SUPPLY BULLETIN

FSC CLASS 6135 PRIMARY BATTERY SUPPLY AND MANAGEMENT DATA

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HEADQUARTERS, DEPARTMENT OF THE ARMY

1 APRIL 1993

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WARNINGS

- **NEVER** store primary batteries in direct sunlight or expose to temperatures of 130°F or higher.

- **DO NOT** package any battery if it is hot/warm. Only package batteries when they are cool to the touch.

FIRE CONTROL/SUPPRESSION

- **DO NOT** use water to extinguish a battery fire if a shock hazard exists due to high voltage electrical equipment in the immediate vicinity (i.e. greater than 30 volts, alternating current (ac) or direct current (dc)).

- Halon fire extinguishers **SHALL NOT** be used to combat fires involving batteries.

LITHIUM BATTERIES

- Lithium-Sulfur Dioxide batteries contain pressurized sulfur dioxide (SO_2) gas. The gas is highly toxic, and the battery **MUST NOT** be abused in any way which may cause the battery to rupture.

- Lithium-Thionyl Chloride batteries contain liquid Thionyl Chloride ($SOCl_2$), which fumes upon exposure to air. The vapor is highly toxic, and the battery **MUST NOT** be abused in any way which may cause the battery to rupture.

- **IMMEDIATELY** turn off the equipment if battery compartment becomes hot to the touch. Allow the battery to cool (i.e., at least 60 minutes) before removing it.

- If you hear a hissing sound (i.e., battery venting), or smell irritating gas, **REMOVE** the equipment to a well ventilated area or **LEAVE** the area.

STORAGE OF PRIMARY BATTERIES

- **DO NOT** store batteries with or in the same stacks with other hazardous material.

- **DO NOT** eat or smoke near batteries, and keep batteries away from open flame or heat.

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Supply Bulletin

No. 11–6

HEADQUARTERS,
DEPARTMENT OF THE ARMY
Washington, DC, 1 April 1993

FSC CLASS 6135
PRIMARY BATTERY
SUPPLY AND MANAGEMENT DATA

Current as of: 1 April 1993

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of 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 back of this manual direct to: Commander, US Army Communications–Electronics Command and Fort Monmouth, ATTN: AMSEL–LC–LM–LT, Fort Monmouth, New Jersey 07703–5007.

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* This supply bulletin supersedes SB 11–6, 1 December 1987, SB 11–30, 17 May 1982, and SB 11–499, 26 June 1961, in their entirety.

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INTRODUCTION

1. Purpose.

Supply Bulletin SB 11-6 lists and describes the types and quantities of USACECOM-managed primary batteries required to operate and maintain Department of Defense equipment which use Federal Stock Code (FSC) Class 6135 primary batteries. SB 11-6 also provides information and prescribes policies and procedures for transportation, storage and disposition, safety and control measures, marking and testing of USACECOM-managed primary batteries.

The purpose of this supply bulletin (SB) is to identify all CECOM-managed primary batteries and the end items that utilize CECOM managed batteries. Many of the batteries currently managed by CECOM are being transferred to the control of the Defense Logistics Agency (DLA). The known batteries which have been or are currently in the process of being transferred to DLA, at the time this SB was published, have been annotated as such within this bulletin. It is the responsibility of any persons utilizing this SB to verify that the NSN is still managed by CECOM.

2. Scope.

Primary batteries, identified and described in this supply bulletin, are classified into two groups titled Reserve and Nonreserve and are defined as follows:

a. Reserve primary batteries are held in reserve with essentially no storage degradation. They are used for a one-time short duration operational mission during which they are totally consumed. Reserve primary batteries are used in missile and radiosonde applications and include the following:

(1) Automatically activated (Zinc-Silver Oxide) batteries.

(2) Thermal (variety of solid electrolyte salts) batteries.

(3) Water-activated (Magnesium, Cuprous or Silver-Chloride) batteries.

b. Nonreserve primary batteries are intended for longer periods of usage and degrade in varying degrees while in storage. Dry batteries by definition constitute a category of Nonreserve type primary batteries. Nonreserve primary batteries are generally used in communications, electronic detection, testing and medical equipment applications and include the following:

(1) Dry batteries: Carbon-Zinc
Mercury
Alkaline
Magnesium

(2) Lithium batteries

(3) Silver Chloride and Silver Oxide batteries

3. Requisitioning Primary Batteries.

It is the responsibility of each equipment user to estimate primary battery requirements and to submit accurate and timely requisitions to satisfy these needs. By using the data provided in Table 1-1, the equipment user can locate his primary battery using equipment, identify the battery types and battery quantities required. Other factors to be considered in requisitioning of primary batteries are lead time and exact ordering quantities. The quantity of batteries to be ordered is determined by Quantity Unit Pack (QUP) data. The number of batteries per QUP varies depending on type and size of battery. You must order batteries by QUP, therefore if you needed 20 batteries and the QUP was 12 each you would have to order 2 unit packs or 24 each batteries. Contact your National Inventory Control Point (NICP) to determine the exact amount per Quantity Unit Pack for the battery type being requisitioned. Batteries should be requisitioned with sufficient lead time to insure a continuous supply of primary batteries for using equipments. Lead time information may be obtained from supporting supply agencies or the National Inventory Control Point (NICP).

NOTE

"Unit of Issue" changes are planned for all CECOM-managed FSC class 6135 batteries in FY93. This could necessitate changes in QUP.

NOTE

It is DoD policy to ship battery-using equipments without batteries. Batteries must be requisitioned and shipped separately.

4. Storage Batteries.

WARNINGS

Never store primary batteries in direct sunlight or expose them to temperatures of 130 °F or higher.

DO NOT eat or smoke near batteries, and keep batteries away from open flame or heat.

DO NOT store batteries with or in the same stacks with other hazardous materials.

CAUTION

Specifics related to the handling and fire control/suppression for these batteries can be found in paragraph 7 of this bulletin. Users are advised to check with the appropriate local organizations to assure compliance with any state or local fire regulations that may govern the storage of these batteries.

NOTE

Activities are responsible for obtaining approval for battery storage areas from their local fire department.

All batteries shall be stored in a well ventilated area to preclude the build-up of fumes in the event a battery(ies) should leak. Adequate access shall be available to all batteries within the storage area, and batteries of different chemistries should not be stored within the same stack.

Lithium batteries (BA-5XXX/U and BA-6XXX/U) shall be stored in a sprinkler protected facility. If such a facility is not available, a noncombustible building or structure will be a second choice. However, if this be the case, no other hazardous commodity shall be stored in the stack. Further guidance as to the management of lithium batteries can be found in TB 43-0130.

All nonreserve primary batteries experience some degree of degradation in capacity while in storage. The degree to which this deterioration takes place is a function of the particular battery chemistry and the temperature at which the batteries are stored. In general, the lower the storage temperature the slower any degradation of capacity. Recent studies have shown that no battery requires refrigeration (32°F).

a. The following batteries require storage where the ambient temperature does not exceed 80 ^{o}F (air conditioned storage is preferred, but not required).

(1) Zinc-Silver Chloride: BA-245/U and BA-2245.

NOTE

The BA-2245/U battery is meant to operate in cold weather only. It must **never** be stored at temperatures above 70°F.

(2) Carbon-Zinc: All BA-XXX batteries with the exception of the BA-259/AM, BA-472/U, BA-485/U, BA-486/U and BA-600/U thru BA-699/U.

(3) Mercury: All BA-1XXX/U batteries.

(4) Alkaline: All BA-3XXX/U batteries.

(5) Magnesium: All BA-4XXX/U batteries.

b. Should the ability to store batteries at an ambient temperature below 80°F be limited, the batteries may be removed from 80°F storage in the following order:

(1) Magnesium

(2) Alkaline

(3) Mercury

(4) Carbon-Zinc

(5) Zinc-Silver Chloride - These batteries should never be kept in casual storage conditions where the temperature exceeds 80°F, (70°F for the BA-2245/U). If the required temperature cannot be maintained under casual storage conditions, then air conditioned or refrigerated storage must be utilized.

NOTE

Carbon-Zinc and Zinc-Chloride batteries are most seriously affected by high temperature and must be maintained in an air conditioned environment. Return these batteries to air conditioned storage as soon as sufficient space becomes available.

c. The following batteries may be stored at temperatures above 80°F:

(1) Water activated batteries: BA-259/AM.

(2) Zinc-Silver Oxide batteries: BA-472/U, BA-485/U, BA-486/U.

(3) Thermal batteries: BA-6XX/U.

(4) Lithium batteries: BA-5XXX/U and BA-6XXX/U.

Although these batteries can be stored at temperatures above 80°F, care should be taken to assure that temperatures much higher than this are avoided. Most batteries can withstand temperatures of 110°F for a period of 1 or 2 days with no noticeable loss of capacity. However, any battery will experience serious degradation when the temperature reaches 130°F for an extended period of time. No battery should be stored in direct sunlight nor be stored in a container that is exposed to direct sunlight. Storage in shelters with tin or galvanized roofs should also be avoided due to the possibility of temperatures exceeding 130°F.

5. Shelf Life of Primary Batteries.

a. *Dry batteries*. Dry batteries (Carbon-Zinc, Alkaline, Mercury, and Magnesium) lose capacity over time due to a phenomenon known as local action, whereby impurities within cell materials act like electrodes of opposite polarity. In recent years, manufacturers have been able to reduce the amount of impurities in cell materials without significantly increasing battery prices. As a result of this improvement, dry batteries are not as prone to deterioration in warm or hot environments as they once were. Recommended temperature for dry battery storage has therefore changed from 35 +/- 2 °F to 80 °F maximum. However, users should be made aware that batteries will still deteriorate faster at warm or hot temperatures than at cool temperatures.

The shelf life rating of dry batteries ranges from 3 years (Mercury) to 4 years (Magnesium and some Alkaline). These shelf life ratings are based on maintaining storage temperatures within 80°F maximum range. Higher storage temperatures may cause more rapid loss and should therefore be avoided. If air conditioned storage is not possible, refrigerators may be used to slow down the capacity loss; otherwise, keep batteries as cool as possible, out of direct sunlight, and in well ventilated areas.

b. *Zinc-Silver-Chloride*. Zinc-Silver-Chloride batteries (BA-245/U and BA-2245/U) are special purpose batteries which use chloride electrolyte. They have a short shelf life when compared to other types of primary batteries: 18 months for the BA-2245/U and 24 months for the BA-245/U. These shelf life ratings are based on the chemical activity that results from use of a chloride electrolyte and cannot be improved economically as with dry batteries. The chemical activity that results in capacity loss can be slowed by storage at colder temperatures. While the BA-245/U can tolerate a temperature of 80 °F maximum, the BA-2245/U

should never be stored at temperatures in excess of 70 °F. This is because it is a cold weather battery that becomes chemically active when warm. Refrigerated storage, if available, should be used for this battery. If air conditioned space is not available, the BA-245/U can be refrigerated as well.

c. *Lithium batteries*. At the present time there are three CECOM Lithium battery chemistries in use in the Department of Defense (DoD): Lithium-Sulfur Dioxide, Lithium-Manganese Dioxide, and Lithium-Thionyl Chloride.

Lithium-Sulfur Dioxide batteries are all assigned a shelf life code of X, meaning more than 60 months. There is no higher shelf life code presently available for DoD items. These batteries lose capacity over time due to chemical action of the Sulfur Dioxide and Lithium, which consumes some of the Lithium and leaves a film on the anode within each cell. Research has shown that this film forms a protective barrier around the anode that slows and eventually stops the capacity loss process, if the batteries are kept at a relatively constant temperature. It should be noted that moving these batteries to a higher temperature storage will result in more capacity loss which will eventually slow down and stop. Storage at a maximum temperature of 80 °F is recommended. As a general rule, the cooler the storage temperature, the slower the rate of capacity loss. If it becomes operationally necessary to store these batteries at a high temperature, keep them out of direct sunlight, but allow for the maximum possible ventilation (storage under a tent fly is okay - storage under a tarp wrapped around the batteries is not). As general guidance, it should be noted that if the storage area is too hot for human presence, the batteries shouldn't be there either.

Lithium-Manganese Dioxide batteries (BA-5372/U) have similar shelf life characteristics to Lithium-Sulfur Dioxide batteries. They will however experience more deterioration when exposed to higher temperatures. Recommended storage at a maximum temperature of 80 °F is essential for maintaining the X shelf life rating.

Lithium-Thionyl Chloride batteries were thought to have good shelf life characteristics. Recent studies have shown that the chloride electrolyte is more active than originally was thought. The recommended storage temperature is 80°F maximum. While higher temperatures will cause more rapid deterioration, there is no evidence to suggest that lower temperatures will significantly prevent deterioration. The actual shelf life of these batteries is currently predicted to be between 2 and 3 years. Further study is needed, and will result in assignment of appropriate shelf life codes.

6. Disposition of Primary Batteries.

Batteries designated as Hazardous Waste (HW) for disposal should be disposed of via the local servicing Defense Reutilization and Marketing Office (DRMO), or via local contract, after coordination and concurrence with the local Installation Environmental Office (IEO). **DO NOT** accumulate waste batteries for more than ninety (90) days per EPA Regulations. For additional information on disposal of batteries refer to Technical Bulletin (TB)43-0134, "Battery Disposition and Disposal" and Technical Guide No. 126, "Waste Disposal Instructions".

a. Coordinate all disposition and disposal of batteries with:

(1) Local IEO to ensure conformance with environmental regulations.

(2) DoD Executive Agent (DoDEA) through your local IEO to ensure conformance with environmental regulations at OCONUS locations.

(3) Local servicing DRMO to ensure conformance with DoD disposition/disposal policies.

(4) Local Installation Transportation Office (ITO) to ensure conformance with transportation regulations.

(5) Supporting Safety Office/Officer (SO) and/or Industrial Hygienist (IH)/Preventive Medicine Office/Officer (PMO) to ensure safe handling, and for coordination of personal protective equipment (PPE), when recommended.

b. Disposal of Non-hazardous Solid Waste (NHSW): Batteries classified as NHSW may be disposed of with your general refuse.

(1) Good practices dictate that waste materials be disposed on a regular basis. Dispose of small quantities (i.e., less than 150 lbs.) of unserviceable or depleted NHSW batteries with general waste/refuse, as generated.

(2) Large quantities (i.e., 150 lbs. and over) of unserviceable or depleted NHSW batteries, or any quantity of damaged NHSW batteries, may be disposed of through the local servicing DRMO as unregulated waste, or via local contract.

c. Disposition and Disposal of Hazardous Material (HM) and Hazardous Waste (HW): A Material Safety Data Sheet (MSDS) or Hazardous Waste Profile Sheet (HWPS, DRMS Form 1930) is required for any HM and/or HW turned in to the DRMO.

(1) Any battery (e.g., mercury (Hg) batteries, BA-1000 series) identified as HW, that is turned in to the DRMO, may be recycled under Resource Conservation and Recovery Act (RCRA) regulations and managed as HM. You should contact your local IEO and DRMO prior to turn-in of these batteries to determine whether they will be received and managed as HM or HW. In addition, batteries may be recycled under local contract.

(2) Recycling and/or reclamation is the recommended option for disposition of batteries in lieu of disposal. The following battery chemical types should be considered candidates for recycling and/or reclamation based on federal and state requirements: Lead-acid, Mercury, Nickel-Cadmium and Silver batteries.

(3) Batteries designated as HW for disposal **may be** disposed of via the local servicing DRMO or via local contract. The DRMO will accept accountability and/or physical custody depending upon the availability of conforming, or most nearly conforming, storage areas.

WARNING

DO NOT package any battery if it is hot/warm. Only package batteries when they are cool to the touch.

d. Transfer to the Defense Reutilization and Marketing Office: The DRMO will accept accountability provided that the batteries are properly marked, labeled, packaged and turned in with appropriate documentation. The disposing activity must turn in the material (e.g., batteries) with an accompanying Disposal Turn-in Document (DTID, DD Form 1348-1), and provide a HWPS or MSDS for the item(s).

7. Safety and Control Measures.

7.1. Handling.

WARNINGS

Lithium-Sulfur Dioxide batteries contain pressurized Sulfur Dioxide (SO_2) gas. The gas is highly toxic, and the battery MUST NOT be abused in any way which may cause the battery to rupture.

Lithium-Thionyl Chloride batteries contain liquid Thionyl Chloride ($SOCl_2$) which fumes upon exposure to air. The vapor is highly toxic and the battery MUST NOT be abused in any way which may cause the battery to rupture.

IMMEDIATELY turn off the equipment if battery compartment becomes hot to the touch. Allow the battery to cool (i.e., at least 60 minutes) before removing it.

