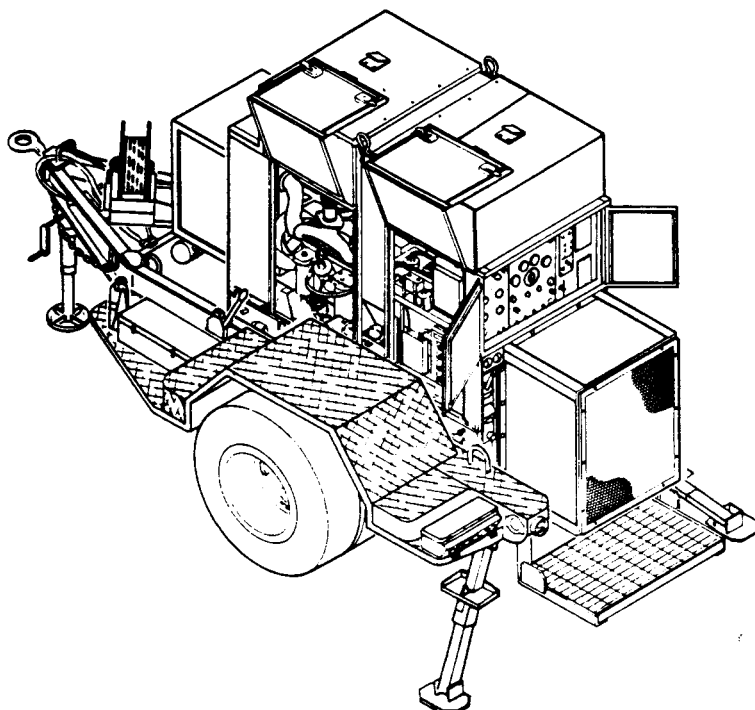


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NAVY PUBLICATION      NAVFAC P-8-647-14 & P  
AIR FORCE TECHNICAL ORDER      TO-35C2-3-445-14  
MARINE CORPS TECHNICAL MANUAL      TM-6115-14 & P/1

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TECHNICAL MANUAL

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



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INTERMEDIATE  
DIRECT SUPPORT  
MAINTENANCE 5-1

INTERMEDIATE  
GENERAL SUPPORT  
MAINTENANCE 6-1

POWER UNIT, DIESEL ENGINE  
DRIVEN, TRAILER MOUNTED,  
20 KW, 60 HZ

PU 794/G

(NSN 6115-01-242-1665)

Approved for public release. Distribution is unlimited.

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HEADQUARTERS, DEPARTMENT OF THE ARMY  
16 AUGUST 1988

**WARNING**

Wheels must be blocked, brakes set and leg supports down in support position before operating the equipment. Failure to do so may result in serious injury.

**WARNING**

Do not operate the PU 794/G until it has been connected to a suitable ground. Serious injury or death by electrocution may result from operating an ungrounded PU 794/G.

**WARNING**

Nuts must be tight on the slide hammer rod. Loose hardware may result in serious injury.

**WARNING**

When making cable connections, PU 794/G must be shut down. Failure to observe this warning could result in death by electrocution.

**WARNING**

When making cable connections, both PU 794/G's must be shut down due to feedback from an operating unit. Failure to observe this warning could result in death by electrocution.

**WARNING**

Engine fan is not shrouded. Exercise caution when doors are open with engine running. Failure to do so could result in serious injury.

**WARNING**

Hearing protection is required when working in the area of the PU 794/G when engine is running with access doors open. Failure to do so could result in hearing loss.

**WARNING**

Lethal voltages are present at the load connection board of the generator set during operation. Do not attempt to connect or disconnect load leads while the generator set is operating. Do not attempt to connect or disconnect load leads with the generator set shut down and the load connected to another power source, or while the generator set is paralleled to another unit which is operating. Serious injury or death by electrocution could result.

**WARNING**

PU 794/G must be shut down before checking cable connectors. Failure to do so could result in serious injury or death by electrocution.

**WARNING**

PU 794/G must be shut down before disconnecting remote control unit. Serious injury or death by electrocution could result if procedure is performed with power unit running.

**WARNING**

PU 794/G must be shut down before performing all tests. Failure to do so could result in serious injury or death by electrocution.

**WARNING**

Electrolyte and battery corrosion can cause injury to you. Be careful not to splash electrolyte on yourself or the equipment.

**WARNING**

The baffle assembly is too bulky and heavy for one person to remove. Get help to lift or carry assembly. Failure to do so may result in serious injury.

**WARNING**

Removal and installation of access doors is awkward. Get help in holding the doors. Failure to do so could result in serious injury.

**WARNING**

The rear cover is somewhat awkward to remove. Get help to lift the cover off the generator set. Failure to do so could result in serious injury.

**WARNING**

The removal/installation of the rear housing frame requires two persons, one to hold the housing upright while the mounting hardware is being removed. Failure to do so could result in serious injury.

**WARNING**

During removal, allow time for silencer and tube assembly to cool before handling. Failure to do so could result in serious injury.

**WARNING**

During removal, allow for the exhaust tube assembly to become cool before handling. Failure to do so could result in serious injury.

**WARNING**

When using compressed air, use eye protection and do not direct air toward skin. Pressure should not exceed 30 psig. Failure to observe this warning could result in serious injury.

**WARNING**

Due to the bulk and weight of the front steps, a minimum of two persons are required to move them. Failure to do so could result in serious injury.

**WARNING**

Due to the bulk and weight of the fenders, a minimum of two persons are required to move them. Failure to do so could result in serious injury.

**WARNING**

Due to the bulk and weight of the rear steps, a minimum of two persons are required to move them. Failure to do so could result in serious injury.

**WARNING**

Due to the bulk and weight of the tail gate, a minimum of two persons are required to move it. Failure to do so could result in serious injury.

**WARNING**

To avoid short circuits which could damage equipment or injure personnel, always disconnect negative battery cable before performing maintenance on the electrical system.

**WARNING**

Live voltages are present while the generator set is operating. Be careful not to physically touch exposed power wiring of power connector with the body. Serious injury or death by electrocution could result.

**WARNING**

Prior to separating the PU-794/G from the prime mover open the accessory box and remove the ground rod sections, slide hammer rod, and the ground wire assembly. The accessory box cannot be accessed when the curbside handbrake is engaged. Failure to do so may result in serious injury or equipment damage.

