#### **TECHNICAL MANUAL**

OPERATOR'S ORGANIZATIONAL, DS, GS, AND
DEPOT MAINTENANCE MANUAL INCLUDING
REPAIR PARTS AND SPECIAL TOOLS LISTS

**POWER SUPPLY PP-6224/U** 

#### WARNING

High voltages and currents exist in this equipment.

#### DO NOT TAKE CHANCES!

Power Supply PP-6224/U should be used *only* with a 3-wire grounded ac power source. To avoid possible electrical shock, a 2-wire adapter must *not* be used.

#### CAUTION

#### **ACID CONTAMINATES NICKEL-CADMIUM BATTERIES**

Every effort must be made to keep nickel-cadmium batteries as far away as possible from lead-acid batteries because lead-acid batteries contain sulphuric acid. Do not use the same tools and materials, such as screwdrivers, wrenches, syringes, hydrometers, and gloves for both types of batteries. Any trace of acid or acid fumes will permanently damage nickel-cadmium batteries on contact.

CHANGE

No. 4

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 1 June 1983

# OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT AND DEPOT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS

POWER SUPPLY PP-6224/U AND POWER SUPPLY PP-6224A / U (NSN 6130-00-133-5879)

TM 11-6130-266-15, 23 September 1971, is changed as follows:

1. Remove and insert pages as indicated in the page list below:

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By Order of the Secretary of the Army:

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ROBERT M. JOYCE Major General, United States Army The Adjutant General

#### DISTRIBUTION:

To be distributed in accordance with DA Form 12-51, Operator's Maintenance requirements for RT-246/VRC.

CHANGE No. 3 HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 21 June 1978

# Operator's, Organizational, Direct Support, General Support, and Depot Maintenance Manual Including Repair Parts and Special Tools Lists for PP-6224/U

# POWER SUPPLY PP-6224/U AND POWER SUPPLY PP-6224A/U (NSN 6130-00-133-5879)

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- 1. Title of manual is changed as shown above.
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| 6-1 and 6-2     | 6-1 and 6-2       |
| Appendix B      | Appendix B        |
| None            |                   |
|                 | •                 |

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To be distributed in accordance with DA Form 12-51, Operator TM literature requirements for RT-246/VRC and RT-524/VRC.

CHANGE No. 2

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, DC, 22 April 1975

#### Operator's, Organizational, Direct Support, General Support, and Depot Maintenance Manual Including Repair Parts and Special Tools Lists POWER SUPPLY PP-6224/U

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Warning notice on inside front cover (Deleted)

Warning notice (Added)

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#### **WARNING**

#### DANGEROUS CHEMICALS ARE USED IN NICKEL-CADMIUM BATTERIES

The electrolyte used in nickel-cadmium batteries contains potassium hydroxide (KOH), which is a caustic chemical agent. Serious and deep burns of body tissue will result if the electrolyte comes in contact with the eyes or any part of the body. Use rubber gloves, rubber apron, and protective goggles when handling the electrolyte. If accidental contact with the electrolyte is made, use ONLY clean water and immediately (seconds count) flush contaminated areas. Continue flushing with large quantities of clean water for at least 15 minutes. Seek medical attention without delay.

#### EXPLOSIVE GASES ARE GENERATED BY NICKEL-CADMIUM BATTERIES

Hydrogen and oxygen gases are generated in explosive proportions while the nickel-cadmium battery is being charged. Charge the nickel-cadmium battery in a well-ventilated area to reduce concentrations of explosive gases. Turn off the battery charger before connecting or disconnecting the nickel-cadmium battery to prevent arcing. Do not use matches or an open flame in the charging area. Arcs, flames, or sparks in the charging area will ignite the gases and cause an explosion. The battery box cover must be removed and the battery case vent plug (if used) must be open when charging.

#### DO NOT MIX SULPHURIC ACID AND KOH

The electrolyte used in nickel-cadmium batteries reacts violently to the sulphuric acid used in the more common lead-acid types of batteries. DO NOT add sulphuric acid electrolyte to the battery; the mixing of the acid and KOH electrolytes twill cause a violent reaction which could result in the splattering of the mixture into the eyes and onto the skin.

**★ U.S. GOVERNMENT PRINTING OFFICE: 1975-665141/949** 

CHANGE No. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 15 February 1973

# Operator's, Organizational, Direct Support, General Support, and Depot Maintenance Manual Including Repair Parts and Special Tools Lists POWER SUPPLY PP-6224/U

TM 11-6130-266-15, 23 September 1971, is changed as follows:

1. Remove and insert pages as indicated in the page list below.

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| C-31 through C-34   |                     |
|                     | C-56.1              |
| Figures 8-2 and 8-3 | Figures 8-2 and 8-3 |

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Official:

VERNE L. BOWERS Major General, United States Army The Adjutant General

#### Distribution:

To be distributed in accordance with DA Form 12-51. Operator's Maintenance requirements for RT-246 VRC and RT-524. VRC Equipment.

TECHNICAL MANUAL No. 11-6130-266-15

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 23 September 1971

#### Operator's, Organizational, DS, GS, and Depot Maintenance Manual

#### Including Repair Parts and Special Tools List for PP-6224/U

#### **POWER SUPPLY PP-6224/U AND**

#### **POWER SUPPLY PP-6224A/U**

(NSN 6130-00-133-5879)

#### REPORTING OF ERRORS

You can help improve this manual by calling attention to errors and recommending improvements and stating your reasons for the recommendations. Your letter or DA Dorm 2028 (Recommended Changes to Publications and Blank Forms) should be mailed direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

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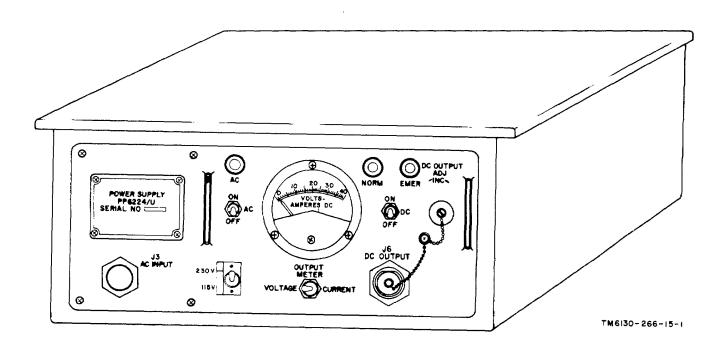


Figure 1-1. Power Supply PP-6224/U.

#### **CHAPTER 1**

#### INTRODUCTION

#### Section I. GENERAL

#### 1-1. Scope

- a. This manual describes Power Supply PP-6224/U and PP-6224A/U (fig. 1-1) and covers its installation, operation. function, and maintenance. It includes operation under usual and unusual conditions, cleaning and inspection of the equipment, and replacement of parts available to each category of maintenance
- b. Unless otherwise indicated, all information provided for Power Supply PP-6224/U is also applicable to Power Supply PP-6224A/U.
- c. Throughout this manual, Power Supply PP-6224/U; Cable Assembly, Power, Electrical CX-11979/U; and Cable Assembly, Power, Electrical CX-12342/VRC will be referred to as *power supply*, ac *power cord*, and dc power cord, respectively.
- d. Appendix A contains a list of publications applicable to this equipment. Appendix B contains the maintenance allocation and repair operations to be performed at the appropriate maintenance categories. Appendix C contains repair parts and tool lists (RPSTL) for the PP-6224/U only. The RPSTL for the PP-6224A/U is contained in TM 11-6130-266-24P-2.

#### NOTE

#### Appendix C is current as of 31 May 1972.

#### 1-2. Indexes of Publications

a. DA Pam 310-4. Refer to DA Pain 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

#### 1-3. Forms and Records

- a. Reports of Maintenance and Unsatisfactory Equipment. Use equipment forms and records in accordance with instructions TM 38-750.
- b. Report of Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (Report of Packaging and Handling Deficiencies) as prescribed in AR 700-58 (Army) NAVSUP PUB 378 (Navy)/AFR 71-4 (Air Force) and MCO P4030.29 (Marine Corps).
- c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38 (Army) NAVSUP PUB 459 (Navy)/AFM 75-34 (Air Force) and MCO P4610.19 (Marine Corps).
- d. Reporting Equipment Improvement Recommendations (EIR). EIR's will be prepared using DA Form 2407 (Maintenance Request). Instructions for preparing EIR's are provided in TM 38-750, The Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703.
- e. Administrative Storage. For procedures, forms and records, and inspection requirement; during administrative storage of equipment. refer to Chapter 8.

#### Section II. DESCRIPTION AND DATA

#### 1-4. Purpose and Use

a. Power Supply PP-6224/U converts 115 or 230 volt, single phase, 50, 60, or 400 hertz (Hz) to 24 to 32 volts de (local load) or 24 to 29 volts dc (remote load) at 25 amperes maximum. This power is used as a

general-purpose, de power source and includes battery charging. Typically, the power supply can be used to power one or two Receiver-Transmitters RT-246 VRC-12 or one or two Receiver-Transmitters RT-524, VRC-12 with their auxiliary equipment.

- b. During local operation, the power supply is connected directly to the load through the dc power cord. If the load must be connected to the power supply at a remote point, a four-conductor cable makes it possible to obtain regulated dc power of 24 to 29 volts at the remote load terminals. The remote load may be placed up to a distance of 25 feet from the power supply.
- c. If a failure or undervoltage condition should occur in the ac power source, the power supply is capable of transferring the load to an external battery. The only limitations affecting battery-supplied power are the absence of voltage regulation and the lack of complete circuit protection. Circuit protection available in this case is limited to the dc circuit breaker located on the front panel.

#### 1-5. Technical Characteristics

a. Electrical Characteristics

| (1)<br>(2) | Ac input voltage<br>Ac input frequency | 115/230 volts ±10%<br>50, 60, or 400 Hz |
|------------|--|---|
| (3)        | Dc output voltage                      | ±5%                                     |
| (-)        | (a) Local load                         | 24.0 to 32.0 volts at                   |
|            | (b) Remote load                        | 1% regulation 24.0 to 29.0 volts at     |
|            |  | 1% regulation                           |
| (4)        | Dc output current                      | 25 amperes maximum                      |
| (5)        | Ripple (Rms voltage)                   | Less than 0.5%                          |
| (6)        | Ambient temperature                    |   |
|            | operating                              | -40°F to +150°F                         |
|            |  | (-40°C to +66'C)°                       |

#### b. Weight and Dimensions

- (1) Weight:
  - (a) Unpacked......94 pounds (b) Packed......120 pounds
- (2) PP-6224/U Dimensions:

#### 1-6. Components

| Item<br>No. | Quantity | National stock<br>No. | Component  | Height<br>(in.) | width<br>(in.) | Depth<br>(in.) | Length<br>(ft.) | Weight<br>(lb.) |
|-------------|----------|-----------------------|--|-----------------|----------------|----------------|-----------------|-----------------|
| 1           | 1        | 6130-00-133-5879      | Power Supply PP-6224/U                           | 7               | 16             | 16             |                 | 94              |
| or 1A       | 1        | 6130-00-133-5879      | Power Supply PP-6224A/U                          | 7               | 16             | 16             |                 | 94              |
| 2           | 1        | 6150-00-135-4555      | Cable Assembly, Power                            |                 |                |                |                 |                 |
|             |          |                       | Electrical CX-11979/U                            |                 |                |                | 15              |                 |
| 3           | 1        | 5995-00-466-0217      | Cable Assembly, Power<br>Electrical CX-12342/VRC |                 |                |                | 3               |                 |

#### 1-7. Description

The power supply is housed in a watertight case. Circuit beakers to protect the power supply during overloads are mounted on the front panel. A combination voltmeter-ammeter enables the operator to monitor either output voltage or output current, All controls and receptacles, except the J7 DC OUT, J8 BAT, IN, and J9 DC OUT receptacles, are mounted on the front panel. Receptacles 37 DC OUT, J8 BAT, IN, and J9 DC OUT are mounted on the rear panel. Ac and dc power cords furnished with the power supply are illustrated in figure 1-2.

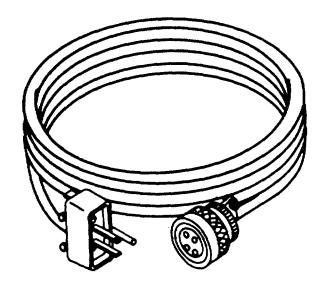
#### 1-8. Auxiliary Cable Assemblies

Cable assemblies required but not supplied with the power supply are as follows:

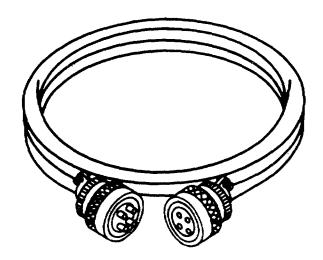
- a. Twenty five feet in length, 4-conductor cable assembly required to connect the power supply to a set of remote load terminals.
- b. Cable assembly required to connect the power supply to the external battery.

#### 1-9. Differences in Models

Differences between Power Supplies PP-6224/U and PP-6224A/U are the result of certain EMI improvements which have been incorporated into the PP-6224A/U. Unless otherwise indicated, all information provided for PP-6224/U is also applicable to PP-6224A/U.



A. CABLE ASSEMBLY, POWER, ELECTRICAL CX-11979/U (AC POWER CORD).



B. CABLE ASSEMBLY, POWER, ELECTRICAL CX-12342/VRC (DC POWER CORD).

TM 6130-266-15-2

Figure 1-2. Power Supply PP-622 /U, power cords.

#### **CHAPTER 2**

#### INSTALLATION AND OPERATING INSTRUCTIONS

#### Section I. INSTALLATION

#### 2-1. Packaging Data

When packaged for shipment, the power supply is packed as follows:

- a. The power supply is fastened to a plywood sheet by bolts and nuts at each corner.
- b. The ac and dc. power cords are placed in a sealed plastic bag and packed behind the power supply.
- c. The power supply, technical manual, and cords are placed in the fiberboard box and enclosed by a sleeve.
- *d.* A top pad is placed over the equipment, then the two sealed bags are placed on the pad.
- e. The box is now closed and taped at all four corners.

#### 2-2. Unpacking and Checking

- a. Unpacking. To unpack the power supply (fig. 2-1), proceed as follows:
- (1) Cut the tape sealing the top of the fiberboard box and fold back the flaps.
  - (2) Remove the manual bag.
  - (3) Remove the top pad.
  - (4) Lift out the ac and de power cords.
- (5) Cut the tape at the four corners of the box and fold back each side of the box until the four fastening bolts are accessible.
- (6) Remove the sleeve from the power supply.
- (7) Remove the nuts and bolts that secure the power supply to the plywood.
- (8) Lift the power supply off the plywood and place it in an area for easy checking.

#### b. Checking.

(1) Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on DD Form 6 (para 1-3).

(2) Check to see that the equipment is complete as listed on the packing slip. If a packing slip is not available, check the equipment against the chart in paragraph 1-6. Report all discrepancies in accordance with TM 38-750. Shortage of a minor assembly or part that does not affect proper functioning of the equipment should not prevent use of the equipment.

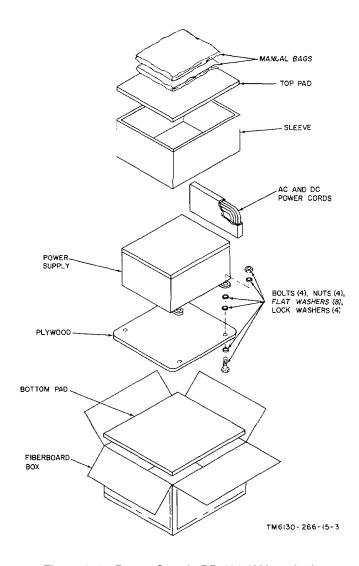


Figure 2-1. Power Supply PP-6224/ U, typical packaging.

(3) If the equipment has been used or reconditioned, see whether it has been changed by a modification work order (MWO). If the equipment has been modified, the MWO number will appear on the front panel near the nomenclature plate. Check to see that any operational changes resulting from the modification have been entered in the equipment manual.

#### NOTE

Current MWO's applicable to the equipment are listed in DA Pam 310-7.

#### Section II. OPERATING INSTRUCTIONS

#### 2-3. Controls, Indicators, and Connectors

The following chart lists controls, indicators, and connectors located on the front (fig. 2-2) and rear (fig. 2-3)

panels of the power supply. Except for the DC OUT and BAT IN connectors, all items are located on the front panel.

**Function** Control, connector, or indicator

AC circuit breaker AC indicator lamp (amber)

230V-115V selector switch (2-position toggle switch)

AC INPUT receptacle (J3)

NORM indicator lamp (green)

EMER indicator lamp (red)

DC OUTPUT receptacle (J6, front)

DC OUT receptacle (J7, rear)

BAT IN receptacle (J8, rear)

DC OUT receptacle (J9, rear)

DC circuit breaker

**VOLTAGE-CURRENT** selector switch (2-position toggle switch (spring-loaded in VOLTAGE position) OUTPUT METER

DC OUTPUT ADJ potentiometer

Protects the ac input circuit against overcurrent and also serves as the ac on-off switch. Lights to indicate that the AC circuit breaker is ON and that the line voltage is applied to the power supply.

Sw. position **Function** 

230V Connects input circuit for 230-volt input power operation. Connects input circuit for 115-volt input power operation. 115V Connects the power supply to an external 115- or 230-volt ac power source through the

ac power cord.

During local and remote operation, the lamp indicates that a dc output voltage is being

produced.

Indicates an undervoltage condition or loss of power in the ac power source, providing the power supply is connected to an external battery. For an input of 115 volts ac, a drop below 80 volts ac causes an undervoltage condition; for an input of 230 volts ac, a drop below 160 volts ac causes an undervoltage condition. Normal operation resumes where the ac input voltage reaches 100 volts ac or 200 volts ac, respectively.

Connects the power supply to a remote load through a suitable 4-conductor cable. Maximum dc output voltage obtainable at the end of the 25-foot connecting cable is 29.0

Connects the power supply to a local load through the de power cord. Also connects the power supply to an external battery, enabling the power supply to function as a battery charger. The DC OUT receptacle (J7) is connected in parallel with the DC OUT receptacle J9.

Connects the power supply to a standby battery. When ac input power fails or an undervoltage condition develops, the load is automatically transferred to this battery.

Connects the power supply to a local load through the de power cord. Also connects the power supply to an external battery, enabling the power supply to function as a battery charger. The DC OUT receptacle (J9) is connected in parallel with DC OUT receptacle J7.

Protects the power supply against overloads in case of failure of the overcurrent limiter. The DC circuit breaker is set to trip when the output current reaches 28.0 amperes. Also protects the power supply against reverse polarity when functioning as a battery charger.

b. Serves as the dc on-off switch by connecting the dc power to the load.

Connects the power supply to an external battery.

Protects the power supply against overcurrent when the load is transferred to the external battery during emergency operation.

**Function** 

Sw. position VOLTAGE Connects OUTPUT METER to measure dc voltage. **CURRENT** Connects OUTPUT METER to measure de current.

Indicates power supply output voltage or current, depending on the setting of the VOLTAGE-CURRENT selector switch. Also indicates battery voltage when the load has been transferred to the external battery.

Adjusts the power supply output voltage from a minimum of 24.0 volts to a maximum of 29.0 volts in remote operation, and to 32.0 volts in local operation.

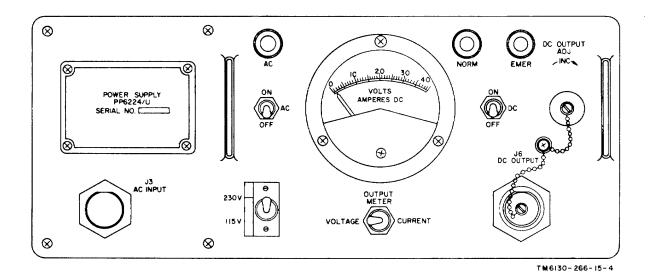


Figure 2-2. Power Supply PP-6224/U, controls and indicators.

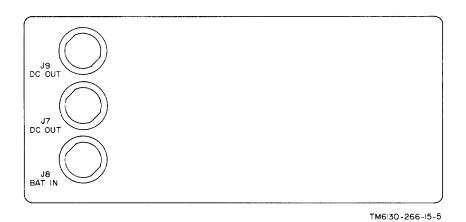


Figure 2-3. Power Supply PP-6224/U, rear view.

## 2-4. Damage from Improper Settings (fig. 2-2)

Observe the following precautions when setting the controls:

- a. Be sure that the power supply is not connected to a source of power.
  - b. Set the AC circuit breaker to OFF.
- c. Check to see that the 230V-115V selector switch is in the proper position for the source of voltage available. If the switch is set for 115-volt operation and the power supply is connected to a 220-volt source, the AC circuit breaker will trip. If the switch is set for 230-volt operation and the power Supply is connected to a

115-volt source, the AC circuit breaker will not trip, but the power supply will not operate.

#### 2-5. Preliminary Operation

To prepare the power supply for operation, proceed as follows:

- a. Check, to see that the AC circuit breaker is set to OFF.
- b. Check to see that the DC circuit breaker is set to OFF.
- c. Check to see that the ace power cord is properly connected to the AC INPUT receptacle J3

and then connect the ac power cord to a 3-wire grounded ac power source. (To avoid possible electrical shock, 2-wire adapters must not be used).

#### NOTE

Loads mav be connected simultaneously to DC **OUTPUT** receptacle J6 and DC OUT receptacles J7 and J9 providing the total output current drain is less than 25 amperes.

- *d.* Determine whether local or remote operation is required. Each type of operation is described below:
- (1) Local. Use the dc power cord to connect the load directly to DC OUT receptacle J7 or J9 on the real panel (pin A (-), pin B (+) ).

(2) Remote. Use a 4-conductor cable (not supplied) to connect the remote load terminals to DC OUTPUT receptacle J6 on the front panel. Connect the load leads (power) to pins D (+) and B (-). Connect the sensing leads to pins C (-) and A (+) (fig. 2-4).

#### NOTE

At the load, be sure that the positive sensing lead is connected to the positive terminal and the negative sensing lead is connected to the negative terminal.

- e. Check to see that the standby battery is connected to BAT IN receptacle J8 on the rear panel.
- f. If a battery is to be charged, disconnect and remove the standby battery connected to

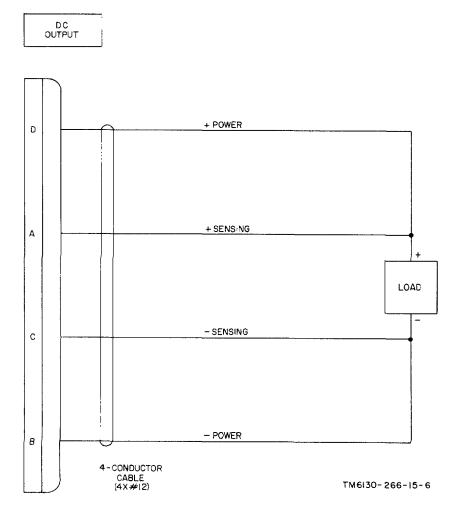


Figure 2-4. Power Supply PP-6224/U, remote cabling.

J8 and refer to paragraph 2-6c for charging instructions.

g. Check to see that the 230V-115V selector switch is in a position that corresponds to the rating of the ac power source.

#### 2-6. Operation

The power supply is used as a general purpose power supply or to charge a battery. The power supply is operated in a similar manner for both functions. After performing the procedures given in paragraph 2-5, operate the power supply as follows:

- a. Set the AC circuit breaker to ON. The AC lamp lights.
- b. Remove the cap from the DC OUTPUT ADJ potentiometer.
  - c. For battery charging, proceed as follows:
- (1) Determine the constant charging voltage value for the battery to be charged.
- (2) Set the DC circuit breaker to ON. The NORM lamp lights.
- (3) Remove the protective cap over the DC OUTPUT ADJ potentiometer. Unlock and rotate the DC OUTPUT ADJ potentiometer for the required constant charging voltage value as indicated on the OUTPUT METER. Lock the DC OUTPUT ADJ potentiometer.
  - (4) Set the DC circuit breaker to OFF.
- (5) Connect the battery to be charged to either DC OUT receptacle J7 or J9.
- (6) Set the DC circuit breaker to ON. (It is normal for the indicated charging voltage to drop because of the current limiting circuit. After the battery has received a portion of recharge, the indicated voltage will be the voltage value obtained in (3) above.
- (7) When the battery is fully charged, set the DC circuit breaker to OFF.

- d. For power supply operation, proceed as follows:
  - (1) Set the AC circuit breaker to ON.
- (2) With the equipment to be powered set to OFF, set the DC circuit breaker to ON.

#### NOTE

The desired dc output voltage value of the power supply when powering Radio Set AN/VRC-12, AN/VRC-44, AN/ VRC-45, AN /VRC-47, or AN/VRC -9 is 25.5 volts. For best performance of equipment, be sure to adjust the output voltage of the power supply to 25.5 volts when powering Radio Set AN/VRC-12, AN/VRC-44, AN/VRC-45, AN/VRC-47, or AN/VRC-49.

- (3) Remove the protective cap over the DC OUTPUT ADJ potentiometer. Unlock and rotate the DC OUTPUT ADJ potentiometer for the desired voltage value as indicated on the OUTPUT METER. Lock the DC OUTPUT ADJ potentiometer.
- (4) Set the equipment to be powered to ON. Monitor the current by holding the VOLTAGE-CURRENT SWITCH in the CURRENT position and observing the OUTPUT METER reading.
- (5) Release the VOLTAGE-CURRENT switch.

#### 2-7. Emergency Operation

An emergency condition is indicated by the on-off combinations of the three front panel indicator lamps and the OUTPUT METER indication. The following chart lists various combinations which indicate a different type of emergency condition. Except where it is so stated, normal operation continues because the load is immediately transferred to the external battery. The load is transferred back to the power supply when the emergency condition no longer exists.

| Emergency condition                     | EMER indicator lamp | AC indicator lamp     | NORM indicator lamp | OUTPUT METER                             |
|---|---------------------|-----------------------|---------------------|--|
| Low ac input voltage                    | Lights              | Goes out<br>(or dims) | Goes out            | Indicates external bat-<br>tery voltage. |
| Surges in ac input voltage <b>Note.</b> | Lights              | Goes out              | Gees out            | Indicates external bat-<br>tery voltage. |

This condition trips the AC circuit breaker. It must be reset manually before the load is transferred back to the power supply.

Emergency condition EMER indicator lamp AC indicator lamp NORM indicator lamp OUTPUT METER

Complete failure of ac in- Lights Goes out Goes out Indicates external bat-

put voltage tery voltage.

Overload (short) Goes out Lights Lights if circuit Complete los

Lights if circuit Complete loss of operbreaker doesn't ating voltage. trip. Goes out if circuit breaker trips.

Note.

There is no provision for transferring the load to the external battery.

Overheating Goes out Lights Goes out Initial loss of operat-

ing voltage until temperature falls.

#### 2-8. Shutoff

**NOTE** To shut off the power supply, proceed as follows:

a. Set the DC circuit breaker to OFF. The NORM indicator lamp will go out.

b. Set the AC circuit breaker to OFF. The AC indicator lamp will go out.

#### NOIE

Different types of failures will produce various symptoms. Refer to chapter 3 for additional information.

#### **CHAPTER 3**

#### **OPERATOR AND ORGANIZATIONAL MAINTENANCE**

#### 3-1. Scope of Maintenance

The maintenance duties assigned to the operator and organizational repairman of the equipment are listed below, together with references to the paragraphs covering the specific maintenance functions. The tools and test equipment required are listed in appendix B.

- a. Operator's daily preventive maintenance checks and services (para 3-4).
- b. Operator's weekly preventive maintenance checks and services (para 3-5).
- c. Organizational monthly preventive maintenance checks and services (para 3-6).
- d. Organizational quarterly preventive maintenance checks and services (para 3-7).
  - e. Cleaning (para 3-8).
  - f. Touchup painting (para 3-9).
  - g. Troubleshooting (para 3-10).
  - h. Replacement of indicator lamps (para 3-11).

#### 3-2. Preventive Maintenance

Preventive maintenance is the systematic care, servicing, and inspection of equipment to prevent the occurrence of trouble, to reduce downtime, and to assure that the equipment is serviceable.

a. Systematic Care. The procedures given in paragraphs 3-4 through 3-8 cover routine systematic

care and cleaning essential to proper upkeep and operation of the equipment.

b. Preventive Maintenance Checks and Services. The preventive maintenance checks and services charts (para 3-4 through 3-7) outline functions to be performed at specific intervals. These checks and services are to maintain Army electronic equipment in a combatserviceable condition: that is, in good general (physical) condition and in good operating condition. To assist operators in maintaining combat serviceability, the chart indicates what to check, how to check, and what the normal conditions are. The references column lists the paragraphs, figures, or manuals that contain detailed repair or replacement procedures. If the defect cannot be remedied by the corrective actions listed, higher category of maintenance or repair is required. Records and reports of these checks and services must be made in accordance with the requirements set forth in TM 38-750.

## 3-3. Preventive Maintenance Checks and Services Periods

Preventive maintenance checks and services of the equipment are required daily, weekly, monthly, and quarterly.

- a. Paragraph 3-4 specifies the checks and services that must be accomplished daily (or at least once each week if the equipment is maintained in standby condition).
- b. Paragraphs 3-5, 3-6, and 3-7 specify additional checks and services that must be performed on a weekly, monthly, and quarterly basis, respectively.

#### 3-4. Operator's Daily Preventive Maintenance Checks and Services Chart

| Sequence No. | Item to be inspected | Procedure  | Reference |
|--------------|----------------------|--|-----------|
| 1            | Completeness         | Check to see that the equipment is complete  | Para 1-6. |
| 2            | Exterior surfaces    | Clean the exterior surfaces, including the panel meter glasses. Check meter glass and indicator lenses for cracks. | Para 3-8. |
| 3            | Connectors           | Check the tightness of all connectors.   |           |
| 4            |                      | While making the operating checks (sequence No. 5 below), check to see that the mechanical action of               |           |

| Sequence No.    | Item to be inspected  | Procedure  | Reference                   |
|-----------------|---|--|-----------------------------|
| 5               | each switch is smooth and free of external or internal binding and that there is no excessive looseness. Also, check the meter for sticking or bent pointer.  OperationDuring operation, be alert for any abnormal indications. |  | Para 2-5<br>through 2-8.    |
| 3-5. Operator's | Weekly Preventive Mainte  | nance Checks and Services Chart  |                             |
| Sequence No.    | Item to be inspected  | Procedure  | Reference                   |
| 1<br>2          | Cables<br>Metal surfaces  | Inspect cables for chaffed, cracked, or frayed insulationInspect exposed metal surfaces for rust and corrosion.  |                             |
| 3-6. Organizati | onal Monthly Preventive Ma  | aintenance Checks and Services Chart   |                             |
| Sequence No.    | Item to be inspected  | Procedure  | Reference                   |
| 1               | Transformer terminals   | Inspect the terminals on the power transformer(s). All nuts must be tight. There should be no evidence of dirt or corrosion.                                   |                             |
| 2               | Resistors   | Inspect resistors for cracks, blistering, or other defects.  |                             |
| 3               | Gaskets and insulators  | Inspect gaskets, insulators, bushings, and sleeves for cracks, chipping, and excessive wear.   |                             |
| 4               | Terminal block  | Inspect the terminal block for loose terminals, cracks, and other defects.   |                             |
| 5<br>6          | Interior Metal surfaces   | Clean the interior of the chassis and cabinet  | Para 3-8.<br>Para 3-9.      |
| 3-7. Organizati | onal Quarterly Preventive I   | Maintenance Checks and Services Chart  |                             |
| Sequence No.    | Item to be inspected  | Procedure  | Reference                   |
| 1               | Publications  | Check to see that all publications are complete, service-<br>able, and current.  | DA Pam 310-4.               |
| 2               | Modifications   | number and current. Check DA Pam 310-4 to determine whether new applicable MWO's have been published. ALL URGENT MWO's must be applied immediately. All NORMAL | TM 38-750 and DA Pam 310-4. |

MWO's must be scheduled.

#### 3-8. Cleaning

#### **WARNING**

The fumes of TRICHLOROETHANE Provide thorough are toxic. ventilation whenever it is used; avoid prolonged or repeated breathing of vapor. Do not use near an open flame or hot surface; trichloroethane is nonflammable but heat converts the fumes to a highly toxic phosgene gas the inhalation of which could result in serious injury or death. Prolonged or repeated skin contact with trichloroethane can cause skin inflammation. When necessary, use gloves, sleeves and aprons which the solvent cannot penetrate.

Inspect the exterior of the equipment. The exterior surfaces should be free of dirt, grease, and fungus.

- a. Remove dust and other loose dirt with a clean soft cloth.
- b. Remove grease, fungus, and ground-in dirt from the case; use a cloth dampened (not wet) with trichloroethane O-T-620, Type I.
  - c. Remove dirt from plugs and jacks with a brush.

#### **CAUTION**

Do not press on the meter face (glass) when cleaning; the meter may become damaged.

d. Clean the front panel, meter, and switches; use a soft clean cloth. If necessary, dampen the cloth with water; mild soap may be used for more effective cleaning.

#### 3-9. Touchup Painting Instructions

Remove rust and corrosion from metal surfaces by lightly sanding them with fine sandpaper. Brush two thin coats of paint on the hare metal to protect it from further corrosion. Refer to the applicable cleaning and refinishing practices specified in TB 746-10.

#### 3-10. Organizational Troubleshooting

- a. General. The troubleshooting chart (b. below) will help locate trouble in the power supply. Only those corrective measures are given which the unit repairman can accomplish. If the corrective measure does not restore normal equipment performance, higher category of maintenance is required.
  - b. Troubleshooting Chart.

| Sequence No. | Symptom   | Probable trouble                                | Corrective measure            |
|--------------|---|---|-------------------------------|
| 1            | When operating on 115 or 230 volts ac, the AC or NORM lamp fails to light, but there is a voltage indication on the OUTPUT METER. | Defective<br>AC or<br>NORM<br>indicator<br>lamp | Replace<br>defective<br>lamp. |

#### 3-11. Replacement of Indicator Lamps

(fig. 2-2)

- a. Unscrew the indicator lens.
- b. Remove the defective lamp and replace it with a new one; make certain it is of the correct type. Replace the "O" ring seal (after lubricating with clear silicone grease) and indicator lens.

#### CHAPTER 4

#### **FUNCTIONING**

#### 4-1. Block Diagram

(fig. 8-2)

- a. The power supply provides a regulated 24 to 32-volt dc output required to operate an electronic equipment or to charge an external battery. The power supply will maintain a constant output voltage within 1 percent. The operating power for the power supply is 115 or 230 volts at a frequency of 50, 60, or 400 Hertz.
- b. The ac input voltage is applied, through AC input circuit breaker CB1, to main transformer T1. The outputs at the secondary windings of transformer T1 are fed to both the power regulator switch (in preregulator assembly A4) and to the auxiliary power supply (in auxiliary supply and control assembly A1). Also, AC indicator lamp DS1 is lighted.
- c. The preregulator provides high efficiency isolation between the series pass element and any input line variations. The preregulator circuit consists of two silicon controlled rectifiers A4Q1 and A4Q2, pulse-width controlled by phase angle control A4A1L1 (part of magnetic amplifier A4A1). Gating signals for phase angle control A4A1L1 are provided by gate generator A4A2, A4A1T1. The control windings are referenced to the series pass element drop of the post regulator by the comparator. Any change in the series pass element drop results in a proportional error current in the control windings and automatically corrects the series pass element drop to the preset level. The transient suppressor provides means for dissipating excess energy in filter capacitors A8C2 through A8C5 when a drive signal is received from the comparator.
- d. The auxiliary power supply provides the regulated +16 and -16 volts dc necessary to meet the low-level power requirements of the preregulator and the post regulator. In addition, a full wave bridge rectifier circuit in auxiliary supply and control assembly Al provides an unregulated nominal +32 volts dc for operation of the transfer control circuit. This circuit senses input line conditions.

- e. The output of the preregulator switch is integrated by a filter composed of inductor L1 and capacitors A8C2 through A8C5 to provide a low-level ripple dc voltage which enables high efficiency operation of the pass element. The filtered output is applied to the series pass element.
- f. The post regulator comprises a conventional pass element control gate for controlling the output voltage. This gate is controlled by voltage regulating amplifier A2Q3 (balanced differential amplifier). Changes in output voltage result in a proportional error voltage change to the amplifier. The resulting error voltage will correct the output to its preset level. The output of the series pass element is fed to energy storage capacitor A8C6 where high frequency transients are reduced and the regulator stability is improved.
- g. The post regulator also contains output current sensor resistor A6R1 and current regulating amplifier A2A1 which limit the load current to a safe predetermined level. The load step compensator differentiates the output of A2A1 so that in the event of a step load, it provides a large turn-on pulse for phase angle control A4AL1. This large pulse eliminates the drooping response characteristic inherent in a magnetic amplifier.
- h. The output circuit includes power transfer relay A6K1 which connects the output termination to an external battery in the event of a drop in line voltage. Sensing transfer relay A1K2 disconnects remote sensing, while relay A1K1 is used for the standby condition. The DC circuit breaker CB2 connects the dc output voltage to the load and also serves as a protective device. The DC OUTPUT ADJ potentiometer R3 is used to adjust the output voltage of the power supply. Indicator lamps DS2 (NORM) and DS3 (EMER) are also provided to indicate the operational status of the unit. OUTPUT METER M1 indicates both voltage and current of the post regulator, as determined by the setting of VOLTAGE-CURRENT selector switch S2, or only the voltage of an external battery supply.

The voltage of a battery to be charged is indicated prior to the application of ac power. The post regulator is designed so that if the ac power is turned on after connecting the output to a reverse polarity source (exceeding 8 volts), the transfer control will lock out, and no output current will flow. Filter network FL2 is used to eliminate radio-frequency interference.

#### 4-2. Circuit Description

(fig. 8-3)

- a. Input Power. The power supply receives 115 or 230-volts ac power from the line via AC INPUT receptacle J3 and AC circuit breaker CB1. The ac is then routed through 230V-115V selector switch S1 to transformer T1. Secondary winding 9-10 energizes AC indicator lamp DS1. From secondary winding 9-11, 42V ac is fed to auxiliary supply and control assembly Al where it is converted to 16 and 32 volts do. The 32V de output of Al energizes relay A1K1 which, in turn applies : 32V de to the coil of transfer relay A6K1 via closed contacts 7-10 of A1K1. Energizing A6K1 connects the output of the power supply, via contacts 2-4 of A6K1, to DC OUTPUT receptacle J6 and DC OUT receptacle J7. Simultaneously, NORM indicator lamp DS2, which is connected across the coil of AGK1, goes on indicating the power supply is producing a normal do output voltage.
- b. Transfer Control. A Schmitt trigger, comprising input level detectors A1Q5 and A1Q7, senses line voltage through auxiliary power supply rectifier diodes A1CR1 through A1CR4. Switching occurs when the ac input power fails completely or when the input voltage falls to 90 volts rms nominal (or 180 volts rms nominal for a 230-volt input).

Relay driver A1Q9 is cut off causing relay A1K1 to drop and deenergize relay A6K1. Deenergized contacts 4-1 of A6K1 then switch the load to the external battery connected at BATTERY in receptacle J8, and EMER indicator lamp DS3 is energized. This action insures that there is no interruption of de power being furnished to the load.

Both the AC and NORM indicator lamps go out as soon as battery power is connected to the load.