If you hear a hissing sound (i.e., battery venting), or smell irritating gas, REMOVE the equipment to a well ventilated area or LEAVE the area.

CAUTION

Personnel Protective Equipment (PPE) must be used when handling batteries that show signs of leaking, bulging, swelling, or deformity. See page 8, para 7.3 for PPE.

a. A hot battery may vent or rupture. **DO NOT** handle a **HOT** battery before it has cooled to the touch. If battery compartment becomes hot, **SHUT OFF EQUIPMENT**.

b. Inspect batteries for obvious physical damage or defect prior to use. **DO NOT** use defective or previously deadlined batteries.

c. If batteries show signs of leaking, **PROTECT** your hands with gloves. If you must handle batteries that are hot, then eye, face, hand and respiratory protection may be necessary and is recommended. Refer to para 7.3 for Personal Protective Equipment (PPE).

d. **DO NOT** heat, incinerate, crush, puncture, or mutilate batteries. Exercise care in handling batteries and container(s) of batteries to prevent crushing, puncturing, or mutilation which might damage the batteries.

e. **DO NOT** attempt to charge or recharge any primary (i.e., non-rechargeable) battery.

f. **DO NOT** disassemble any batteries unless authorized by an appropriate battery Technical Manual (TM).

g. **DO NOT** short circuit batteries.

h. **DO NOT** bypass an internal fuse, or replace a fuse with one of a different rating.

i. **DO NOT** overdischarge batteries. Remove battery(ies) from equipment immediately after it (they) fail(s) to operate equipment.

j. If an item of equipment uses two or more batteries, **ALWAYS** try to change and/or replace batteries in sets. In addition, try to use batteries from the same manufacturer, and with the same or similar manufacturer's date code. Keep sets together if your equipment uses sets of batteries.

k. **DO NOT** store batteries in equipment for longer than 30 days when the equipment is not in use.

l. **USE ONLY** batteries which have been authorized by the equipment TM.

m. **DO NOT USE** or force any battery which does not easily fit into the battery compartment of your equipment.

7.2. Fire Control/Suppression.

WARNINGS

DO NOT use water to extinguish a battery fire if a shock hazard exists due to high voltage electrical equipment in the immediate vicinity (i.e. greater than 30 volts, alternating current (ac) or direct current (dc)).

Halon fire extinguishers *SHALL NOT* be used to combat fires involving batteries.

a. Fire suppression equipment **MUST BE** provided by the activity which is storing the batteries and approved by the local Fire Department (FD) to ensure that proper suppression equipment is available for the type and quantity of batteries being stored.

b. A Carbon Dioxide (CO_2) fire extinguisher, (e.g., NSN 4210-00-202-7858, 10-B:C, Source of Supply (SOS): S9C), or equivalent, is recommended for battery storage area. This is a good general purpose extinguisher, and it can be used on all types of battery fires. It will not extinguish burning lithium metal; however, it should cool down the battery mass and may prevent additional batteries from venting.

c. A dry chemical fire extinguisher (e.g., NSN 4210-00-775-0127, 10-B:C, SOS: GSA), or equivalent, is recommended for flammable liquids and gases. This is a good general purpose extinguisher, and it can be used on all types of battery fires.

d. An approved Class-D fire extinguisher (e.g., NSN 4210-01-303-3999, SOS: S9C), or equivalent, (such as Lith-X), is recommended for Lithium battery storage areas.

7.3. Personal Protective Equipment.

a. Personal protective equipment (PPE) **MUST BE** used when handling batteries that show signs of leaking, bulging, swelling, or deformity.

b. If PPE is recommended, coordination is REQUIRED with the supporting SO, IH or PMO. Battery Technical Manuals (TM) and DA PAM 385-3 list appropriate PPE.

c. Types of Personal Protective Equipment: All PPE MUST meet applicable ANSI or NIOSH/MSHA requirements, or equivalent.

d. Hands

(1) For chemical protection when handling corrosive electrolyte, use the following gloves or equivalent.

Gloves, Rubber Industrial, Type 1

National Stock Number (NSN)	Source of Supply (SOS)	Size
8415-00-266-8673	S9T[1]	12
8415-00-266-8675	S9T	11
8415-00-266-8677	S9T	10
8415-00-266-8679	S9T	9

(2) For electrical protection use the following gloves rated at 1000 v:

Gloves, Electrical Worker, Type 1, Class 0

National Stock Number (NSN)	Source of Supply (SOS)	Size
8415-01-158-9453	S9T[1]	9
8415-01-158-9455	S9T	10
8415-00-158-9457	S9T	11

(3) For thermal protection use heat protective gloves, NSN 8415-01-092-3910, SOS: S9T[1], or equivalent.

e. Face and Eyes. Eye protection must meet requirements of ANSI Z87.1.

(1) Use the following face shield, or equivalent: NSN 4240-00-202-9473, SOS: S9G[2].

An additional faceshield is NSN 4240-00-542-2048, SOS: General Services Administration[3].

(2) Use chemical splash safety goggles, or equivalent: NSN 4240-01-292-2818, SOS: GFO[3].

f. Body. Use the following full body apron, or equivalent: NSN 8415-00-082-6108, SOS: S9T[1].

1. S9T: Defense Personnel Support Center, Philadelphia, PA 19101 at DSN 444-2000, or Commercial (215) 737-2000.
2. S9G: Defense General Supply Center, Richmond, VA 23297: DSN 695-4490 or Commercial (804)279-4490.
3. GFO: General Services Administration, 819 Taylor St., Fort Worth, TX 76102 at Commercial (817)334-2051.

g. Feet. Use the following boots or equivalent. These hard-top boots are chemical and electrical resistant.

Firemans Boot 13 1/2 inches High, Non-insulated, Black

National Stock Number (NSN)	Source of Supply (SOS)	Size
8430-00-753-5935	S9T[1]	5
8430-00-753-5936	S9T	6
8430-00-753-5937	S9T	7
8430-00-753-5938	S9T	8
8430-00-753-5939	S9T	9
8430-00-753-5940	S9T	10
8430-00-753-5941	S9T	11
8430-00-753-5942	S9T	12
8430-00-753-5943	S9T	13
8430-00-753-5944	S9T	14
8430-00-753-5945	S9T	15

h. Respirator. Properly fitted air purifying respirator, with NIOSH/MSHA certified cartridge for organic vapors/acid gases, or equivalent, is recommended. Ensure a proper fit by coordination with the supporting SO, IH, or PMO. SOS: S9G[2] or may be obtained through your local procurement system.

Respirators

Type Manufacturer	Small	Small/Med	Medium	Med/Large	Large	Notes
Half Mask:						
Wilson Premier 6000	4240-01-268-6636		4240-01-268-6637		4240-01-269-4169	
3M Easi-Air		4210-01-246-5401		4210-01-246-5404		1
MSA Comfo II	4210-01-248-8066		4210-01-248-8065		4210-01-234-8068	
Full Facepiece:						
Wilson Premier 6000			4210-01-268-6634			2
3M Easi-Air			4210-01-246-6426			2
MSA Ultra-Twin	4210-01-240-0052		4210-01-240-0050		4210-01-240-0053	
Cartridges, Organic Vapor/Acid Gas:						
Wilson Premier 6000			4240-01-268-0556			3
3M Easi-Air			4210-01-240-4661			3
MSA			4210-01-103-8475			3

Notes:
1. Mask provided in small/medium and medium/large sizes.
2. Mask provided in one size.
3. Cartridges available in 10/unit pack.

1. S9T: Defense Personnel Support Center, Philadelphia, PA 19101 at DSN 444-2000, or Commercial (215) 737-2000.
2. S9G: Defense General Supply Center. Richmond, VA 23297: DSN 695-4490 or Commercial (804)279-4490.

i. Flashlight: An explosion proof flashlight is required, e.g., NSN 6230-00-299-3035, or equivalent. SOS is GSA.

j. Emergency Shower and Eye Wash: All emergency eyewashes/showers must meet the requirements of ANSI Z358.1, latest edition. An approved emergency shower and eye wash station must be available, where recommended. Emergency eyewashes/showers are required to be flushed weekly for three (3) minutes. In addition, a source of FRESH water should be close at hand before attempting any service to vented Lead-Acid or vented Nickel-Cadmium batteries. Obtain through local procurement.

7.4. First Aid.

a. Skin: If battery contents or electrolyte are spilled and come in contact with the skin, IMMEDIATELY flush the affected area for at least 15 minutes with clean WATER and seek medical attention promptly.

b. Eyes: If battery contents or electrolyte come in contact with the eyes, IMMEDIATELY flush the affected area for at least 15 minutes with clean WATER and have someone else summon medical attention for you. Personnel must be trained in how to assist individuals in the vital first flushing of the eyes, in the event of eye contact. Such assistance is necessary for effective irrigation, as the eyelids go into spasm and remain shut, making it difficult for a person to flush the eyes without assistance.

7.5. Reporting of Incidents.

a. Safety incidents involving batteries, where the battery has bulged, leaked, vented or ruptured, or if personal injury or equipment damage has occurred due to a battery deficiency or malfunction, **MUST BE** reported to:

(1) The CECOM Safety Office, Fort Monmouth, New Jersey. Refer to Appendix C, Safety/Environmental Support.

(2) Via a Product Quality Deficiency Report (PQDR, SF 368) to:

Commander
USA CECOM
ATTN: AMSEL-LC-ED
Fort Monmouth, NJ 07703-5007.

b. Save battery samples for analysis, until disposition instructions are provided by CECOM.

8. Contents of Table 1-1. Primary Battery Using Equipment.

Table 1-1 lists the US military equipments which use USACECOM managed primary batteries together with other applicable technical data. All of the data in this table is arranged in columnar style. The following is an explanation of each of the columns:

a. *Type Designation.* This column contains the military type designation (type number) assigned to the using equipment/component.

b. *Description.* This column contains a description of the using equipment/component.

c. *Battery Type Number.* This column identifies the primary battery military or commercial part number that is used for each individual using equipment/component.

d. *Number in Use.* This column indicates the primary battery quantities required for each individual using equipment/component.

e. *Alternate Sources.* This column contains alternate batteries for use with the end item or identifies the appropriate TM which lists other sources of power.

f. *Note.* Where applicable, this column contains a numerically coded note. The note number coincides with a note in Appendix A which provides the user with an explanation.

9. Contents of Table 1-2. Primary Battery To End Item/Cross Reference.

This table lists the end item/component that uses a particular battery. The data in this table is arranged in columnar style. The following is an explanation of each of the columns:

a. *Military/Manufacturer Part Number.* This column lists, in alphanumeric order, the battery type numbers (military or commercial).

b. *Note.* Where applicable, this column contains a numerically coded note. The note number coincides with a note in Appendix A which provides the user with an explanation.

c. *National Stock Number.* This column lists the battery National Stock Numbers (NSN).

d. *End Item/Component.* This column contains the applicable end item/component that the battery is used in.

10. Contents of Table 1-3. Technical Characteristics.

This table lists USACECOM managed batteries together with applicable technical data. The table is arranged in columnar style. The following is an explanation of each of the columns:

a. *Military/Manufacturer Part Number.* This column lists, in alphanumeric order, the battery type numbers (military or commercial).

b. *Note.* Where applicable, this column contains a numerically coded note. The note number coincides with a note in Appendix A which provides the user with an explanation.

c. *Terminal Type.* This column defines the battery terminal type/types used.

d. *Nominal Voltage.* This column indicates the nominal voltage rating (volts) of the battery.

e. Terminal Voltage. This column contains battery tap voltage data and is subdivided into "TAP A", "TAP B", "TAP C", "TAP D", and "TAP E" data columns, as applicable.

f. Nominal Dimensions. This column contains battery dimensions in inches and is subdivided into "LENGTH", "WIDTH", "OVERALL HEIGHT", and "BODY HEIGHT" dimensional columns, as applicable.

11. Contents of Table 1-4. National Stock Number Index.

This table lists, in numeric order, the National Stock Numbers cross referenced to primary battery type. The data in this field is arranged in columnar style. The following is an explanation of each of the columns:

a. National Stock Number. This column lists, in numerical order, the applicable battery NSN.

b. Battery Type Number. This column lists the applicable battery type number (military or commercial).

c. Note. Where applicable, this column contains a numerically coded note. The note number coincides with a note in Appendix A which provides the user with an explanation.

12. Rechargeable Equivalents for Primary Batteries.

Certain primary batteries identified in this supply bulletin have rechargeable equivalents. Refer to Appendix B for applicable information.

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Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
2624(95411)		BA-222/U			11
2F56		BA-228/U			11
412(80468)		BA-56			11
4131	VHF	BA-5599/U			12
AAVP7A1	AAV, PERSONNEL	BA-200/U			1,12
AAVR7A1	AIR SEA RESCUE KIT	BA-200/U BA-1328/U			1,12 11
AERP	AIRCREW EYE-RESPIRATORY PROTECTION	BA-5588/U	2	See Appendix B	
AM-1301/SIC		BA-31			11
AM-4872/FRC-136	AMPLIFIER RADIO	BA-419/U			11
AN/AAM-56	ALIGNMENT SET. AIRBORNE LASER TRACKER	BA-1100/U	1		
AN/ALM-154	FLIGHT LINE TEST SET	BA-3042/U		See Appendix B	3
AN/ARM-164	ELECTRONIC SHOP, MAINTENANCE (CLOCK)	BA-1087/U	1	See Appendix B	4
AN/ASH-20		BA-1328/U			11
AN/ASM-189C	ELECTRONIC SHOP, SEMITRAILR	BA-3030/U	2	See Appendix B	2
AN/ASM-190A	ELECTRONIC SHOP. SEMITRAILER	BA-3030/U	2	See Appendix B	2
AN/ASN-149	GPS 5 NAVSTAR 2-CHANNEL RECEIVER SET	BA-3042/U		See Appendix B	3,11
AN/AVS-6	AVIATORS NIGHT VISION IMAGING SYS	BA-5567/U	2	BA-3058/U	4

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/BQC-1	COMMUNICATION SET SONAR	BA-35 BA-33 BA-34			11
AN/BQC-1B	EMERGENCY UNDERWATER	BA-203/U			11
AN/BQH-2	SEARCHLIGHT	BA-802/U BA-2 BA-59			11
AN/BQH-2A	SEARCHLIGHT	BA-59			11
AN/BQH-2B	SEARCHLIGHT	BA-59			11
AN/BQH-2C	SEARCHLIGHT	BA-2			11
AN/BQH-2D	SEARCHLIGHT	BA-2			11
AN/BQQ-6	TRACKING RECEIVER	BA-203/U			11
AN/BQR-2C		BA-802/U			11
AN/BQS-4B		BA-802/U			11
AN/BSY-1(16848)		BA-3090/U			5,11
AN/CYZ-10	DATA TRANSFER DEVICE	BA-3090/U	1	See Appendix B	5
AN/DSM-76		BA-3058/U		See Appendix B	11
AN/DSM-78	TEST SET	BA-1373/U			11
AN/FQM-1		BA-203/U			11
AN/GMQ-33	TACTICAL TRANSMITTER CLOUD HEIGHT SYS	BA-5557/U		See Appendix B	
AN/GRA-6	RECEIVER TRANSMITTER	BA-414/U	1		
AN/GRA-39	RADIO SET, CONTROL GROUP	BA-3030/U	12	See Appendix B	2
AN/GRA-39B	RADIO SET, CONTROL GROUP	BA-3030/U	12	See Appendix B	2

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/GRA-114	RADIO SET, CONTROL GROUP	BA-4386/ PRC-25	2	BA-5598/U See Appendix B	
AN/GRC-9	RADIO SET	BA-48 BA-1293/U			11
AN/GRC-9A	RADIO SET	BA-48 BA-2			11
AN/GRC-26A	RADIO SET	BA-31	3		9
AN/GRC-26B	RADIO SET	BA-31	3		9
AN/GRC-26C	RADIO SET	BA-31	3		9
AN/GRC-41	RADIO SET	BA-31	3		9
AN/GRC-87 (12V)	RADIO SET	BA-48	1		
AN/GRC-87 (24V)	RADIO SET	BA-48	1		
AN/GRC-122C	RADIO TELETYPEWRITER SET	BA-5598/U BA-414/U	2 1	See Appendix B	
AN/GRC-142A	RADIO TELETYPEWRITER SET	BA-414/U	1		
AN/GRC-142B	RADIO TELETYPEWRITER SET	BA-414/U	1		
AN/GRC-210	RADIO SET, AUXILIARY, GROUND	BA-5372/U		BA-1372/U	12
AN/GRC-213	RADIO SET	BA-5590/U	1	See Appendix B	
AN/GRQ-21	REPEATER SET, RADIO	BA-1544/U	1		12
AN/GRQ-21	REPEATER SET, RADIO UGSS	BA-1542/U			12
AN/GRQ-26	SENSOR, REMOTE, AUDIO RELAY	BA-5598/U			12
AN/GSA-132A	CONTROL BOX, GM LAUNCHING	BA-1328/U			12