**WARNING**

To gain entry to the accessory box the curbside handbrake must be disengaged. Be sure the wheels are blocked and leg supports down before disengaging the handbrake. When finished using the accessory box be sure curbside handbrake is engaged. Failure to observe this warning may result in serious personal injury or damage to equipment.

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OPERATOR, UNIT, AND INTERMEDIATE (DIRECT  
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REPAIR PARTS AND SPECIAL TOOLS LIST

POWER UNIT, DIESEL ENGINE DRIVEN, TRAILER MOUNTED, 20 KW, 60 HZ  
PU 794/G  
(NSN 6115-01-242-1665)

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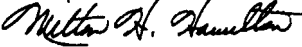
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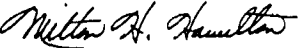
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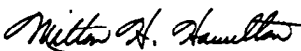
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TRAILER MOUNTED, 20 KW, 60 HZ, PU 794/G  
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TECHNICAL MANUAL  
NO. 5-6115-634-14&P

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DEPARTMENTS OF THE ARMY, NAVY AND AIR FORCE  
WASHINGTON, D.C., 16 August 1988

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

POWER UNIT, DIESEL ENGINE DRIVEN, TRAILER MOUNTED, 20 KW, 60 HZ  
PU 794/G  
(NSN 6115-01-242-1665)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. You may also submit your recommended changes by E-mail directly to <mpmt%avma28@st-louis-emh7.army.mil>. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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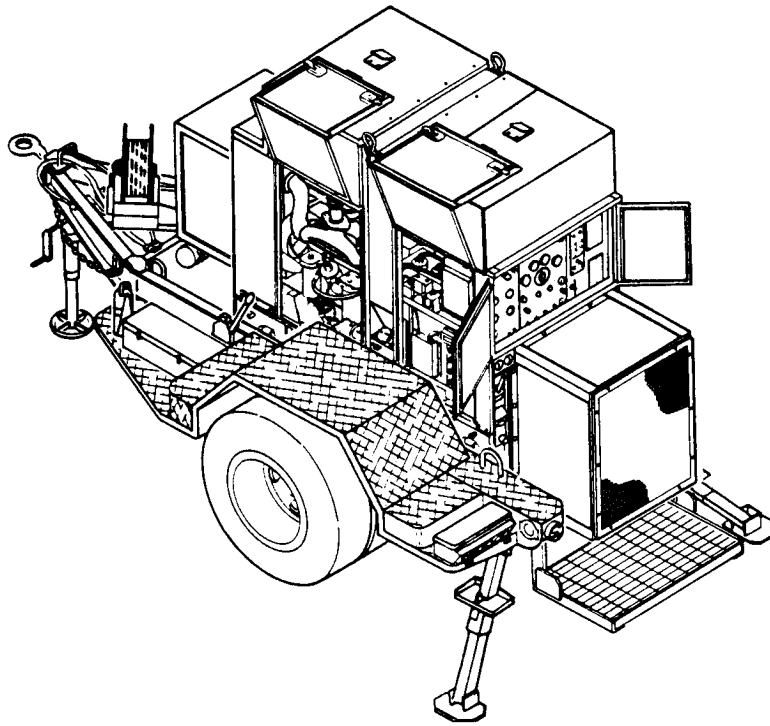
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## HOW TO USE THIS MANUAL

The front cover index will assist you in quickly locating information. It identifies information frequently used by the operator and maintenance personnel. Each item appearing on the front cover is boxed and identified by topic and page number in the manual where the information is located. The page in the manual in conjunction with the front cover has a black box on the edge of the page. Bend the manual in half and follow the margin index to the page with the black edge marker.



A complete, Alphabetical, subject index is located in the back of the manual and separate sequential indexes appear before each chapter. These indexes should help you in locating information under most likely looked for names. Entries within the table of contents which duplicate the entries on the front cover index are highlighted with a box.



CHAPTER 1  
INTRODUCTION  
CHAPTER INDEX

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Equipment Description and Data	1-3
Principles of Operation	1-7
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**Section I. GENERAL INFORMATION**

**1-1. Scope**

a. This manual is published for the information and guidance of personnel to whom the power unit, PU 794/G, is issued. It contains instructions for operation, unit, direct support and general support maintenance including repair parts and special tool lists for items of the PU 794/G not covered in other technical manuals.

b. The PU 794/G provides 20 kW, 60 Hz precise power. The PU 794/G consists of a modified MEP 004A 15 kW, 60 Hz generator mounted on a modified M200A1 trailer.

c. Refer to TM 5-6115-464 series manuals for generator set basic operation and maintenance and TM 9-2330-205-14&P for the trailer.

d. Some portions of this publication are not applicable to all services. These portions are prefixed to indicate the services to which they pertain: (A) for Army, (F) for Air Force, (N) for Navy, and (MC) for Marine Corps. Portions not prefixed are applicable to all services.

**1-2. Maintenance Forms, Records and Reports.**

a. (A) Maintenance forms and records used by Army personnel are prescribed by DA Pam 738-750.

b. (F) Maintenance forms and records used by Air Force personnel are prescribed in AFM-66-1 and the applicable 00-20 series Technical Orders.

c. (N) Navy users should refer to their service-peculiar directives to determine applicable maintenance forms and records to be used.

d. (MC) Maintenance forms and records used by Marine Corps personnel are prescribed by TM4700-15/1

e. Reports of errors, omissions and recommendations for improvement of this manual by its user is encouraged. Such reports should be submitted by various service personnel as follows:

(1) Army. DA Form 2028 direct to: Commander, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798.

(2) Navy. By letter direct to: Commanding Office, Naval Construction Battalion Center, ATTN: Code 15741, Port Hueneme, CA 93043-5000.

(3) Air Force. AFTO Form 22 direct to: Commander, Sacramento Air Logistics Center (AFLC), ATTN: SM-ALC-MMEDTA, McClellan AFB, CA 95652-5609.

(4) Marine Corps. NAVMC 10772 direct to: Commanding General, U.S. Marine Corps, Marine Corps Logistics Base (Code 850) Albany, GA 31704-5000.

