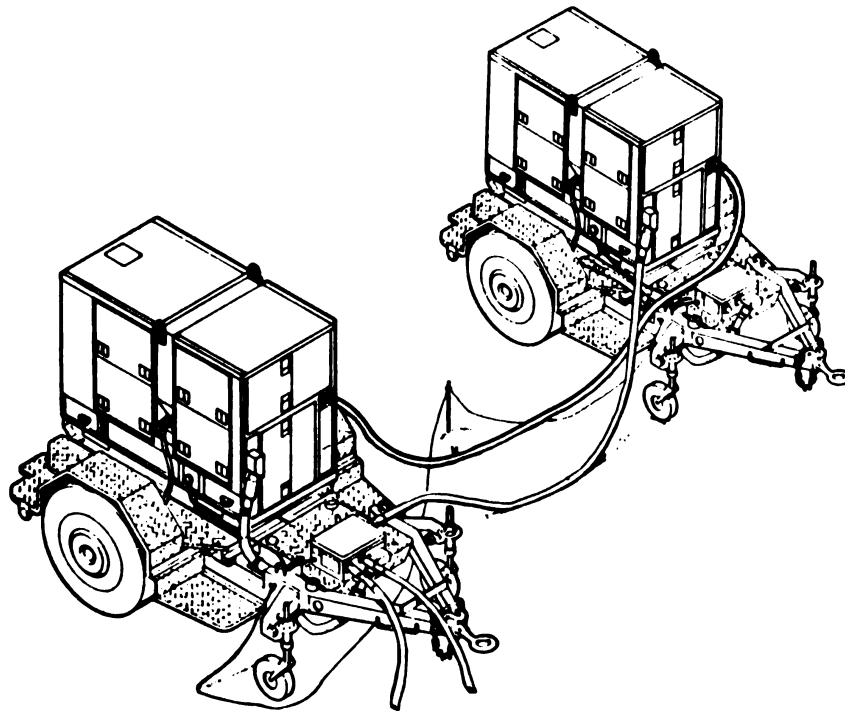


Figure 17-1. PU789/M Field Configuration

TM 5-6115-594-14&P
 TO 35C2-3-1-461

Qty	Description - List of Equipment	Identifying No.
2 sets	Rod, Ground, three 3 ft (0.92 m) sections (per/set), NSN 5975-00-296-5324	W-R-550 Type III
1	Slide Hammer	P74-144
1	Ground Wire Assembly	(97403) 13220E0697-3
1	Fuel Line	(97403) 13227E5882
1	Generator Set, 30 KW, 400 Hz, Military Design, DOD MEP-114A, NSN 6115-00-118-1248	(30554) 70-114
1	Trailer, Enhanced, Model M353, 3-1/2 ton, NSN 2330-00-542-2831	(97403) 13227E5851
1	Power/Control Cable, 75 ft (22.8 m) long	(97403) 13227E5877-1
1	Control Cable, 75 ft (22.8 m) long	(97403) 13222E1440
1	P10, P11 Auxiliary Cable, 25 ft (7.6 m) long	(97403) 13227E5877-2
1	Adapter Plate Assembly	(97403) 13227E5859
1	J11, P12 Wiring Harness	(97403) 13227E5843
1	Kit, Intervehicle Power Cable	(19207) 11682379-1
1	Paralleling Cable, 25 ft (7.6 m) long	(30554) 69-772
1	Auxiliary Fuel Line, 25 ft (7.6 m) long	(30554) 69-668

17-2. Tabulated Data.

a. Refer to TM 5-6115-465-12 for additional information concerning DED Generator Set, DOD Model MEP-114A.

b. Power Unit Dimensions and Weight:

Length	188 in. (477.5 cm)
Width	96 in. (243.8 cm)
Height	84.5 in. (214.6 cm)
Weight	(dry) 6880 lb (3087.2 kg)

17-2 Change 2

c. Trailer. The generator is mounted on an enhanced M353, 3-1/2 ton, two-wheel trailer. Refer to TM 9-2330-247-14&P. The trailer can be towed over prepared roads with loads of 8,000 pounds (3632 kilograms) at a maximum speed of 50 miles per hour (80.5 kilometers per hour). Over unimproved roads, trails, and open rolling terrain, the load limit is 7,000 pounds (3178 kilograms) at a maximum speed of 25 miles per hour (40.2 kilometers per hour). It will ford hard-bottom water crossings to any depth that can be negotiated by the towing vehicle.

17-3. Description of Major Components.

a. Generator Set. The 30 KW, 400 Hz generator set has been enhanced by adding a PATRIOT application kit. This kit consists of an adapter plate assembly and associated wiring, which is mounted to the front lower left corner of the generator set.

b. Trailer.

(1) The M353 trailer has been enhanced for use with the 30 KW, 400 Hz generator set as follows:

(a) Steps. Steps have been added to each corner of the trailer for easier access to the generator set.

(b) Power Distribution Unit (PDU). A PDU is mounted at the front of the trailer to provide interface circuitry to the ICC/CRG and standby power unit.

(c) Fuel Tank Assembly. A 93-gallon (352-liter) fuel tank is mounted between the trailer frame rails, under the generator set.

(d) Storage Tray. A storage tray is mounted to the trailer chassis to allow storage of power unit cables and support equipment.

(e) Walkways. Walkway platforms are placed at each side of the trailer to provide access to the generator set.

(f) Generator Supports. Four supports are mounted to the trailer chassis to support and mount the generator set.

(2) Refer to TM 9-2330-247-14&P for the description of the major components of the trailer.

c. Power Distribution System. The field configuration consists of two PU789/M power units. The PDU interconnects the two power units allowing either unit to supply 120/208 volts AC, 400 Hz electrical power to the ICC or CRG. The connection between power units is accomplished by a 25-foot P10, P11 auxiliary cable from the primary power unit to the secondary power unit's generator adapter plate assembly. The PDU is connected to the ICC/CRG by a 75-foot power/control cable and a 75-foot control cable. The two cables form an interlock circuit which opens the PDU's output contactor if either cable is disconnected. The PDU also contains circuitry that allows the ICC/CRG to control the on-line generator set output contactor, to identify a low fuel condition, and to indicate which power unit is on-line.

d. Fuel Distribution System.

(1) The power unit has two fuel tanks: a 93-gallon (352-liter) tank, and a 26-gallon (98.4-liter) set tank. A manual fuel selector valve allows the generator set fuel pump to draw fuel from either tank depending on the valve position. The primary fuel supply is the 93-gallon (352-liter) fuel tank. It is located under the generator set. To draw fuel from it, the fuel selector valve must be set to the AUXILIARY position. A fuel-level sensor is located in the 93-gallon (352-liter) fuel tank. It is electrically connected to the ICC/CRG control panel where a yellow light

is displayed when the sensor closes. The yellow light indicates that approximately 13.5 gallons (51.1 liters) of fuel remain.

(2) To draw fuel from the 26-gallon (98.4-liter) set tank, the fuel selector valve must be in the SET TANK position. Fuel to operate the generator set will then be pumped from the set tank. The set tank has a low fuel-level sensor which turns on a light on the generator set control panel only. Fuel filtering is accomplished by filters in the generator set. For information on the generator set fuel system, refer to TM 5-6115-465-12.

Section II. OPERATING INSTRUCTIONS

17-4. Inspecting and Servicing Equipment.

a. Generator Set. Refer to TM 5-6115-465-12.

b. Trailer. Refer to TM 9-2330-247-14&P.

c. Power Unit. Figure 17-2 shows locations of connectors and indicators. Table 17-1 lists them and explains their functions.

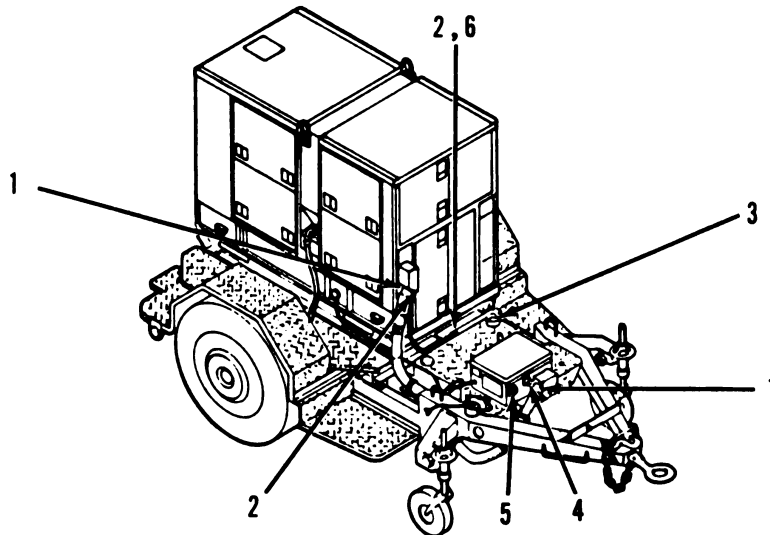


Figure 17-2. Power Unit Connectors and Indicators

Table 17-1. Power Unit Connectors and Indicators

Key	Connector or Indicator	Function
1	J3/P3	Connectors for P3 power/control cable. Provide power and control signals from generator set to PDU.
2	P4/P7	Connectors for fuel cable assembly. Provide low fuel signal between fuel tank and PDU.
3	Fuel-level gage	Provides a visual display of fuel level in the fuel tank.
4	.J6	Connector for control cable. Provides control signals between PDU and the ICC/CRG.
5	J1	Connector for power/control cable. Provides power and control signals to the ICC/CRG.
6	Fuel-level sensor	Electric float that activates the low-fuel signal in the ICC/CRG when fuel level drops to 13.5 gallons (51.1 liters) in the fuel tank.

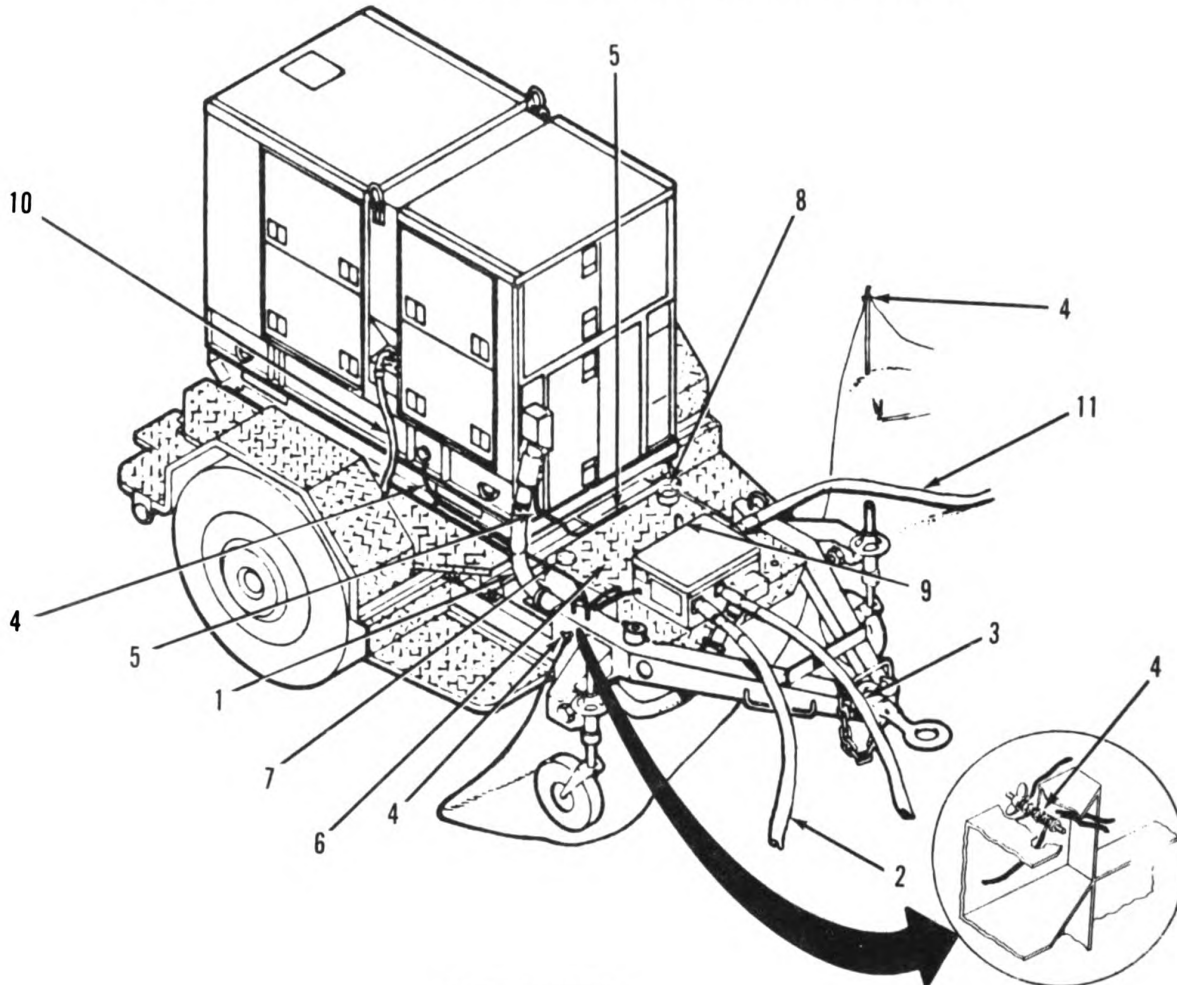
17-5. Preventive Maintenance Checks and Services.

a. Generator Set. Refer to TM 5-6115-465-12.

b. Trailer. Refer to TM 9-2330-247-14&P.

c. Power Unit. Preventive maintenance checks and services for Power Unit, PU789/M, are shown in Table 17-2.

Table 17-2. Preventive Maintenance Checks and Services



WARNING

Generator sets must be shut down before performing PMCS on electrical cables. Failure to do so could result in death or serious injury.

NOTE

If the equipment must be kept in continuous operation, check and service only those items that can be checked and serviced without disturbing operation. Perform the complete checks and services when the equipment can be shut down.

NOTE

Within designated interval, these checks are to be performed in the order listed.

Table 17-2. Preventive Maintenance Checks and Services (Cont)

B - Before

D - During

Item No.	Interval		Item to be Inspected	Procedures Check for and have repaired or adjusted as necessary	Equipment Is Not Ready/ Available If:
	B	D			
1	•		P3 Power/ Control Cable	Check for loose connector at J3 on generator adapter plate assembly and loose feed-through coupling at PDU.	Connector won't tighten, is damaged, or is missing parts. Bare wires are exposed.
2	•		Power/ Control Cable	Check power/control cable for loose connector P2 on ICC/CRG and loose connector P1 at PDU.	Connector(s) won't tighten, is damaged, or is missing parts. Bare wires are exposed.
3	•		Control Cable	Check for loose connections at PDU connector P6 and at ICC/CRG connector P5.	Connector(s) won't tighten, is damaged, or is missing parts. Bare wires are exposed.
4	•		Ground Wire Assemblies	Check for loose, broken, or damaged wire connections at generator set, PDU, trailer frame, and ground rod.	Connector(s) won't tighten. Wire(s) is damaged.
5	•		Fuel Cable Assembly	Check P4 for loose connections at connector J4 at generator set adapter plate and P7 at fuel-level sensor (J7).	Connector(s) won't tighten, is damaged, or is missing parts. Bare wires are exposed.

Table 17-2. Preventive Maintenance Checks and Services (Cont)

B - Before

D - During

Item No.	Interval		Item to be Inspected	Procedures Check for and have repaired or adjusted as necessary	Equipment Is Not Ready/ Available If:
	B	D			
6	•	•	Fuel Tank	Check fuel tank for leaks.	Tank is leaking fuel.
7	•		Filler Tube	Check filler tube strainer screen for dirt and clogging.	Strainer screen is clogged.
8	•	•	Fuel-level Gage	Check fuel-level gage for damage and fuel level.	Fuel-level gage is defective.
9	•		Vent Tube Assembly	Check for damage.	Vent is broken or leaking.
10	•	•	Fuel Line	Check for fuel leakage.	Fuel line is leaking fuel.
11	•		P10, P11 Auxiliary Cable	Check connector P10 for loose connections or missing parts at PDU connector J10 and connector P11 at standby generator adapter plate connector J3.	Connector(s) won't tighten, is damaged, or is missing parts. Bare wires are exposed.

17-6. Preparation for Use.

a. Generator Set. Refer to TM 5-6115-465-12.

b. Trailer. Refer to TM 9-2330-247-14&P.

c. Power Unit.

(1) Position power units on level ground. Maximum allowable slope in any direction is 10 degrees.

(2) Remove ground rod assemblies and slide hammer assembly from storage tray. Remove slide hammer and trailer ground wire assembly from front of trailer. Remove trailer ground wire assembly from front of standby power unit trailer.

(3) Ground power units.

(a) Ensure trailer ground wire assemblies are connected to central stud of each trailer. Select spot on ground between trailers to install ground rod.

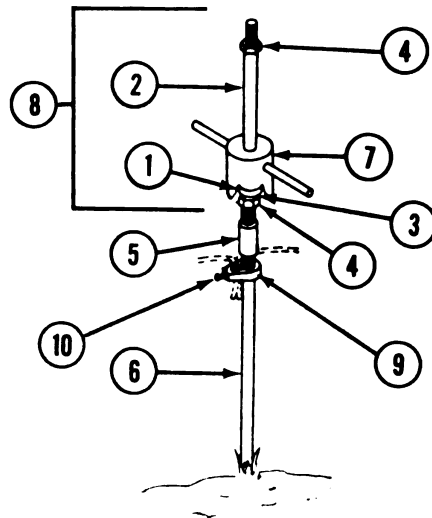


Figure 17-3. Slide Hammer Assembly
(Installing Ground Rod)

WARNING

Nuts must be securely connected to slide hammer rod. Faulty connections could result in death or serious injury.

CAUTION

Slide hammer striker plate and top nut must be tightened to end of threads on slide hammer rod. Slide hammer rod and ground rod section must make firm contact inside ground rod coupler. Damage to rods, plate, and couplers could result.

NOTE

If slide hammer assembly is assembled, go to step (c).

(b) Connect slide hammer striker plate (1, Figure 17-3) to bottom of slide hammer rod (2). Tighten to end of threads. Connect

lockwasher (3) and nut (4) to bottom of slide hammer rod (2). Tighten firmly against striker plate (1). Connect ground rod coupler (5) to bottom of slide hammer rod (2). Connect ground rod section (6) to other end of ground rod coupler (5). Tighten ground rod section (6) to make firm contact with slide hammer rod (2).

(c) Remove nut (4) from top of slide hammer rod (2) if necessary, and place slide hammer (7) on top of slide hammer rod. Slide down until it rests on striker plate (1). Attach nut (4) to top of slide hammer rod. Tighten to end of threads.

(d) While holding in vertical position, lift slide hammer (7). Then slide downward to drive ground rod section (6) into ground. Continue driving ground rod section (6) until approximately 4 inches (10 centimeters) remain above ground level.

(e) Disconnect slide hammer assembly (8) from ground rod coupler (5).

(f) Attach ground rod section (6) to ground rod coupler (5). Attach another ground rod coupler (5) to top of new ground rod section (6). Connect slide hammer assembly (8) to new ground rod coupler (5).

(g) Repeat steps (d), (e), and (f) until at least 8 feet (2.4 meters) of ground rod is buried. Disconnect nut (4), and remove slide hammer (7) from slide hammer assembly (8). Disconnect top ground rod coupler (5).

(h) Store slide hammer assembly (8) and unused ground rod in storage tray. Secure slide hammer to steel bar on front of trailer with lock pin.

(i) Connect clamp (9) to top of ground rod, and reconnect ground rod coupler (5). Connect loose ends of two trailer ground wire assemblies to clamp. Tighten clamp screw (10). Ensure all ground wire connections are secure.

WARNING

Power cable weighs approximately 180 pounds (81.72 kilograms). Do not attempt to carry cable by yourself. Personal injury may result.

CAUTION

Do not drop or drag cable connectors against hard surface. They may be damaged.

(4) Remove all cables from storage tray.

WARNING

Hazardous electrical voltage exists within system. Do not connect or remove electrical cables while power is ON. Electrical shock, burns, or death may result.

(5) Remove protector caps, and attach connector P6 on control cable to connector J6 at PDU.

(6) Remove protector caps, and attach connector P5 on control cable to connector J5 at the ICC/CRG.

(7) Remove protector caps, and attach connector P1 on power/control cable to connector J1 at PDU.

(8) Remove protector caps, and attach connector P2 on power/control cable to connector J2 at ICC/CRG.

(9) Remove protector caps, and attach connector P10 on P10, P11 auxiliary cable to connector J10 at PDU.

(10) Disconnect P3 power/control cable from connector J3 at generator set adapter plate assembly on standby power unit. Install protector cap on connector P3.

(11) Remove protector cap, and attach connector P11 to connector J3 at standby power unit generator adapter plate assembly.

(12) Refer to TM 5-6115-465-12 for paralleling procedures.

17-7. Operating Instructions.

a. Notify ICC/CRG operator to place generator power switch at ICC/CRG in the OFF position.

b. Start generator set as instructed in TM 5-6115-465-12, paragraph 2-11.

c. Place generator set output circuit breaker (contactor) switch in the CLOSE position. Notify ICC/CRG operator to place generator power switch at ICC/CRG in the ON position. Power is now sent through the PDU to the ICC/CRG. Refer to TM 5-6115-465-12 for proper meter and lamp readings and other generator conditions.

d. If primary generator set fails, standby generator set can be activated. Place primary generator set circuit breaker (contactor) switch in the OPEN position. Place primary generator set engine power and start switches in the OFF position. Repeat paragraph 17-7a thru 17-7c for standby generator set.

e. Stop Generator Set.

(1) Notify ICC/CRG operator to place generator power switch at ICC/CRG in the OFF position.

(2) Place generator set output circuit breaker (contactor) switch in the OPEN position.

(3) Shut down generator set. Refer to TM 5-6115-465-12.

17-8. Preparation for Movement.

a. Generator Set. Refer to TM 5-6115-465-12.

b. Trailer. Refer to TM 9-2330-247-14&P.

c. Power Unit.

(1) Follow generator set stopping procedure in paragraph 17-7e above.



Do not drop or drag cable connectors against hard surface. They may be damaged.

(2) Disconnect both ends of power/control cable, control cable, and P10, P11 auxiliary cable; install protector caps.

(3) Remove protector cap, and install P3 power/control cable at connector J3 at generator adapter plate assembly on standby power unit.

(4) Remove and secure paralleling cable in accordance with TM 5-6115-465-12.

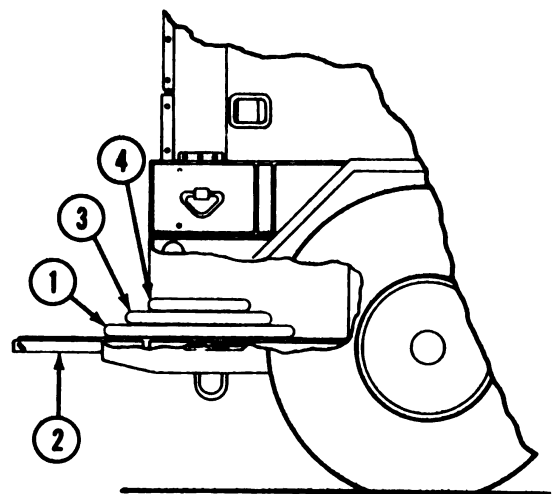


Figure 17-4. Storing Cables in Storage Tray

(5) Store cables in storage tray.

(a) Coil 75-foot power/control cable (1, Figure 17-4) so it extends partially onto tailgate (2). Allow room at back of storage tray.

(b) Coil 25-foot P10, P11 auxiliary cable (3) inside 75-foot power/control cable (1).

(c) Coil 75-foot control cable (4) inside 25-foot P10, P11 auxiliary cable (3).

(d) Use tailgate (2) to slide cables into storage tray.

(e) Store intervehicle power cable kit in storage tray.

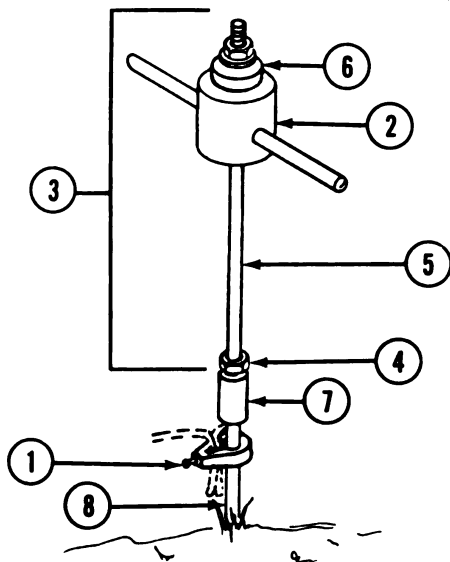


Figure 17-5. Slide Hammer Assembly (Removing Ground Rod)

(6) Loosen clamp screw (1, Figure 17-5), and disconnect trailer ground wire assemblies. Retighten clamp screw (1), and secure trailer ground wire assemblies to front of each trailer with straps provided.

WARNING

Nuts must be securely connected to slide hammer rod. Faulty connections could result in death or serious injury.

NOTE

If slide hammer assembly is not assembled, refer to paragraph 17-6, step (3b).

(7) Remove slide hammer (2) from front of trailer. Remove slide hammer assembly (3) from storage tray. Remove nut (4), and place slide hammer (2) on slide hammer rod (5). Reconnect nut (4).

(8) Connect slide hammer assembly (3) with striker plate (6) at top to ground rod coupler (7). Use slide hammer (2) to lift ground rod sections (8) from ground.

(9) Disconnect ground rod assembly, nut (4), and slide hammer (2) from slide hammer assembly (3). Reconnect nut (4) to slide hammer rod (5). Store ground rod assemblies, and slide hammer assembly (3) in storage tray.

(10) Close and secure trailer tailgate.

(11) Secure slide hammer to steel bar on front of trailer with lock pin.

17-9. Operation Under Unusual Conditions.

a. Generator Set. Refer to TM 5-6115-465-12.

b. Trailer. Refer to TM 9-2330-247-14&P.

c. Power Unit. When low fuel is indicated on primary power unit and standby generator set fails to start, perform the following procedures:

(1) Set primary generator set fuel selector valve to SET TANK position.

(2) Remove 25-foot auxiliary fuel line from standby generator set.

(3) Disconnect fuel line from both generator sets at auxiliary fuel connection.

(4) Connect adapter on 25-foot auxiliary fuel line to connector on 25-foot auxiliary fuel line. Connect other end of adapter to auxiliary tank fuel line on standby generator set. Connect other end of 25-foot auxiliary fuel line to auxiliary tank fuel fitting on primary generator set.