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/GSC-52(V1)	SATELLITE COMMUNICATION SYS	BA-200/U			1
AN/GSC-52(V2)	SATELLITE COMMUNICATION SYS	BA-200/U			1
AN/GSQ-80A	CENTER MESSAGE (LESS POWER) (CLOCK)	BA-3058/U	1	See Appendix B	4
AN/GSQ-135		BA-2			11
AN/GSQ-151(V1)	ALARM SET, ANTI-INTRUSION	BA-1090/U	2	BA-3090/U See Appendix B	5
AN/GSQ-154	ALARM SET, ANTI-INTRUSION	BA-1546/U	1		10,12
AN/GSQ-171	ALARM SET, ANTI-INTRUSION	BA-1546/U			10,12
AN/GSQ-176	ALARM SET, ANTI-INTRUSION	BA-1542/U			12
AN/GSQ-187	SENSOR MONITORING SET	BA-5590/U	2	See Appendix B	
AN/GTC-1	RANGING SET FLASH	BA-34 BA-27 BA-26			12
AN/GYK-29	BATTERY COMPUTER SYS	BA-5590/U			
AN/MGC-9A	CENTRAL OFFICE TELETYPE	BA-3090/U	12	See Appendix B	5
AN/MGC-17	CENTRAL OFFICE TELETYPE	BA-1373/U	6		
AN/MGC-19	TELETYPEWRITER, OPERATOR CONTROL (CLOCK)	BA-3058/U	1	See Appendix B	4
AN/MGC-22	TELETYPEWRITER TERMINAL	BA-1094/U	1		
AN/MLQ-36	MOBILE EW SUPPORT SYS (MEWSS)	BA-3058/U BA-200/U BA-5600/U		See Appendix B	1,4,12
AN/MPQ-50	RADAR SET, (XO-2) (HAWK)	BA-1328/U			12

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/MPQ-61	RADAR SET, (XO-2) (HPI) (HAWK)	BA-1328/U			12
AN/MPQ-62	RADAR SET, (HAWK)	BA-1328/U			12
AN/MSC-25	OPERATION CENTER, COMMUNICATION	BA-5598/U			
AN/MTC-7	CENTRAL OFFICE TELEPHONE	BA-200/U	20		1
		BA-2	4		9
		BA-3030/U	12		2
AN/MTC-10	CENTRAL OFFICE TELEPHONE	BA-2	8		1
		BA-3030/U	16		2
		BA-200/U	20		1
AN/PAQ-4	AIMING LIGHT INFRARED	BA-5567/U	2		
AN/PAQ-4A	AIMING LIGHT INFRARED	BA-5567/U	1	BA-3058/U w/adapter	4
AN/PAR-1	RECEIVING SET INFRA RED	BA-261/U			
		BA-823/U			11
AN/PAS-5	ELECTRONIC BINOCULAR	BA-1312/U	1		
AN/PAS-6	METASCOPE	BA-1312/U	1		
AN/PAS-7A	VIEWER, THERMAL	BA-5599/U	1		
AN/PDR-10	RADIAC SET	BA-1312/U			12
		BA-1288/U			
AN/PDR-27A	RADIAC SET	BA-401/U	4		
		BA-413/U	2		
		BA-416/U	2		
AN/PDR-27C2	RADIAC SET	BA-413/U			12,13
AN/PDR-49	RADIAC SET	BA-331/U			11
AN/PDR-54	RADIAC SET	BA-1330/U			11

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/PDR-56G	RADIAC SET	BA-1288/U BA-1318/U			12
AN/PDR-56H	RADIAC SET	BA-1288/U BA-1318/U			12
AN/PDR-60	RADIAC SET	BA-1082/U	2		
AN/PDR-63	RADIAC SET	BA-3058/U		See Appendix B	4,12
AN/PDR-75	COMPUTER INDICATOR RADIAC SET	BA-5590/U		See Appendix B	
AN/PIH-1	PUBLIC ADDRESS SET	BA-5590/U	4	See Appendix B	
AN/PIQ-1	PUBLIC ADDRESS SYS	BA-401/U	4		9
AN/PIQ-5A		BA-207/U			
AN/PMQ-6	WIND MEASUREMENT SET	BA-261/U BA-416/U	1 2		10 10
AN/PMQ-6A	WIND MEASUREMENT SET	BA-261/U BA-416/U	1 2		10 10
AN/PPN-19(V1)	TRANSPONDER SET	BA-5590/U	2	See Appendix B	
AN/PPN-19(V2)	TRANSPONDER SET	BA-5590/U	2	See Appendix B	
AN/PPS-15(V)2	RADAR SET (LBSR)	BA-4386/ PRC-25			12
AN/PPS-15B	RADAR SET	BA-5598/U	1	See Appendix B	
AN/PQS 1	META SCOPE	BA-33			
AN/PQS-1(XN-1)	DETECTING RANGING SET SONAR	BA-1312/U BA-1006/U			11
AN/PRC-6	RADIO SET	BA-270/U			11
AN/PRC-8	RADIO SET	BA-279/U			11

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/PRC-9	RADIO SET	BA-279/U			11
AN/PRC-9A	RADIO SET	BA-279/U			11
AN/PRC-10	RADIO SET	BA-279/U			11
AN/PRC-10A	RADIO SET	BA-279/U			11
AN/PRC-25	RADIO SET	BA-4386/ PRC-25	1	BA-5598/U See Appendix B	
AN/PRC-29	RADIO SET	BA-59 BA-65			11
AN/PRC-39	RADIO SET	BA-833/U			11
AN/PRC-40	RADIO SET	BA-833/U			11
AN/PRC-61	RADIO SET	BA-210/U			11
AN/PRC-68	SMALL UNIT TRANSCEIVER	BA-5588/U	1	See Appendix B	
AN/PRC-68A	SQUAD LEVEL RADIO	BA-5588/U	1	See Appendix B	
AN/PRC-74	MANPACK RADIO	BA-4386/ PRC-25	2	BA-5598/U See Appendix B	
AN/PRC-77	RADIO SET	BA-4386/ PRC-25	1	BA-5598/U See Appendix B	
AN/PRC-90	RADIO SET	BA-1568/U	1		
AN/PRC-90-2	RADIO SET	BA-1568/U			13
AN/PRC-104	RADIO SET	BA-5590/U		See Appendix B	12
AN/PRC-104A	RADIO SET. HF	BA-5590/U	2	See Appendix B	
AN/PRC-104B	RADIO SET, HF	BA-5590/U	2	See Appendix B	
AN/PRC-112	RADIO SET	BA-5112/U	1		

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/PRC-113	ULTRA-HIGH FREQUENCY RADIO	BA-5590/U	2	See Appendix B	
AN/PRC-119	RADIO SET (SINCGARS)	BA-5590/U	1	See Appendix B	
		BA-5372/U	1	BA-1372/U	
AN/PRC-126	RADIO SET	BA-5588/U	1	See TM 11-5820-1025 See Appendix B	
AN/PRC-128	HANDHELD RADIO	BA-5588/U	1	See Appendix B	
AN/PRC-132	RADIO SET	BA-5590/U	2	See Appendix B	
AN/PRD-10	DIRECTION FINDER SET	BA-4386/ PRC-25	1	BA-5598/U See Appendix B	
AN/PRD-11	RADIO DIRECTION SET	BA-4386/ PRC-25	1	BA-5598/U See Appendix B	
AN/PRD-54	DIRECTION FINDER SET	BA-1030/U			11
AN/PRM-1A		BA-31	2		11
		BA-35	2		
		BA-36	2		
		BA-3058/U	2	See Appendix B	4
AN/PRM-1B		BA-31	2		11
		BA-35	2		
		BA-36	2		
		BA-3058/U	2	See Appendix B	4
AN/PRM-34	RADIO TEST SET	BA-5847/U	1		
AN/PRR-9	RECEIVER RADIO SET	BA-505/U	1		
AN/PRS-1		BA 53			
AN/PRS-7	MINE DETECTOR SET	BA-1844/U	1		
AN/PRT-4	TRANSMITTER SET, RADIO	BA-399/U	1		10
AN/PRT-4A	TRANSMITTER SET, RADIO	BA-399/U	1		10

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/PSC-2	DIGITAL COMMUNICATIONS TERMINAL	BA-5600/U	1		
AN/PSC-3	RADIO SET, SATELLITE, MANPACK	BA-5590/U	2	See Appendix B	
AN/PSG-2A	MESSAGE DEVICE, DIGITAL	BA-5557/U	1	See Appendix B	
AN/PSG-2B	MESSAGE DEVICE, DIGITAL	BA-5557/U	1	See Appendix B	
AN/PSG-5	FIST DIGITAL MESSAGE DEVICE (DMD)	BA-5557/U	1	See TM 11-7025-244-12&P See Appendix B	
AN/PSM-4	MULTIMETER	BA-261/U			11
AN/PSM-4A	MULTIMETER	BA-261/U			11
AN/PSM-4B	MULTIMETER	BA-261/U			11
AN/PSM-4C	MULTIMETER	BA-261/U			11
AN/PSM-6	MULTIMETER	BA-1328/U BA-1363/U	1 1		
AN/PSM-6A	MULTIMETER	BA-1328/U	1		
AN/PSM-37( )	MULTIMETER	BA-3058/U		See Appendix B	4,13
AN/PSM-45A	DIGITAL MULTIMETER	BA-3090/U	1	See Appendix B	5
AN/PSM-68		BA-1330/U			
AN/PSN-6	LORAN, NAVIGATIONAL SET	BA-4386/ PRC-25	1	12.5 VDC Vehicle Power See Appendix B	
AN/PSN-8	GLOBAL POSITIONING SYS, 1 CHANNEL, MANPACK	BA-5590/U	1	See Appendix B	
AN/PSN-10	GLOBAL POSITIONING SYS, 2 CH, RECEIVER, HANDHELD (SLUGGER)	BA-5800/U	2		

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/PSQ-1A		BA-333/U			11
AN/PSQ-4	POSITION LOCATION REPORTING SYS	BA-5372/U	1	BA-1372/U	
		BA-5590/U		See Appendix B	
AN/PSS-11	DETECTING SET, MINE PORTABLE METALLIC	BA-1389/U	1		
AN/PTM-5	TEST SET, TELEPHONE	BA-261/U	1		10
		BA-3058/U		See Appendix B	4
AN/PTM-6	TEST SET, TELEPHONE	BA-26	3	See TM 11-6625-242	9
		BA-210/U	4		
AN/PVQ-1	SPOTLIGHT SET	BA-207/U	2		
AN/PVS-X	MINI LASER RANGE FINDER	BA-5567/U	4		
AN/PVS-1	NIGHT VISION SIGHT	BA-1100/U	2		
AN/PVS-2	NIGHT VISION SIGHT	BA-1100/U	1		
AN/PVS-2A	NIGHT VISION SIGHT	BA-1100/U	1		
AN/PVS-2B	NIGHT VISION SIGHT	BA-1100/U	1		
AN/PVS-4	NIGHT VISION SCOPE	BA-5567/U	2	BA-3058/U	4
AN/PVS-5A	NIGHT VISION GOGGLE	BA-5567/U	1		
AN/PVS-5B	NIGHT VISION GOGGLE	BA-3058/U	2	BA-5567/U See Appendix B	4
AN/PVS-5C	NIGHT VISION GOGGLE	BA-3058/U	2	BA-5567/U See Appendix B	4
AN/PVS-7A	NIGHT VISION GOGGLE	BA-3058/U	2	BA-5567/U See Appendix B	4
AN/PVS-7B	NIGHT VISION GOGGLE	BA-3058/U	2	BA-5567/U See Appendix B	4

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/SAR-6	VIEWING SET INFRARED	BA-1030/U BA-419/U		See Appendix B	11
AN/SLQ-48	COUNTERMEASURES SET	BA-3042/U BA-3090/U		See Appendix B	3,5,11
AN/SPN-35A	RADAR SET	BA-200/U			1,11
AN/SRA-56	ANTENNA	BA-36			8,11
AN/TAQ-1	SURVEILLANCE INFORMATION CENTER, INFRARED	BA-1030/U	1	See Appendix B	
AN/TAS-4A	NIGHT VISION SIGHT	BA-5590/U	2	See Appendix B	
AN/TAS-6A	NIGHT OBSERVATION DEVICE LONG RANGE (NODLR)	BA-5590/U	2	See Appendix B	
AN/TCC-29	TERMINAL, TELEGRAPH	BA-200/U	10		1
AN/TCC-72A	TERMINAL, TELEPHONE	BA-3090/U		See Appendix B	5
AN/TGC-30A	CENTRAL, OFFICE TELETYPEWRITER (CLOCK)	BA-3058/U	1	See Appendix B	4
AN/TGC-38		BA-1373/U			
AN/TMQ-4	METEOROLOGICAL STATION MANUAL	BA-259/AM	1		9
AN/TMQ-31	METEOROLOGICAL DATA SYS	BA-259/AM BA-414/U			12
AN/TMQ-34	TACTICAL METEOROLOGICAL SYS	BA-5557/U		See Appendix B	
AN/TNH-23	SOUND RECORDER	BA-3058/U	4	See TM 11-5835-251 See Appendix B	4
AN/TNH-23A	SOUND RECORDER	BA-3058/U	4	See TM 11-5835-251 See Appendix B	4

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/TPS-56B		BA-1030/U		See Appendix B	
AN/TRC-68	RADIO SET	BA-414/U			
AN/TRC-68A	RADIO SET	BA-414/U	1		
AN/TRC-145A	RADIO TERMINAL SET (CLOCK)	BA-3058/U	1	See Appendix B	4
AN/TRC-191A	RADIO UNIT	BA-1318/U	1		
AN/TRN-30(V)1	BEACON SET	BA-4840/U	1		
AN/TRQ-23	RECEIVING SET, RADIO	BA-200/U BA-408/U	1		1
AN/TRS-2(V)	PLATOON EARLY WARNING SYS	BA-3090/U	1	See Appendix B	5
AN/TRS-7		BA-1844/U			
AN/TSC-95	COMMUNICATION SYS	BA-200/U			1
AN/TSM-126	ELECTRONIC SHOP	BA-804/U	1		
AN/TSM-126A	ELECTRONIC SHOP, TRANSPORTABLE	BA-804/U	1		
AN/TSQ-129A	MASTER STATION	BA-5590/U		See Appendix B	12
AN/TSW-13	GM BATTERY CONTROL CENTRAL HAWK	BA-1328/U			12
AN/TTC-38(V)2	CENTRAL OFFICE, TELEPHONE AUTO	BA-3042/U		See Appendix B	3
AN/TVS-2	NIGHT VISION SIGHT	BA-1100/U	1		
AN/TVS-2A	NIGHT VISION SIGHT	BA-1100/U	1		
AN/TVS-2B	NIGHT VISION SIGHT	BA-1100/U	1		
AN/TVS-4A	NIGHT VISION	BA-1100/U	1		
AN/TVS-4B	NIGHT VISION	BA-1100/U	1		

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/TVS-5	NIGHT VISION	BA-5567/U	2	BA-3058/U See Appendix B	4
AN/TYA-12	COMMUNICATION GROUP - TAOC	BA-210/U BA-414/U			12
AN/TYA-28	MAINTENANCE FACILITY GROUP	BA-3042/U		See Appendix B	3
AN/TYQ-2	TACTICAL AIR OPERATIONS CENTER	BA-210/U BA-414/U			12
AN/UAS-12A	EQUIPMENT SET, NIGHT VISION	BA-5590/U		See Appendix B	12
AN/UGC-74	COMMUNICATIONS TERMINAL	BA-5598/U	1	See Appendix B	
AN/UGC-74A	COMMUNICATIONS TERMINAL	BA-5598/U	1	See Appendix B	
AN/UGC-74B	COMMUNICATIONS TERMINAL	BA-5598/U	1	See Appendix B	
AN/UIH-4	PUBLIC ADDRESS SET	BA-410/U	4		
AN/UIH-6	MANPORTABLE PUBLIC ADDRESS SYS	BA-5590/U	4	BB-651/U See Appendix B	
AN/UIH-6A	MANPORTABLE PUBLIC ADDRESS SYS	BA-5590/U	4	BB-651/U See Appendix B	
AN/UMQ-4	WIRESONDE SET	BA-409/U	2		9
AN/UPM-46		BA-205/U			
AN/URC-4	RADIO SET	BA-1264/U	1		
AN/URC-100	VHF/UHF-TRANSCEIVER	BA-5590/U	2	See Appendix B	
AN/URC-101	UHF/VHF AM/FM TRANSCEIVER SATELLITE NETWORK	BA-5590/U	2	See Appendix B	
AN/URC-110	DATA TRANSCEIVER	BA-5590/U	2	See Appendix B	