1-3. Destruction to Prevent Enemy Use

Demolition of the PU 794/G to prevent enemy use will be in accordance with the requirements of TM750-244-3. Refer to TM750-244-6 for trailer destruction procedures.

Let us know why you do not like the design. Put it on SF 368 (Quality Deficiency Report). Mail it to us at: Commander, U.S. Army Troop Support Command, ATTN: AMSTR-QX, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. We will send you a reply.

1-4. (A) Reporting Equipment Improvement Recommendations (EIR)

If your PU 794/G needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you do not like about your equipment.

1-5. Nomenclature Cross-Reference

Refer to Table 1-1 for nomenclatures which deviate or shorten the official nomenclature. The common name and the official nomenclature is provided to prevent misunderstandings.

TABLE 1-1. NOMENCLATURE CROSS REFERENCE LIST

<u>Common Name</u>	<u>Official Nomenclature</u>
PU 794/G	Power Unit, Diesel Engine Driven, Trailer Mounted, 20 kW, 60 Hz, PU 794/G
M200A1 trailer	Chassis, Trailer: Generator, 2 1/2 Ton, 2-wheel, modified M200A1
Generator set	Generator Set, Diesel Engine Driven, 15 kW modified to 20 kW, 60Hz

1-6. List of Abbreviations

Refer to Table 1-2 for a list of non-standard abbreviations used in this manual.

TABLE 1-2. LIST OF NONSTANDARD ABBREVIATIONS

<b>cm</b>	Centimeter
<b>°C</b>	Degree Celsius
<b>°F</b>	Degree Fahrenheit
Hz	Hertz
kg	Kilograms
km/h	Kilometer per hour
kPa	Kilo Pascals
kW	Kilowatt
n-m	Newton-meter



## 1-7. Glossary

Refer to Table 1-3 for a glossary of terms. This table gives the manual user definitions not provided in Tables 1-1 and 1-2.

TABLE 1-3. GLOSSARY

Toxic	Poisonous
Electrolyte	A mixture of sulfuric acid and water used in the batteries.
Isochronous	Recurring at regular intervals

## Section II. EQUIPMENT DESCRIPTION AND DATA

### 1-8. Equipment Characteristics, Capabilities and Features

a. Description: The PU 794/G consists of a modified M200A1 trailer chassis, auxiliary assemblies and a modified 15 kW, 60 Hz, generator set (MEP-004A). The modifications are not intended or designed to be removed. The modifications are as follows:

- (1) The PU 794/G is rated at 20 kW.
- (2) The engine generator assembly is mounted on shock isolator mounts to reduce noise transmission.
- (3) The fan and shrouding were replaced with an improved fan and guard for better cooling and noise reduction.
- (4) A muffler is added to a new combustion air intake filter housing and the exhaust system is modified to reduce noise.
- (5) The top of the set was raised to enclose the muffler and sound suppression material is added to the inside of the housing.
- (6) Devices for electromagnetic pulse protection (EMP) have been added.
- (7) A remote control unit for the PU 794/G is furnished for mounting inside

a communications shelter and will start, stop and parallel two power units. The remote control unit indicates set running, contactor closed, low fuel and phase relation for paralleling.

(8) To facilitate remote paralleling, the PU 794/G has a remote speed-setting isochronous governor, permissive paralleling relay, under-frequency and undervoltage protective devices, associated control and power cables, junction boxes and switches.

b. Features: The PU 794/G provides 20 kW, 60 Hz power and has noise reduction to 65 db(A) in any direction when measured at seven meters. The unit is EMP protected. The unit can be operated from the generator set controls or from the remote control unit. It can be operated as a single unit or paralleled with another PU 794/G for load transfer. Two PU 794/G's are not to be continuously operated in parallel. The power unit can be operated while being towed.

### 1-9. Location and Description of Major Components

Refer to Figure 1-1 and 1-2 for the location of major components of the PU 794/G. For components not discussed in this paragraph, refer to TM5-6115-464-12 for the generator set components and TM9-2330-205-14&P for the components of the trailer.