(5) Set primary generator set fuel selector valve to AUXILIARY tank position.

(6) Check for fuel leaks.

NOTE

The **LOW FUEL** indicator lamp in ICC/CRG will remain on during this condition.

17-10. **Power Unit Tiedown Instructions for Railroad Shipment.** See appendix C.

Section III. TROUBLESHOOTING INSTRUCTIONS

17-11. Generator Set. Refer to TM 5-6115-465-12 and TM 5-6115-465-34.

17-12. Trailer. Refer to TM 9-2330-247-14&P.

17-13. Power Unit. This paragraph contains troubleshooting symptoms (malfunctions), tests or inspections, and corrective actions for Power Unit, PU789/M. Specific troubleshooting procedures relating to the generator set must be performed first. Refer to TM 5-6115-465-12.

step detail and designed to be used with PU789/M Wiring Diagram, Figure 17-12 and PU789/M Schematic Diagram, Figure 17-13.

To perform voltage tests, a power source jumper cable will be connected from the generator battery to the required circuit. Refer to Figure 17-11.

If a malfunction occurs that is not listed or cannot be corrected by the information contained in this table, notify your supervisor for further guidance.

The procedures listed in Table 17-3, Power Unit, PU789/M, Troubleshooting, are presented in step-by-

WARNING

Generator sets must be shut down before performing all tests. Failure to do so could result in death or serious injury.

SYMPTOM INDEX

Troubleshooting
Procedure

Appropriate Generator ON-LINE Indicator Does Not Light at ICC/CRG Control Panel	2
ICC/CRG Low Fuel Light Remains Lit After Standby Power Unit Comes On-line	3
Power Distribution Unit Output Contactor Will Not Energize	1

Table 17-3. Power Unit, PU789/M, Troubleshooting

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

1. POWER DISTRIBUTION UNIT OUTPUT CONTACTOR WILL NOT ENERGIZE.

WARNING

Generator sets must be shut down before performing all tests. Failure to do so could result in death or serious injury.

- Step 1. Verify malfunction.

Ensure ICC/CRG generator power switch and generator set output circuit breaker (contactor) switch are ON.

- Step 2. Check control cable connectors at ICC/CRG and PDU and P3 power/control cable connectors at generator set adapter plate assembly for tight connections and correct routing.

Shut down generator set. Tighten loose connections, and correct cable routing. Start up generator set. If malfunction is not corrected, go to step 3.

Table 17-3. Power Unit, PU789/M, Troubleshooting (Cont)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. **POWER DISTRIBUTION UNIT OUTPUT CONTACTOR WILL NOT ENERGIZE (CONT)**

WARNING

Generator sets must be shut down before performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

CAUTION

Do not exceed voltage required for test being performed. Power source or device being tested may be damaged.

- Step 3. Shut down generator set. Open enclosure cover. Disconnect P3 from J3. Connect power source jumper cable from generator battery to connector P3. Connect positive (+) lead to pin B and negative (-) lead to pin D on connector P3.

NOTE

If standby power unit (contactor K2) will not energize, connect power source jumper cable from generator battery to connector P11. Connect positive (+) lead to pin B and negative (-) lead to pin D on connector P11.

Using multimeter, test for presence of 24 +3 VDC between TB1-5 and TB1-3.

If 24 +3 VDC is not present, disconnect power source jumper cable from generator battery, and test P3 power/control cable. Refer to paragraph 17-18a, steps (3) thru (11).

If 24 +3 VDC is present, go to step 4.

Table 17-3. Power Unit, PU789/M, Troubleshooting (Cont)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. **POWER DISTRIBUTION UNIT OUTPUT CONTACTOR WILL NOT ENERGIZE (CONT)**

WARNING

Generator sets must be shut down before performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

CAUTION

Do not exceed voltage required for test being performed. Power source or device being tested may be damaged.

- Step 3. Shut down generator set. Open enclosure cover. Disconnect P3 from J3. Connect power source jumper cable from generator battery to connector P3. Connect positive (+) lead to pin B and negative (-) lead to pin D on connector P3.

NOTE

If standby power unit (contactor K2) will not energize, connect power source jumper cable from generator battery to connector P11. Connect positive (+) lead to pin B and negative (-) lead to pin D on connector P11.

Using multimeter, test for presence of 24 +3 VDC between TB1-5 and TB1-3.

If 24 +3 VDC is not present, disconnect power source jumper cable from generator battery, and test P3 power/control cable. Refer to paragraph 17-18a, steps (3) thru (11).

If 24 +3 VDC is present, go to step 4.

Table 17-3. Power Unit, PU789/M, Troubleshooting (Cont)

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

1. POWER DISTRIBUTION UNIT OUTPUT CONTACTOR WILL NOT ENERGIZE (CONT)

Step 4. Disconnect power source jumper cable from generator battery. Remove two screws, and washers; remove K3 relay. Connect power source jumper cable to generator battery. Using multimeter, test for presence of 24 \pm 3 VDC at relay socket between XK3-2 and XK3-7.

If 24 \pm 3 VDC is not present, disconnect power source jumper cable from generator battery, and repair defective wire. Reinstall K3 relay. Refer to paragraph 17-27c.

If 24 \pm 3 VDC is present, disconnect power source jumper cable from generator battery, and replace K3 relay. Refer to paragraph 17-27c.

Step 5. Disconnect power source jumper cable from generator battery; then disconnect control cable connector P5 at J5 at ICC/CRG. Connect power source jumper cable to generator battery. Using multimeter, test for presence of 24 \pm 3 VDC at connector P5 between pins S and L or between pins Q and L.

If 24 \pm 3 VDC is not present, disconnect power source jumper cable from generator battery. Remove and test control cable. Refer to paragraphs 17-17a and 17-17b.

If 24 \pm 3 VDC is present, go to step 6.

Step 6. Using multimeter, test for presence of 24 \pm 3 VDC between TB1-1 and TB1-13 (between TB1-1 and TB1-12 if standby power unit will not energize).

If 24 \pm 3 VDC is not present, disconnect power source jumper cable from generator battery, and check wiring harnesses for continuity.

If 24 \pm 3 VDC is present, go to step 7.

Table 17-3. Power Unit, PU789/M, Troubleshooting (Cont)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. POWER DISTRIBUTION UNIT OUTPUT CONTACTOR WILL NOT ENERGIZE (CONT)

Step 7. Disconnect power source jumper cable from generator battery; then disconnect connector P8 (connector P9 if standby power unit will not energize). Connect power source jumper cable to generator battery. Using multi-meter, test for presence of 24 \pm 3 VDC between pins A and B.

If 24 \pm 3 VDC is not present, disconnect power source jumper cable from generator battery, and repair defective wire. Reconnect connector P8 or P9.

If 24 \pm 3 VDC is present, disconnect power source jumper cable from generator battery. Replace contactor K1 (contactor K2 if standby power unit will not energize). Refer to paragraphs 17-26a and 17-26c.

NOTE

Disconnect and store power source jumper cable.

Step 8. Remove and test power/control and control cables. Refer to paragraphs 17-16a and 17-16b, and 17-17a and 17-17b.

Replace defective cable. Refer to paragraph 17-16c or 17-17c. Reconnect all cables.

If cables are good, reconnect them and troubleshoot generator set. Refer to TM 5-6115-465-12.

2. APPROPRIATE GENERATOR ON-LINE INDICATOR DOES NOT LIGHT AT ICC/CRG CONTROL PANEL.

WARNING

Generator sets must be shut down before performing all tests. Failure to do so could result in death or serious injury.

Step 1. Verify the malfunction with ICC/CRG operator.

Step 2. Remove and test control cable. Refer to paragraphs 17-17a and 17-17b.

Table 17-3. Power Unit, PU789/M, Troubleshooting (Cont)

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

2. APPROPRIATE GENERATOR ON-LINE INDICATOR DOES NOT LIGHT AT ICC/CRG CONTROL PANEL (CONT)

If cable is defective, replace. Refer to paragraph 17-17c.

If cable is good, go to step 3.

Step 3. Open enclosure cover. Refer to paragraph 17-29a.

Step 4. Disconnect P6 from J6 and P8 from J8 (P9 from J9 if standby power indication is defective). Using multimeter, check continuity between J6 pin G and TBl-9 and between TBl-9 and P8 pin H (J6 pin H and TBl-10, and TBl-10 and P9 pin H if standby power indication is defective).

If continuity does not exist, replace defective harness. Reconnect all harnesses.

If continuity exists, go to step 5.

Step 5. Disconnect P3 from J3 (P11 from J3 if standby power indication is defective). Using multimeter, check continuity between P3 pin H and TBl-17 and between TBl-17 and P8 pin G (P11 pin H and TBl-18, and TBl-18 and P9 pin G if standby power indicator is defective).

If continuity does not exist, replace defective cable or harness. Reconnect all cables and harnesses.

If continuity exists, reconnect cables and harnesses, and troubleshoot generator set. Refer to TM 5-6115-465-12.

Table 17-3. Power Unit, PU789/M, Troubleshooting (Cont)

HALF	FUNCTION
TEST OR INSPECTION	CORRECTIVE ACTION
3. ICC/CRG LOW FUEL LIGHT REMAINS LIT AFTER STANDBY POWER UNIT COMES ON-LINE.	<p style="text-align: center;">WARNING</p> <p style="text-align: center;">Generator sets must be shut down before performing all tests. Failure to do so could result in death or serious injury.</p> <p>Step 1. Check fuel level in standby power unit fuel tank.</p> <p style="padding-left: 40px;">If empty, refill.</p> <p style="padding-left: 40px;">If not empty, go to step 2.</p> <p>Step 2. Disconnect connector P7 from J7 and P4 from J4 of standby power unit. Using multimeter, check continuity between P4 pin A and P7 pin A and between P4 pin C and P7 pin C.</p> <p style="padding-left: 40px;">If continuity does not exist, replace defective cable.</p> <p style="padding-left: 40px;">If continuity exists, replace fuel-level sensor. Refer to paragraph 17-31.</p>

Section IV. GENERATOR SET MAINTENANCE INSTRUCTIONS

17-14. Generator Set Replacement Instructions. (Item numbers below refer to Figure 17-7.)

a. Removal.

(1) Open generator set side panels. Tag and disconnect J3 wiring harness (30) from TB2 (36) and load terminal board. Tag and disconnect J4 wiring harness (26) from TB2 (36).

(2) Tag and disconnect J11, P12 wiring harness (17) and jumper from TB2 (36). Tag and disconnect J11 from P41 and P12 from J41.

(3) Disconnect P3 power/control cable (8) and fuel cable assembly (4) from J3 and J4 on adapter plate assembly (19).

(4) Remove six hex head cap-screws (18) and lockwashers (15); remove adapter plate assembly (19) from lower left corner of generator set. Store hardware in a marked bag.

(5) Remove four hex head cap-screws (16) and lockwashers (15); remove sleeve plate assembly (14) and four spacers (41) from lower right corner of generator set.

NOTE

Use hardware stored in marked bag located in generator set storage compartment to install sleeve plate assembly.

(6) Install sleeve plate assembly (14) at lower left corner of generator set.

NOTE

Adapter plate assembly and mounting hardware removed in step (4) must remain with the PU789/M and be installed on the replacement generator set.

(7) Reconnect P41 to J41, and close generator set side panels.

(8) Disconnect ground wire from generator ground stud.

(9) Turn fuel selector valve to OFF position.

(10) Disconnect fuel line (10) at tube elbow (13) on generator auxiliary fuel connection.

(11) Remove tube elbows (13) and adapter (12) from generator; install dust cap. Store hardware in a marked bag for reinstallation.

(12) Remove eight hex head capscrews (2) and lockwashers (1) holding generator set to trailer. Store hardware in a marked bag for reinstallation.

WARNING

- Capacity of lifting equipment must be minimum of 5,000 pounds (2270 kilograms). Use of lesser-rated lifting equipment may result in equipment failure causing personal injury or death.

- Do not walk or allow others to walk under generator set while it is hanging in air. Personal injury or death may result if the generator set falls.

(13) Attach lifting sling to lifting eyes on top of generator set, and lift generator set from trailer.

b. Repair.

Refer to TM 5-6115-465-12 and TM 5-6115-465-34 for instructions for generator set repair.

c. Installation.

WARNING

- Capacity of lifting equipment must be minimum of 5,000 pounds (2270 kilograms). Use of lesser-rated lifting equipment may result in equipment failure causing personal injury or death.

WARNING

- o Do not walk or allow others to walk under generator set while it is hanging in air. Personal injury or death may result if the generator set falls.

(1) Attach lifting sling to eyes on top of generator set. Lift onto trailer, aligning holes in generator set base with holes in generator supports.

(2) Install eight lockwashers (1) and hex head capscrews (2) through base of generator set. Torque from 113 to 124 foot-pounds (154.25 to 169.26 newton-meters).

(3) Remove dust cap, and install adapter (12) and tube elbows (13).

(4) Connect fuel line assembly (10) at tube elbow (13).

(5) Turn fuel selector valve to AUXILIARY position.

(6) Connect ground wire to ground stud on curbside of generator.

(7) Open generator set side panels.

(8) Remove four hex head capscrews (25) and lockwashers (16); remove sleeve plate assembly (14) from lower left corner of generator set. Store hardware in a marked bag, and place in generator set storage compartment.

NOTE

Use hardware stored in marked bag to install adapter plate assembly.

(9) Install adapter plate assembly (19), six lockwashers (15), and hex head capscrews (18) at lower left corner of generator set.

NOTE

Use hardware stored in marked bag to install sleeve plate assembly.

(10) Remove four corner screws, and install four spacers (41), sleeve plate assembly (14), four lockwashers (15), and hex head capscrews (16) at lower right corner of generator set. Store corner screws in a marked bag.

(11) Connect J11, P12 wiring harness (17) to TB2 (36). Disconnect P41 from J41. Connect J11 to P41 and P12 to J41. Remove tags.

(12) Connect J3 wiring harness to load terminal board and TB2 (36). Connect J4 wiring harness (26) to TB2 (36). Remove tags.

(13) Connect P3 power/control cable (8) and fuel cable assembly (4) to adapter plate assembly (19).

(14) Close generator set side panels.

NOTE

If two self-locking nuts (38), flatwashers (39), and capscrews (40) have already been installed on each side of the generator set, go to step (16).

(15) Remove and discard two nuts, lockwashers, and screws from each side of generator set. Replace with self-locking nuts (38), flatwashers (39), and capscrews (40).

(16) Refer to TM 5-6115-465-12, and perform PMCS.

Section V. POWER UNIT MAINTENANCE INSTRUCTIONS

17-15. Adapter Plate Assembly Maintenance Instructions. (Item numbers below refer to Figure 17-7.)

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if performed with generator sets running.

a. Removal.

(1) Open generator set side panels. Tag and disconnect J3 wiring harness (30) from TB2 (36) and load terminal board. Tag and disconnect J4 wiring harness (26) from TB2 (36).

(2) Tag and disconnect J11, P12 wiring harness (17) from TB2 (36). Tag and disconnect J11 from P41 and P12 from J41.

(3) Disconnect P3 power/control cable (8) and fuel cable assembly (4) from J3 and J4 on adapter plate assembly (19).

(4) Remove six hex head capscrews (18) and lockwashers (15); remove adapter plate assembly (19) from lower left corner of generator set.

b. Test.

Using multimeter and wiring diagram (Figure 17-12), check J3, J4, and J11, P12 wiring harnesses (30, 26, and 17) for continuity.

c. Disassembly and Repair.

(1) Remove four self-locking nuts (34), pan head machine screws (32), flatwashers (33), protective cap (31) with chain assembly, J3 wiring harness (30), and EMI gasket (29). Inspect EMI gasket (29), and replace if damaged.

(2) Remove four self-locking nuts (34), pan head screws (27), flatwashers (28), J4 wiring harness (26), and EMI gasket (25). Inspect EMI gasket (25), and replace if damaged.

(3) Remove two machine screws (37), TB2 (36), and marker strip (24).

(4) Remove terminal board jumper (20) from TB2 (36).

(5) Drill out and remove four rivets (23). Remove two self-locking nuts (22).

NOTE

Repair of the adapter plate assembly is limited to the removal and replacement of defective components.

d. Assembly.

(1) Install two self-locking nuts (22) with four new rivets (23) to generator set adapter plate (21) bracket. Secure using hammer and punch.

(2) Install terminal board jumper (20) to TB2 (36).

(3) Install marker strip (24), TB2 (36), and two machine screws (37) to generator set adapter plate (21) bracket.

(4) Install EMI gasket (25), J4 wiring harness (26), four flatwashers (28), pan head screws (27), and self-locking nuts (34) to generator set adapter plate (21).

(5) Install EMI gasket (29), J3 wiring harness (30), protective cap (31) with chain assembly, four flatwashers (33), pan head machine screws (32), and self-locking nuts (35) to generator set adapter plate (21).

e. Installation.

NOTE

Use hardware stored in marked bag to install adapter plate assembly.

(1) Install adapter plate assembly (19), six lockwashers (15), and hex head capscrews (18) at lower left corner of generator set.

(2) Connect J11, P12 wiring harness (17) to TB2 (36). Disconnect P41 from J41. Connect P41 to J11 and P12 to J41. Remove tags.

(3) Connect J3 wiring harness to load terminal board and TB2 (36).

(4) Connect P3 power/control cable (3) and fuel cable assembly (4) to adapter plate assembly (19).

(5) Close generator set side panels.

17-16. Power/Control Cable Maintenance Instructions. (Item numbers below refer to Figure 17-8.)

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Removal.

(1) Disconnect power/control cable (14) from J1 wiring harness (55) on PDU.

(2) Disconnect power/control cable (14) from connector J2 on ICC or CRG.

b. Test.

(1) Using multimeter, test each power/control cable (14) lead for continuity. Readings should be 0 ohms.

(2) Using multimeter, test power/control cable (14) for continuity between each lead and connector housing. Readings should be infinity.

(3) If readings are not infinity and 0 ohms, replace power/control cable (14).

WARNING

When using megohmmeter, use extreme caution. Follow operating instructions supplied with megohmmeter. Failure to do so could result in death or severe injury.

NOTE

Refer to the megohmmeter user's guide for proper settings and readings to be obtained when testing the power cable.

(4) Using megohmmeter, test power/control cable (14) for shorts, ground faults, and defective wiring. If any reading is less than 10 megohms, replace power/control cable (14).

c. Installation.

(1) Connect power/control cable (14) to connector J2 on ICC or CRG.

(2) Connect power/control cable (14) to J1 wiring harness (65) on PDU.

17-17. Control Cable Maintenance Instructions. (Item numbers below refer to Figure 17-8.)

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Removal.

(1) Disconnect control cable (13) from J6 wiring harness (63) on PDU.

(2) Disconnect control cable (13) from connector J5 on ICC or CRG.

b. Test.

(1) Using multimeter, test for continuity between pins on connectors P6 and P5. Readings should be 0 ohms.

(2) Using multimeter, test for continuity between pins on connector P5 and connector housing and between pins on connector P6 and connector housing. Readings should be infinity.

(3) If readings are not infinity and 0 ohms, replace control cable (13).

c. Installation.

(1) Connect control cable (13) to connector J5 on ICC or CRG.

(2) Connect control cable (13) to J6 wiring harness (63) on PDU.

17-18. P3 Power/Control Cable Assembly Maintenance Instructions. (Item numbers below refer to Figure 17-8 unless otherwise indicated.)

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Test.

(1) Disconnect P3 power/control cable (8, Figure 17-7) from generator set.

(2) Release latch (42), and open enclosure cover (19).

(3) Remove two screws, washers, and K1 contactor (36) cover.

(4) Tag and disconnect P3 power/control cable wiring from K1 contactor (36), TB1 (57), and ground stud (30).

(5) Using multimeter, test each P3 power/control cable (8, Figure 17-7) lead for continuity. Readings should be 0 ohms.

(6) Using multimeter, test P3 power/control cable (8, Figure 17-7) for continuity between each lead and connector housing. Readings should be infinity.

(7) If readings are not infinity and 0 ohms, replace P3 power/control cable (8, Figure 17-7).

WARNING

When using megohmmeter, use extreme caution. Follow operating instructions supplied with megohmmeter. Failure to do so could result in death or severe injury.

NOTE

Refer to the megohmmeter user's guide for proper settings and readings to be obtained when testing the power/control cable assembly.

(8) Using megohmmeter, test P3 power/control cable (8, Figure 17-7) for shorts, ground faults, and defective wiring. If any reading is less than 10 megohms, replace P3 power/control cable (8, Figure 17-7).

(9) Connect P3 power/control cable wiring to ground stud (30), TB1 (57), and K1 contactor (36). Remove tags.

(10) Install K1 contactor (36) cover, two washers, and two screws.

(11) Close enclosure cover (19), and secure with latch (42).

(12) Connect P3 power/control cable (8, Figure 17-7) to connector J3.

b. Removal.

(1) Disconnect P3 on P3 power/control cable (8, Figure 17-7) from J3 on adapter plate assembly (19, Figure 17-7).

(2) Remove three self-locking nuts (7), spacer (6), flatwashers (4), pan head screws (3) and (8), and loop type clamps (5) from P3 power/control cable (8, Figure 17-7).

(3) Release latch (42), and open enclosure cover (19).

(4) Remove two screws, two washers, and K1 contactor (36) cover.

(5) Tag and disconnect P3 power/control cable wiring from K1 contactor (36), TB1 (57), and ground stud (30).

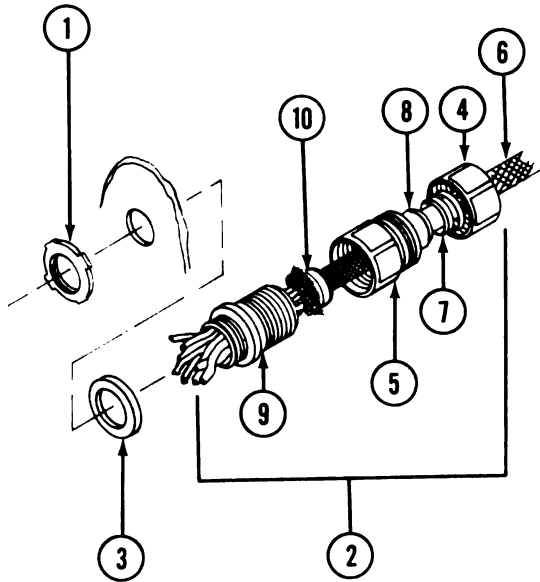


Figure 17-6. P3 Power/Control Cable Connector

(6) Remove P3 power/control cable conduit locknut (1, Figure 17-6) and EMI sealing grip (2, Figure 17-6) from PDU housing (40). Remove EMI gasket (3, Figure 17-6).

(7) Disconnect EMI sealing grip gland nut (4, Figure 17-6) from EMI sealing grip interconnector (5, Figure 17-6). Slide EMI sealing grip gland nut (4, Figure 17-6) above cable grip (6, Figure 17-6).

(8) Collapse cable grip (6, Figure 17-6), and slide away from EMI sealing grip interconnector (5, Figure 17-6). Slide gland washer (7, Figure 17-6) and rubber bushing (8, Figure 17-6) away from EMI sealing grip interconnector (5, Figure 17-6).

(9) Disconnect EMI sealing grip body (9, Figure 17-6) from EMI sealing grip interconnector (5, Figure 17-6). Remove EMI sealing grip body (9, Figure 17-6), nylon bushing (10, Figure 17-6), EMI sealing grip interconnector (5, Figure 17-6), rubber bushing (8, Figure 17-6), gland washer (7, Figure 17-6), cable grip (6, Figure 17-6), and EMI sealing grip gland nut (4, Figure 17-6).

c. Installation.

(1) Slide EMI sealing grip gland nut (4, Figure 17-6) onto P3 power/control cable (8, Figure 17-7).

(2) Collapse cable grip (6, Figure 17-6), and slide onto P3 power/control cable (8, Figure 17-7). Stretch cable grip (6, Figure 17-6) so cable grip fitting is about 2 inches from end of cable outer jacket, and cable grip mesh is taut.

(3) Slide gland washer (7, Figure 17-6), rubber bushing (8, Figure 17-6), and EMI sealing grip interconnector (5, Figure 17-6) onto P3 power/control cable (8, Figure 17-7).

(4) Slide EMI sealing grip gland nut (4, Figure 17-6) over cable grip fitting. Connect EMI sealing grip interconnector (5, Figure 17-6) to EMI sealing grip gland nut (4, Figure 17-6).

(5) Slide nylon bushing (10, Figure 17-6) over cable shielding and into EMI sealing grip interconnector (5, Figure 17-6).

(6) Peel back cable shielding over bevelled end of nylon bushing (10, Figure 17-6). Slide EMI sealing grip body (9, Figure 17-6) onto P3 power/control cable (8, Figure 17-7).

NOTE

Bevelled end of nylon bushing forces cable shielding against bevelled lip of EMI sealing grip body. This occurs when EMI sealing grip body is connected to EMI sealing grip interconnector.

(7) Connect EMI sealing grip body (9, Figure 17-6) to EMI sealing grip interconnector (5, Figure 17-6).

(8) Place EMI gasket (9) on end of EMI sealing grip (12). Connect EMI sealing grip (12) to PDU housing, and install P3 power/control cable conduit locknut (2).

(9) Connect P3 power/control cable wiring to ground stud (30), TB1 (57), and K1 contactor (36). Remove tags.

(10) Install K1 contactor (36) cover, two washers, and two screws.

(11) Close enclosure cover (19), and secure with latch (42).

(12) Install three loop type clamps (5), pan head screws (3) and (8), flatwashers (4), spacer (6), and self-locking nuts (7) to secure P3 power/control cable (8, Figure 17-7).

(13) Connect P3 on P3 power/control cable (8, Figure 17-7) to J3 on adapter plate assembly (19, Figure 17-7).

17-19. Fuel Cable Assembly Maintenance Instructions. (Item numbers below refer to Figure 17-7 unless otherwise indicated.)

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Test.

(1) Disconnect fuel cable assembly (4) from J4 wiring harness (26) on adapter plate assembly (19).

(2) Disconnect fuel cable assembly (4) from connector J7 on fuel-level sensor (12, Figure 17-9).

(3) Using multimeter, test for continuity between pin A on P4 and pin A on P7, and between pin C on P4 and pin C on P7. Readings should be 0 ohms.

(4) Using multimeter, test for continuity between pins on connector P4 and connector housing and between pins on connector P7 and connector housing. Readings should be infinity.

(5) If readings are not infinity and 0 ohms, replace fuel cable assembly (4).

(6) Connect P7 on fuel cable assembly (4) to connector J7 on fuel-level sensor (12, Figure 17-9).

(7) Connect P4 on fuel cable assembly (4) to J4 wiring harness (26) on adapter plate assembly (19).

b. Removal.