EMER indicator lamp DS3 remains on until normal ac input power is restored, at which time the load is automatically returned to the power supply.

c. Preregulator and Control. The preregulator circuit isolates the series pass element from input line variations. To maintain high efficiency, the voltage drop across the series pass element is maintained at 2.5 volts (nominal) under all loaded output voltage or current conditions. The net de voltage in filter

- capacitors A8C2 through A8C5 is controlled by varying the firing angle of SCR's A4Q1 and A4Q2. This is accomplished by interposing self-saturating magnetic amplifier A4A1L1 between gate generator A4A2, A4A1T1, and the SCR gates. Net dc control winding current determines the phase angle. A short circuit stabilizing winding provides magnetic amplifier gain relatively independent of core characteristics (temperature). This shunting reduces the frequency dependence over the range of 47 to 450 Hz to an insignificant level. The series pass element voltage drop is compared to a 2.0-volt dc reference, closing the loop. Free-wheeling diode A3CR4 and choke L1 prevent input current spiking, high-peak voltages, and excessive capacitor ripple current, while diode A3CR6 provides overvoltage protection when the voltage exceeds 36 volts.
- d. Series Pass Element. The series pass element, comprising pass driver A3Q1 and series pass stages A3Q2 and A3Q3, maintains a constant voltage or current output by receiving inputs from the voltage and current sensing circuits. The dc voltage from the preregulator passes through a conventional triple Darlington series regulator element, consisting of pass driver A3Q1, series pass A3Q2, and pass driver A2Q1, before reaching the output. The series pass element is programmed by the voltage and current controls. Since the series pass element acts as a variable resistor, changes in the ac input voltage are reflected across the element, enabling it to maintain a constant output voltage.
- e. Temperature Control. Temperature sensing switch A3S1 controls the ac line voltage applied to transformer A4A1T1 winding 1-2. This in turn, supplies the ac power required to operate squaring gate assembly A4A2. If the operating temperature of the power supply exceeds a maximum safe value, the sensing switch opens and disconnects power to A4A2. This action shuts down the power supply. Although AC indicator lamp DS1 remains on, the NORM indicator lamp DS2 goes out, indicating there is no dc output. The sensing switch closes automatically when the operating temperature falls to a safe value.
- f. Comparator. The transient suppressor comparator stage is A5Q3. The comparator has the following functions: it compares the voltage drop across the series pass element to a reference within the comparator to maintain the 2.5-volt drop across the series pass element; it furnishes a compensation signal to magnetic amplifier A4A1L1 so that the 2.5 voltage drop across the series pass element may be increased to 4 volts, when a no-load condition is indicated

by a negative signal from current regulating amplifier A2A1: and it provides the turn-on drive for the transient suppressor if the series pass element drop exceeds approximately 6 volts.

- g. Voltage and Current Control. The output voltage is compared by voltage regulating amplifier A2Q3 (differential amplifier) through a sensing divider to a 9.0volt, stable, temperature-compensated zener reference, diode A2CR1. Any error voltage is amplified, inverted by A2Q2, and applied to the pass element base, closing the loop. The output voltage is adjusted by varying the sensing divider ratio between preset limits, using DC OUTPUT ADJ potentiometer R3. The output current is sensed by low-voltage series shunt resistor A6R1. A voltage analog of the output current is developed by current regulating amplifier A2A1. The reference across CURRENT LIMIT ADJ potentiometer A2R15 is chosen so that 26.5-ampere output current opens gate diode A2CR4, providing constant current operation for any lower value of system load impedance.
- h. Sensing Circuits. Both the voltage and current sensing circuits are controlled by sensing transfer relay A1K2. If the load has been transferred to an external battery because of ac input failure, relay A1K2 trips and cuts off voltage sensing signals. This action deactivates the entire sensing circuit. Sensing is automatically resumed when normal ac input power is restored. During the period normal ac power is applied to the power supply. 32 volts de furnished by the transfer control is used to energize A1K1. This, in turn, connects dc power to power transfer relay A6K1. Once A6K1 is made, it applies the output of the power supply to DC OUTPUT receptacle J6 and DC OUT receptacle J7 and J59. The output of the power supply is filtered for radiofrequency by A2L1-A2L6, A2C8-A2C13, C10-C13, and FL2.
- (1) Voltage sensing. The voltage sensing circuit consists of DC OUTPUT ADJ potentiometer R3, voltage regulating amplifier A2Q3, current mode gate A2Q4, and pass driver A2Q1. (A2Q4 and A2Q1 are also part of the current sensing circuit.) The voltage sensing signal is routed to A2Q3 via relay A1K2 and DC OUTPUT ADJ potentiometer R3. The potentiometer, in

- conjunction with a voltage divider network, develops the difference or error signal between the actual (sensed) output voltage and the desired output voltage. (The desired output voltage is determined by the setting of R3). The error signal is then amplified before being fed to pass driver A2Q1 via current mode gate A2Q4. From A2Q1, the error signal is applied to the series pass element, allowing it to compensate for the change in output voltage.
- (2) Current sensing. The current sensing circuit consists of output current sensor A6R1, current regulating amplifier A2A1, current mode gate A2Q4, and pass driver A2Q1. (A2Q4 and A2Q1 are also part of the voltage sensing circuit.) The current sensing signal is applied to A2A1 via relay A1K2 and resistor A6R1. The difference or error signal developed across A6R1 is applied to A2A1. The amplified error signal is then fed to A2Q1 via A2Q4. The output of A2Q1 is applied to the series pass element, enabling it to provide accurate load current regulation.
- *i.* Differences Between Models. In addition to the circuit descriptions provided previously in paragraphs a. through h., Power Supply PP-6224 A/U also includes the following circuit changes for EMI reduction: (Refer to schematic diagram, fig. 8-4.).
- (1) Input power. Input and output power switching is similar to that described in para. a except that relay A6K1 utilizes dual-contacts for reduced contact bounce, greater reliability and current-carrying capability. The output of the power supply is connected via paired contacts B1-B2 and C1-C2 to DC OUT receptacles J6-D and J7-B. Further, additional output filtering and transient suppression for J6 is provided by FL2 (C1 through C6) and output line shielding.
- (2) Transfer Control. Switching operations for connecting the external battery to the load in the event of a power reduction or failure are as described in para. b except that switching is accomplished via normally-closed A6K1 contacts A2-A3, B2-B3.

#### **CHAPTER 5**

#### **DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE**

#### WARNING

When servicing the power supply, be extremely careful of the ac power line voltage terminals (115 or 230 volts). Serious injury or death may result from contact with these terminals.

## 5-1. Scope of Direct Support and General Support Maintenance

Troubleshooting at the direct support and general support levels include all the techniques outlined for organizational maintenance and any special or additional techniques required to isolate a defective part.

Paragraphs 5-2 through 5-8 provide troubleshooting procedures to be used to localize and isolate faults.

#### 5-2. Organization of Troubleshooting Procedures

- a. General. The first step in servicing a defective power supply is to localize the fault. Localization means tracing the fault to a defective stage or circuit responsible for the abnormal condition. The second step is isolation. Isolation means locating the defective part or parts. Some defective parts, such as burned resistors and arcing transformers, can often be located by sight, smell, or sound. Most defective parts, however, must be isolated by checking voltages and resistances.
- b. Localization. The tests listed below will aid in isolating the trouble. The first step in tracking trouble is to localize the defective state by one of the following methods:
- (1) Visual inspection. The purpose of visual inspection is to localize faults without testing or measuring circuit voltages or resistances. Through this inspection, the repairman frequently can discover troubles or determine the circuit in which the trouble exists. This inspection is valuable in avoiding additional damage which might occur through improper servicing methods, and in preventing future failures.

#### **CAUTION**

This equipment is transistorized; make voltage measurements only as specified in the voltage and resistance chart (para 5-8).

- (2) Voltage and resistance measurements. When measuring voltages, use tape or sleeving to insulate the entire test prod, except for the extreme tip. A momentary short circuit can damage a transistor. (For example, if the bias resistor of a transistor is shorted out, excessive current between the emitter and the base would damage the transistor.) Use the voltage and resistance chart to find the normal readings, and compare them with the readings taken.
- (3) Trouble shooting chart. The indications listed in the chart of paragraph 5-5d will aid in localizing the trouble to a component part or to an assembly.
- (4) Intermittent troubles. In all these tests, the possibility of intermittent troubles should not be overlooked. If present, this type of trouble may be made to reappear by tapping or jarring the equipment. Check the internal wiring and connections for looseness.

#### 5-3. Test Equipment Required

The following chart lists the test equipment required and the associated technical manuals for troubleshooting the power supply.

#### NOTE

Use tools and test equipment listed below until the tools and test equipment listed in Appendix B become available.

Test equipment
Multimeter TS-352R/U
Test Set, Transistor TS-1836.'U
Tool Kit, Electronic Equipment
TK-100/G
Resistor, Variable, Wire Wound
0- to 7.5-ohm, 1000-watt,
(FSN 5905-195-,1496)

Oscilloscope AN/USM-281A Transformer. Variable TF-171A Technical manual TM 11-6625-366-15 TM 11-6625-539-15 None

None

TM 11 0625-1703-15 None

#### **CAUTION**

Read the instructions in paragraph 5-9 before attempting to remove or replace parts.

#### 5-4. Checking for Shorts

- a. When to Check. Check the power supply when the AC or DC circuit breaker trips without the load connected, or when there is no dc output.
  - b. Conditions for Tests.
- (1) Disconnect the power supply from the power source.
- (2) Disconnect the load connected to DC OUT receptacle J7 or J9, or DC OUTPUT receptacle J6. Disconnect the standby battery.
- c. Resistance Measurements. Make the resistance measurements indicated in paragraph 5-7.

#### **CAUTION**

Do not make any resistance measurements on the power supply other than those specified. Tile multimeter battery can destroy the transistors by excessive current flowing through them if the multimeter is not connected according to directions.

#### 5-5. Localizing Troubles

a. General. In the troubleshooting chart that follows, the procedures are outlined for localizing troubles to a part or an assembly. The parts locations are shown in figures 5-1 through 5-9. Depending on the nature of the operational symptoms, one or more of the localizing procedures will I) e necessary. When trouble has been localized to a particular assembly, use voltage and resistance measurements to isolate the trouble to a particular part.

Probable cause

- a. No ac power is reaching AC IN-PUT receptacle J3.
- b. AC circuit breaker CB1 defective.
- c. 230V-115V selector switch S1 defective.
- d. Transformer T1 defective.
- a. Resistor A6A1R4 defective.
- b. Auxiliary supply and control assembly A1 defective.

b. Use of Chart. The troubleshooting chart (d below) supplements the troubleshooting chart in paragraph 3-10. If previous operational checks have resulted in reference to a particular item of the chart in d below, refer directly to the referenced item. If no operational symptoms are known, begin with item 1 of the troubleshooting chart and proceed until a symptom of the trouble is found.

#### CAUTION

If the operational symptoms are not known, or if they indicate the possibility of internal short circuits, make the short-circuit checks described in paragraph 5-4 before applying power.

- c. Conditions for Tests. All checks outlined in the troubleshooting chart are to be conducted with the power supply connected to the ac power source and with the dummy load across DC OUT receptacle J7.
  - d. Troubleshooting Chart.

#### NOTE

Perform the steps in the organizational troubleshooting chart in paragraph 310 before using this chart, unless the trouble has already been localized.

#### **CAUTION**

In-circuit measurements made at the test points or terminals on A1, A2 or A5 must be performed with the aid of the Extender Test Board, SM-D-943415 (fig. 5-9). To avoid equipment damage, be sure to shut off power supply when extender board is being inserted or removed.

Corrective action

- a. Check continuity of the ac power cord and repair or replace if necessary.
- b. Check CB1 and replace if neces-
- c. Check \$1 and replace if necessary.
- d. Check T1 and replace if necessary.
- a. Check and replace A6A1R4 if necessary.
- b. Check for +32V de between pin 11 and pin 17 of A1. Replace A1 if necessary.

Item No. Trouble symptom

1 AC indicator lamp DS1 fails to light when AC circuit breaker CB1 is set to ON. (230V-115V selector switch S1 set to prop-

er position.)

NORM indicator lamp DS2 fails to light. (AC indicator lamp DS1 is lighted.) Item No. Trouble symptom

3 With AC and NORM indicator lamps DS1 and DS2 lit, OUT-PUT METER M1 fails to indicate output voltage. (VOLT-AGE CURRENT switch S2 in VOLTAGE position and DC circuit breaker CB2 is ON.)

Multimeter indicates normal output voltage.

- Same as Item No. 3, except multimeter also output voltage.
- 5 OUTPUT METER M1 indicates voltage but rotating DC OUTPUT ADJ potentiometer R3 fails to change indication .

Probable cause

No dc power reaching OUTPUT

METER MI.

- a. DC circuit breaker CB2 defective. ails to indicate
- b. Auxiliary supply and control assembly A1 defective.
- c. Relay A6K1 defective.
- a. Potentiometer R3 defective.
- b. Auxiliary supply and control assembly A1 defective.
- c. Resistor A6A1R3 defective.
- d. Post regulator control assembly A2 defective.

- Corrective action
- a. Check resistor A6A1R2 and replace if necessary.
- b. Check S2 and replace if necessary.
- c. Check M1 and replace if necessary.
- a. Check CB2 and replace if necessary.
- b. Check for +28 to +32V dc between pin 15 and pin 17 of A1. Replace A1 if necessary.
- c. Check A6K1 and replace if necessary.
- a. Check R3 and replace if necessary.
- b. Check A1 and replace if necessary.
- e. Check A6A1R3 and replace if necessary.
- d. Check A2 and replace if necessary.

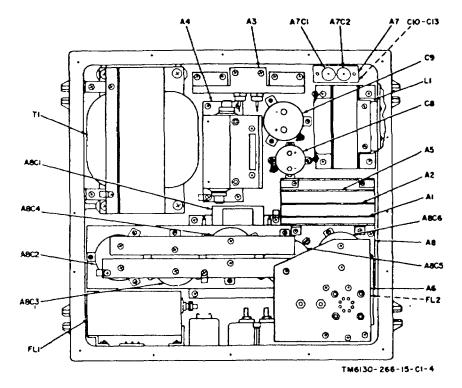


Figure 5-1. Power Supply PP-6224/U, top view, parts location.

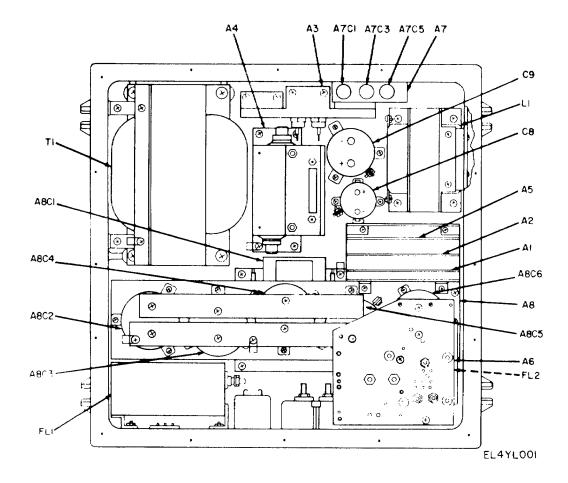


Figure 5-1.1. Power supply PP-6224A/U, top view, parts location.

#### 5-6. Isolating Trouble Within Assemblies

- a. When trouble has been localized to an assembly during the operational checks listed in the troubleshooting chart (para 5-5d), isolate the trouble to a component level by voltage measurements at the transistor terminals and other significant points.
  - b. Use the schematic (fig. 8-3 or 8-4) to trace

the circuits and isolate the faulty components. Figure 8-1 (located in back of manual) is the resistor and capacitor color code diagram.

c. The transistor terminal voltage readings were made with Multimeter TS-352B/U. A measurement that differs widely from that in the voltage and resistance chart can localize the trouble when used with the schematic diagram.

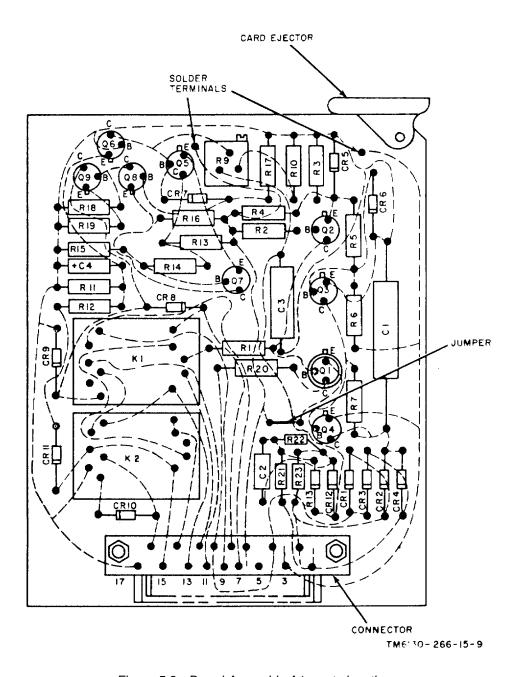


Figure 5-2. Board Assembly A1, parts location.

# 5-7. Resistance of Transformers, Inductors, and Relays

#### **CAUTION**

Make resistance measurements with input power off.

- a. The resistance values are provided as an aid to troubleshooting. When using the data, observe the following instructions:
  - (1) Before making resistance measurements,

determine whether faulty operation is due to one of these parts. To do this, follows the troubleshooting procedures (para 5-5d) and make the voltage checks given in the voltage and resistance chart.

(2) Do not use the resistance measurements as the sole basis for discarding any of these parts as defective. Because of broad winding tolerances during manufacture, resistances of identical coils may vary from the chart values, which are typical average values.

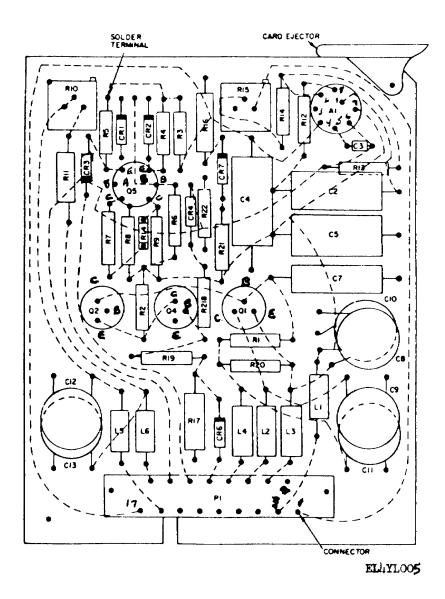


Figure 5-3. Post regular control assembly 12, parts location.

| (3) The normal resistance of replacement parts may differ slightly from the values given in the |                  |               | <i>Part</i><br>A2L3<br>A2L4<br>A2L5 | Measured between<br>terminals<br>1-2<br>1-2<br>1-2 | Dc resistance<br>(ohms)<br>Less than 1.<br>Less than 1.<br>Less than 1. |
|---|------------------|---------------|-------------------------------------|--|---|
| b. The resistances of the coils are listed below:   |                  |               | A2L6                                | 1-2  | Less than 1.  |
|   | Measured between | DC resistance | A4A1L1                              | 10-11<br>12-13                                     | 400<br>150  |
| Part  | terminals        | (ohms)        |                                     | 12-13  | 150   |
| L1  | 1-2              | Less than 1.  |                                     | 14-15  | 2   |
|   | 3-9              | 9             |                                     | 16-17  | 10  |
| T1  | 9-11             | Less than 10. |                                     | 18-19  | 10  |
|   | 12-14            | Less than 1.  | A4A1T1                              | 1-2  | 56  |
| A1K1  | 1-16             | 650           |                                     | 3-5  | 5.8   |
| A1K2  | 1-16             | 650           |                                     | 6-7  | 1.26  |
| A2L1  | 1-2              | Less than 1.  |                                     | 8-9  | 1.26  |
| A2L2  | 1-2              | Less than 1.  | A6K1                                | 3-6<br>X1-X2                                       | 428(PP-6224/U)<br>*260(PP-6224A/U)                                      |

<sup>\*</sup> Measure with DS2 NORM indicator lamp pulled out

### 5-6 Change 3

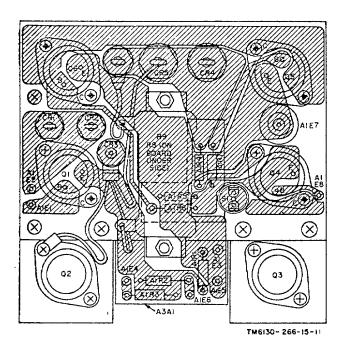


Figure 5-4. Transistor assembly A3, parts location.

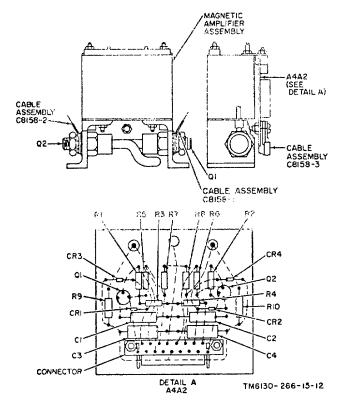


Figure 5-5. Preregular assembly A4, parts location.

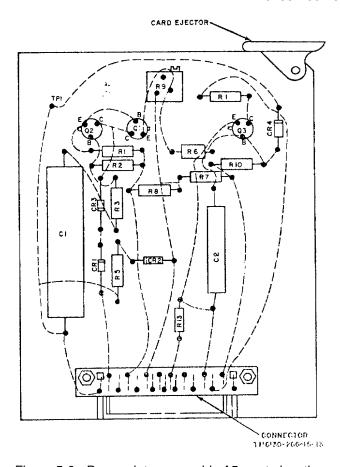


Figure 5-6. Preregulator assembly A5, parts location.

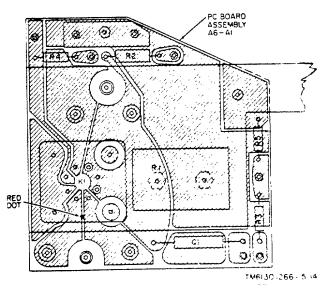


Figure 5-7. Terminal Board Assembly A6, (PP-6224/U) parts location.

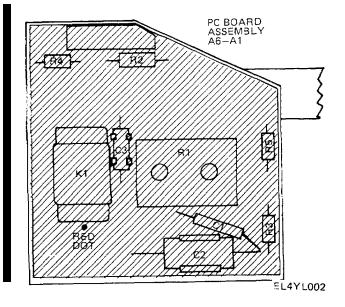


Figure 5-7.1. Terminal Board Assembly A6 (PP-6224A/U) parts location.

#### 5-8. Voltage and Resistance Chart

The voltage and resistance measurements given in the chart which follows were made under the following conditions:

a. All voltage measurements were made from the designated terminal to the designated ref-

erence point with the power supply set up as follows:

#### **CAUTION**

To avoid damage to the equipment, be sure to shut off power supply when extender board is being inserted or removed.

- (1) Extender Test Board SM-D-943415 installed for A1, A2, or A5 dynamic tests.
- (2) Power supply connected to a 115-volt ac, 60-Hz source.
  - (3) No load connected.
- (4) Power supply set for 28 volts dc, as indicated on the OUTPUT METER.
- $\,$  (5)  $\,$  230V-115V selector switch in the 115V position.
  - (6) AC circuit breaker in the ON position.
  - (7) DC circuit breaker in the ON position.
- b. The resistance measurements were made with input power turned off, the assemblies removed from the main assembly.

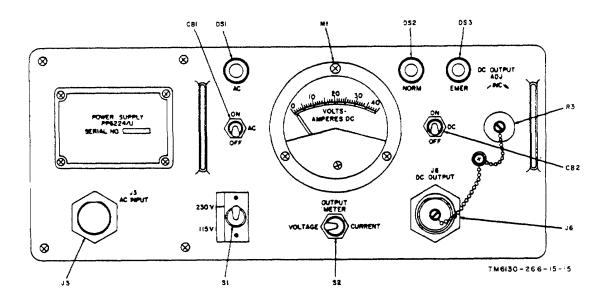


Figure 5-8. Power supply PP-622,/U front panel, parts location.

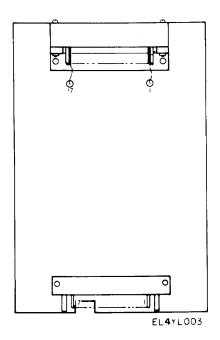


Figure 5-9. Extender Test Board. SM-D-9 13115.

c. Where two resistance readings between terminals are given, the top reading is the resistance measured with the positive multimeter lead connected to the base. The bottom reading is the resistance measured with the negative multimeter lead connected to the base. Be sure to check the actual polarity of the multimeter leads before making measurements.

d. Resistances measured at points shunted by large capacitors must be read after the multimeter ceases to drift.

| Ref des | V <sub>E</sub> | $V_{B}$ | V <sub>C</sub> | Voltage ref pt | R <sub>RE</sub>    | R <sub>BC</sub>    |
|---------|----------------|---------|----------------|----------------|--------------------|--------------------|
| A1Q1    | +16.0          | +16.5   | +28.0          | Pin 17         | <u>5K</u><br>900   | <u>4.K</u><br>750  |
| A1Q2    | +9.0           | +9.6    | +16.5          | Pin 17         | <u>4.7K</u><br>900 | <u>5.6K</u><br>800 |
| A1Q3    | 0.0            | -0.4    | -16.5          | Pin 17         | <u>1.K</u><br>850  | <u>1.1K</u><br>30K |
| A1Q4    | -16.0          | -16.5   | -34.0          | Pin 17         | <u>1.1K</u>        | <u>1.1K</u>        |
| A1Q5    | +11.0          | +11.5   | +11.2          | Pin 17         | <u>850</u><br>850  | <u>5.5K</u><br>750 |
| A1Q6    | 0.0            | 0.0     | +11.5          | Pin 17         | <u>2.8K</u><br>850 | <u>2.2K</u><br>750 |
| A1Q7    | +11.0          | +10.0   | +12.0          | Pin 17         | <u>14K</u><br>900  | <u>7.5K</u><br>800 |

| Ref des            | V <sub>E</sub> | V <sub>B</sub> | V <sub>C</sub> | Voltage ref pt | R <sub>RE</sub>  | R <sub>BC</sub>   |
|--------------------|----------------|----------------|----------------|----------------|------------------|-------------------|
|                    |                |                |                |                |                  |                   |
| A1Q8               | +12.0          | +11.2          | +3.0           | Pin 17         | <u>1K</u>        | <u>950</u>        |
| 1400               | .00            | .00            | .00            | Di- 47         | 2K               | 10K               |
| A1Q9               | +2.2           | +3.0           | +2.6           | Pin 17         | <u>4K</u><br>880 | <u>∞</u><br>800   |
| A2Q1               | +1.0           | +1.70          | +10.0          | Pin 8          | 30K              |                   |
| AZQI               | 71.0           | 1 +1.70        | +10.0<br>      | 1 111 0        | 900              | <u>∞</u><br>  825 |
| A2Q2               | -0.1           | -0.7           | -19.0          | Pin 3          | 1 <u>K</u>       | 1.1K              |
| -                  |                | _              |                |                | 4K               |                   |
| A2Q3A <sup>a</sup> | +8.8           | +9.1           | +13.0          | Pin 2          | <u>800</u>       | <u>9K</u>         |
| _                  |                |                |                |                | 1.1K             | 1K                |
| A2Q3B <sup>a</sup> | +8.5           | +9.1           | +15.0          | Pin 2          | <u>800</u>       | <u>7K</u>         |
|                    |                |                |                |                | 1.1K             | 950               |
| A2Q4               | 0.0            | 0.0            | +16.0          | Pin 2          | <u>1.1K</u>      | 10K               |
| ADA4 b             | 1/0            | \/0            | \//            | ]<br>] Dia 0   | 800              | 800               |
| A2A1 <sup>b</sup>  | V2<br>0.0      | V3<br>0.0      | -16.0          | Pin 2<br>Pin 2 |                  |                   |
|                    | V5             | V6             | -16.0<br>V1    | Pin 2          |                  |                   |
|                    | -15.0          | -5.2           | +16.0          | Pin 2          | <br>             |                   |
| A3Q5 <sup>e</sup>  | 0.0            | 0.0            | 32.5           | A8C2 (-)       | 100              | 200               |
| 71000              | 0.0            | 0.0            | 02.0           | 7,002 ()       | 100              | 200 (d)           |
| A3Q6 <sup>e</sup>  | 0.0            | 0.0            | 32.5           | A8C2 (-)       | <u>100</u>       | 200               |
|                    |                |                |                | ,              | 100              | 200 (d)           |
| A5Q1               | 0.0            | 0.0            | +15.5          | Pin 14         | <u>950</u>       | <u>∞</u>          |
|                    |                |                |                |                | 800              | 800               |
| A5Q2               | 0.0            | 0.0            | +15.5          | Pin 14         | <u>3.8K</u>      | <u>∞</u>          |
|                    |                |                |                |                | 900              | 800               |
| A5Q3               | 0.0            | -0.05          | +32.5          | Pin 8          | <u>400</u>       | <u>∞</u>          |
|                    |                |                |                |                | 400              | 800               |
|                    |                | <br>           | <br>           |                |                  | <br>              |
| SCR's only ●       | Gate           | Cath           | Anode          | Voltage ref pt | $R_{GK}$         | R <sub>AK</sub>   |
|                    |                |                |                |                |                  |                   |
| A4Q1               | -0.25          | 0.0            | -32.5          | A4A2P1-10      | 100-1K           | ∞                 |
|                    |                |                |                |                | 100-1K           | ∞                 |
| A4Q2               | -0.25          | 0.0            | -32.5          | A4A2P1-10      | 100-1K           | ∞                 |
|                    |                |                |                |                | 100-1K           | ∞                 |

a A2Q3A and, A2Q3B are in 1 case

#### 5-9. General Parts Replacement Techniques

All the parts of the power supply can be replaced without special procedures. The following precautions apply specifically to this equipment.

- a. Do not disturb the setting of any potentiometer.
- b. The power supply is transistorized. Use a pencil-type soldering iron with a 25-watt maxi mum capacity. If the iron must be used with ac use an

isolating transformer between the iron the line. Use a higher wattage soldering iron for heavier duty soldering.

#### **CAUTION**

Do not use a soldering gun; damaging voltage can be induced into components.

b Resistance data not valid

c  $R_{\text{BE}}$  and  $R_{\text{BC}}$  measurements made with A3 in circuit

d Voltage is average of square wave

e SCR voltages are waveform averages

c. Use the cross tip screwdriver (FSN 5120-529-3101) to loosen or tighten Phillips head screws. Use hand screw starter (FSN 5120-832221) to remove loosened Phillips head screws or to hold and start Phillips head screws. Use the magnetic retrieving tool (FSN 5120-545-4268) Remove lockwashers under Phillips head screws at are not removed with the screws.

#### 5-10. Use of Heat Sink

Solder transistor leads quickly; whenever wiring permits, use a heat sink (such as long-nosed pliers) between the soldered joint and the transistor. Use approximately the same length and dress of transistor leads as used originally.

# 5-11. Disassembly and Reassembly

The steps necessary to disassemble and reassemble the power supply are obvious, and no special instructions are required. However, certain procedures and precautions must be observed prior to, and during, reassembly.

- a. Make sure that all mating machine surfaces are absolutely clean.
- b. Use thermal compound (Astrodyne 829) on transformer T1, inductor L1, assemblies A3 and A4, and between all semiconductor and mounting surfaces.
- c. Lubricate all rubber seals with clear silicone grease. See that the rubber seals have not cracked, flattened, or deteriorated.
- d. Make sure that no hardware, such as nuts, bolts, and washers, have fallen inside the power supply.
- e. Apply the correct amount of torque to the attaching hardware, as indicated below, when installing the following parts:

| Part  | Torque   |
|-------|----------|
| A3CR1 | 12 inlb  |
| A3CR2 | 12 inlb  |
| A3CR3 | 12 inlb  |
| A3CR4 | 25 inlb  |
| A3CR5 | 25 inlb  |
| A3CR6 | 12 inlb  |
| A4Q1  | 10 ft-lb |
| A4Q2  | 10 ft-lb |

# 5-12. Equipment Adjustments

The following adjustments must be performed after replacing a defective part or as a result of

troubleshooting. The cover of the power supply must be removed to gain access to these adjustments.

- a. High Voltage Limit Adj Potentiometer A2-R10. To adjust A2R10, proceed as follows:
- (1) Set the 230V-115V selector switch to 115V.
- (2) Connect 115-volt ac, 60 Hz power to AC INPUT receptacle J3 using the ac power cord.
- (3) Set the AC circuit breaker to ON. The AC indicator lamp lights.
  - (4) Set the DC circuit breaker to ON.
- (5) Rotate DC OUTPUT ADJ potentiometer R3 fully clockwise.
- (6) With no load connected, adjust A2R10 until the OUTPUT METER indicates between 32 and 34 volts.
- b. Current Limit Adj Potentiometer A2R15. To adjust A2R15, proceed as follows:
- (1) Perform the procedures given in (1) through (4) above.
  - (2) Connect DC OUT receptacle J7 to load.
- (3) While holding the VOLTAGE-CURRENT switch in the CURRENT position, adjust A2R15 until the OUTPUT METER indicates 27 amperes.
- c. Transfer Point Adj Potentiometer A1R9. To adjust A1R9, proceed as follows:
- (1) Set the 230V-115V selector switch to 115V.
- (2) Connect a variable 115-volt ac, 60 Hz power source to AC INPUT receptacle J3 using the ac power cord and Transformer, variable TF-171A.
- (3) Set the AC circuit breaker to ON. The AC and NORM indicator lamps light.
  - (4) Set the DC circuit breaker to ON.
- (5) With no load connected, simultaneously adjust the ac input line voltage and A1R9 until transfer occurs with an input of between 80 and 100 volts ac. This is indicated when the NORM indicator lamp goes out and the EMER indicator lamp lights at 80 volts ac. At 100 volts ac, the EMER indicator lamp goes out and the NORM indicator lamp lights.
  - d. Preregulator Voltage Adj Potentiometer A5-R9.

To adjust A5R9, proceed as follows:

- (1) Set the 230V-115V selector switch to 115V.
- (2) Connect 103.5 volts ac, 60 Hz power to AC INPUT receptacle J3 using the ac power cord and Transformer, Variable TF-171A.
- (3) Set the AC circuit breaker to ON. The AC and NORM indicator lamps light.
  - (4) Set the DC circuit breaker to ON.
- (5) Set the PP-6224/U for 25 amperes output current at 32 volts output voltage.
- (6) Connect the negative lead of TS-352B/U to the negative terminal (-) of A8C5.

- (7) Connect the positive lead of TS-352B/U to the negative terminal (-) of A8C6.
- (8) Adjust A5R9 until TS-352B/U indicates 2.0 volts.
- e. DC OUTPUT ADJ Potentiometer R3. To adjust R3, proceed as follows:
- (1) Perform the procedures given in (1) through (4) above.
- (2) With no load connected, rotate DC OUTPUT ADJ potentiometer R3 until the OUTPUT METER indicates 25.5 volts. Lock R3 at this setting.

# **CHAPTER 6**

#### **GENERAL SUPPORT TESTING PROCEDURES**

#### 6-1. General

- a. Test procedures are prepared for use by Electronics Field Maintenance Shops and Electronic Service Organizations responsible for general support maintenance of electronic equipment to determine the acceptability of repaired equipment. These procedures set forth specific requirements that repaired equipment must meet before it is returned to the using organization. A summary of the performance standards is given in paragraph 6-8.
- b. Comply with the instructions preceding each chart before proceeding to the chart. Perform each step in sequence. Do not vary the sequence. For each step, perform all the actions required in the *Control settings* column; then perform each specific test procedure and verify it against its performance standard.

# 6-2. Test Equipment, Tools, and Materials

#### NOTE

Use tools and test equipment listed below until the tools and test equipment listed in Appendix A become available.

All test equipment, tools, materials, and other equipment required to perform the test procedures given in this chapter are listed in *a. b* and *c* below.

- a. Test Equipment.
  - (1) Digital, Voltmeter AN/GSM-64.
  - (2) Voltmeter, Meter ME-30A/V.
  - (3) Multimeter, Weston Instruments Model 281.
  - (4) Multimeter TS-352B/U.
- b. Tools. The only tools necessary for these checks are those contained in Tool Kit, Electronic Equipment TK-100/G.
  - c. Other Equipment.
    - (1) Transformer Variable TF-171A.
- (2) Simulator, Battery Variable Load Bank (FMC63743, Type K48149).
- (3) Connector, Electrical, 2 required (FSN 5935-921-3398).

# 6-3. Physical Tests and Inspection

- a. Test Equipment and Materials. None required.
- b. Test Connections and Conditions.
  - (1) No connections necessary.
- (2) Remove panels and covers as necessary for visual and actual access to all components.

| 01 11-   | Control Settings |                                  | Test massed me   | Deaferman a templand  |  |  |
|----------|------------------|----------------------------------|--|---|--|--|
| Step No. | Test equipment   | Equipment under test             | Test procedure   | Performance standard  |  |  |
| 1        | None             | Controls may be in any position. | <ul> <li>a. Inspect case and chassis for damage or missing parts, and for condition of paint.</li> </ul>   | <ul> <li>a. No damage evident or parts missing. External<br/>surfaces to be painted must not show bare<br/>metal. Panel lettering must be legible.</li> </ul> |  |  |
|          |                  |                                  | Note. Touchup painting is recommended in place of refinishing when-ever practicable; do not paint or polish screwheads, binding posts, receptacles, and other plated parts with abrasives. | 3 · · · · · · · · · · · · · · · · · · ·   |  |  |
|          |                  |                                  | <ul> <li>b. Inspect all controls and mechanical assemblies<br/>for loose or missing screws, bolts, and nuts</li> <li>c. Inspect all connectors, sockets, and receptacles</li> </ul>        | <ul><li>b. Screws, bolts, and nuts must be tight; none missing.</li><li>c. No loose parts or damage.</li></ul>  |  |  |
|          |                  |                                  | for looseness, damage,' or missing parts.  | c. No loose parts of damage.  |  |  |
| 2        | None             | Controls may be in any position. | <ul><li>a. Rotate all panel controls throughout their limits of travel.</li><li>b. Operate all switches.</li></ul>   | <ul><li>a. Controls must rotate freely, without binding<br/>or excessive looseness.</li><li>b. Switches must operate properly.</li></ul>                      |  |  |
|          |                  |                                  | •  | 1 1 7   |  |  |

# 6-4. Output Range Test

- a. Test Equipment and Materials. No test equipment or materials are required for this test, other than a 115-volt, 60 Hz power source.
- b. Test Connections and Conditions. To perform this test, the following connections and conditions must be accomplished:
  - (1) 11 5-volt, 60 Hz power source connected to AC INPUT receptacle J3 with the ac. power cord.
  - (2) No load connected.
- c. Procedure.

| Stop No  | Control Settings . Test equipment Equipment under test |  | Toot procedure   | Performance standard                          |  |
|----------|--|--|--|---|--|
| Step No. |  |  | Test procedure   |   |  |
| 1        | None   | <ul> <li>a. 230V-115V switch to 115V.</li> <li>b. AC circuit breaker to ON.</li> <li>c. DC circuit breaker to ON.</li> </ul> | Adjust DC OUTPUT ADJ potentiometer fully clockwise.        | OUTPUT METER indicates more than 32 volts dc. |  |
| 2        | None   |  | Adjust DC OUTPUT ADJ potentiometer fully counterclockwise. | OUTPUT METER indicates less than 24 volts dc. |  |

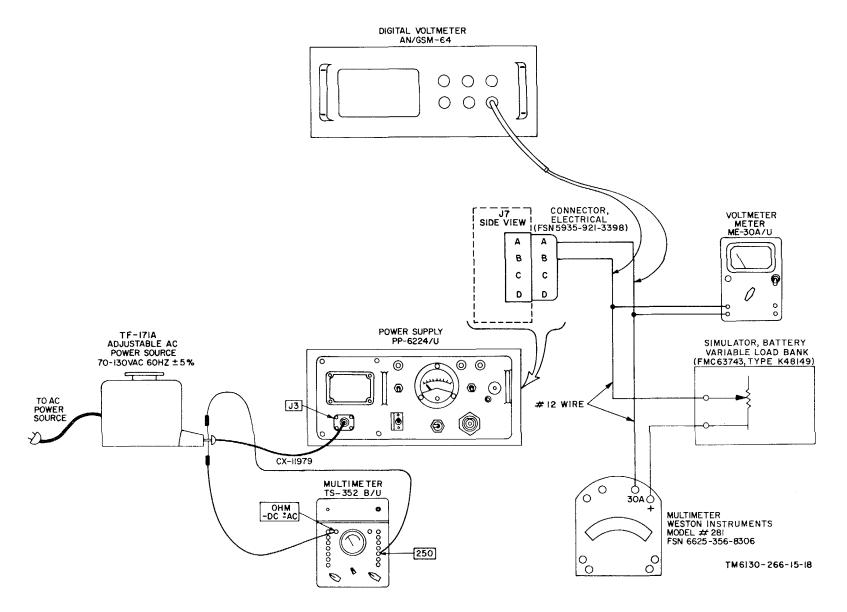


Figure 6-1. Test setup for regulation and ripple test.