TM5-6115-634-14&P  
NAVFAC P-8-647-14&P  
TO-35C2-3-445-14  
TM-6115-14&P/1

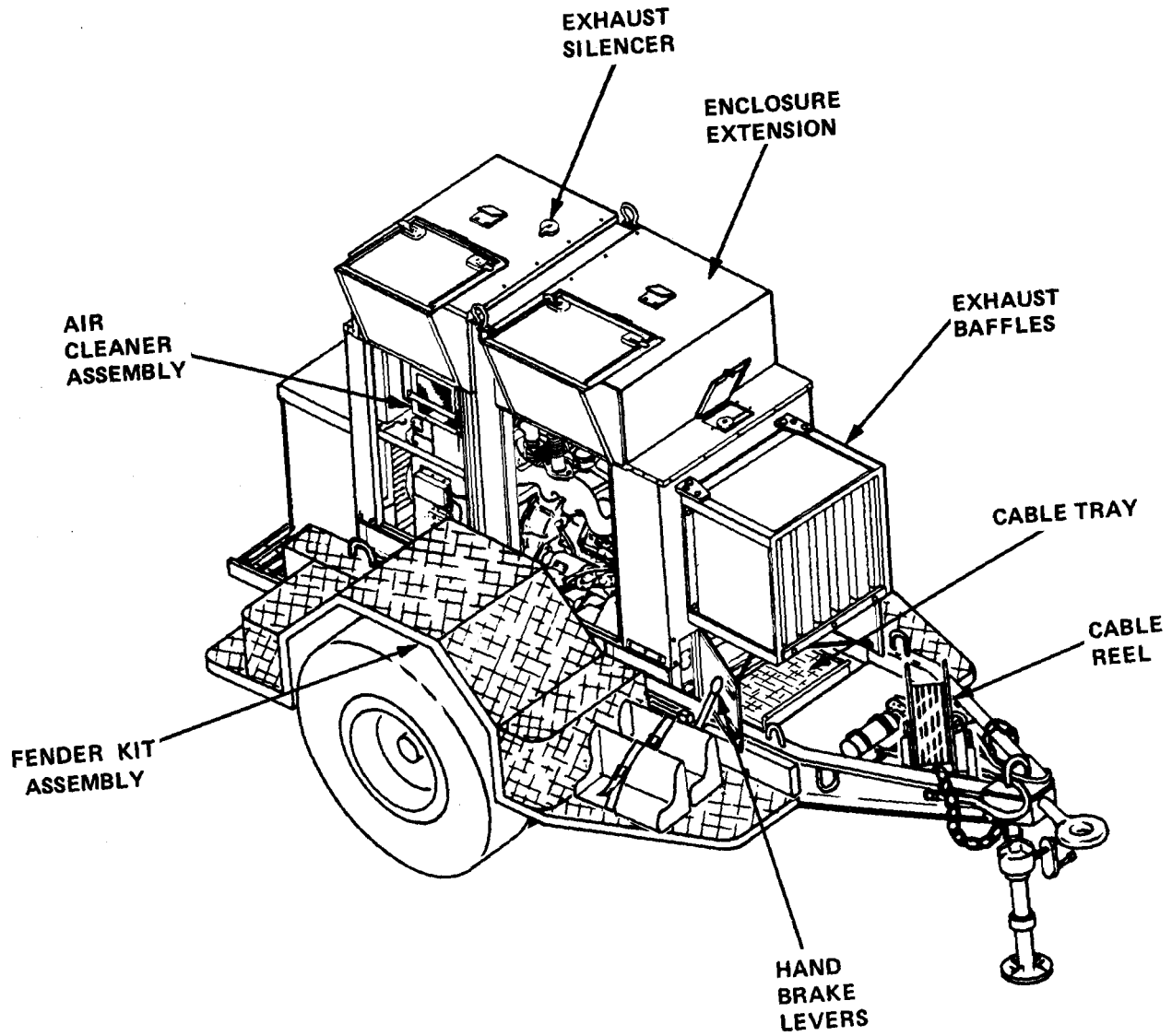


Figure 1-1. Curbside View PU 794/G

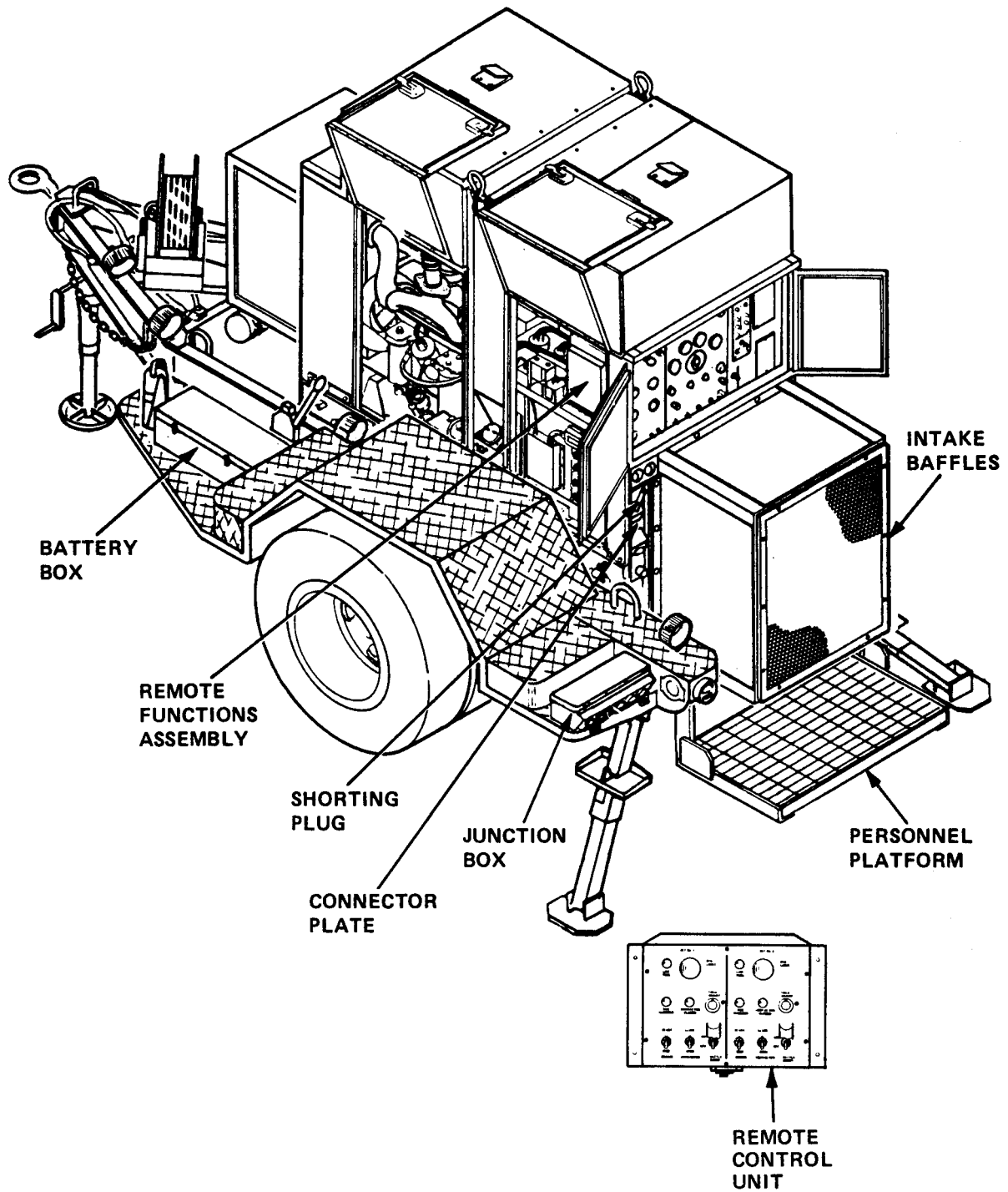


Figure 1-2. Roadside View PU 794/G

- a. Exhaust Silencer: Replaces the existing muffler to decrease exhaust noise during operation.
- b. Enclosure Extension: Added to raise the top of the generator set to house the new exhaust silencer.
- c. Exhaust Baffles: Noise absorbing baffles that reduces exhaust air noise during operation.
- d. Air Cleaner Assembly: Includes a resonant chamber to reduce air flow noise.
- e. Intake Baffles: Noise absorbing baffles that reduces intake air noise during operation.
- f. Connector Plate: Provides an external connection for power and remote control cables.
- g. Shorting Plug: Permits local operation.
- h. Remote Functions Assembly: Provides interface between the generator set and the remote control unit.
- i. Fender Kit Assembly: The fender assembly is fitted to the trailer frame and provides a platform work area for personnel.
- Personnel Platform: A retractable platform is mounted at the rear of the trailer frame and provides a platform work area for personnel.
- k. Hand Brake Levers: The two hand brake levers were moved from under the trailer frame and mounted on the front steps of the fender assembly.
- l. Cable Reel: Stores the control cables and parallel cables of the PU 794/G during movement or storage.
- m. Junction Box: Provides a common junction for power and control of two power units when operating in parallel.
- n. Battery Box: External battery box relocates the batteries for easier operator maintenance.