(1) Disconnect fuel cable assembly (4) from J4 wiring harness (26) on adapter plate assembly (19).

(2) Disconnect fuel cable assembly (4) from connector J7 on fuel-level sensor (12, Figure 17-9).

(3) Remove pan head machine screw (5), lockwasher (6), and loop type clamp (7). Remove fuel cable assembly (4).

c. Installation.

(1) Install fuel cable assembly (4), and secure with loop type clamp (7), lockwasher (6), and pan head machine screw (5).

(2) Connect P7 on fuel cable assembly (4) to connector J7 on fuel-level sensor (12, Figure 17-9).

(3) Connect connector P4 to J4 wiring harness (26) on adapter plate assembly (19).

17-20. P10, P11 Auxiliary Cable Maintenance Instructions. (Item numbers below refer to Figure 17-8 unless otherwise indicated.)

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Removal.

(1) Disconnect P10 on auxiliary cable (1) from J10 wiring harness (45) on PDU.

(2) Disconnect P11 on auxiliary cable (1) from J3 wiring harness (30, Figure 17-7) on standby generator set.

b. Test.

(1) Using multimeter, test each P10, P11 auxiliary cable (1) lead for continuity. Readings should be 0 ohms.

(2) Using multimeter, test P10, P11 auxiliary cable (1) for continuity between each lead and connector housing. Readings should be infinity.

(3) If readings are not infinity and 0 ohms, replace P10, P11 auxiliary cable (1).

WARNING

When using megohmmeter, use extreme caution. Follow operating instructions supplied with megohmmeter. Failure to do so could result in death or severe injury.

NOTE

Refer to the megohmmeter user's guide for proper settings and readings to be obtained when testing the P10, P11 auxiliary cable.

(4) Using megohmmeter, test P10, P11 auxiliary cable (1) for shorts, ground faults, and defective wiring. If any reading is less than 10 megohms, replace P10, P11 auxiliary cable (1).

c. Installation.

(1) Connect P11 on auxiliary cable (1) to J3 wiring harness (30, Figure 17-7) on standby generator set.

(2) Connect P10 on auxiliary cable (1) to J10 wiring harness (45) on PDU.

17-21. CR1, CR2, CR3, and CR4 Diodes Maintenance Instructions. (Item numbers below refer to Figure 17-8.)

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Test.

NOTE

Remove diodes one at a time to test, and return each one or its replacement to original position.

(1) Release latch (42), and open enclosure cover (19).

(2) Remove plain nut (51), lockwasher (52), control relay/diodes wiring harness (47), two plastic washers (49), spacer (50), and diode (48) from bracket (53).

(3) Using multimeter, measure resistance from terminal to base of diode (48). Resistance should be high.

(4) Reverse leads of multimeter. Measure resistance from base of diode (48) to terminal. Resistance should be low.

(5) If readings were both low or both high in steps (3) and (4), replace defective diode (48).

(6) Install diode (48), spacer (50), two plastic washers (49), control relay/diodes wiring harness (47), lockwasher (52), and plain nut (51) to bracket (53).

(7) If other diodes (48) need to be tested, repeat steps (2) thru (6).

(8) Close enclosure cover (19), and secure with latch (42).

b. Removal.

(1) Release latch (42), and open enclosure cover (19).

WARNING

Avoid contact with soldering iron and soldered parts. Severe burns may result.

(2) Remove insulation sleeving. Tag and desolder control relay/diodes wiring harness (47) from top of diode (48).

(3) Remove plain nut (51), lockwasher (52), control relay/diodes wiring harness (47), two plastic washers (49), spacer (50), and diode (48) from bracket (53).

(4) If other diodes (48) need to be removed, repeat steps (2) and (3).

c. Installation.

(1) Install diode (48), spacer (50), two plastic washers (49), control relay/diodes wiring harness (47), lockwasher (52), and plain nut (51) to bracket (53).

WARNING

Avoid contact with soldering iron and soldered parts. Severe burns may result.

(2) Install insulation sleeving. Solder control relay/diodes wiring harness (47) to top of diode (48). Heat shrink insulation sleeving. Remove tag.

(3) If other diodes (48) were removed, repeat steps (1) and (2) to reinstall them.

(4) Close enclosure cover (19), and secure with latch (42).

17-22. Relay/Diode Wiring Harness Maintenance Instructions. (Item numbers below refer to Figure 17-8).

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Test.

(1) Release latch (42), and open enclosure cover (19).

(2) Remove two pan head screws and washers; remove K3 relay (54).

(3) Using multimeter and wiring diagram (Figure 17-12), check control relay/diodes wiring harness (47) for continuity.

(4) Repair or replace control relay/diodes wiring harness (47) as needed.

(5) Install K3 relay (54), and secure with two washers and pan head screws.

(6) Close enclosure cover (19), and secure with latch (42).

b. Removal.

(1) Release latch (42), and open enclosure cover (19).

(2) Remove two pan head screws and washers; remove K3 relay (54).

(3) Tag and disconnect control relay/diodes wiring harness (47) from TBl (57).

(4) Remove jumper (58) from TBl-2 to TBl-3.

(5) Remove insulation sleeving. Tag and desolder control relay/diodes wiring harness (47) wires from top of diodes (48).

(6) Tag four control relay/diodes wiring harness (47) base wires.

(7) Remove four plain nuts (51), four lockwashers (52), control relay/diodes wiring harness (47), eight plastic washers (49), four spacers (50), and four diodes (48) from bracket (53).

(8) Remove two nuts and standoffs, and pull K3 relay (54) socket out of bracket.

(9) Remove control relay/diodes wiring harness (47).

c. Installation.

(1) Install K3 relay (54) socket in bracket, and secure with two standoffs and nuts.

(2) Install four diodes (48), four spacers (50), eight plastic washers (49), control relay/diodes wiring harness (47), four lockwashers (52), and four plain nuts (51) to bracket (53).

WARNING

Avoid contact with soldering iron and soldered parts. Severe burns may result.

(3) Install insulation sleeving. Solder control relay/diodes wiring harness (47) to top of diodes (48). Heat shrink insulation sleeving. Remove tags.

(4) Install jumper from TBl-2 to TBl-3.

(5) Connect control relay/diodes wiring harness (47) to TBl (57). Remove tags.

(6) Install K3 relay (54), and secure with two washers and pan head screws.

(7) Close enclosure cover (19), and secure with latch (42).

17-23. J1 and J10 Wiring Harnesses Maintenance Instructions. (Item numbers below refer to Figure 17-8.)

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Test.

(1) Disconnect P1 or P10 connector from J1 or J10 wiring harness (65 or 45) on PDU.

(2) Using multimeter and wiring diagram (Figure 17-12), check wiring harness for continuity.

(3) Replace J1 or J10 wiring harness (65 or 45) if defective.

(4) Connect P1 or P10 connector to J1 or J10 wiring harness (65 or 45).

b. Removal.

(1) Disconnect P1 or P10 connector from J1 or J10 wiring harness (65 or 45) on PDU.

(2) Release latch (42), and open enclosure cover (19).

NOTE

J1 wiring harness is connected to K1 contactor and J10 wiring harness is connected to K2 contactor.

(3) Remove two screws, washers, and contactor cover.

(4) Tag and disconnect wiring harness from contactor (36), ground stud (30), TB1-8, and TB1-5 for J1 wiring harness (65). Tag and disconnect wiring harness from contactor (36), ground stud (30), TB1-1, TB1-12, TB1-15, and TB1-18 for J10 wiring harness (45).

NOTE

J1 wiring harness is supported by four loop type clamps.

(5) Remove self-locking nut (7), flatwasher (4), pan head machine screw (28), and loop type clamp (27) from J1 wiring harness (65).

(6) Repeat step (5) for other three loop type clamps.

(7) Remove four self-locking nuts (7), flatwashers (4), and pan head machine screws (28); remove protective cover (46) with chain assembly, J1 or J10 wiring harness (65 or 45), and EMI gasket (44).

c. Installation.

(1) Install EMI gasket (44), wiring harness (65 or 45), protective cover (46) with chain assembly, and four pan head machine screws (28), flatwashers (4), and self-locking nuts (7).

NOTE

J1 wiring harness is connected to K1 contactor and J10 wiring harness to K2 contactor.

(2) Connect J1 wiring harness (65) to TB1-8, TB1-5, ground stud (30), and contactor (36); connect J10 wiring harness (45) to TB1-1, TB1-12, TB1-15, TB1-18, ground stud (30), and contactor (36). Remove tags.

(3) Install contactor cover, two washers, and screws.

NOTE

J1 wiring harness is supported by four loop type clamps.

(4) Install loop type clamp (27), pan head machine screw (28), flatwasher (4), and self-locking nut (7) on J1 wiring harness (65).

(5) Repeat step (4) for other three loop type clamps.

(6) Close enclosure cover (19), and secure with latch (42).

(7) Connect P1 or P10 connector to J1 or J10 wiring harness (65 or 45) connector on PDU.

17-24. J6 Wiring Harness Maintenance Instructions. (Item numbers below refer to Figure 17-8.)

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Test.

- (1) Disconnect P6 connector from J6 wiring harness (63) on PDU.
- (2) Release latch (42), and open enclosure cover (19). Using multimeter and wiring diagram (Figure 17-12), check wiring harness for continuity.
- (3) Replace J6 wiring harness (63) if defective.
- (4) Connect P6 connector to J6 wiring harness (63).
- (5) Close enclosure cover (19), and secure with latch (42).

b. Removal.

- (1) Disconnect P6 connector from J6 wiring harness (63) on PDU.
- (2) Release latch (42), and open enclosure cover (19).
- (3) Using wiring diagram (Figure 17-12), tag and disconnect J6 wiring harness (63) from TBl (57).

NOTE

J6 wiring harness is supported by two loop type clamps.

- (4) Remove two self-locking nuts (7), flatwashers (4), pan head machine screws (28), and loop type clamps (27) from J6 wiring harness (63).
- (5) Remove four self-locking nuts (60), flatwashers (59), and machine screws (55); remove protective cover (62) with chain assembly, J6 wiring harness (63), and EMI gasket (64).

c. Installation.

- (1) Install EMI gasket (64), J6 wiring harness (63), protective cover (62) with chain assembly, four machine screws (55), flatwashers (59), and self-locking nuts (60).
- (2) Connect J6 wiring harness (63) to TBl (57). Remove tags.
- (3) Install two loop type clamps (27), pan head machine screws (28), flatwashers (59), and self-locking nuts (7) on J6 wiring harness (63).
- (4) Close enclosure cover (19), and secure with latch (42).
- (5) Connect connector P6 to J6 wiring harness (63) on PDU.

17-25. P8 and P9 Wiring Harnesses Maintenance Instructions. (Item numbers below refer to Figure 17-8.)

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Test.

- (1) Release latch (42), and open enclosure cover (19).

NOTE

P8 wiring harness is connected to K1 contactor and P9 wiring harness to K2 contactor.

(2) Disconnect wiring harness (35 or 34) from contactor (36).

(3) Using multimeter and wiring diagram (Figure 17-12), check wiring harness for continuity.

(4) Repair or replace P8 or P9 wiring harness (35 or 34) as needed.

(5) Connect wiring harness (35 or 34) to contactor (36).

(6) Close enclosure cover (19), and secure with latch (42).

b. Removal.

(1) Release latch (42), and open enclosure cover (19).

NOTE

P8 wiring harness is connected to K1 contactor and P9 wiring harness to K2 contactor.

(2) Disconnect P8 or P9 wiring harness (35 or 34) from connector J8 or J9 on contactor.

(3) Using wiring diagram (Figure 17-12), tag and disconnect wiring harness from TBl (57).

(4) Remove self-locking nut (7), flatwasher (4), pan head machine screw (28), and loop type clamp (27) from wiring harness (35 or 34).

(5) Remove wiring harness (35 or 34).

c. Repair.

NOTE

Repair of P8 and P9 wiring harnesses (35 and 34) is limited to replacement of defective terminal lugs.

d. Installation.

(1) Connect wiring harness (35 or 34) to TBl (57), and remove tags.

NOTE

P8 wiring harness is connected to K1 contactor and P9 wiring harness to K2 contactor.

(2) Connect P8 or P9 wiring harness (35 or 34) to J8 or J9 connector on contactor (36).

(3) Install loop type clamp (27), pan head machine screw (28), flatwasher (4), and self-locking nut (7) on wiring harness.

(4) Close enclosure cover (19), and secure with latch (42).

17-26. K1 and K2 Contactor Maintenance Instructions. (Item numbers below refer to Figure 17-8.)

WARNING

Generator sets must be shut down when performing the following procedure. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Removal.

- (1) Release latch (42), and open enclosure cover (19).

NOTE

The K1 contactor and K2 contactor are identical.

- (2) Remove four screws and washers, and two contactor covers from contactor (36).
- (3) Disconnect P8 or P9 wiring harness (35 or 34) from J8 or J9 connector on contactor (36).
- (4) Tag electrical leads on contactor (36).
- (5) Remove six nuts, six lockwashers, six flatwashers, and electrical leads.
- (6) Remove four self-locking nuts (7), flatwashers (4), and remove contactor (36).

b. Test.

- (1) Ensure power source is off.



Do not exceed voltage required for test being performed. Power source or device being tested may be damaged.

- (2) Connect 2 amp, 28 VDC power source positive (+) lead to J8 or J9 pin A.
- (3) Connect power source negative (-) lead to J8 or J9 pin B.

WARNING

Hazardous electrical voltages exist when using power source. Do not touch circuitry or metal on power source or multimeter leads while power is on. Serious electrical shock, burns, or death may result.

- (4) Turn power source on.
- (5) Using multimeter, check continuity from terminal lug A1 to A2, B1 to B2, and C1 to C2, and pin G to pin H of J8 or J9. Turn power source off.
- (6) If any reading is greater than 1 ohm, replace contactor.
- (7) Disconnect power source positive and negative leads from contactor (36).

c. Installation.

- (1) Install contactor (36), and secure with four self-locking nuts (7) and flatwashers (4).
- (2) Install electrical leads to contactor (36). Install six flatwashers, six lockwashers, and six nuts. Remove tags.
- (3) Connect P8 or P9 wiring harness (35 or 34) to J8 or J9 connector on contactor (36).
- (4) Install two contactor covers, and four washers and screws on contactor (36).
- (5) Close enclosure cover (19), and secure with latch (42).

17-27. K3 Relay Maintenance Instructions. (Item numbers below refer to Figure 17-8.)

WARNING

Generator sets must be shut down when performing the following procedure.

Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Removal.

(1) Release latch (42), and open enclosure cover (19).

(2) Remove two screws, and washers; remove K3 relay (54).

b. Test.

(1) Ensure power source is off.

CAUTION

Do not exceed voltage required for test being performed. Power source or device being tested may be damaged.

(2) Connect 1 amp, 28 VDC power source positive (+) lead to K3 relay pin X1.

(3) Connect power source negative (-) lead to K3 relay pin X2.

WARNING

Hazardous electrical voltages exist when using power source. Do not touch circuitry or metal on power source or multimeter leads while power is on. Serious electrical shock, burns, or death may result.

(4) Turn power source on.

(5) Using multimeter, check continuity from pin A2 to A1 and pin B2 to B1. Turn power source off.

(6) Using multimeter, check continuity from pin A2 to A3 and pin B2 to B3.

(7) If any reading is greater than 10 ohms, replace K3 relay (54).

(8) Disconnect power source positive and negative leads from K3 relay (54).

c. Installation.

(1) Install K3 relay (54), two washers, and two screws.

(2) Close enclosure cover (19), and secure latch (42).

17-28. Power Distribution Unit (PDU) Maintenance Instructions. (Item numbers below refer to Figure 17-8 unless otherwise indicated.)

WARNING

Generator sets must be shut down when performing the following. Serious injury or death by electrocution could result if procedure is performed with generator sets running.

a. Removal.

(1) Removal of enclosure cover.

(a) Release latch (42), and open enclosure cover (19).

(b) Remove eight self-locking nuts (7), flatwashers (4), and pan head machine screws (28); remove four loop type clamps (27) and enclosure cover (19).

(2) Removal of PDU.

(a) Disconnect connector P1 from J1 wiring harness (65) on PDU, and install protector cap.

(b) Disconnect connector P6 from J6 wiring harness (63) on PDU, and install protector cap.

(c) Disconnect connector P10 from J10 wiring harness (45) on PDU, and install protector cap.

(d) Remove self-locking nut (7), flatwasher (4), pan head machine screw (28), and loop type clamp (27).

(e) Remove two screws, washers, and K1 contactor (36) cover.

(f) Tag three wires on J3 side of contactor (36). Remove three nuts, lockwashers, and flatwashers; remove wires. Tag and disconnect P3 power/control cable (8, Figure 17-7) wiring from TBI (57) and ground stud (30).

(g) Remove power/control cable assembly conduit locknut (2), and pull power/control cable assembly wiring out of PDU.

(h) Install conduit locknut (2) on EMI sealing grip (12) to hold EMI gasket (9) in place.

(i) Remove wingnut (29) and flatwasher (31), and disconnect PDU to trailer ground wire at PDU.

(j) Remove four self-locking nuts (15), eight flatwashers (16), and four hex head capscrews (17); remove PDU from trailer.

b. Repair.

(1) Repair of enclosure cover.

NOTE

Repair of PDU enclosure cover is limited to replacement of hinge, hook strike, schematic diagram, and sealing strip.

(a) Drill out eight solid rivets (26), and remove butt hinge (25).

(b) Drill out two rivets (27), and remove hook strike (21).

(c) Drill out six rivets (24), and remove schematic diagram (23).

(d) Using old sealing strips (22) as guides, cut lengths of new sealing strip (22).

(e) Cut sealing strips (22) on a 45-degree angle at corners.

(f) Remove old sealing strips (22) from inside enclosure cover (19), and remove adhesive using nonflammable solvent.

(g) Peel off backing paper from rubber part of new sealing strips (22).

(h) Apply sealing strips (22) to inside of enclosure cover (19) with metal shielding toward middle of enclosure cover (19).

(i) Apply rubber base adhesive to rubber part of sealing strips (22) at corners.

(j) Apply conductive silicone adhesive to wire mesh of sealing strips (22) at corners.

(k) Aline schematic diagram (23) with holes in enclosure cover (19).

(l) Install schematic diagram (23) with six new rivets (24), and secure using hammer and punch.

(m) Aline hook strike (21) with holes in enclosure cover (19).

(n) Install hook strike (21) with two new rivets (20), and secure using hammer and punch.

(o) Cut new butt hinge (25) to same length as old butt hinge.

(p) Aline butt hinge (25) with holes in enclosure cover (19) and PDU housing (40).

(q) Mark and drill holes in butt hinge (25).

(r) Install butt hinge (25) to enclosure cover (19) with eight new solid rivets (26), and secure using hammer and punch.

(2) Repair of PDU.

NOTE

Repair of PDU is limited to replacement of defective components.

(a) Remove two screws, washers, and nuts; remove K3 relay (54).

(b) Tag control relay/diodes wiring harness (47) wires connected to base of diodes (48).

(c) Remove four plain nuts (51), lockwashers (52), control relay/diodes wiring harness (47) wires, and plastic washers (49) from base of diodes (48).

(d) Tag and remove diodes (48), spacers (50), and plastic washers (49) from bracket (53).

(e) Remove two nuts and standoffs, and pull control relay/diodes wiring harness (47) socket out of bracket (53).

(f) Remove four self-locking nuts (7), flatwashers (4), and pan head machine screws (28); remove bracket (53).

(g) Tag and disconnect wires and jumper (58) from TBl (57).

(h) Remove K1 and K2 contactors (36). Refer to paragraph 17-26a, steps (3) thru (6).

(i) Remove four self-locking nuts (60), flatwashers (59), and machine screws (55); remove TBl (57) and marker strip (56).

(j) Drill out two rivets (43), and remove latch (42).

(k) Remove three plain nuts (32), four flatwashers (31), four wires, two lockwashers (33), and ground stud (30).

(l) Install ground stud (30), two lockwashers (33), four wires, four flatwashers (31), and three plain nuts (32).

(m) Install two new rivets (43), and secure using hammer and punch.

(n) Install marker strip (56), TBl (57), four machine screws (55), flatwashers (59), and self-locking nuts (60).

(o) Connect wires and jumper (58) to TBl (57), and remove tags.

(p) Install bracket (53), four pan head machine screws (28), flatwashers (4), and self-locking nuts (7).

(q) Install control relay/diodes wiring harness (47) in bracket (53), and secure with two standoffs and nuts.

(r) Install four plastic washers (49), spacers (50), and diodes (48) in bracket (53). Remove tags.

(s) Install four plastic washers (49), control relay/diodes wiring harness (47) wires, lockwashers (52), and plain nuts (51) to base of diodes (48). Remove tags.

(t) Install K3 relay (54), two washers, and screws.

c. Installation.

(1) Installation of PDU.

(a) Install PDU, four hex head capscrews (17), eight flatwashers (16), and four self-locking nuts (15).

(b) Connect PDU to trailer ground wire at PDU. Install flatwasher (31) and wingnut (29).

(c) Remove conduit locknut (2) from EMI sealing grip (12). Install P3 power/control cable (8, Figure 17-7) in PDU, and secure with conduit locknut (2).

(d) Connect power/control cable assembly wiring from K1 contactor to ground stud (30) and to TBl (57). Remove tags.

(e) Install K1 contactor cover, two washers, and screws.

(f) Install loop type clamp (27), pan head machine screw (28), flatwasher (4), and self-locking nut (7).

(g) Remove protector cap, and connect connector P10 to J10 wiring harness (45) on PDU.

(h) Remove protector caps, and connect connector P6 to J6 wiring harness (63) on PDU.

(i) Remove protector caps, and connect connector P1 to J1 wiring harness (65) on PDU.

(2) Installation of enclosure cover.

(a) Install enclosure cover (19), eight pan head machine screws (28), flatwashers (4), self-locking nuts (7), and four loop type clamps (27).

(b) Close enclosure cover (19), and secure with latch (42).

17-29. Fuel Line Assembly Maintenance Instructions. (Item numbers below refer to Figure 17-7 unless otherwise indicated.)

WARNING

No smoking or open flame within 50 feet (15.3 meters) of the PU789/M when operating or maintaining it. Do not allow fuel to drain on ground. This will create a fire hazard.

a. Removal.

(1) Remove generator set from trailer. Refer to paragraph 17-14a, steps (8) thru (13).

(2) Remove three pan head machine screws (5) and lockwashers (6) from loop type clamps (9).

(3) Remove loop type clamps (9) from fuel line assembly (10).

(4) Disconnect fuel line assembly (10) from fuel tank (13, Figure 17-9). Remove fuel line assembly (10) and grommet (11) from walkway.

b. Installation.

(1) Install grommet (11) and three loop type clamps (9) on fuel line assembly (10).

(2) Install fuel line assembly (10) through walkway, and connect to fuel tank (13, Figure 17-9).

(3) Install three lockwashers (6) and pan head machine screws (5) through loop type clamps (9).

(4) Install generator set to trailer. Refer to paragraph 17-14c, steps (1) thru (6).

17-30. Fuel Tank Assembly

Maintenance Instructions. (Item numbers below refer to Figure 17-9 unless otherwise indicated.)

WARNING

No smoking or open flame within 50 feet (15.3 meters) of the PU789/M when operating or maintaining it. Do not allow fuel to drain on ground. This will create a fire hazard.

a. Removal.

(1) Open drain cock (7), and drain fuel from fuel tank (13) into a container.

(2) Disconnect P3 power/control cable (8, Figure 17-7) and fuel cable assembly (4, Figure 17-7) from adapter plate assembly (19, Figure 17-7).

(3) Remove generator set. Refer to paragraph 17-14a, steps (8) thru (12).

(4) Remove fuel line (10, Figure 17-7). Refer to paragraph 17-29a, steps (2) thru (4).

(5) Disconnect fuel cable assembly (4, Figure 17-7) from fuel tank (13). Remove pan head machine screw (5, Figure 17-7) and lockwasher (6, Figure 17-7) from loop type clamp (7, Figure 17-7); remove fuel cable assembly (4, Figure 17-7).

(6) Remove P3 power/control cable (8, Figure 17-7). Refer to paragraph 17-18b, step (2).

(7) Remove hex head capscrew (2), lockwasher (3), flatwasher (4), fuel tank ground wire, and vent tube assembly (1) at tube coupling nut.

(8) Remove six round head screws (1, Figure 17-10), lockwashers (2, Figure 17-10), and flatwashers (3, Figure 17-10); remove curbside walkway (28, Figure 17-10).

(9) Remove six round head screws (1, Figure 17-10), lockwashers (2, Figure 17-10), and flatwashers (3, Figure 17-10); remove roadside walkway (4, Figure 17-10).

NOTE

Before removing, match mark each generator support.

(10) Remove four self-locking nuts (15, Figure 17-10), flatwashers (9, Figure 17-10), and hex head capscrews (5, Figure 17-10); remove front generator set support (6, Figure 17-10).

(11) Remove four self-locking nuts (15, Figure 17-10), flatwashers (9, Figure 17-10), and hex head capscrews (5, Figure 17-10); remove middle-front generator set support (27, Figure 17-10).

(12) Remove 6 self-locking nuts (10), 12 flatwashers (9), and 6 hex head capscrews (8); remove fuel tank (13).

(13) Remove three vibration isolators (5, 6, and 11).

b. Disassembly and Repair.

NOTE

Repair of fuel tank is limited to replacement of vent tube assembly connector, fuel-level sensor, fuel-level gage, nonvented cap, filler neck, drain cock, and filler tube.

- (1) Remove connector (14).
- (2) Remove fuel-level sensor (12).
- (3) Remove fuel-level gage (15).
- (4) Remove connector (22).

NOTE

Chain on cap is attached to filler tube.

(5) Remove nonvented cap (20) and filler tube (21).

(6) Remove six pan head screws (19) and flatwashers (18); remove filler neck (21) and filler neck gasket (16).

(7) Remove drain cock (7).

c. Assembly.

- (1) Install drain cock (7).
- (2) Install filler neck gasket (16), filler neck (21), and six flatwashers (18) and pan head screws (19).

(3) Install nonvented cap (20) and filler tube (21).

(4) Install fuel-level gage (15).

(5) Install fuel-level sensor (12).

(b) Install connector (14).

(7) Install connector (22).

d. Installation.

(1) Replace three vibration isolators (5, 6, and 11).

CAUTION

The vent tube assembly must be removed before installing the assembled auxiliary fuel tank. Failure to remove this assembly may damage equipment.

(2) Install fuel tank (13), 12 flatwashers (9), 6 hex head capscrews (8), and self-locking nuts (10).

NOTE

Ensure front generator support is installed with fuel hose assembly cushion mounting clamp mounting hole on the curbside of the trailer.