# 6-5. Regulation and Ripple Test

- a. Test Equipment and Materials.
  - (1) Digital, Voltmeter AN/GSM-64.
  - (2) Transformer, Variable TF-171A.
  - (3) Voltmeter, Meter ME-30A/U.
  - (4) Multimeter TS-352B/U.
  - (5) Multimeter, Weston Instruments Model 281 (test ammeter).
  - (6) Simulator, Battery Variable Load Bank (FMC63743, type K48149).
  - (7) Connector, Electrical (FSN 5935-921-3398).
- b. Test Connections and Conditions. To perform this test, connect the equipment as shown in figure 6-1.
- c. Procedure.

| O/ N/    | Co   | ontrol Settings                                   | <del>-</del>  |   |
|----------|--|---|---|---|
| Step No. | Toot oquipment   | Equipment under teet                              | Test procedure  | Performance standard  |
| 1        | Test equipment<br>a. TF-171A set for<br>115 volt ac, 60<br>Hz.                     | Equipment under test a. 230V-115V switch to 115V. | With no load connected, adjust DC OUTPUT ADJ potentiometer for 28 volts de indication on OUTPUT METER | a. AN/GSM-64 indicates 28 volts dc.   |
|          | b. AN/GSM-64 set<br>to indicate 28<br>volts de.                                    | <ul> <li>b. AC circuit breaker to ON.</li> </ul>  |   | b. ME-30A/U indicates 140 millivolts maximum.   |
|          | c. ME-30A/U set<br>to indicate 140<br>millivolts<br>d. Load bank not<br>connected. | c. DC circuit breaker to ON.                      |   |   |
| 2        | Same as step No. 1,<br>except TF-171A<br>set for 103.5 volts<br>ac, 60 Hz.         | Same as step No. 1.                               |   | <ul><li>a. AN/GSM-64 indicates 28 volts dc ±1%.</li><li>b. ME-30A/U indicates 140 millivolts maximum.</li></ul>   |
| 3        | Same as step No. 1,<br>except TF-171A<br>set for 126 volts<br>ac, 60 Hz.           | Same as step No. 1.                               |   | <ul><li>a. AN/GSM-64 indicates 28V dc± 1%.</li><li>b. ME-30A/U indicates 140 millivolts maximum.</li></ul>  |
| 4        | Same as step No. 1,<br>except load bank<br>is connected.                           | Same as step No. 1.                               | Adjust load bank for 25 amperes indication on OUTPUT METER.   | <ul> <li>a. AN/GSM-64 indicates 28 volts dc±1.</li> <li>b. ME-30A/U indicates 140 millivolts maximum.</li> <li>c. Test ammeter indicates 25 amperes ±3%.</li> </ul>   |
| 5        | Same as step No. 4<br>except TF-171A<br>is set for 103.5<br>volts ac, 60 Hz.       | Same as step No. 4.                               | Same as step No. 4.   | <ul> <li>a. AN/GSM-64 indicates 28 volts de ±1%.</li> <li>b. ME-30A/U indicates 140 millivolts maximum.</li> <li>c. Test ammeter indicates 25 amperes ±3%.</li> </ul> |
| 6        | Same as step No. 5,<br>except TF-171A<br>is set for 126 volts<br>ac 60 Hz.         | Same as step No. 5.                               | Same as step No. 5.   | <ul> <li>a. AN/GSM-64 indicates 28 volts dc±1%.</li> <li>b. ME-30A/U indicates 140 millivolts maximum.</li> <li>c. Test ammeter indicates 25 amperes ±3%.</li> </ul>  |

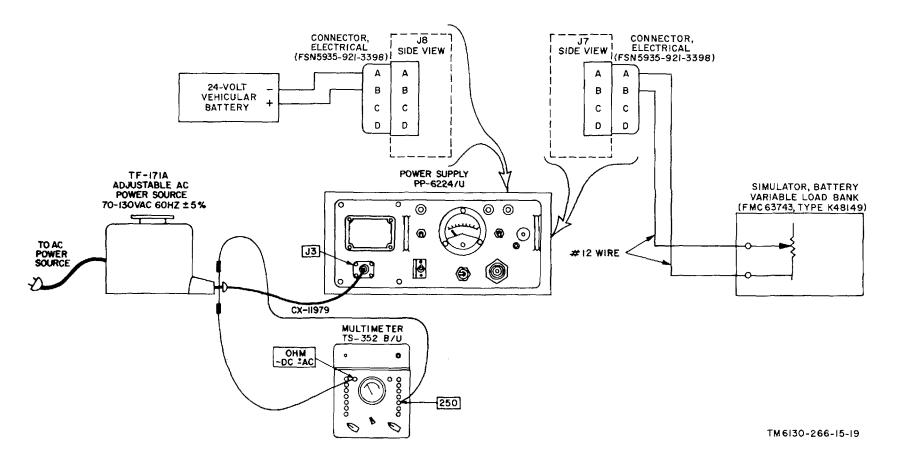


Figure 6-2. Test setup for power transfer test.

# 6-6. Power Transfer Test

- a. Test Equipment and Materials.
  - (1) Transformer, Variable TF-171A.
  - (2) Multimeter TS-358B/U.
  - (3) Simulator, Battery, Variable Load Bank (FMC63743, type K48149).
  - (4) 24-volt vehicular battery.
  - (5) Connector, Electrical (FSN 5935-921-3398, 2 required).
- b. Test Connections and Conditions. To perform this test, connect the equipment as shown in figure 6-2. (Do not connect the load bank for steps (1) through (3)).
  - c. Procedure.

| Stop No       | Co   | ontrol Settings   | Test presedure      | Performance standard  |
|---------------|--|---|---------------------|---|
| Step No.<br>1 | Test equipment  a. TF-171A set at minimum out- put position (fully counter-                | Equipment under test a. 230V-115V switch to 115V.   | Test procedure      | a. NORM indicator is not lighted.   |
|               | clockwise). b. Load bank not connected. c. Connect 24-volt vehicular battery.              | <ul><li>b. AC circuit breaker to<br/>ON.</li><li>c. DC circuit breaker to<br/>ON.</li></ul> |                     | b. EMER indicator lamp is lighted.  |
| 2             | Increase TF-171A<br>voltage to 100<br>volts ac.  | Same as step No. 1.   |                     | <ul><li>a. NORM indicator lamp lights.</li><li>b. EMER indicator lamp goes out.</li></ul> |
| 3             | Decrease TF-171A<br>voltage to 80 volts<br>ac.   | Same as step No. 1.   |                     | <ul><li>a. NORM indicator lamp goes out.</li><li>b. EMER indicator lamp lights.</li></ul> |
| 4             | Same as step No. 1,<br>except load bank<br>is connected and<br>adjusted for 25<br>amperes. | Same as step No. 1.   | Same as step No. 1. |   |
| 5             | Same as step No. 2,<br>except load bank<br>is connected and<br>adjusted for 25<br>amperes. | Same as step No. 1.   | Same as step No. 2. |   |
| 6             | Same as step No. 3,<br>except load bank<br>is connected and<br>adjusted for 25<br>amperes. | Same as step No. 1.   | Same as step No. 3. |   |

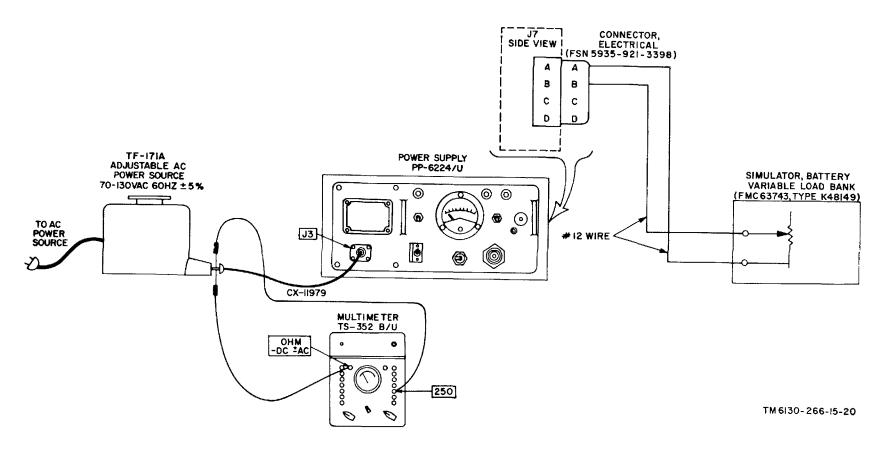


Figure 6-3. Test setup for overload protection test.

#### 6-7. Overload Protection Test

- a. Test Equipment and Materials.
  - (1) Transformer, Variable TF-171A.
  - (2) Multimeter TS-352B/U.
  - (3) Simulator Battery Variable Load Bank (FMC63743, Type K48149).
  - (4) Connector, Electrical (FSN 5935-921-3398).
- b. Test Connections and Conditions. To perform this test, connect the equipment as shown in figure 6-3.
- c. Procedure.

| Control S | ettinas |
|-----------|---------|
|-----------|---------|

|          | 001   | nuoi oeungs   |   |  |
|----------|---|---|---|--|
| Step No. |   |   | Test procedure  | Performance standard                       |
|          | Test equipment  | Equipment under test  |   |  |
| 1        | <ul> <li>a. TF-171A set for<br/>115 volts ac, 60<br/>Hz.<br/>ON.</li> </ul> | <ul> <li>a. 230V-115V switch to<br/>115V.</li> <li>b. AC circuit breaker to<br/>0.5 ohm.</li> <li>e. DC circuit breaker to<br/>ON.</li> </ul> | With DC output ADJ control set for 28.5 volts, gradually reduce the resistance of the load bank until the load bank resistance is less than | Dc ammeter indicates less than 27 amperes. |

# 6-8. Test Data Summary

The test data are summarized as follows:

- a. The 25.5-volt output must remain constant within 1 percent when the AC power source voltage is varied from 103.5 to 126.5 volts AC and the load varies from 0 to 25 amperes.
  - b. The output current must not exceed 27 amperes regardless of the load.

#### **CHAPTER 7**

# **DEPOT OVERHAUL STANDARDS**

# 7-1. Applicability of Depot Overhaul Standards

The tests outlined in this chapter are designed to measure the performance capability of a repaired equipment. Equipment that is to be returned to stock should meet the standards given in these tests.

# 7-2. Applicable References

- a. Repair Standards. Applicable procedures of depots which perform these tests, and the general standards for repaired electronic equipment given in TB Sig 355-1, TB Sig 355-2, and TB Sig 355-3 form a part of the requirements for testing this equipment.
- b. Modification Work Orders. Perform all applicable modification work orders applicable to this

equipment before making the tests specified. DA Pam 310-7 lists all available MWO'S.

# 7-3. Test Equipment Required

The test equipment and materials required in determining compliance with the requirements of this specific standard are given in paragraph 6.

# 7-4. Tests

The depot overhaul standards test procedures are the same as those given for general support (para 6-3 through 6-7). Equipment that meets the performance standards stated in these tests will furnish satisfactory operation equivalent to that of new equipment.

#### **CHAPTER 8**

# SHIPMENT, LIMITED STORAGE, AND DEMOLITION

#### TO PREVENT ENEMY USE

#### 8-1. Packaging for Shipment

The exact procedure for packaging the equipment for shipment and storage depends on materials available and conditions under which the equipment is to be shipped or stored. If the original packaging materials are available, package the equipment as shown in figure 2-1. If the original packaging materials are not available, use sturdy cartons and barrier material to protect the equipment.

# 8-2. Authority for Demolition

Demolition of the equipment will be accomplished only upon order of the commander. The destruction procedures given in paragraph 8-3 will be used to prevent further use of the equipment.

#### 8-3. Methods of Demolition

Use any of the methods of destruction given below. The time available for destruction is the major factor in determining the method of destruction.

- a. Smash. Smash the cabinet, meters, and controls. Use sledges, axes, hammers, crowbars, and other heavy tool available. Remove the top panel, and smash the internal components.
- *b. Cut.* Cut the wiring of the PP-6224/U. Use axes, handaxes, or machetes.

#### WARNING

Be extremely careful with explosives and incendiary devices. Use these items only when the need is urgent.

- c. Burn. Burn the technical manuals first. Burn as much of the equipment as is flammable; use gasoline, oil, flamethrowers, and similar materials. Pour gasoline on the cut cables and internal wiring and ignite them. Use a flamethrower to burn the spare parts, or pour gasoline on spares and ignite them. Use incendiary grenades to complete the destruction of the unit.
- *d. Dispose.* Bury or scatter destroyed parts, or throw them into nearby waterways.

Figure 8-1. Color code marking for resistors and capacitors.

(Located in back of manual.)

Figure 8-2. Power Supply PP-6624/U, block diagram (Located in back of manual.)

Figure 8-3. Power Supply PP-6624/U, schematic diagram. (Located in back of manual.)

# **APPENDIX A**

# **REFERENCES**

| DA Pam 310-4       | Index of Technical Manuals, Technical Bulletins, Supply Manuals (Types  |
|--------------------|---|
| DA Falli 310-4     | 7, 8, and 9), Supply Bulletins, and Lubrication Orders.   |
| DA Pam 310-7       | U.S. Army Index of Modification Work Orders.  |
| SB 38-100          | Preservation, Packaging, Packing and Marking Materials, Supplies, and Equipment Used by the Army.   |
| TB 746-10          | Field Instructions for Painting and Preserving Electronics Command Equipment.   |
| TM 9-213           | Painting Instructions for Field Use.  |
| TM 11-6625-203-12  | Operator and Organizational Maintenance Manual: Multimeter AN/URM-105, including Multimeter ME-77/U.                                      |
| TM 11-6625-320-12  | Operator and Organizational Maintenance Manual: Voltmeter, Meter ME-30A/U and Voltmeters, Electronic ME-30B/U and ME-30C/U, and ME-30E/U. |
| TM 11-6625-366-1.5 | Organizational, DS, GS, and Depot Maintenance Manual: Multimeter TS-352B/U.   |
| TM 11-6625-539-15  | Operator, Organizational, Field and Depot Maintenance Manual: Transistor Test Set TS-1836/U.  |
| TM 11-6625-1703-15 | Operator, Organizational, DS, GS, and Depot Maintenance Manual, including Repair Parts and Special Tools Lists: Oscilloscope AN/USM-281A. |
| TM 38-750          | The Army Maintenance Management Systems (TAMMS).  |
| TM 740-90-1        | Administrative Storage of Equipment.  |

# APPENDIX B MAINTENANCE ALLOCATION

#### Section I. INTRODUCTION

#### B-1. General

This appendix provides a summary of the maintenance operations for POWER SUPPLY PP-6224/U AND PP-6224A/U. It authorizes categories of maintenance for specific maintenance functions on repairable items and components and the tools and equipment required to perform each function. This appendix may be used as an. aid in planning maintenance operations.

#### **B-2.** Maintenance Function

Maintenance functions will be limited to and defined as follows:

- a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.
- b. Test. To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.
- d. Adjust. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.
- e. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.
- f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
- g. Install. The act of emplacing, seating, or fixing into position an item, part, module (component or assembly) in a manner to allow the proper functioning of the equipment or system.

- h. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.
- i. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance actions (yielding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.
- *j. Overhaul.* That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipments/components.

#### **B-3.** Column Entries

- a. Column 1, Group Number. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.
- b. Column 2, ,Component/Assembly. Column 2 contains the noun names of components, assemblies, subassemblies, and modules for which maintenance is authorized.
- c. Column 3, Maintenance Functions. Column 3 lists the functions to be performed on the item listed in column 2. When items are listed without maintenance functions, it is solely for purpose of having the group numbers in the MAC and RPSTL coincide.

- d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a "worktime" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate "worktime" figures will be shown for each category. The number of task-hours specified by the "worktime" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. Subcolumns of column 4 are as follows:
  - C-Operator/Crew
    O-Organizational
    F-Direct Support
    H-General Support
    D-Depot
- e. Column 5, Tools and Equipment. Column 5 specifies by code, those common tool sets (not individual tools) and special tools, test, and support equipment required to perform the designated function.
- f. Column 6, Remarks. Column 6 contains an alphabetic code which leads to the remark in section IV, Remarks, which is pertinent to the item opposite the particular code.

# B-4. Tool and Test Equipment Requirements (sec III)

- a. Tool or Test Equipment Reference Code. The numbers in this column coincide with the numbers used in the tools and equipment column of the MAC. The numbers indicate the applicable tool or test equipment for the maintenance functions.
- b. Maintenance Category. The codes in this column indicate the maintenance category allocated the tool or test equipment.
- *c. Nomenclature.* This column lists the noun name and nomenclature of the tools and test equipment required to perform the maintenance functions.
- d. National/NATO Stock Number. This column lists the National/NATO stock number of the specific tool or test equipment.
- e. Tool Number. This column lists the manufacturer's part number of the tool followed by the Federal Supply Code for manufacturers (5 digit) in parentheses.

# B-5. Remarks (sec IV)

- a. Reference Code. This code refers to the appropriate item in section II, column 6.
- b. Remarks. This column provides the required explanatory information necessary to clarify items appearing in section II.

# SECTION II. MAINTENANCE ALLOCATION CHART FOR

POWER SUPPLY PP-6224/U & PP-6224A/U

| (1)             | POWER SUPPLY (2)                                      | (3)   | F F - 02   | <u> </u>                        | (4)                      |            |      | (5)   | (6)                   |
|-----------------|---|---|------------|---------------------------------|--------------------------|------------|------|---|-----------------------|
| GROUP<br>NUMBER | COMPONENT/ASSEMBLY                                    | MAINTENANCE<br>FUNCTION   | MAIN       | MAINTENANCE CATEGORY            |                          |            | RY   | TÒÓLS<br>AND<br>EQPT  | REMARKS               |
| NOMBER          |   | TONOTION  | С          | 0                               | F                        | Н          | D    | Lui   |                       |
| 00              | POWER SUPPLY PP-6624/U AND PP-6224A/U                 | Inspect Service Inspect Test Service Adjust Replace Test Adjust Replace Repair Test Repair Overhaul | 0.1<br>0.2 | 0.5<br>0.2<br>0.5<br>0.1<br>0.2 | 0.5<br>0.1<br>0.6<br>1.0 | 1.0<br>1.0 | 40.0 | 1<br>2<br>1<br>1<br>1<br>5<br>3<br>3, 4<br>3, 4<br>5 thru 17<br>3, 4<br>3 thru 18 | A A B C B D E F G H I |
| 01              | BOARD ASSY, AUXILIARY SUPPLY (A1)<br>SM-D-667850      | Replace<br>Test<br>Repair   |            |                                 | 0.2                      | 1.0<br>1.0 |      | 3<br>5 thru 8,<br>15,16<br>3  |                       |
| 02              | POST REGULATOR CONTROL ASSY, (A2)<br>SM-D-667858      | Replace<br>Test<br>Repair   |            |                                 | 0.2                      | 1.0<br>1.0 |      | 3<br>5 thru 8<br>15, 16<br>3  |                       |
| 03              | HEAT SINK ASSY (A3) SM-D-667867                       | Replace<br>Test<br>Repair   |            |                                 | 0.2                      | 1.0<br>1.0 |      | 3<br>5 thru 8<br>15<br>3  |                       |
| 04              | MAGNETIC AMPLIFIER ASSY (A4)<br>SM-D-667881           | Replace<br>Test<br>Repair   |            |                                 | 0.2                      | 1.0<br>1.0 |      | 3<br>5 thru 8,<br>15<br>3   |                       |
| 05              | BOARD ASSY, PRE-REGULATOR<br>CONTROL (A5) SM-D-667863 | Replace<br>Test<br>Repair   |            |                                 | 0.2                      | 1.0<br>1.0 |      | 3<br>5 thru 18,<br>15,16<br>3   |                       |
| 06              | TERMINAL BOARD ASSY (A6)<br>SM-D-667894               | Replace<br>Test<br>Repair   |            |                                 | 0.2                      | 1.0        |      | 3<br>5 thru 8,<br>15<br>3   |                       |
|                 |   |   |            |                                 |                          |            |      |   |                       |

# SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS FOR POWER SUPPLY PP-6624/U & PP-6624A/U

| TOOL OR TEST<br>EQUIPMENT<br>REF CODE | MAINTENANCE<br>CATEGORY | NOMENCLATURE   | NATIONAL/NATO<br>STOCK NUMBER | TOOL NUMBER     |
|---------------------------------------|-------------------------|--|-------------------------------|-----------------|
| 1                                     | 0                       | TOOL KIT, ELECTRONIC EQUIPMENT TK-101/G  | 5180-00-064-5178              |                 |
| 2                                     | 0                       | MULTIMETER, AN/URM-105   | 6625-00-581-2036              |                 |
| 3                                     | F, H, D                 | TOOL KIT, ELECTRONIC EQUIPMENT TK-105/G  | 5180-00-610-8177              |                 |
| 4                                     | F, H, D                 | RETRIEVING TOOL, MAGNETIC  | 5120-00-545-4268              |                 |
| 5                                     | F, H, D                 | MULTIMETER, AN/USM-223/U (RS TS-352B/U)  | 6625-00-999-7465              |                 |
| 6                                     | H, D                    | OSCILLOSCOPE, AN/USM-281   | 6625-00-228-2201              |                 |
| 7                                     | H, D                    | TEST SET, SEMICONDUCTOR TS-1836( )/U   | 6625-00-159-2263              |                 |
| 8                                     | H, D                    | VOLTMETER, DIGITAL AN/GSM-64   | 6625-00-022-7894              |                 |
| 9                                     | H, D                    | MULTIMETER, ME-452/U (RS WESTON INSTR 281)   | 6625-00-519-2493              |                 |
| 10                                    | H, D                    | VOLTMETER, ELECTRONIC AN/USM-265 (RS ME-30/U)  | 6625-00-054-3487              |                 |
| 11                                    | H, D                    | CONNECTOR, ELECTRICAL (MW10M(M)A17)  | 5935-00-921-3398              |                 |
| 12                                    | H, D                    | DUMMY LOAD, ELECTRICAL DA-638/U  | 6625-00-422-2111              |                 |
| 13                                    | H, D                    | RESISTOR, VARIABLE, 0-7 1/2 OHM, 1000W   | 5905-00-195-4496              |                 |
| 14                                    | H, D                    | TRANSFORMER, VARIABLE POWER TF-510/U   | 6120-00-054-7794              |                 |
| 15                                    | H, D                    | POWER SUPPLY, PP-6224( )/U   | 6130-00-133-5879              |                 |
| 16                                    | H, D                    | EXTENDER TEST BOARD (SM-D943415)   | *                             |                 |
| 17                                    | H, D                    | BATTERY, STORAGE BB-297( )/U (4HN)   | 6140-00-059-3528              |                 |
| 18                                    | H, D                    | KEY SOCKET HEAD SCREW  | 5120-00-508-5544              |                 |
|                                       |                         | *The National Stock Number that is Missing from this list has been requested and will be added by a change to the list upon receipt. |                               |                 |
| DRESEL-MA Form                        |                         |  |                               | HISA-FM 2132-77 |

HISA-FM 2132-77

# **SECTION IV. REMARKS**

| REFERENCE<br>CODE | REMARKS   |
|-------------------|---|
| A                 | EXTERIOR  |
| В                 | INTERIOR  |
| С                 | OPERATIONAL; INPUT & OUTPUT VOLTAGE   |
| D                 | OUTPUT VOLTAGE LEVEL  |
| E                 | CABLES, LAMPS & LENS  |
| F                 | TO FAULT ISOLATE TO REPLACEABLE ASSEMBLY  |
| G                 | INTERNAL POTENTIONMETERS  |
| Н                 | ASSEMBLIES A1 THRU A6   |
| I                 | ALL EXCEPT ASSEMBLIES A1 THRU A6, CHOKE L1, FILTER FL1, & POWER TRANS\FORMER T1 |
|                   | ☆U.S. GOVERNMENT PRINTING OFFICE 1978-703-128/242                               |
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#### APPENDIX C

# ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT,

#### AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL

#### **TOOLS LIST**

# Section I. INTRODUCTION

# C-1. Scope

This appendix lists repair parts required for the performance of organizational, direct support, general support, and depot maintenance of the PP-6224/U.

#### NOTE

No special tools, test, and support equipment are required.

#### C-2. General

This Repair Parts List is divided into the following sections:

- a. Prescribed Load Allowance (PLA) -Section II. A composite listing of repair parts having quantitative allowances for initial stockage at the organizational level.
- b. Repair Parts for Organizational Maintenance Section III. A list of repair parts authorized for the performance of maintenance at the organizational level.
- c. Repair Parts for Direct Support, General Support, and Depot Maintenance-Section IV. A list of repair parts authorized for the performance of maintenance at the direct support, general support, and depot level.
- d. Index-Federal Stock Number or Reference Number Cross-Reference to Figure and Item Number or Reference Designation-Section V. A list of Federal stock numbers in ascending numerical sequence (section V.1) followed by a list of reference numbers appearing in ascending alphanumeric sequence (section V.2) crossreferenced to the illustration figure number and reference designation.
- e. Index-Reference Designation Cross-Reference to Page Number-Section VI. A list of reference designations cross-referenced to page numbers.

# C-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists:

- a. Source, Maintenance, and Recoverability Codes (SMR).
- (1) Source code indicates the selection status and source for the listed item. Source codes are:

# Code Explanation

- P —Repair parts which are stocked in or supplied from the GSA/DSA, or Army supply system and authorized for use at indicated maintenance categories.
- P2 -Repair parts which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available .in the supply system.
- P9 –Assigned to items which are NSA design controlled: unique repair parts, special tools, test, measuring and diagnostic equipment, which are stocked and supplied by the Army COMSEC logistic system, and which are not subject to the provisions of AR 380-41.
- P10 –Assigned to items which are NSA design controlled: special tools, test, measuring and diagnostic equipment for COMSEC support, which are accountable under the provisions of AR 380-41, and which are stocked and supplied by the Army COMSEC logistic system.
- M –Repair parts which are not procured or stocked, but are to be manufactured in indicated maintenance levels.
- A —Assemblies which are not procured or stocked as such, but are made up of two or more units. Such component units carry individual stock numbers and descriptions, are procured and stocked separately and can be assembled to form the required assembly at indicated maintenance categories.

# Code Explanation

- X —Parts and assemblies which are no-t procured or stocked and the mortality of which normally is below that of the applicable end item or component. The failure of such part or assembly should result in retirement of the end item from the supply system.
- X1 –Repair parts which are not procured or stocked. The requirement for such items will be filled by use of the next higher assembly or component.
- X2 —Repair parts which are not stocked, The indicated maintenance category requiring such repair parts will attempt to obtain same through cannibalization. Where such repair parts are not obtainable through cannibalization. Where such repair parts are not obtainable through cannibalization, requirements will be requisitioned, with accompanying justification, through normal supply channels.
- G —Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not he stocked above DS and GS level or returned to depot supply level.
- (2) Maintenance code indicates the lowest category of maintenance authorized to install the listed item, The maintenance level codes are:

| Code | Explanation                 |
|------|-----------------------------|
| C    | Operator/Crew               |
| O    | Organizational Maintenance  |
| F    | Direct Support Maintenance  |
|      | General Support Maintenance |
| D    | Depot Maintenance           |

(3) Recoverability code indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are:

# Code Explanation

- R-Repair parts and assemblies that are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.
- S-Repair parts and assemblies that are economically repairable at DSU and GSU activities and which normally are furnished by supply on an exchange basis. When items are determined by GSU to be uneconomically reparable, they will be evacuated to a depot for evaluation and analysis before activities.
- T –High dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.
- U-Repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, or high dollar value reusable casing or castings.
- b. Federal Stock Number. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes..

- c. Description. Indicates the Federal item name and any additional description of the item required. The index number has been included as "same as" items. A part number or other reference number is followed by the applicable five digit Federal supply code for manufacturers in parentheses.
- d. Unit of Measure(U/M). A two character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g. ft, ea, pr, etc.
- e. Quantity Incorporated in Unit. Indicates quantity of the item used in the PP-6624/U. Subsequent appearances of the same item in the same assembly are indicated by the letters "REF."
  - f. 15-day Organizational Maintenance Allowances.
- (1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the allowance columns. Items authorized for use as required, but not for initial stocakage, are identified with and asterisk in the allowance column.
- (2) The quantitive allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.
- (3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by coverting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts and quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 12: for 140 equipments multiply 12 by 1.40 or 16.80 rounded off to 17 parts required.
- (4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be

forwarded to Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-ME-NMP-EM, Fort Monmouth, N.J., 07703 for exception or revision to the allowance list. Revisions to the range of items authorized will be made by the USAECOM National Maintenance Point based upon engineering experience, demand data, or TAERS information.

g. 30-Day DS/GS Maintenance Allowances.

#### NOTE

# Allowances in GS Column are for GS maintenance only.

- (1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the applicable allowance columns. Items authorized for use as required, but not for initial stockage, are identified with an asterisk in the allowance column.
- (2) The quantitative allowances for DS/GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.
- (3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.
- h. 1-Year Allowances Per 100
  Equipments/Contingency Planning Purposes. Indicates opposite the first appearance of each item the total quantity required for distribution and contingency planning purposes. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one year.
- i. Depot Maintenance Allowance Per 100
  Equipments. Indicates opposite the first appearance of each item the total quantity authorized for depot maintenance of 100 equipments. Subsequent appearances of the same item will have the letters "REF" in the allowance column. Items authorized for use as required but not for initial

stockage are identified with an asterisk in the allowance column.

#### j. Illustrations.

- (1) Figure number. Indicates the figure number of the illustration in which the item is shown.
- (2) Item number or reference designation. Indicates the reference designation used to identify the item in the illustration.

# C-4. Special information

Repair parts mortality is computed from failure rates derived from experience factors with ,the individual parts in a variety of equipments. Variations in the specific application and periods of use of electronics equipment, the fragility of electronic piece parts, plus intangible material and quality factors intrinsic to the manufacture of electronic parts, do not permit mortality to be based on hours of end item use. However, long periods of continuous use under adverse conditions are likely to increase repair parts mortality.

# C-5. Location of Repair Parts

- a. This appendix contains two cross reference indexes (see V. and see VI) to be used to locate a repair part when either the Federal stock number, reference number (manufacturer's part number), or reference designation is known. The first column in each index is prepared in numerical or alphanumeric sequence in ascending order. Where a Federal stock number is listed, refer to section V.1. Where a Federal stock number is not listed, refer to section V.2.
- b. When the Federal stock number or reference number is known, follow the procedures given in (1.) and (2) below.
- (1) Refer to section V.1 (index of Federal stock numbers) or section V.2 (index of reference numbers) and note the applicable figure and reference designation.
- (2) When the reference designation is determined, refer to the reference designation index (sec VI). The reference designations are listed in alphanumeric ascending order and are cross referenced to the page number on which they appear in the repair parts lists (sec III and see IV). Refer to the page number noted in the index and locate the reference designation in the repair parts list (col. 7b, Repair Parts for Organizational Maintenance or co]. 10b, Repair Parts for Direct Support, General Support and Depot Main-

tenance). If the Description column indicates that it is a "SAME AS" item, locate the first appearance of the item by the index number referenced.

- c. When the reference designation is known, follow the procedures given in b(2) above.
- d. When neither the Federal stock number, reference number, nor reference designation is known, identify the part in the illustration and follow directions given in c above or scrutinize column 3 of the repair parts lists (sec III and sec IV).

# C-6. Federal Supply Code for Manufacturers

| Code  | Manufacturer's name                         |
|-------|---|
| 06540 | Amatom Electronic Hardware Div of Nite Corp |

| Code      | Manufacturer's name                    |
|-----------|--|
|           | Ceramaseal Inc                         |
| 08289     | Blinn Delbert Co Inc The               |
|           | Culterhammer Inc                       |
| 18038     | Digital Electronics Inc                |
| 70318     | Allmetal Screw Products Co Inc         |
|           | Cambridge Thermionic Corp              |
| 75247     | Kelley D N and Son Inc                 |
|           | Bendix Corp Electrical Components Div  |
| 79963     | Zierick Mfg Co                         |
|           | Army Electronics Command               |
| 81349     | Mil. Spec. Promulgated by Std. Div     |
|           | Dir. of Logistics Serv DSA             |
| 81350     | Joint Army Navy Spec. Prom by Std      |
| Div Dir o | of Logistics Serv DSA                  |
| 88044     | Aeronautical Standards Group Dept of   |
|           | Navy and Air Force                     |
| 96906     | Mil. STd. Promulgated by Std. Div Dir. |
|           | of Logistics Serv DSA                  |
| 99392     | S T M Corp                             |