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/URC-112	RADIO SET	BA-5590/U		See Appendix B	11
AN/URD-2	DIRECTION FINDER	BA-63 BA-65			11
AN/URD-2A	DIRECTION FINDER	BA-63 BA-65			11
AN/URM-32	FREQUENCY METER	BA-419/U	2	See TM 11-5120	9
AN/URM-32A	METER, ELECTRONIC FREQUENCY	BA-419/U	2	See TM 11-5120	9
AN/URM-93	VOLTAGE STANDARD RADIO FREQUENCY	BA-1106/U	2		
AN/URM-105C	MULTIMETER	BA-261/U	1	BA-3058/U	10,4
AN/URR-69	RECEIVER RADIO	BA-4386/ PRC-25	1	See Appendix B	
AN/USA-32	ANTENNA GROUP	BA-4386/ PRC-25	1	See Appendix B	
AN/USM-21	OHMMETER	BA-1328/U			13
AN/USM-21A	OHMMETER	BA-1328/U			13
AN/USM-88		BA-419/U BA-1030/U		 See Appendix B	11
AN/USM-90	TEST SET, ELECTRIC	BA-245/U	1	BA-2245/U (Cold Weather Only)	
AN/USM-223	MULTIMETER	BA-1312/U BA-3042/U	6 1	 See Appendix B	3
AN/USM-319A	MULTIMETER	BA-261/U	1		10
AN/USQ-46	RF RADIO SET	BA-4386/ PRC-25	1	BA-5598/U See Appendix B	

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
AN/USS-2A	POLYGRAPH INSTRUMENT RECORD	BA-63	1		
AN/USS-2B	POLYGRAPH INSTRUMENT RECORD	BA-31 BA-63	1		9
AN/VDR-2	RADIAC SET	BA-3090/U	3	See Appendix B	5
AN/VRC-9	RADIO SET	BA-414/U	1		
AN/VRC-34	RADIO SET	BA-1293/U	1		
AN/VRC-53	RADIO SET	BA-1312/U	4		
AN/VRC-64	RADIO SET	BA-1312/U	4		
AN/VRC-91	RADIO SET	BA-5590/U	1	See Appendix B	
AN/VRQ-1	RADIO SET	BA-414/U	1		
AN/VRQ-3	RADIO ID SET	BA-414/U	1		
AN/VSC-2A	RADIO TT ST	BA-414/U	1		
AN/VSQ-1	RADIO SET	BA-1372/U		BA-5372/U	
AN/VVS-2(V1)	DRIVERS VIEWER, NIGHT VISION	BA-5567/U BA-414/U BA-419/U		28V Vehicle Power	
AN/VVS-2(V2)	DRIVERS VIEWER, NIGHT VISION	BA-5567/U		28V Vehicle Power	
AN/WIM-1		BA-833/U			11
AN/WLR-3(XN-1)	RECEIVING SET COUNTERMEASURES	BA-416/U			11
AN/WRN-6(V)		BA-3042/U			3,11
BAU-414A	BENCOM AIR	BA-1328/U			13
BC-376A	GENERATOR SIGNAL	BA-35			

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
BC-376B	GENERATOR SIGNAL	BA-35			
BC-376H	GENERATOR SIGNAL	BA-35			
BC-376M	GENERATOR SIGNAL	BA-35 BA-36	2 2		10 8
BC-906/C		BA-53 BA-35			11
	BINOCULAR, IR	BA-1110/U			
C-10377/GTC	COMSEC MODE SELECTOR CONTROL	BA-5590/U		See Appendix B	
CAM	CHEMICAL AGENT MONITOR	BA-5800/U	1		
CCFM-203		BA-1096/U			11
CCFM-502		BA-1096/U			11
CCTY-202B		BA-1096/U			11
	COMPACT LASER DEMONSTRATOR	BA-5590/U	3	See Appendix B	
CP-1995	COMPUTER, DIGITAL	BA-5800/U	1		
	DATA TRANSFER MODULE, P/O MAP DISPLAY GENERATOR	BA-5567/U	4		
	DETECTING SET, MINE PORTABLE	BA-1371/U BA-1389/U			12
DT-383/GSQ	DETECTOR-ANTI INTRUSION	BA-1546/U	1		10,12
DT-561/GSQ	MAGNETIC SENSOR	BA-5598/U		See Appendix B	
DT-562/GSQ	SEISMIC/ACOUSTIC SENSOR	BA-5598/U		See Appendix B	
DT-565/GSQ	IR SENSOR	BA-5598/U		See Appendix B	

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
	ESCAPE APPLIANCES (STEINKE HOOD)	BA-3030/U		See Appendix B	2,11
	GALVONOMETER	BA-26			11
GR-8		BA-59			
HONEST JOHN	MISSILE	BA-605/U			
HST-4C	*UHF SATCOM TRANSCEIVER*	*BA-5590/U*	*3*	*See Appendix B*	
IM-174/PD	RADIACMETER	BA-1318/U BA-1288/U	2 1	BA-1006/U	
IM-174A/PD	RADIACMETER	BA-1006/U BA-1318/U BA-1391/U BA-1396/U	2	See TM 11-6665-232	7
IM-174B/PD	RADIACMETER	BA-1318/U BA-1391/U BA-1006/U			7
KE-2	RECEIVER EQUIPMENT	BA-31			9
KE-7-1	CAMERA, STILL PICTURE	BA-261/U	2		10
KG-194A		BA-3090/U	1	See Appendix B	5
KS-14103L5	TEST SET	BA-27 BA-15A BA-804/U			13
KS-15-1	CAMERA SET, STILL PICTURE	BA-261/U	1		10
KS-15-3	CAMERA SET, STILL PICTURE	BA-261/U	1		10
KS-15-4	CAMERA SET	BA-261/U	1		10
KS-19B	CAMERA SET, STILL PICTURE	BA-1006/U BA-1312/U	1 1		
KS-4B	CAMERA SET, STILL PICTURE	BA-261/U			

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
KS-99C1	CAMERA SET, STILL PICTURE	BA-1006/U	4		
KY-913/PRC-112	PROGRAM LOADER	BA-5112/U	1		
KYK-13/TSEC	ELECTRICAL TRANSFER	BA-5372/U		BA-1372/U	11
LANCE/B	MISSILE	BA-630/U			
	LANTERN, ELECTRIC, 6U	BA-200/U			1,12
	LAV 25MM	BA-200/U			1,12
	LAV ANTI-TANK	BA-200/U			1,12
	LAV COMMAND & CONTROL	BA-200/U			1,12
	LAV LIGHT ASSAULT 25MM	BA-200/U			1,12
	LAV LOGISTICS	BA-200/U			1,12
	LAV MAINTENANCE/RECOVERY	BA-200/U			1,12
	LAV MORTAR	BA-200/U			1,12
	LENS HEAD	BA-3090/U			5,13
	LIFE BUOY ACCESSORIES	BA-803/U			11
	LIFE PRESERVER, CO2 INFLATION	BA-1574/U			11
	LIFE PRESERVERS	BA-3030/U			2,11
	LIGHT SNL	BA-207/U			11
LST-5B/C	LIGHT WEIGHT SATELLITE RADIO (SPECIAL OPERATIONS)	BA-5590/U		See Appendix B	
M8	ALARM, CHEMICAL AGENT	BA-3517/U	1		

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
M8-A1	ALARM, CHEMICAL AGENT	BA-3517/U	1	24V Vehicle Power using cable NSN 5995-01-333-0571	
M11	ALARM, CHEMICAL AGENT	BA-3517/U	1	24V Vehicle Power using cable NSN 5995-01-333-0571	
M21	REMOTE SENDING CHEMICAL AGENT ALARM	BA-5590/U		See Appendix B	
M-22 ACADA	AUTOMATIC CHEMICAL AGENT DETECTOR ALARM	BA-5590/U	2	See Appendix B	
M-23	MORTAR COMPUTER	BA-5588/U		See Appendix B	
M-43 (was XM43)	AVIATION CB MASK	BA-5093/U			
M-43A1	AVIATION CB MASK	BA-5557/U		See Appendix B	
M-60A1	TANK COMBAT FT 105MM GUN	BA-1318/U BA-1288/U			
M-91	MISSILE	BA-618/U			
M-101A1	HOWITZER, LIGHT TOWED, 105MM	BA-200/U			1
M-109A3	HOWITZER, MEDIUM, 155MM	BA-3042/U			3
M-192-I	LAUNCHER, ZERO LENGTH, GM HAWK	BA-1328/U			12
M-220E4	LAUNCHER, TUBULARY TOW	BA-5590/U		See Appendix B	12
M-816	TRUCK, WRECKER, 5 TON	BA-200/U			1,12
MAFIS-UFE	MOBILE AUTOMATED FIELD INSTRUMENT SYS	BA-5590/U	2	See Appendix B	
ME-9	MAINTENANCE EQUIPMENT	BA-3030/U BA-31			2 9

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
ME-74/U	VOLTMETER	BA-1006/U			11
ME-513/U	ELECTROMAGNETIC RADIATION METER	BA-1098/U	2		
	METER, NULL	BA-1090/U			13
	MINESWEEPING EQUIPMENT	BA-1574/U			11
MK10MOD0		BA-34			11
MK10MODS4T7	SSE GUIDED MISSILE LAUNCHING SYS	BA-1090/U		See Appendix B	11
MK15 MOD0	SSE PROJECTOR	BA-245/U		BA-2245/U (Cold Weather Only)	11
MK21MOD2	RANGE FINDER	BA-1100/U			11
MK30 MOD 0		BA-305/U			11
MK36MOD3	NIGHT VISION SIGHT	BA-1100/U			11
MK37MOD1		BA-1100/U			11
MK77MOD0		BA-1006/U			11
MK272MOD1	TEST SET	BA-3042/U		See Appendix B	3,11
MK576MOD0	IGNITER TEST SET	BA-1105/U			11
MSC-25		BA-5598/U			
MST-20 PLUS	MANPACK UHF SATELLITE TRANSCEIVER	BA-5590/U		See Appendix B	
MU-848/PSC-2	PROGRAM ENCRYPTIC DEVICE	BA-5600/U			11,12
MX-7301/TVN	LIGHT BEACON	BA-200/U			1
MX-9331	KY-57 RELAY	BA-5590/U		See Appendix B	
MX-989/PP	PHOTO ACCESSORY KIT	BA-261/U	1		10

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
NIKE 1A	MISSILE	BA-472/U			
NIKE B	MISSILE	BA-485/U			
NVTS	NO VOLTAGE TEST SET	BA-5567/U	4		
OA-1451/PRR	RECEIVER GROUP	BA-418/U	1		
OA-9141/TSM-170		BA-200/U			1,11
OA-9234/G		BA-200/U			1
OA-9263/GRC	MAINTENANCE GROUP	BA-5372/U	1	BA-1372/U	
OCD		BA-259/AM			
OD-144/GYK-29	BATTERY COMPUTER SYS GUN DISPLAY UNIT	BA-5590/U	2	See Appendix B	
OE-222/MSC	ANTENNA GROUP	BA-200/U	1		1
OE-239	REMBASS ANTENNA GROUP	BA-5590/U	1	See Appendix B	
OE-371/G	ANTENNA	BA-200/U			1
OE-4/GR	ANTENNA GROUP	BA-200/U			1
OE-8		BA-34			11
OK-398V1/TPQ	OPERATIONS CONTROL	BA-3042/U		See Appendix B	3
OL-200/GYK-29V	COMPUTER GROUP, GUN DIRECTOR	BA-5590/U	2	See Appendix B	
OQ-290(V)1/MSM	TEST FACILITY, ELECTRONIC EQUIPMENT (FOR M43 DETECTOR)	BA-3517/U	1		
OQ-290(V)1/MSM	TEST FACILITY, ELECTRONIC EQUIPMENT (FOR M42 ALARM)	BA-3030/U	1	See Appendix B	2
	ORDNANCE FOR SDVT	BA-305/U			11

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
PATRIOT	PATRIOT MEMORY BATTERY	BA-5372/U	1	BA-1372/U	
PERSHING	MISSILE	BA-486/U			
PM-15	CRYPTO TRANSMISSION UPGRADE MODEM	BA-5590/U		See Appendix B	
PM-15A	CRYPTO TRANSMISSION UPGRADE MODEM	BA-5590/U		See Appendix B	
	POLYGRAPH	BA-806/U BA-31 BA-65 BA-804/U			13
	POTENTIOMETER	BA-1098/U			11
PP-7286	BATTERY CHARGER	BA-3090/U			5,12
PP-990G	POWER SUPPLY	BA-200/U	10		1
R-2016/GSQ	RADIO FREQUENCY MONITOR	BA-5598/U	6	See Appendix B	13
R-520/URR	RECIEVER, RADIO	BA-407/U			
RBA-6	AIR FOIL IN	BA-1328/U			13
RBA-10	AIR FOIL IN	BA-1328/U			13
RBA-717A	AIR FOIL IN	BA-1328/U			13
RM-29/A	CONTROL TRANSMITTER	BA-27			
RT-10	RECEIVER, TRANSMITTER	BA-1387/U	1		
RT-196/PRC-6	RECEIVER, TRANSMITTER RADIO	BA-270/U			11
RT-246A/VRC	RECEIVER, TRANSMITTER	BA-3058/U		See Appendix B	4
RT-278/BURC-10A	RECEIVER, TRANSMITTER	BA-1387/U			13

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
RT-505/PRC-25	RECEIVER, TRANSMITTER	BA-4386/ PRC-25	1	BA-5598/U See Appendix B	
RT-524A/VRC	RECEIVER, TRANSMITTER	BA-3058/U	1	See Appendix B	4
RT-1175/GSQ	REMBASS, RADIO REPEATER, HAND EMPLACED	BA-5590/U		See Appendix B	
RT-1343/TSQ-129		BA-5590/U	1	See Appendix B	
RT-1476/ARC	RECEIVER, TRANSMITTER RADIO	BA-5372/U	5	BA-1372/U	
RT-1477/ARC	RECEIVER, TRANSMITTER RADIO	BA-5372/U	5	BA-1372/U	
RT-1478/ARC	RECEIVER, TRANSMITTER RADIO	BA-5372/U	6	BA-1372/U	
RT-1539 PAC/G	RECEIVER, TRANSMITTER	BA-1318/U			
SB-22/PT	SWITCHBOARD TELEPHONE MANUAL	BA-3030/U	4	See Appendix B	2
SB-86	SWITCHBOARD TELEPHONE MANUAL	BA-2 BA-200/U	1 10		9 1
SB-867A/FQQ		BA-15A			11
SCF-291		BA-53			11
SCR-502		BA-53			11
SCR-609A		BA-41			11
SCR-610		BA-41			11
SCR-610A		BA-41			11
SDU-5/E	DISTRESS MARKER LIGHT	BA-1574/U	1		

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
SG-886T/UR	GENERATOR, INTERFERENCE	BA-1363/U	1		
	SHOP SET, MAINTENANCE ARTILLERY	BA-200/U			1,12
	SIDEWINDER MISSILE TESTER I.R. SOURCE	BA-3058/U		See Appendix B	4,11
	SIDEWINDER TEST SET	BA-1006/U			11
	SPARROW MISSILE GROUND SUPPORT	BA-36			8,11
STAJ	SHORT TERM ANTI-JAM HIGH FREQUENCY RADIO	BA-5567/U			
	SUBROC CALIBRATION EQUIPMENT	BA-15A			11
	SURVEY SET, ARTILLERY	BA-3090/U BA-3042/U BA-3058/U		 See Appendix B	5,12 3 11
	SURVEY SET, ARTILLERY (RGT)	BA-3090/U BA-3042/U BA-3058/U		 See Appendix B	5,12 3 11
	SWITCHBOARD IC	BA-207/U			11
SYX-15/TSEC		BA-5372/U		BA-1372/U	11
T-616/SRT	BUOY RADIO TRANSMITTER	BA-804/U			11
TA-207	SWITCHBOARD SIGNAL ASSEMBLY	BA-2			9
TA-264	TELEPHONE SET	BA-2	4		9
TA-341/TT	TELEPHONE SET	BA-3042/U	4	See Appendix B	3
TBX-2		BA-35 BA-33			11