(3) Install front generator set support (6, Figure 17-10), four hex head capscrews (5, Figure 17-10), flatwashers (9, Figure 17-10), and self-locking nuts (15, Figure 17-10). Torque from 57 to 63 foot-pounds (77.81 to 86.00 newton-meters).

(4) Install middle-front generator set support (27, Figure 17-10), four hex head capscrews (5, Figure 17-10), flatwashers (9, Figure 17-10), and self-locking nuts (15, Figure 17-10). Torque from 57 to 63 foot-pounds (77.81 to 86.00 newton-meters).

(5) Install roadside walkway (4, Figure 17-10), six flatwashers (3, Figure 17-10), lockwashers (2, Figure 17-10), and round head screws (1, Figure 17-10).

(6) Install curbside walkway (28, Figure 17-10), six flatwashers (3, Figure 17-10), lockwashers (2, Figure 17-10), and round head screws (1, Figure 17-10).

(7) Install fuel tank ground wire, flatwasher (4), lockwasher (3), and hex head capscrew (2). Install vent tube assembly (1) at tube coupling nut.

(8) Install P3 power/control cable (8, Figure 17-7). Refer to paragraph 17-18c, steps (5) and (6).

(9) Connect fuel cable assembly (4, Figure 17-7) to fuel tank (13). Install lockwasher (6, Figure 17-7) and pan head machine screw (5, Figure 17-7) on loop type clamp (7, Figure 17-7).

(10) Connect fuel line (10, Figure 17-7) to fuel tank (13).

(11) Install three lockwashers (6, Figure 17-7) and pan head machine screws (5, Figure 17-7) through loop type clamps (9, Figure 17-7).

(12) Install generator set. Refer to paragraph 17-14c, steps (1) thru (6).

(13) Fill fuel tank (13), and check for leaks.

Section VI. TRAILER MAINTENANCE INSTRUCTIONS

17-31. Walkways Maintenance Instructions. (Item numbers below refer to Figure 17-10 unless otherwise indicated.)

WARNING

No smoking or open flame within 50 feet (15.3 meters) of the PU789/M when operating or maintaining it. Do not allow fuel to drain on ground. This will create a fire hazard.

a. Removal.

(1) Disconnect fuel line (10, Figure 17-7) from tube elbow (13, Figure 17-7) at adapter (12, Figure 17-7).

(2) Remove six round head screws (1), lockwashers (2), and flatwashers (3); remove roadside walkway (4).

(3) Remove grommet (11, Figure 17-7) and fuel line (1, Figure 17-7) from curbside walkway (28).

(4) Remove six round head screws (1), lockwashers (2), and flatwashers (3); remove curbside walkway (28).

b. Installation.

(1) Install roadside walkway (4), six flatwashers (3), lockwashers (2), and round head screws (1).

(2) Install fuel line (10, Figure 17-7) through curbside walkway (28).

(3) Install grommet (11, Figure 17-7) in curbside walkway (28).

(4) Install curbside walkway (28), six flatwashers (3), lockwashers (2), and round head screws (1).

(5) Connect fuel line (10, Figure 17-7) to tube elbow (13, Figure 17-7) at adapter (12, Figure 17-7).

17-32. Generator Set Supports Maintenance Instructions. (Item numbers below refer to Figure 17-10 unless otherwise indicated.)

a. Removal.

(1) Disconnect P3 power/control cable (8, Figure 17-7) and fuel cable assembly (4, Figure 17-7) from adapter plate assembly (19, Figure 17-7).

(2) Remove generator set. Refer to paragraph 17-14a, steps (8) thru (12).

(3) Remove fuel line (10, Figure 17-7). Refer to paragraph 17-29a, steps (2) thru (4).

(4) Disconnect fuel cable assembly (4, Figure 17-7) from fuel tank (13, Figure 17-9). Remove pan head machine screw (5, Figure 17-7) and lockwasher (6, Figure 17-7) from loop type clamp (7, Figure 17-7); remove fuel cable assembly (4, Figure 17-7).

(5) Remove curbside walkway (28) and roadside walkway (4). Refer to paragraph 17-31a, steps (2) thru (4).

- (6) Remove storage tray cover
- (7). Refer to paragraph 17-34a, steps (2) thru (4).

NOTE

Before removing, match mark each generator support.

- (7) Remove four self-locking nuts (15), flatwashers (9), and hex head capscrews (5); remove front generator set support (6).

- (8) Remove eight self-locking nuts (15), flatwashers (9), hex head capscrews (5), middle-front generator set support (27), and middle-rear generator set support (29).

- (9) Remove four self-locking nuts (15), flatwashers (9), and hex head capscrews (5); remove rear generator set support (30).

b. Repair.

NOTE

The repair steps apply to all generator set supports.

- (1) Drill out insert nuts as required.
- (2) Remove nut cages and nuts as required.
- (3) Repair generator set supports by welding as required.
- (4) Install nuts and nut cages by welding.
- (5) Install insert nuts.

c. Installation.

- (1) Install rear generator set support (30), four hex head capscrews (5), flatwashers (9), and self-locking nuts (15). Torque from 57 to 63 foot-pounds (77.81 to 86.00 newton-meters).

- (2) Install middle-front generator set support (27), middle-rear generator set support (29), eight hex head capscrews (5), flatwashers (9), and self-locking nuts (15). Torque to 57 from 63 foot-pounds (77.81 to 86.00 newton-meters).

- (3) Install front generator set support (6), four hex head capscrews (5), flatwashers (9), and self-locking nuts (15). Torque from 57 to 63 foot-pounds (77.81 to 86.00 newton-meters).

- (4) Install storage tray cover (7). Refer to paragraph 17-34b.

- (5) Install roadside walkway (4) and curbside walkway (28). Refer to paragraph 17-31b, steps (1) thru (4).

- (6) Connect fuel cable assembly (4, Figure 17-7) to fuel tank (13, Figure 17-9). Install lockwasher (6, Figure 17-7) and pan head machine screw (5, Figure 17-7) on loop type clamp (7, Figure 17-7).

- (7) Connect fuel line (10, Figure 17-7) to fuel tank (13, Figure 17-9).

- (8) Install three lockwashers (6, Figure 17-7) and pan head machine screws (5, Figure 17-7) through loop type clamps (7, Figure 17-7).

- (9) Install generator set. Refer to paragraph 17-14c.

17-33. Tailgate Maintenance Instructions. (Item numbers below refer to Figure 17-10.)

a. Removal.

(1) Release swivel eye snaps (65) and lower tailgate (21).

(2) Remove two hex head cap-screws (23), flatwashers (22), and curbside hinge block (20). Remove tailgate (21).

(3) Remove two hex head cap-screws (23), flatwashers (22), and roadside hinge block (24).

b. Installation.

(1) Install roadside hinge block (24), two flatwashers (22), and hex head capscrews (23).

(2) Install curbside hinge block (20) on tailgate (21).

(3) Install tailgate (21) in roadside hinge block (24). Install curbside hinge block (20), two hex head capscrews (23), and two flatwashers (22).

(4) Raise tailgate (21), and attach swivel eye snaps (65).

17-34. Storage Tray Cover Maintenance Instructions. (Item numbers below refer to Figure 17-10.)

a. Removal.

(1) Remove generator set. Refer to paragraph 17-14a, steps (8) thru (13).

(2) Release swivel eye snaps (65), and lower tailgate (21).

(3) Remove contents of storage tray.

(4) Remove 20 self-locking nuts (13), flatwashers (12), pan head machine screws (8), and storage tray cover (7).

b. Installation.

(1) Position storage tray cover (7), and install 20 pan head machine screws (8), flatwashers (12), and self-locking nuts (13).

(2) Install contents of storage tray.

(3) Raise tailgate (21), and attach swivel eye snaps (65).

(4) Install generator set. Refer to paragraph 17-14c, steps (1) thru (6).

17-35. Storage Tray Maintenance Instructions. (Item numbers below refer to Figure 17-10.)

a. Removal.

(1) Lower tailgate (21).

(2) Remove contents of storage tray.

(3) Remove storage tray cover (7). Refer to paragraph 17-34a.

(4) Remove six flatwashers (9), six hex head capscrews (5), and storage tray (25).

b. Repair.

Repair storage tray (25) by welding as required.

c. Installation.

(1) Place storage tray (25) into position, and install six hex head capscrews (5) and flatwashers (9).

(2) Install storage tray cover. Refer to paragraph 17-34b.

17-36. Fender Brackets Maintenance Instructions. (Item numbers below refer to Figure 17-10.)

a. Removal.

(1) Remove curbside walkway (28) and roadside walkway (4). Refer to paragraph 17-31a.

(2) Remove 8 self-locking nuts (42), hex head capscrews (55), 16 flatwashers (22), and 2 fender brackets (56).

b. Installation.

(1) Install 2 fender brackets (56), 16 flatwashers (22), and 8 hex head capscrews (55) and self-locking nuts (52).

(2) Install roadside walkway (4) and curbside walkway (28). Refer to paragraph 17-31b, steps (1) thru (5).

17-37. Front Steps Maintenance Instructions. (Item numbers below refer to Figure 17-10.)

a. Removal.

(1) Remove 7 self-locking nuts (42), 14 flatwashers (22), and 7 hex head capscrews (40).

(2) Remove two self-locking nuts (45), four flatwashers (44), and two hex head capscrews (43); remove curbside front step (47).

(3) Remove 7 self-locking nuts (45), 14 flatwashers (22), and 7 hex head capscrews (43).

(4) Remove two self-locking nuts (45), four flatwashers (44), and two hex head capscrews (43); remove roadside front step (41).

(5) Remove two self-locking nuts (45), four flatwashers (44), and two hex head capscrews (43); remove front steps support (46).

b. Repair.

(1) Repair front steps (41) and (47) by welding as required.

(2) Repair support (46) by welding as required.

c. Installation.

(1) Install support (46), two hex head capscrews (43), four flatwashers (44), and two self-locking nuts (45).

(2) Install roadside front step (41), 2 self-locking nuts (45), 4 flatwashers (44), 2 hex head capscrews (43), 7 self-locking nuts (42), 14 flatwashers (22), and 7 hex head capscrews (40).

(3) Install curbside front step (47), 2 self-locking nuts (45), 4 flatwashers (44), 2 hex head capscrews (43), 7 self-locking nuts (42), 14 flatwashers (22), and 7 hex head capscrews (40).

17-38. Rear Steps Maintenance Instructions. (Item numbers below refer to Figure 17-10.)

a. Removal.

(1) Remove 5 self-locking nuts (42), 10 flatwashers (22), 5 hex head capscrews (48); remove curbside rear step (51).

(2) Remove 5 self-locking nuts (42), 10 flatwashers (22), 5 hex head capscrews (48); remove roadside rear step (53).

b. Repair.

Repair rear steps (53) and (51) by welding as required.

c. Installation.

(1) Install roadside rear step (53), 10 flatwashers (22), 5 hex head capscrews (48), and 5 self-locking nuts (42).

(2) Install curbside rear step (51), 10 flatwashers (22), 5 hex head capscrews (48), and 5 self-locking nuts (42).

17-39. Ground Wire Assemblies Maintenance Instructions. (Item numbers below refer to Figure 17-10.)

a. Removal.

(1) Remove wingnut (39) and two flatwashers (31); disconnect trailer ground wire assembly (38) from stud (36).

(2) Release two tiedown straps (10), and remove trailer ground wire assembly (38).

(3) Remove four self-locking nuts (13), flatwashers (12), machine screws (11), and two tiedown straps (10).

(4) Disconnect generator set ground wire assembly (32) from generator set.

(5) Disconnect fuel tank ground wire assembly (33) from fuel tank.

(6) Disconnect PDU ground wire assembly (34) from PDU.

(7) Remove plain nut (35) and lockwasher (37), and push stud (36) through trailer chassis.

(8) Remove lockwasher (37), plain nut (35), generator set ground wire assembly (32), fuel tank ground wire assembly (33), PDU ground wire assembly (34), and four flatwashers (31) from stud (36).

(9) Remove plain nut (35) from stud (36).

b. Repair.

NOTE

Repair of ground wire assemblies is limited to replacement of defective components.

c. Installation.

(1) Install four flatwashers (31), generator set ground wire assembly (32), PDU ground wire assembly (34), fuel tank ground wire assembly (33), lockwasher (37), and plain nut (35) on stud (36).

(2) Push stud (36) through chassis, and install lockwasher (37) and plain nut (35) on stud.

(3) Connect PDU ground wire assembly (34) to PDU.

(4) Connect fuel tank ground wire assembly (33) to fuel tank.

(5) Connect generator set ground wire assembly (32) to generator set.

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(6) Install two tiedown straps (10), four machine screws (11), flatwashers (12), and self-locking nuts (13).

(7) Secure trailer ground wire assembly (38) to trailer with tiedown straps.

(8) Connect trailer ground wire assembly (38) to stud (36). Install two flatwashers (31) and wingnut (39).

17-40. Identification and Data Plate Maintenance Instructions. (Item numbers below refer to Figure 17-10.)

NOTE

For maintenance of M353 trailer, refer to TM 9-2330-247-14&P.

a. Removal.

(1) Remove hook and chain assembly (62).

**Section VII. REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT LEVEL REPAIR PARTS AND SPECIAL TOOLS)**

The following section lists repair parts and special tools required for maintenance of the power unit only.

(2) Drill out drive screws (16), and remove identification plate (17 or 18) or handling data plate (19) as required.

b. Installation.

(1) Install new identification plate (17 or 18) or handling data plate (19) and new drive screws (16).

(2) Install hook and chain assembly (62).

17-41. Intervehicle Power Cable Kit. (Item number below refers to Figure 17-7).

a. Test.

Using multimeter, test intervehicle power cable kit (42) for continuity.

For generator set parts information, refer to TM 5-6115-465-24P. For trailer parts information, refer to TM 9-2330-247-14&P.

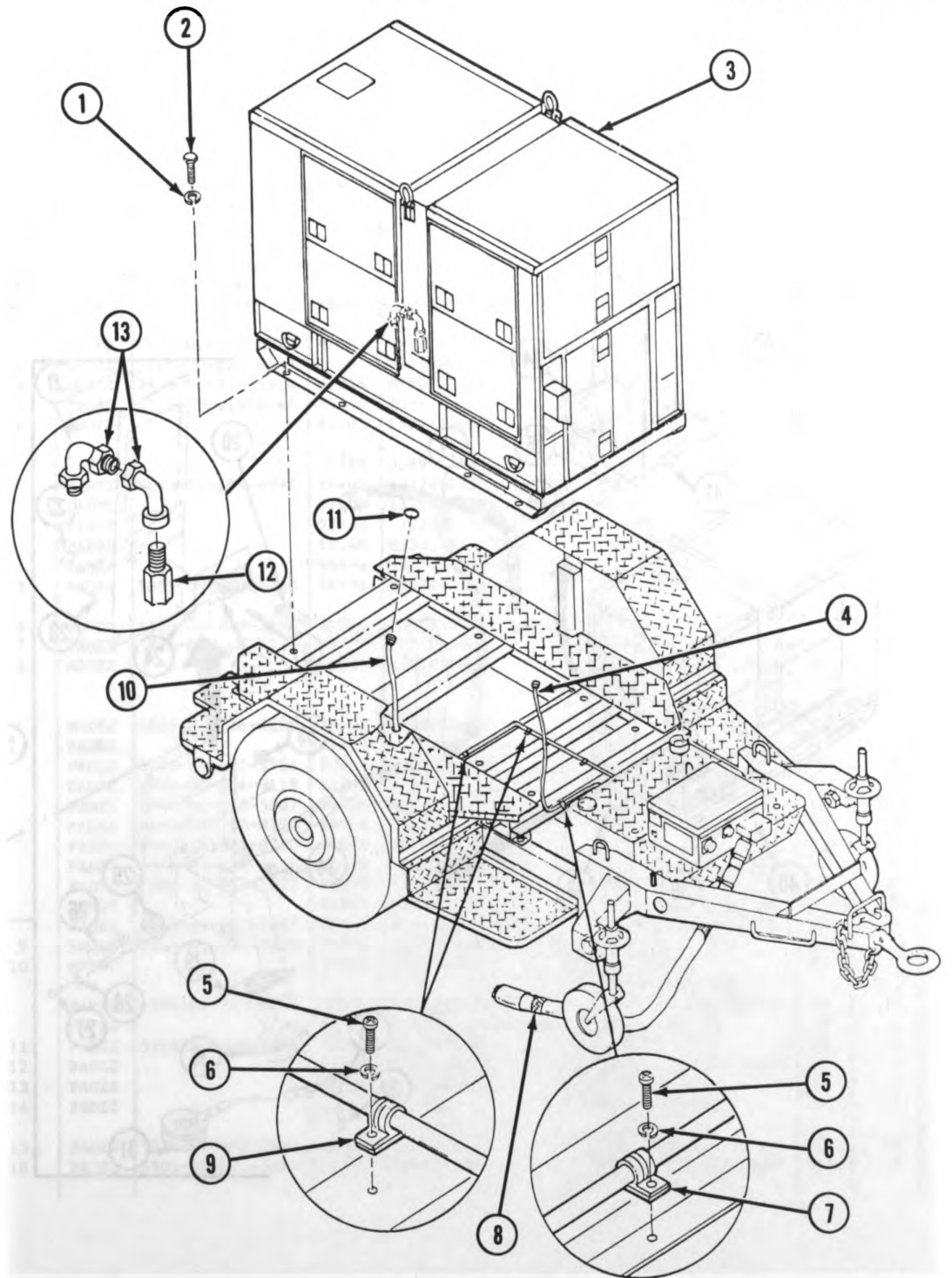


Figure 17-7. Power Unit, PU789/M
(Sheet 1 of 2)

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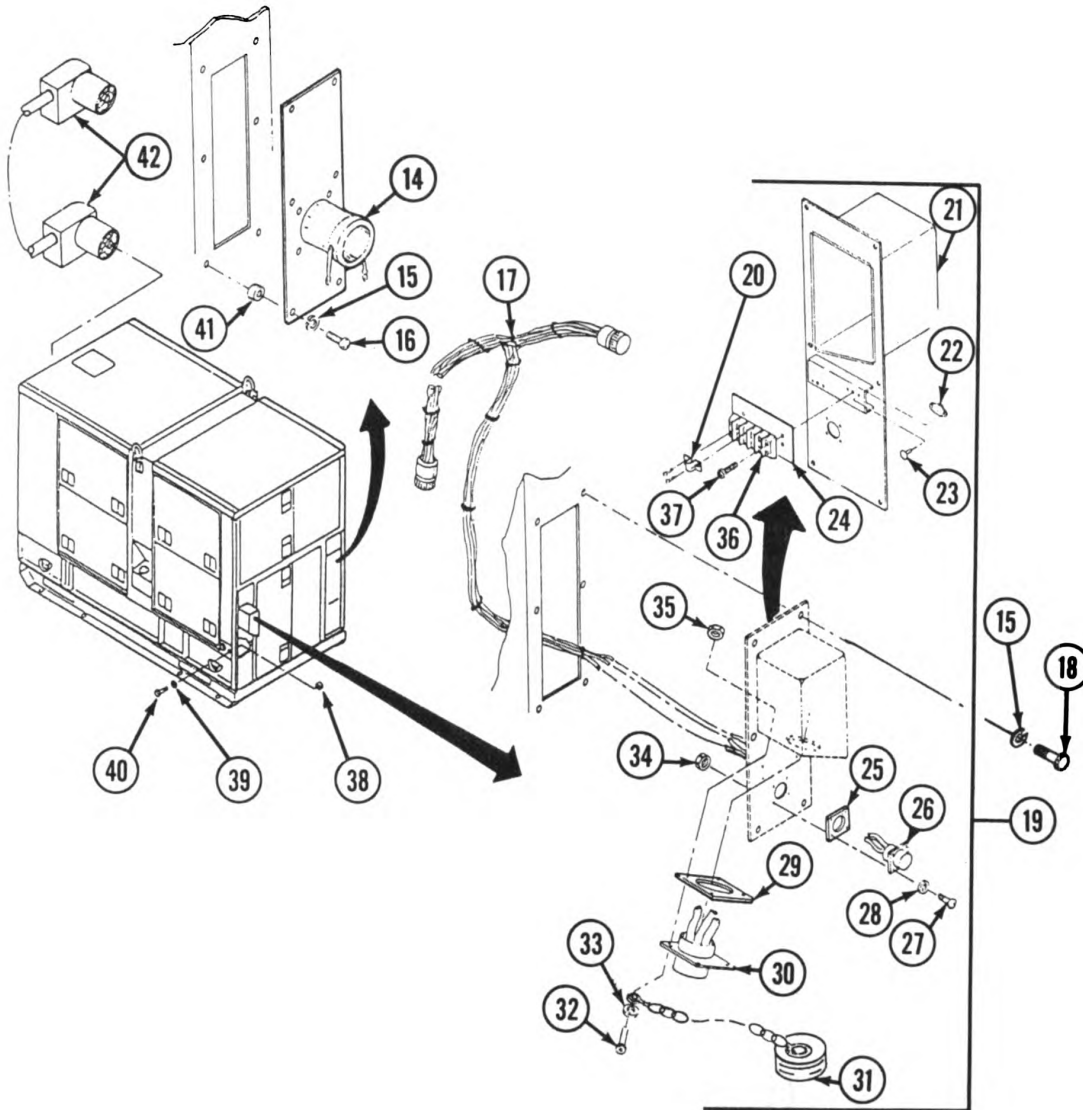


Figure 17-7. Power Unit, PU789/M
(Sheet 2 of 2)

17-50 Change 2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG. NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
17-7		PDOFF	6115-01-208-9827	97403	13227E5850	POWER UNIT, PU789/M	EA	1
17-7	1	PAOZZ	5310-00-820-6653	96906	MS35338-50	WASHER, LOCK	EA	8
17-7	2	PAOZZ	5305-00-724-5914	96906	MS90725-168	SCREW, CAP, HEX HEAD	EA	8
17-7	3	PDOFH	6115-00-118-1248	30554	70-114	GEN SET, 30 KW	EA	1
17-7	4	MDOFF		97403	13227E5869	CABLE ASSY, P4, P7; MANUFACTURE FROM:	EA	1
17-7		PAFZZ		81349	D38999/26FD5PN	CONNECTOR, PLUG	EA	1
17-7		PADZZ	6145-01-129-6897	97403	13222E1427	CABLE	FT	V
17-7		PADZZ		97403	13226E6147-12	BACKSHELL	EA	1
17-7		PADZZ		97403	13226E6147-15	BACKSHELL	EA	1
17-7		PADZZ		81349	M23053/5-107-0	INSULATION SLEEVING	FT	V
17-7		PADZZ		96906	MS3106R14S-2S	CONNECTOR, PLUG	EA	1
17-7	5	PAOZZ	5305-00-993-1848	96906	MS35207-265	SCREW, MACHINE PAN HEAD	EA	4
17-7	6	PAOZZ	5310-00-045-3296	96906	MS35338-43	WASHER, LOCK	EA	4
17-7	7	PAOZZ	5340-01-148-3722	96906	MS21919WCG6	CLAMP, LOOP TYPE	EA	1
17-7	8	MDOZZ		97403	13227E5868	CABLE, POWER/CONTROL P3; MANUFACTURE FROM:	EA	1
17-7		PADZZ	5935-01-136-9896	97403	13226E1440	PLUG, ELECTRICAL	EA	1
17-7		PADZZ		97403	13226E1336-1	SLEEVE, CABLE	EA	1
17-7		PAOZZ	6145-01-135-5951	97403	13222E8995	CABLE, POWER	FT	V
17-7		PADZZ	5970-00-834-9119	81349	M23053/5-112-0	INSULATION SLEEVING	FT	V
17-7		PADZZ	5940-00-115-5007	96906	MS25036-130	TERMINAL LUG	EA	3
17-7		PADZZ	5940-00-113-8190	96906	MS25036-122	TERMINAL LUG	EA	1
17-7		PADZZ	5940-00-283-5280	96906	MS25036-106	TERMINAL LUG	EA	4
17-7		PADZZ	5970-00-914-3118	81349	M23053/5-109-0	INSULATION SLEEVING	FT	V
17-7		PADZZ	5970-00-954-1622	81349	M23053/5-105-0	INSULATION SLEEVING	FT	V
17-7		PADZZ		81349	M23053/5-114-0	INSULATION SLEEVING	FT	V
17-7		PADZZ	5970-00-812-2967	81349	M23053/5-108-0	INSULATION SLEEVING	FT	V
17-7	9	PAOZZ	5340-01-195-5220	96906	MS21919WCG-13	CLAMP, LOOP TYPE	EA	3
17-7	10	MFOFF		97403	13227E5882	FUEL LINE MANUFACTURE FROM:	EA	1
17-7		PAFZZ	4730-00-542-2807	97403	13222E7029-3	FITTING, SOCKETLESS	EA	2
17-7		PAFZZ		81349	MIL-H-13444 TYPE I	HOSE, .500 ID	FT	V
17-7	11	PAOZZ	5325-00-270-8889	96906	MS35489-81	GROMMET	EA	1
17-7	12	PAOZZ		97403	13227E5879	ADAPTER, 37 DEG FLARE	EA	1
17-7	13	PAOZZ		97403	13227E5848-1	ELBOW, TUBE	EA	2
17-7	14	XBDZZ		30554	69-580	PLATE ASSEMBLY, SLEEVE	EA	1
17-7	15	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK	EA	26
17-7	16	PAOZZ	5305-00-071-2511	96906	MS90725-15	SCREW, CAP, HEX HEAD	EA	4