# SECTION II. PRESCRIBED LOAD ALLOWANCE

| (1)<br>FEDERAL | (2) DESCRIPTION                         | M   | ;)<br>15-DA\<br>IAINT. AL |       | :F     |
|----------------|---|-----|---------------------------|-------|--------|
| STOCK          | USABLE ON                               | (a) | (b)                       | (c)   | (d)    |
| NUMBER         | CODE                                    | 1-5 | 6-20                      | 21-50 | 51-100 |
| 5995-466-0217  | POWER CORD, DC CX-12342/U               |     |                           |       | 1      |
| 6240-155-7836  | LAMP, INCANDESCENT: MS25237-327 (96906) |     | 1                         | 1     | 2      |
| 6150-135-4555  | POWER CORD, AC CX-11979/U               |     |                           |       | 1      |
|                |   |     |                           |       |        |
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# SECTION III. REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE

| (1)<br>SMR<br>Code | (2)<br>Federal Stock No. | (3)<br>DESCRIPTION   | (4)<br>UNIT<br>OF | (5)<br>QTY<br>INC |            | AY ORG      | 6)<br>ANIZATIO<br>ANCE AL |               |                    | (7) ILLUSTRATIONS                     |
|--------------------|--------------------------|--|-------------------|-------------------|------------|-------------|---------------------------|---------------|--------------------|---------------------------------------|
|                    |                          | USABLE ON REFERENCE NUMBER & MFR CODE CODE                   | MEAS              |                   | (a)<br>1-5 | (b)<br>6-20 | (c)<br>21-150             | (d)<br>51-100 | (a)<br>FIG.<br>NO. | (b) ITEM NO. OR REFERENCE DESIGNATION |
|                    | 6130-133-5879            | A001 POWER SUPPLY ASSY PP-6624/U This item is nonexpendable) | 1-1               |                   |            |             |                           |               |                    |                                       |
| P-O                | 6240-155-7836            | A370 LAMP, INCANDESCENT: MS25237-327 (96906)                 | EA                | 3                 | *          | 1           | 1                         | 2             | 5-8                | DS1                                   |
| P-O                | 6240-155-7836            | A371 LAMP, INCANDESCENT: SAME AS A370                        | EA                | REF               | REF        | REF         | REF                       | REF           | 5-8                | DS2                                   |
| P-O                | 6240-155-7836            | A372LAMP, INCANDESCENT: SAME AS A370                         | EA                | REF               | REF        | REF         | REF                       | REF           | 5-8                | DS3                                   |
| P-O                | 6210-151-5246            | A376 LENS: LC36GD2 (81349)                                   | EA                | 1                 | *          | *           | *                         | *             |                    | MP14                                  |
| P-O                |                          | A377 LENS: LC36YD2 (81349)                                   | EA                | 1                 | *          | *           | *                         | *             |                    | MP15                                  |
| P-O                |                          | A378 LENS: LC36RD2 (81349)                                   | EA                | 1                 | *          | *           | *                         | *             |                    | MP16                                  |
| P-O                | 6150-135-4555            | A402 POWER CORD, AC CX-11979/U                               | EA                | 1                 | *          | *           | *                         | 1             |                    | W1                                    |
| P-O                | 5995-466-0217            | A403 POWER CORD, DC CX-12342/U                               | EA                | 1                 | *          | *           | *                         | 1             |                    | W2                                    |
|                    |                          |  |                   |                   |            |             |                           |               |                    |                                       |
|                    |                          |  |                   |                   |            |             |                           |               |                    |                                       |
|                    |                          |  |                   |                   |            |             |                           |               |                    |                                       |
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|                    |                          |  |                   |                   |            |             |                           |               |                    |                                       |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK |        | (3)<br>DESCRIPTION                                       |           | (4)<br>UNIT<br>OF | (5)<br>QTY<br>INC IN |             | (6)<br>Y DS N<br>OWAN |        |      | (7)<br>AY GS I<br>LOWAI |        | (8)<br>1-YR<br>ALW     | (9)<br>DEPOT<br>MAINT | ILL                | (10)<br>USTRATIONS              |
|--------------------|-------------------------|--------|--|-----------|-------------------|----------------------|-------------|-----------------------|--------|------|-------------------------|--------|------------------------|-----------------------|--------------------|---------------------------------|
|                    | NUMBER                  |        |  | USABLE ON | MEAS              | UNIT                 | (a)<br>1-20 | (b)                   | (c)    | (a)  | (b)                     | (c)    | PER<br>EQUIP<br>CNTGCY |                       | (a)<br>FIG.<br>NO. | (b)<br>ITEM NO. OR<br>REFERENCE |
|                    |                         | REFERE | NCE NUMBER & MFR/ CODE                                   | CODE      |                   |                      | 1-20        | 21-50                 | 51-100 | 1-20 | 21-50                   | 51-100 |                        | EQUIP                 |                    | DESIGNATION                     |
|                    | 6130-133-5879           | A1     | POWER SUPPLY ASSY<br>PP-6224/u<br>(THIS ITEM IS NONEXPEN | IDABLE)   |                   |                      |             |                       |        |      |                         |        |                        |                       |                    | 1-1                             |
| H-D                |                         | A2     | BRACKET, ANGLE:<br>C8263 (18038)                         |           | EA                | 1                    |             |                       |        |      |                         |        |                        |                       |                    | MP1                             |
| X2-D               |                         | A3     | SCREW, MACHINE:<br>MS3212-53 (96906)                     |           | EA                | 3                    |             |                       |        |      |                         |        |                        |                       |                    | Н3                              |
| X2-D               |                         | A4     | BOLT, MACHINE:<br>MS35303-7 (96906)                      |           | EA                | 3                    |             |                       |        |      |                         |        |                        |                       |                    | H3                              |
| X2-D               | 53104-09-4058           | A5     | WASHER, FLAT:<br>MS27183-10 (96906)                      |           | EA                | 3                    |             |                       |        |      |                         |        |                        |                       |                    | Н3                              |
| X2-D               | 5310-582-5965           | A6     | WASHER, DOCK:<br>MS35338-44 (96906)                      |           | EA                | 3                    |             |                       |        |      |                         |        |                        |                       |                    | Н3                              |
| M-D                |                         | A7     | BRACKET, BOARD SUPPO<br>8186 (18038)                     | DRT:      | ER                | 1                    |             |                       |        |      |                         |        |                        |                       |                    | MP2                             |
| X2-D               | 5305-984-6191           | A8     | SCREW, MACHINE:<br>MS35206-243 (96906)                   |           | EA                | 1                    |             |                       |        |      |                         |        |                        |                       |                    | H1                              |
| X2-D               | 5310-045-3299           | A9     | WASHER, LOCK:<br>MS35338-42 (96906)                      |           | EA                | 1                    |             |                       |        |      |                         |        |                        |                       |                    | H1                              |
| X2-D               | 5310-803-8544           | A10    | WASHER, FLAT:<br>MS27183-7 (96906)                       |           | EA                | 1                    |             |                       |        |      |                         |        |                        |                       |                    | H1                              |
| P-P                | 5910-822-5683           | A10A   | CAPACITOR, FIXED:<br>CK63AW103M (81349)                  |           | EA                | 4                    | *           | *                     | *      | *    | *                       | *      | *                      | *                     | 5-1                | C10                             |
| P-F                | 5910-822-5683           | A10B   | CAPACITOR, FIXED:<br>SAME AS A10A                        |           | EA                | REF                  | REF         | REF                   | REF    | REF  | REF                     | REF    | REF                    | REF                   | 5-1                | C11                             |
| P-F                | 5910-822-5683           | A10C   | CAPACITOR, FIXED:<br>SAME AS A10A                        |           | EA                | REF                  | RE F        | REF                   | REF    | REF  | REF                     | REF    | REF                    | REF                   | 5-1                | C12                             |
| P-F                | 5910-822-5683           | A10E   | CAPACITOR, FIXED:<br>SAME AS A10A                        |           | EA                | REF                  | REF         | REF                   | REF    | REF  | REF                     | REF    | REF                    | REF                   | 5-1                | C13                             |
| P-F                |                         | A11    | CAP, RECEPTACLE: 10-101960-14-3 (07601)                  |           | EA                | 1                    | *           | *                     | *      | *    | *                       | *      | 4                      | 5                     |                    | MP3                             |
| X2-D               | 5305-984-4988           | A12    | SCREW, MACHINE:<br>MS35206-228 (96906)                   |           | EA                | 1                    |             |                       |        |      |                         |        |                        |                       |                    | H1                              |
|                    |                         |        |  |           |                   |                      |             |                       |        |      |                         |        |                        |                       |                    |                                 |
|                    |                         |        |  |           |                   |                      |             |                       |        |      |                         |        |                        |                       |                    |                                 |
|                    |                         |        |  |           |                   |                      |             |                       |        |      |                         |        |                        |                       |                    |                                 |
|                    |                         |        |  |           |                   |                      |             |                       |        |      |                         |        |                        |                       |                    |                                 |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |        | (3)<br>DESCRIPTION                                |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>Ay ds N<br>Lowan |               |             | (7)<br>AY GS I<br>LLOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|--------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERE | ENCE NUMBER & MFR CODE                            | USABLE ON<br>CODE | IVILAS                    | ONIT                         | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50             | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5310-045-4007                     | A13    | WASHER, LOCK:<br>MS35338-41 (96906)               |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | H1                                 |
| А-Н                |                                   | A14    | CAPACITOR ASSEMBLY:<br>C8108 11803B)              |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | A7                                 |
| X2-D               |                                   | A15    | SCREW, MACHINE;<br>MS3212-25 (96906)              |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | H2                                 |
| X2-D               | 5310-596-7693                     | A16    | WASHER, LOCK:<br>MS35335-31 (96906)               |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | H2                                 |
| X2-D               | 5310-934-9757                     | A17    | NUT, PLAINS HEXAGON:<br>MS35649-282 (96906)       |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | H2                                 |
| M-D                |                                   | A18    | BRACKET, MOUNTING:<br>C8169 (18038)               |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | A7MP1                              |
| P-F                |                                   | A19    | CAPACITOR, FIXED, PAPER:<br>CP13A3KB105K1 (81349) |                   | EA                        | 2                            | *           | 1                       | 1             | *           | 1                        | 1             | 16                         | 10                             | 5-1         | A7C1                               |
| X2-D               | 5310-687-6398                     | A20    | NUT, PLAIN. HEXAGON:<br>MS25082-5 (96906)         |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | A7H1                               |
| X2-D               | 5310-167-0721                     | A21    | WASHER, LOCK:<br>M535333-41 (96906)               |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | A7H1                               |
| P-F                |                                   | A22    | CAPACITOR, FIXED, PAPER:<br>SAME AS A19           |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                      | REF           | REF                        | REF                            | 5-1         | A7C2                               |
| X2-D               | 5310-687-6398                     | A23    | NUT, PLAIN, HEXAGON:<br>SAME A5 A20               |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | A7H1                               |
| X2-D               | 5310-167-0721                     | A24    | WASHER, LOCK:<br>SAME AS A21                      |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | A7H1                               |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |        | (3)<br>DESCRIPTION  |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>Ay ds N<br>Lowan |               |             | (7)<br>AY GS N<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERE | NCE NUMBER & MFR CODE   | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                |                                   | A-25   | TERMINAL, STANDOFF: 4079-1-05-19 (71279)                      |                   | EA                        | 2                            | *           | *                       | 2             | *           | *                       | 2             | 10                         | 8                              |             | A7E1                               |
| P-F                |                                   | A-26   | TERMINAL, STANDOFF:<br>SAME AS A25                            |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A7E2                               |
| А-Н                |                                   | A-27   | CAPACITOR ASSEMBLY:<br>D8117 (18038)                          |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8                                 |
| X2-D               | 5305-94-6193                      | A28    | SCREW, MACHINE:<br>MS35206245 (96906)                         |                   | EA                        | 8                            |             |                         |               |             |                         |               |                            |                                |             | H8                                 |
| X2-D               | 5310-045-3299                     | A29    | WASHER, LOCK:<br>SAME AS A9                                   |                   | EA                        | 8                            |             |                         |               |             |                         |               |                            |                                |             | H8                                 |
| M-D                |                                   | A30    | BUSS BAR:<br>B8152 (18038)                                    |                   | EA                        | 4                            |             |                         |               |             |                         |               |                            |                                |             | A8MP1                              |
| X2-D               | 5305-989-6265                     | A31    | SCREW, MACHINE:<br>MS35207-262 (96906)                        |                   | EA                        | 4                            |             |                         |               |             |                         |               |                            |                                |             | A8H4                               |
| X2-D               | 5310-045-3296                     | A32    | WASHER, LOCK:<br>MS535338-43 (96906)                          |                   | EA                        | 4                            |             |                         |               |             |                         |               |                            |                                |             | A8H4                               |
| P-F                |                                   | A33    | CAPACITOR, FIXED:<br>CH08A1NC126J (81349)                     |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 5                          | 10                             | 5-1         | A8C1                               |
| P-F                |                                   | A34    | CAPACITOR, FIXED,<br>ELECTROLYTIC:<br>20000-50-8AMPS (99392)1 |                   | EA                        | 5                            | 2           | 2                       | 3             | 2           | 2                       | 3             | 40                         | 25                             | 5-1         | A8C2                               |
| X2-D               | 5305-889-3000                     | A35    | SCREW, MACHINE:<br>MS35206-230 (96906)                        |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| X2-D               | 5310-209-0788                     | A36    | WASHER, LOCK:<br>MS35335-30 (96906)                           |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |             | (3)<br>DESCRIPTION                        |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS M<br>LOWAN |               |             | (7)<br>Ay GS N<br>Lowan |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|-------------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE N | NUMBER & MFR CODE                         | USABLE ON<br>CODE | III.Z. (O                 | 0                            | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5310-934-9747                     |             | Г, PLAIN, HEXAGON:<br>35649-262 (96906)   |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| P-F                |                                   |             | PACITOR, FIXED,<br>CTROLYTIC: SAME AS A34 | ļ                 | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-1         | A8C3                               |
| X2-D               | 5305-889-3000                     |             | REW, MACHINE:<br>ME AS A35                |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| X2-D               | 5310-209-0788                     |             | SHER, LOCK:<br>ME AS A36                  |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| X2-D               | 5310-934-9747                     |             | T, PLAIN, HEXAGON:<br>ME AS A37           |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| P-F                |                                   |             | PACITOR, FIXED,<br>CTROLYTIC; SAME AS A34 | ŀ                 | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-1         | A8C4                               |
| X2-D               | 5305-889-3000                     |             | REW, MACHINE:<br>ME AS A35                |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| X2-D               | 5310-209-0788                     |             | SHER, LOCK:<br>ME AS A36                  |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| X2-D               | 5310-934-9747                     |             | Г, PLAIN, HEXAGON:<br>ИЕ AS A37           |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| P-F                |                                   |             | PACITOR, FIXED,<br>CTROLYTIC: SAME AS A34 | 4                 | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REP           | REF                        | REF                            | 5-1         | A8C5                               |
| X2-D               | 5305-889-3000                     |             | REW, MACHINE:<br>ME AS A35                |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| X2-D               | 5310-209-0788                     |             | SHER, LOCK:<br>ME AS A36                  |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |        | (3)<br>DESCRIPTION                               |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS N<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERE | NCE NUMBER & MFR CODE                            | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5310-934-9747                     | A49    | NUT, PLAIN, HEXAGON:<br>SAME AS A37              |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| P-F                |                                   | A50    | CAPACITOR, FIXED,<br>ELECTROLYTIC: SAME AS A3    | 34                | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-1         | A8C6                               |
| X2-D               | 5305-889-3000                     | A51    | SCREW, MACHINE:<br>SAME AS A35                   |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| X2-D               | 5310-209-0788                     | A52    | WASHER, LOCK:<br>SAME AS A36                     |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| X2-D               | 5310-934-9747                     | A53    | NUT, PLAIN, HEXAGON:<br>SAME AS A37              |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| M-D                |                                   | A54    | CAPACITOR MTG BRACKET<br>ASSEMBLY: D8162 (18038) |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8H1                               |
| M-D                | 5340-951-1532                     | A57    | CLIP, COMPONENT:<br>M517160-36 (96906)           |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A8A1A1MP2                          |
| X2-D               | 5320-117-6815                     | A58    | RIVET:<br>MS20470AD3-4 (96906)                   |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A8A1A1H2                           |
| P-D                |                                   | A59    | FASTENER:<br>SMB169134 (80063)                   |                   | EA                        | 19                           |             |                         |               |             |                         |               |                            |                                | 95          | A8A1AMP3                           |
| P-D                |                                   | A60    | FASTENER:<br>SAME AS A59                         |                   | EA                        | REF                          |             |                         |               |             |                         |               |                            |                                | REF         | A8A1A1MP4                          |
| P-D                |                                   | A61    | FASTENER:<br>SAME AS A59                         |                   | EA                        | REF                          |             |                         |               |             |                         |               |                            |                                | REF         | A8A1A1MP5                          |
| P-D                |                                   | A62    | FASTENER:<br>SAME AS A59                         |                   | EA                        | REF                          |             |                         |               |             |                         |               |                            |                                | REF         | APA1A1MP6                          |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |                        | (3)<br>DESCRIPTION |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS M<br>LOWAN |               |             | (7)<br>PAY GS N |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN     | (a)         | (10) ILLUSTRATIONS (b)                  |
|--------------------|-----------------------------------|------------------------|--------------------|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-----------------|---------------|----------------------------|-------------------------|-------------|---|
|                    | NUMBER                            | REFERENCE NUMB         | BER & MFR CODE     | USABLE ON<br>CODE | IVIEAS                    | UNIT                         | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50    | (c)<br>51-100 | EQUIP<br>CNTGCY            | ALW PER<br>100<br>EQUIP | FIG.<br>NO. | ITEM NO. OR<br>REFERENCE<br>DESIGNATION |
| P-D                |                                   | A63 FASTENE<br>SAME AS |                    |                   | EA                        | REF                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A 1MP7                              |
| P-D                |                                   | A64 FASTENI<br>SAME AS |                    |                   | EA                        | REF                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A1MP8                               |
| P-D                |                                   | A65 FASTENE<br>SAME AS |                    |                   | EA                        | REF                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A1MP9                               |
| P-D                |                                   | A66 FASTENE<br>SAME AS |                    |                   | EA                        | REF                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A1MP10                              |
| P-D                |                                   | A67 FASTENI<br>SAME AS |                    |                   | EA                        | REF                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A1MP11                              |
| P-D                |                                   | A68 FASTENE<br>SAME AS |                    |                   | EA                        | REP                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A1MP12                              |
| P-D                |                                   | A69 FASTENI<br>SAME AS |                    |                   | EA                        | REF                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A1MP13                              |
| P-D                |                                   | A76 FASTENE<br>SAME AS |                    |                   | EA                        | REF                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A1MP14                              |
| P-D                |                                   | A71 FASTENI<br>SAME AS |                    |                   | EA                        | REF                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A1MP15                              |
| P-D                |                                   | A72 FASTENI<br>SAME AS |                    |                   | EA                        | REF                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A1MP16                              |
| P-D                |                                   | A73 FASTENI<br>SAME AS |                    |                   | EA                        | REF                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A1MP17                              |
| P-D                |                                   | A74 FASTENI<br>SAME AS |                    |                   | EA                        | REF                          |             |                         |               |             |                 |               |                            |                         | REF         | A8A1A1MP18                              |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                         |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS M<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-C                |                                   | A15 FASTENER:<br>SAME AS A59               |                   | EA                        | REF                          |             |                         |               |             |                         |               |                            |                                | REF         | A8A1A1MP19                         |
| P-D                |                                   | A76 FASTENER:<br>SAME AS A59               |                   | EA                        | REF                          |             |                         |               |             |                         |               |                            |                                | REF         | A8A1A1MP20                         |
| P-D                |                                   | A77 FASTENER:<br>SAME AS A59               |                   | EA                        | REF                          |             |                         |               |             |                         |               |                            |                                | REF         | ABA1A1MP21                         |
| M-D                |                                   | A78 CLAMP:<br>SMB450392 (80063)            |                   | EA                        |                              |             |                         |               |             |                         |               |                            |                                |             | A8MP2                              |
| X2-D               | 5305-889-3000                     | A79 SCREW, MACHINE:<br>SAME AS A35         |                   | EA                        | 3                            |             |                         |               |             |                         |               |                            |                                |             | A8H3                               |
| X2-D               | 5310-045-4007                     | A80 WASHER, LOCK:<br>SAME AS A13           |                   | EA                        | 3                            |             |                         |               |             |                         |               |                            |                                |             | A8H3                               |
| X2-D               | 5310-082-1404                     | A81 WASHER, FLAT:<br>M527183-6 (96906)     |                   | EA                        | 3                            |             |                         |               |             |                         |               |                            |                                |             | A8H3                               |
| M-D                |                                   | A82 CLAMP:<br>SAME AS A78                  |                   | EA                        | REF                          |             |                         |               |             |                         |               |                            |                                |             | A8MP3                              |
| X2-D               | 5305-889-3000                     | A83 SCREW, MACHINE:                        |                   | EA                        | 3                            |             |                         |               |             |                         |               |                            |                                |             | A8H3                               |
| X2-3               | 5310-C45-4007                     | SAME AS A35  A84 WASHER, LOCK: SAME AS A13 |                   | EA                        | 3                            |             |                         |               |             |                         |               |                            |                                |             | A8H3                               |
| X2-D               | 5310-C82-1404                     | A85 WASHER, FLAT:<br>SAME AS A81           |                   | EA                        | 3                            |             |                         |               |             |                         |               |                            |                                |             | A8H3                               |
| M-D                |                                   | A86 CLAMP:<br>SAME AS A78                  |                   | EA                        | REF                          |             |                         |               |             |                         |               |                            |                                |             | A8MP4                              |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |        | (3)<br>DESCRIPTION                             |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS I |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|----------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERE | NCE NUMBER & MFR CODE                          | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5305-889-3000                     | A87    | SCREW, MACHINE;<br>SAME AS A59                 |                   | EA                        | 3                            |             |                         |               |             |                |               |                            |                                |             | A8H3                               |
| X2-D               | 5310-045-4007                     | A88    | WASHER, LOCK:<br>SAME AS A13                   |                   | EA                        | 3                            |             |                         |               |             |                |               |                            |                                |             | A8H3                               |
| X2-D               | 5310-082-1404                     | A89    | WASHER, FLAT:<br>SAME AS A81                   |                   | EA                        | 3                            |             |                         |               |             |                |               |                            |                                |             | A8H3                               |
| M-D                |                                   | A9     | CLAMP:<br>SAME AS A78                          |                   | EA                        | REF                          |             |                         |               |             |                |               |                            |                                |             | A8MP5                              |
| X2-D               | 5305-889-3000                     | A91    | SCREW, MACHINE;<br>SAME AS A35                 |                   | EA                        | 3                            |             |                         |               |             |                |               |                            |                                |             | A8H3                               |
| X2-D               | 5310-045-4007                     | A92    | WASHER, LOCK:<br>SAME AS A13                   |                   | EA                        | 3                            |             |                         |               |             |                |               |                            |                                |             | A8H3                               |
| X2-D               | 5310-082-1404                     | A93    | WASHER, FLAT:<br>SAME AS A81                   |                   | EA                        | 3                            |             |                         |               |             |                |               |                            |                                |             | A8H3                               |
| M-D                |                                   | A94    | CLAMP:<br>SAME AS A78                          |                   | EA                        | REF                          |             |                         |               |             |                |               |                            |                                |             | A8MP6                              |
| X2-D               | 5305-889-3000                     | A95    | SCREW, MACHINE:<br>SAME AS A35                 |                   | EA                        | 3                            |             |                         |               |             |                |               |                            |                                |             | A8H3                               |
| X2-D               | 5310-045-4007                     | A96    | WASHER, LOCK;<br>SAME AS A13                   |                   | EA                        | 3                            |             |                         |               |             |                |               |                            |                                |             | A8H3                               |
| X2-D               | 5310-082-1404                     | A97    | WASHER, FLAT:<br>SAME AS A81                   |                   | EA                        | 3                            |             |                         |               |             |                |               |                            |                                |             | A8H3                               |
| P-F                |                                   | A98    | TERMINAL, INSULATED;<br>MILT55155-21-3 (81349) |                   | EA                        | 2                            | *           | *                       | 2             | *           | *              | 2             | 10                         | 10                             |             | A8E1                               |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION   |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS N<br>LLOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|--------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                                      | USABLE ON<br>CODE | III.Z.10                  |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50             | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5310-209-0788                     | A99 WASHER, LOCK;<br>SAME AS A36                                 |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | A8H1                               |
| P-F                |                                   | A100 TERMINAL , INSULATED:<br>SAME AS A98                        |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                      | REF           | REF                        | REF                            |             | A8E2                               |
| X2-D               | 5310-209-0788                     | A101 WASHER, LOCK:<br>SAME AS A36                                |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | A8H1                               |
| P-F                |                                   | A102 CAPACITOR, FIXED,<br>ELECTROLYTIC: 3600-50-1AMF<br>(99392)  | •                 | EA                        | 1                            | *           | 1                       | 1             | 1           | *                        | 1             | 12                         | 5                              | 5-1         | C8                                 |
| X2-D               | 5305-889-3000                     | A103 SCREW, MACHINE;<br>SAME AS A35                              |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | н                                  |
| X2-D               | 5310-209-0788                     | A104 WASHER, LOCK:<br>SAME AS A36                                |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | Н1                                 |
| X2-D               | 5310-934-9747                     | A105 NUT, PLAIN, HEXAGON:<br>SAME AS A37'                        |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | н                                  |
| X2-D               | 5305-984-6209                     | A106 SCREW, MACHINE;<br>M535206-262 (96906)                      |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | H2                                 |
| X2-D               | 5310-045-3296                     | A107 WASHER, LOCK;<br>SAME AS A32                                |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | H2                                 |
| P-F                |                                   | A108 CAPACITOR, FIXED,<br>ELECTROLYTIC;<br>71000-6-8AMPS (99392) |                   | EA                        | 1                            | *           | 1                       | 1             | *           | 1                        | 1             | 12                         | 5                              | 5-1         | C9                                 |
| X2-D               | 5305-984-6209                     | A109 SCREW, MACHINE;<br>SAME AS A106                             |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | H2                                 |
| X2-D               | 5310-045-3296                     | A110 WASHER, LOCK:<br>SAME AS A32                                |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | H2                                 |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION   |      | (3)<br>DESCRIPTION |             | (5)<br>T QTY<br>INC IN | Α             | (6)<br>DAY DS N<br>LLOWAN |              |               | (7)<br>PAY GS I |              | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--|------|--------------------|-------------|------------------------|---------------|---------------------------|--------------|---------------|-----------------|--------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE COI                                | E ON |                    | (a)<br>1-20 | (b)<br>21-50           | (c)<br>51-100 | (a)<br>1-20               | (b)<br>21-50 | (c)<br>51-100 | EQUIP<br>CNTGCY | 100<br>EQUIP | NO.                        | REFERENCE<br>DESIGNATION       |             |                                    |
| X2-D               | 53C5-889-300                      | A111 SCREW, MACHINE:<br>SAME AS P35                            | E    |                    | ı           |                        |               |                           |              |               |                 |              |                            | Н1                             |             |                                    |
| X2-D               | 5310-209-0788                     | A112 WASHER, LOCK:<br>SAME AS A36                              | E    |                    | ı           |                        |               |                           |              |               |                 |              |                            | H1                             |             |                                    |
| X2-D               | 5310-934-9747                     | A113 NUT, PLAIN, HEXAGON:<br>SAME AS A37                       | EA   | <b>.</b>           |             |                        |               |                           |              |               |                 |              |                            | H1                             |             |                                    |
| P-D                |                                   | A114 CARD RACK ASSEMBLY:<br>D8219 (18038)                      | EA   |                    | ı           |                        |               |                           |              |               |                 | 3            |                            | A11                            |             |                                    |
| X2-D               | 5305-984-4983                     | A115 SCREW, MACHINE<br>MS35206-226 (96906)                     | E/   |                    | 1           |                        |               |                           |              |               |                 |              |                            | H4                             |             |                                    |
| X2-D               | 5310-045-4007                     | A116 WASHER, LOCK:<br>SAME AS A13                              | EA   |                    | 1           |                        |               |                           |              |               |                 |              |                            | H4                             |             |                                    |
| P-H                |                                   | A117 CONNECTOR, RECEPTACLE,<br>ELEC: MILC21097-4-01<br>(81349) | EA   |                    | 3           |                        |               | *                         | 1            | 1             | 16              | 20           |                            | A11J1                          |             |                                    |
| X2-D               | 5305-984-4976                     | A118 SCREW, MACHINE;<br>MS35206-219 (96906)                    | E/   | .   :              | 2           |                        |               |                           |              |               |                 |              |                            | A11H2                          |             |                                    |
| X2-D               | 5310-543-2410                     | A119 WASHER, LOCK:<br>MS535338-40 (96906)                      | EA   | .   :              | 2           |                        |               |                           |              |               |                 |              |                            | A11H2                          |             |                                    |
| X2-D               | 5310-934-9739                     | A120 NUT, PLAIN, HEXAG:<br>M535649-242 (96906)                 | EA   | .   :              | 2           |                        |               |                           |              |               |                 |              |                            | A11H2                          |             |                                    |
| P-H                |                                   | A121 CONNECTOR, RECEPTACLE<br>ELEC: SAME AS A117               | EA   | RE                 | =           |                        |               | REF                       | REF          | REF           | REF             | REF          |                            | A11J2                          |             |                                    |
| X2-D               | 5305-984-4976                     | A122 SCREW, MACHINE  | EA   | .   :              | 2           |                        |               |                           |              |               |                 |              |                            | A11H2                          |             |                                    |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                             |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS I |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|----------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    | -                                 | REFERENCE NUMBER & MFR CODE                    | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5310-543-2410                     | A123 WASHER, LOCK:<br>SAME AS AI19             |                   | EA                        | 22                           |             |                         |               |             |                |               |                            |                                |             | A11H2                              |
| X2-D               | 5310-934-9739                     | A124 NUT, PLAIN, HEXAGON;<br>SAME AS A120      |                   | EA                        | 22                           |             |                         |               |             |                |               |                            |                                |             | A11H2                              |
| P-H                | 5935                              | A125 CONNECTOR, RECEPTACLE, ELEC: SAME AS A117 |                   | EA                        | REF                          |             |                         |               | REF         | REF            | REF           | REF                        | REF                            |             | A11J5                              |
| X2-D               | 5305-984-4976                     | A126 SCREW, MACHINE:<br>SAME AS Al18           |                   | EA                        | 2                            |             |                         |               |             |                |               |                            |                                |             | A11H2                              |
| X2-D               | 5310-543-2410                     | A127 WASHER, LOCK:<br>SAME AS Al19             |                   | EA                        | 2                            |             |                         |               |             |                |               |                            |                                |             | A11H2                              |
| X2-D               | 5310-934-9739                     | A128 NUT, PLAIN, HEXAGON:<br>SAME AS A120      |                   | EA                        | 2                            |             |                         |               |             |                |               |                            |                                |             | A11H2                              |
| P-H                |                                   | A161 CHOKE:<br>SMD667924 (18038)               |                   | EA                        | 1                            |             |                         |               | *           | *              | *             | 4                          | 5                              | 5-1         | L1                                 |
| X2-D               | 5305-983-6659                     | A162 SCREW, MACHINE:<br>MS16998-42 (96906)     |                   | EA                        | 4                            |             |                         |               |             |                |               |                            |                                |             | H4                                 |
| X2-D               | 5310-582-5965                     | A163 WASHER, LOCK:<br>SAME AS A6               |                   | EA                        | 4                            |             |                         |               |             |                |               |                            |                                |             | H4                                 |
| X2-D               | 5310-809-4058                     | A164 WASHER, FLAT:<br>SAME AS A5               |                   | EA                        | 4                            |             |                         |               |             |                |               |                            |                                |             | H4                                 |
| P-F                |                                   | A165 CIRCUIT BREAKER:<br>SMC667918 (18038)     |                   | EA                        | 1                            | *           | *                       | 1             | *           | *              | 1             | 8                          | 7                              | 5-8         | CB1                                |
| P-F                |                                   | A166 CIRCUIT BREAKER:<br>SMC667919 (18038)     |                   | EA                        | 1                            | *           | *                       | 1             | *           | *              | 1             | 8                          | 7                              | 5-8         | CB2                                |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                          |                | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               | (7)<br>30-DAY GS MAINT<br>ALLOWANCE |              |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (10) ILLUSTRATIONS (a) (b) FIG. ITEM NO. OR |                          |
|--------------------|-----------------------------------|---|----------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------------------------------|--------------|---------------|----------------------------|--------------------------------|---|--------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                 | USABLE ON CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20                         | (b)<br>21-50 | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.   | REFERENCE<br>DESIGNATION |
| M-D                |                                   | A167 CLAMP, CAPACITOR:<br>SMB450423 (80063) |                | EA                        |                              |             |                         |               |                                     |              |               |                            |                                |   | MP4                      |
| X2-D               | 5305-984-4983                     | A168 SCREW, MACHINE;<br>SAME AS A115        |                | EA                        | 2                            |             |                         |               |                                     |              |               |                            |                                |   | H2                       |
| X2-D               | 5310-045-4007                     | A169 WASHER, LOCK:<br>SAME AS A13           |                | EA                        | 2                            |             |                         |               |                                     |              |               |                            |                                |   | H2                       |
| X2-D               | 5310-983-8483                     | A170 WASHER. FLAT:<br>MS27183-5 (96906)     |                | EA                        | 2                            |             |                         |               |                                     |              |               |                            |                                |   | H2                       |
| M-D                |                                   | A171 CLAMP CAPACITOR:<br>SM8667955 (18038)  |                | EA                        | 1                            |             |                         |               |                                     |              |               |                            |                                |   | MP5                      |
| X2-D               | 5305-984-4983                     | A172 SCREW, MACHINE:<br>SAME AS A115        |                | EA                        | 3                            |             |                         |               |                                     |              |               |                            |                                |   | H3                       |
| X2-D               | 5310-045-4007                     | A173 WASHER, LOCK:<br>SAME AS A13           |                | EA                        | 3                            |             |                         |               |                                     |              |               |                            |                                |   | H3                       |
| X2-D               | 5310-983-8483                     | A174 WASHER, FLAT:<br>SAME AS A170          |                | EA                        | 3                            |             |                         |               |                                     |              |               |                            |                                |   | H3                       |
| P-F                |                                   | A175 CLAMP, CABLE;<br>MS21919-4 (96906)     |                | EA                        | 3                            | *           | *                       | 1             | *                                   | *            | 1             | 8                          | 9                              |   | MP6                      |
| X2-D               | 5305-984-6191                     | A176 SCREW, MACHINE:<br>SAME AS A8          |                | EA                        | 1                            |             |                         |               |                                     |              |               |                            |                                |   | н                        |
| X2-D               | 5310-045-3299                     | A177 WASHER, LOCK:<br>SAME AS A9            |                | EA                        | 1                            |             |                         |               |                                     |              |               |                            |                                |   | н                        |
| P-F                |                                   | A178 CLAMP, CABLE:<br>SAME AS A175          |                | EA                        | REF                          | REF         | REP                     | REF           | REF                                 | REP          | REF           | REF                        | REF                            |   | MP7                      |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS I<br>LLOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|--------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | USABLE ON CODE CODE   | IVILAG                    | ONIT                         | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50             | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5305-984-6191                     | A179 SCREW, MACHINE<br>SAME AS A8                               | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | H1                                 |
| X2-D               | 5310-045-3299                     | A180 WASHER, LOCK:<br>SAME AS A9                                | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | H1                                 |
| P-F                |                                   | A181 CLAMP, CABLE:<br>SAME AS A175                              | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                      | REF           | REF                        | REF                            |             | MP8                                |
| X2-D               | 5305-984-6191                     | PA182 SCREW, MACHINE;<br>SAME AS A8                             | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | H1                                 |
| X2-D               | 5310-045-3299                     | A183 WASHER, LOCK:<br>SAME AS A9                                | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | H1                                 |
| P-F                |                                   | A184 CLAMP, CABLE:<br>MS21919-5 (96906)                         | EA                        | 1                            | *           | *                       | *             | *           | *                        | *             | 4                          | 3                              |             | MP9                                |
| X2-D               | 5305-889-6000                     | A185 SCREW, MACHINE:<br>SAME AS A35                             | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | H1                                 |
| X2-D               | 5310-045-4007                     | A186 WASHER, LOCK:<br>SAME AS A13                               | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | H1                                 |
| X2-D               | 5310-983-8483                     | A187 WASHER, FLAT:<br>SAME AS A170                              | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | H1                                 |
| A-H                |                                   | A189 COMPONENT BOARD ASSEMBLY;<br>SMC667850 (18038)             | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                | 5-2         | A1                                 |
| P-F                | 5910-078-8110                     | A190 CAPACITOR, FIXED,<br>ELECTROLYTIC: C125BJ600TP3<br>(81349) | EA                        | 1                            | *           | 1                       | 1             | *           | 1                        | 1             | 12                         | 10                             | 5-2         | A1C1                               |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION  | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS I<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | USABLE OF<br>REFERENCE NUMBER & MFR CODE CODE                 |                           | Oitii                        | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                | 5910-082-4925                     | A191 CAPACITOR, FIXED,<br>ELECTROLYTIC: C513BF476K<br>(81349) | EA                        | 1                            | 1           | 1                       | 2             | 1           | 1                       | 2             | 27                         | 30                             | 5-2         | A1C3                               |
| P-P                | 5910-644-6164                     | A192 CAPACITOR, FIXED, PLASTIC:<br>CP09A1KB104K1 (81349)      | EA                        | 1                            | *           | 1                       | 1             | *           | 1                       | 1             | 12                         | 15                             | 5-2         | A1C2                               |
| P-H                | 5935                              | A193 CONNECTOR, PLUG, ELECTRICAL:<br>MILC21097-5-01 (81349)   | EA                        | 1                            |             |                         |               | *           | 1                       | 1             | 16                         | 20                             |             | A1P1                               |
| X2-D               |                                   | A194 SCREW, MACHINE:<br>M535206-323 (96906)                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A1H2                               |
| X2-D               | 5310-543-2410                     | A195 WASHER, LOCK:<br>SAME AS A119                            | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A1H2                               |
| X2-D               | 5310-934-9739                     | A196 NUT, PLAIN, HEXAGON:<br>SAME AS A120                     | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A1H2                               |
| P-F                | 6625-929-3950                     | A197 EJECTOR, CARD:<br>SMB667855 (18677)                      | EA                        | 1                            | *           | 1                       | 1             | *           | 1                       | 1             | 13                         | 15                             |             | A1MP2                              |
| P-F                |                                   | A199 HEAT SINK:<br>1115B (75247)                              | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 5                          | 3                              |             | A1MP12                             |
| P-F                |                                   | A200 PAD, TRANSISTOR:<br>7717-5DAP (75247)                    | EA                        | 9                            | 1           | 3                       | 5             | 1           | 3                       | 5             | 53                         | 68                             |             | A1MP3                              |
| P-F                |                                   | A201 PAD, TRANSISTOR:<br>SAME AS A200                         | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A1MP4                              |
| P-F                |                                   | A202 PAD, TRANSISTOR:<br>SAME AS 4200                         | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A1MP5                              |
| P-F                |                                   | A203 PAD, TRANSISTOR:<br>SAME AS A200                         | EA                        | REF                          | REF         | REF                     | RED           | REF         | REF                     | REF           | REF                        | REF                            |             | A1MP6                              |
| P-F                |                                   | A204 PAD, TRANSISTOR:<br>SAME AS A200                         | EA                        | REF                          | REF         | REF                     | REP           | REF         | REF                     | REF           | REF                        | REF                            |             | A1MP7                              |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION  |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS I |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|----------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE   | USABLE ON<br>CODE | III.E. TO                 | o                            | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                |                                   | A205 PAD, TRANSISTOR:<br>SAME AS A200                                   |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            |             | A1MP8                              |
| P-F                |                                   | A206 PAD, TRANSISTOR:<br>SAME AS A200                                   |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            |             | A1MP9                              |
| P-F                |                                   | A207 PAD, TRANSISTOR;<br>SAME AS A200                                   |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            |             | A1MP10                             |
| P-F                |                                   | A208 PAD, TRANSISTOR;<br>SAME AS A200                                   |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            |             | A1MP11                             |
| P-D                |                                   | A209 PRINTED CIRCUIT BOARD:<br>SMD667852 (18038)                        |                   | EA                        | 1                            |             |                         |               |             |                |               |                            | 4                              |             | A1MP1                              |
| P-F                |                                   | A210 RELAY:<br>MILR5757-29A008 (81349)                                  |                   | EA                        | 2                            | *           | *                       | *             | *           | *              | *             | 10                         | 10                             | 5-2         | A1K1                               |
| P-F                |                                   | A211 RELAY:<br>SAME AS A210   |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF            | REF           | REP                        | REF                            | 5-2         | A1K2                               |
| P-F                | 5905-882-0061                     | A212 RESISTOR, FIXED, FILM:   |                   | EA                        | 1                            | *           | *                       | *             | *           | *              | *             | 4                          | 3                              | 5-2         | A1R1                               |
| P-F                | 5905-835-6424                     | RL20S472J (81349)<br>A213 RESISTOR, FIXED, FILM:                        |                   | EA                        | 1                            | *           | *                       | *             | *           | *              | *             | 4                          | 3                              | 5-2         | A1R2                               |
| P-F                | 5905-833-8355                     | RN60C3831F (81349)<br>A214 RESISTOR, FIXED, FILM:<br>RN60C5901F (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *              | *             | 4                          | 3                              | 5-2         | A1R3                               |
| P-F                | 5905-717-3342                     | A215 RESISTOR, FIXED, FILM:<br>RL205182J (81349)                        |                   | EA                        | 2                            | *           | *                       | 1             | *           | *              | 1             | 8                          | 9                              | 5-2         | A1R4                               |
| P-F                | 5905-717-3342                     | A216 RESISTOR, FIXED, FILM:<br>SAME AS A215                             |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            | 5-2         | A1R13                              |
| P-F                | 5905-836-2859                     | A217 RESISTOR, FIXED, FILM.:<br>RN60C9761F (81349)                      |                   | EA                        | 1                            | *           | *                       | *             | *           | *              | *             | 4                          | 3                              | 5-2         | A1R5                               |
| P-F                | 5905-810-7778                     | A218 RESISTOR, FIXED, FILM:<br>RN60C1542F (81349)                       |                   | EA                        | 1                            | *           | *                       | *             | *           | *              | *             | 4                          | 3                              | 5-2         | A1P6                               |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                               |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS N<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                      | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                | 5905-762-3667                     | A219 RESISTOR, FIXED, FILM:<br>RL20SL03J (81349) |                   | EA                        | *                            | *           | *                       | *             | *           | *                       | *             | 4                          | 3                              | 5-2         | A1R7                               |
| P-F                | 5905-767-7583                     | A220 RESISTOR, FIXED, FILM:<br>RL205752J (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       |               | 7                          | 6                              | 5-2         | A1R10                              |
| P-F                | 5905-771-2295                     | A221 RESISTOR, FIXED, FILM:<br>RL205272G (81349) |                   | EA                        | 1                            | *           | 1                       | 1             | *           | 1                       | 1             | 12                         | 15                             | 5-2         | A1R11                              |
| P-F                | 5905-9CI-4016                     | A222 RESISTOR, FIXED, FILM:<br>RL20S102J (81349) |                   | ES                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 3                              | 5-2         | A1R12                              |
| P-F                | 5905-882-0070                     | A223 RESISTOR, FIXED, FILM:<br>RL205562J (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 3                              | 5-2         | A1R14                              |
| P-F                | 5905-767-3230                     | A224 RESISTOR, FIXED, FILM:<br>RL205393J (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 3                              | 5-2         | A1R15                              |
| P-F                | 5905-767-2842                     | A225 RESISTOR, FIXED, FILM;<br>RL205681J (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 7                          | 6                              | 5-2         | A1R16                              |
| P-F                | 5905-767-3229                     | A226 RESISTOR, FIXED, FILM:<br>RL205392J (81349) |                   | EA                        | 2                            | *           | 1                       | 1             | *           | 1                       | 1             | 12                         | 15                             | 5-2         | A1R17                              |
| P-F                | 5905-767-3229                     | A227 RESISTOR, FIXED. FILM:<br>SAME AS A226      |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-2         | A1R18                              |
| P-F                | 5905-717-3339                     | A228 RESISTOR, FIXED, FILM:<br>RL20S510J (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 3                              | 5-2         | A1R19                              |
| P-F                | 5905-768-5922                     | A229 RESISTOR, FIXED, FILM:<br>RL20S152J (81349) |                   | EA                        | 2                            | *           | *                       | *             | *           | *                       | *             | 7                          | 6                              | 5-2         | A1R21                              |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK | (3)<br>DESCRIPTION  | (4)<br>UNIT<br>OF | INC IN |             | (6)<br>AY DS M<br>LOWAN |               |             | (7)<br>AY GS N<br>LOWAN |               | (8)<br>1 YR.<br>ALW    | (9)<br>DEPT<br>MAIN     | (a)         | (10) ILLUSTRATIONS (b)                  |
|--------------------|-------------------------|---|-------------------|--------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|------------------------|-------------------------|-------------|---|
|                    | NUMBER                  | USABL<br>REFERENCE NUMBER & MFR CODE CO                                   | -                 | UNIT   | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | PER<br>EQUIP<br>CNTGCY | ALW PER<br>100<br>EQUIP | FÌĠ.<br>NO. | ITEM NO. OR<br>REFERENCE<br>DESIGNATION |
| P-F                | 5905-768-5922           | A230 RESISTOR, FIXED, FILM:<br>SAME AS A229                               | EA                | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-2         | A1R32                                   |
| P-F                | 5905-766-8366           | A231 RESISTOR, FIXED, FILM:   | EA                | 1      | *           | *                       | *             | *           | *                       | *             | 4                      | 3                       | 5-2         | A1R22                                   |
| P-F                | 5905-080-5016           | RL20S512J (81349)<br>A232 RESISTOR, FIXED, WIREWOUND:<br>RW69V161 (81349) | EA                | 1      | *           | *                       | *             | *           | *                       | *             | 5                      | 5                       | 5-2         | A1R20                                   |
| P-F                | 5905-880-0872           | A233 RESISTOR, VARIABLE:<br>RT22C2P103 (81349)                            | EA                | 1      | *           | *                       | *             | *           | *                       | *             | 5                      | 6                       | 5-2         | A1R9                                    |
| P-F                | 5961-957-6855           | A234 SEMICONDUCTOR, DEVICE,<br>DIODE: SAME AS A234                        | EA                | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-2         | A1CR2                                   |
| P-F                | 5961-957-6855           | A235 SEMICONDUCTOR, DEVICE<br>DIODE: SAME AS 234                          | EA                | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-2         | A1CR3                                   |
| P-F                | 5961-957-6855           | A236 SEMICONDUCTOR, DEVICE<br>DIODE: SAME AS 234                          | EA                | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-2         | A1CR4                                   |
| P-F                | 5961-957-6855           | A237 SEMICONDUCTOR, DEVICE<br>DIODE: SAME AS 234                          | EA                | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-2         | A1CR5                                   |
| P-F                |                         | A238 SEMICONDUCTOR, DEVICE<br>DIODE: JAN1N937B (81350)                    | EA                | 1      | *           | *                       | 1             | *           | *                       | 1             | 10                     | 10                      | 5-2         | A1CR5                                   |
| P-F                | 5961-087-6047           | A239 SEMICONDUCTOR DEVICE, DIODE: JAN1N635(81349)                         | EA                | 8      | 1           | 3                       | 5             | 1           | 3                       | 5             | 59                     | 76                      | 5-2         | A1CR6                                   |
| P-F                | 5961-957-6855           | A240 SEMICONDUCTOR, DEVICE, DIODE:  | EA                | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-2         | A1CR7                                   |
| P-F                | 5961-957-6855           | SAME AS 239 A241 SEMICONDUCTOR, DEVICE, DIODE: SAME AS 239                | EA                | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-2         | A1CR8                                   |
| P-F                | 5961-957-6855           | A242 SEMICONDUCTOR, DEVICE, DIODE:<br>SAME AS 239                         | EA                | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-2         | A1CR9                                   |
| P-F                | 5961-957-6855           | A243 SEMICONDUCTOR, DEVICE, DIODE:<br>SAME AS 239                         | EA                | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-2         | A1CR10                                  |
| P-F                | 5961-957-6855           | A244 SEMICONDUCTOR, DEVICE, DIODE:<br>SAME AS 239                         | EA                | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-2         | A1CR11                                  |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                                |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS M<br>LOWAN |               |             | (7)<br>AY GS I<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    | -                                 | REFERENCE NUMBER & MFR CODE                       | USABLE ON<br>CODE | III.Z.10                  | o                            | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                | 5961-087-6047                     | A245 SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239 |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-2         | A1CR12                             |
| P-F                | i5961-087-6047                    | A246 SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239 |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-2         | A1CR13                             |
| P2-F               | 5940-280-0601                     | A247 TERMINAL, STUD: 2027-2 (71279)               |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A1TP1                              |
| X2-D               | 5940-280-0601                     | A248 TERMINAL, STUD:<br>SAME AS A247              |                   | EA                        | REF                          |             |                         |               |             |                         |               |                            |                                |             | A1TP2                              |
| P-F                | 5961-853-2601                     | 249 TRANSISTOR:<br>JAN2NL893 (81350)              |                   | EA                        | 6                            | 1           | 2                       | 3             | 1           | 2                       | 3             | 40                         | 52                             | 5-2         | A1Q1                               |
| P-F                | 5961-853-2601                     | A250 TRANSISTOR:<br>SAME AS A249                  |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-2         | A2Q2                               |
| P-F                | 5961-853-2601                     | A251 TRANSISTOR:<br>SAME AS A249                  |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-2         | A2Q9                               |
| P-F                | 5961-853-2601                     | A252 TRANSISTOR<br>SAME AS A249                   |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-2         | A2Q5                               |
| P-F                | 5961-853D-260                     | 1A253 TRANSISTOR;<br>SAME AS A249                 |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-2         | A2Q6                               |
| P-F                | 5961-853-2601                     | A254 TRANSISTOR;<br>SAME AS A249                  |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-2         | A2Q7                               |
| P-F                | 5961-880-4779                     | A255 TRANSISTOR:<br>JAN2N2905 (81350)             |                   | EA                        | 3                            | *           | 1                       | 1             | *           | 1                       | 1             | 16                         | 20                             | 5-2         | A1Q3                               |
| P-F                | 5961-880-4779                     | A256 TRANSISTOR;<br>SAME AS A255                  |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-2         | A1Q4                               |