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
TE-44	TOOL EQUIPMENT, WESTON 564-3C	BA-31	1		9
	TEMPERATURE POTENTIOMETER	BA-26			11
	TOOL KIT, FM, EOD SQUAD	BA-200/U			1,12
	TOOL KIT, GM, ELECTRONIC, REPAIR	BA-3058/U		See Appendix B	4,12
	TOOL SET, FIELD OPERATIONS	BA-245/U		BA-2245/U (Cold Weather Only)	12
	TRANSISTOR TESTER 219C(94668)	BA-1111/U			11
TS-27B/TSM	TEST SET, TP	BA-63	2		
TS-107/TPM-1	TEST SET RADAR	BA-27			11
TS-107A/TPM-1	TEST SET RADIO FREQUENCY POWER	BA-210/U			11
TS-257A/ARW	TEST SET, RADIO	BA-210/U	1		10
TS-261/TSM	TEST SET	BA-59			
TS-297/U	MULTIMETER	BA-3042/U	1	See Appendix B	3
TS-314		BA-31			9,11
TS-352/U	MULTIMETER	BA-31	3		9
TS-380	MULTIMETER	BA-31	1		9
TS-508/UP	SIGNAL GENERATOR	BA-205/U			11
TS-559/FT	TEST SET, TELEPHONE	BA-2	6		9
TS-563	WIRING TEST SET	BA-36	1		8
TS-682/GSM	TEST SET, ELECTRICAL METER	BA-31	3	See TM 11-6625-277	9

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
TS-816/U	TEST SET, TP	BA-63 BA-15A BA-27 BA-804/U	15 1 2		9
TS-1836A/U	TEST SET	BA-1086/U BA-3058/U	1 5	See Appendix B	4
TS-4161/P	MONITOR UNIT, RF	BA-5599/U			12
TSEC/HYX-57	SPEECH SECURITY EQUIPMENT (REMOTE)	BA-5590/U		See Appendix B	
TSEC/KG-84	SPEECH SECURITY	BA-5372/U		BA-1372/U	11
TSEC/KOI-18	COMSEC FILL DEVICE	BA-5372/U		BA-1372/U	
TSEC/KOK-12	KEYING DEVICE, PROGRAMMABLE, HANDHELD	BA-5567/U	2		
TSEC/KYK-13	COMSEC FILL DEVICE	BA-5372/U	1	BA-1372/U	
TSEC/KYX-15	COMSEC FILL DEVICE	BA-5372/U	1	BA-1372/U	
TSEC/KYX-15A	COMSEC FILL DEVICE	BA-5372/U	1	BA-1372/U	
TSEC/KY-38	COMMUNICATION SECURE RADIO SET	BA-5598/U		See Appendix B	
TSEC/KY-57	VINSON	BA-5590/U BA-5372/U	1 1	See Appendix B BA-1372/U	
TSEC/KY-58	CRYTOGRAPHICS	BA-5372/U		BA-1372/U	11
TSEC/KY-65	PARKHILL	BA-5598/U BA-5372/U		See Appendix B BA-1372/U	
TSEC/KY-67	BANCROFT	BA-5590/U		See Appendix B	
TSEC/KY-68	COMSEC DEVICE	BA-5372/U	1	BA-1372/U	
TSEC/KY-75A	CRYTOGRAPHICS	BA-5372/U		BA-1372/U	11

Table 1-1.
Primary Battery Using Equipment

TYPE	DESCRIPTION	BATTERY TYPE NO.	NO. IN USE	ALTERNATE SOURCES	NOTE
TV-6/U	TEST SET, ELECTRONIC	BA-34	7		9
	VIBRATION METER X ACCURACY	BA-1093/U			11
	WATER PURIFICATION UNIT	BA-3090/U			5,12

Table 1-2.
Primary Battery to End Item Cross-Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-2	Appendix A, Note 9	6135-00-120-1028	AN/BQH-2 AN/BQH-2C AN/BQH-2D AN/GRC-9A AN/GSQ-135 AN/MTC-7 AN/MTC-10 SB-86 TA-207 TA-264 TS-559/FT
BA-9	Appendix A, Note 9	6135-00-120-1026	
BA-15A		6135-00-120-1025	KS-14103L5 SB-867A/FQQ SUBROC CALIBRATION EQUIPMENT TS-816/U
BA-26	Appendix A, Note 9	6135-00-120-1023	AN/GTC-1 AN/PTM-6 GALVONOMETER TEMPERATURE POTENTIOMETER
BA-27	Appendix A, Note 9	6135-00-120-1022	AN/GTC-1 KS-14103L5 RM-29/A TS-107/TPM-1 TS-816/U
BA-28	Appendix A, Note 9	6135-00-120-1021	
BA-31	Appendix A, Note 9	6135-00-120-1019	AM-1301/SIC AN/GRC-26A AN/GRC-26B AN/GRC-26C AN/GRC-41 AN/PRM-1A AN/PRM-1B AN/USS-2B KE-2 ME-9 POLYGRAPH

Table 1–2.
Primary Battery to End Item Cross–Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-31 (con't)			TE-44 TS-314 TS-352/U TS-380 TS-682/GSM
BA-33	Appendix A, Note 10	6135-00-120-1018	AN/BQC-1 AN/PQS-1 TBX-2
BA-34	Appendix A, Note 9	6135-00-120-1017	AN/BQC-1 AN/GTC-1 MK10MOD0 OE-8 TV-6/U
BA-35	Appendix A, Note 10	6135-00-120-1016	AN/BQC-1 AN/PRM-1A AN/PRM-1B BC-376A BC-376B BC-376H BC-376M BC-906/C TBX-2
BA-36	Appendix A, Note 8	6135-00-120-1015	AN/PRM-1A AN/PRM-1B AN/SRA-56 BC-376M SPARROW MISSILE GROUND SUPPORT TS-563
BA-38	Appendix A, Note 9	6135-00-120-1013	
BA-41	Appendix A, Note 10	6135-00-107-6662	SCR-609A SCR-610 SCR-610A
BA-48	Appendix A. Note 9	6135-00-120-1007	AN/GRC-9 AN/GRC-9A AN/GRC-87 (12V) AN/GRC-87 (24V)

Table 1-2.
Primary Battery to End Item Cross-Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-53	Appendix A, Note 9	6135-00-120-1004	AN/PRS-1 BC-906/C SCF-291 SCR-502
BA-56	Appendix A, Note 10	6135-00-120-1003	412(80468)
BA-59	Appendix A, Note 10	6135-00-120-1032	AN/BQH-2 AN/BQH-2A AN/BQH-2B AN/PRC-29 GR-8 TS-261/TSM
BA-63	Appendix A, Note 10	6135-00-178-9506	AN/URD-2 AN/URD-2A AN/USS-2A AN/USS-2B TS-27B/TSM TS-816/U
BA-65	Appendix A, Note 9	6135-00-120-1034	AN/PRC-29 AN/URD-2 AN/URD-2A POLYGRAPH
BA-126	Appendix A, Note 10	6135-00-100-0469	
BA-200/U	Appendix A, Note 1	6135-00-050-3280	AAVP7A1 AAVR7A1 AN/GSC-52(V1) AN/GSC-52(V2) AN/MLQ-36 AN/MTC-7 AN/MTC-10 AN/SPN-35A AN/TCC-29 AN/TRQ-23 AN/TSC-95 LANTERN, ELECTRIC, 6U LAV 25MM LAV ANTI-TANK LAV COMMAND & CONTROL

Table 1–2.
Primary Battery to End Item Cross–Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-200/U (con't)			LAV LIGHT ASSAULT 25MM LAV LOGISTICS LAV MAINTENANCE/RECOVERY LAV MORTAR M-101A1 M-816 MX-7301/TVN OA-9141/TSM-170 OA-9234/G OE-222/MSC OE-371/G OE-4/GR PP-990G SB-86 SHOP SET, MAINTENANCE ARTILLERY TOOL KIT, FM, EOD SQUAD
BA-203/U	Appendix A, Note 9	6135-00-100-0420	AN/BQC-1B AN/BQQ-6 AN/FQM-1
BA-205/U	Appendix A, Note 9	6135-00-100-0423	AN/UPM-46 TS-508/UP
BA-207/U	Appendix A, Note 10	6135-00-100-0425	AN/PIQ-5A AN/PVQ-1 LIGHT SNL SWITCHBOARD IC
BA-208/U	Appendix A, Note 10	6135-00-100-0426	
BA-210/U	Appendix A, Note 10	6135-00-100-0475	AN/PRC-61 AN/PTM-6 AN/TYA-12 AN/TYQ-2 TS-107A/TPM-1 TS-257A/ARW
BA-211/U	Appendix A, Note 10	6135-00-100-0474	
BA-222/U	Appendix A, Note 9	6135-00-100-0465	2624(95411)
BA-223/U	Appendix A, Note 10	6135-00-100-0464	

Table 1–2.
Primary Battery to End Item Cross–Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-225/U	Appendix A, Note 10	6135-00-100-0462	
BA-228/U	Appendix A, Note 9	6135-00-100-0460	2F56
BA-231/U	Appendix A, Note 9	6135-00-100-0458	
BA-232/U	Appendix A, Note 10	6135-00-100-0457	
BA-245/U	Appendix A, Note 10	6135-00-128-1632	AN/USM-90 MK15 MOD0 TOOL SET, FIELD OPERATIONS
BA-259/AM	Appendix A, Note 9	6135-00-635-6370	AN/TMQ-4 AN/TMQ-31 OCD
BA-261/U	Appendix A, Note 10	6135-00-160-7159	AN/PAR-1 AN/PMQ-6 AN/PMQ-6A AN/PSM-4 AN/PSM-4A AN/PSM-4B AN/PSM-4C AN/PTM-5 AN/URM-105C AN/USM-319A KE-7-1 KS-15-1 KS-15-3 KS-15-4 KS-4B MX-989/PP
BA-270/U	Appendix A, Note 10	6135-00-194-9352	AN/PRC-6 RT-196/PRC-6
BA-279/U	Appendix A, Note 9	6135-00-240-3200	AN/PRC-8 AN/PRC-9 AN/PRC-9A AN/PRC-10 AN/PRC-10A
BA-291/U	Appendix A, Note 10	6135-00-112-8635	

Table 1–2.
Primary Battery to End Item Cross–Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-305/U	Appendix A, Note 10	6135-00-112-8637	MK30 MOD 0 ORDNANCE FOR SDVT
BA-331/U	Appendix A, Note 10	6135-00-112-8634	AN/PDR-49
BA-332/U		6135-00-221-4720	
BA-333/U	Appendix A, Note 9	6135-00-221-4719	AN/PSQ-1A
BA-334/U	Appendix A, Note 10	6135-00-221-4688	
BA-358/U	Appendix A, Note 10	6135-00-577-3340	
BA-399/U	Appendix A, Note 10	6135-00-926-0845	AN/PRT-4 AN/PRT-4A
BA-401/U	Appendix A, Note 9	6135-00-164-8753	AN/PDR-27A AN/PIQ-1
BA-407/U	Appendix A, Note 10	6135-00-164-8776	R-520/URR
BA-408/U	Appendix A, Note 10	6135-00-164-8775	AN/TRQ-23
BA-409/U	Appendix A, Note 9	6135-00-164-8774	AN/UMQ-4
BA-410/U	Appendix A, Note 9	6135-00-164-8773	AN/UIH-4
BA-411/U	Appendix A, Note 10	6135-00-164-8766	
BA-413/U	Appendix A, Note 9	6135-00-164-8754	AN/PDR-27A AN/PDR-27C2
BA-414/U	Appendix A, Note 9	6135-00-125-5256	AN/GRA-6 AN/GRC-122C AN/GRC-142A AN/GRC-142B AN/TMQ-31 AN/TRC-68 AN/TRC-68A AN/TYA-12 AN/TYQ-2 AN/VRC-9 AN/VRQ-1 AN/VRQ-3

Table 1–2.
Primary Battery to End Item Cross–Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA–414/U (con't)			AN/VSC–2A AN/VVS–2(V1)
BA–416/U	Appendix A, Note 10	6135–00–164–8768	AN/PDR–27A AN/PMQ–6 AN/PMQ–6A AN/WLR–3(XN–1)
BA–417/U	Appendix A, Note 10	6135–00–164–8756	
BA–418/U	Appendix A, Note 10	6135–00–164–8757	OA–1451/PRR
BA–419/U	Appendix A, Note 9	6135–00–125–5257	AM–4872/FRC–136 AN/SAR–6 AN/URM–32 AN/URM–32A AN/USM–88 AN/VVS–2(V1)
BA–420/U	Appendix A, Note 10	6135–00–164–8758	
BA–422/U	Appendix A, Note 9	6135–00–164–8760	
BA–472/U		6135–00–823–3034	NIKE 1A
BA–485/U		6135–00–837–5331	NIKE B
BA–486/U		6135–00–889–1502	PERSHING
BA–505/U		6135–00–926–0844	AN/PRR–9
BA–605/U		6135–00–546–6273	HONEST JOHN
BA–618/U		6135–00–603–4859	M–91
BA–630/U		6135–00–237–1703	LANCE/B
BA–801/U			
BA–802/U	Appendix A, Note 10	6135–00–100–0402	AN/BQH–2 AN/BQR–2C AN/BQS–4B
BA–803/U	Appendix A, Note 10	6135–00–100–0413	LIFE BUOY ACCESSORIES

Table 1-2.
Primary Battery to End Item Cross-Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-804/U	Appendix A, Note 10	6135-00-178-9527	AN/TSM-126 AN/TSM-126A KS-14103L5 POLYGRAPH T-616/SRT TS-816/U
BA-806/U	Appendix A, Note 10	6135-00-100-0385	POLYGRAPH
BA-808/U	Appendix A, Note 10	6135-00-100-0387	
BA-809/U	Appendix A, Note 10	6135-00-100-0392	
BA-811/U	Appendix A, Note 10	6135-00-100-0399	
BA-818/U	Appendix A, Note 10	6135-00-100-0415	
BA-823/U	Appendix A, Note 10	6135-00-112-8636	AN/PAR-1
BA-833/U	Appendix A, Note 10	6135-00-683-0536	AN/PRC-39 AN/PRC-40 AN/WIM-1
BA-834/U	Appendix A, Note 9	6135-00-816-6206	
BA-1006/U		6135-00-299-6918	AN/PQS-1(XN-1) IM-174/PD IM-174A/PD IM-174B/PD KS-19B KS-99C1 ME-74/U MK77MOD0 SIDEWINDER TEST SET
BA-1010/U		6135-00-010-5275	
BA-1030/U		6135-00-125-5265	AN/PRD-54 AN/SAR-6 AN/TAQ-1 AN/TPS-56B AN/USM-88

Table 1-2.
Primary Battery to End Item Cross-Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-1082/U		6135-00-985-7887	AN/PDR-60
BA-1083/U		6135-00-557-0174	
BA-1085/U		6135-00-295-2613	
BA-1086/U		6135-00-473-6278	TS-1836A/U
BA-1087/U		6135-00-473-6279	AN/ARM-164
BA-1090/U		6135-00-835-1023	AN/GSQ-151(V1) METER, NULL MK10MODS4T7
BA-1092/U		6135-00-578-6901	
BA-1093/U		6135-00-808-5093	VIBRATION METER X ACCURACY
BA-1094/U		6135-00-010-5255	AN/MGC-22
BA-1096/U		6135-00-445-2787	CCFM-203 CCFM-502 CCTY-202B
BA-1098/U		6135-00-556-8318	ME-513/U POTENTIOMETER
BA-1100/U		6135-00-926-0827	AN/AAM-56 AN/PVS-1 AN/PVS-2 AN/PVS-2A AN/PVS-2B AN/TVS-2 AN/TVS-2A AN/TVS-2B AN/TVS-4A AN/TVS-4B MK21MOD2 MK36MOD3 MK37MOD1
BA-1101/U		6135-00-164-8772	
BA-1105/U		6135-00-725-3941	MK576MOD0

Table 1–2.
Primary Battery to End Item Cross–Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA–1106/U		6135–00–683–0812	AN/URM–93
BA–1110/U		6135–00–906–0984	BINOCULAR, IR
BA–1111/U		6135–00–935–8769	TRANSISTOR TESTER 219C(94668)
BA–1234/U		6135–00–160–7158	
BA–1264/U		6135–00–548–2765	AN/URC–4
BA–1278/U		6135–00–194–9353	
BA–1288/U		6135–00–266–9762	AN/PDR–10 AN/PDR–56G AN/PDR–56H IM–174/PD M–60A1
BA–1293/U		6135–00–271–0407	AN/GRC–9 AN/VRC–34
BA–1312/U		6135–00–269–5843	AN/PAS–5 AN/PAS–6 AN/PDR–10 AN/PQS–1(XN–1) AN/USM–223 AN/VRC–53 AN/VRC–64 KS–19B
BA–1315/U		6135–00–295–0608	
BA–1318/U		6135–00–295–2619	AN/PDR–56G AN/PDR–56H AN/TRC–191A IM–174/PD IM–174A/PD IM–174B/PD M–60A1 RT–1539PAC/G
BA–1328/U		6135–00–274–4035	AAVR7A1 AN/ASH–20