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG. NO.	(b) ITEM NO.	SHR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
17-7	17	MFOFF		97403	13227E5843	WIRING HARNESS, P12, J11; MANUFACTURE FROM:	EA	1
17-7		PAFZZ		96906	MS3106R20-29S	CONNECTOR, PLUG	EA	1
17-7		PAFZZ		96906	MS3101R20-29P	CONNECTOR, PLUG	EA	1
17-7		PAFZZ	5940-00-283-5280	96906	MS25036-106	TERMINAL LUG	EA	5
17-7		PAFZZ	5970-00-812-2967	81349	M23053/5-108-0	INSULATION SLEEVING	FT	V
17-7		PAFZZ	5975-00-727-5153	96906	MS3367-4-9	STRAP, TIEDOWN	EA	V
17-7		PAFZZ	5970-00-954-1622	81349	M23053/5-105-0	INSULATION SLEEVING	FT	V
17-7		PAFZZ	6145-01-108-6907	81349	M16878/4BJE9	WIRE ELECTRICAL	FT	V
17-7		PAFZZ	5935-00-823-5322	96906	MS25251-16	PLUG, END SEAL	EA	15
17-7	18	PAOZZ	5305-00-068-0502	96906	MS90725-6	SCREW, CAP, HEX HEAD	EA	6
17-7	19	MDOFF		97403	13227E5859	PLATE ASSY, ADAPTER; MANUFACTURE FROM:	EA	1
17-7	20	PAFZZ		81349	TEJA	JUMPER, TERMINAL BRD	EA	1
17-7	21	PAFZZ		97403	13227E5860	PLATE, ADAPTER, GENERATOR SET	EA	1
17-7	22	PAFZZ	5310-00-726-9076	96906	MS21077-06	NUT, SELF-LOCKING	EA	2
17-7	23	PAFZZ	5320-00-411-9439	11815	CCR264SS-3-3	RIVET	EA	4
17-7	24	PADZZ		75382	13222E9687-6	MARKER STRIP	EA	1
17-7	25	PAFZZ	5999-01-198-6172	97403	13226E7052-1	GASKET, EMI	EA	1
17-7	26	MDFPF		97403	13227E5842	WIRING HARNESS, J4; MANUFACTURE FROM:	EA	1
17-7		PAFZZ	5935-01-190-6729	81349	D38999/20FD5SN	CONNECTOR	EA	1
17-7		PAFZZ	5940-00-283-5280	96906	MS25036-106	TERMINAL LUG	EA	2
17-7		PAFZZ	5970-00-815-1295	81349	M23053/5-106-0	INSULATION SLEEVING	FT	V
17-7		PAFZZ	6145-01-108-6907	81349	M16878/4BJE9	WIRE, ELECTRICAL	FT	V
17-7		PADZZ	5975-00-727-5153	96906	MS3367-4-9	STRAP, TIEDOWN	EA	V
17-7	27	PAFZZ	5305-00-054-5653	96906	MS51957-19	SCREW, PAN HEAD	EA	4
17-7	28	PAFZZ	5310-00-950-1310	96906	MS27183-4	WASHER, FLAT	EA	4
17-7	29	PAFZZ	5999-01-181-8436	97403	13226E7052-4	GASKET, EMI	EA	1
17-7	30	MDFPF		97403	13227E5870	WIRING HARNESS, J3; MANUFACTURE FROM:	EA	1
17-7		PAFZZ	5935-01-181-8405	18876	MIS-20045/2-019	CONNECTOR, ELECTRICAL	EA	1
17-7		PAFZZ		81349	M23053/5-105-0	INSULATION SLEEVING	FT	V
17-7		PAFZZ		81349	M23053/5-109-0	INSULATION SLEEVING	FT	V
17-7		PAFZZ	5970-00-812-2967	81349	M23053/5-108-0	INSULATION SLEEVING	FT	V
17-7		PAFZZ	5940-00-283-5280	96906	MS25036-106	TERMINAL LUG	EA	4
17-7		PAFZZ	6145-01-197-2687	81349	M16878/8BTM9	WIRE, ELECTRICAL	FT	V
17-7		PAFZZ	6145-01-195-9844	81349	M16878/8BJE9	WIRE, ELECTRICAL	FT	V
17-7		PAFZZ	6145-01-197-2688	81349	M16878/8BPL9	WIRE, ELECTRICAL	FT	V
17-7		PAFZZ	5975-00-727-5153	96906	MS3367-4-9	STRAP, TIEDOWN	EA	V
17-7	31	PAFZZ	5935-00-060-2294	96906	MS17349C40B	COVER, PROTECTIVE	EA	1
17-7	32	PAFZZ	5305-00-059-3661	96906	MS51958-65	SCREW, MACHINE, PAN HEAD	EA	4
17-7	33	PAFZZ	5310-00-014-5850	96906	MS27183-42	WASHER, FLAT	EA	4
17-7	34	PAFZZ	5310-00-088-0551	96906	MS21044N04	NUT, SELF-LOCKING	EA	4
17-7	35	PAFZZ	5310-00-877-5797	96906	MS21044N3	NUT, SELF-LOCKING	EA	4
17-7	36	PAFZZ	5940-00-983-6046	81349	37TB5	TERMINAL BOARD	EA	1
17-7	37	PAFZZ	5305-00-054-6656	96906	MS51957-32	SCREW, MACHINE	EA	2
17-7	38	PAOZZ	5310-00-984-3806	96906	MS51922-9	NUT, SELF-LOCKING	EA	4
17-7	39	PAOZZ	5310-00-081-4219	96906	MS27183-12	WASHER, FLAT	EA	4
17-7	40	PAOZZ	5306-00-225-8498	96906	MS90725-33	SCREW, CAP, HEX HEAD	EA	4
17-7	41	PAOZZ		97403	13220E8192	SPACER	EA	4
17-7	42	PDOZZ	2590-00-148-7961	19207	11682379-1	KIT, INTERVEHICLE POWER CABLE	EA	1
17-7		PAOZZ	6150-01-022-6004	19207	11682336-1	CABLE ASSY	EA	1
17-7		PAOZZ	5935-00-322-8959	19207	11677570	ADAPTER	EA	2

TM 5-6115-594-14&P
TO 35C2-3-1-461

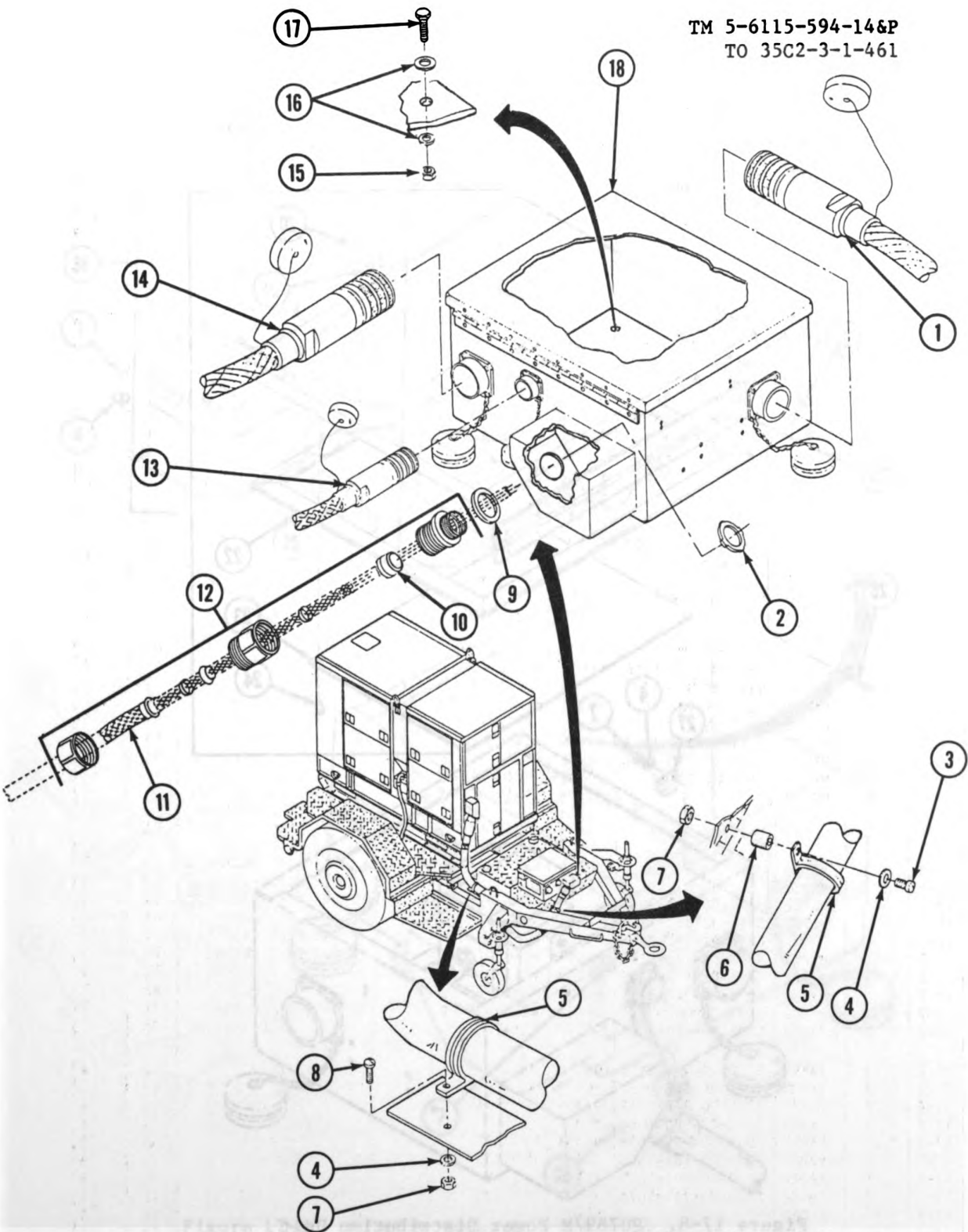


Figure 17-8. PU789/M Power Distribution Unit
(Sheet 1 of 4)

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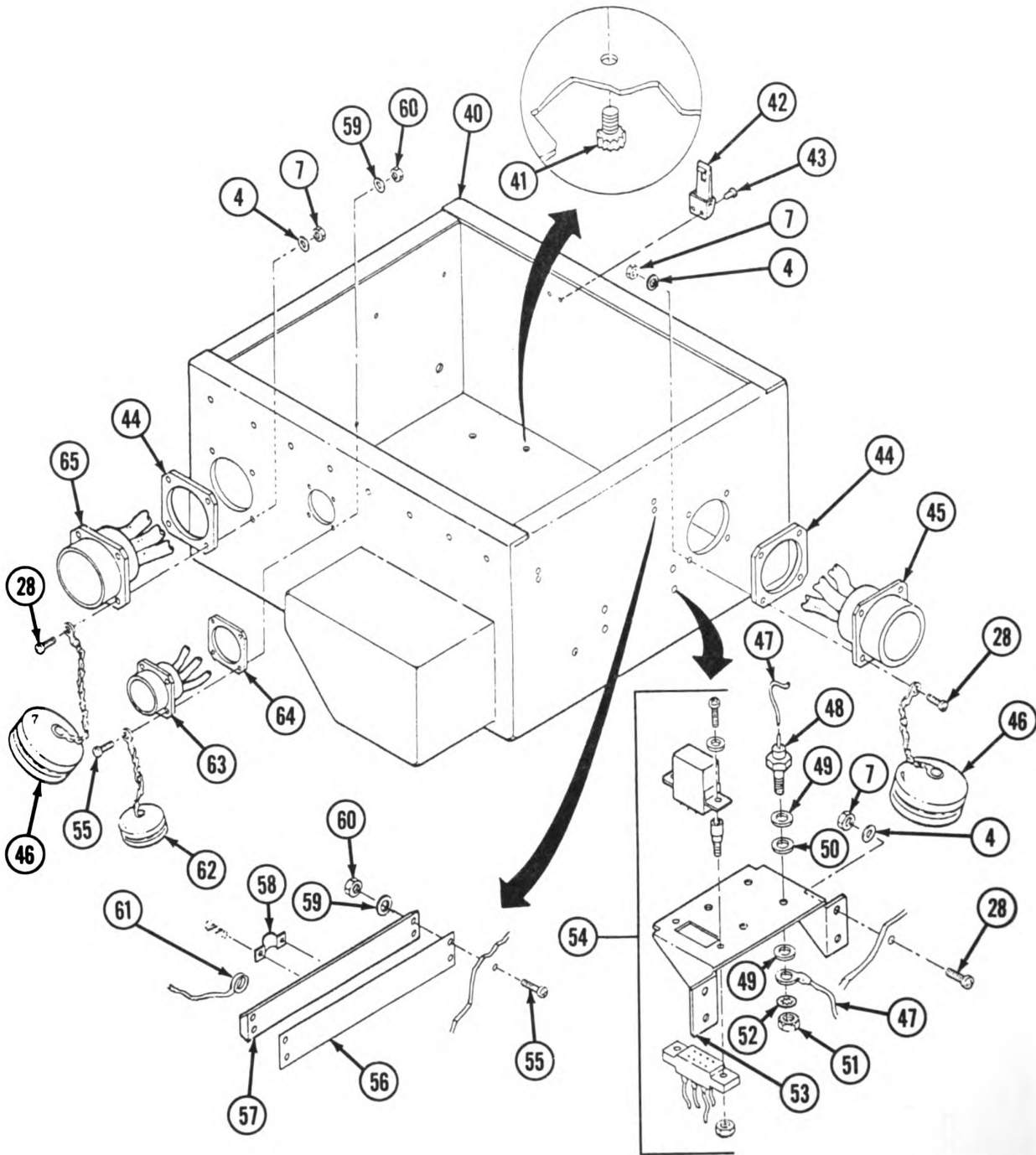


Figure 17-8. PU789/M Power Distribution Unit
(Sheet 4 of 4)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG. NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
17-8	1	MDOZZ		97403	13227E5877-2	CABLE, POWER/CONTROL; MANUFACTURE FROM:	EA	1
17-8		PADZZ	5935-01-136-9896	97403	13226E1440	PLUG, ELECTRICAL	EA	1
17-8		PAFZZ	5934-01-137-3101	97403	13226E1410	PLUG, ELECTRICAL	EA	1
17-8		PADZZ	6145-01-135-5951	97403	1322E8995	CABLE, POWER	FT	V
17-8		PADZZ	6145-01-143-0040	97403	13226E1336-2	SLEEVE, CABLE	EA	2
17-8		PADZZ	5970-00-789-6832	81349	M23053/5-114-0	INSULATION SLEEVING	FT	V
17-8		PADZZ	5970-00-834-9119	81349	M23053/5-112-0	INSULATION SLEEVING	FT	V
17-8	2	PADZZ	5975-00-100-8776	97403	13215E7892-6	LOCKNUT, CONDUIT	EA	1
17-8	3	PAOZZ	5305-00-995-3441	96906	MS35207-269	SCREW, PAN HEAD	EA	1
17-8	4	PAOZZ	5310-00-014-5850	96906	MS27183-42	WASHER, FLAT	EA	27
17-8	5	PAOZZ	5340-01-196-0276	96906	MS21919WCG27	CLAMP, LOOP TYPE	EA	3
17-8	6	PAOZZ	5365-00-294-0580	80205	NAS43DD3-48	SPACER	EA	1
17-8	7	PAOZZ	5310-00-877-5797	96906	MS21044N3	NUT, SELF-LOCKING	EA	31
17-8	8	PAOZZ	5305-00-993-1848	96906	MS35207-265	SCREW, MACHINE, PAN HEAD	EA	2
17-8	9	PADZZ	5330-01-181-8380	97403	13226E7768-2	GASKET, EMI	EA	1
17-8	10	PAOZZ	3120-01-181-9363	97403	13226E6162-2	BUSHING	EA	1
17-8	11	PAOZZ		97403	13226E9503-2	GRIP, CABLE	EA	1
17-8	12	XDDZZ		97403	13226E9502-1	SEALING GRIP, EMI	EA	1
17-8	13	MDOZZ		97403	1322E1440	CABLE, CONTROL; MANUFACTURE FROM:	EA	1
17-8		PADZZ	5935-01-182-8884	18876	MIS-20045/1-015	CONNECTOR, PLUG	EA	2
17-8		PADZZ	6145-01-182-8781	18876	MIS-20076/1-005	CABLE	FT	V
17-8		PADZZ		97403	13226E1336-3	SLEEVE, CABLE	EA	2
17-8		PADZZ	5970-00-781-6826	81349	M23053/5-113-0	INSULATION SLEEVING	FT	V
17-8		PADZZ	5970-00-812-1356	81349	M23053/5-111-0	INSULATION SLEEVING	FT	V
17-8	14	MDOZZ		97403	13227E5877-1	CABLE, POWER/CONTROL; MANUFACTURE FROM:	EA	1
17-8		PADZZ	5935-01-136-9896	97403	13226E1440	PLUG, ELECTRICAL	EA	1
17-8		PADZZ	5934-01-137-3101	97403	13226E1410	PLUG, ELECTRICAL	EA	1
17-8		PADZZ	6145-01-135-5951	97403	1322E8995	CABLE, POWER	FT	V
17-8		PADZZ	6145-01-143-0040	97403	13226E1336-2	SLEEVE, CABLE	EA	2
17-8		PADZZ	5970-00-781-6832	81349	M23053/5-114-0	INSULATION SLEEVING	FT	V
17-8		PADZZ	5970-00-834-9119	81349	M23053/5-112-0	INSULATION SLEEVING	FT	V
17-8	15	PAOZZ	5310-00-225-6993	96906	MS51922-33	NUT, SELF-LOCKING	EA	4
17-8	16	PAOZZ	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT	EA	8
17-8	17	PAOZZ	5305-00-071-2069	96906	MS90725-113	SCREW, CAP, HEX HEAD	EA	4
17-8	18	MDOFF		97403	13227E5855	POWER DIST UNIT	EA	1
17-8	19	PAFZZ		97403	13227E5857	COVER, ENCLOSURE	EA	1
17-8	20	PAFZZ	5320-00-208-9632	96906	MS20427-4C7	RIVET	EA	2
17-8	21	PBFZZ		97403	13227E5844-1	STRIKE, HOOK	EA	1
17-8	22	PAFZZ	5999-01-181-8435	97403	1322E9695-3	STRIP, SEALING	RL	V
17-8	23	XDDZZ		97403	13227E5888	DIAGRAM, SCHEMATIC	FA	1
17-8	24	PAFZZ	5320-00-075-5139	96906	MS20613-3P5	RIVET	EA	6
17-8	25	PAFZZ	5340-01-054-6092	96906	MS35826-10C	HINGE, BUTT	EA	1
17-8	26	PAFZZ		96906	MS20427-4C6	RIVET, SOLID	EA	8
17-8	27	PAFZZ	5340-01-148-3722	96906	MS21919WCG6	CLAMP, LOOP TYPE	EA	5
17-8	28	PAFZZ	5305-00-059-3661	96906	MS51958-65	SCREW, MACHINE, PAN HEAD	EA	21
17-8	29	PAOZZ	5310-01-078-5996	96906	MS35425-75	NUT, WING	EA	1
17-8	30	PAOZZ	5307-00-227-1741	97403	13214E1223	STUD, GROUND	EA	1
17-8	31	PAOZZ	5310-00-187-2413	88044	AN961-616T	WASHER, FLAT	EA	5
17-8	32	PAOZZ	5310-00-410-3023	96906	MS35649-2386	NUT, PLAIN	EA	3
17-8	33	PAOZZ	5310-00-022-8847	96906	MS35333-110	WASHER, LOCK	EA	2
17-8	34	MDFFF		97403	13227E5875	WIRING HARNESS, P9; MANUFACTURE FROM:	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG. NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
17-8		PAFZZ	5935-01-076-5725	96906	MS3106R20-29S	CONNECTOR, PLUG	EA	1
17-8		PAFZZ	5940-00-283-5280	96906	MS25036-106	TERMINAL LUG	EA	2
17-8		PAFZZ	5970-00-815-1295	81349	M23053/5-106-0	INSULATION SLEEVING	FT	V
17-8		PAFZZ	6145-01-108-6907	81349	M16878/4BJE9	WIRE, ELECTRICAL	FT	V
17-8		PAFZZ	5975-00-727-5153	96906	MS3367-4-9	STRAP, TIEDOWN	EA	V
17-8		PAFZZ	5935-00-823-5322	96906	MS25251-16	PLUG, END SEAL	EA	13
17-8	35	MDFFF		97403	13227E5874	WIRING HARNESS, P8; MANUFACTURE FROM:	EA	1
17-8		PAFZZ	5935-01-076-5725	96906	MS3106R20-29S	PLUG, ELECTRICAL	EA	1
17-8		PAFZZ	6145-01-108-6907	81349	M16878/4BJE9	WIRE, ELECTRICAL	FT	V
17-8		PAFZZ	5940-00-283-5280	96906	MS25036-106	TERMINAL LUG	EA	2
17-8		PAFZZ	5975-00-727-5153	96906	MS3367-4-9	STRAP, TIEDOWN	EA	V
17-8		PAFZZ	5935-00-823-5322	96906	MS25251-16	PLUG, END SEAL	EA	13
17-8		PAFZZ	5970-00-815-1295	81349	M23053/5-106-0	INSULATION SLEEVING	FT	V
17-8	36	PAFZZ	5945-01-165-1065	30554	70-501	CONTACTOR	EA	2
17-8	37	MDDZZ		97403	13227E5878-1	LEAD, ELECTRICAL; MANUFACTURE FROM:	EA	1
17-8		PADZZ	5940-00-115-5007	96906	MS25036-130	TERMINAL LUG	EA	2
17-8		PADZZ	6145-01-197-2687	81349	M16878/8BTM9	WIRE, ELECTRICAL	FT	V
17-8		PADZZ	5970-00-914-3118	81349	M23053/5-109-0	INSULATION SLEEVING	FT	V
17-8	38	MDDZZ		97403	13227E5878-2	LEAD, ELECTRICAL; MANUFACTURE FROM:	EA	1
17-8		PADZZ	5940-00-115-5007	96906	MS25036-130	TERMINAL LUG	EA	2
17-8		PADZZ	6145-01-197-2687	81349	M16878/8BTM9	WIRE, ELECTRICAL	FT	V
17-8		PADZZ	5970-00-914-3118	81349	M23053/5-109-0	INSULATION SLEEVING	FT	V
17-8	39	MDDZZ		97403	13227E5878-3	LEAD ELECTRICAL; MANUFACTURE FROM:	EA	1
17-8		PADZZ	5940-00-115-5007	96906	MS25036-130	TERMINAL LUG	EA	2
17-8		PADZZ	6145-01-197-2687	81349	M16878/8BTM9	WIRE, ELECTRICAL	FT	V
17-8		PADZZ	5970-00-914-3118	81349	M23053/5-109-0	INSULATION SLEEVING	FT	V
17-8	40	XDFZZ		97403	13227E5856	HOUSING PDU	EA	1
17-8	41	PAFZZ		97403	13217E1526-92	STUD, SELF- CLINCHING	EA	8
17-8	42	PAFZZ		97403	13227E5883-1	LATCH	EA	
17-8	43	PAFZZ	5320-00-882-4599	96906	MS20613-4P6	RIVET	EA	
17-8	44	PAFZZ	5999-01-181-8436	97403	13226E7052-4	GASKET, EMI	EA	
17-8	45	MDFZZ		97403	13227E5873	WIRING HARNESS, J10; MANUFACTURE FROM:	EA	
17-8		PADZZ	5935-01-192-8928	18876	MIS-20045/2-020	CONNECTOR, RECEPT	EA	
17-8		PADZZ	5970-00-914-3118	81349	M23053/5-109-0	INSULATION SLEEVING	FT	
17-8		PADZZ	5970-00-812-2967	81349	M23053/5-108-0	INSULATION SLEEVING	FT	
17-8		PADZZ	5940-00-283-5280	96906	MS25036-106	TERMINAL LUG	EA	
17-8		PADZZ	5940-00-113-8190	96906	MS25036-122	TERMINAL LUG	EA	
17-8		PADZZ	5940-00-115-5007	96906	MS25036-130	TERMINAL LUG	FT	
17-8		PADZZ	6145-01-197-2687	81349	M16878/8BTM9	WIRE ELECTRICAL	FT	
17-8		PADZZ	6145-01-197-2688	81349	M16878/8BPL9	WIRE ELECTRICAL	FT	
17-8		PADZZ	6145-01-108-6907	81349	M16878/4BJE9	WIRE ELECTRICAL	FT	
17-8		PAFZZ	5975-00-727-5153	96906	MS3367-4-9	STRAP, TIEDOWN	EA	
17-8	46	PAOZZ	5935-00-060-2294	96906	MS17349C40B	COVER, PROTECTIVE	EA	
17-8	47	MDFZZ		97403	13227E5876	WIRING HARNESS, CONTROL RELAY/ DIODES; MANUFACTURE FROM:	EA	
17-8		PADZZ	5940-00-204-8966	96906	MS25036-102	TERMINAL LUG	EA	1
17-8		PADZZ	5940-00-159-1290	96906	MS77066-4	TERMINAL LUG	EA	
17-8		PADZZ	6145-00-500-3079	81349	M16878/4BHB9	WIRE, ELECTRICAL	FT	
17-8		PAOZZ	5970-00-954-1624	81349	M23053/5-107-0	INSULATION SLEEVING	FT	
17-8		PADZZ		97403	13222E9686	SOCKET, RELAY	EA	

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG. NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
17-8		PADZZ	5975-00-111-3208	96906	MS3367-5-9	STRAP, TIEDOWN	EA	V
17-8		PADZZ	5970-00-954-1622	81349	M23053/5-105-0	INSULATION SLEEVING	FT	V
17-8	48	PAFZZ		80131	1N1202A	DIODE	EA	4
17-8	49	PAFZZ	5310-00-138-4315	96906	MS51859-5	WASHER, PLASTIC	EA	8
17-8	50	PAFZZ		80205	NAS47N3A-006	SPACER	EA	4
17-8	51	PAFZZ	5310-00-934-9765	96906	MS35650-304	NUT, PLAIN	EA	4
17-8	52	PAFZZ	5310-00-019-0627	96906	MS35333-107	WASHER, LOCK	EA	4
17-8	53	XDFZZ		97403	13227E5858	BRACKET	EA	1
17-8	54	PAFZZ	5945-00-435-1833	81349	M5757/23-003	RELAY, K3	EA	1
17-8	55	PAFZZ	5305-00-054-6656	96906	MS51957-32	SCREW, MACHINE	EA	4
17-8	56	PAFZZ		97403	13222E9687-2	MARKER STRIP	EA	1
17-8	57	PAFZZ	5940-00-983-6059	81349	37TB18	TERMINAL BOARD	EA	1
17-8	58	PAFZZ		81349	TBJA	JUMPER, TERMINAL BOARD	EA	2
17-8	59	PAFZZ	5310-00-082-1404	96906	MS27183-6	WASHER, FLAT	EA	8
17-8	60	PAFZZ	5310-00-081-8087	96906	MS21044N06	NUT, SELF-LOCKING	EA	8
17-8	61	MFOZZ		97403	13227E6152-19	WIRE ASSY, GROUND; MANUFACTURE FROM:	EA	1
17-8		PAOZZ	5940-00-133-8190	96906	MS25036-122	TERMINAL LUG	EA	1
17-8		PAOZZ	6145-01-196-0273	81349	HW-C6(127)JO	WIRE	EA	1
17-8	62	PAFZZ	5935-00-060-2286	96906	MS17349C24B	COVER, PROTECTIVE	EA	1
17-8	63	MDFZZ		97403	13227E5871	WIRING HARNESS, J6; MANUFACTURE FROM:	EA	1
17-6		PADZZ	5935-01-182-8980	18876	MIS-20045/2-016	CONNECTOR, ELECTRICAL	EA	1
17-8		PADZZ	5970-00-812-2967	81349	M23053/5-108-0	INSULATION SLEEVING	FT	V
17-8		PADZZ	5940-00-283-5280	96906	MS25036-106	TERMINAL LUG	EA	7
17-8		PADZZ	5970-00-954-1622	81349	M23053/5-105-0	INSULATION SLEEVING	FT	V
17-8		PADZZ	6145-01-108-6907	81349	M16878/4BJE9	WIRE, ELECTRICAL	FT	V
17-8		PADZZ	5975-00-727-5153	96906	MS3367-4-9	STRAP, TIEDOWN	EA	V
17-8	64	PADZZ	5999-01-181-8437	97403	13226E7052-2	GASKET, EMI	EA	1
17-8	65	MDFZZ		97403	13227E5872	WIRING HARNESS, J1; MANUFACTURE FROM:	EA	1
17-8		PADZZ	5935-01-181-8405	18876	MIS-20045/2-019	CONNECTOR, ELECTRICAL	EA	1
17-8		PADZZ	6145-01-197-2687	81349	M16878/8BTM9	WIRE, ELECTRICAL	FT	V
17-8		PADZZ	6145-01-197-2688	81349	M16878/8BPL9	WIRE, ELECTRICAL	FT	V
17-8		PADZZ	6145-01-108-6907	81349	M16878/4BJE9	WIRE, ELECTRICAL	FT	V
17-8		PADZZ	5940-00-283-5280	96906	MS25036-106	TERMINAL LUG	EA	2
17-8		PADZZ	5940-00-115-5007	96906	MS25036-130	TERMINAL LUG	EA	3
17-8		PADZZ	5940-00-113-8190	96906	MS25036-122	TERMINAL LUG	EA	1
17-8		PADZZ	5970-00-954-1622	81349	M23053/5-105-0	INSULATION SLEEVING	FT	V
17-8		PADZZ	5970-00-914-3118	81349	M23053/5-109-0	INSULATION SLEEVING	FT	V
17-8		PADZZ	5970-00-812-2967	81349	M23053/5-108-0	INSULATION SLEEVING	FT	V
17-8		PADZZ	5975-00-727-5153	96906	MS3367-4-9	STRAP, TIEDOWN	EA	V