TM 11-6130-266-15 SECTION IV. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (CONTINUED)

|      | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION  | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT | 30-DA       | (6)<br>Y DS I |               |             | (7)<br>AY GS<br>LOWA |               | (8)<br>1-YR<br>ALW<br>PER | (9)<br>DEPOT<br>MAINT<br>ALW | ILL<br>(a)  | (10)<br>USTRATIONS<br>(b)               |
|------|-----------------------------------|---|---------------------------|------------------------------|-------------|---------------|---------------|-------------|----------------------|---------------|---------------------------|------------------------------|-------------|---|
|      |                                   | USABLE ON<br>REFERENCE NUMBER & MFR/ CODE CODE                |                           |                              | (a)<br>1-20 | (b)<br>21-50  | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50         | (c)<br>51-100 | EQUIP<br>CNTGC)           | PER<br>100<br>EQUIP          | FIG.<br>NO. | ITEM NO. OR<br>REFERENCE<br>DESIGNATION |
| P-F  | 5961-880-4779                     | A257 TRANSISTOR:  | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-2         | A1Q8                                    |
| А-Н  |                                   | SAME AS A255 A258 COMPONENT BOARD ASSEMBLY: SMC667858 (18038) | EA                        | 1                            |             |               |               |             |                      |               |                           |                              | 5-3         | A2                                      |
| P-F  | 5910-109-1987                     | A258A CAPACITOR, FIXED:<br>CK63AY103M (81349)                 | EA                        | 6                            | *           | *             | *             | *           | *                    | *             | *                         | *                            | 5-3         | A2C8                                    |
| P-F  | 5910-109-1987                     | A258B CAPACITOR, FIXED:<br>SAME AA A258A                      | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2C9                                    |
| P-F  | 5910-109-1987                     | A258C CAPACITOR, FIXED:<br>SAME AS A258A                      | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2C10                                   |
| P-F  | 5910-109-1987                     | A258E CAPACITOR, FIXED:<br>SAME AS A258A                      | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2C11                                   |
| P-F  | 5910-109-1987                     | A258F CAPACITOR, FIXED:<br>SAME AS A258A                      | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2C12                                   |
| P-F  | 5910-109-1987                     | A258G CAPACITOR, FIXED:<br>SAME AS A258A                      | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2C13                                   |
| P-F  | 5910-881-8945                     | A259 CAPACITOR, FIXED, CERAMIC:<br>CK06BX222K (81349)         | EA                        | 1                            | *           | *             | *             | *           | *                    | *             | 4                         | 5                            | 5-3         | A2C1                                    |
| P-F  | 5910-988-4415                     | A260 CAPACITOR, FIXED, CERAMIC:<br>CK05BX470K (81349)         | EA                        | 1                            | *           | *             | *             | *           | *                    | *             | 4                         | 5                            | 5-3         | A2C3                                    |
| P-F  | 5910-644-6164                     | A261 CAPACITOR, FIXED, PAPER:<br>SAME AS A192                 | EA                        | 3                            | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2C2                                    |
| P-F  | 5910-644-6164                     | A262 CAPACITOR, FIXED, PAPER:<br>SAME AS A192                 | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2C4                                    |
| P-F  | 5910-644-6164                     | A263 CAPACITOR, FIXED, PAPER:<br>SAME AS A192                 | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2C5                                    |
| P-F  | 5910-642-6275                     | A264 CAPACITOR, FIXED, PAPER:<br>CP09A1KC223K1 (81349)        | EA                        | 1                            | *           | *             | *             | *           | *                    | *             | 4                         | 5                            | 5-3         | A2C7                                    |
| P-F  | 5905-059-3903                     | A264A COIL, RF:<br>MS75008-22 (96906)                         | EA                        | 6                            | *           | *             | *             | *           | *                    | *             | *                         | *                            | 5-3         | A2L1                                    |
| P-F  | 5905-059-3903                     | A264B COIL, RF:<br>SAME AS A264A                              | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2L2                                    |
| P-F  | 5905-059-3903                     | A264C COIL, RF:<br>SAME AS A264A                              | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2L3                                    |
| P-F  | 5905-059-3903                     | .A264E COIL, RF:<br>SAME AS A264A                             | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2L4                                    |
| P-F  | 5905-059-3903                     | A264F COIL, RF:<br>SAME AS A264A                              | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2L5                                    |
| P-F  | 5905-059-3903                     | A264G COIL, RF:<br>SAME AS A264A                              | EA                        | REF                          | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          | 5-3         | A2L6                                    |
| P-F  |                                   | A265 CONNECTOR, PLUG:<br>SAME AS A193                         | EA                        | 1                            | REF         | REF           | REF           | REF         | REF                  | REF           | REF                       | REF                          |             | A2P1                                    |
| X2-D |                                   | A266 SCREW, MACHINE:<br>SAME AS A194                          | EA                        | 2                            |             |               |               |             |                      |               |                           |                              |             | A2H2                                    |
| X2-D | 5310-543-2410                     | A267 WASHER, LOCK:<br>SAME AS A119                            | EA                        | 2                            |             |               |               |             |                      |               |                           |                              |             | A2H2                                    |
| X2-D | 5310-934-9739                     | A268 NUT, PLAIN, HEXAGON:<br>SAME AS A120                     | EA                        | 2                            |             |               |               |             |                      |               |                           |                              |             | A2H2                                    |

### TM 11-6130-266-15

SECTION IV. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK | (3)<br>DESCRIPTION  |                   | (4)<br>UNIT<br>OF | (5)<br>QTY<br>INC IN | 30-D/       | (6)<br>AY DS N<br>LOWAN | IAINT         | 30-D        | (7)<br>AY GS N<br>LOWAN | //AINT        | (8)<br>1 YR.<br>ALW    | (9)<br>DEPT<br>MAIN     | (a)         | (10) ILLUSTRATIONS (b)                  |
|--------------------|-------------------------|---|-------------------|-------------------|----------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|------------------------|-------------------------|-------------|---|
|                    | NUMBER                  | REFERENCE NUMBER & MFR CODE                                 | USABLE ON<br>CODE | MEAS              | UNIT                 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | PER<br>EQUIP<br>CNTGCY | ALW PER<br>100<br>EQUIP | FIG.<br>NO. | ITEM NO. OR<br>REFERENCE<br>DESIGNATION |
| P-F                | 6625-929-3950           | A269 EJECTOR, CARD:<br>SAME AS A197                         |                   | EA                | 1                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     |             | A2MP2                                   |
| P-F                |                         | A271 INTEGRATED CIRCUIT;<br>AMPLIFIER: SMD667862<br>(18038) |                   | EA                | 1                    | *           | *                       | 1             | *           | *                       | 1             | 10                     | 7                       |             | A2A1                                    |
| P-F                |                         | A272 PAD, TRANSISTOR:<br>SAME AS A200                       |                   | EA                | 2                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     |             | A2MP3                                   |
| P-F                |                         | A273 PAD, TRANSISTOR:<br>SAME AS A200                       |                   | EA                | REF                  | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     |             | A2MP4                                   |
| P-D                |                         | A274 PRINTED CIRCUIT BOARD:<br>SMD667860 (18038)            |                   | EA                | 1                    |             |                         |               |             |                         |               |                        | 3                       |             | A2MP1                                   |
| P-F                |                         | A275 RESISTOR, FIXED, FILM:<br>RL20S223J (81349)            |                   | EA                | 1                    | *           | *                       | *             | *           | *                       | *             | 4                      | 5                       | 5-3         | A2R1                                    |
| P-F                |                         | A276 RESISTOR, FIXED, FILM:<br>RL20S122J (81349)            |                   | EA                | 1                    | *           | *                       | *             | *           | *                       | *             | 4                      | 5                       | 5-3         | A2R2                                    |
| P-F                | 5905-765-5628           | A277 RESISTOR, FIXED, FILM:<br>RL20S752G (81349)            |                   | EA                | 1                    | *           | *                       | *             | *           | *                       | *             | 7                      | 6                       | 5-3         | A2R3                                    |
| P-F                | 5905-900-2089           | A278 RESISTOR, FIXED, FILM:<br>RL20S101J (81349)            |                   | EA                | 2                    | *           | 1                       | 1             | *           | 1                       | 1             | 16                     | 16                      | 5-3         | A2R4                                    |
| P-F                | 5905-900-2089           | A279 RESISTOR, FIXED, FILM;<br>SAME AS A278                 |                   | EA                | REF                  | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-3         | A2R5                                    |
| P-F                | 5905-767-3229           | A280 RESISTOR, FIXED, FILM:<br>SAME AS A226                 |                   | EA                | 1                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-3         | A2R6                                    |
| P-F                | 5905-771-2295           | A281 RESISTOR, FIXED, FILM:<br>SAME AS A221                 |                   | EA                | 3                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-3         | A2R7                                    |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                                |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS M<br>LOWAN |               |             | (7)<br>AY GS M<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                       | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                | 5905-771-2295                     | A282 RESISTOR, FIXED, FILM:<br>SAME AS A221       |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-3         | A2R9                               |
| P-F                | 5905-771-2295                     | A283 RESISTOR, FIXED, FILM:<br>SAME AS A221       |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-3         | A2R18                              |
| P-F                | 5905-901-4016                     | A284 RESISTOR, FIXED, FILM:<br>SAME AS A222       |                   | EA                        | 3                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-3         | A2R8                               |
| P-F                | 5905-901-4016                     | A285 RESISTOR, FIXED, FILM:<br>SAME AS A222       |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-3         | A2R19                              |
| P-F                | 5905-901-4016                     | A286 RESISTOR, FIXED, FILM:<br>SAME AS A222       |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-3         | A2R20                              |
| P-F                | 5905-834-0387                     | A287 RESISTOR, FIXED, FILM:<br>RN65C3651F (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 5                              | 5-3         | A2R11                              |
| P-F                | 5905-985-6056                     | A288 RESISTOR, FIXED, FILM:<br>RL205100J (81349)  |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 5                              | 5-3         | A2R12                              |
| P-F                | 5905-755-8132                     | A289 RESISTOR, FIXED, FILM:<br>RN60C1003F (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 5                              | 5-3         | A2R13                              |
| P-F                | 5905-844-1423                     | A290 RESISTOR, FIXED, FILM:<br>RN60C7500F (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 5                              | 5-3         | A2R14                              |
| P-F                | 5905-819-6925                     | A291 RESISTOR, FIXED, FILM:<br>RN65C2211F (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 5                              | 5-3         | A2R16                              |
| P-F                | 5905-686-3379                     | A292 RESISTOR, FIXED, FILM:<br>RN60C1002F (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 5                              | 5-3         | A2R21                              |
| P-F                | 5905-752-3597                     | A293 RESISTOR, FIXED, FILM:<br>RN60C1001F (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 5                              | 5-3         | A2R22                              |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |        | (3)<br>DESCRIPTION                                 |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS M<br>LOWAN |               |             | (7)<br>AY GS I |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|----------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERE | NCE NUMBER & MFR CODE                              | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                | 5905-061-2089                     | A294   | RESISTOR, FIXED,<br>WIREWOUND: RW69V510<br>(81349) |                   | EA                        | 1                            | *           | *                       | 1             | *           | *              | 1             | 10                         | 10                             | 5-3         | A2R17                              |
| P-F                | 5905-067-9079                     | A295   | RESISTOR, VARIABLE:<br>RT22C2P102 (81349)          |                   | EA                        | 2                            | *           | 1                       | 1             | *           | 1              | 1             | 13                         | 15                             | 5-3         | A2R10                              |
| P-F                | 5905-067-9079                     | A296   | RESISTOR, VARIABLE:<br>SAME AS A295                |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            | 5-3         | A2R15                              |
| P-F                |                                   | A299   | SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A238       |                   | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            | 5-3         | A2CR1                              |
| P-F                | 5961-087-6047                     | A300   | SEMICONDUCTOR, DEVICE,<br>DIODE: SAME AS A239      |                   | EA                        | 4                            | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            | 5-3         | A2CR2                              |
| P-F                | 5961-087-6047                     | A301   | SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239       |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            | 5-3         | A2CR3                              |
| P-F                | 5961-087-6047                     | A302   | SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239       |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            | 5-3         | A2CR4                              |
| P-F                | 5961-087-6047                     | A303   | SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239       |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            | 5-3         | A2CR7                              |
| P-F                | 5961-957-6855                     | A304   | SEMICONDUCTOR, DEVICE,<br>DIODE: SAME AS A234      |                   | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            | 5-3         | A2CR6                              |
| P-F                | 5940-280-0601                     | A305   | TERMINAL, STUD:<br>SAME AS A247                    |                   | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            |             | A2TP1                              |
| P-F                | 5961-853-2601                     | A306   | TRANSISTOR:<br>SAME AS A249                        |                   | EA                        | 2                            | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            | 5-3         | A2Q1                               |
| P-F                | 5961-853-2601                     | A307   | TRANSISTOR:<br>SAME AS A249                        |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            | 5-3         | A2Q4                               |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK | (3) DESCRIPTION   | (4)<br>UNIT<br>OF | (5)<br>QTY<br>INC IN | 30-D        | (6)<br>AY DS N<br>LOWAN | IAINT         | 30-D        | (7)<br>AY GS N<br>LOWAN | MAINT         | (8)<br>1 YR.<br>ALW    | (9)<br>DEPT<br>MAIN     | (a)         | (10) ILLUSTRATIONS (b)                  |
|--------------------|-------------------------|---|-------------------|----------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|------------------------|-------------------------|-------------|---|
|                    | NUMBER                  | USABLE ( REFERENCE NUMBER & MFR CODE CODE               | N MEAS            | UNIT                 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | PER<br>EQUIP<br>CNTGCY | ALW PER<br>100<br>EQUIP | FIG.<br>NO. | ITEM NO. OR<br>REFERENCE<br>DESIGNATION |
| P-F                | 5961-880-4779           | A308 TRANSISTOR:<br>SAME AS A255                        | EA                | 1                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-3         | A2Q2                                    |
| P-F                | 5961-104-8378           | A309 TRANSISTOR:<br>2N2920 (81349)                      | EA                | 1                    | *           | *                       | *             | *           | *                       | *             | 10                     | 10                      | 5-3         | A2Q3                                    |
| A-H                |                         | A310 COMPONENT BOARD ASSEMBLY: SMC667863 (18038)        | EA                | 1                    |             |                         |               |             |                         |               |                        |                         | 5-6         | A5                                      |
| P-F                | 5910-644-6164           | A311 CAPACITOR, FIXED, PAPER: SAME AS A192              | EA                | 1                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     | 5-6         | A5C2                                    |
| P-F                |                         | A312 CAPACITOR, FIXED, PLASTIC:<br>CH08A1RA475M (81349) | EA                | 1                    | *           | *                       | *             | *           | *                       | *             | 5                      | 5                       | 5-6         | A5C1                                    |
| P-H                |                         | A313 CONNECTOR, RECEPTACLE, ELEC; SAME AS A193          | EA                | 1                    |             |                         |               | REF         | REF                     | REF           | REF                    | REF                     |             | A5J1                                    |
| X2-D               |                         | A314 SCREW, MACHINE,<br>SAME AS A194                    | EA                | 2                    |             |                         |               |             |                         |               |                        |                         |             | A5H2                                    |
| X2-D               | 5310-543-2410           | A315 WASHER, LOCK;<br>SAME AS A119                      | EA                | 2                    |             |                         |               |             |                         |               |                        |                         |             | A5H2                                    |
| X2-D               | 5310-934-9739           | A316 NUT, PLAIN, HEXAGON:<br>SAME AS A120               | EA                | 2                    |             |                         |               |             |                         |               |                        |                         |             | A5H3                                    |
| P-H                | 6225-929-3950           | A317 EJECTOR, CARD:<br>SAME AS A197                     | EA                | 1                    |             |                         |               | REF         | REF                     | REF           | REF                    | REF                     |             | A5MP2                                   |
| P-F                |                         | A319 PAD, TRANSISTOR:<br>SAME AS A200                   | EA                | 4                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     |             | A5MP3                                   |
| P-F                |                         | A320 PAD, TRANSISTOR:<br>SAME AS A200                   | EA                | REF                  | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     |             | A5MP4                                   |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |        | (3)<br>DESCRIPTION                          |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS M<br>LOWAN |               |             | (7)<br>Ay Gs N<br>Lowan |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERE | NCE NUMBER & MFR CODE                       | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                |                                   | A321   | PAD, TRANSISTOR:<br>SAME AS A200            |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A5MP5                              |
| P-F                |                                   | A322   | PAD, TRANSISTOR:<br>SAME AS A200            |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A5MP6                              |
| P-F                |                                   | A323   | PRINTED CIRCUIT BOARD:<br>SMD667865 (18038) |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            | 3                              |             | A5MP1                              |
| P-F                | 5905-767-3230                     | A324   | RESISTOR, FIXED, FILM:<br>SAME AS A222      |                   | EA                        | 2                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-6         | A5R1                               |
| P-F                | 5905-767-3230                     | A325   | RESISTOR, FIXED, FILM:<br>SAME AS A222      |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-6         | A5R12                              |
| P-F                | 5905-771-2295                     | A326   | RESISTOR, FIXED, FILM:<br>SAME AS A221      |                   | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-6         | A5R2                               |
| P-F                | 5905-767-3229                     | A327   | RESISTOR, FIXED, FILM:<br>SAME AS A226      |                   | EA                        | 2                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-6         | A5R3                               |
| P-F                | 5905-767-2842                     | A328   | RESISTOR, FIXED, FILM:<br>SAME AS A225      |                   | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-6         | A5R5                               |
| P-F                | 5905-767-2444                     | A329   | RESISTOR, FIXED, FILM:<br>RL20S162J (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 5                              | 5-6         | A5R6                               |
| P-F                | 5905-717-3342                     | A330   | RESISTOR, FIXED, FILM:<br>SAME AS A215      |                   | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-6         | A5R7                               |
| P-F                | 5905-775-0633                     | A331   | RESISTOR, FIXED, FILM:<br>RL20S561J (81349) |                   | EA                        | 2                            | *           | *                       | *             | *           | *                       | *             | 5                          | 6                              | 5-6         | A5R8                               |
| P-F                | 5905-775-0633                     | A332   | RESISTOR, FIXED, FILM:<br>SAME AS A331      |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-6         | A5R13                              |

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SECTION IV. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

| (1)                | (2)                     | SECTION IV. REPAIR PARTS                                |           |                   |                      |             |                         |               |             |                         |               |                     | (9)            |             | (10)                     |
|--------------------|-------------------------|---|-----------|-------------------|----------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|---------------------|----------------|-------------|--------------------------|
| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK | (3)<br>DESCRIPTION                                      |           | (4)<br>UNIT<br>OF | (5)<br>QTY<br>INC IN |             | (6)<br>AY DS M<br>LOWAN |               |             | (7)<br>AY GS N<br>LOWAN |               | (8)<br>1 YR.<br>ALW | DEPT<br>MAIN   | (a)         | ILLUSTRATIONS (b)        |
| OODL               | NUMBER                  |   | USABLE ON | MEAS              | UNIT                 |             |                         |               |             |                         |               | PER<br>EQUIP        | ALW PER<br>100 | FIG.<br>NO. | ITEM NO. OR<br>REFERENCE |
|                    |                         | REFERENCE NUMBER & MFR CODE                             | CODE      |                   |                      | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | CNTGCY              |                | NO.         | DESIGNATION              |
| P-F                | 5905-767-3229           | A333 RESISTOR, FIXED, FILM:<br>SAME AS A226             |           | EA                | REF                  | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                 | REF            | 5-6         | A5R10                    |
| P-F                | 5905-067-9079           | A334 RESISTOR, VARIABLE:<br>SAME AS A295                |           | EA                | 1                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                 | REF            | 5-6         | A5R9                     |
| P-F                | 5961-087-6047           | A335 SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239       |           | EA                | 3                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                 | REF            | 5-6         | A5CR1                    |
| P-F                | 5961-087-6047           | A336 SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239       |           | EA                | REF                  | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                 | REF            | 5-6         | A5CR2                    |
| P-F                | 5961-087-6047           | A337 SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239       |           | EA                | REF                  | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                 | REF            | 5-6         | A5CR4                    |
| P-F                | 5961-836-0382           | A338 SEMICONDUCTOR DEVICE,<br>DIODE: JAN1N3022B (81350) |           | EA                | 1                    | *           | *                       | *             | *           | *                       | *             | 5                   | 5              | 5-6         | A5CR3                    |
| X2-D               | 5940-280-0601           | A339 TERMINAL, STUD:<br>SAME AS A247                    |           | EA                | 1                    |             |                         |               |             |                         |               |                     |                |             | A5TP1                    |
| P-F                | 5961-853-2601           | A340 TRANSISTOR:<br>SAME AS A249                        |           | EA                | 3                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                 | REF            | 5-6         | A5Q1                     |
| P-F                | 5961-853-2601           | A341 TRANSISTOR:<br>SAME AS A249                        |           | EA                | REF                  | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                 | REF            | 5-6         | A5Q2                     |
| P-F                | 5961-853-2601           | A342 TRANSISTOR:<br>SAME AS A249                        |           | EA                | REF                  | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                 | REF            | 5-6         | A5Q3                     |
| А-Н                |                         | A343 COVER ASSEMBLY:<br>SMD667930 (18038)               |           | EA                | 1                    |             |                         |               |             |                         |               |                     |                |             | A9                       |
| P-D                |                         | A344 COVER:<br>SMD667931 (18038)                        |           | EA                | 1                    |             |                         |               |             |                         |               |                     | 2              |             | A9MP1                    |

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SECTION IV. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |        | (3)<br>DESCRIPTION                                 |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS I<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERE | NCE NUMBER & MFR CODE                              | USABLE ON<br>CODE | III.Z 10                  | J.I.I.                       | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100                            | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5305-985-3674                     | A345   | SCREW, CAPTIVE;<br>6235SS0632 (06540)              |                   | EA                        | 16                           |             |                         |               |             |                         |               |                            |                                |             | A9H16                              |
| X2-D               | 5310-531-9514                     | A346   | WASHER, FLAT:<br>AN960C6 (88044)                   |                   | EA                        | 16                           |             |                         |               |             |                         |               |                            |                                |             | A9H16                              |
| M-D                |                                   | A347   | GASKET, RUBBER<br>SMD667932 (18038)                |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A9MP2                              |
| M-H                |                                   | A348   | LABEL, IDENTIFICATION:<br>SMD667933 (18038)        |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A9MP3                              |
| М-Н                |                                   | A349   | LABEL, IDENTIFICATION:<br>SMD667934 (18038)        |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A9MP4                              |
| М-Н                |                                   | A350   | PAD, SHOCK:<br>SMB667940 (18038)                   |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A9MP5                              |
| М-Н                |                                   | A351   | PAD, SHOCK:<br>SAME AS A350                        |                   | EA                        | REF                          |             |                         |               |             |                         |               |                            |                                |             | A9MP6                              |
| X2-D               |                                   | A355   | CLAMP, CABLE:<br>MS21919-WG-11 (96906)             |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | MP11                               |
| X2-D               | 5305-984-6191                     | A356   | SCREW, MACHINE;<br>SAME AS A8                      |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | H1                                 |
| X2-D               | 5310-045-3299                     | A357   | WASHER, LOCK:<br>SAME AS A9                        |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | Н1                                 |
| P-H                |                                   | A358   | CONNECTOR, RECEPTACLE,<br>ELEC: PT07C14-5P (77820) |                   | EA                        | 1                            |             |                         |               | *           | *                       | *             | 4                          | 5                              |             | J3                                 |
|                    |                                   | A359E  |  |                   |                           |                              |             |                         |               |             |                         |               |                            |                                |             |                                    |
|                    |                                   |        |  |                   |                           |                              |             |                         |               |             |                         |               |                            |                                |             |                                    |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK | (3)<br>DESCRIPTION                                     | (4)<br>UNIT<br>OF | (5)<br>QTY<br>INC IN |             | (6)<br>Y DS N |               |             | (7)<br>AY GS<br>LOWAI |               | (8)<br>1-YR<br>ALW     | (9)<br>DEPOT<br>MAINT | ILL                | (10)<br>USTRATIONS              |
|--------------------|-------------------------|--|-------------------|----------------------|-------------|---------------|---------------|-------------|-----------------------|---------------|------------------------|-----------------------|--------------------|---------------------------------|
|                    | NUMBER                  |  | MEAS              | UNIT                 |             |               |               |             |                       |               | PER<br>EQUIP<br>CNTGCY | ALW<br>PER            | (a)<br>FIG.<br>NO. | (b)<br>ITEM NO. OR<br>REFERENCE |
|                    |                         | USABLE ON REFERENCE NUMBER & MFR/ CODE CODE            |                   |                      | (a)<br>1-20 | (b)<br>21-50  | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50          | (c)<br>51-100 | 51155                  | EQUIP                 | <b>14</b> 0.       | DESIGNATION                     |
| P-H                | 5935-071-1235           | A360 CONNECTOR, RECEPTACLE,<br>ELEC: MW20FMA00 (81349) | EA                | 1                    |             |               |               |             |                       |               | 4                      | 5                     |                    | J7                              |
| P-H                |                         | A361 CONNECTOR, RECEPTACLE,<br>ELEC: MW20MMA00 (81349) | EA                | 1                    |             |               |               |             |                       |               | 4                      | 5                     |                    | J8                              |
| P-D                |                         | A361A FILTER, RF:<br>SMC667851 (18038)                 | EA                | 1                    |             |               |               |             |                       |               |                        | *                     | 5-1                | FL2                             |
| P-D                |                         | A362 FILTER:<br>SMC667925 (18038)                      | EA                | 1                    |             |               |               |             |                       |               |                        | 3                     |                    | FL1                             |
| X2-D               |                         | A363 SCREW, MACHINE:<br>SAME AS A15                    | EA                | 4                    |             |               |               |             |                       |               |                        |                       |                    | H4                              |
| X2-D               | 5310-209-0786           | A364 WASHER, LOCK:<br>MS35335-33 (96906)               | EA                | 2                    |             |               |               |             |                       |               |                        |                       |                    | H2                              |
| X2-D               | 5310-997-1888           | A365 NUT, PLAIN, HEXAGON:<br>MS35649-2252 (96906)      | EA                | 2                    |             |               |               |             |                       |               |                        |                       |                    | H2                              |
| M-D                |                         | A366 GUARD, SWITCH:<br>SMB667945 (18038)               | EA                | 1                    |             |               |               |             |                       |               |                        |                       |                    | MP12                            |
| X2-D               | 5305-922-6286           | A367 SCREW, MACHINE:<br>MS35275-228 (96906)            | EA                | 2                    |             |               |               |             |                       |               |                        |                       |                    | H2                              |
| X2-D               | 5310-577-5506           | A368 WASHER, FLAT:<br>MS15795-306 (96906)              | EA                | 2                    |             |               |               |             |                       |               |                        |                       |                    | H2                              |
| X2-D               |                         | A369 HOUSING, CASTING<br>SMD667936 (18038)             | EA                | 1                    |             |               |               |             |                       |               |                        |                       |                    | MP13                            |
| P-O                | 6240-155-7836           | A370 LAMP, INCANDESCENT:<br>MS25237-327 (96906)        | EA                | 3                    | 1           | 1             | 2             | 1           | 1                     | 2             | 27                     | 150                   | 5-8                | DS1                             |
| P-O                | 6240-155-7836           | A371 LAMP, INCANDESCENT:<br>SAME AS A370               | EA                | REF                  | REF         | REF           | REF           | REF         | REF                   | REF           | REF                    | REF                   | 5-8                | DS2                             |
|                    |                         |  |                   |                      |             |               |               |             |                       |               |                        |                       |                    |                                 |
|                    |                         |  |                   |                      |             |               |               |             |                       |               |                        |                       |                    |                                 |
|                    |                         |  |                   |                      |             |               |               |             |                       |               |                        |                       |                    |                                 |
|                    |                         |  |                   |                      |             |               |               |             |                       |               |                        |                       |                    |                                 |
|                    |                         |  |                   |                      |             |               |               |             |                       |               |                        |                       |                    |                                 |
|                    |                         |  |                   |                      |             |               |               |             |                       |               |                        |                       |                    |                                 |
|                    |                         |  |                   |                      |             |               |               |             |                       |               |                        |                       |                    |                                 |
|                    |                         |  |                   |                      |             |               |               |             |                       |               |                        |                       |                    |                                 |

TM 11-6130-266-15 SECTION IV. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                            |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS M<br>LOWAN |               |             | (7)<br>AY GS N<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b)                  |
|--------------------|-----------------------------------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|---|
|                    |                                   | REFERENCE NUMBER & MFR CODE                   | USABLE ON<br>CODE | IVIEAS                    | ONIT                         | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100                            | NO.         | ITEM NO. OR<br>REFERENCE<br>DESIGNATION |
| P-O                | 6240-155-7836                     | A372 LAMP, INCANDESCENT:<br>SAME AS A370      |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-8         | DS3                                     |
| P-F                | 6210-176-4928                     | A373 LAMPHOLDER:<br>LH89-1 (81349)            |                   | EA                        | 3                            | *           | *                       | 1             | *           | *                       | 1             | 8                          | 15                             |             | XDS1                                    |
| P-F                | 6210-176-4928                     | A374 LAMPHOLDER:<br>SAME AS A373              |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | XDS2                                    |
| P-F                | 6210-176-4928                     | A375 LAMPHOLDER:<br>SAME AS A373              |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | XDS3                                    |
| P-O                | 6210-151-5246                     | A376 LENS:<br>LC36GD2 (81349)                 |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 5                              |             | MP14                                    |
| P-O                |                                   | A377 LENS:<br>LC36YD2 (81349)                 |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 5                              |             | MP15                                    |
| P-O                |                                   | A378 LENS:<br>LC36RD2 (81349)                 |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 5                              |             | MP16                                    |
| P-F                |                                   | A379 LOCK ASSEMBLY:<br>SMB667949 (18038)      |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 3                              |             | A10                                     |
| P-F                |                                   | A383 METER:<br>SMC667920 (18038)              |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 4                          | 6                              | 5-8         | M1                                      |
| X2-D               | 5305-054-6656                     | A386 SCREW, MACHINE:<br>MS51957-32 (96906)    |                   | EA                        | 3                            |             |                         |               |             |                         |               |                            |                                |             | H3                                      |
| X2-D               | 5310-929-6395                     | A387 WASHER, LOCK:<br>MS35338-136 (96906)     |                   | EA                        | 3                            |             |                         |               |             |                         |               |                            |                                |             | H3                                      |
| X2-D               | 5310-934-9751                     | A388 NUT, PLAIN, HEXAGON: MS35650-302 (96906) |                   | EA                        | 6                            |             |                         |               |             |                         |               |                            |                                |             | H6                                      |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |        | (3)<br>DESCRIPTION                          |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>PAY GS I |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-----------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERE | NCE NUMBER & MFR CODE                       | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50    | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               |                                   | A389   | PAD, RUBBER:<br>SMB667942-1 (18038)         |                   | EA                        | 1                            |             |                         |               |             |                 |               |                            |                                |             | MP17                               |
| X2-D               |                                   | A390   | PAD, RUBBER:<br>SMB667942-2 (18038)         |                   | EA                        | 1                            |             |                         |               |             |                 |               |                            |                                |             | MP18                               |
| X2-D               |                                   | A391   | PAD, RUBBER:<br>SMC667946 (18038)           |                   | EA                        | 1                            |             |                         |               |             |                 |               |                            |                                |             | MP19                               |
| M-F                |                                   | A392   | PLATE, IDENTIFICATION:<br>SMC667922 (18038) |                   | EA                        | 1                            |             |                         |               |             |                 |               |                            |                                |             | MP20                               |
| X2-D               | 5305-052-8874                     | A393   | SCREW, SELF-TAPPING:<br>MS24630-1 (96906)   |                   | EA                        | 4                            |             |                         |               |             |                 |               |                            |                                |             | H4                                 |
| M-F                |                                   | A394   | PLATE, IDENTIFICATION:<br>SMB667947 (18038) |                   | EA                        | 1                            |             |                         |               |             |                 |               |                            |                                |             | MP21                               |
| M-F                |                                   | A395   | PLATE, IDENTIFICATION:<br>SMB667948 (18038) |                   | EA                        | 1                            |             |                         |               |             |                 |               |                            |                                |             | MP22                               |
| M-D                |                                   | A396   | PLATE, SUPPORT:<br>SMB667928 (18038)        |                   | EA                        | 1                            |             |                         |               |             |                 |               |                            |                                |             | MP23                               |
| X-D                | 5305-993-9269                     | A397   | SCREW, MACHINE:<br>MS3212-28 (96906)        |                   | EA                        | 2                            |             |                         |               |             |                 |               |                            |                                |             | H2                                 |
| X2-D               | 5310-045-3299                     | A398   | WASHER, LOCK:<br>SAME AS A9                 |                   | EA                        | 2                            |             |                         |               |             |                 |               |                            |                                |             | H2                                 |
| X2-D               | 5310-809-8544                     | A399   | WASHER, FLAT:<br>SAME AS A10                |                   | EA                        | 2                            |             |                         |               |             |                 |               |                            |                                |             | H2                                 |
| X2-D               | 5310-934-9757                     | A400   | NUT, PLAIN, HEXAGON:<br>SAME AS A17         |                   | EA                        | 2                            |             |                         |               |             |                 |               |                            |                                |             | H2                                 |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                                    | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>Ay Ds N<br>Lowan |               |             | (7)<br>AY GS I |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|----------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | USABLE ON REFERENCE NUMBER & MFR CODE CODE            |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                |                                   | A401 PLUG, PROTECTIVE:<br>1-8 NPTF (70318)            | EA                        | 1                            | *           | *                       | *             | *           | *              | *             | 4                          | 5                              |             | MP26                               |
| P-O                |                                   | A402 POWER CORD, AC:<br>CX-11979/U (81349)            | EA                        | 1                            | *           | 1                       | 1             | *           | 1              | 1             | 12                         | 15                             |             | W1                                 |
| P-O                | 5995-466-0217                     | A403 POWER CORD, DC:<br>CX-12342/U (81349)            | EA                        | 1                            | *           | 1                       | 1             | *           | 1              | 1             | 12                         | 15                             |             | W2                                 |
| А-Н                |                                   | A404 POWER TRANSFER ASSEMBLY:<br>SMD667894 (18038)    | EA                        | 1                            |             |                         |               |             |                |               |                            |                                | 5-7         | A6                                 |
| X2-D               | 5305-984-6209                     | A405 SCREW, MACHINE:<br>SAME AS A106                  | EA                        | 4                            |             |                         |               |             |                |               |                            |                                |             | H4                                 |
| X2-D               | 5305-984-6210                     | A406 SCREW, MACHINE:<br>MS35206-263 (96906)           | EA                        | 3                            |             |                         |               |             |                |               |                            |                                |             | H3                                 |
| X2-D               | 5310-045-3296                     | A407 WASHER, LOCK:<br>SAME AS A32                     | EA                        | 7                            |             |                         |               |             |                |               |                            |                                |             | H7                                 |
| А-Н                |                                   | A408 COMPONENT BOARD ASSEMBLY:<br>SMD667899 (18038)   | EA                        | 1                            |             |                         |               |             |                |               |                            |                                | 5-7         | A6A1                               |
| P-F                | 5910-082-4767                     | A409 CAPACITOR, FIXED, ELECT:<br>CL23CD100UN3 (81349) | EA                        | 1                            | *           | *                       | *             | *           | *              | *             | 4                          | 5                              | 5-7         | A6A1C1                             |
| X2-D               |                                   | A410 PLATE, CONTACT:<br>SMB667902 (18038)             | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A6A1E6                             |
| X2-D               |                                   | A411 SCREW, MACHINE:<br>AN508-6-4 (88044)             | EA                        | 2                            |             |                         |               |             |                |               |                            |                                |             | A6A1H2                             |
| P-D                |                                   | A412 PRINTED CIRCUIT BOARD:<br>SMD667900 (18038)      | EA                        | 1                            |             |                         |               |             |                |               |                            | 3                              |             | A6A1MP1                            |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK | (3)<br>DESCRIPTION                                      |                   | (4)<br>UNIT<br>OF | (5)<br>QTY<br>INC IN | 30-D        | (6)<br>AY DS M | AINT          | 30-D        | (7)<br>AY GS I | //AINT        | (8)<br>1 YR.<br>ALW    | (9)<br>DEPT<br>MAIN     |                    | (10)<br>ILLUSTRATIONS                 |
|--------------------|-------------------------|---|-------------------|-------------------|----------------------|-------------|----------------|---------------|-------------|----------------|---------------|------------------------|-------------------------|--------------------|---------------------------------------|
| CODE               | NUMBER                  | U<br>REFERENCE NUMBER & MFR CODE                        | JSABLE ON<br>CODE | MEAS              | UNIT                 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | PER<br>EQUIP<br>CNTGCY | ALW PER<br>100<br>EQUIP | (a)<br>FIG.<br>NO. | (b) ITEM NO. OR REFERENCE DESIGNATION |
| P-F                | 5905-230-7713           | A413 RESISTOR, FIXED, FILM:<br>RN70C3972B (81349)       |                   | EA                | 1                    | *           | *              | *             | *           | *              | *             | 4                      | 3                       | 5-7                | A6A1R2                                |
| P-F                | 5905-061-5355           | A414 RESISTOR, FIXED, FILM:<br>RN65C9091F (81349)       |                   | EA                | 1                    | *           | *              | *             | *           | *              | *             | 4                      | 3                       | 5-7                | A6A1R3                                |
| P-F                | 5905-087-0545           | A415 RESISTOR, FIXED,<br>WIREWOUND: RW69V102<br>(81349) |                   | EA                | 1                    | *           | *              | *             | *           | *              | *             | 7                      | 6                       | 5-7                | A6A1R5                                |
| P-F                | 5905-061-2089           | A416 RESISTOR, FIXED,<br>WIREWOUND: SAME AS A294        |                   | EΑ                | 1                    | REF         | REF            | REF           | REF         | REF            | REF           | REF                    | REF                     | 5-7                | A6A1R4                                |
| X2-D               | 5940-280-0601           | A417 TERMINAL, STUD:<br>SAME AS A247                    |                   | EA                | 6                    |             |                |               |             |                |               |                        |                         |                    | A6A1E1                                |
| X2-D               | 5940-280-0601           | A418 TERMINAL, STUD;<br>SAME AS A247                    |                   | EA                | REF                  |             |                |               |             |                |               |                        |                         |                    | A6A1E2                                |
| X2-D               | 5940-280-0601           | A419 TERMINAL, STUD:<br>SAME AS A247                    |                   | EA                | REF                  |             |                |               |             |                |               |                        |                         |                    | A6A1E4                                |
| X2-D               | 5940-280-0601           | A420 TERMINAL, STUD:<br>SAME AS A247                    |                   | EA                | REF                  |             |                |               |             |                |               |                        |                         |                    | A6A1E5                                |
| X2-D               | 5940-280-0601           | A421 TERMINAL, STUD:<br>SAME AS A247                    |                   | EA                | REF                  |             |                |               |             |                |               |                        |                         |                    | A6A1E11                               |
| X2-D               | 5940-280-0601           | A422 TERMINAL, STUD:<br>SAME AS A247                    |                   | EΑ                | REF                  |             |                |               |             |                |               |                        |                         |                    | A6A1E12                               |
| X2-D               |                         | A423 TERMINAL, STANDOFF: 9573BB1032-14 (06540)          |                   | EA                | 4                    |             |                |               |             |                |               |                        |                         |                    | A6A1E7                                |
| X2-D               |                         | A424 TERMINAL, STANDOFF:<br>SAME AS A423                |                   | EA                | REF                  |             |                |               |             |                |               |                        |                         |                    | A6A1E8                                |