Table 1-2.
Primary Battery to End Item Cross-Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-1328/U (con't)			AN/GSA-132A
			AN/MPQ-50
			AN/MPQ-61
			AN/MPQ-62
			AN/PSM-6
			AN/PSM-6A
			AN/TSW-13
			AN/USM-21
			AN/USM-21A
			BAU-414A
			M-192-I
			RBA-6
			RBA-10
			RBA-717A
BA-1330/U		6135-00-295-2614	AN/PDR-54
			AN/PSM-68
BA-1363/U		6135-00-577-8309	AN/PSM-6
			SG-886T/UR
BA-1371/U		6135-00-845-9232	DETECTING SET, MINE PORTABLE
BA-1372/U	Same As BA-5372/U	6135-00-801-3493	AN/GRC-210
			AN/PRC-119
			AN/PSQ-4
			AN/VSQ-1
			KYK-13/TSEC
			OA-9263/GRC
			PATRIOT
			RT-1476/ARC
			RT-1477/ARC
			RT-1478/ARC
			SYX-15/TSEC
			TSEC/KG-84
			TSEC/KOI-18
			TSEC/KYK-13
			TSEC/KYX-15
			TSEC/KYX-15A
			TSEC/KY-57
			TSEC/KY-58
			TSEC/KY-65
			TSEC/KY-68
			TSEC/KY-75A

Table 1–2.
Primary Battery to End Item Cross–Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA–1373/U		6135–00–715–4001	AN/DSM–78 AN/MGC–17 AN/TGC–38
BA–1387/U		6135–00–889–1485	RT–10 RT–278/BURC–10A
BA–1389/U		6135–00–961–3603	AN/PSS–11 DETECTING SET, MINE PORTABLE
BA–1391/U	Obsolete	6135–00–935–2532	IM–174A/PD IM–174B/PD
BA–1393/U	Appendix A, Note 10	6135–00–054–7132	
BA–1396/U		6135–00–935–2533	IM–174A/PD
BA–1400/U		6135–00–135–0194	
BA–1425/U		6135–00–669–6679	
BA–1499/U		6135–00–803–3012	
BA–1516/U		6135–00–102–4217	
BA–1533/U		6135–00–056–7612	
BA–1542/U	Appendix A, Note 10	6135–00–459–3322	AN/GRQ–21 AN/GSQ–176
BA–1544/U	Appendix A, Note 10	6135–00–459–3323	AN/GRQ–21
BA–1546/U	Appendix A, Note 10	6135–00–182–7926	AN/GSQ–154 AN/GSQ–171 DT–383/GSQ
BA–1568/U		6135–00–838–0706	AN/PRC–90 AN/PRC–90–2
BA–1574/U		6135–00–073–8939	LIFE PRESERVER, CO2 INFLATION MINESWEEPING EQUIPMENT SDU–5/E

Table 1–2.
Primary Battery to End Item Cross–Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-1844/U		6135-00-461-3590	AN/PRS-7 AN/TRS-7
BA-2245/U		6135-00-833-9909	AN/USM-90 MK15 MOD0 TOOL SET, FIELD OPERATIONS
BA-3030/U	Appendix A, Note 2	6135-00-930-0030	AN/ASM-189C AN/ASM-190A AN/GRA-39 AN/GRA-39B AN/MTC-7 AN/MTC-10 ESCAPE APPLIANCES (STEINKE HOOD) LIFE PRESERVERS ME-9 OQ-290(V)1/MSM SB-22/PT
BA-3036/U	Appendix A, Note 8	6135-00-935-2589	
BA-3042/U	Appendix A, Note 3	6135-00-935-5301	AN/ALM-154 AN/ASN-149 AN/SLQ-48 AN/TTC-38(V)2 AN/TYA-28 AN/USM-223 AN/WRN-6(V) M-109A3 MK272MOD1 OK-398V1/TPQ SURVEY SET, ARTILLERY SURVEY SET, ARTILLERY (RGT) TA-341/TT TS-297/U
BA-3051/U		6135-00-935-2582	
BA-3058/U	Appendix A, Note 4	6135-00-935-2587	AN/AVS-6 AN/DSM-76 AN/GSQ-80A AN/MGC-19

Table 1–2.
Primary Battery to End Item Cross–Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA–3058/U (con't)			AN/MLQ–36 AN/PAQ–4A AN/PDR–63 AN/PRM–1A AN/PRM–1B AN/PSM–37( ) AN/PTM–5 AN/PVS–4 AN/PVS–5B AN/PVS–5C AN/PVS–7A AN/PVS–7B AN/TGC–30A AN/TNH–23 AN/TNH–23A AN/TRC–145A AN/TVS–5 AN/URM–105C RT–246A/VRC RT–524A/VRC SIDEWINDER MISSILE TESTER I.R. SOURCE SURVEY SET, ARTILLERY SURVEY SET, ARTILLERY (RGT) TOOL KIT, GM, ELECTRONIC, REPAIR TS–1836A/U
BA–3090/U	Appendix A, Note 5	6135–01–063–1978	AN/BSY–1(16848) AN/CYZ–10 AN/GSQ–151(V1) AN/MGC–9A AN/PSM–45A AN/SLQ–48 AN/TCC–72A AN/TRS–2(V) AN/VDR–2 KG–194A LENS HEAD PP–7286 SURVEY SET, ARTILLERY

Table 1-2.
Primary Battery to End Item Cross-Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-3090/U (con't)			SURVEY SET, ARTILLERY (RGT) WATER PURIFICATION UNIT
BA-3517/U		6135-00-450-3528	M8 M8-A1 M11 OQ-290(V)1/MSM
BA-4386/PRC-25	Same As BA-5598/U	6135-00-926-8322	AN/GRA-114 AN/PPS-15(V)2 AN/PRC-25 AN/PRC-74 AN/PRC-77 AN/PRD-10 AN/PRD-11 AN/PSN-6 AN/URR-69 AN/USA-32 AN/USQ-46 RT-505/PRC-25
BA-4840/U		6135-01-015-1223	AN/TRN-30(V)1
BA-5093/U		6135-01-216-9771	M-43 (was XM43)
BA-5112/U		6135-01-235-4168	AN/PRC-112 KY-913/PRC-112
BA-5372/U		6135-01-214-6441	AN/GRC-210 AN/PRC-119 AN/PSQ-4 AN/VSQ-1 KYK-13/TSEC OA-9263/GRC PATRIOT RT-1476/ARC RT-1477/ARC RT-1478/ARC SYX-15/TSEC TSEC/KG-84 TSEC/KOI-18 TSEC/KYK-13 TSEC/KYX-15 TSEC/KYX-15A

Table 1–2.
Primary Battery to End Item Cross–Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-5372/U (con't)			TSEC/KY-57 TSEC/KY-58 TSEC/KY-65 TSEC/KY-68 TSEC/KY-75A
BA-5557/U	Appendix B	6135-01-088-2707	AN/GMQ-33 AN/PSG-2A AN/PSG-2B AN/PSG-5 AN/TMQ-34 M-43A1
BA-5567/U		6135-01-090-5365	AN/AVS-6 AN/PAQ-4 AN/PAQ-4A AN/PVS-X AN/PVS-4 AN/PVS-5A AN/PVS-5B AN/PVS-5C AN/PVS-7A AN/PVS-7B AN/TVS-5 AN/VVS-2(V1) AN/VVS-2(V2) DATA TRANSFER MODULE, P/O MAP DISPLAY GENERATOR NVTS STAJ TSEC/KOK-12
BA-5588/U	Appendix B	6135-01-088-2708	AERP AN/PRC-68 AN/PRC-68A AN/PRC-126 AN/PRC-128 M-23
BA-5590/U	Appendix B	6135-01-036-3495	AN/GRC-213 AN/GSQ-187 AN/GYK-29 AN/PDR-75 AN/PIH-1

Table 1-2.
Primary Battery to End Item Cross-Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-5590/U (con't)			AN/PPN-19(V1)
			AN/PPN-19(V2)
			AN/PRC-104
			AN/PRC-104A
			AN/PRC-104B
			AN/PRC-113
			AN/PRC-119
			AN/PRC-132
			AN/PSC-3
			AN/PSN-8
			AN/PSQ-4
			AN/TAS-4A
			AN/TAS-6A
			AN/TSQ-129A
			AN/UAS-12A
			AN/UIH-6
			AN/UIH-6A
			AN/URC-100
			AN/URC-101
			AN/URC-110
			AN/URC-112
			AN/VRC-91
			C-10377/GTC
			COMPACT LASER DEMONSTRATOR
			HST-4C
			LST-5B/C
			M21
			M-22 ACADA
			M-220E4
			MAFIS-UFE
			MST-20 PLUS
			MX-9331
			OD-144/GYK-29
			OE-239
			OL-200/GYK-29V
			PM-15
			PM-15A
			RT-1175/GSQ
			RT-1343/TSQ-129
			TSEC/HYX-57
			TSEC/KY-57
			TSEC/KY-67

Table 1-2.
Primary Battery to End Item Cross-Reference

MIL/MFR PART NUMBER	NOTE	NATIONAL STOCK NUMBER	END ITEM/ COMPONENT
BA-5598/U	Appendix B	6135-01-034-2239	AN/GRA-114 AN/GRC-122C AN/GRQ-26 AN/MSC-25 AN/PPS-15B AN/PRC-25 AN/PRC-74 AN/PRC-77 AN/PRD-10 AN/PRD-11 AN/UGC-74 AN/UGC-74A AN/UGC-74B AN/USQ-46 DT-561/GSQ DT-562/GSQ DT-565/GSQ MSC-25 R-2016/GSQ RT-505/PRC-25 TSEC/KY-38 TSEC/KY-65
BA-5599/U		6135-01-069-8575	4131 AN/PAS-7A TS-4161/P
BA-5600/U		6135-01-168-2944	AN/MLQ-36 AN/PSC-2 MU-848/PSC-2
BA-5800/U		6665-99-760-9742	AN/PSN-10 CAM CP-1995
BA-5847/U		6135-01-090-5364	AN/PRM-34

Table 1-3.
Technical Characteristics

MIL/MFR PART NO.	NOTE	TERMINAL TYPE	NOMINAL VOLTAGE (VOLTS)	TERMINAL VOLTAGE TAP A	TAP B	TAP C	TAP D	TAP E	NOMINAL DIMENSIONS (IN) L	W	OVRL HGT	BODY HGT
BA-2	9	Wire lead	22.5	22.5					3.44	2.03	2.59	2.59
BA-9	9	Flat spring	4.5	4.5					2.44	0.81	3.13	2.72
BA-15A		Stud & nut	1.5	1.5					2.63	1.31	4.50	4.00
BA-26	9	Spring clip	45.0	22.5	45.0				8.13	4.38	7.94	7.25
BA-27	9	Stud & nut	-4.5	-1.5	-3.0	-4.5			4.00	1.44	3.56	3.06
BA-28	9	Flat spring	4.5	4.5					1.97	0.66	2.68	2.25
BA-31	9	Stud & nut	4.5	4.5					2.44	0.81	3.16	2.69
BA-33	10	Stud & nut	135.0	45.0	135.0				6.13	3.50	5.78	5.06
BA-34	9	Stud & nut	-7.5	-1.5	-3.0	-4.5	-6.0	-7.5	4.06	0.88	3.31	2.81
BA-35	10	Stud & nut	1.5	1.5					2.63	2.63	4.50	4.00
BA-36	8	Stud & nut	45.0	22.5	45.0				4.19	2.50	6.50	5.81
BA-38	9	Flat surface	103.5	103.5					1.34	1.34	11.69	11.56
BA-41	10	5-hole socket	60.0	4.5	25.5	60.0			2.31	2.06	3.44	3.44
BA-48	9	4-hole socket	90.0	1.5	90.0				9.94	2.19	4.81	4.81
BA-53	9	Stud & nut	45.0	22.5	45.0				3.00	1.88	5.22	4.56
BA-56	10	Snap fasteners	45.0	45.0					2.59	0.94	3.63	3.53
BA-59		5-hole socket	45.0	45.0					3.50	1.72	5.44	5.44
BA-63	10	5-hole socket	45.0	22.5	45.0				2.94	2.25	4.06	4.13
BA-65	9	2-hole socket	1.5	1.5					2.63	2.63	4.00	4.00
BA-126	10		90.0	3.0	90.0							
BA-200/U	1	2-Coil Springs	6.0						2.63	2.63	4.25	3.81

*Diameter

Table 1–3.
Technical Characteristics

MIL/MFR PART NO.	NOTE	TERMINAL TYPE	NOMINAL VOLTAGE (VOLTS)	TERMINAL VOLTAGE TAP A	TAP B	TAP C	TAP D	TAP E	NOMINAL DIMENSIONS (IN) L	W	OVRL HGT	BODY HGT
BA-203/U	9	2-hole socket	6.0	6.0					3.88	2.72	5.50	5.50
BA-205/U	9	Stud & nut	3.0	3.0					2.63	1.31	4.66	3.94
BA-207/U	10	Stud & nut	9.0						8.50	4.00	6.53	5.88
BA-208/U	10	Flat springs	3.0	3.0					1.38	0.69	2.50	2.25
BA-210/U		2-hole socket	6.0	6.0					2.63	2.63	4.00	4.00
BA-211/U	10	5-hole socket	-22.5	-3.0	-4.5	-16.5			4.06	2.53	2.94	2.94
BA-222/U	9	Stud & nut	6.0	6.0					8.19	2.69	6.41	5.75
BA-223/U	10	5 pin connector	45.0	22.5	45.0				4.06	2.56	5.31	3.75
BA-225/U	10	Spring clip		3.0					3.88	2.63	6.13	5.50
BA-228/U	9	Stud & nut	45.0	22.5	45.0				2.94	1.25	4.41	3.75
BA-231/U	9	2-hole socket		1.5					----	1.31 *	4.06	3.97
BA-232/U	10	3-hole socket	22.5	22.5					1.56	1.31	2.94	2.94
BA-245/U	10	Stud & nut	0.9						----	0.75 *	2.49	2.49
BA-259/AM	9	5-hole socket	115.0	6.0	1.5				4.00	4.63	2.38	2.38
BA-261/U		Flat surface	22.5						0.59	1.00	1.94	1.75
BA-270/U		7-hole socket	90.0	1.5	45.0	90.0	-4.5		2.75	2.56	7.31	7.31
BA-279/U	9	8-hole socket	135.0	1.5	67.5	135.0	-6.0		8.31	2.31	8.31	8.31
BA-291/U	10	2-hole socket	300.0						2.16	2.63	3.84	3.75
BA-305/U	10	Flat surface	30.0						0.59	1.00	2.50	2.38
BA-331/U		Flat surface	15.0						0.59	1.00	1.41	1.22

*Diameter

Table 1-3.
Technical Characteristics

MIL/MFR PART NO.	NOTE	TERMINAL TYPE	NOMINAL VOLTAGE (VOLTS)	TERMINAL VOLTAGE TAP A	TAP B	TAP C	TAP D	TAP E	NOMINAL DIMENSIONS (IN) L	W	OVRL HGT	BODY HGT
BA-332/U		Flat surface	15.0						0.59	0.59	1.34	1.33
BA-333/U	9	Flat surface	22.5						0.59	0.59	1.94	1.94
BA-334/U	10	Flat surface	30.0	30.0					1.17	0.59	1.45	1.40
BA-358/U		9-hole socket	135.0	1.5	-6.0	45.0	67.5	135.0	8.75	2.69	4.50	4.50
BA-399/U		4-hole socket	15.0	15.0					3.13	1.31	1.94	3.13
BA-401/U		Flat surface	1.5	1.5					----	1.31 *	3.56	3.44
BA-407/U	10	8-hole socket	3.0	3.0	1.5				2.63	1.38	4.50	4.50
BA-408/U	10	8-hole socket	6.0	6.0	4.5	3.0	1.5		2.63	2.63	3.19	3.19
BA-409/U	9	8-hole socket	6.0	6.0	4.5	3.0	1.5		2.63	2.63	4.50	4.50
BA-410/U	9	8-hole socket	6.0	6.0	4.5	3.0	1.5		5.25	2.69	4.50	4.50
BA-411/U	10	8-hole socket	6.0	6.0	4.5	3.0	1.5		5.38	3.88	6.00	6.00
BA-413/U	9	8-hole socket	22.5	22.5					1.56	1.44	3.25	3.25
BA-414/U	9	8-hole socket	45.0	22.5	45.0				2.94	1.44	3.25	3.25
BA-416/U		8-hole socket	135.0	22.5	45.0	67.5	90.0	135.0	4.13	2.88	3.25	3.25
BA-417/U	10	8-hole socket	22.5	22.5					2.38	2.25	4.13	4.13
BA-418/U	10	8-hole socket	45.0	22.5	45.0				4.19	2.31	4.13	4.13
BA-419/U	9	8-hole socket	90.0	22.5	45.0	67.5	90.0		7.63	2.31	4.13	4.13
BA-420/U	10	8-hole socket	135.0	22.5	45.0	67.5	90.0	135.0	6.63	4.38	4.13	4.13
BA-422/U	9	8-hole socket	45.0	22.5	45.0				4.16	2.56	5.58	5.56
BA-472/U	10	2-hole socket	31.6						8.12	3.97	6.81	6.81