o. Remote Control Unit: Furnished for remote control operations. Will start, stop and parallel two PU 794/G's. The panel indicates set running, contactor closed, low fuel and phase synchronization for paralleling.

p. Cable Tray: Stores the power and ground cables when not in use.

#### 1-10. Tabulated Data

a. Generator Set. Refer to TM5-6115-464-12 and TM5-6115-464-34 technical manuals for additional information concerning Generator Set, DOD Model MEP-004A.

##### ENGINE

Manufacturer	White Engines, Inc. Hercules Engine Division
Model DOD Drawing Number	D198-ERX51 72-2222
Type	4 cylinder, 4 cycle, liquid-cooled diesel
Rated Horse- power	41 continuous @ 1800 rpm
Cooling System Capacity	18.6 quarts (22.2 liters)
Crankcase Capacity	8.0 quarts (7.6 liters)
Fuel Tank Capacity	15.0 gallons (56.7 liters)
Electrical System	24 VDC, negative ground

##### GENERATOR

Manufacturer	Electric Machinery Company
DOD Drawing Number	72-2400
Type	Rotating field, synchronous, Brushless
Load Capacity	(1800 rpm) 20 kW @ 60 Hz
Current Rating	(1800 rpm) 69.4 amps @ 120/208 VAC, 3ph.
Power Factor	0.8

b. Trailer. The trailer is a modified M200A1, 2 1/2 ton, 2-wheel trailer.

Towing Facilities	Lunette
Towing Vehicle	5-ton 6x6
Brakes	Air over hydraulic
Handbrakes	Mechanical, hand lever controlled
Tires	Pneumatic, normal use 35 psi (3.16 kg/sq cm). In mud, snow and sand use 15 psi (1.06 kg/sq cm).
Voltage (lighting)	24 VDC

c. PU 794/G Figure 1-3 shows the data plates identifying the PU 794/G.

Length	181 inches (459.74 cm)
Width	97 inches (246.34 cm)
Height	98 inches (248.92 cm)
Weight	6440 lbs (2921.18 kg)

Operating Range

-10°F to 110°F (-24°C to 43°C) at sea level  
 -10°F to 95°F (-24°C to 35°C) up to 3000 feet (914.4 M)  
 Maximum 150 (26 percent) slope from the level in any direction

Section III. PRINCIPLES OF OPERATION

1-11. Principles of Operation

The PU 794/G provides 20 kW, 60 Hz precise power. It is noise suppressed and EMP protected. It is designed to be operated and paralleled remotely from a distance up to 100 feet (30.48 M). The

trailer can be towed over prepared roads at a maximum speed of 55 mph (88.5 km/h), and over unimproved roads at a maximum speed of 30 mph (48.3 km/h). It will ford hard-bottom water crossings to any depth that can be negotiated by the towing vehicle.

Section IV. SERVICE UPON RECEIPT

1-12. Unpacking/Uncrating the PU 794/G

- a. Remove the packing list from the right front side of the crate and set aside.
- b. Using metal cutters, cut the band from around the crate.
- c. Remove the crate from the top of the generator set.
- d. Cut the barrier paper along the base of generator set.
- e. Remove the barrier paper and desiccant bags.
- f. Remove the mounting bolts that mount the generator to the trailer.

g. Lift the generator and remove the plywood shipping base from the trailer.

h. Set the generator back on the trailer and reinstall the mounting bolts.

i. Remove the packing material from the battery box, cable tray, accessory box, and the document box compartment.

j. Remove the bands and plywood cap from the cable reels.

k. Use the packing list and inventory the accessories. Report any discrepancies to your supervisor.

l. Remove all packing/cushioning material from the cables and tools.

<b>US ARMY</b>					
<b>POWER UNIT, 20KW, 60 HZ</b>					
MODEL	PU-794/G	NSN	6115-01-242-1665		
SER NO.		REG NO.			
TM TO		NAV FAC			
		TM			
DRY WT	6440 LB	LG	181 IN	W	97 IN
				HGT	98 IN
DATE MFD			CONTR NO.		
WARRANTY	MO	DATE INSP			
MFD BY			INSP	STAMP	

<b>KILOWATT CAPACITY</b>		
<b>KW</b>	<b>ALTITUDE</b>	<b>TEMP</b>
20	SEA LEVEL (760.0MM HG)	110°F (43.3°C)
20	3000 FEET (681.0MM HG)	95°F (35.0°C)
HERTZ RATING	60	
<b>RATED VOLTAGES AND PHASES</b>		
120/208V-60 HZ, 3 PH		
<b>VOLTAGE ADJUSTMENT RANGES</b>		
197/240V 60 HZ, 3PH		
POWER FACTOR	0.8	

Figure 1-3. Identification Plates

### 1-13. Inspecting and Servicing PU 794/G

#### a. Inspection

(1) Make a complete visual inspection of the exterior of the PU 794/G for evidence of damage.

(2) Open the control panel access doors and inspect the control panel for damage.

(3) Open the generator compartment access doors and inspect each component for obvious signs of damage and corrosion.

(4) Open the engine compartment access doors and inspect the engine and its components for visible damage.

(5) Inspect the air cleaner assembly and exhaust openings for any obstruction.

(6) Open the battery box cover and inspect the batteries for damage.

#### b. Servicing

(1) Remove the depreservation guide from the document box. The depreservation guide explains what was done to the equipment prior to packaging and a brief description of what has to be done to place the unit into operation. Perform services as required by the depreservation guide.

(2) Remove the batteries from the battery box. Refer to TM 9-6140-200-14 to activate the dry charge batteries. Install the batteries.