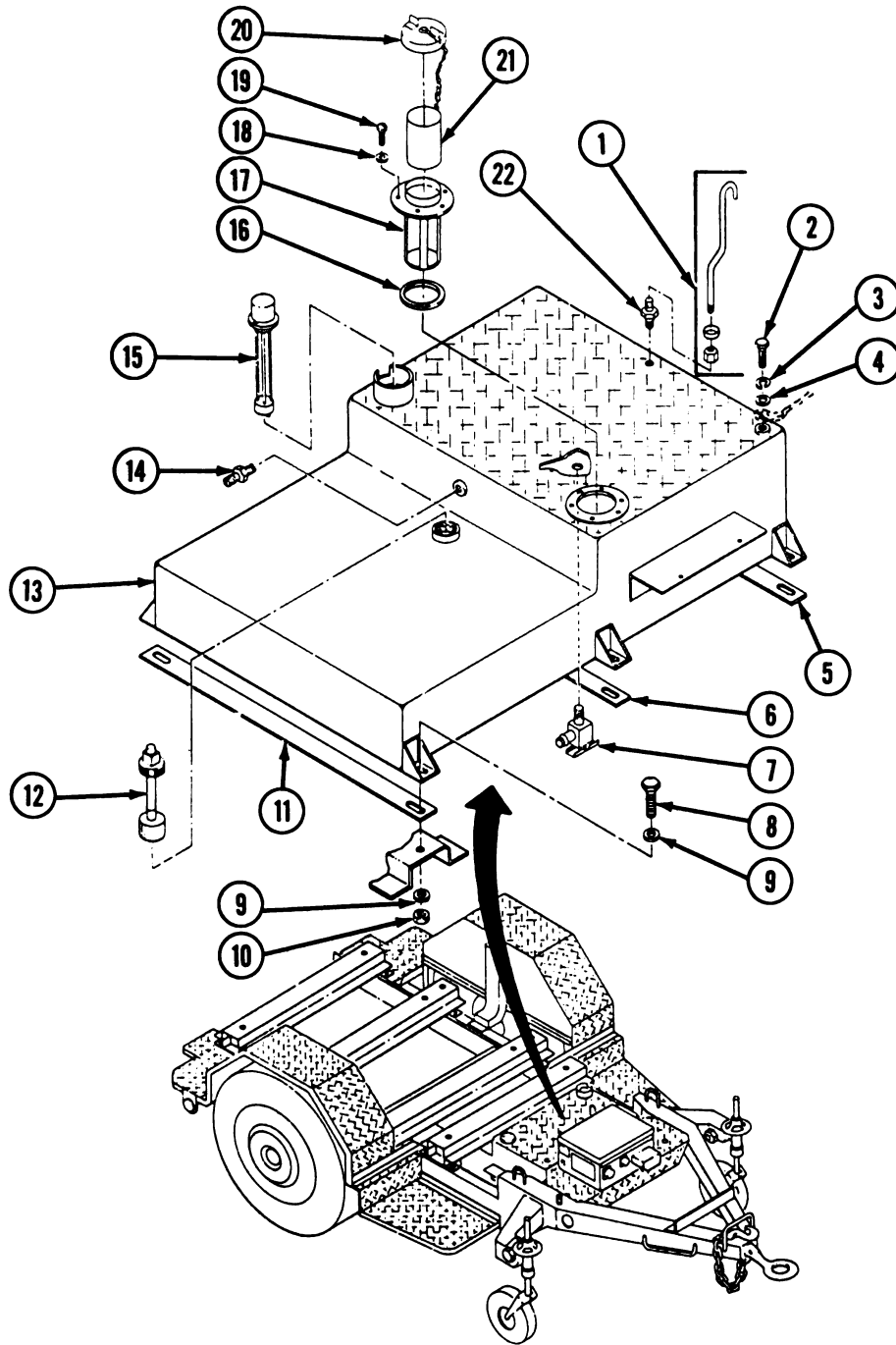


Figure 17-9. PU789/M Fuel Tank Assembly

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG. NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
17-9	1	MFOOO		97403	13227E5847	TUBE ASSEMBLY, VENT; MANUFACTURE FROM:	EA	1
17-9		PAFZZ		81348	UNS S30400	TUBE	EA	1
17-9		PAFZZ		96906	MS51533B8S	SLEEVE	EA	1
17-9		PAFZZ		96906	MS51531B8S	NUT, TUBE COUPLING	EA	1
17-9	2	PAOZZ	5305-00-269-3206	96906	MS90725-55	SCREW, CAP, HEX HEAD	EA	1
17-9	3	PAOZZ	5310-00-022-8847	96906	MS35333-110	WASHER, LOCK	EA	1
17-9	4	PAOZZ	5310-00-187-2413	88044	AN961-616T	WASHER, FLAT	EA	1
17-9	5	PAFZZ		97403	13227E5846-1	ISOLATOR, VIBRATION	EA	1
17-9	6	PAFZZ		97403	13227E5846-2	ISOLATOR, VIBRATION	EA	1
17-9	7	PAOZZ	4820-00-465-1589	97403	13213E9243	DRAIN COCK	EA	1
17-9	8	PAOZZ	5305-00-071-2069	96906	MS90725-113	SCREW, CAP, HEX HEAD	EA	6
17-9	9	PAOZZ		80205	NAS1070-816	WASHER, FLAT	EA	12
17-9	10	PAOZZ	5310-00-225-6993	96906	MS51922-33	NUT, SELF-LOCKING	EA	6
17-9	11	PAFZZ		97403	13227E5846-3	ISOLATOR, VIBRATION	EA	1
17-9		MDOFF		97403	13227E5853	TANK ASSEMBLY, FUEL; MANUFACTURE FROM:	EA	1
17-9	12	PAFZZ		97403	13227E5886	SENSOR, FUEL-LEVEL	EA	1
17-9	13	XDFZZ		97403	13227E5854	TANK, FUEL	EA	1
17-9	14	PAFZZ		81343	070102-8-8	CONNECTOR	EA	1
17-9	15	PAFZZ	6680-01-130-3230	97403	13220E0663	GAGE, FUEL-LEVEL	EA	1
17-9	16	PAFZZ	5330-01-137-3172	97403	13222E6988	GASKET, FILLER NECK	EA	1
17-9	17	PAFZZ	2910-00-893-2592	96906	MS35644-1	NECK, FILLER	EA	1
17-9	18	PAFZZ	5310-00-619-1148	96906	MS15795-808	WASHER, FLAT	EA	6
17-9	19	PAFZZ	5305-00-989-7434	96906	MS35207-263	SCREW, PAN HEAD	EA	6
17-9	20	PAFZZ	2110-00-459-8447	96906	MS53075-1	CAP, NONVENTED	EA	1
17-9	21	PAFZZ	2910-00-725-9138	96906	MS90908-1	FILLER TUBE	EA	1
17-9	22	PAFZZ		81343	070102-8-6	CONNECTOR, 1/2-IN. TUBE X 3/8-IN. PIPE	EA	1

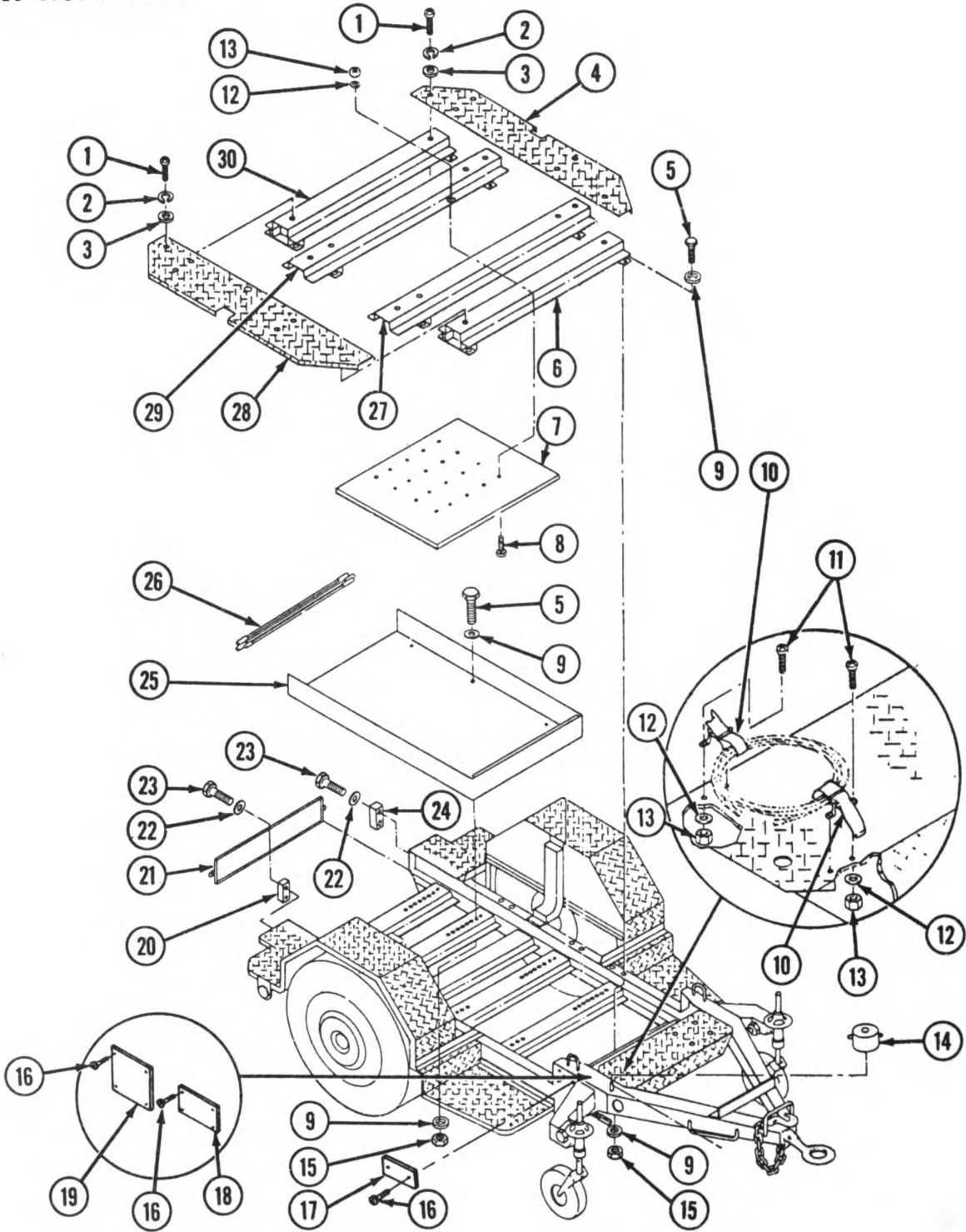


Figure 17-10. PU789/M Enhanced Trailer Assembly
(Sheet 1 of 3)

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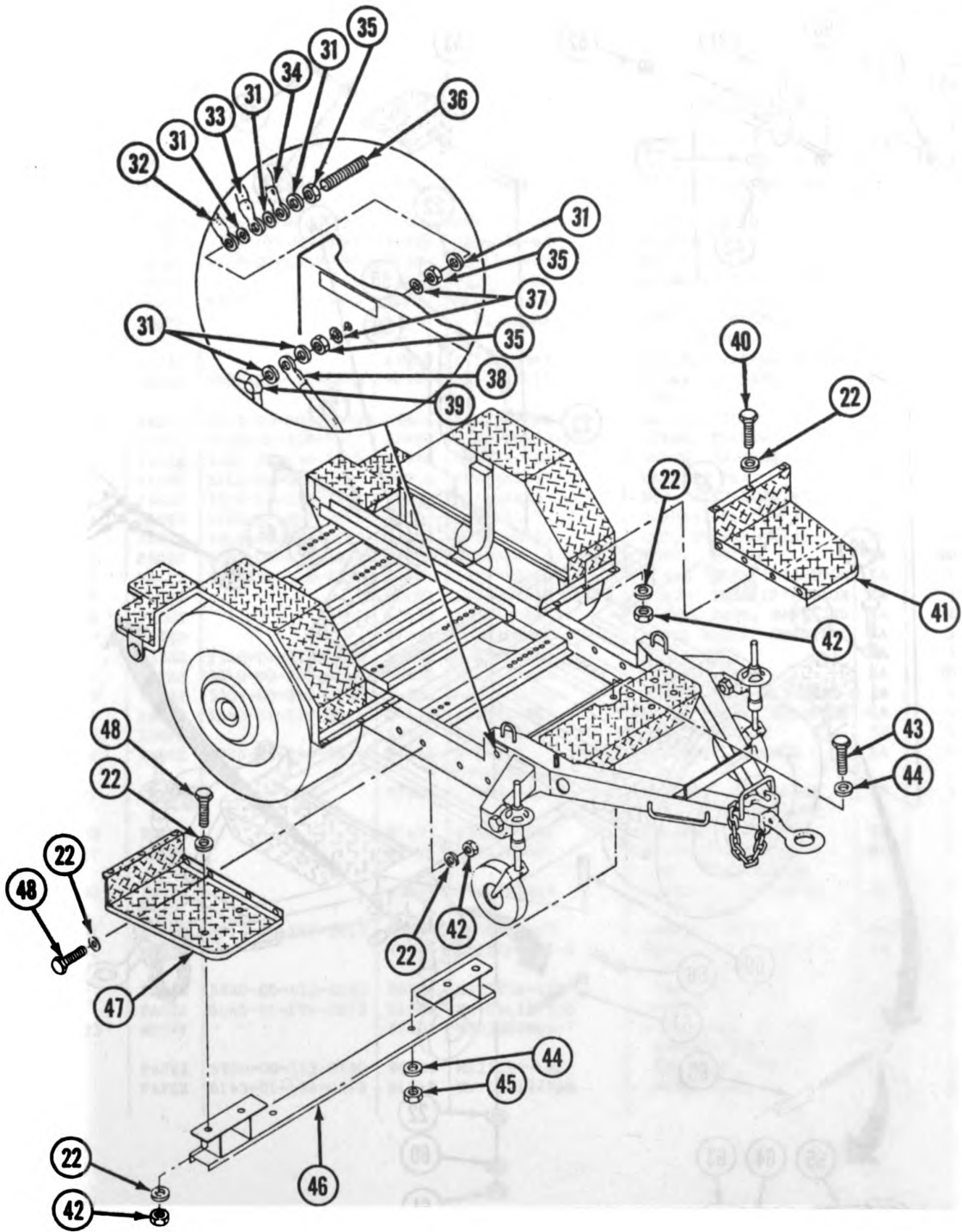


Figure 17-10. PU789/M Enhanced Trailer Assembly
(Sheet 2 of 3)

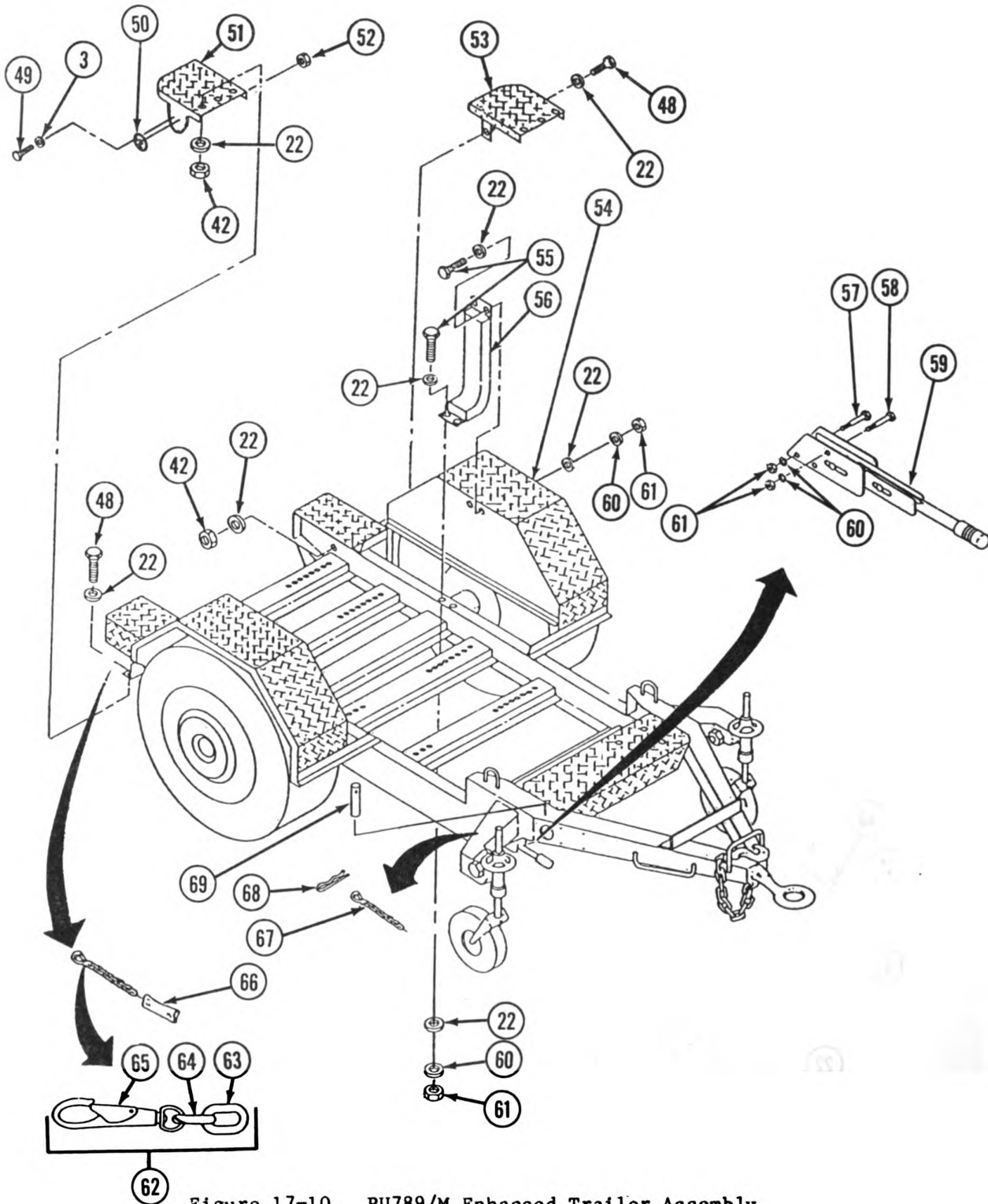


Figure 17-10. PU789/M Enhanced Trailer Assembly
(Sheet 3 of 3)

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG. NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
17-10	1	PAOZZ	5305-00-988-1725	96906	MS35206-281	SCREW, RD HD	EA	12
17-10	2	PAOZZ	5310-00-582-5965	96906	MS35338-44	WASHER, LOCK	EA	12
17-10	3	PAOZZ	5310-00-809-4058	96906	MS27183-10	WASHER, FLAT	EA	16
17-10	4	XDOZZ		97403	13227E5865	WALKWAY, ROADSIDE	EA	1
17-10	5	PAFZZ	5305-00-071-2069	96906	MS90725-113	SCREW, CAP, HEX HEAD	EA	24
17-10	6	XDFFF		97403	13227E5861	SUPPORT, GENERATOR SET, FRONT	EA	1
17-10	7	XDFZZ		97403	13227E5849	COVER, STORAGE TRAY	EA	1
17-10	8	PAFZZ	5305-00-993-1848	96906	MS35207-265	SCREW, MACHINE, PAN HEAD	EA	20
17-10	9	PAFZZ	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT	EA	44
17-10	10	PAOZZ	5340-01-228-5831	97403	13220E0670-10	STRAP, TIEDOWN	EA	2
17-10	11	PAOZZ	5305-00-984-7342	96906	MS35191-274	SCREW, MACHINE	EA	4
17-10	12	PAOZZ	5310-00-014-5850	96906	MS27183-42	WASHER, FLAT	EA	24
17-10	13	PAOZZ	5310-00-879-5797	96906	MS21044N3	NUT, SELF-LOCKING	EA	18
17-10	14	PAOZZ	5120-01-013-1676	45225	P74-144	HAMMER, SLIDE	EA	1
17-10	15	PAFZZ	5310-00-225-6993	96906	MS51922-33	NUT, SELF-LOCKING	EA	12
17-10	16	PAOZZ	5305-00-253-5612	96906	MS21318-15	SCREW, DRIVE	EA	10
17-10	17	PAOZZ	9905-01-179-7336	97403	13217E2005	PLATE, IDENTIFICATION	EA	1
17-10	18	PAOZZ		97403	13227E5889	PLATE, IDENTIFICATION	EA	1
17-10	19	PAOZZ		97403	13227E5845	PLATE, DATA, HANDLING	EA	1
17-10	20	PAOZZ		97403	13227E5884	HINGE BLOCK, CURBSIDE	EA	1
17-10	21	PAOZZ	2510-01-228-0219	97403	13227E5866	TAILGATE	EA	1
17-10	22	PAFZZ	5310-00-080-6004	96906	MS27183-14	WASHER, FLAT	EA	78
17-10	23	PAOZZ	5305-00-269-3206	96906	MS90725-55	SCREW, CAP, HEX HEAD	EA	4
17-10	24	PAOZZ	5340-01-228-0218	97403	13227E5885	HINGE BLOCK, ROADSIDE	EA	1
17-10	25	XDOFF		97403	13227E5867	TRAY, STORAGE	EA	1
17-10	26	PAOZZ	5975-00-296-5324	81348	W-R-550	ROD ASSY, GROUND	EA	2
17-10	27	XDFFF		97403	TYPEIII CLB 13227E5862	SUPPORT, GENERATOR SET, MIDDLE-FRONT	EA	1
17-10	28	XDOZZ		97403	13227E5864	WALKWAY, CURBSIDE	EA	1
17-10	29	XDFFF		97403	13227E5880	SUPPORT, GENERATOR SET, MIDDLE-REAR	EA	1
17-10	30	XDFFF		97403	13227E5863	SUPPORT, GENERATOR SET, REAR	EA	1
17-10	31	PAOZZ	5310-00-187-2413	88044	AN961-616T	WASHER, FLAT	EA	6
17-10	32	MFOZZ		97403	13220E0697-4	WIRE ASSY, GROUND; MANUFACTURE FROM:	EA	1
17-10		PAOZZ	5940-00-113-8190	96906	MS25036-122	TERMINAL, LUG	EA	1
17-10		PAOZZ	6145-01-196-0273	81349	HW-C6(127)JO	WIRE, SIZE 6	EA	1
17-10	33	MFOFF		97403	13220E0669-7	WIRE ASSY, GROUND; MANUFACTURE FROM:	EA	1
17-10		PAFZZ	5940-00-113-8190	96906	MS25036-122	TERMINAL, LUG	EA	2
17-10		PAFZZ	6145-01-196-0273	81349	HW-C6(127)JO	WIRE, SIZE 6	EA	1