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| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPT                              | TION           | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN | 30-D        | (6)<br>AY DS N<br>LOWAN | IAINT         | 30-D        | (7)<br>AY GS I | MAINT         | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--|----------------|---------------------------|----------------------|-------------|-------------------------|---------------|-------------|----------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR C                     | USABLE ON CODE |                           |                      | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               |                                   | A425 TERMINAL, STANDO<br>SAME AS A423        | PFF:           | EA                        | REF                  |             |                         |               |             |                |               |                            |                                |             | A6A1E9                             |
| X2-D               |                                   | A426 TERMINAL, STANDO<br>SAME AS A423        | PFF:           | EA                        | REF                  |             |                         |               |             |                |               |                            |                                |             | A6A1E10                            |
| M-D                |                                   | A427 PLATE, SUPPORT:<br>C8157 (18038)        |                | EA                        | 1                    |             |                         |               |             |                |               |                            |                                |             | A6MP1                              |
| P-F                |                                   | A428 RELAY:<br>SMB667898 (18038)             |                | EA                        | 1                    | *           | *                       | *             | *           | *              | *             | 5                          | 7                              | 5-7         | A6K1                               |
| X2-D               | 5310-934-9747                     | A429 NUT, PLAIN, HEXAG<br>SAME AS A37        | ON:            | EA                        | 4                    |             |                         |               |             |                |               |                            |                                |             | A6H4                               |
| X2-D               | 5310-209-0788                     | A430 WASHER, LOCK:<br>SAME AS A36            |                | EA                        | 4                    |             |                         |               |             |                |               |                            |                                |             | A6H4                               |
| P-F                |                                   | A431 RESISTOR, SHUNT:<br>SMC667897 (18038)   |                | EA                        | 1                    | *           | *                       | *             | *           | *              | *             | 2                          | 3                              | 5-7         | A6R1                               |
| X2-D               | 5305-637-1124                     | A432 SCREW, MACHINE:<br>MS35229-43 (96906)   | )              | EA                        | 2                    |             |                         |               |             |                |               |                            |                                |             | A6H2                               |
| X2-D               | 5310-576-0546                     | A433 WASHER, LOCK:<br>MS35338-99 (96906)     | 1              | EA                        | 2                    |             |                         |               |             |                |               |                            |                                |             | A6H2                               |
| X2-D               | 5310-209-0786                     | A434 WASHER, LOCK:<br>SAME AS A364           |                | EA                        | 2                    |             |                         |               |             |                |               |                            |                                |             | A6H2                               |
| X2-D               |                                   | A435 WASHER, FLAT:<br>MS15795-607 (9690      | 3)             | EA                        | 2                    |             |                         |               |             |                |               |                            |                                |             | A6H2                               |
| X2-D               |                                   | A436 NUT, PLAIN, HEXAG<br>MS35691-431 (9690) |                | EA                        | 4                    |             |                         |               |             |                |               |                            |                                |             | A6H4                               |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION  |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT | 30-D        | (6)<br>AY DS M<br>LOWAN | IAINT         | 30-D        | (7)<br>AY GS I | MAINT         | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|----------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                                 | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| A-H                |                                   | A437 PRE-REGULATOR ASSEMBLY SMD667881 (18038)               | :                 | EΑ                        | 1                            |             |                         |               |             |                |               |                            |                                | 5-5         | A4                                 |
| X2-D               | 5305-984-6193                     | A438 SCREW, MACHINE:<br>SAME AS A28                         |                   | EA                        | 4                            |             |                         |               |             |                |               |                            |                                |             | H4                                 |
| X2-D               | 5310-045-3299                     | A439 WASHER, LOCK:<br>SAME AS A9                            |                   | EA                        | 4                            |             |                         |               |             |                |               |                            |                                |             | H4                                 |
| M-D                |                                   | A440 BRACKET, MOUNTING:<br>SMB667887 (18038)                |                   | EA                        | 2                            |             |                         |               |             |                |               |                            |                                |             | A4MP1                              |
| M-D                |                                   | A441 BRACKET, MOUNTING:<br>SAME AS A440                     |                   | EA                        | REF                          |             |                         |               |             |                |               |                            |                                |             | A4MP2                              |
| A2-D               | 5305-993-2738                     | A451 SCREW, MACHINE:<br>MS35207-280 (96906)                 |                   | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A4H1                               |
| X2-D               | 5310-209-0786                     | A452 WASHER, LOCK:<br>SAME AS A364                          |                   | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A4H1                               |
| X2-D               | 5310-043-0520                     | A453 NUT, PLAIN, HEXAGON:<br>MS35650-3252 (96906)           |                   | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A4H1                               |
| A-H                |                                   | A457 COMPONENT BOARD ASSY,<br>GATE: C8107 (18038)           |                   | EA                        | 1                            |             |                         |               |             |                |               |                            |                                | 5-5         | A4H2                               |
| X2-D               | 5305-984-4988                     | A458 SCREW, MACHINE:<br>SAME AS A12                         |                   | EA                        | 2                            |             |                         |               |             |                |               |                            |                                |             | A4H2                               |
| X2-D               | 5310-045-4007                     | A459 WASHER, LOCK:<br>SAME AS A13                           |                   | EA                        | 2                            |             |                         |               |             |                |               |                            |                                |             | A4H2                               |
| X2-D               | 5310-983-8483                     | A460 WASHER, FLAT:<br>SAME AS A170                          |                   | EA                        | 2                            |             |                         |               |             |                |               |                            |                                |             | A4H2                               |
| P-F                | 5910-904-3983                     | A461 CAPACITOR, FXD,<br>ELECTROLYTIC: CS13BF226N<br>(81349) | 1                 | EA                        | 2                            | *           | 1                       | 2             | *           | 1              | 2             | 19                         | 20                             | 5-5         | A4A2C1                             |

TM 11-6130-266-15

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS M<br>LOWAN |               |             | (7)<br>Ay GS N<br>Lowan |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | USABLE ON CODE CODE                                  |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                | 5910-904-3983                     | A462 CAPACITOR, FXD,<br>ELECTROLYTIC: SAME AS A461   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2C2                             |
| P-F                | 5910-082-4925                     | A463 CAPACITOR, FIXED,<br>ELECTROLYTIC: SAME AS A191 | EA                        | 2                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2C3                             |
| P-F                | 5910-082-4925                     | A464 CAPACITOR, FIXED,<br>ELECTROLYTIC: SAME AS A191 | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2C4                             |
| P-D                |                                   | A465 CONNECTOR, PLUG,<br>ELECTRICAL: SAME AS A193    | EA                        | 1                            |             |                         |               |             |                         |               |                            | REF                            |             | A4A2P1                             |
| X2-D               |                                   | A466 SCREW, MACHINE:<br>SAME AS A194                 | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A4A2H2                             |
| X2-D               | 5310-543-2410                     | A467 WASHER, LOCK:<br>SAME AS A119                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A4A2H2                             |
| X2-D               | 5310-934-9739                     | A468 NUT, PLAIN, HEXAGON:<br>SAME AS A120            | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A4A2H2                             |
| P-F                |                                   | A469 PAD, TRANSISTOR:<br>SAME AS A200                | EA                        | 2                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A4A2MP1                            |
| P-F                |                                   | A470 PAD, TRANSISTOR:<br>SAME AS A200                | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A4A2MP2                            |
| P-D                |                                   | A471 PRINTED CIRCUIT BOARD:<br>SMD667891 (18038)     | EA                        | 1                            |             |                         |               |             |                         |               |                            | 3                              |             | A4A2MP3                            |
| P-F                | 5905-900-2089                     | A472 RESISTOR, FIXED, FILM:<br>RL205101J (81349)     | EA                        | 4                            | *           | *                       | 1             | *           | *                       | 1             | 13                         | 18                             | 5-5         | A4A2R1                             |
| P-F                | 5905-900-2089                     | A473 RESISTOR, FIXED, FILM:<br>SAME AS A472          | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2R2                             |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                                      | (4)<br>UNIT<br>OF<br>MEAS | INC IN |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS I<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|---------------------------|--------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | USABL<br>REFERENCE NUMBER & MFR CODE CO                 |                           |        | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                | 5905-900-2089                     | A474 RESISTOR, FIXED, FILM:<br>SAME AS A472             | EA                        | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2R7                             |
| P-F                | 5905-900-2089                     | A475 RESISTOR, FIXED, FILM:<br>SAME AS A472             | EA                        | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2R8                             |
| P-F                | 5905-766-8216                     | A476 RESISTOR, FIXED, FILM:<br>RL20S151J (81349)        | EA                        | 2      | *           | *                       | *             | *           | *                       | *             | 5                          | 6                              | 5-5         | A4A2R5                             |
| P-F                | 5905-766-8216                     |   | EA                        | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2R6                             |
| P-F                | 5905-901-4016                     |   | EA                        | 2      | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2R3                             |
| P-F                | 5905-901-4016                     | A479 RESISTOR, FIXED, FILM:<br>SAME AS A222             | EA                        | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2R4                             |
| P-F                | 5905-975-1135                     | A480 RESISTOR, FIXED,<br>WIREWOUND: RW69V821<br>(81349) | EA                        | 2      | *           | *                       | *             | *           | *                       | *             | 10                         | 12                             | 5-5         | A4A2R9                             |
| P-F                | 5905-975-1135                     | A481 RESISTOR, FIXED,<br>WIREWOUND: SAME AS A480        | EA                        | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2R10                            |
| P-F                | 5961-087-6047                     | A482 SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239       | EA                        | 4      | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2CR1                            |
| P-F                | 5961-087-6047                     | A483 SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239       | EA                        | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2CR2                            |
| P-F                | 5961-087-6047                     | A484 SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239       | EA                        | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2CR3                            |
| P-F                | 5961-087-6047                     | A485 SEMICONDUCTOR DEVICE,<br>DIODE: SAME AS A239       | EA                        | REF    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2CR4                            |
| X2-D               |                                   | A486 TERMINAL, STANDOFF: 9531BB063-14 (06540)           | EA                        | 2      |             |                         |               |             |                         |               |                            |                                |             | A4A2E1                             |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION  |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN | 30-D        | (6)<br>AY DS M<br>LOWAN | AINT          | 30-D        | (7)<br>AY GS N<br>LOWAN | //AINT        | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|-------------------|---------------------------|----------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                               | USABLE ON<br>CODE |                           | -                    | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               |                                   | A487 TERMINAL, STANDOFF:<br>SAME AS A486                  |                   | EA                        | REF                  |             |                         |               |             |                         |               |                            |                                |             | A4A2E2                             |
| P-F                | 5961-853-2601                     | A488 TRANSISTOR:<br>SAME AS A249                          |                   | EA                        | 2                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2Q1                             |
| P-F                | 5961-853-2601                     | A489 TRANSISTOR:<br>SAME AS A249                          |                   | EA                        | REF                  | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-5         | A4A2Q2                             |
| P-D                |                                   | A490 CONNECTOR, RECEPTACLE, ELEC: SAME AS A117            |                   | EA                        | 1                    |             |                         |               |             |                         |               |                            | REF                            |             | A4J1                               |
| X2-D               | 5305-983-6730                     | A491 SCREW, MACHINE;<br>MS35206-218 (96906)               |                   | EA                        | 2                    |             |                         |               |             |                         |               |                            |                                |             | A4H2                               |
| X2-D               | 5310-543-2410                     | A492 WASHER, LOCK;<br>SAME AS A119                        |                   | EA                        | 2                    |             |                         |               |             |                         |               |                            |                                |             | A4H2                               |
| X2-D               | 5310-934-9739                     | A493 NUT, PLAIN, HEXAGON;<br>SAME AS A120                 |                   | EA                        | 2                    |             |                         |               |             |                         |               |                            |                                |             | A4H2                               |
| M-D                |                                   | A494 INSEPARABLE ASSY BOARD SUPPORT: C8150 (18038)        |                   | EA                        | 1                    |             |                         |               |             |                         |               |                            |                                |             | A4A3                               |
| X2-D               | 5310-934-9747                     | A495 NUT, PLAIN, HEXAGON:<br>SAME AS A37                  |                   | EA                        | 4                    |             |                         |               |             |                         |               |                            |                                |             | A4H4                               |
| X2-D               | 5310-045-4007                     | A496 WASHER, LOCK:<br>SAME AS A13                         |                   | EA                        | 4                    |             |                         |               |             |                         |               |                            |                                |             | A4H4                               |
| P-H                |                                   | A499 MAGNETIC AMPLIFIER<br>ASSEMBLY: SMD667883<br>(18038) |                   | EA                        | 1                    |             |                         |               | *           | *                       | *             | 4                          | 5                              |             | A4A1                               |
|                    |                                   |   |                   |                           |                      |             |                         |               |             |                         |               |                            |                                |             |                                    |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | DESC                                 | (3)<br>CRIPTION |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT | 30-D        | (6)<br>AY DS N<br>LOWAN | IAINT         | 30-D        | (7)<br>AY GS I | //AINT        | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--------------------------------------|-----------------|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|----------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & N                 | IFR CODE        | USABLE ON<br>CODE | IVIEAS                    | ONIT                         | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| M-D                |                                   | A500 PLATE, MOUNT<br>SMB667884 (18   |                 |                   | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A4MP3                              |
| X2-D               | 5310-934-9747                     | A501 NUT, PLAIN, HE<br>SAME AS A37   | EXAGON:         |                   | EA                        | 2                            |             |                         |               |             |                |               |                            |                                |             | A4H2                               |
| X2-D               | 5310-045-4007                     | A502 WASHER, LOCK<br>SAME AS A13     | K:              |                   | EA                        | 2                            |             |                         |               |             |                |               |                            |                                |             | A4H2                               |
| P-H                | 5961-060-5778                     | A503 SEMICONDUCT<br>DIODE: JAN2N     |                 |                   | EA                        | 2                            |             |                         |               | *           | *              | 1             | 10                         | 10                             |             | A4Q1                               |
| X2-D               | 5310-113-3757                     | A504 NUT, PLAIN, HE<br>MS35650-3392  |                 |                   | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A4H1                               |
| X2-D               | 5310-194-1483                     | A505 WASHER, LOCK<br>MS35333-44 (96  |                 |                   | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A4H1                               |
| X2-D               | 5310-809-5998                     | A506 WASHER, FLAT<br>MS27183-18 (96  |                 |                   | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A4H1                               |
| P-H                |                                   | A507 WASHER, INSU<br>MW1375-526 (0   |                 |                   | EA                        | 2                            |             |                         |               | *           | 1              | 1             | 16                         | 16                             |             | A4H1                               |
| P-H                |                                   | A508 BUSHING, INSU<br>TW510-570 (08) |                 |                   | EA                        | 1                            |             |                         |               | *           | *              | *             | 5                          | 6                              |             | A4H1                               |
| X2-D               | 5305-984-4988                     | A509 SCREW, MACH<br>SAME AS A12      | INE:            |                   | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A4H1                               |
| X2-D               | 5310-934-9747                     | A510 WASHER, LOCK<br>SAME AS A36     | K:              |                   | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A4H1                               |
| P-H                | 5961-060-5778                     | A511 SEMICONDUCT<br>DIODE: SAME A    |                 |                   | EA                        | REF                          |             |                         |               | REF         | REF            | REF           | REF                        | REF                            | 5-5         | A4Q2                               |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                               |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS I<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                      | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5310-113-3757                     | A512 NUT, PLAIN, HEXAGON:<br>SAME AS A504        |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A4H1                               |
| X2-D               | 5310-194-1483                     | A513 WASHER, LOCK:<br>SAME AS A505               |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A4H1                               |
| X2-D               | 5310-809-5998                     | A514 WASHER, FLAT:<br>SAME AS A506               |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A4H1                               |
| P-H                |                                   | A515 WASHER, INSULATING:<br>SAME AS A507         |                   | EA                        | 2                            |             |                         |               | REF         | REF                     | REF           | REF                        | REF                            |             | A4H2                               |
| P-H                |                                   | A516 BUSHING, INSULATING:<br>SAME AS A508        |                   | EA                        | 1                            |             |                         |               | REF         | REF                     | REF           | REF                        | REF                            |             | A4H1                               |
| X2-D               | 5305-984-4988                     | A517 SCREW, MACHINE;<br>SAME AS A12              |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A4H1                               |
| X2-D               | 5310-209-0788                     | A518 WASHER, LOCK:<br>SAME AS A36                |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A4H1                               |
| P-H                | 5940-681-9772                     | A519 TERMINAL BOARD:<br>25TB9 (81349)            |                   | EA                        | 1                            |             |                         |               | *           | *                       | *             | 5                          | 4                              |             | A4MP4                              |
| X2-D               | 5310-934-9747                     | A520 NUT, PLAIN, HEXAGON:<br>SAME AS A37         |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A4H2                               |
| X2-D               | 5310-045-4007                     | A521 WASHER, LOCK;<br>SAME AS A13                |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A4H2                               |
| X2-D               | 5310-983-8483                     | A522 WASHER, FLAT:<br>SAME AS A170               |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A4H2                               |
| P-F                | 5905-807-0832                     | A523 RESISTOR, VARIABLE:<br>RA20SASD252A (81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                       | *             | 6                          | 5                              | 5-8         | R3                                 |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                             |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>Ay ds N<br>Lowan |               |             | (7)<br>AY GS I<br>LLOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|--------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                    | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50             | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5310-595-7237                     | A524 WASHER, LOCK:<br>MS35333-42 (96906)       |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | H1                                 |
| P-F                |                                   | A525 LOCK, SHAFT:<br>12Z72015 (18038)          |                   | EA                        | 1                            | *           | *                       | *             | *           | *                        | *             | 4                          | 5                              |             | MP26                               |
| X2-D               | 5305-984-6191                     | A526 SCREW, MACHINE;<br>SAME AS A8             |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | H2                                 |
| X2-D               | 5305-984-6209                     | A527 SCREW, MACHINE:<br>SAME AS A106           |                   | EA                        | 6                            |             |                         |               |             |                          |               |                            |                                |             | H6                                 |
| P-F                | 5930-660-3954                     | A528 SWITCH, TOGGLE:<br>MS24525-23 (96906)     |                   | EA                        | 1                            | *           | *                       | *             | *           | *                        | *             | 5                          | 6                              | 5-8         | S1                                 |
| X2-D               | 5310-616-2973                     | A529 NUT, PLAIN, HEXAGON:<br>MS25082-8 (96906) |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | Н1                                 |
| X2-D               | 5310-905-5454                     | A530 WASHER, LOCK<br>MS35333-121 (96906)       |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | H2                                 |
| X2-D               | 5310-924-5968                     | A531 WASHER LOCK:<br>MS25081-4 (96906)         |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | H1                                 |
| P-F                | 5330-574-6704                     | A532 BUSHING, SEAL: 32-341 (15605)             |                   | EA                        | 1                            | *           | *                       | 1             | *           | *                        | 1             | 13                         | 15                             |             | H1                                 |
| P-F                | 5930-655-4245                     | A533 SWITCH, TOGGLE:<br>MS24524-26 (96906)     |                   | EA                        | 1                            | *           | *                       | *             | *           | *                        | *             | 5                          | 6                              | 5-8         | S2                                 |
| X2-D               | 5310-616-2973                     | A534 NUT, PLAIN, HEXAGON:<br>SAME AS A529      |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | H1                                 |
| X2-D               | 5310-905-5454                     | A535 WASHER, LOCK:<br>SAME AS A530             |                   | EA                        | 2                            | *           | *                       | *             |             | *                        |               |                            |                                |             | H2                                 |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK | (3)<br>DESCRIPTION                             |                   | (4)<br>UNIT<br>OF | (5)<br>QTY<br>INC IN |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS N<br>LOWAN |               | (8)<br>1 YR.<br>ALW    | (9)<br>DEPT<br>MAIN     | (a)         | (10) ILLUSTRATIONS (b)                  |
|--------------------|-------------------------|--|-------------------|-------------------|----------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|------------------------|-------------------------|-------------|---|
|                    | NUMBER                  | REFERENCE NUMBER & MFR CODE                    | USABLE ON<br>CODE | MEAS              | UNIT                 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | PER<br>EQUIP<br>CNTGCY | ALW PER<br>100<br>EQUIP | FIG.<br>NO. | ITEM NO. OR<br>REFERENCE<br>DESIGNATION |
| X2-D               | 5310-924-5968           | A536 WASHER, KEY:<br>SAME AS A531              |                   | EA                | 1                    |             |                         |               |             |                         |               |                        |                         |             | Н1                                      |
| P-F                | 5330-574-6704           | A537 BUSHING ,SEAL:<br>SAME AS A532            |                   | EA                | 1                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     |             | H1                                      |
| P-F                | 5930-683-1629           | A538 SWITCH, TOGGLE:<br>MS24523-23 (96906)     |                   | EA                | 1                    | *           | *                       | *             | *           | *                       | *             | 5                      | 6                       | 5-8         | S1                                      |
| X2-D               | 5310-616-2973           | A539 NUT, PLAIN, HEXAGON<br>SAME AS A529       |                   | EA                | 1                    |             |                         |               |             |                         |               |                        |                         |             | Н1                                      |
| X2-D               | 5310-905-5454           | A540 WASHER, LOCK:<br>SAME AS A530             |                   | EA                | 2                    |             |                         |               |             |                         |               |                        |                         |             | H2                                      |
| X2-D               | 5310-924-5968           | A541 WASHER, KEY:<br>SAME AS A531              |                   | EA                | 1                    |             |                         |               |             |                         |               |                        |                         |             | H1                                      |
| P-F                | 5330-574-6704           | A542 BUSHING, SEAL:<br>SAME AS A532            |                   | EA                | 1                    | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                    | REF                     |             | Н1                                      |
| P-H                |                         | A543 TRANSFORMER, POWER;<br>SMD667923 (18038)  |                   | EA                | 1                    |             |                         |               | *           | *                       | *             | 4                      | 5                       | 5-1         | T1                                      |
| X2-D               |                         | A544 SCREW, MACHINE;<br>MS3212-52 (96906)      |                   | EA                | 3                    |             |                         |               |             |                         |               |                        |                         |             | H3                                      |
| A-H                |                         | A545 TRANSISTOR ASSEMBLY:<br>SMD667867 (18038) |                   | EA                | 1                    |             |                         |               |             |                         |               |                        |                         | 5-1         | A3                                      |
| X2-D               | 5305-984-6193           | A546 SCREW, MACHINE;<br>SAME AS A28            |                   | EA                | 2                    |             |                         |               |             |                         |               |                        |                         |             | H2                                      |
| X2-D               | 5310-045-3299           | A547 WASHER, LOCK:<br>SAME AS A9               |                   | EA                | 2                    |             |                         |               |             |                         |               |                        |                         |             | H2                                      |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK | (3)<br>DESCRIPTION                            |                   | (4)<br>UNIT<br>OF | (5)<br>QTY<br>INC IN | 30-D/       | (6)<br>AY DS N<br>LOWAN | IAINT         | 30-D        | (7)<br>AY GS I | MAINT         | (8)<br>1 YR.<br>ALW    | (9)<br>DEPT<br>MAIN     | (a)         | (10) ILLUSTRATIONS (b)                  |
|--------------------|-------------------------|---|-------------------|-------------------|----------------------|-------------|-------------------------|---------------|-------------|----------------|---------------|------------------------|-------------------------|-------------|---|
|                    | NUMBER                  | REFERENCE NUMBER & MFR CODE                   | USABLE ON<br>CODE | MEAS              | UNIT                 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | PER<br>EQUIP<br>CNTGCY | ALW PER<br>100<br>EQUIP | FIG.<br>NO. | ITEM NO. OR<br>REFERENCE<br>DESIGNATION |
| X2-D               | 5305-984-6210           | A548 SCREW, MACHINE:<br>SAME AS A406          |                   | EA                | 4                    |             |                         |               |             |                |               |                        |                         |             | H4                                      |
| X2-D               | 5310-045-3296           | A549 WASHER, LOCK:<br>SAME AS A32             |                   | EA                | 4                    |             |                         |               |             |                |               |                        |                         |             | H4                                      |
| M-D                |                         | A550 BRACKET, HEAT SINK:<br>SMC667868 (18038) |                   | EA                | 1                    |             |                         |               |             |                |               |                        |                         |             | A3MP1                                   |
| M-D                |                         | A551 BRACKET, MOUNTING: SMC667874 (18038)     |                   | EA                | 2                    |             |                         |               |             |                |               |                        |                         |             | A3MP2                                   |
| X2-D               | 5305-889-3000           | A552 SCREW, MACHINE:<br>SAME AS A35           |                   | EA                | 2                    |             |                         |               |             |                |               |                        |                         |             | A3H2                                    |
| X2-D               | 5310-045-4007           | A553 WASHER, LOCK:<br>SAME AS A13             |                   | EA                | 2                    |             |                         |               |             |                |               |                        |                         |             | A3H2                                    |
| M-D                |                         | A554 BRACKET, MOUNTING:<br>SAME AS A551       |                   | EA                | REF                  |             |                         |               |             |                |               |                        |                         |             | A3MP3                                   |
| X2-D               | 5305-889-3000           | A555 SCREW, MACHINE;<br>SAME AS A35           |                   | EA                | 2                    |             |                         |               |             |                |               |                        |                         |             | A3H2                                    |
| X2-D               | 5310-045-4007           | A556 WASHER, LOCK:<br>SAME AS A13             |                   | EA                | 2                    |             |                         |               |             |                |               |                        |                         |             | A3H2                                    |
| A-H                |                         | A557 COMPONENT ASSEMBLY:<br>SMD667876 (18038) |                   | EA                | 1                    |             |                         |               |             |                |               |                        |                         |             | A3A1                                    |
| X2-D               | 5305-984-4988           | A558 SCREW, MACHINE:<br>SAME AS A12           |                   | EA                | 1                    |             |                         |               |             |                |               |                        |                         |             | A3H1                                    |
| X2-D               | 5310-045-4007           | A559 WASHER, LOCK:<br>SAME AS A13             |                   | EA                | 1                    |             |                         |               |             |                |               |                        |                         |             | A3H1                                    |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER |        | (3)<br>DESCRIPTION                                 |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT | 30-D        | (6)<br>AY DS M<br>LOWAN | AINT          | 30-D        | (7)<br>AY GS II<br>LOWAN | MAINT         | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|--------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERE | NCE NUMBER & MFR CODE                              | USABLE ON<br>CODE | MLAO                      | OWN                          | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50             | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5310-209-0788                     | A560   | NUT, PLAIN, HEXAGON:<br>SAME AS A37                |                   | EA                        | 1                            | *           |                         |               |             |                          |               |                            |                                |             | A3H1                               |
| P-D                |                                   | A561   | PRINTED CIRCUIT, BOARD:<br>SMC667877 (18038)       |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            | 3                              | 5-4         | A3A1MP1                            |
| P-F                | 5905-900-2089                     | A562   | RESISTOR, FIXED, FILM:<br>SAME AS A472             |                   | EA                        | 2                            | REF         | REF                     | REF           | REF         | REF                      | REF           | REF                        | REF                            | 5-4         | A3A1R1                             |
| P-F                | 5905-900-2089                     | A563   | RESISTOR FIXED, FILM:<br>SAME AS A472              |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                      | REF           | REF                        | REF                            | 5-4         | A3A1R5                             |
| P-F                |                                   | A564   | RESISTOR, FIXED,<br>WIREWOUND: RW69VR50<br>(81349) |                   | EA                        | 4                            | *           | 1                       | 1             | *           | 1                        | 1             | 16                         | 20                             | 5-4         | A3A1R2                             |
| P-F                |                                   | A565   | RESISTOR, FIXED,<br>WIREWOUND: SAME AS A564        |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                      | REF           | REF                        | REF                            | 5-4         | A3A1R3                             |
| P-F                |                                   | A566   | RESISTOR, FIXED,<br>WIREWOUND: SAME AS A564        |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                      | REF           | REF                        | REF                            | 5-4         | A3A1R6                             |
| P-F                |                                   | A567   | RESISTOR, FIXED,<br>WIREWOUND: SAME AS A564        |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                      | REF           | REF                        | REF                            | 5-4         | A3A1R7                             |
| P-F                | 5905-994-7230                     | A568   | RESISTOR, FIXED,<br>WIREWOUND: RW69V8R2<br>(81349) |                   | EA                        | 1                            | *           | *                       | *             | *           | *                        | *             | 4                          | 10                             | 5-4         | A3A1R4                             |
| X2-D               |                                   | A569   | TERMINAL, STANDOFF: 9574BB1032-14 (06540)          |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | A3A1E7                             |
| X2-D               | 5940-280-0601                     | A570   | TERMINAL, STANDOFF:<br>SAME AS A247                |                   | EA                        | 5                            |             |                         |               |             |                          |               |                            |                                |             | A3A1E1                             |
|                    |                                   |        |  |                   |                           |                              |             |                         |               |             |                          |               |                            |                                |             |                                    |

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| (1)<br>SMR | (2)<br>FEDERAL  | (3) DESCRIPTION   |                   | (4)<br>UNIT |        |             | (6)<br>AY DS N |               |             | (7)<br>AY GS I |               | (8)<br>1 YR.    | (9)<br>DEPT     |             | (10)<br>ILLUSTRATIONS    |
|------------|-----------------|---|-------------------|-------------|--------|-------------|----------------|---------------|-------------|----------------|---------------|-----------------|-----------------|-------------|--------------------------|
| CODE       | STOCK<br>NUMBER |   | 110 A D. T. O. I  | OF<br>MEAS  | INC IN | AL          | LOWAN          | CE            | Al          | LLOWAN         | NCE           | ALW<br>PER      | MAIN<br>ALW PER | (a)<br>FIG. | (b)<br>ITEM NO. OR       |
|            |                 | REFERENCE NUMBER & MFR CODE                             | USABLE ON<br>CODE |             |        | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | EQUIP<br>CNTGCY | 100<br>EQUIP    | NO.         | REFERENCE<br>DESIGNATION |
| X2-D       | 5940-280-0601   | A571 TERMINAL, STANDOFF:<br>SAME AS A247                |                   | EA          | REF    |             |                |               |             |                |               |                 |                 |             | A3A1E2                   |
| X2-D       | 5940-280-0601   | A572 TERMINAL, STANDOFF:<br>SAME AS A247                |                   | EA          | REF    |             |                |               |             |                |               |                 |                 |             | A3A1E4                   |
| X2-D       | 5940-280-0601   | A573 TERMINAL, STANDOFF:<br>SAME AS A247                |                   | EA          | REF    |             |                |               |             |                |               |                 |                 |             | A3A1E6                   |
| X2-D       | 5940-280-0601   | A574 TERMINAL, STANDOFF:<br>SAME AS A247                |                   | EA          | REF    |             |                |               |             |                |               |                 |                 |             | A3A1E8                   |
| X2-D       |                 | A575 TERMINAL, STANDOFF:<br>1798-2 (71279)              |                   | EA          | 2      |             |                |               |             |                |               |                 |                 |             | A3A1E3                   |
| X2-D       |                 | A576 TERMINAL, STANDOFF:<br>SAME AS A575                |                   | EA          | REF    |             |                |               |             |                |               |                 |                 |             | A3A1E5                   |
| P-F        |                 | A577 RESISTOR, FIXED,<br>WIREWOUND: RW21V1R0<br>(81349) |                   | EA          | 1      | *           | *              | *             | *           | *              | *             | 4               | 10              | 5-4         | A3R8                     |
| P-F        | 5905-978-9326   | A578 RESISTOR, FIXED,<br>WIREWOUND: RW21V101<br>(81349) |                   | EA          | 1      | *           | *              | *             | *           | *              | *             | 4               | 10              | 5-4         | A3R9                     |
| X2-D       | 5305-984-6198   | A579 SCREW, MACHINE<br>MS35206-250 (96906)              |                   | EA          | 2      |             |                |               |             |                |               |                 |                 |             | A3H2                     |
| X2-D       | 5310-045-3299   | A580 WASHER, LOCK:<br>SAME AS A9                        |                   | EA          | 2      |             |                |               |             |                |               |                 |                 |             | A3H2                     |
| X2-D       | 5310-809-8544   | A581 WASHER, FLAT:<br>SAME AS A10                       |                   | EA          | 2      |             |                |               |             |                |               |                 |                 |             | A3H2                     |
| X2-D       | 5310-934-9757   | A582 NUT, PLAIN, HEXAGON:<br>SAME AS A17                |                   | EA          | 2      |             |                |               |             |                |               |                 |                 |             | A3H2                     |