(3) Perform the before operation preventive maintenance checks and services listed in chapter 2.

(4) Refer to TM 5-6115-464-12 and flush the cooling system.

### 1-14. Installation.

#### a. PU 794/G.

(1) Position the PU 794/G on as level surface as possible, not to exceed 15° (26 percent) slope.

#### **WARNING**

Prior to separating the PU-794/G from the prime mover open the accessory box and remove the ground rod sections, slide hammer rod, and the ground wire assembly. The accessory box cannot be accessed when the curbside handbrake is engaged. Failure to do so may result in serious injury or equipment damage.

#### **WARNING**

To gain entry to the accessory box the curbside handbrake must be disengaged. Be sure the wheels are blocked and leg supports down before disengaging the handbrake. When finished using the accessory box be sure curbside handbrake is engaged. Failure to observe this warning may result in serious personal injury or damage to equipment.

#### **WARNING**

Wheels must be blocked, brakes set and leg supports down in support position before operating the equipment. Failure to do so may result in serious injury.

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

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

b. External Fuel Line Connections. When the PU 794/G is to be operated for long intervals, frequent refilling of the fuel tank can be eliminated by obtaining fuel from an external source (such as a 55 gallon diesel fuel drum). Refer to TM 5-6115-464-12.

**TM5-6115-634-14&P**  
**NAVFAC P-5-647-14&P**  
**TO-35C2-3-445-14**

(1) Connect one end of the auxiliary fuel line to the PU 794/G auxiliary fuel supply connection located below the integral tank filler cap (Figure 1-4).

(2) Connect other end of the auxiliary fuel line to the auxiliary fuel source.

(3) Position the fuel selector valve in the AUXILIARY position (figure 1-4).



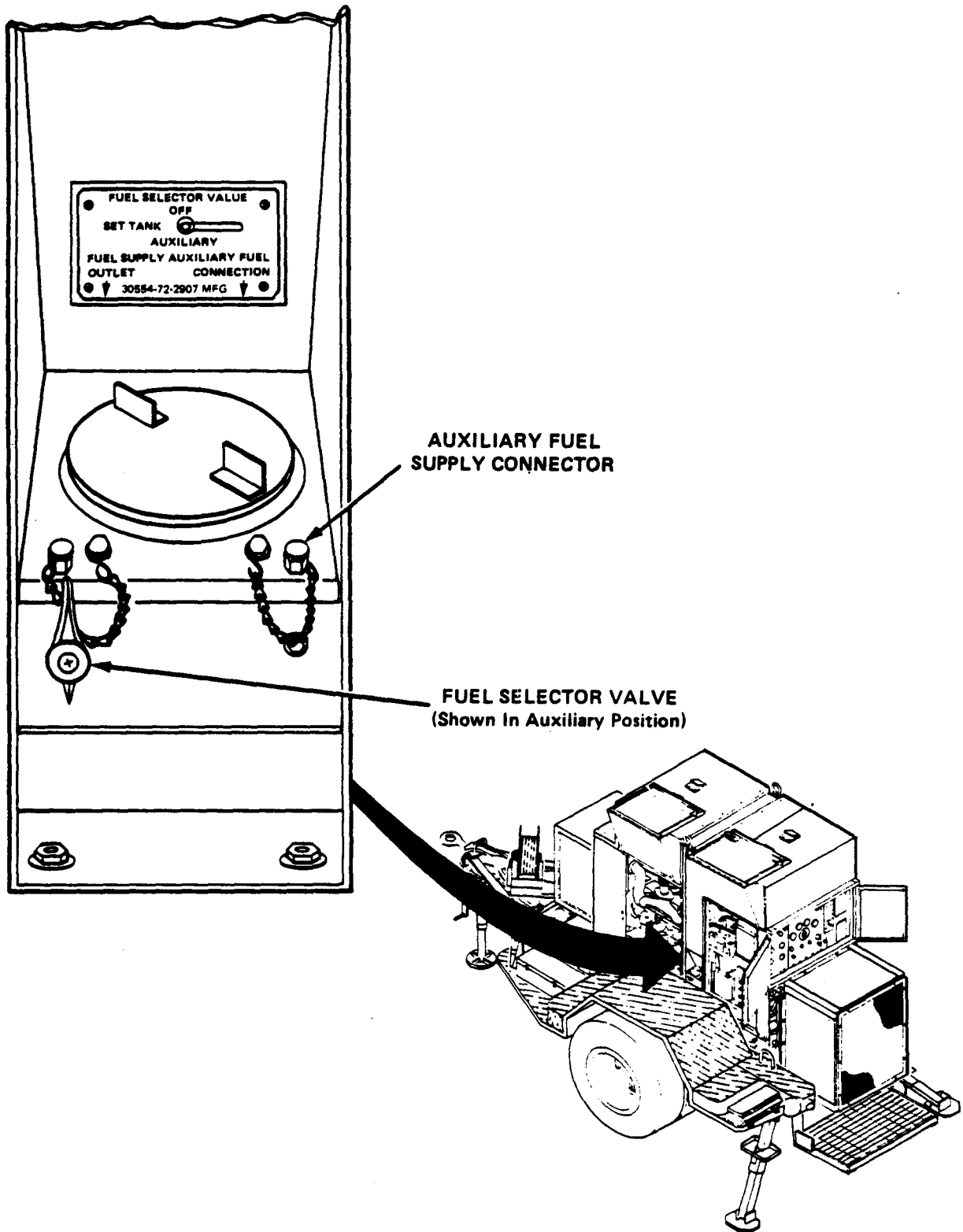


Figure 1-4. External Line Connections



CHAPTER 2

OPERATION/INSTRUCTIONS

CHAPTER INDEX

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Operator Controls and Indicators	2-1
Preventive Maintenance Checks and Services (PMCS)	2-1
Operation Under Usual Conditions	2-10
Operation Under Unusual Conditions	2-18

Section I. DESCRIPTION AND USE OF OPERATOR CONTROLS AND INDICATORS

2-1. Operator Controls and Indicators

a. Generator Set. Refer to TM-6115-464-12 for operator controls and indicators for the generator set.

b. Trailer. Refer to TM9-2330-205-14&P for operator controls and indicators for the M200A1 trailer.

c. PU 794/G

(1) Figure 2-1 shows the location of power and control connections for the junction box.