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG. NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
17-10	34	MFOFF		97403	13220E0669-8	WIRE ASSY, GROUND; MANUFACTURE FROM:	EA	1
17-10		PAFZZ	5940-00-113-8190	96906	MS25036-122	TERMINAL LUG	EA	2
17-10		PAFZZ	6145-01-196-0273	81349	HW-C6(127)JO	WIRE, SIZE 6	EA	1
17-10	35	PAFZZ	5310-00-410-3023	96906	MS35649-2386	NUT, PLAIN	EA	3
17-10	36	PAFZZ	5307-00-227-1741	97403	13214E1223	STUD	EA	1
17-10	37	PAFZZ	5310-00-022-8847	96906	MS35333-110	WASHER, LOCK	EA	2
17-10	38	MFOFF		97403	13220E0697-3	WIRE ASSY, GROUND; MANUFACTURE FROM:	EA	1
17-10		PAFZZ	5940-00-113-8190	96906	MS25036-122	TERMINAL, LUG	EA	1
17-10		PAFZZ	6145-01-196-0273	81349	HW-C6(127)JO	WIRE, SIZE 6	EA	1
17-10	39	PAFZZ	5310-01-078-5996	96906	MS35425-75	NUT, WING	EA	1
17-10		MDODD	2330-00-542-2831	97403	13227E5851	TRAILER ASSY; MANUFACTURE FROM:	EA	1
17-10	40	PAOZZ	5305-00-269-3213	96906	MS90725-62	SCREW, CAP, HEX HEAD	EA	6
17-10	41	XDOFF		97403	13221E4791	STEP, FRONT, ROADSIDE	EA	1
17-10	42	PAFZZ	5310-00-087-4652	96906	MS51922-17	NUT, SELF-LOCKING	EA	36
17-10	43	PAFZZ	5305-00-782-9495	96906	MS90725-111	SCREW, CAP, HEX HEAD	EA	2
17-10	44	PAFZZ	5310-00-809-5998	96906	MS27183-18	WASHER, FLAT	EA	4
17-10	45	PAFZZ	5310-00-225-6993	96906	MS51922-33	NUT, SELF-LOCKING	EA	2
17-10	46	XDFZZ		97403	13222E9718	SUPPORT	EA	1
17-10	47	XDOFF		97403	13221E4790	STEP, FRONT, CURBSIDE	EA	1
17-10	48	PAFZZ	5305-00-006-6574	96906	MS90725-60	SCREW, CAP, HEX HEAD	EA	24
17-10	49	PAOZZ	5305-00-068-0501	96906	MS90725-5	SCREW CAP, HEX HEAD	EA	4
17-10	50	PAOZZ	9905-00-202-3639	96906	MS35387-2	REFLECTOR, AMBER	EA	2
17-10	51	XDOFF		97403	13221E4793	STEP, REAR, CURBSIDE	EA	1
17-10	52	PAOZZ	5310-00-088-1251	96906	MS51922-1	NUT, SELF-LOCKING	EA	4
17-10	53	XDOFF		97403	13221E4794	STEP, REAR, ROADSIDE	EA	1
17-10	54	XDFDD		97403	13227E5852	CHASSIS	EA	1
17-10	55	PAFZZ	5305-00-269-3214	96906	MS90725-64	SCREW, CAP, HEX HEAD	EA	8
17-10	56	XDFZZ		97403	13222E9716	BRACKET, FENDER	EA	2
17-10	57	PAOZZ	5305-00-071-1787	96906	MS90725-68	SCREW, CAP, HEX HEAD	EA	2
17-10	58	PAOZZ	5305-00-269-3217	96906	MS90725-67	SCREW, CAP, HEX HEAD	EA	4
17-10	59	XDFZZ		19207	11625410	LEVER, PARKING	EA	2
17-10	60	PAOZZ	5310-00-004-5033	96906	MS35338-46	WASHER, LOCK	EA	14
17-10	61	PAOZZ	5310-00-732-0558	96906	MS51967-8	NUT, PLAIN	EA	14
17-10	62	PAOZZ	4010-01-137-6972	97403	13225E8676-2	HOOK AND CHAIN ASSY	EA	2
17-10	63	XDOZZ		81348	RR-C-271 TYPE I GRC, CL4	CHAIN, 9 LINKS	EA	1
17-10	64	PAOZZ		81348	RR-C-271 TYPE III	LINK, REPAIR	EA	1
17-10	65	PAOZZ		97403	13225E8668-5	SNAP, SWIVEL EYE	EA	1
17-10	66	PAOZZ		97403	13226E1867-5	SLEEVE, CHAIN	EA	2
17-10	67	PAOZZ	4010-00-165-5605	81348	RR-C-271 TYPE I, GRC, CL 5, STYLE 1	CHAIN, TWIST LINK	EA	1
17-10	68	PAOZZ	5315-01-098-6455	88044	AN415-7	PIN, LOCK	EA	1
17-10	69	PAOZZ	5915-00-222-5040	81346	ASTM A36	BAR, .625 OD, STEEL	EA	1

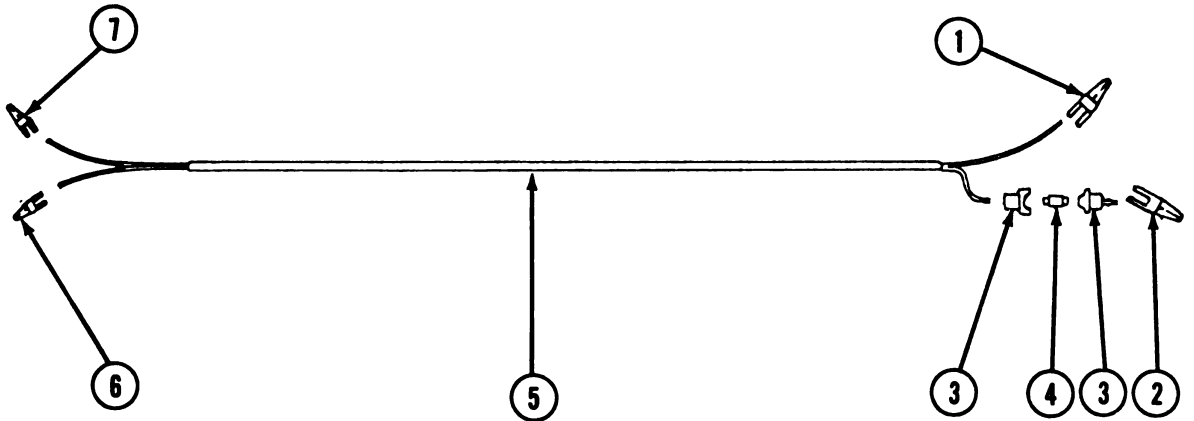
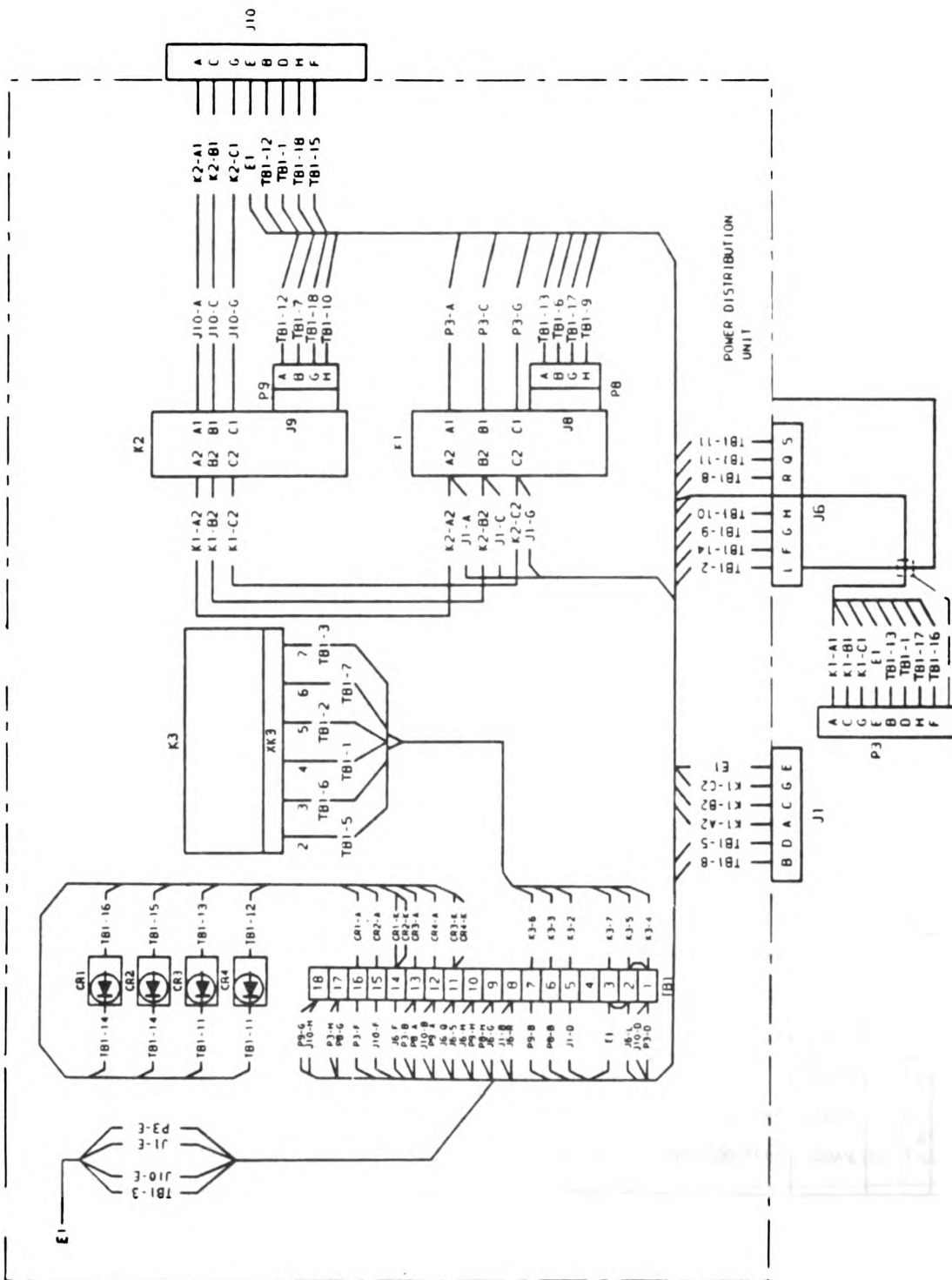


Figure 17-11. Power Source Jumper Cable

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG. NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
17-11	1	PAOZZ	5999-00-615-1718	76545	63CBLK	CLIP, ELECTRICAL (BLACK)	EA	1
17-11	2	PAOZZ	5999-00-721-0350	76545	63CRED	CLIP, ELECTRICAL (RED)	EA	1
17-11	3	PAOZZ	5920-00-892-9395	81349	PHN31G1	CARTRIDGE, FUSE	EA	1
17-11	4	PAOZZ	5920-00-270-5179	14933	L01323	FUSE, 5A SLOBLO	EA	1
17-11	5	PAOZZ		81349	CO-02 LLF (2/16)0230	CABLE, 2-CONDUCTOR 12'L	EA	V
17-11	6	PAOZZ	5999-00-220-9767	76545	48B	CLIP, ELECTRICAL TEST (RED)	EA	1
17-11	7	PAOZZ	5999-00-186-8935	V1257	2711	CLIP, ELECTRICAL TEST (BLACK)	EA	1

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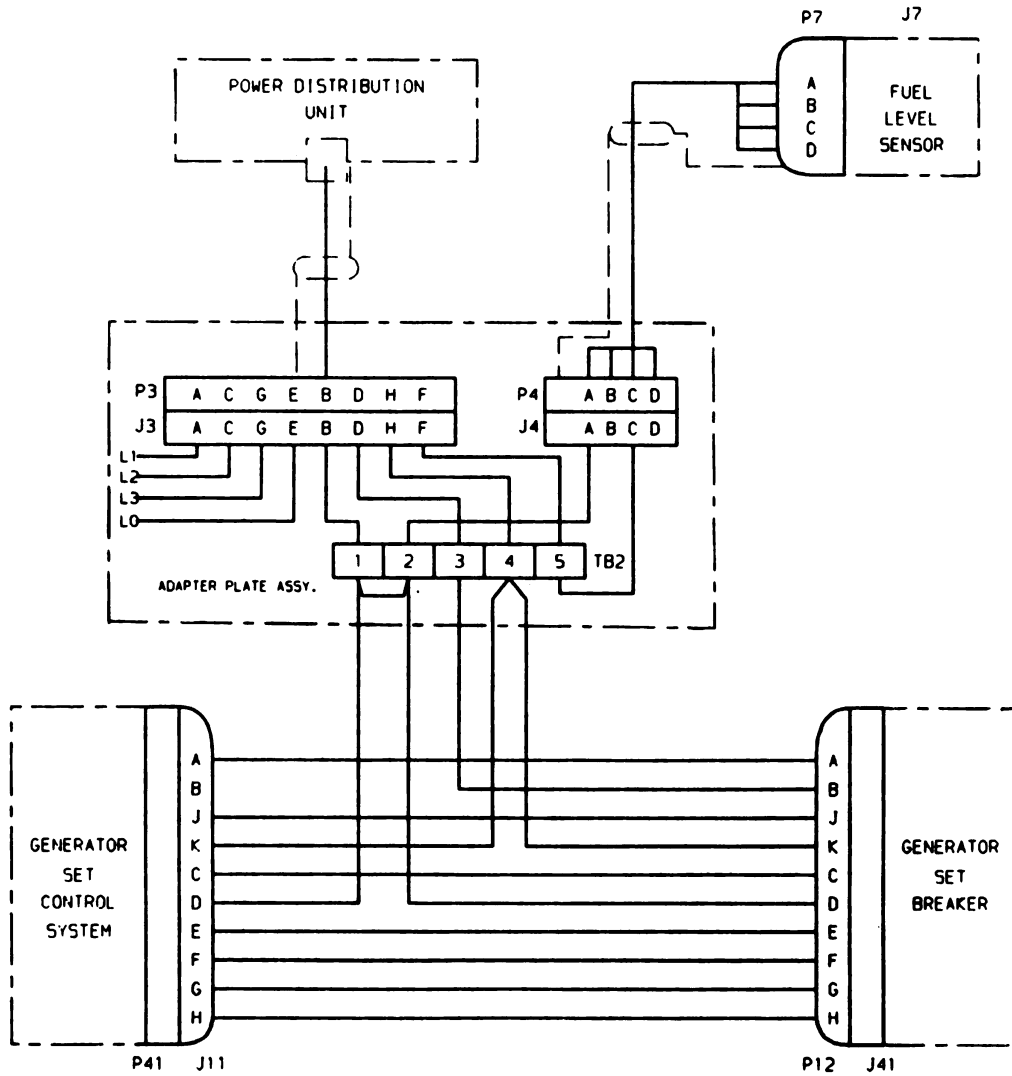
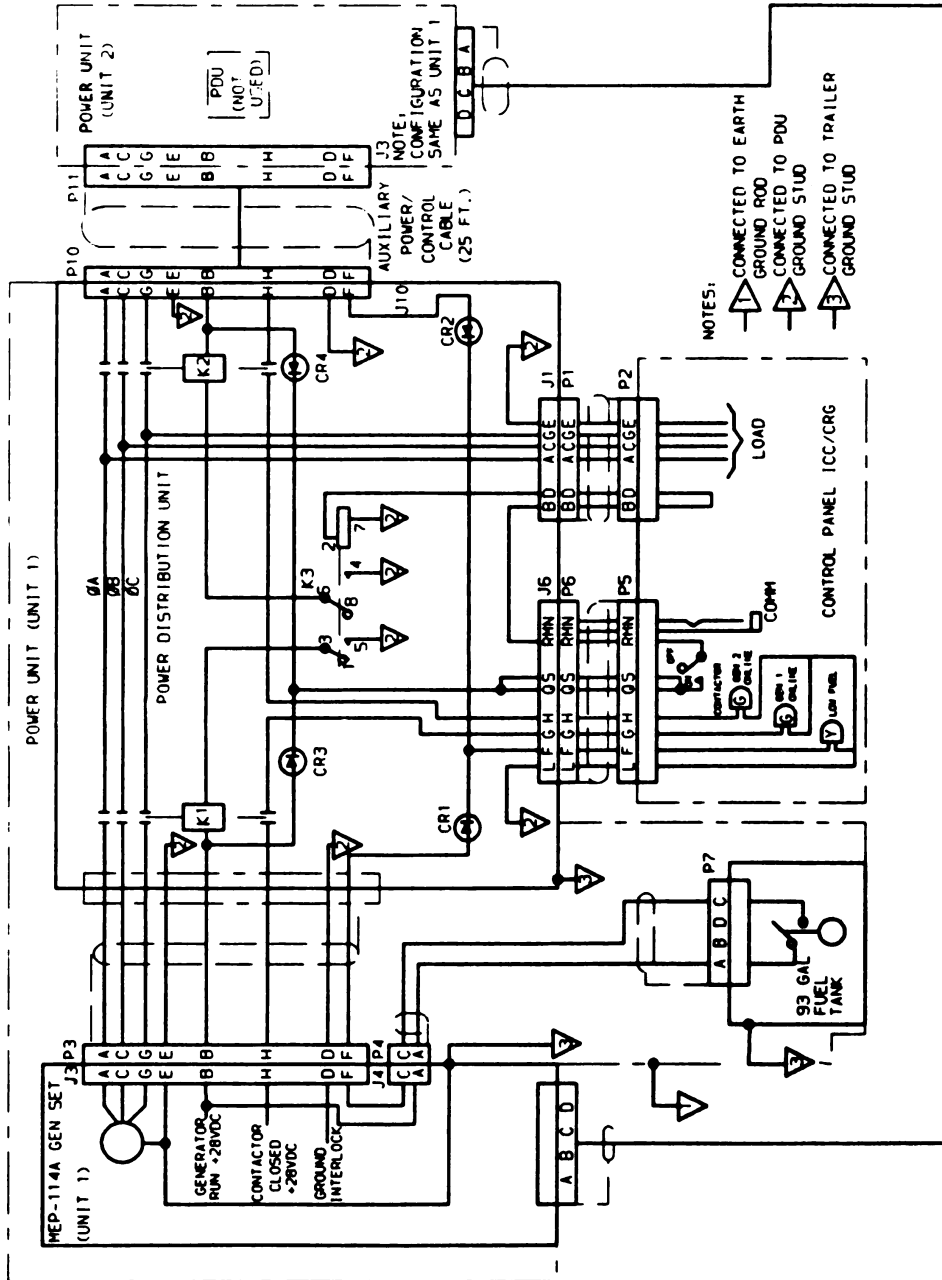


Figure 17-12. PU789/M Wiring Diagram
(Sheet 2 of 2)

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Figure 17-12. PU789/M Wiring Diagram
(Sheet 1 of 2)



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Figure 17-13. PU789/M Schematic Diagram

APPENDIX A

REFERENCES

- DA Pam 738-750 The Army Maintenance Management System (TAMMS)
- TM 5-6115-457-12 Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical, Skid Mtd.
- TM 5-6115-457-24P Organizational, Intermediate (Field) (DS and GS) and Depot Maintenance Repair Parts and Special Tools List: Generator Set, Diesel Engine Driven, Tactical, Skid Mtd.
- TM 5-6115-457-34 Intermediate (Field) (Direct and General Support) and Depot Level Maintenance: Generator Set, Diesel Engine Driven, Tactical, Skid Mtd.
- TM 5-6115-464-12 Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.
- TM 5-6115-464-24P Organizational, Intermediate (Field) (Direct Support and General Support) and Depot Maintenance Repair Parts and Special Tools List: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.
- TM 5-6115-464-34 Intermediate (Field) Direct and General Support and Depot Level Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.
- TM 5-6115-465-12 Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.
- TM 5-6115-465-24P Organizational, Intermediate (Field) (DS and GS) and Depot Maintenance Repair Parts and Special Tool List: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.
- TM 5-6115-465-34 Intermediate (Field) (Direct and General Support) and Depot Level Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.
- TM 5-6115-545-12 Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.
- TM 5-6115-545-24P Organizational, Direct Support and General Support and Depot Maintenance Repair Parts and Special Tool Lists: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.

**TM 5-6115-594-14&P
TO 35C2-3-1-461**

TM 5-6115-545-34

Intermediate (Field) (Direct and General Support) and Depot Maintenance Manual Generator Set, Diesel Engine Driven, Tactical Skid Mtd.

TM 5-6115-584-12

Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.

TM 5-6115-584-24P

Organizational, Intermediate (Field) (Direct and General Support) and Depot Level Maintenance Repair Parts and Special Tools List: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.

TM 5-6115-584-34

Intermediate (Field) (Direct and General Support) and Depot Level Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.

TM 5-6115-585-12

Operator and Organizational Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.

TM 5-6115-585-24P

Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools): Generator Set, Diesel Engine Driven, Tactical Skid Mtd.

TM 5-6115-585-34

Intermediate (Field) (Direct and General Support) and Depot Level Maintenance Manual: Generator Set, Diesel Engine Driven, Tactical Skid Mtd.

TM 9-2330-205-14

Operator's Organizational Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List): Chassis, Trailer, Generator, 2-1/2 Ton, 2-Wheel, M200A1 (2330-331-2307)

TM 9-2330-247-14

Operator's Organizational, DS and GS Maintenance Manual (Including Repair Parts and Special Tools List) For Chassis, Trailer: General Purpose, 3-1/2 Ton, 2-Wheel, M353 (2330-542-2831)

TM 9-2330-202-14P

Operator, Organizational, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List): Chassis, Trailer, 3/4 Ton, 2-Wheel, DOD Model M116A2

APPENDIX B

COMPONENTS OF END ITEM LIST

Section I. INTRODUCTION

B-1. Scope. This Appendix B lists integral components of and Basic Issue Items (BII(s) for the following generator sets or power plants to help you inventory items required for safe and efficient operation. (Refer to table B-1).

- Generator Set PU405A/M
- Generator Set PU406B/M
- Generator Set PU732/M
- Generator Set PU760/M
- Generator Set PU707A/M
- Generator Set PU495A/G
- Generator Set PU495B/G
- Power Plant AN/MJQ-10A
- Power Plant AN/MJQ-15
- Generator Set PU650B/G
- Power Plant AN/MJQ-12A
- Generator Set PU751/M
- Power Plant AN/MJQ-16
- Generator Set PU753/M
- Power Plant AN/MJQ-18

B-2. General. This component of end item list is divided into the following sections:

a. Section II. Integral components of the end item list is not applicable to the generator set or power plant.

b. Section III. Basic Issue Items. These are the minimum essential items required to place the generator set or power plant in operation, to operate it and to perform emergency repairs. They must accompany the generator set or power plant during operation and whenever it is transferred between accountable officers. The illustrations will assist you with hard-to-identify items. This manual is your authority to requisition replacement BII based on TOE/MTOE authorization of the end item.

B-3. Explanation of Columns.

a. Illustrations. This column is divided as follows:

(1) Figure Number. Indicates the figure number of the illustrations on which the item is shown.

(2) Item Number. The number used to identify item called out in the illustration.

b. National Stock Number (NSN). Indicates the NSN assigned to the item and which will be used for requisitioning.

c. Part Number. Indicates the primary number used by the manufacturer, which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an end item of range of items.

d. Description. Indicates the Federal Item Name and minimum description to identify the item.

e. Location. The physical location of each item listed is given in this column. The lists are designed to inventory all items in one area of the major item before moving on to an adjacent area.

f. Usable on Code. "Usable On" codes are included to help you identify which component items are used on the different models. Items in this list are used on all models.

g. Quantity Required (Qty Rqd). This column lists the quantity of each item required for a complete major item.

h. Quantity. This column is left blank for use during an inventory. Under the "Rcv'd" column, list the quantity you actually receive on your major item. The date columns are for your use when you inventory the major item at a later date: such as for shipment to another site.

Section II. INTEGRAL COMPONENTS OF END ITEM
(Not Applicable)

Section III. BASIC ISSUE ITEMS

Table B-1 Basic Issue Items (Cont.)

(1) Illustration		(2) National Stock Number	(3) Part No. & FSCM	(4) Description	(5) Location	(6) Usable on Code	(7) Qty Reqd	(8) Quantity			
(a) Figure No.	(b) Item No.							Rev'd	Date	Date	Date

Generator Set, PU 405A/M (Chapter 2)

2-2	6	5975-00-878-3791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Access- sory Box		2				
2-2	7	7240-00-177-6154	MIL-S-1285 (81349)	Spout, Can, Flexible	Stored in Access- sory Box		1				
2-2	8	2910-00-066-1235	13211E7541 (97403)	Adapter Assembly, Fuel Drum	Stored in Access- sory Box		1				
2-2	22	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Access- sory Box		1				
2-2	12	4210-00-270-4512	O-E-910 (81349)	Extinguisher Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
		5120-01-013-1676	13226E7741 (97403)	Hammer, Slide 36" long, 16" wide			1				

Generator Set, PU 406B/M (Chapter 3)

3-2	6	5975-00-878-3791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Access- sory Box		2				
3-2	7	7240-00-177-6154	MIL-S-1285 (81349)	Spout, Can, Flexible	Stored in Access- sory Box		1				
3-2	8	2910-00-066-1235	13211E7541 (97403)	Adapter Assembly, Fuel Drum	Stored in Access- sory Box		1				
3-2	22	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Head Engineers, 8 lb (3.6 kg)	Stored in Access- sory Box		1				
3-2	12	4210-00-270-4512	O-E-910 (81349)	Extinguisher Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
		5120-01-013-1676	13226E7741 (97403)	Hammer, Slide 36" long, 16" wide			1				

Table B-1 Basic Issue Items (Cont.)

(1) Illustration		(2)	(3)	(4)	(5)	(6)	(7)	(8) Quantity			
(a) Figure No.	(b) Item No.	National Stock Number	Part No. & FSCM	Description	Location	Usable on Code	Qty Reqd	Rev'd	Date	Date	Date

Generator Set, PU 732/M (Chapter 4)

4-2	6	5975-00-878-3791	MIL-R-116461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Access- sory Box		2				
4-2	7	7240-00-177-6154	MIL-S-1285 (83149)	Spout, Can, Flexible	Stored in Access- sory Box		1				
4-2	8	2910-00-066-1235	13211E7541 (97403)	Adapter Assembly, Fuel Drum	Stored in Access- sory Box		1				
4-2	22	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Access- sory Box		1				
4-2	12	4210-00-270-4512	O-E-910 (81349)	Extinguisher Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
		5120-01-013-1676	13226E7741 (97403)	Hammer, Slide, 36" long, 16" wide			1				

Generator Set, PU 760/M (Chapter 5)

5-2	6	5975-00-878-3791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Access- sory Box		2				
5-2	7	7240-00-177-6154	MIL-S-1285 (81349)	Spout, Can, Flexible	Stored in Access- sory Box		1				
5-2	8	2910-00-066-1235	13211E7541 (97403)	Adapter Assembly, Fuel Drum	Stored in Access- sory Box		1				
5-2	22	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Access- sory Box		1				
5-2	12	4210-00-270-4512	O-E-910 (81349)	Extinguisher, Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
		5120-01-013-1676	13226E7741 (97403)	Hammer, Slide, 36" long, 16" wide			1				

Table B-1 Basic Issue Items (Cont.)

(1) Illustration		(2)	(3)	(4)	(5)	(6)	(7)	(8) Quantity			
(a) Figure No.	(b) Item No.	National Stock Number	Part No. & FSCM	Description	Location	Usable on Code	Qty Reqd	Rec'd	Date	Date	Date

Generator Set, PU 707A/M (Chapter 6)

6-2	6	5975-00-878-3791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Access- ory Box		2				
6-2	7	2910-00-066-1235	13211E7541 (97403)	Adapter Assembly, Fuel Drum	Stored in Access- ory Box		1				
6-2	21	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Access- ory Box		1				
6-2	11	4210-00-270-4512	O-E-910 (81349)	Extinguisher, Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
		5120-01-013-1676	13226E7741 (97403)	Hammer, Slide, 36" long, 16" wide			1				

Generator Set PU 495A/G (Chapter 7)

7-2	34	5975-00-878-3791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Access- ory Box		2				
7-2	35	7240-00-177-6154	MIL-S-1285 (81349)	Spout, Can, Flexible	Stored in Access- ory Box		1				
7-2	36	2910-00-066-1235	13211E7541 (97403)	Adapter Assembly, Fuel Drum	Stored in Access- ory Box		1				
7-2	2	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb. (3.6 kg)	Stored in Access- ory Box		1				
7-2	16	4210-00-270-4512	O-E-910 (81349)	Extinguisher Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
		5120-01-013-1676	13226E7741 (97403)	Hammer, Slide, 36" long, 16" wide			1				

Table B-1 Basic Issue Items (Cont.)