*Diameter

Table 1-3.
Technical Characteristics

MIL/MFR PART NO.	NOTE	TERMINAL TYPE	NOMINAL VOLTAGE (VOLTS)	TERMINAL VOLTAGE TAP A	TAP B	TAP C	TAP D	TAP E	NOMINAL DIMENSIONS (IN) L	W	OVRL HGT	BODY HGT
BA-485/U		socket & & stud	28.0						14.50	8.75	8.38	8.38
BA-486/U	10	stud & nut	28.0	28.0	28.0				9.00	10.00	6.00	6.00
BA-505/U		2-hole socket	6.0	6.0					----	0.56 *	5.25	5.25
BA-605/U		2-post pin	15.0						2.18	1.87	2.70	
BA-618/U		2-post pin	24.0						----	3.00 *	3.00	3.04
BA-630/U		10-Pin Type	29.5						----	3.84 *	3.25	3.25
BA-801/U	6	(2) 5-hole socket							9.55	5.94	3.62	3.62
BA-802/U	6, 10	2-hole socket	1.5	1.5					2.59	1.38	4.25	4.31
BA-803/U	10	Stud & nut	6.0	6.0					2.63	2.63	4.19	3.84
BA-804/U		Binding post	7.5	7.5					7.25	4.06	6.38	5.88
BA-806/U	10	6-hole socket	45.0	45.0					3.44	2.25	4.50	4.50
BA-808/U	10	Stud & nut	7.5						7.88	5.00	7.50	7.50
BA-809/U	10	Flat spring	3.0	3.0					5.59	1.44	3.25	
BA-811/U	10	Stud & nut	9.0						4.09	2.75	3.31	3.31
BA-818/U	10	Stud & nut	13.5	13.5					2.06	2.06	2.59	2.59
BA-823/U	10	Flat surface	30.0						1.31	1.00	2.81	2.75
BA-833/U	10	6-hole socket	1.5	1.5					2.97	1.28	2.56	2.56
BA-834/U	9	Snap-on	45.0						1.31	3.69	3.69	3.59
BA-1006/U		Flat surface	1.3	1.3					----	0.61 *	0.23	0.23
BA-1010/U		Flat surface		1.3					----	1.46 *	0.39	0.39
BA-1030/U		Flat surface	1.3	1.3					----	1.31 *	2.38	2.34

*Diameter

Table 1-3.
Technical Characteristics

MIL/MFR PART NO.	NOTE	TERMINAL TYPE	NOMINAL VOLTAGE (VOLTS)	TERMINAL VOLTAGE TAP A	TAP B	TAP C	TAP D	TAP E	NOMINAL DIMENSIONS (IN) L	W	OVRL HGT	BODY HGT
BA-1082/U		Stud & nut	6.8						2.09	1.44	3.38	2.09
BA-1083/U		2 lug	10.4	10.4					2.66	2.66	5.56	5.25
BA-1085/U		3 wires	13.5	1.3	13.0				----	0.72 *	4.56	4.56
BA-1086/U		Flat surface	12.1	12.1	2.7	5.4			----	0.66 *	5.81	5.83
BA-1087/U		Flat surface	4.1	4.0					----	0.66 *	5.84	5.74
BA-1090/U		Snap-on	8.4						1.03	0.59	1.91	1.94
BA-1092/U		Flat surface	9.1	9.1					----	0.66 *	1.94	1.81
BA-1093/U		Flat surface	7.8	7.8					----	0.66 *	3.90	3.86
BA-1094/U		Flat surface	5.2	5.2					----	0.66 *	1.64	1.66
BA-1096/U		Ribbon	1.3	1.3					0.68	0.29	0.68	
BA-1098/U		Flat surface	3.9	3.9					----	0.66 *	1.96	1.95
BA-1100/U		Flat surface	6.5						----	1.50 *	2.31	2.28
BA-1101/U		3-hole socket	5.2	5.2	2.6				1.06	1.06	2.91	2.91
BA-1105/U		Flat surface	1.4	1.4					----	0.62 *	1.95	1.95
BA-1106/U		Flat surface	4.2	4.2					----	1.02 *	1.97	1.96
BA-1110/U		Flat surface	1.3						----	0.98 *	0.46	0.46
BA-1111/U		Flat surface	12.1	12.1					----	1.00 *	5.81	5.81
BA-1234/U		3-hole socket	48.2	48.2					2.00	1.31	3.61	
BA-1264/U		4-hole socket	136.0	1.3					1.50	3.44	6.59	6.25
BA-1278/U		7-hole socket	45.5	22.1	5.2	2.6			3.19	1.31	4.19	4.19

*Diameter

Table 1–3.
Technical Characteristics

MIL/MFR PART NO.	NOTE	TERMINAL TYPE	NOMINAL VOLTAGE (VOLTS)	TERMINAL VOLTAGE TAP A	TAP B	TAP C	TAP D	TAP E	NOMINAL DIMENSIONS (IN) L	W	OVRL HGT	BODY HGT
BA-1288/U		Flat surface	1.3	1.3					----	1.20 *	0.65	0.59
BA-1293/U		2-post pin	4.0						----	0.79 *	2.39	2.01
BA-1312/U		Flat surface	1.3	1.3					----	0.62 *	0.64	0.59
BA-1315/U		4-hole socket	136.0	1.3					1.50	3.44	6.59	6.25
BA-1318/U		Flat surface	5.2	5.2					----	0.64 *	1.04	0.95
BA-1328/U	Obsolete	Flat surface	1.3	1.3					----	0.62 *	1.95	1.91
BA-1330/U		Flat surface	1.3	1.3					----	0.99 *	0.65	0.60
BA-1363/U		Flat surface	12.1	12.1					----	0.64 *	2.28	2.22
BA-1371/U		Flat surface	5.4	5.4					----	0.66 *	2.62	2.58
BA-1372/U		Flat surface	6.5	6.5								
BA-1373/U		Flat surface	2.6	2.6					----	0.66 *	1.32	1.31
BA-1387/U		2-hole socket	16.0						1.44	3.38	5.56	5.00
BA-1389/U		Flat surface	10.4	10.4					----	0.66 *	5.20	5.08
BA-1391/U	Obsolete	Flat surface	1.3	1.3					----	1.46 *	0.52	0.51
BA-1393/U	10	Wire lead	13.0						----	1.00 *	4.94	4.94
BA-1396/U		Flat surface	5.2						----	0.66 *	1.75	1.72
BA-1400/U		Flat surface	6.5	6.5					----	0.66 *	2.19	2.19
BA-1425/U		Flat surface	1.3						----	0.46 *	1.11	1.10
BA-1499/U		Snap fasteners	10.8						2.44	1.69	2.28	2.13
BA-1516/U		Wire lead	8.1						4.50	1.38	1.00	1.00

*Diameter

Table 1-3.
Technical Characteristics

MIL/MFR PART NO.	NOTE	TERMINAL TYPE	NOMINAL VOLTAGE (VOLTS)	TERMINAL VOLTAGE TAP A	TAP B	TAP C	TAP D	TAP E	NOMINAL DIMENSIONS (IN) L	W	OVRL HGT	BODY HGT
BA-1533/U		Flat surface	2.6						2.17	1.12	0.26	0.26
BA-1542/U	10	Screw	28.0						----	2.76 *	6.44	5.29
BA-1544/U	10	Screw	28.0						----	2.76 *	15.13	13.98
BA-1546/U	10	Snap-on	28.6						----	2.75 *	4.50	4.50
BA-1568/U		Flat surface	14.0						----	1.06 *	3.00	3.00
BA-1574/U		Screw	5.4	5.4					----	1.00 *	2.58	0.00
BA-1844/U		3-hole socket	15.6	15.6	-15.6				6.12	2.56	0.81	0.81
BA-2245/U		Stud & nut	0.9						----	0.94 *	2.38	2.06
BA-3030/U		Flat Surface	1.5						----	1.31 *	2.38	
BA-3036/U	8	Stud & nut	45.0	22.5	45.0				4.19	2.50	6.50	5.81
BA-3042/U		Flat Surface	1.5						----	1.00 *	1.88	
BA-3051/U		Snap fasteners	67.5	67.5					2.69	1.31	3.59	3.59
BA-3058/U		Flat Surface	1.5						----	0.56 *	1.94	
BA-3090/U		Flat Surface	9.0						1.03	0.66	1.91	
BA-3517/U		Connector plug	36.0	36.0					6.49	5.49	4.84	4.55
BA-4386/ PRC-25		5-hole socket	14.4	3.0	14.4				9.50	3.63	2.13	2.13
BA-4840/U		6-hole socket	28.8	14.4	14.4				3.42	6.00	11.61	11.61
BA-5093/U		2-hole socket	27.0						3.34	3.34	3.39	2.63
BA-5112/U		2-pin contact	12.0						1.54	2.25	3.06	2.85
BA-5372/U		Flat Contact	6.0						----	0.65 *	1.30	1.30

*Diameter

Table 1–3.
Technical Characteristics

MIL/MFR PART NO.	NOTE	TERMINAL TYPE	NOMINAL VOLTAGE (VOLTS)	TERMINAL VOLTAGE TAP A	TAP B	TAP C	TAP D	TAP E	NOMINAL DIMENSIONS (IN) L	W	OVRL HGT	BODY HGT
BA-5557/U		6-hole socket	30.0	15.0	15.0				1.44	4.12	3.91	3.91
BA-5567/U		Flat surface	3.0						----	1.00 *	0.72	0.65
BA-5588/U		Snap-on	15.0						3.54	1.22	6.64	3.49
BA-5590/U		6-hole socket	30.0	15.0	15.0				4.40	2.45	5.00	5.00
BA-5598/U		5-hole socket	15.0	3.0	15.0				4.69	3.56	2.06	2.06
BA-5599/U		6-hole socket	9.0						6.00	1.55	2.50	2.50
BA-5600/U		Flat contact (one end)	9.0						----	1.56 *	7.32	7.32
BA-5800/U		Flat contact (one end)	6.0						----	1.40 *	5.06	5.06
BA-5847/U		2-hole socket	6.0						2.55	1.30	3.75	3.75

*Diameter

Table 1-4.
National Stock Number Index

NATIONAL STOCK NUMBER	BATTERY TYPE NUMBER	NOTE	NATIONAL STOCK NUMBER	BATTERY TYPE NUMBER	NOTE
6135-00-010-5255	BA-1094/U		6135-00-100-0464	BA-223/U	10
6135-00-010-5275	BA-1010/U		6135-00-100-0465	BA-222/U	9
6135-00-050-3280	BA-200/U	1	6135-00-100-0469	BA-126	10
6135-00-054-7132	BA-1393/U	10	6135-00-100-0474	BA-211/U	10
6135-00-056-7612	BA-1533/U		6135-00-100-0475	BA-210/U	
6135-00-073-8939	BA-1574/U		6135-00-102-4217	BA-1516/U	
6135-00-100-0402	BA-802/U	6,10	6135-00-107-6662	BA-41	10
6135-00-100-0385	BA-806/U	10	6135-00-112-8634	BA-331/U	
6135-00-100-0387	BA-808/U	10	6135-00-112-8635	BA-291/U	10
6135-00-100-0392	BA-809/U	10	6135-00-112-8636	BA-823/U	10
6135-00-100-0399	BA-811/U	10	6135-00-112-8637	BA-305/U	10
6135-00-100-0413	BA-803/U	10	6135-00-120-1003	BA-56	10
6135-00-100-0415	BA-818/U	10	6135-00-120-1004	BA-53	9
6135-00-100-0420	BA-203/U	9	6135-00-120-1007	BA-48	9
6135-00-100-0423	BA-205/U	9	6135-00-120-1013	BA-38	9
6135-00-100-0425	BA-207/U	10	6135-00-120-1015	BA-36	8
6135-00-100-0426	BA-208/U	10	6135-00-120-1016	BA-35	10
6135-00-100-0457	BA-232/U	10	6135-00-120-1017	BA-34	9
6135-00-100-0458	BA-231/U	9	6135-00-120-1018	BA-33	10
6135-00-100-0460	BA-228/U	9	6135-00-120-1019	BA-31	9
6135-00-100-0462	BA-225/U	10	6135-00-120-1021	BA-28	9

Table 1-4.
National Stock Number Index

NATIONAL STOCK NUMBER	BATTERY TYPE NUMBER	NOTE	NATIONAL STOCK NUMBER	BATTERY TYPE NUMBER	NOTE
6135-00-120-1022	BA-27	9	6135-00-164-8768	BA-416/U	
6135-00-120-1023	BA-26	9	6135-00-164-8772	BA-1101/U	
6135-00-120-1025	BA-15A		6135-00-164-8773	BA-410/U	9
6135-00-120-1026	BA-9	9	6135-00-164-8774	BA-409/U	9
6135-00-120-1028	BA-2	9	6135-00-164-8775	BA-408/U	10
6135-00-120-1032	BA-59		6135-00-164-8776	BA-407/U	10
6135-00-120-1034	BA-65	9	6135-00-178-9506	BA-63	10
6135-00-125-5256	BA-414/U	9	6135-00-178-9527	BA-804/U	10
6135-00-125-5257	BA-419/U	9	6135-00-182-7926	BA-1546/U	10
6135-00-125-5265	BA-1030/U		6135-00-194-9352	BA-270/U	
6135-00-128-1632	BA-245/U	10	6135-00-194-9353	BA-1278/U	
6135-00-135-0194	BA-1400/U		6135-00-221-4688	BA-334/U	10
6135-00-160-7158	BA-1234/U		6135-00-221-4719	BA-333/U	9
6135-00-160-7159	BA-261/U		6135-00-221-4720	BA-332/U	
6135-00-164-8753	BA-401/U		6135-00-237-1703	BA-630/U	
6135-00-164-8754	BA-413/U	9	6135-00-240-3200	BA-279/U	9
6135-00-164-8756	BA-417/U	10	6135-00-266-9762	BA-1288/U	
6135-00-164-8757	BA-418/U	10	6135-00-266-9766	BA-828/U	
6135-00-164-8758	BA-420/U	10	6135-00-269-5843	BA-1312/U	
6135-00-164-8760	BA-422/U	9	6135-00-271-0407	BA-1293/U	
6135-00-164-8766	BA-411/U	10	6135-00-295-0608	BA-1315/U	

Table 1-4.
National Stock Number Index

NATIONAL STOCK NUMBER	BATTERY TYPE NUMBER	NOTE	NATIONAL STOCK NUMBER	BATTERY TYPE NUMBER	NOTE
6135-00-295-2613	BA-1085/U		6135-00-683-0536	BA-833/U	10
6135-00-295-2614	BA-1330/U		6135-00-683-0812	BA-1106/U	
6135-00-295-2619	BA-1318/U		6135-00-715-4001	BA-1373/U	
6135-00-299-6918	BA-1006/U		6135-00-725-3941	BA-1105/U	
6135-00-445-2787	BA-1096/U		6135-00-801-3493	BA-1372/U	
6135-00-450-3528	BA-3517/U		6135-00-803-3012	BA-1499/U	
6135-00-459-3322	BA-1542/U	10	6135-00-808-5093	BA-1093/U	
6135-00-459-3323	BA-1544/U	10	6135-00-816-6206	BA-834/U	9
6135-00-461-3590	BA-1844/U		6135-00-823-3034	BA-472/U	10
6135-00-473-6278	BA-1086/U		6135-00-833-9909	BA-2245/U	
6135-00-473-6279	BA-1087/U		6135-00-835-1023	BA-1090/U	
6135-00-546-6273	BA-605/U		6135-00-837-5331	BA-485/U	
6135-00-548-2765	BA-1264/U		6135-00-838-0706	BA-1568/U	
6135-00-556-8318	BA-1098/U		6135-00-845-9232	BA-1371/U	
6135-00-557-0174	BA-1083/U		6135-00-889-1485	BA-1387/U	
6135-00-577-3340	BA-358/U		6135-00-889-1502	BA-486/U	10
6135-00-577-8309	BA-1363/U		6135-00-906-0984	BA-1110/U	
6135-00-578-6901	BA-1092/U		6135-00-926-0827	BA-1100/U	
6135-00-603-4859	BA-618/U		6135-00-926-0844	BA-505/U	
6135-00-635-6370	BA-259/AM	9	6135-00-926-0845	BA-399/U	
6135-00-669-6679	BA-1425/U		6135-00-926-8322	BA-4386/PRC-25	

Table 1-4.
National Stock Number Index

NATIONAL STOCK NUMBER	BATTERY TYPE NUMBER	NOTE	NATIONAL STOCK NUMBER	BATTERY TYPE NUMBER	NOTE
6135-00-930-0030	BA-3030/U	2	6135-01-214-6441	BA-5372/U	
6135-00-935-2533	BA-1396/U		6135-01-216-9771	BA-5093/U	
6135-00-935-2582	BA-3051/U		6135-01-235-4168	BA-5112/U	
6135-00-935-2583	BA-3200/U		6665-99-760-9742	BA-5800/U	
6135-00-935-2587	BA-3058/U	4			
6135-00-935-2589	BA-3036/U	8			
6135-00-935-5301	BA-3042/U	3			
6135-00-935-8769	BA-1111/U				
6135-00-961-3603	BA-1389/U				
6135-00-985-7887	BA-1082/U				
6135-01-015-1223	BA-4840/U				
6135-01-034-2239	BA-5598/U				
6135-01-036-3495	BA-5590/U				
6135-01-063-1978	BA-3090/U	5			
6135-01-069-8575	BA-5599/U				
6135-01-088-2707	BA-5557/U				
6135-01-088-2708	BA-5588/U				
6135-01-090-5364	BA-5847/U				
6135-01-090-5365	BA-5567/U				
6135-01-168-2944	BA-5600/U				

13. Transportation.

Due to the advanced technology presently used in the construction of dry batteries in the Carbon-Zinc, Alkaline and Mercury electrochemical systems, which has achieved significant improvements in service (capacity) and shelf life over a wide temperature range, refrigerated transportation at 35 °F from origin to ultimate destination is no longer required. This includes Magnesium batteries which are extremely resistant to high temperature.