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| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                                      |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>Ay Ds N<br>Lowan |               |             | (7)<br>AY GS I<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                             | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                | 5961-811-5799                     | A583 SEMICONDUCTOR, DEVICE,<br>DIODE: JAN1N1202 (81350) |                   | EA                        | 3                            | *           | 1                       | 1             | *           | 1                       | 1             | 13                         | 15                             | 5-4         | A3CR1                              |
| X2-D               | 5310-934-9751                     | A584 NUT, PLAIN, HEXAGON:<br>SAME AS A388               |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A3H1                               |
| X2-D               | 5310-576-5752                     | A585 WASHER, LOCK;<br>MS35333-39 (96906)                |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A3H1                               |
| P-F                |                                   | A586 WASHER, INSULATING:<br>MW562-203 (08289)           |                   | EA                        | 1                            | *           | 1                       | 2             | *           | 1                       | 2             | 16                         | 20                             |             | A3H1                               |
| P-F                | 5310-062-0906                     | A587 BUSHING, INSULATING:<br>TW516-10 (08289)           |                   | EA                        | 1                            | *           | *                       | 1             | *           | *                       | 1             | 10                         | 16                             |             | A3H1                               |
| P-F                | 5961-811-5799                     | A588 SEMICONDUCTOR, DEVICE, DIODE: SAME AS A583         |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-4         | A3CR2                              |
| X2-D               | 5310-934-9751                     | A589 NUT, PLAIN, HEXAGON:<br>SAME AS A388               |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A3H1                               |
| X2-D               | 5310-576-5752                     | A590 WASHER, LOCK:<br>SAME AS A585                      |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A3H1                               |
| P-F                |                                   | A591 WASHER, INSULATING:<br>SAME AS A586                |                   | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A3H1                               |
| P-F                | 5310-062-0906                     | A592 BUSHING, INSULATING:<br>SAME AS A587               |                   | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A3H1                               |
| P-F                | 5961-811-5799                     | A593 SEMICONDUCTOR, DEVICE, DIODE: SAME AS A583         |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-4         | A3CR3                              |
| X2-D               | 5310-934-9751                     | A594 NUT, PLAIN, HEXAGON:<br>SAME AS A388               |                   | EA                        | 1                            |             |                         |               |             |                         |               |                            |                                |             | A3H1                               |

| (1)                | (2)                     | SECTION IV. REPAIR PARTS                                |           |                   |                      | •           |                         |        |      |                         |        |                     |                     |             | (40)                     |
|--------------------|-------------------------|---|-----------|-------------------|----------------------|-------------|-------------------------|--------|------|-------------------------|--------|---------------------|---------------------|-------------|--------------------------|
| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK | (3)<br>DESCRIPTION                                      |           | (4)<br>UNIT<br>OF | (5)<br>QTY<br>INC IN |             | (6)<br>AY DS M<br>LOWAN |        |      | (7)<br>AY GS I<br>LOWAN |        | (8)<br>1 YR.<br>ALW | (9)<br>DEPT<br>MAIN | (a)         | (10) ILLUSTRATIONS (b)   |
|                    | NUMBER                  |   | USABLE ON | MEAS              | UNIT                 | (a)         | (b)                     | (c)    | (a)  | (b)                     | (c)    | PER<br>EQUIP        | ALW PER<br>100      | FIG.<br>NO. | ITEM NO. OR<br>REFERENCE |
|                    |                         | REFERENCE NUMBER & MFR CODE                             | CODE      |                   |                      | (a)<br>1-20 | 21-50                   | 51-100 | 1-20 | 21-50                   | 51-100 | CNTGCY              | EQUIP               | 140.        | DESIGNATION              |
| X2-D               | 5310-576-5752           | A595 WASHER, LOCK:<br>SAME AS A585                      |           | EA                | 1                    |             |                         |        |      |                         |        |                     |                     |             | A3H1                     |
| X2-D               | 5310-014-5850           | A596 WASHER, FLAT:<br>MS27183-42 (96906)                |           | EA                | 1                    |             |                         |        |      |                         |        |                     |                     |             | A3H1                     |
| P-F                |                         | A597 WASHER, INSULATING;<br>SAME AS A586                |           | EA                | 1                    | REF         | REF                     | REF    | REF  | REF                     | REF    | REF                 | REF                 |             | A3H1                     |
| P-F                | 5310-062-0906           | A598 BUSHING, INSULATING:<br>SAME A5 A587               |           | EA                | 1                    | REF         | REF                     | REF    | REF  | REF                     | REF    | REF                 | REF                 |             | A3H1                     |
| P-F                | 5961-833-3042           | A599 SEMICONDUCTOR, DEVICE,<br>DIODE: JAN1N1186 (81350) |           | EA                | 2                    | *           | *                       | 1      | *    | *                       | 1      | 10                  | 10                  | 5-4         | A3CR4                    |
| X2-D               | 5310-685-2631           | A600 NUT, PLAIN, HEXAGON:<br>MS25082-4 (96906)          |           | EA                | 1                    |             |                         |        |      |                         |        |                     |                     |             | A3H1                     |
| X2-D               | 5310-209-0786           | A601 WASHER, LOCK:<br>SAME AS A364                      |           | EA                | 1                    |             |                         |        |      |                         |        |                     |                     |             | A3H1                     |
| P-F                |                         | A602 WASHER, INSULATING:<br>MW855-260 (08289)           |           | EA                | 1                    | *           | *                       | 1      | *    | *                       | 1      | 10                  | 10                  |             | A3H1                     |
| P-F                | 5970-977-2714           | A603 BUSHING, INSULATING:<br>TW516-25 (08289)           |           | EA                | 1                    | *           | *                       | *      | *    | *                       | *      | 5                   | 6                   |             | A3H1                     |
| P-F                | 5961-833-3042           | A604 SEMICONDUCTOR, DEVICE, DIODE: SAME AS A599         |           | EA                | REF                  | REF         | REF                     | REF    | REF  | REF                     | REF    | REF                 | REF                 | 5-4         | A3CR5                    |
| X2-D               | 5310-685-2631           | A605 NUT, PLAIN, HEXAGON;<br>SAME AS A600               |           | EA                | 1                    |             |                         |        |      |                         |        |                     |                     |             | A3H1                     |
| X2-H               | 5310-209-0786           | A606 WASHER, LOCK:<br>SAME AS A364                      |           | EA                | 1                    |             |                         |        |      |                         |        |                     |                     |             | A3H1                     |

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                                    |                  | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS N |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|----------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | U:<br>REFERENCE NUMBER & MFR CODE                     | SABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50   | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                |                                   | A607 WASHER, INSULATING:<br>SAME AS A602              |                  | EΑ                        | 1                            | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            |             | A3H1                               |
| P-F                | 5970-977-2714                     | A608 BUSHING, INSULATING:<br>SAME AS A603             |                  | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            |             | A3H1                               |
| P-F                | 5961-950-4399                     | A609 SEMICONDUCTOR, DEVICE DIODE: JAN1N2991RB (81350) |                  | EA                        | 1                            | *           | *                       | *             | *           | *              | *             | 5                          | 5                              | 5-4         | A3CR6                              |
| X2-D               | 5310-934-9751                     | A610 NUT, PLAIN, HEXAGON:<br>SAME AS A388             |                  | EΑ                        | 1                            |             |                         |               |             |                |               |                            |                                |             | H6                                 |
| X2-D               | 5310-576-5752                     | A611 WASHER, LOCK:<br>SAME AS A585                    |                  | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A3H1                               |
| P-F                |                                   | A612 WASHER, INSULATING:<br>SAME AS A586              |                  | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            |             | A3H1                               |
| P-F                | 5310-062-0906                     | A613 BUSHING, INSULATING:<br>SAME AS A587             |                  | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF            | REF           | REF                        | REF                            |             | A3H1                               |
| X2-D               | 5940-283-5280                     | A614 TERMINAL, LUG:<br>MS25036-106 (96906)            |                  | EA                        | 3                            |             |                         |               |             |                |               |                            |                                |             | A3MP5                              |
| X2-D               | 5940-283-5280                     | A615 TERMINAL, LUG:<br>SAME AS A614                   |                  | EA                        | REF                          |             |                         |               |             |                |               |                            |                                |             | A3MP6                              |
| X2-D               | 5940-283-5280                     | A616 TERMINAL, LUG:<br>SAME AS A614                   |                  | EA                        | REF                          |             |                         |               |             |                |               |                            |                                |             | A3MP7                              |
| X2-D               | 5940-230-0515                     | A617 TERMINAL, LUG:<br>MS25036-154 (96906)            |                  | EA                        | 1                            |             |                         |               |             |                |               |                            |                                |             | A3MP8                              |
| X2-D               | 5940-143-4794                     | A618 TERMINAL, LUG:<br>MS25036-112 (96906)            |                  | EΑ                        | 1                            |             |                         |               |             |                |               |                            |                                |             | АЗМР9                              |

TM 11-6130-266-15 SECTION IV. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                             |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>Ay ds N<br>Lowan |               |             | (7)<br>AY GS I<br>LLOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|--------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                    | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50             | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| P-F                |                                   | A619 TERMINAL, LUG:<br>SMB667875 (79963)       |                   | EA                        | 1                            | *           | *                       | *             | *           | *                        | *             | 4                          | 5                              |             | A3MP10                             |
| P-F                |                                   | A620 THERMOSTAT:<br>SMB667873 (18038)          |                   | EA                        | 1                            | *           | *                       | *             | *           | *                        | *             | 4                          | 5                              | 5-4         | A3S1                               |
| X2-D               | 5310-209-0788                     | A621 NUT, PLAIN, HEXAGON:<br>SAME AS A37       |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | A3H1                               |
| X2-D               | 5310-045-4007                     | A622 WASHER, LOCK:<br>SAME AS A13              |                   | EA                        | 1                            |             |                         |               |             |                          |               |                            |                                |             | A3H1                               |
| P-F                | 5961-052-4115                     | A623 TRANSISTOR:<br>JAN2N1490 (81350)          |                   | EA                        | 2                            | *           | *                       | 1             | *           | *                        | 1             | 10                         | 10                             | 5-4         | A3Q1                               |
| X2-D               | 5305-054-6654                     | A624 SCREW, MACHINE;<br>MS51957-30 (96906)     |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | A3H2                               |
| X2-D               | S310-579-0079                     | A625 WASHER, LOCK:<br>MS35333-37 (96906)       |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | A3H2                               |
| P-F                |                                   | A626 INSULATOR:<br>SMB350054 (80063)           |                   | EA                        | 1                            | 1           | 1                       | 2             | 1           | 1                        | 2             | 19                         | 18                             |             | A3H1                               |
| P-F                |                                   | A627 BUSHING, INSULATING:<br>TW145-180 (08289) |                   | EA                        | 2                            | *           | 1                       | 1             | *           | 1                        | 1             | 16                         | 16                             |             | A3H2                               |
| X2-D               | 5310-209-0788                     | A628 NUT, PLAIN, HEXAGON:<br>SAME AS A37       |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | A3H2                               |
| P-F                | 5961-052-4115                     | A629 TRANSISTOR:<br>SAME AS A623               |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                      | REF           | REF                        | REF                            | 5-4         | A3Q4                               |
| X2-D               | 5305-054-6654                     | A630 SCREW, MACHINE:<br>SAME AS A624           |                   | EA                        | 2                            |             |                         |               |             |                          |               |                            |                                |             | A3H2                               |

TM 11-6130-266-15 SECTION IV. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                        |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               |             | (7)<br>AY GS N<br>LOWAN |               | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|---|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------|-------------------------|---------------|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE               | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | EQUIP<br>CNTGCY            | 100<br>EQUIP                   | NO.         | REFERENCE<br>DESIGNATION           |
| X2-D               | 5310-579-0079                     | A631 WASHER, LOCK:<br>SAME AS A625        |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A3H2                               |
| P-F                |                                   | A632 INSULATOR:<br>SAME AS A626           |                   | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A3H1                               |
| P-F                |                                   | A633 BUSHING, INSULATING:<br>SAME AS A627 |                   | EA                        | 2                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A3H2                               |
| X2-D               | 5310-934-9747                     | A634 NUT, PLAIN, HEXAGON:<br>SAME AS A37  |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A3H2                               |
| P-F                | 5961-230-7705                     | A635 TRANSISTOR:<br>SMA667870 (18036)     |                   | EA                        | 2                            | *           | 1                       | 2             | *           | 1                       | 2             | 16                         | 20                             | 5-4         | A3Q5                               |
| X2-D               | 5305-889-3000                     | A636 SCREW, MACHINE:<br>SAME AS A35       |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A3H2                               |
| X2-D               | 5310-579-0079                     | A637 WASHER, LOCK:<br>SAME AS A625:       |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A3H2                               |
| P-F                |                                   | A638 INSULATOR:<br>SAME AS A626           |                   | EA                        | 1                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A3H1                               |
| P-F                |                                   | A639 BUSHING, INSULATING:<br>SAME AS A627 |                   | EA                        | 2                            | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            |             | A3H2                               |
| X2-D               | 5310-934-9747                     | A640 NUT, PLAIN, HEXAGON:<br>SAME AS A37  |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A3H2                               |
| P-F                | 5961-230-7705                     | A641 TRANSISTOR:<br>SAME AS A635          |                   | EA                        | REF                          | REF         | REF                     | REF           | REF         | REF                     | REF           | REF                        | REF                            | 5-4         | A3Q6                               |
| X2-D               | 5305-889-3000                     | A642 SCREW, MACHINE:<br>SAME AS A35       |                   | EA                        | 2                            |             |                         |               |             |                         |               |                            |                                |             | A3H2                               |

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# SECTION IV. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                           |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>AY DS N<br>LOWAN |               | (7)<br>30-DAY GS MAINT<br>ALLOWANCE |              | 30-DAY GS MAINT |                 | 30-DAY GS MAINT |     | 30-DAY GS MAINT          |  | 30-DAY GS MAINT |  | 30-DAY GS MAINT |  | (8)<br>1 YR.<br>ALW<br>PER | (9)<br>DEPT<br>MAIN<br>ALW PER | (a)<br>FIG. | (10) ILLUSTRATIONS (b) ITEM NO. OR |
|--------------------|-----------------------------------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------|---------------|-------------------------------------|--------------|-----------------|-----------------|-----------------|-----|--------------------------|--|-----------------|--|-----------------|--|----------------------------|--------------------------------|-------------|------------------------------------|
|                    |                                   | REFERENCE NUMBER & MFR CODE                  | USABLE ON<br>CODE | WILAG                     | ONIT                         | (a)<br>1-20 | (b)<br>21-50            | (c)<br>51-100 | (a)<br>1-20                         | (b)<br>21-50 | (c)<br>51-100   | EQUIP<br>CNTGCY | 100<br>EQUIP    | NO. | REFERENCE<br>DESIGNATION |  |                 |  |                 |  |                            |                                |             |                                    |
| X2-D               | 5310-579-0079                     | A643 WASHER, LOCK:<br>SAME AS A625           |                   | EA                        | 2                            |             |                         |               |                                     |              |                 |                 |                 |     | A3H2                     |  |                 |  |                 |  |                            |                                |             |                                    |
| P-F                |                                   | A644 INSULATOR;<br>SAME AS A626              |                   | EA                        | 1                            | REF         | REF                     | REF           | REF                                 | REF          | REF             | REF             | REF             |     | A3H1                     |  |                 |  |                 |  |                            |                                |             |                                    |
| P-F                |                                   | A645 BUSHING, INSULATING:<br>SAME AS A627    |                   | EA                        | 2                            | REF         | REF                     | REF           | REF                                 | REF          | REF             | REF             | REF             |     | A3H2                     |  |                 |  |                 |  |                            |                                |             |                                    |
| X2-D               | 5310-934-9747                     | A646 NUT, PLAIN, HEXAGON:<br>SAME AS A37     |                   | EA                        | 2                            |             |                         |               |                                     |              |                 |                 |                 |     | A3H2                     |  |                 |  |                 |  |                            |                                |             |                                    |
| P-F                |                                   | A647 TRANSISTOR:<br>SAME AS A635             |                   | EA                        | 2                            | REF         | REF                     | REF           | REF                                 | REF          | REF             | REF             | REF             | 5-4 | A302                     |  |                 |  |                 |  |                            |                                |             |                                    |
| X2-D               | 5305-889-3001                     | A648 SCREW, MACHINE:<br>M535206-231 (96906)  |                   | EA                        | 2                            |             |                         |               |                                     |              |                 |                 |                 |     | A3H2                     |  |                 |  |                 |  |                            |                                |             |                                    |
| X2-D               | 5310-579-0079                     | A649 WASHER, LOCK:<br>SAME AS A625           |                   | EA                        | 2                            |             |                         |               |                                     |              |                 |                 |                 |     | A3H2                     |  |                 |  |                 |  |                            |                                |             |                                    |
| P-F                |                                   | A650 INSULATOR:<br>SAME AS A626              |                   | EA                        | 1                            | REF         | REF                     | REF           | REF                                 | REF          | REF             | REF             | REF             |     | A3H1                     |  |                 |  |                 |  |                            |                                |             |                                    |
| M-D                |                                   | A651 BUSHING, SHOULDER:<br>SMB350043 (80063) |                   | EA                        | 2                            |             |                         |               |                                     |              |                 |                 |                 |     | A3H2                     |  |                 |  |                 |  |                            |                                |             |                                    |
| X2-D               | 5310-934-9747                     | A652 NUT, PLAIN, HEXAGON:<br>SAME AS A37     |                   | EA                        | 2                            |             |                         |               |                                     |              |                 |                 |                 |     | A3H2                     |  |                 |  |                 |  |                            |                                |             |                                    |
| P-F                | 5961-230-7705                     | A653 TRANSISTOR:<br>SAME AS A635             |                   | EA                        | REF                          | REF         | REF                     | REF           | REF                                 | REF          | REF             | REF             | REF             | 5-4 | A303                     |  |                 |  |                 |  |                            |                                |             |                                    |
| X2-D               | 5305-889-3001                     | A654 SCREW, MACHINE:<br>SAME AS A648         |                   | EA                        | 2                            |             |                         |               |                                     |              |                 |                 |                 |     | A3H2                     |  |                 |  |                 |  |                            |                                |             |                                    |

# SECTION IV. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION                       |                   | (4)<br>UNIT<br>OF<br>MEAS | (5)<br>QTY<br>INC IN<br>UNIT |             | (6)<br>30-DAY DS MAINT<br>ALLOWANCE |               | (7)<br>30-DAY GS MAINT<br>ALLOWANCE |              |               |                 | ALLOWANCE    |     |                          |  | YR. DEPT<br>_W MAIN | (10) ILLUSTRATIONS (a) (b) FIG. ITEM NO. OR |  |
|--------------------|-----------------------------------|--|-------------------|---------------------------|------------------------------|-------------|-------------------------------------|---------------|-------------------------------------|--------------|---------------|-----------------|--------------|-----|--------------------------|--|---------------------|---|--|
|                    |                                   | REFERENCE NUMBER & MFR CODE              | USABLE ON<br>CODE |                           |                              | (a)<br>1-20 | (b)<br>21-50                        | (c)<br>51-100 | (a)<br>1-20                         | (b)<br>21-50 | (c)<br>51-100 | EQUIP<br>CNTGCY | 100<br>EQUIP | NO. | REFERENCE<br>DESIGNATION |  |                     |   |  |
| X2-D               | 5310-579-0079                     | A655 WASHER, LOCK:<br>SAME AS A625       |                   | EA                        | 2                            |             |                                     |               |                                     |              |               |                 |              |     | A3H2                     |  |                     |   |  |
| P-F                |                                   | A656 INSULATOR:                          |                   | EA                        | 1                            | REF         | REF                                 | REF           | REF                                 | REF          | REF           | REF             | REF          |     | A3H1                     |  |                     |   |  |
|                    |                                   | SAME AS A626                             |                   |                           |                              |             |                                     |               |                                     |              |               |                 |              |     |                          |  |                     |   |  |
| P-F                |                                   | A657 BUSHING, SHOULDER:<br>SAME AS A651  |                   | EA                        | 2                            | REF         | REF                                 | REF           | REF                                 | REF          | REF           | REF             | REF          |     | A3H2                     |  |                     |   |  |
| X2-D               | 5310-93-9-977                     | A658 NUT, PLAIN, HEXAGON:<br>SAME AS A37 |                   | EA                        | 2                            |             |                                     |               |                                     |              |               |                 |              |     | A3H2                     |  |                     |   |  |
| X2-D               | 5310-809-8544                     | A659 WASHER, FLAT;<br>SAME AS A10        |                   | EA                        | 2                            |             |                                     |               |                                     |              |               |                 |              |     | H2                       |  |                     |   |  |
| X2-D               | 5310-905-5454                     | A660 WASHER, LOCK:<br>SAME AS A530       |                   | EA                        | 1                            |             |                                     |               |                                     |              |               |                 |              |     | Н1                       |  |                     |   |  |
| X2-D               | 5310-045-3299                     | A661 WASHER, LOCK:<br>SAME AS A9         |                   | EA                        | 2                            |             |                                     |               |                                     |              |               |                 |              |     | H2                       |  |                     |   |  |
| X2-D               | 5310-045-3296                     | A662 WASHER, LOCK;<br>SAME AS A32        |                   | EA                        | 6                            |             |                                     |               |                                     |              |               |                 |              |     | H6                       |  |                     |   |  |
|                    |                                   |  |                   |                           |                              |             |                                     |               |                                     |              |               |                 |              |     |                          |  |                     |   |  |
|                    |                                   |  |                   |                           |                              |             |                                     |               |                                     |              |               |                 |              |     |                          |  |                     |   |  |
|                    |                                   |  |                   |                           |                              |             |                                     |               |                                     |              |               |                 |              |     |                          |  |                     |   |  |
|                    |                                   |  |                   |                           |                              |             |                                     |               |                                     |              |               |                 |              |     |                          |  |                     |   |  |

# SECTION IV. SPECIAL TOOLS, TEST & SUPPORT EQUIPMENT FOR DIRECT SUPPORT, GENERAL SUPPORT & DEPOT MAINTENANCE

|                    |                                   |   |                   | WAIN   |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|--------------------|-----------------------------------|---|-------------------|--------|------|-------------------------|--------|------|-----------------------|--------|------------------------|-----------------------|--------------------|---------------------------------|
| (1)<br>SMR<br>CODE | (2)<br>FEDERAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION  | (4)<br>UNIT<br>OF | INC IN |      | (6)<br>AY DS N<br>LOWAN |        |      | (7)<br>AY GS<br>LOWAI |        | (8)<br>1-YR<br>ALW     | (9)<br>DEPOT<br>MAINT |                    | (10)<br>USTRATIONS              |
|                    | NUMBER                            | USABLE ON   | MEAS              | UNIT   | (a)  | (b)                     | (c)    | (a)  | (b)                   | (c)    | PER<br>EQUIP<br>CNTGCY |                       | (a)<br>FIG.<br>NO. | (b)<br>ITEM NO. OR<br>REFERENCE |
|                    |                                   | REFERENCE NUMBER & MFR/ CODE CODE                               |                   |        | 1-20 | 21-50                   | 51-100 | 1-20 | 21-50                 | 51-100 |                        | EQUIP                 |                    | DESIGNATION                     |
| P-F                | 51205293101                       | A663 Screwdriver, Cross Tip Size 1,<br>Blade Length 8". (81348) | EA                | 1      | *    | *                       | *      | *    | *                     | *      | *                      | *                     |                    |                                 |
| P-F                | 51205454268                       | A664 Retrieving Tool Magnetic<br>Type II, Class I. (81348)      | EA                | 1      | *    | *                       | *      | *    | *                     | *      | *                      | *                     |                    |                                 |
| P-F                | 51208326221                       | A665 Screw Starter, Hand<br>P/N 5N9. (36540)                    | EA                | 1      | *    | *                       | *      | *    | *                     | *      | *                      | *                     |                    |                                 |
| P-F                | 59359213398                       | A666 Connector, Plug, Electrical<br>Type No. MW10MA17 (81349)   | EA                | 2      | *    | *                       | *      | *    | *                     | *      | *                      | *                     | 6-2                |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |
|                    |                                   |   |                   |        |      |                         |        |      |                       |        |                        |                       |                    |                                 |

# SECTION V.1. INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION

| FEDERAL       | FIGURE | ITEM NUMBER OR   |
|---------------|--------|------------------|
| STOCK         | NUMBER | REF. DESIGNATION |
| NUMBER        |        |                  |
|               |        |                  |
| 5305-052-8874 |        | H4               |
| 5305-054-6654 |        | A3H2             |
| 5305-054-6656 |        | H3               |
| 5305-637-1124 |        | A6H2             |
| 5305-889-3000 |        | H1               |
| 5305-889-3000 |        | A3H2             |
| 5305-889-3000 |        | A8H1             |
| 5305-889-3000 |        | A8H3             |
| 5305-889-3001 |        | A3H2             |
| 5305-922-6286 |        | H2               |
| 5305-983-6659 |        | H4               |
| 5305-983-6730 |        | A4H2             |
| 5305-984-4976 |        | A11H2            |
| 5305-984-4983 |        | H2               |
| 5305-984-4983 |        | H3               |
| 5305-984-4983 |        | H4               |
| 5305-984-4988 |        | H1               |
| 5305-984-4988 |        | A3H1             |
| 5305-984-4698 |        | A4H1             |
| 5305-984-4988 |        | A4H2             |
| 5305-984-6191 |        | H1               |
| 5305-984-6191 |        | H2               |
| 5305-984-6193 |        | H2               |
| 5305-984-6193 |        | H4               |
| 5305-984-6193 |        | H8               |
| 5305-984-6198 |        | A3H2             |
| 5305-984-6209 |        | H2               |
| 5305-984-6209 |        | H4               |
| 5305-984-6209 |        | H6               |
| 5305-984-6210 |        | H3               |
| 5305-984-6210 |        | H4               |
| 5305-985-3674 |        | A9H16            |
| 5305-989-6265 |        | A8H4             |
| 5305-993-2738 |        | A4H1             |
| 5305-993-9269 |        | H2               |
| 5310-014-5850 |        | A3H1             |
| 5310-043-0520 |        | A3111<br>A4H1    |
| 5310-045-3296 |        | H2               |
| 5310-045-3296 |        | H4               |
| 5310-045-3296 |        | H6               |
| 5310-045-3296 |        | H7               |
| 5310-045-3296 |        | A8H4             |
| 5310-045-3299 |        | H1               |
| 5310-045-3299 |        | H2               |
| 5310-045-3299 |        | H4               |
| 5310-045-3299 |        | H8               |
| 5310-045-3299 |        | A3H2             |
| 5310-045-3299 |        | H1               |
| 5310-045-4007 |        | H1<br>H2         |
| 5310-045-4007 |        | H3               |
|               |        | H3<br>  H4       |
| 5310-045-4007 |        | Π4               |

| FEDERAL                        | FIGURE | ITEM NUMBER OR   |
|--------------------------------|--------|------------------|
| STOCK                          | NUMBER | REF. DESIGNATION |
| NUMBER                         |        |                  |
| 5310-045-4007                  |        | A3H1             |
| 5310-045-4007                  |        | A3H2             |
| 5310-045-4007                  |        | A4H2             |
| 5310-045-4007                  |        | A4H4             |
| 5310-045-4007                  |        | A8H3             |
| 5310-062-0906                  |        | A3H1             |
| 5310-082-1404                  |        | A8H3             |
| 5310-113-3757                  |        | A4H1             |
| 5310-167-0721                  |        | A7H1             |
| 5310-194-1483                  |        | A4H1             |
| 5310-209-0786                  |        | A3H1             |
| 5310-209-0786                  |        | A4H1             |
| 5310-209-0786                  |        | A6H2             |
| 5310-209-0788                  |        | H1               |
| 5310-209-0788                  |        | A3H1             |
| 5310-209-0788                  |        | A3H2             |
| 5310-209-0788                  |        | A4H1             |
| 5310-209-0788                  |        | A8H1             |
| 5310-531-9514                  |        | A9H16            |
| 5310-543-2410                  |        | A1H2             |
| 5310-543-2410                  |        | A2HA             |
| 5310-543-2410                  |        | A4H2             |
| 5310-543-2410                  |        | A4A2H2           |
| 5310-543-2410                  |        | A5H2             |
| 5310-543-2410                  |        | A11H2            |
| 5310-576-0546                  |        | A6H2             |
| 5310-576-5752                  |        | A3H1             |
| 5310-577-5506                  |        | H2               |
| 5310-579-0079                  |        | A3H2             |
| 5310-582-5965                  |        | H3               |
| 5310-582-5965                  |        | H4               |
| 5310-595-7237                  |        | H1               |
| 5310-596-7693                  |        | H2               |
| 5310-616-2973                  |        | H1               |
| 5310-685-2631                  |        | A3H1             |
| 5310-687-6398                  |        | A7H1             |
| 5310-809-4058                  |        | H3               |
| 5310-809-4058                  |        | H4               |
| 5310-809-5998                  |        | A4H1<br>H1       |
| 5310-809-8544                  |        | H1<br>H2         |
| 5310-809-8544                  |        |                  |
| 5310-809-8544<br>5310-905-5454 |        | A3H2<br>H1       |
| 5310-905-5454                  |        | H2               |
| 5310-904-5968                  |        |                  |
| 5310-904-5966                  |        | H3               |
| 5310-934-9739                  |        | A1H2             |
| 5310-934-9739                  |        | A1112<br>A2H2    |
| 5310-934-9739                  |        | A4H2             |
| 5310-934-9739                  |        | A4A2H2           |
| 5310-934-9739                  |        | A5H3             |
| 0010-004-0100                  |        | AUTO             |

# SECTION V.1. INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION

| FEDERAL<br>STOCK               | FIGURE<br>NUMBER | ITEM NUMBER OR<br>REF. DESIGNATION |
|--------------------------------|------------------|------------------------------------|
| NUMBER                         |                  |                                    |
| 5310-934-9739                  |                  | A11H2                              |
| 5310-934-9747                  |                  | H1                                 |
| 5310-934-9747                  |                  | A3H2                               |
| 5310-934-9747                  |                  | A4H1                               |
| 5310-934-9747                  |                  | A4H2                               |
| 5310-934-9747                  | İ                | A4H4                               |
| 5310-934-9747                  |                  | A6H4                               |
| 5310-934-9747                  |                  | A8H1                               |
| 5310-934-9751                  |                  | I H6                               |
| 5310-934-9751                  |                  | A3H1                               |
| 5310-934-9757                  |                  | H2                                 |
| 5310-934-9757                  |                  | I A3H2                             |
| 5310-983-8483                  |                  | H1                                 |
| 5310-983-8483                  |                  | H2                                 |
| 5310-983-8483                  |                  | H3                                 |
| 5310-983-6483                  |                  | A4H2                               |
| 5310-997-1888                  |                  | H2                                 |
| 5320-117-6815                  |                  | A8A1A1H2                           |
| 5330-574-6704                  |                  | H1                                 |
| 5340-951-1532                  |                  | A8A1A1MP2                          |
| 5905-061-2089                  | 5-3              | A2R17                              |
| 5905-061-2089                  | 5-7              | A6A1R4                             |
| 5905-061-5355                  | 5-7              | A6A1R3                             |
| 5905-067-9079                  | 5-3              | A2R10                              |
| 5905-067-9079                  | 5-3              | A2R15                              |
| 5905-067-9079                  | 5-6              | A5R9                               |
| 5905-080-5016                  | 5-2              | A1R20                              |
| 5905-087-0545                  | 5-7              | A6A1R5                             |
| 5905-230-7713                  | 5-7              | A6A1R2                             |
| 5905-686-3379                  | 5-3              | A2R21                              |
| 5905-717-3339                  | 5-2              | A1R19                              |
| 5950-717-3342                  | 5-2              | A1R4                               |
| 5905-717-3342                  | 5-2              | A1R4                               |
| 5905-717-3342                  | 5-2              | A1R13                              |
| 5905-717-3342                  | 5-6              | A5R7                               |
| 5905-752-3597                  | 5-3<br>5-3       | A2R22<br>A2R13                     |
| 5905-755-8132                  |                  |                                    |
| 5905-762-3667<br>5905-765-5628 | 5-2              | A1R7                               |
| 5905-766-8216                  | 5-3<br>5-5       | A2R3<br>A4A2R5                     |
|                                | 5-5              | A4A2R5<br>A4A2R6                   |
| 5905-766-8216<br>5905-766-8366 | 5-5              | I A4A2R6<br>I A1R22                |
| 5905-767-2444                  | 5-2              | A1R22<br>A5R6                      |
| 5905-767-2444                  | 5-6              | A1R16                              |
| 5905-767-2842                  | 5-6              | A ATRIO                            |
| 5905-767-3229                  | 5-2              | A1R17                              |
| 5905-767-3229                  | 5-2              | A1R18                              |
| 5905-767-3229                  | 5-3              | A2R6                               |
| 5905-767-3229                  | 5-6              | A5R3                               |
| 5905-767-3229                  | 5-6              | A5R10                              |
| 5905-767-3230                  | 5-2              | A1R15                              |
| 5905-767-3230                  | 5-6              | A5R1                               |
| 5905-767-3230                  | 5-6              | A5R12                              |
| 5905-767-7583                  | 5-2              | A1R10                              |
| 1000 . 0 000                   |                  |                                    |
|                                | 1                | l l                                |

| FEDERAL<br>STOCK<br>NUMBER                                       | FIGURE<br>NUMBER   | ITEM NUMBER OR<br>REF. DESIGNATION  |
|--|--|---|
|  | NUMBER 5-2-2-5-5-3-3-6-6-6-8-2-3-2-2-3-3-2-2-2-3-3-2-2-2-3-3-2-2-3-3-2-2-3-3-2-2-3-3-2-2-3-3-2-2-3-3-2-2-3-3-2-2-3-3-3-6-6-6-8-2-3-2-2-3-3-2-2-3-3-2-2-3-3-3-6-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5 | REF. DESIGNATION  A1R21 A1R23 A1R11 A2R7 A2R9 A2R18 A5R2 A5R8 A5R13 R3 A1R6 A2R16 A1R3 A2R11 A1R2 A1R5 A2R14 A1R9 A1R1 A1R1 A1R1 A1R14 A2R4 A2R5 A3A1R1 A3A1R5 A4A2R1 A4A2R2 A4A2R8 A1R12 A2R8 A2R19 A2R10 A3R9 A2R10 A3R9 A2R12 A3A1R4 A1C1 A6A1C1 A6A1C1 A1C3 A4A2C3 A4A2C3 A4A2C4 A2C7 AA1C2 A2C2 A2C2 A2C4 A2C5 A5C2 A2C1 |
| 5910-904-3983<br>5910-904-3983<br>5910-988-4415<br>5930-655-4245 | 5-5<br>  5-5<br>  5-3<br>  5-8   | A4A2C1<br>A4A2C2<br>A2C3<br>S2  |

# SECTION V.1. INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION

| FEDERAL<br>STOCK   | FIGURE<br>NUMBER  | ITEM NUMBER OR<br>REF. DESIGNATION                          |
|--|---|---|
| NUMBER   |   |   |
|  |   |   |
| 5961-087-6047<br>5961-087-6047   | 5-2<br>5-2  | A1CR8<br>A1CR9  |
| 5961-087-6047<br>5961-087-6047<br>5961-087-6047<br>5961-104-8378<br>5961-230-7705<br>5961-230-7705<br>5961-230-7705<br>5961-230-7705<br>5961-811-5799<br>5961-811-5799 | 5-6<br>5-6<br>5-6<br>5-3<br>5-4<br>5-4<br>5-4<br>5-4<br>5-4 | A5CR1 A5CR2 A5CR4 A2Q3 A3Q2 A3Q2 A3Q3 A3Q5 A3Q6 A3CR1 A3CR2 |

| FEDERAL<br>STOCK<br>NUMBER  | FIGURE<br>NUMBER   | ITEM NUMBER OR<br>REF. DESIGNATION  |
|---|--|---|
| 5961-811-5799 5961-833-3042 5961-833-3042 5961-833-3042 5961-833-3042 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-2601 5961-853-5001 5961-853-5001 5961-853-5001 5961-853-5001 5961-853-5001 5961-853-5001 5961-853-5001 5961-853-5001 5961-853-5001 5961-957-6855 | 5-4<br>5-4<br>5-6<br>5-2<br>5-2<br>5-2<br>5-2<br>5-2<br>5-3<br>5-5<br>5-6<br>5-6<br>5-6<br>5-6<br>5-6<br>5-2<br>5-2<br>5-2<br>5-2<br>5-2<br>5-3<br>5-4<br>5-2<br>5-2<br>5-2<br>5-2<br>5-3<br>5-3<br>5-3<br>5-3<br>5-3<br>5-5<br>5-5<br>5-6<br>5-6<br>5-6<br>5-6<br>5-6<br>5-2<br>5-2<br>5-2<br>5-2<br>5-2<br>5-2<br>5-2<br>5-2 | A3CR3 A3CR4 A3CR5 A5CR3 A1Q1 A1Q2 A1Q5 A1Q6 A1Q7 A1Q9 A2Q1 A2Q4 A4A2Q1 A4A2Q2 A5Q1 A5Q2 A5Q3 A1Q3 A1Q3 A1Q4 A1Q8 A2Q2 A3CR6 A1CR1 A1CR2 A1CR3 A1CR4 A2CR6 A3H1 W2 MP15 XDS1 XDS2 XDS3 A5MP2 DS1 DS2 DS3 A1MP2 A2MP2 |
|   |  |   |

# SECTION V.2 INDEX-REFERENCE NUMBER CROSS REFERENCE TO FIGURE NUMBER AND REFERENCE DESIGNATION OR ITEM NUMBER

| REFERENCE<br>NO.                  | MFGRS.<br>CODE     | FIG.<br>NO. | REF DESIGNATION<br>OR ITEM NO |
|-----------------------------------|--------------------|-------------|-------------------------------|
|                                   |                    |             |                               |
| AN508-6-4                         | 88044              |             | A6A1H2                        |
| B8152                             | 18038              |             | A8MP1                         |
| CH08A1NC126J<br>CH08A1RA475M      | 81349<br>81349     | 5-1<br>5-6  | A8C1<br>A5C1                  |
| CP13A3KB105K1                     | 81349              | 5-0         | A7C1                          |
| CX-11979/U                        | 81349              | 3-1         | I W1                          |
| C8107                             | 18038              | 5-5         | A4A2                          |
| C8108                             | 18038              |             | A7                            |
| C8150                             | 1 18038            | i i i       | A4A3                          |
| C8157                             | 18038              |             | A6MP1                         |
| C8169                             | 18038              |             | A7MP1                         |
| C8263                             | 18038              |             | MP1                           |
| D8117                             | 18038              |             | A8                            |
| D8162                             | 18038              | 5-1         | A8A1                          |
| D8219                             | 18038              |             | A11                           |
| JAN1N9378                         | 81350              | 5-2         | A1CR5                         |
| LC36RD2                           | 81349              |             | MP16                          |
| LC36YD2                           | 81349              |             | MP15                          |
| MILC1097-4-01                     | 81349              |             | A11J1                         |
| MILC21097-5-01<br>MILR5757-29A008 | l 81349<br>l 81349 | 5-2         | A1P1<br>  A1K1                |
| MILT55155-21-3                    | 81349              | 5-2         | A8E1                          |
| M515795-607                       | 96906              |             | A6H2                          |
| MS21919-WG-11                     | 96906              | i i i       | MP11                          |
| MS21919-4                         | 96906              |             | MP6                           |
| MS21919-5                         | 96906              |             | MP9                           |
| MS3212-25                         | l 96906            | i i i       | H2                            |
| MS3212-52                         | 96906              |             | H3                            |
| MS3212-53                         | 96906              |             | H3                            |
| MS35206-323                       | 96906              |             | A1H2                          |
| MS35303-7                         | 96906              |             | H3                            |
| MS35691-431                       | 96906              |             | A6H4                          |
| MW1375-526                        | 08289              |             | A4H1                          |
| MW20MMA00                         | 81349              |             | J8                            |
| MW562-203<br>MW855-260            | l 08289<br>l 08289 |             | A3H1<br>  A3H1                |
| PT07C14-16S                       | 77820              |             | J6                            |
| PT07C14-103                       | 77820              |             | J3                            |
| RL20S122J                         | 81349              | 5-3         | 33<br>  A2R2                  |
| RL20S223J                         | 81349              | 5-3         | A2R1                          |
| RW21V1R0                          | 81349              | 5-4         | A3R8                          |
| RW69VR50                          | l 81349            | 5-4         | A3A1R2                        |
| SMB169134                         | 80063              |             | A8A1A1MP3                     |
| SMB350043                         | 80063              |             | A3H2                          |
| SMB350054                         | 80063              |             | A3H1                          |
| SMB450392                         | 80063              |             | A8MP2                         |
| SMB450423                         | 80063              |             | MP4                           |
| SMB667875                         | 79963              |             | A3MP10                        |
| SMB667875                         | 79963              |             | A3MP10                        |
| SMB667884                         | 18038              |             | A4MP3                         |
|                                   |                    |             |                               |

| REFERENCE<br>NO.       | MFGRS<br>CODE    | FIG.<br>NO. | REF. DESIGNATION OR ITEM NO. |
|------------------------|------------------|-------------|------------------------------|
| SMB667887              | 18038            |             | A4MP1                        |
| SMB667898              | 18038            | 5-7         | A6K1                         |
| SMB667902              | 1 18038          | 3-7         | A6A1E6                       |
| SMB667928              | 18038            |             | MP23                         |
| SMB667940              | 18038            |             | A9MP5                        |
| SMB667942-1            | 1 18038          | i i i       | MP17                         |
| SMB667942-2            | 18038            |             | MP18                         |
| SMB667945              | 18038            |             | MP12                         |
| SMB667947              | 18038            | i i i       | MP21                         |
| SMB667948              | 18038            |             | MP22                         |
| SMB667949              | 18038            |             | A10                          |
| SMB667955              | 18038            |             | MP5                          |
| SMC667850              | 18038            | 5-2         | A1                           |
| SMC667858              | 18038            | 5-3         | A2                           |
| SMC667863              | 18038            | 5-6         | A5                           |
| SMC667868              | 18038            |             | A3MP1                        |
| SMC667874              | 18038            |             | A3MP2                        |
| SMC667877              | 18038            | 5-4         | A3AMP1                       |
| SMC667897              | 18038            | 5-7         | A6R1                         |
| SMC667918              | 18038            | 5-8         | CB1                          |
| SMC667919              | 18038            | 5-8         | CB2                          |
| SMC667920              | 18038            | 5-8         | M1                           |
| SMC667922              | 18038<br>  18038 |             | MP20<br>FL1                  |
| SMC667925<br>SMC667946 | 18038            |             | MP19                         |
| SMD667852              | 18038            |             | A1MP1                        |
| SMD667860              | 1 18038          | 1 1         | I AIMP1                      |
| SMD667862              | 18038            |             | A2A1                         |
| SMD667865              | 18038            |             | A5MP1                        |
| SMD667867              | I 18038          | 5-1         | A3                           |
| SMD667876              | 18038            |             | A3A1                         |
| SMD667881              | 18038            | 5-5         | A4                           |
| SMD667883              | 18038            |             | A4A1                         |
| SMD667891              | 18038            |             | A4A2MP3                      |
| SMD667894              | 18038            | 5-7         | A6                           |
| SMD667899              | 18038            | 5-7         | A6A1                         |
| SMD667900              | 18038            |             | A6A1MP1                      |
| SMD667923              | 18038            | 5-1         | <u>[1</u>                    |
| SMD667924<br>SMD667930 | 18038<br>18038   | 5-1         | L1<br>A9                     |
| SMD667931              | 18038            |             | A9MP1                        |
| SMD667932              | 1 18038          | 1 1         | I A9MP2                      |
| SMD667933              | 18038            |             | A9MP3                        |
| SMD667934              | 18038            |             | A9MP4                        |
| SMD667936              | 18038            | j j j       | I MP13                       |
| TW145-180              | 08289            |             | A3H2                         |
| TW510-570              | 08289            |             | A4H1                         |
| 1-8 NPTF               | 70318            |             | MP26                         |
| 10-101960-14-3         | 07601            |             | MP3                          |
| 1115B                  | 75247            |             | A1MP12                       |
| 12Z72015               | 18038            |             | MP26                         |