(2) Figure 2-2 shows the controls and indicators of the remote control unit.

- LOW FUEL - Lights when the fuel level drops below 1/4 tank.
- SYN LIGHT - Synchronizing lights indicate when the two power units are in phase with one another.

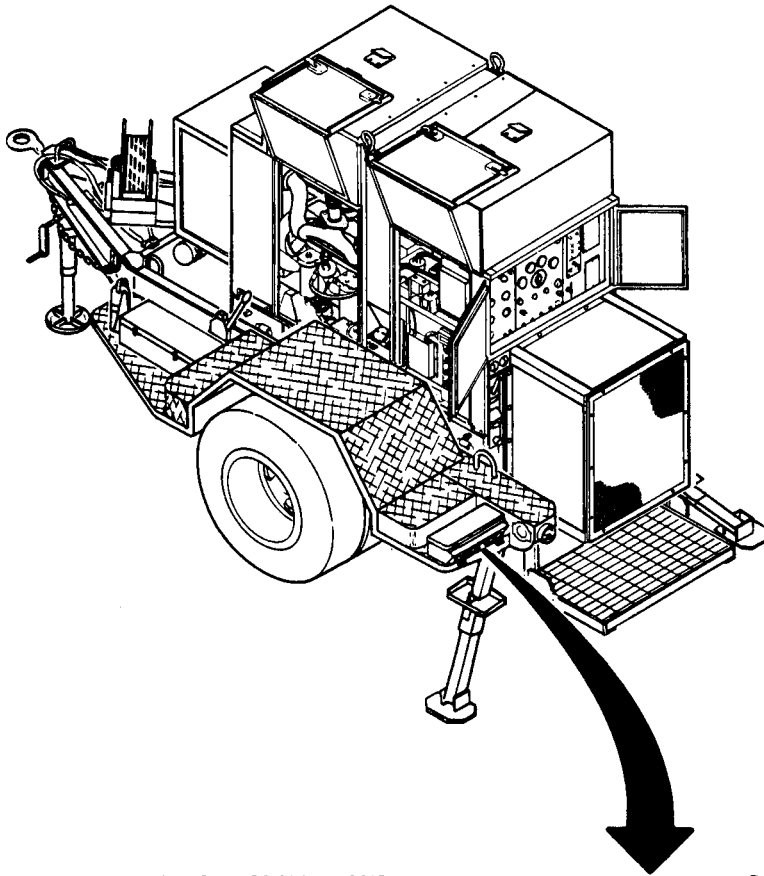
- ENG RUNNING - Lights when the engine has attained running speed.
- CONTACTOR CLOSED - Indicates that the output contactor of the power unit is closed.
- FREQ ADJUST - Adjusts the frequency of the respective sets for parallel operation.
- ENGINE: START, STOP - Starts and stops the engine.
- CONTACTOR: OPEN, CLOSE - Opens and closes the main load contactor.
- BATTLE SHORT: ON, OFF - Permits emergency operation by bypassing the protective circuits except short circuit and over speed.

Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

2-2. Operator Preventive Maintenance Checks and Services (PMCS)

a. To ensure that the PU 794/G is ready for operation at all times, it must be inspected systematically so that defects may be discovered and corrected before they result in serious damage or failure. Deficiencies discovered during

operation of the unit shall be noted for future correction, to be made as soon as operation has ceased. Stop operation immediately if a deficiency is noted during operation which would damage the equipment. All deficiencies and shortcomings shall be recorded together with the corrective action on the applicable form at the earliest possible opportunity.