CAUTION
When warehousing (off loading) batteries during transit from origin to ultimate destination, avoid temperatures above 90 °F during storage.

The following transportation policies will apply:

a. Close coordination between supplying agencies, transportation officers and terminal operators is necessary for the proper protection of batteries, and to ensure conformance with transportation and packaging requirements. Advance notification of shipments of dry batteries will be sent by shipping transportation agencies to CONUS consignees, including agencies responsible for subsequent export movement, to insure proper handling storage (if required), and further shipment.

b. Shipments of batteries should be unitized (ship by quantity unit packs) to the maximum extent practical, consistent with the transportation mode used. This will facilitate handling and minimize vulnerability of shipments to damage and pilferage.

c. Shipments from storage will be made on a first-in/first-out basis, unless otherwise directed by the NICP item manager.

d. Each shipment having batteries of the same NSN will consist of batteries produced by the same manufacturer, whenever possible.

e. All shipments of primary dry batteries by mail to Outside Continental United States (OCONUS) consignees will be via Air Parcel Post.

14. Sampling, Inspecting, and Testing.

Primary batteries are issued without testing when the issue date precedes the expiration date. Expired batteries will not be issued until lot samples are inspected and tested. Procedures for these actions are discussed in the following paragraphs.

a. Shelf Life Extension Program for Primary Batteries.

The item manager (CECOM) will issue a Material Release Order (MRO) to all CONUS depots that store CECOM managed stock when it is determined that a primary battery stock lot is within 9 months of shelf life expiration. Depots will be advised to ship a representative sample to CECOM Battery Test and Evaluation Facility (BTEF), Fort Monmouth, New Jersey for testing. Upon completion of testing, depots will be instructed as to the disposition of batteries affected.

b. Sampling.

For inspection or testing of battery lots with expired dates, at all other storage facilities, select battery sample quantity in accordance with instructions contained in Table 1-5. If batteries have been stored in a temperature below 60 °F or above 80 °F, place the sample batteries in a dry room or chamber at 70 °F (±10 °F) for at least 24 hours before testing. Failure to comply with this instruction will result in an erroneous test result.

c. Inspection.

Visually inspect all samples for electrolyte leakage (moist exudation from cells which appears on the external surface of the battery), deformation (swelling) of the battery, corroded terminals, or other mechanical defects which might render the battery difficult or impractical for use in the field. Any battery with any visible defects is unserviceable and will be so classified without further test. Unserviceable batteries will be disposed of in accordance with instructions in paragraph 6.

d. Testing.

Battery Tester TS-183/U will be used for testing primary dry batteries in the field. Test data and instructions are attached to the cover of the tester and may also be found in TM 11-6625-450-15, TM 11-2571 (Air Force TO-00-25-213). For newer military types of primary batteries which are not included in the above TM's or battery tester chart, the tester jack number which should be used and the corresponding minimum permissible test end-voltage are marked on the primary dry battery packaging. The following procedures will be used for testing:

(1) Determine from the data chart or military battery packaging the applicable jack for the battery or unit of the battery to be tested and the minimum permissible test end-voltage.

(2) Insert the selector plug. Observe the polarity. Apply the test prods to the applicable terminals for 10 to 15 seconds maximum. Observe the voltage reading at the end of the period. If the test end-voltage is below the minimum permissible voltage shown on the data chart or on the battery, the battery is unusable and will be classified unserviceable.

Due to their unique characteristics, automatically activated thermal and water-activated batteries will not be tested in the field. If any such batteries are beyond their expiration date, the field user will contact the appropriate NICP for disposition instructions.

e. Testing of Lithium-Sulfur Dioxide Batteries.

Battery tester TS-4403 (NSN 6625-01-359-5771) will be used to test batteries BA-5590/U and BA-5598/U.

NOTE

Future modifications are planned for the TS-4403 that will provide it with the capability to test the BA-5588/U. Contact your ICP for further information.

Battery tester TS-4403 shall be operated in accordance with the instruction manual provided. Only readings of 70-100% are considered as passing for extension purposes. The BA-5372/U Lithium-Manganese Dioxide battery can be tested with the TS-183/U battery tester, as described above. There were no approved methods for field testing of other Lithium batteries at the time this supply bulletin was published. When such methods are developed and proven effective the information will be made available.

15. Classification After Testing.

A lot is any group of primary batteries of the same military type/commercial part number, NSN, Commercial and Government Entity (CAGE), and Contract/Order number. After an analysis of the test data, battery lots will be classified Class 1, Class 2, or Class 3 based upon criteria defined in Table 1-5 below.

Table 1-5. Battery Test Lot Classification

Number in Lot	Sample Size (minimum Quantity to be tested)	Allowable Defectives Per Lot		
		Class 1	Class 2	Class 3
50 and under	All	--	--	--
51 to 500	50	5	20	21 or more
510 to 3,200	100	9	39	40 or more

16. Post Classification Action.

Primary batteries which do not meet Class 1 requirements will be discarded unless there is a critically short supply in which case Class 2 and Class 3 batteries may be retained after expiration date for as long as the shortage exists. When batteries that do not meet Class 1 requirements must be issued, supply action will be as follows:

a. In CONUS, batteries classified as Class 2, in accordance with Table 1-5, may be issued only for use within CONUS. They may be retained in stock for a longer period of time for subsequent issue for use only in CONUS. Supply activities OCONUS will treat lots of Class 2 batteries in the manner prescribed for those classified as Class 3 (see paragraph 17b). When a short-supply situation makes it necessary to use a particular lot of batteries for maneuvers, field exercises, or special test operations, each battery considered for issue will be inspected and tested. Only those batteries that pass inspection and test may be issued.

b. When a battery lot is classified as Class 3, an additional quantity of samples from the same lot (equal in number to the first group of samples) will be selected, inspected, and tested. If the second sample still scores a lot classification of Class 3, and batteries from such lots are required for immediate use, each battery considered for issue will be inspected and tested to insure only usable batteries are issued. This alternative will be used only when satisfactory substitute batteries are not available.

c. Remarking of reclassified batteries will be in accordance with instructions contained in paragraph 18.

17. Marking After Testing.

Each shipping container, intermediate package or unit package (the innermost package) of the sampled, inspected, and tested lots will be plainly marked to show inspection and test results. Stock record cards or other automated record systems will be annotated to indicate changed expiration dates of such batteries. Refer to Standard Army Intermediate Level Supply (SAILS) System when applicable. Marking after testing shall change expiration dates pursuant to the following criteria:

a. Class 1 -- Extend expiration date six months in temperate and arctic zones, and three months in tropical zones.

b. Class 2 -- Extend expiration date three months in temperate and arctic zones. (In tropical zones these batteries will be identified as unusable and will be disposed of in accordance with instructions contained in paragraph 6.)

c. Obliterate the original expiration date and replace it with the extended expiration date.

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APPENDIX A

INFORMATIONAL AND INSTRUCTIONAL NOTES

1-A1. Scope.

This appendix lists, in numerical order, all informational and instructional notes that appear in the NOTE column of Tables 1-1, 1-2, 1-3 and 1-4. The notes are as follows:

NOTE	REMARKS
1.	BA-200/U replaced. Order from ICP S9G, NSN 6135-00-643-1310.
2.	BA-3030/U replaced. Order from ICP S9G, NSN 6135-00-835-7210.
3.	BA-3042/U replaced. Order from ICP S9G, NSN 6135-00-985-7846.
4.	BA-3058/U replaced. Order from ICP S9G, NSN 6135-00-985-7845.
5.	BA-3090/U replaced. Order from ICP S9G, NSN 6135-00-900-2139.
6.	BA-801/U has two 5-hole sockets and, depending how it is utilized, has 3 possible voltages. A1 is 3V, A2 is 15V and B is 30V. See MIL-B-18/252A.
7.	BA-1391/U is obsolete.
8.	BA-36 replaced by BA-3036.
9.	Transferred to DLA. Order from ICP S9G using same NSN.
10.	Transferring to DLA on or about calendar year 1993/1994.
11.	Navy End Item. Complete information not available at the time this SB was published.
12.	Marine End Item. Complete information not available at the time this SB was published.
13.	Air Force End Item. Complete information not available at the time this SB was published.

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APPENDIX B

RECHARGEABLE EQUIVALENTS (TYPE BB) FOR PRIMARY BATTERIES

B1. Scope.

This appendix lists, in battery type number order, the rechargeable equivalent of certain primary batteries. The data is arranged in columnar style. The following is an explanation of each of the columns:

a. BA TYPE. This column lists, in alphanumerical order, the military type number (BA) of the primary battery.

b. RECHARGEABLE EQUIV. This column lists the rechargeable battery equivalent (BB) of the primary battery.

c. BB NSN. This column lists the rechargeable battery National Stock Number (NSN).

d. REMARKS. This column contains applicable data.

e. ICP. This column identifies the managing Inventory Control Point (ICP) for the rechargeable battery.

The following chart lists the Rechargeable equivalents:

BA TYPE	RECHARGEABLE EQUIV	BB NSN	REMARKS	ICP
BA-1030/U	BB-412/U	6140-00-921-3670	D Cell, 1.2 Volts, NICAD	CECOM
BA-3030/U	BB-412/U	6140-00-921-3670	D Cell, 1.2 Volts, NICAD	CECOM
BA-3042/U	BB-416/U	6140-00-431-6805	C Cell, 1.2 Volts, NICAD	DLA
BA-3058/U	BB-417/U	6140-00-449-6001	AA Cell, 1.2 Volts, NICAD	DLA
BA-3090/U	BB-589/U	6140-01-208-1143	7.2 Volts, NICAD	DLA
BA-4386/U	BB-586/U	6140-01-084-1460	14.4 Volts For AN/PRC-77, NICAD	CECOM
BA-5516/U	BB-516/U	6140-01-042-9942	AN/GVS-5/MELIOS only	CECOM
BA-5557/U	BB-557/U	6140-01-071-5070	24 Volts, NICAD	CECOM
BA-5588/U	BB-588/U	6140-01-091-1536	13.2 Volts, NICAD	CECOM

APPENDIX B (Cont.)

BA TYPE	RECHARGEABLE EQUIV	BB NSN	REMARKS	ICP
BA-5590/U	BB-590/U	6140-01-063-3918	24 Volts, NICAD	CECOM
BA-5590/U	BB-490/U	6140-01-331-4013	24 Volts, Lead Acid	CECOM
BA-5598/U	BB-586/U	6140-01-084-1460	14.4 Volts. BB-586/U is electrically compatible but twice the length of BA-5598/U.	CECOM

APPENDIX C

TECHNICAL SUPPORT

To obtain further information and guidance, contact the CECOM National Inventory Control Point (NICP) for engineering, safety/environmental and logistical support. The mailing address is: Commander, U.S. Army Communications-Electronics Command, ATTN: AMSEL-XXXX, Fort Monmouth, New Jersey 07703-5007. The points of contact as of the date of this publication are listed below:

- **Engineering and Quality Assurance support**: ATTN: AMSEL-LC-ED
  Voice: DSN: 992-4612 or Commercial: (908) 532-4612
  Datafax: DSN: 992-4364 or Commercial: (908) 532-4364
  E-Mail Address: AMSEL-ED-G@MONMOUTH-EMH3.ARMY.MIL.
  Message Address: CDR CECOM FT MONMOUTH NJ//AMSEL-LC-ED//

- **Safety/Environmental support**: ATTN: AMSEL-SF-REE
  Voice: DSN: 995-3112 or Commercial: (908) 544-3112
  Datafax: DSN: 995-2667 or Commercial (908) 544-2667
  E-Mail Address: AMSEL-SF@MONMOUTH-EMH3.ARMY.MIL.
  Message Address: CDR CECOM FT MONMOUTH NJ//AMSEL-SF-REE//

- **Systems Management support**: ATTN: AMSEL-LC-SM-S1
  Voice: DSN: 992-8941 or Commercial: (908) 532-8941
  Datafax: DSN: 992-3418 or Commercial (908) 532-3418
  E-Mail Address: AMSEL-LC-SM@MONMOUTH-EMH3.ARMY.MIL.
  Message Address: CDR CECOM FT MONMOUTH NJ//AMSEL-LC-SM-S1//

- **Security Assistance Management**: ATTN: AMSEL-LC-SA-B
  Voice: DSN 992-8642 or Commercial (908) 532-8642
  Datafax: DSN: 992-4648 or Commercial (908) 532-4648
  E-Mail Address: AMSEL-LC-SA-B@MONMOUTH-EMH3.ARMY.MIL.
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APPENDIX D

GLOSSARY

BTEF	-	Battery Test and Evaluation Facility
CECOM	-	Communications, Electronics Command
CFR	-	Code of Federal Regulations
CONUS	-	Continental United States
DLA	-	Defense Logistics Agency
DoD	-	Department of Defense
DRMO	-	Defense Reutilization and Marketing Office
DSN	-	Defense Switching Network
DTID	-	Disposal Turn-in Document
EPA	-	Environmental Protection Agency
GSA	-	General Services Administration
HM	-	Hazardous Material
HW	-	Hazardous Waste
HWPS	-	Hazardous Waste Profile Sheet
ICP	-	Inventory Control Point
IEO	-	Installation Environmental Office
IH	-	Industrial Hygienist
ITO	-	Installation Transportation Office
MRO	-	Material Release Order
MSDS	-	Material Safety Data Sheet
NHSW	-	Non-hazardous Solid Waste
NI-CAD	-	Nickel Cadmium
NICP	-	National Inventory Control Point
NSN	-	National Stock Number
OCONUS	-	Outside Continental United States
PMO	-	Preventive Medicine Officer
PPE	-	Personal Protective Equipment
QUP	-	Quantity Unit Pack
RCRA	-	Resource Conservation and Recovery Act
SAILS	-	Standard Army Intermediate Level Supply
SO	-	Safety Officer
SOS	-	Source of Supply
SW	-	Solid Waste

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Stateside, N.J. 07703-5007

DATE SENT
10 July 1975

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 11-5840-340-12	23 Jan 74	Radar Set AN/PRC-76

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PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
2-25	2-28			Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°. REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.
3-10	3-3		3-1	Item 5, Function column. Change "2 db" to "3db." REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.
5-6	5-8			Add new step f.1 to read, "Replace cover plate removed in step e.1, above." REASON: To replace the cover plate.
		F03		Zone C 3. On J1-2, change "+24 VDC to "+5 VDC." REASON: This is the output line of the 5 VDC power supply. +24 VDC is the input voltage.

SAMPLE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
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