(1) Illustration		(2)	(3)	(4)	(5)	(6)	(7)	(8) Quantity			
(a) Figure No.	(b) Item No.	National Stock Number	Part No. & FSCM	Description	Location	Usable on Code	Qty Reqd	Rev'd	Date	Date	Date
Power Plant, AN/MJQ-10A (Chapter 8)											
8-2	6	5975-00-878-3791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Access- ory Box		2				
8-2	7	7240-00-177-6164	MIL-S-1285 (81349)	Spout, Can, Flexible	Stored in Access- ory Box		1				
8-2	8	2910-00-006-1235	13211E7541 (97403)	Adapter Assembly, Fuel Drum	Stored in Access- ory Box		1				
8-2	22	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Access- ory Box		1				
8-2	12	4210-00-270-4512	O-E-910 (81349)	Extinguisher Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
8-1	4		13220E6337 (97403)	Switchbox Assembly	On Fender of Unit B		1				
8-1	2		13214E1433-2 (97403)	Cable Assembly	On Cable Reel		1				
8-1	3		13214E1433-4 (97403)	Cable Assembly	On Cable Reel		1				
8-1	5		13214E1476 (97403)	Reel Cable	On Fender of each Trailer		2				
8-1	1	6115-00-394-9676	PU 406B/M (97403)	Power Unit			2				
		5120-01-018-1676	13226E7741 (97403)	Hammer, Slide, 36" long, 16" wide			1				

Table B-1 Basic Issue Items (Cont.)

(1) Illustration		(2) National Stock Number	(3) Part No. & FSCM	(4) Description	(5) Location	(6) Usable on Code	(7) Qty Reqd	(8) Quantity			
(a) Figure No.	(b) Item No.							Rev'd	Date	Date	Date

Power Plant, AN/MJQ-15A (Chapter 9)

9-2	6	5975-00-878-3791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional 9 ft (2.7 m) long	Stored in Access- ory Box		2				
9-2	7	7240-00-177-6154	MIL-S-1285 (81349)	Spout, Can, Flexible	Stored in Access- ory Box		1				
9-2	8	2910-00-066-1235	13211E7541 (97403)	Adapter Assembly, Fuel Drum	Stored in Access- ory Box		1				
9-2	22	5120-00-251-4489	GCG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Access- ory Box		1				
9-2	12	4210-00-270-4512	O-E-910 (81349)	Extinguisher Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
9-1	3		13220E6400 (97403)	Power Transfer Box Assembly			1				
9-1	2		13220E6427 (97403)	Cable Assembly			2				
9-1	1	6115-00-260-3062	PU732/M (97403)	Power Unit			2				
		5120-01-013-1676	13226E7741 (97403)	Hammer, Slide, 36" long, 16" wide			1				

Table B-1 Basic Issue Items (Cont.)

(1) Illustration		(2) National Stock Number	(3) Part No. & FSCM	(4) Description	(5) Location	(6) Usable on Code	(7) Qty Reqd	(8) Quantity			
(a) Figure No.	(b) Item No.							Rev'd	Date	Date	Date

Generator Set, PU 650B/G (Chapter 10)

10-2	6	5975-00-878-3791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Accessory Box		2				
10-2	7	2910-00-066-1235	18211E7541 (97403)	Adapter Assembly, Fuel Drum	Stored in Accessory Box		1				
10-2	21	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Accessory Box		1				
10-2	11	4210-00-270-4512	O-E-910 (81349)	Extinguisher, Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
		5120-01-013-1676	18226E7741 (97403)	Hammer, Slide, 36" long, 16" wide			1				

Power Plant, AN/MJQ-12A (Chapter 11)

11-2	6	5975-00-878-3791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Accessory Box		2				
11-2	7	2910-00-066-1235	18211E7541 (97403)	Adapter Assembly, Fuel Drum	Stored in Accessory Box		1				
11-2	21	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Accessory Box		1				
11-2	11	4210-00-270-4512	O-E-910 (81349)	Extinguisher Fire, Hand, 5 lb (2, 3 kg)	Mounted on side of Trailer		1				
11-1	1		13221E7360 (97403)	Switchbox	On Fender Unit B		1				
11-1	12 & 13		13218E5110 (97403)	Cable Assembly	On Cable Reel		2				
11-1	1	6115-00-228-1622	18221E7359	Power Unit PU 650B/G			2				
		5120-01-013-1676	18226E7741 (97403)	Hammer, Slide, 36" long, 16" wide			1				

Table B-1 Basic Issue Items (Cont.)

(1) Illustration		(2) National Stock Number	(3) Part No. & FSCM	(4) Description	(5) Location	(6) Usable on Code	(7) Qty Reqd	(8) Quantity			
(a) Figure No.	(b) Item No.							Rev'd	Date	Date	Date

Generator Set, PU751/M (Chapter 12)

12-2	6	5975-00-878-3791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored on Splash Shield		2				
12-2	21	5120-00-251-4489	GGG-H-96 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored on Splash Shield		1				
12-2	11	4210-00-251-4489	MIL-E-52801 (81349)	Extinguisher Fire, Hand, 2½ lb (1.25 kg)	Mounted on Fender		1				
		5120-01-013-1676	13226E7741 (97403)	Hammer, Slide, 36" long, 16" wide			1				

Power Plant, AN/MJQ-16 (Chapter 13)

13-2	34	5975-00-878-3791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Access- ory Box		2				
13-2	2	5120-00-251-4489	GGG-H-96 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Access- ory Box		1				
13-2	16	4210-00-270-4512	O-E-910 (81349)	Extinguisher Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
		5120-01-013-1676	13226E7741 (97403)	Hammer, Slide, 36" long, 16" wide			1				

Table B-1 Basic Issue Items (Cont.)

(1) Illustration		(2) National Stock Number	(3) Part No. & FSCM	(4) Description	(5) Location	(6) Usable on Code	(7) Qty Req'd	(8) Quantity			
(a) Figure No.	(b) Item No.							Rcv'd	Date	Date	Date

Generator Set, PU 753/M (Chapter 14)

14-2	6	5975-00-878-8791	MIL-R-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Accessory Box		2				
14-2	21	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Accessory Box		1				
14-2	11	4210-00-270-4512	O-E-910 (81349)	Extinguisher Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
		5120-01-013-1676	18226E7741 (97403)	Hammer Slide 36" long, 16" wide			1				

Power Plant, AN/MJQ-18 (Chapter 15)

15-2	34	5975-00-878-8791	MIL-LR-11461 (81349)	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) long	Stored in Accessory Box		2				
15-2	2	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Accessory Box		1				
15-2	16	4210-00-270-4512	O-E-910 (81349)	Extinguisher Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
		5120-01-013-1676	18226E7741 (97403)	Hammer, Slide 36" long, 16" wide			1				

Table B-1 Basic Issue Items (Cont.)

(1) Illustration		(2) National Stock Number	(3) Part No. & FSCM	(4) Description	(5) Location	(6) Usable on Code	(7) Qty Reqd	(8) Quantity			
(a) Figure No.	(b) Item No.							Rcv'd	Date	Date	Date

POWER PLANT, AN/MJQ-25 (Chapter 16)

16-1	1		W-R-550 (81348)	Rod, Ground, Driven, Sectional, 9 ft. (2.7 m) long	Stored on ea Gen Set		2				
16-1	22	5120-00-251-4489	GGG-H-86 (81349)	Hammer, Hand, Engineers, 8 lb (3.6 kg)	Stored in Acces- sory Box		1				
16-1	12	4210-00-270-4512	O-E-910 (81349)	Extinguisher Fire, Hand, 5 lb (2.3 kg)	Mounted on side of Trailer		1				
16-1	3		13226E5859 (97403)	Switch Box Assembly			1				
16-1	2		13220E6727 (97403)	Cable Assembly			2				
		5120-01-013-1676	13226E7741 (97403)	Hammer, Slide 36" long, 16" wide			1				

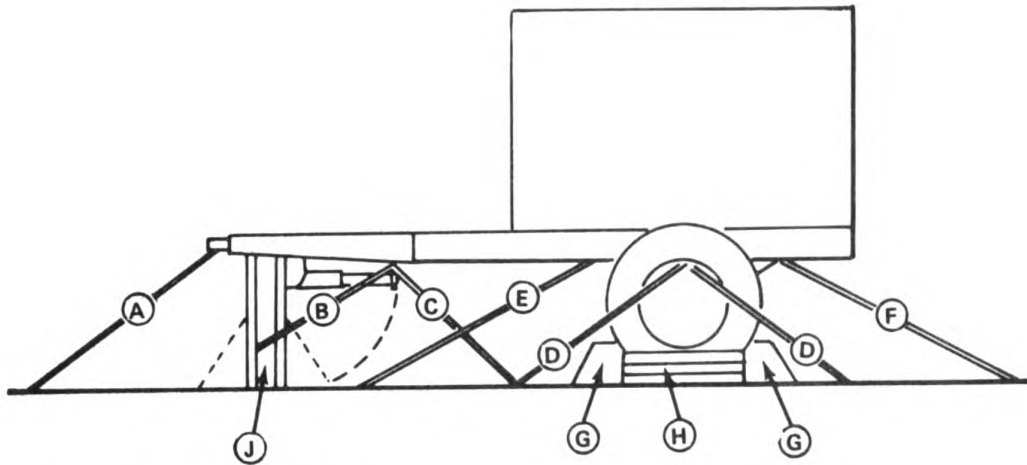
APPENDIX C

TIEDOWN PROCEDURES FOR RAILROAD SHIPMENT

C-1. General.

a. The general instructions and procedures for shipping the power units by railroad are shown on figures C-1 through C-4. Table C-1 is an explanation of the codes used in the figures of this appendix and gives a description of the material necessary.

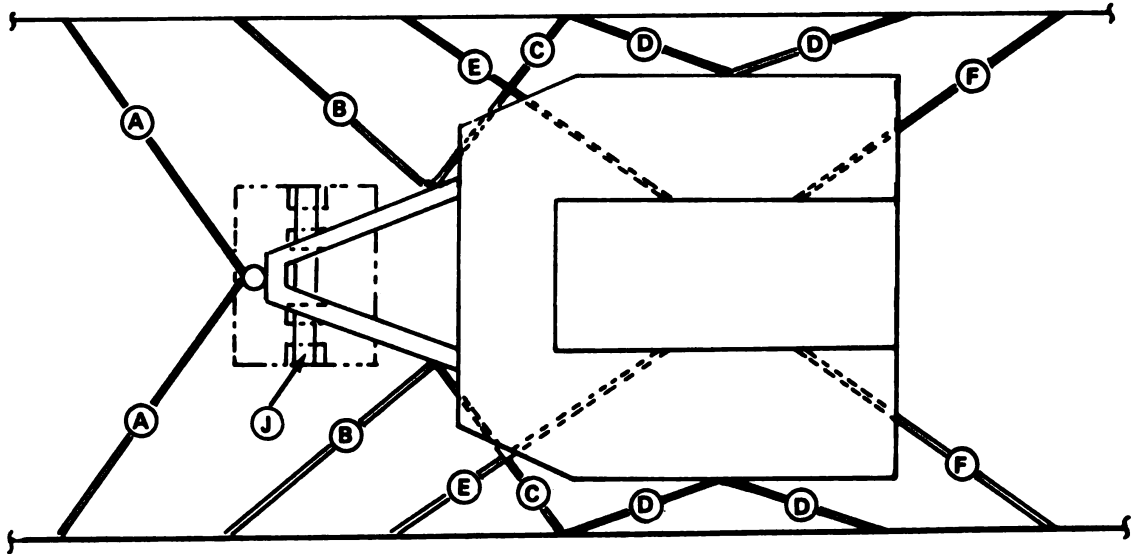
b. The AN/MJQ-25 can be transported by CH-47 Helicopter. The tarpaulin cover and bows must be removed and stored before transported by helicopter. The tarpaulin will be stored between the generator sets and secured with straps. The bows will be stored on the 1h fender and secured with straps.



NOTE: SEE CODES, TABLE C-1

TS 6115-594-14&P/C-1

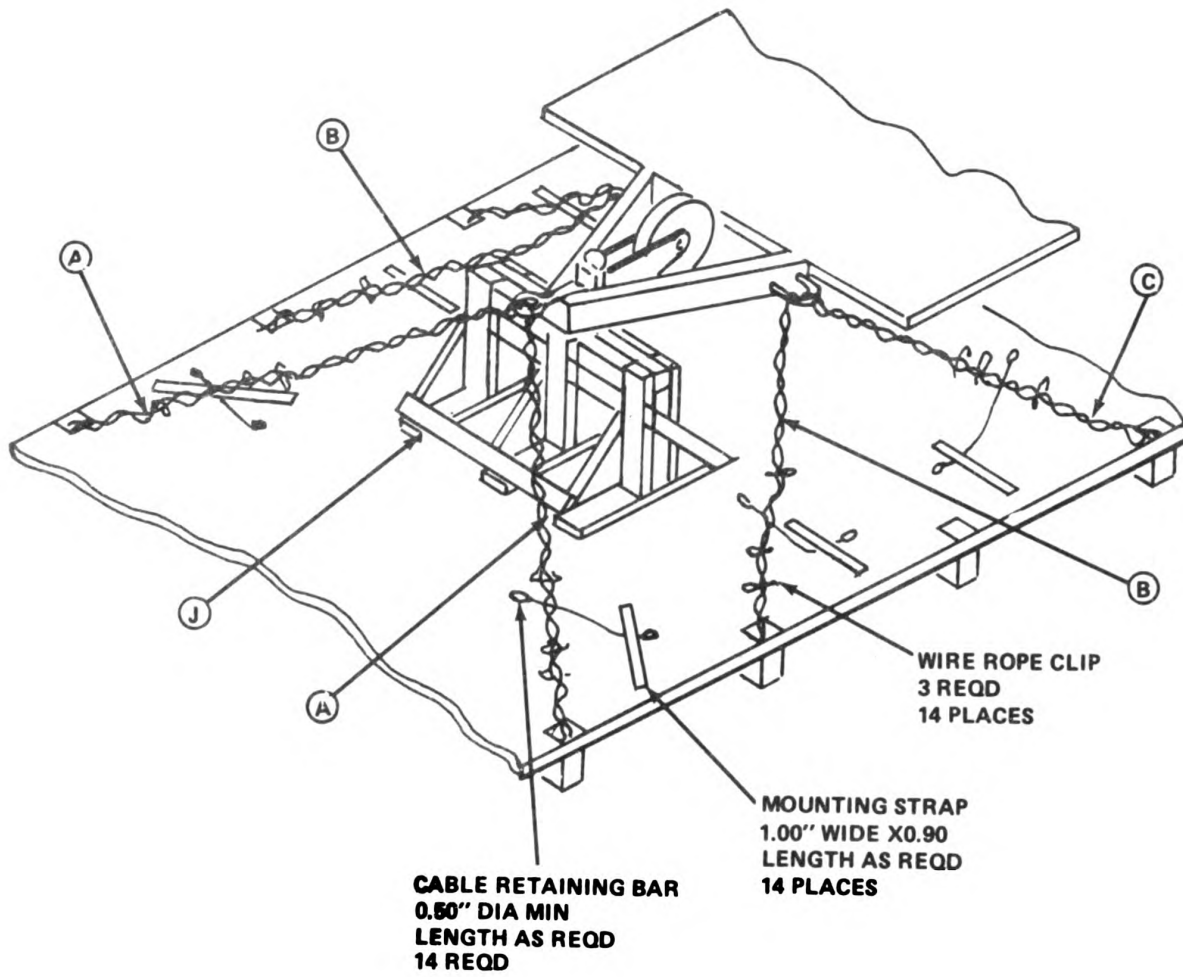
Figure C-1. Railroad Shipment Tiedowns, Side View



NOTE: SEE CODES, TABLE C-1

TS 6115-594-14&P/C-2

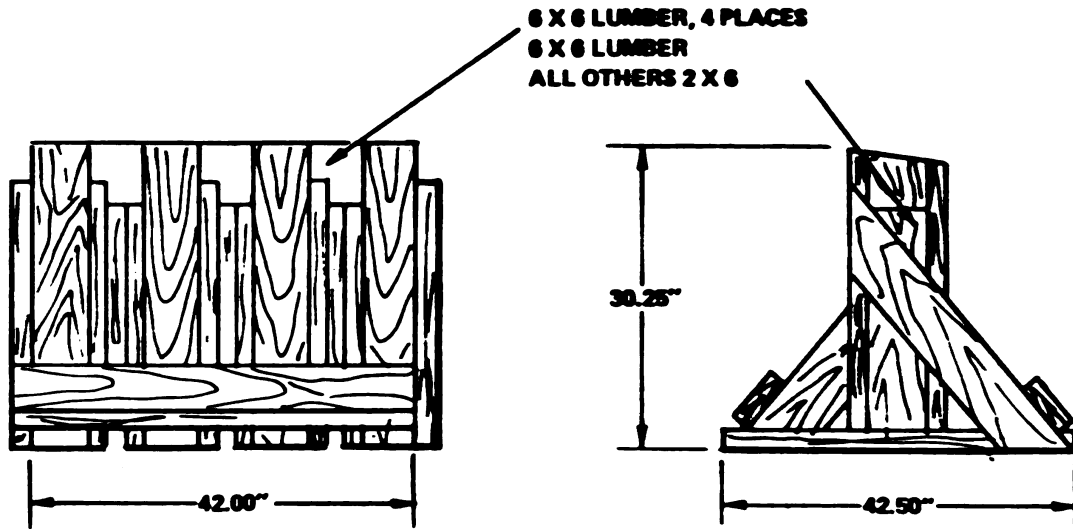
Figure C-2. Railroad Shipment Tiedowns, Top View



NOTE: SEE CODES, TABLE C-1

TS 6115-594-14&P/C-3

Figure C-3. Tie Details For Railroad Shipment



TS 6115-594-14&P/C-4

Figure C-4. Construction of Support (J) For Railroad Shipment

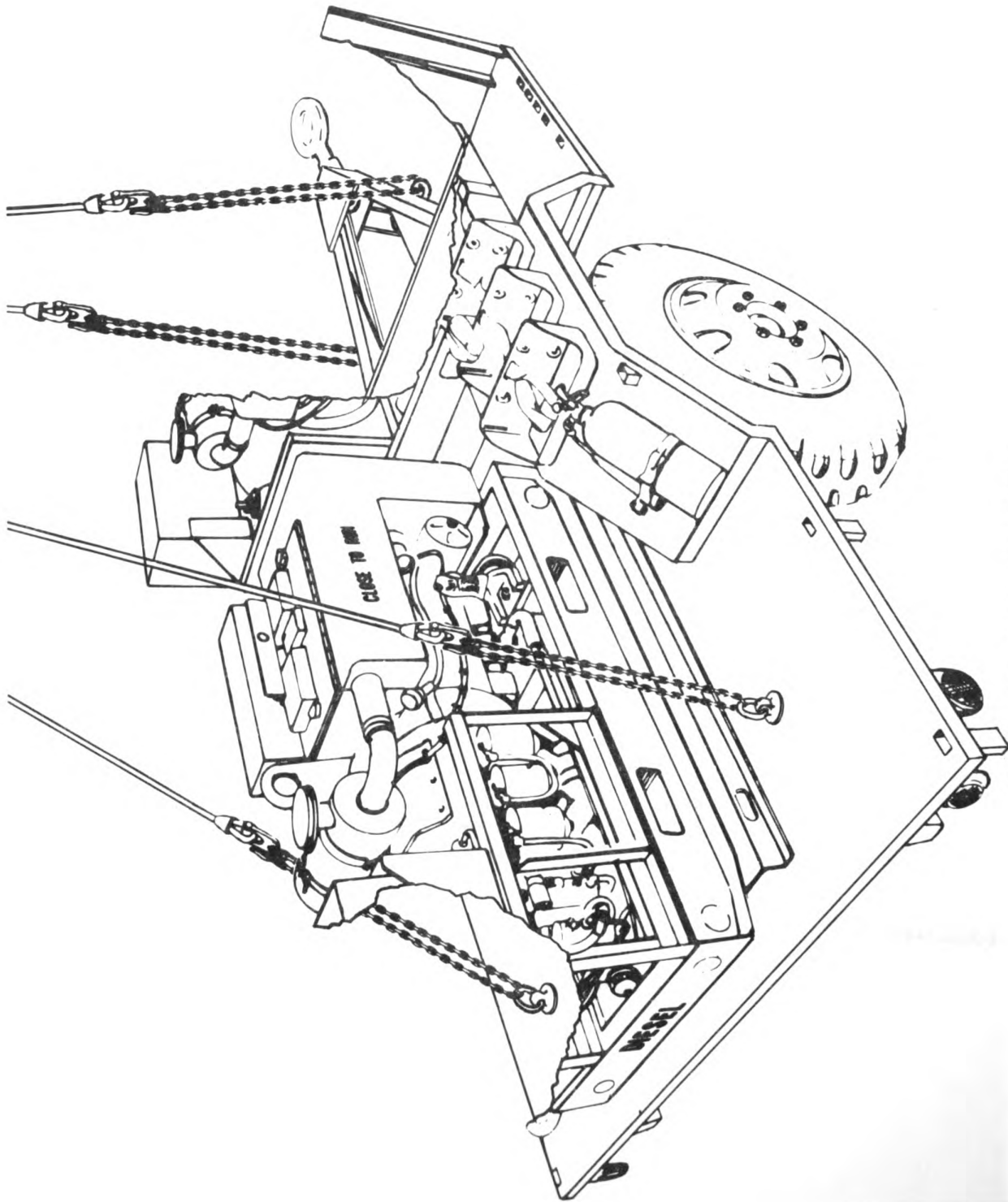


Figure C-5. Lifting Sling Hookup, Top View



Figure C-6. Transporting by Helicopter

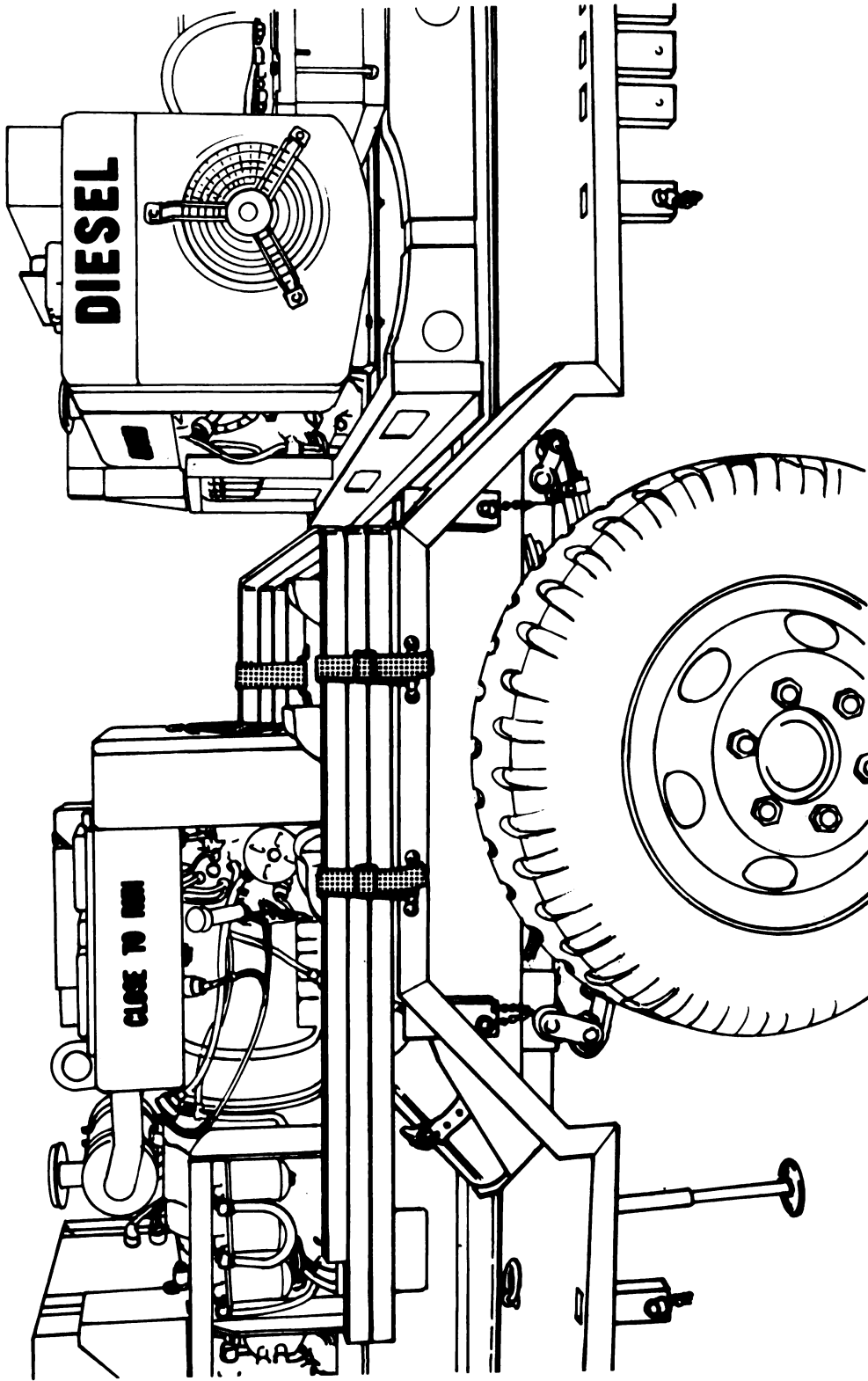


Figure C-7. Crossbows, Stored Position for Shipment by Air

Table C-1. Explanation of Codes

Item	Description
A	6 x 19, 0.25 dia steel cable, 2 strands each leg, twisted tight
B	6 x 7, 0.50 dia steel cable, 3 strands each leg twisted tight or 6 x 7, 0.62 dia steel cable, 2 strands each leg twisted tight
C	Same as B
D	Same as A
E	Same as B
F	Same as B
G	Std check block
H	2'' x 4'' x 30'' lumber, 3 places
J	6 x 6 lumber column

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6	2-1 a		
B1		4-3	
125	line 20		

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

In line 6 of paragraph 2-1a the manual states the engine has 6 Cylinders. The engine on my set only has 4 Cylinders. Change the manual to show 4 Cylinders.

Callout 16 on figure 4-3 is pointing at a bolt. In key to figure 4-3, item 16 is called a shim - Please correct one or the other.

I ordered a gasket, item 19 on figure B-16 by NSN 2 910-00-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN

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