# SECTION V.2 INDEX-REFERENCE NUMBER CROSS REFERENCE TO FIGURE NUMBER AND REFERENCE DESIGNATION OR ITEM NUMBER

| REFERENCE<br>NO.  | MFGRS.<br>CODE  | FIG.<br>NO.       | REF. DESIGNATION OR ITEM NO.              |
|---|---|-------------------|---|
| 1798-2<br>20000-50-8AMPS  | 71279<br>99392  | 5-1               | A3A1E3<br>A8C2                            |
| 3600-50-3AMPS 3600-50-1AMP 4079-105-19 71000-6-8AMPS 7717-5DAP 8186 9531BB0632-12 9573BB1032-14 9574BB1032-14 | 99392<br>71279<br>99392<br>75247<br>18038<br>06540<br>06540 | 5-1<br>5-1<br>5-1 | C8 A7E1 C9 A1MP3 MP2 A4A2E1 A6A1E7 A3A1E7 |
|   |   |                   |   |
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| REFERENCE | MFGRS. | FIG. | REF. DESIGNATION |
|-----------|--------|------|------------------|
| NO.       | CODE   | NO.  | OR ITEM NO.      |
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| REFERENCE<br>DESIGNATION | PAGE<br>NUMBER | REFERENCE DESIGNATION | PAGE<br>NUMBER | REFERENCE DESIGNATION | PAGE<br>NUMBER |
|--------------------------|----------------|-----------------------|----------------|-----------------------|----------------|
| C8                       | C-15           | H2                    | C-45           | M1                    | C-34           |
| C9                       | C-15           | H2                    | C-46           | MP1                   | C-7            |
| CB1                      | C-17           | H2                    | C-56           | MP2                   | C-7            |
| CB2                      | C-17           | H3                    | C-7            | MP3                   | C-7            |
| DS1                      | C-6            | H3                    | C-18           | MP4                   | C-18           |
| DS1                      | C-33           | H3                    | C-34           | MP5                   | C-18           |
| DS2                      | C-6            | H3                    | C-36           | MP6                   | C-18           |
| DS2                      | C-33           | H3                    | C-46           | MP7                   | C-18           |
| DS3                      | C-6            | H4                    | C-16           | MP8                   | C-19           |
| DS3                      | C-34           | H4                    | C-17           | MP9                   | C-19           |
| FL1                      | C-33           | H4                    | C-33           | MP11                  | C-32           |
| H1                       | C-7            | H4                    | C-35           | MP12                  | C-33           |
| H1                       | C-8            | H4                    | C-36           | MP13                  | C-33           |
| H1                       | C-15           | H4                    | C-39           | MP14                  | C-6            |
| H1                       | C-16           | H4                    | C-47           | MP14                  | C-34           |
| H1                       | C-18           | H6                    | C-34           | MP15                  | C-6            |
| H1                       | C-19           | H6                    | C-45           | MP15                  | C-34           |
| H1                       | C-32           | H6                    | C-52           | MP16                  | C-6            |
| H1                       | C-45           | H6                    | C-56           | MP16                  | C-34           |
| H1                       | C-46           | H7                    | C-36           | MP17                  | C-35           |
| H1                       | C-56           | H8                    | C-9            | MP18                  | C-35           |
| H2                       | C-8            | J3                    | C-32           | MP19                  | C-35           |
| H2                       | C-15           | J6                    | C-32           | MP20                  | C-35           |
| H2                       | C-18           | J7                    | C-33           | MP21                  | C-35           |
| H2                       | C-33           | J8                    | C-33           | MP22                  | C-35           |
| H2                       | C-35           | L1                    | C-17           | MP23                  | C-35           |

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| REFERENCE<br>DESIGNATION | PAGE<br>NUMBER | REFERENCE<br>DESIGNATION | PAGE<br>NUMBER | REFERENCE DESIGNATION | PAGE<br>NUMBER |
|--------------------------|----------------|--------------------------|----------------|-----------------------|----------------|
| MP26                     | C-36           | A1CR10                   | C-23           | A1Q9                  | C-24           |
| MP26                     | C-45           | A1CR11                   | C-23           | A1R1                  | C-21           |
| R3                       | C-44           | A1H2                     | C-20           | A1R3                  | C-21           |
| S1                       | C-45           | A1K1                     | C-21           | A1R4                  | C-21           |
|                          |                |                          |                | A1R5                  | C-21           |
| S1                       | C-46           | A1K2                     | C-21           | A1R6                  | C-21           |
| S2                       | C-45           | A1MP1                    | C-21           | A1R7                  | C-22           |
| T1                       | C-46           | A1P2                     | C-20           | A1R9                  | C-23           |
| W1                       | C-6            | A1MP3                    | C-20           | A1R10                 | C-22           |
| W1                       | C-36           | A1MP4                    | C-20           | A1R11                 | C-22           |
| W2                       | C-6            | A1MP5                    | C-20           | A1R12                 | C-22           |
| W2                       | C-36           | A1MP6                    | C-20           | A1R13                 | C-21           |
| XDS1                     | C-34           | A1MP7                    | C-20           | A1R14                 | C-22           |
| XDS2                     | C-34           | A1MP8                    | C-21           | A1R15                 | C-22           |
| XDS3                     | C-34           | A1MP9                    | C-21           | A1R16                 | C-22           |
| A1                       | C-19           | A1MP10                   | C-21           | A1R17                 | C-22           |
| A1C1                     | C-19           | A1MP11                   | C-21           | A1R18                 | C-22           |
| A1C2                     | C-20           | İ                        |                | A1R19                 | C-22           |
| A1C3                     | C-20           | A1MP12                   | C-20           | A1R21                 | C-22           |
| A1CR1                    | C-23           | A1P1                     | C-20           | A1R22                 | C-23           |
| A1CR11                   | C-24           | A1Q1                     | C-24           | A1R23                 | C-23           |
| A1CR10                   | C-24           | A1Q2                     | C-24           | A1TP1                 | C-24           |
| A1CR2                    | C-23           | A1Q3                     | C-24           | A1TP2                 | C-24           |
| A1CR3                    | C-23           | A1Q4                     | C-24           | A2                    | C-25           |
| A1CR4                    | C-23           | A1Q5                     | C-24           | A2C1                  | C-25           |
| A1CR5                    | C-23           | A1Q6                     | C-24           | A2C2                  | C-25           |
| A1CR7                    | C-23           | A1Q7                     | C-24           | A2C3                  | C-25           |
| A1CR8                    | C-23           |                          |                |                       |                |
| A1CR9                    | C-23           | A1Q8                     | C-25           | A2C4                  | C-25           |

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| REFERENCE<br>DESIGNATION | PAGE<br>NUMBER | REFERENCE<br>DESIGNATION | PAGE<br>NUMBER | REFERENCE<br>DESIGNATION | PAGE<br>NUMBER |
|--------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
| A2C5                     | C-25           | A2R9                     | C-27           | A3H1                     | C-51           |
| A2C7                     | C-25           | A2R10                    | C-28           | A3H1                     | C-52           |
| A2CR1                    | C-28           | A2R11                    | C-27           | A3H1                     | C-53           |
| A2CR2                    | C-28           | A2R12                    | C-27           | A3H1                     | C-54           |
| A2CR3                    | C-28           | A2R13                    | C-27           | A3H1                     | C-55           |
| A2CR4                    | C-28           | A2R14                    | C-27           | A3H1                     | C-56           |
| A2CR6                    | C-28           | A2R15                    | C-28           | A3H2                     | C-47           |
| A2CR7                    | C-28           | A2R16                    | C-27           | A3H2                     | C-49           |
| A2H2                     | C-25           | A2R17                    | C-28           | A3H2                     | C-53           |
| A2MP1                    | C-26           | A2R18                    | C-27           | A3H2                     | C-54           |
| A2MP2                    | C-26           | A2R19                    | C-27           | A3H2                     | C-55           |
| A2MP3                    | C-26           | A2R20                    | C-27           | A3H2                     | C-56           |
| A2MP4                    | C-26           | A2R21                    | C-27           | A3MP1                    | C-47           |
| A2P1                     | C-25           | A2R22                    | C-27           | A3MP2                    | C-47           |
| A2Q1                     | C-28           | A2TP1                    | C-28           | A3MP3                    | C-47           |
| A2Q2                     | C-29           | A2A1                     | C-26           | A3MP5                    | C-52           |
| A2Q3                     | C-29           | A3                       | C-46           | A3MP6                    | C-52           |
| A2Q4                     | C-28           | A3CR1                    | C-50           | A3MP7                    | C-52           |
| A2R1                     | C-26           | A3CR2                    | C-50           | A3MP8                    | C-52           |
| A2R2                     | C-26           | A3CR3                    | C-50           | A3MP9                    | C-52           |
| A2R3                     | C-26           | A3CR4                    | C-51           | A3MP10                   | C-53           |
| A2R4                     | C-26           | A3CR5                    | C-51           | A3Q1                     | C-53           |
| A2R5                     | C-26           | A3CR6                    | C-52           | A3Q2                     | C-55           |
| A2R6                     | C-26           | A3H1                     | C-47           | A3Q3                     | C-55           |
| A2R7                     | C-26           | A3H1                     | C-48           | A3Q4                     | C-53           |
| A2R8                     | C-27           | A3H1                     | C-50           | A3Q5                     | C-54           |

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| REFERENCE<br>DESIGNATION | PAGE<br>NUMBER | REFERENCE DESIGNATION | PAGE<br>NUMBER | REFERENCE<br>DESIGNATION | PAGE<br>NUMBER |
|--------------------------|----------------|-----------------------|----------------|--------------------------|----------------|
| A3Q6                     | C-54           | A4H2                  | C-42           | A4A2MP3                  | C-40           |
| A3R8                     | C-49           | A4H2                  | C-43           | A4A2P1                   | C-40           |
| A3R9                     | C-49           | A4H2                  | C-44           | A4A2Q1                   | C-42           |
| A3S1                     | C-53           | A4H4                  | C-42           | A4A2Q2                   | C-42           |
| A3A1                     | C-47           | AJ1                   | C-42           | A4A2R1                   | C-40           |
| A3A1E1                   | C-48           | A4MP1                 | C-39           | A4A2R2                   | C-40           |
| 7.07.12.1                | 0 10           | 7                     | 0 00           | A4A2R3                   | C-41           |
| A3A1E2                   | C-49           | A4MP2                 | C-39           | A4A2R4                   | C-41           |
| A3A1E3                   | C-49           | A4MP3                 | C-43           | A4A2R5                   | C-41           |
| A3A1E4                   | C-49           | A4MP4                 | C-44           | A4A2R6                   | C-41           |
| A3A1E5                   | C-49           | A4Q1                  | C-43           | A4A2R7                   | C-41           |
| A3A1E6                   | C-49           | A4Q2                  | C-43           | A4A2R8                   | C-41           |
| A3A1E7                   | C-48           | A4A1                  | C-42           | A4A2R9                   | C-41           |
| A3A1E8                   | C-49           | A4A2                  | C-39           | A4A2R10                  | C-41           |
| A3A1MP1                  | C-48           | A4A2C1                | C-39           | A4A3                     | C-42           |
| A3A1R1                   | C-48           | A4A2C2                | C-40           | A5                       | C-29           |
| A3A1R2                   | C-48           | A4A2C3                | C-40           | A5C1                     | C-29           |
| A3A1R3                   | C-48           | A4A2C4                | C-40           | A5C2                     | C-29           |
| A3A1R4                   | C-48           | A4A2CR1               | C-41           | A5CR1                    | C-31           |
| A3A1R5                   | C-48           | A4A2CR2               | C-41           | A5CR2                    | C-31           |
| A3A1R6                   | C-48           | A4A2CR3               | C-41           | A5CR3                    | C-31           |
| A3A1R7                   | C-48           | A4A2CR4               | C-41           | A5CR4                    | C-31           |
| A4                       | C-39           | A4A2E1                | C-41           | A5H2                     | C-29           |
| A4H1                     | C-39           | A4A2E2                | C-42           | A5H3                     | C-29           |
| A4H1                     | C-43           | A4A2H2                | C-40           | A5J1                     | C-29           |
| A4H1                     | C-44           | A4A2MP1               | C-40           | A5MP1                    | C-30           |
| A4H2                     | C-39           | A4A2MP2               | C-40           | A5MP2                    | C-29           |

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| REFERENCE<br>DESIGNATION | PAGE<br>NUMBER | REFERENCE<br>DESIGNATION | PAGE<br>NUMBER | REFERENCE<br>DESIGNATION | PAGE<br>NUMBER |
|--------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
| 2201011111011            |                | 2201011111011            |                | 2201011111011            |                |
| A5MP3                    | C-29           | A6A1C1                   | C-36           | A8C1                     | C-9            |
| A5MP4                    | C-29           | A6A1E1                   | C-37           | A8C2                     | C-9            |
| A5MP1                    | C-30           | A6A1E2                   | C-37           | A8C3                     | C-10           |
| A5MP6                    | C-30           | A6A1E4                   | C-37           | A8C4                     | C-10           |
| A5Q1                     | C-31           | A6A1E5                   | C-37           | A8C5                     | C-10           |
| A5Q2                     | C-31           | A6A1E6                   | C-36           | A8C6                     | C-11           |
| A5Q3                     | C-31           | A6A1E7                   | C-37           | A8E1                     | C-14           |
| A5R1                     | C-30           | A6A1E8                   | C-37           | A8E2                     | C-15           |
| A5R2                     | C-30           | A6A1E9                   | C-38           | A8H1                     | C-9            |
| A5R3                     | C-30           | A6A1E10                  | C-38           | A8H1                     | C-10           |
| A5R5                     | C-30           | A6A1E11                  | C-37           | A8H1                     | C-11           |
| A5R6                     | C-30           | A6A1E12                  | C-37           | A8H1                     | C-15           |
| A5R7                     | C-30           | A6A1H2                   | C-36           | A8H3                     | C-13           |
| A5R8                     | C-30           | A6A1MP1                  | C-36           | A8H3                     | C-14           |
| A5R9                     | C-31           | A6A1R2                   | C-37           | A8H4                     | C-9            |
| A5R10                    | C-31           | A6A1R3                   | C-37           | A8MP1                    | C-9            |
| A5R12                    | C-30           | A6A1R4                   | C-37           | A8MP2                    | C-13           |
| A5R13                    | C-30           | A6A1R5                   | C-37           | A8MP3                    | C-13           |
| A5TP1                    | C-31           | A7                       | C-8            | A8MP4                    | C-13           |
| A6                       | C-36           | A7C1                     | C-8            | A8MP5                    | C-14           |
| A6H2                     | C-38           | A7C2                     | C-8            | A8MP6                    | C-14           |
| A6H4                     | C-38           | A7E1                     | C-9            | A8A1                     | C-11           |
| A6K1                     | C-38           | A7E2                     | C-9            | A8A1A1H2                 | C-11           |
| A6MP1                    | C-38           | A7H1                     | C-8            | A8A1A1MP <sub>2</sub>    | C-11           |
| A6R1                     | C-38           | A7MP1                    | C-8            | A8A1A1MP <sub>3</sub>    | C-11           |
| A6A1                     | C-36           | A8                       | C-9            | A8A1A1MP <sub>4</sub>    | C-11           |

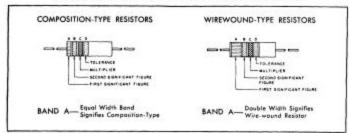
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| REFERENCE<br>DESIGNATION | PAGE<br>NUMBER | REFERENCE<br>DESIGNATION | PAGE<br>NUMBER | REFERENCE<br>DESIGNATION | PAGE<br>NUMBER |
|--------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
| DESIGNATION              | NOWIDER        | DESIGNATION              | NOWIDER        | DESIGNATION              | NOWIDER        |
| A8A1A1MP5                | C-11           | A11                      | C-16           |                          |                |
| A8A1A1MP6                | C-11           | A11H2                    | C-16           |                          |                |
| A8A1A1MP7                | C-12           |                          |                |                          |                |
| A8A1A1MP8                | C-12           | A11J1                    | C-16           |                          |                |
| A8A1A1IMP9               | C-12           | A11J2                    | C-16           |                          |                |
| A8A1A1MP10               | C-12           | A11J5                    | C-17           | İ                        | į į            |
| A8A1A1MP11               | C-12           |                          |                |                          |                |
| A8A1A1MP12               | C-12           |                          |                |                          |                |
| A8A1A1MP13               | C-12           | İ                        | İ              | j                        | j              |
| A8A1A1MP14               | C-12           |                          |                |                          |                |
| A8A1A1MP15               | C-12           |                          |                |                          |                |
| A8A1A1MP16               | C-12           |                          | į į            | İ                        | į į            |
| A8A1A1MP17               | C-12           |                          |                |                          |                |
| A8A1A1MP18               | C-12           |                          |                |                          |                |
| A8A1A1MP19               | C-13           | İ                        | İ              | j                        | j              |
| A8A1A1MP20               | C-13           |                          |                |                          |                |
| A8A1A1MP21               | C-13           |                          |                |                          |                |
| A9                       | C-31           | İ                        | İ              | j                        | j              |
| A9H16                    | C-32           |                          |                |                          |                |
| A9MP1                    | C-31           |                          |                |                          |                |
| A9MP2                    | C-32           |                          | İ              | İ                        | j              |
| A9MP3                    | C-32           |                          |                |                          |                |
| A9MP4                    | C-32           |                          |                |                          |                |
| A9MP5                    | C-32           | İ                        | j              | İ                        | j              |
| A9MP6                    | C-32           |                          |                |                          |                |
| A10                      | C-34           |                          |                |                          |                |

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#### TM 11-6130-266-15

#### COLOR CODE MARKING FOR MILITARY STANDARD RESISTORS



| COLOR | CODE | TAB |
|-------|------|-----|
|       |      |     |

| BA                 | ND A                                      | BA                | ND B  | BA                      | ND C      | BA    | ND D° |
|--------------------|---|-------------------|-------|-------------------------|-----------|-------|-------|
| COLOR              | COLOR SIGNATICANT COLOR SIGNATICANT COLOR | AUCTIPLES         | COLOR | TOLE BANCE<br>(PERCENT) |           |       |       |
| BLACK              |   | MACE              | 0     | BLACK                   | 1         |       |       |
| BROWN              | 1   | BROWN             |       | BROWN                   | 10        |       |       |
| MED                | 1   | #ED               |       | MD                      | 100       |       |       |
| ORANGE             | 1   | CRANGE            | 3     | ORANGE                  | 1,000     |       |       |
| AEITOM             |   | ASTROM            | -     | MILLOW                  | 10,000    | SEVER | - 10  |
| GREN               | 1   | OHIEN             | 3     | CREEN                   | 100,000   | 6010  | + 5   |
| BLUE               |   | #IUE              |       | 9108                    | 1,000,000 |       |       |
| PURPLE<br>(VIOLET) | ,   | PURPLE<br>(WOLET) | ,     |                         |           |       |       |
| GRAY               | •   | GEAY              | . 1   | PEAGE                   | 0.01      |       |       |
| WHITE              |   | WHITE             |       | GOLD                    | 0.1       |       |       |

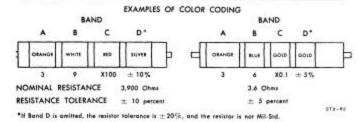


Figure 8-1. Color code marking for resistors and capacitors.

0

FEED-THROUGH

COLOR CODE MARKING FOR MILITARY STANDARD CAPACITORS

GLASS-DIELECTRIC, GLASS CASE

Caracitance socrance

0

STAND-OFF

MICA, BUTTON TYPE

DISK-TYPE

- TEMPERATURE COEFFICIENT iar significant Fisher

S SENECHAT NOME

GROUP | Capacitors, Fixed, Various-Dielectrics, Styles CM, CN, CY, and CB

GROUP II Copacitors, Fixed Ceramic-Dielectric (General Purpose) Style CK

GROUP III Capacitors, Fixed, Ceramic-Dieletric (Temperature Compensating) Style CC

PAPER-DIELECTRIC

TEMPERATURE SAMPE AMP
VOLTAGE-TEMPERATURE, LIMIT
VOLTAGE-TEMPERATURE TOLORE

20 SIGNIFICANT FIGURE

CAPACITANCE TOLORAMICS

CAPACITANCE TOLORAMICS

RADIAL LEAD

MICA-DIELECTRIC

ATIAL LEAD

AXIAL LEAD

JASE-TEMPERATURE LIMIT
IST BIORIFICANT FIGURE
20 SIGNIFICANT FIGURE
MULTIPLIER
CAPASITANSE TOLERANCE

#### COLOR CODE TABLES

TABLE I - For use with Group I, Styles CM, CN, CY and CB

| colos  | AVIL<br>ID | SIG SIG MULTIPLER CAPACITANCE TOLERANCE |    | NCE    | CHARACTERISTIC <sup>†</sup> |       |       | C)    | DC WORKING<br>VOLTAGE | OPERATING TEMP. | GRADE . |    |     |                |              |
|--------|------------|---|----|--------|-----------------------------|-------|-------|-------|-----------------------|-----------------|---------|----|-----|----------------|--------------|
|        | 10         | FIG                                     | MG |        | CM                          | ON    | CY    | CB:   | CM                    | CN              | CY      | C8 | CH  | CM             | CM           |
| BACK   | CM. CF.    | 0                                       | 0  | 1      |                             |       | 2 20% | 2.10% |                       |                 |         |    |     | -85" to +70"C  | 12-22 cm     |
| METHOR | 100        | 1                                       | 1. | 10     |                             |       |       | 100   |                       | .1.             |         |    |     |                |              |
| 860    |            | 1                                       | 8  | 100    | + 2%                        |       | + 15  | = 1%  | C                     |                 |         |    | 1   | -85, to +82,C  |              |
| DRANGE |            | 3                                       | 3  | 1,800  |                             | 2.30% |       |       |                       |                 |         | 0  | 300 |                |              |
| WORLD  |            |   |    | 10,000 |                             |       |       |       | 1                     |                 |         |    |     | -55" to +135"C | 10-2,000 spe |
| GRITH  |            | . 1                                     | 1  |        | 2 1%                        |       |       |       |                       |                 |         |    | 800 |                |              |
| BOVE   |            |   |    |        |                             |       |       |       |                       |                 |         |    |     | -45" to +150"C |              |
| NAME   |            | ,                                       | ,  |        |                             |       |       |       |                       |                 |         |    |     |                |              |
| GREE.  |            |   |    |        | -                           |       |       |       |                       |                 |         |    |     |                |              |
| WHITE  |            |   |    |        |                             |       |       |       |                       |                 |         |    |     |                |              |
| 900    |            |   |    | 6.1    |                             |       | = 5%  | 2.5%  |                       |                 |         |    |     |                |              |
| 16.VER | CH         |   |    |        | ± 10%                       | ± 10% | ± 10% | 2.10% |                       |                 |         |    |     |                |              |

TABLE II - For use with Group II, General Purpose, Style CK

TABLE III - For use with Group III, Temperature Compensating, Style CC

| cotos  | TEMP. RANGE AND<br>VOLTAGE - TEMP.<br>UMITS! |    |    | MULTIPLIER' | CAPADITANCE<br>TOURANCE | MI |
|--------|--|----|----|-------------|-------------------------|----|
| MADE   |  | 2  | .0 | 1           | 2.30%                   |    |
| HWOM   | AW   | -1 | 1  | 16          | * 10%                   |    |
| RED    | AX   | 2  | 1  | 100         |                         |    |
| DEANGE | 16   | 2  | 1  | 1,000       |                         |    |
| TRUDW  | AV   |    | 4  | 19,800      |                         | CX |
| GHTW   | a  |    | 8  |             |                         |    |
| N/AL   |  |    |    |             |                         |    |
| PURPLE |  | ,  | 1  |             |                         |    |
| CHY    |  |    |    |             |                         |    |
| witte  |  |    |    |             |                         |    |
| 6019   |  |    |    |             |                         |    |
| DLYRF  |  |    |    |             |                         |    |

|        | TEMPERATURE | Tet  |     |            | CAPACITANO                | E TOLERANCE  | MIL  |
|--------|-------------|------|-----|------------|---------------------------|--|------|
| COIO   | COFFRCIENT  | FIG. | RIG | MULTIPLIER | Copediances<br>over 10ccf | Capacitances<br>10vof or less  | 10   |
| BLACK  | 0           | 0    |     | 1          |                           | 2.0xef   | - cc |
| BEOWN  | -30         | 1    | - 1 | 10         | 2.1%                      |  |      |
| mo     | - 87        | 1    | 2   | 100        | 4.2%                      | 1: 8.33vel   |      |
| DENNOE | 190         | 1    | 3   | 1,000      | -96216                    | The state of the s |      |
| YELLOW | -133        |      |     |            |                           |  |      |
| CALLH  | -330        | 1    | 5   |            | 2.1%                      | ± 9.5cml   |      |
| BLUE   | -479        |      |     |            |                           | -  |      |
| PUBILE | -790        | 1    |     |            |                           |  |      |
| 6811   |             |      | 1   | 8,01       |                           |  |      |
| WHITE  |             | *    |     | 2.1        | 2.10%                     |  |      |
| 6019   | *180        |      |     |            |                           | ± 1.0ml  |      |
| Serves | 7-1-7-1-1   |      |     |            |                           |  |      |

- The multiplier is the number by which the two significent (SG) figures are multiplied to obtain the capacitance is set.
- 2. Letters indicate the Characteristics designated in applicable specifications: MIL-C-3, MIL-C-91, MIL-C-11272, and MIL-C-10950 respectively.
- Letters indicate the temperature range and voltage-temperature limits designated in MIL-C-11015.
- 4. Temperature coefficient in parts per million per degree centigrade.

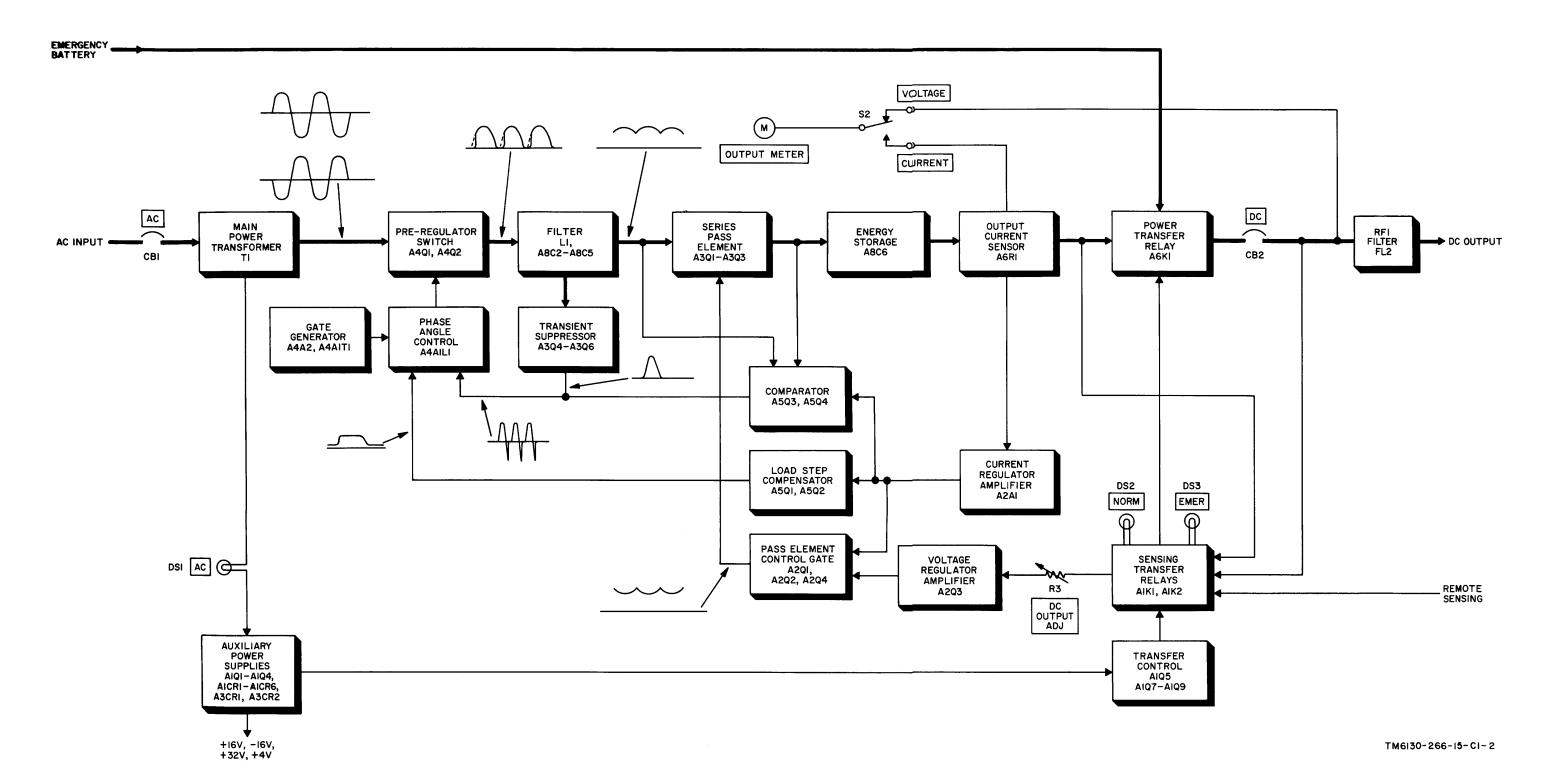


Figure 8-2. Power Supply PP-6224/U, block diagram.

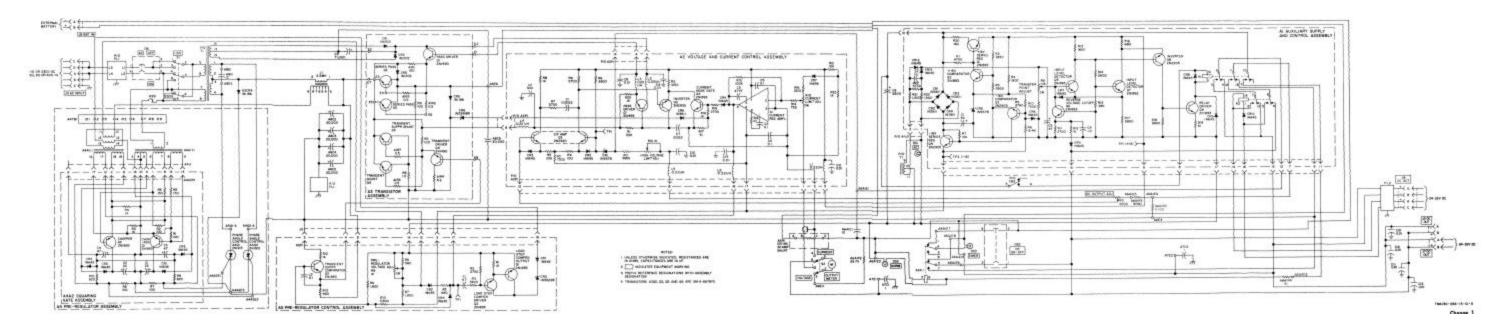


Figure 8-3. Power Supply PP-6224/U, Schematic diagram.

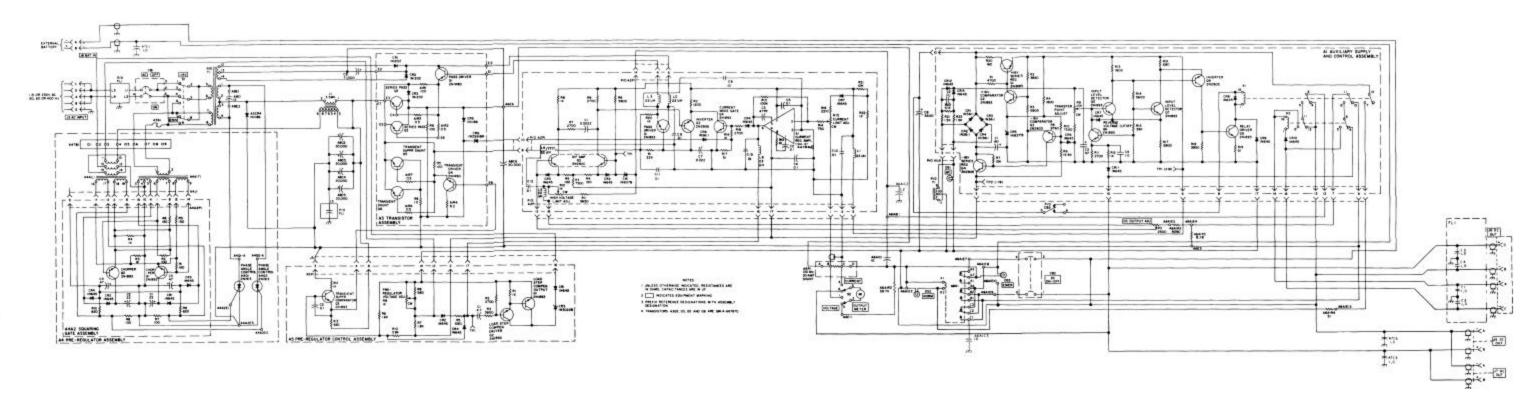


Figure 8-4. Power Supply PP-6224A/U, Schematic diagram

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# THE METRIC SYSTEM AND EQUIVALENTS

#### **'NEAR MEASURE**

Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches

1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches

1 Kilometer = 1000 Meters = 0.621 Miles

#### **YEIGHTS**

Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces

1 Kilogram = 1000 Grams = 2.2 lb.

1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

#### LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces

1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

#### **SQUARE MEASURE**

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches

1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet

1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

#### **CUBIC MEASURE**

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

#### **TEMPERATURE**

 $5/9(^{\circ}F - 32) = ^{\circ}C$ 

212° Fahrenheit is evuivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius

32° Fahrenheit is equivalent to 0° Celsius

 $9/5C^{\circ} + 32 = {\circ}F$ 

#### **APPROXIMATE CONVERSION FACTORS**

| TO CHANGE              | TO                   | MULTIPLY BY |
|------------------------|----------------------|-------------|
| Inches                 | Centimeters          | 2.540       |
| Feet                   | Meters               | 0.305       |
| Yards                  | Meters               |             |
| Miles                  | Kilometers           | 1.609       |
| Square Inches          | Square Centimeters   | 6.451       |
| Square Feet            | Square Meters        |             |
| Square Yards           | Square Meters        | 0.836       |
| Square Miles           | Square Kilometers    | 2.590       |
| Acres                  | Square Hectometers   |             |
| Cubic Feet             | Cubic Meters         | 0.028       |
| Cubic Yards            | Cubic Meters         |             |
| Fluid Ounces           | Milliliters          |             |
| nts                    | Liters               | 0.473       |
| arts                   | Liters               | 0.946       |
| allons                 | Liters               | 3.785       |
| Ounces                 | Grams                | 28.349      |
| Pounds                 | Kilograms            | 0.454       |
| Short Tons             | Metric Tons          |             |
| Pound-Feet             | Newton-Meters        | 1.356       |
| Pounds per Square Inch | Kilopascals          |             |
| Miles per Gallon       | Kilometers per Liter | 0.425       |
| Miles per Hour         | Kilometers per Hour  | 1.609       |
|                        |                      |             |

| TO CHANGE          | TO                     | MULTIPLY BY |
|--------------------|------------------------|-------------|
| Centimeters        | Inches                 | 0.394       |
| Meters             | Feet                   | 3.280       |
| Meters             | Yards                  | 1.094       |
| Kilometers         | Miles                  | 0.621       |
| Square Centimeters | Square Inches          | 0.155       |
| Square Meters      | Square Feet            |             |
| Square Meters      | Square Yards           | 1.196       |
| Square Kilometers  | Square Miles           | 0.386       |
| Square Hectometers | Acres                  |             |
| Cubic Meters       | Cubic Feet             |             |
| Cubic Meters       | Cubic Yards            |             |
| Milliliters        | Fluid Ounces           |             |
| Liters             | Pints                  | 2.113       |
| Liters             | Quarts                 | 1.057       |
| `ers               | Gallons                | 0.264       |
| .ms                | Ounces                 | 0.035       |
| .ograms            | Pounds                 | 2.205       |
| Metric Tons        | Short Tons             | 1.102       |
| Newton-Meters      | Pounds-Feet            | 0.738       |
| Kilopascals        | Pounds per Square Inch | 0.145       |
| ometers per Liter  | Miles per Gallon       | 2.354       |
| meters per Hour    | Miles per Hour         | 0.621       |



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