**CONTROL CONNECTIONS**

**POWER CONNECTIONS**

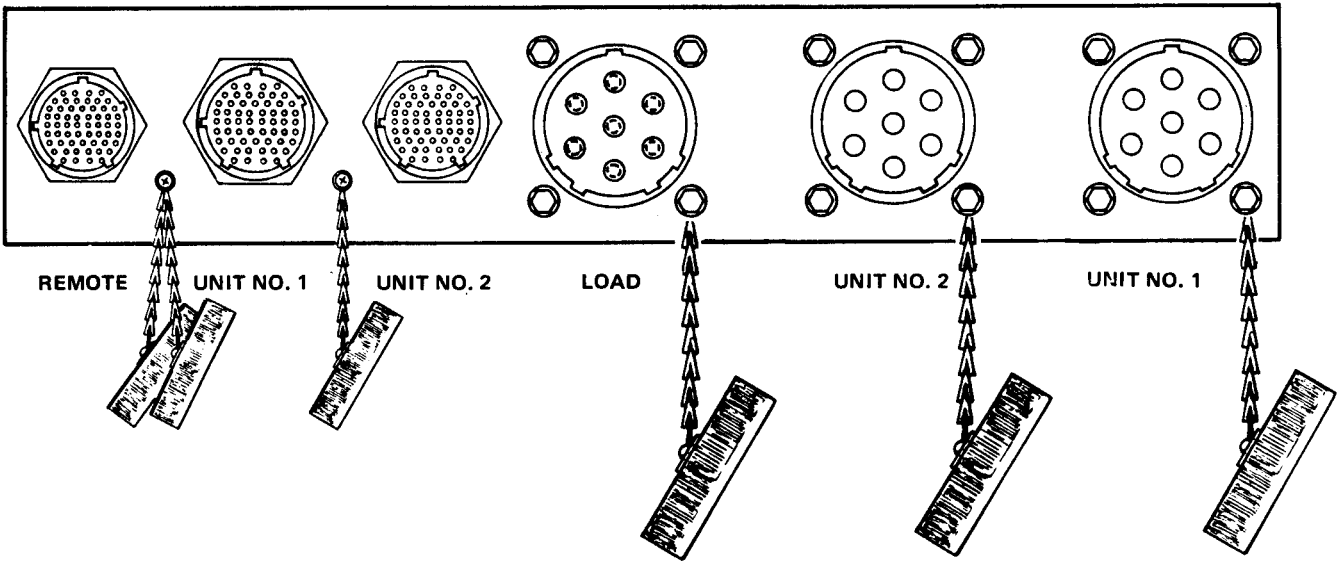
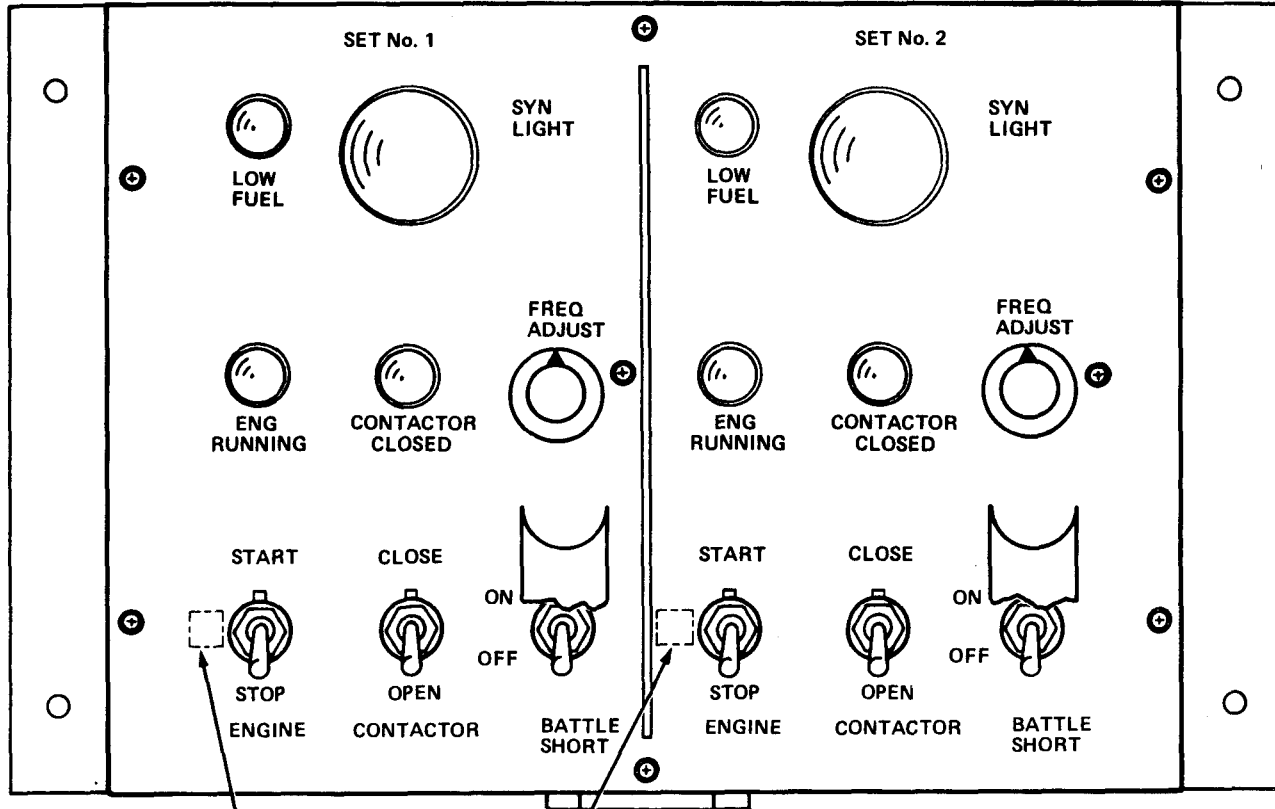


Figure 2-1. Junction Box Connections



"RUN" POSITION - NOT LABELED ON  
 REMOTE CONTROL UNIT

Figure 2-2. Remote Control Unit Controls and Indicators

nity. Army and Navy users shall accomplish the necessary preventive maintenance services listed and described in paragraph 2-2.b. Air Force users shall refer to the applicable inspection manuals and work card sets in the TO-35C2-3 Series for periodic requirements and Table 2-1 for detailed procedures. Marine Corps users should refer to the current issue of TM-11275-15/3A.

b. Table 2-1 contains a tabulated listing of preventive maintenance checks and services which must be performed before, during, and after operation by the operator. The item numbers are listed consecutively and indicate the sequence of minimum requirements.

c. Perform the checks and services in Table 2-1 at the specified intervals. Keep in mind the following:

(1) Do your "Before (B)" PMCS before operating the PU 794/G. Pay attention to the notes, cautions and warnings.

(2) Do your "During (D)" PMCS while the PU 794/G is operating. "Dur-

ing" means to monitor the generator, trailer and power distribution unit and related parts.

(3) Do your "After (A)" PMCS immediately after shutting down operation. Pay attention to notes, cautions and warnings.

(4) Leakage definitions for operator/crew PMCS shall be classified as follows:

Class I Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.

Class II Leakage of fluid great enough to form drops but not enough to cause drops to drip from item being checked/inspected.

Class III Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

TABLE 2-1. OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES

ITEM NO.	INTERVAL			B-BEFORE OPERATION D-DURING OPERATION	A-AFTER OPERATION	EQUIPMENT IS NOT READY/AVALIABLE IF:
	B	D	A	ITEM TO BE INSPECTED	PROCEDURES: CHECK FOR AND HAVE REPAIRED OR ADJUSTED AS NECESSARY	
1	●			PU 794/G	Visually inspect the PU 794/G for damaged or broken assemblies. Report all damage to higher level maintenance.	Parts are unserviceable.
2	●			Lunette, airhoses, intervehicular cable and safety chains	Inspect condition of lunette, airhoses, cable and chains.	

TABLE 2-1. OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES (CONT'D)

ITEM NO.	INTERVAL			B-BEFORE OPERATION D-DURING OPERATION	A-AFTER OPERATION	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	ITEM TO BE INSPECTED	PROCEDURES: CHECK FOR AND HAVE REPAIRED OR ADJUSTED AS NECESSARY	
3	•			Brakes	Inspect for evidence of fluid leaks at master cylinder, brake lines and backing plates.	Class III leakage is evident.
4	•			Air reservoir	Open draincock to drain reservoir and close when finished.	
5			•	Cable reel assembly	Inspect mounting. Ensure reel is functioning for cable storage.	Mounting screws loose.
6	•			Hand brakes	Inspect the operation and adjust.	
7				Battery Box Assembly	Inspect batteries, cables and mounting hardware.	
	•		•	a. Batteries	Inspect for cracks in casing or leaking electrolyte.	Battery case cracked or is leaking electrolyte.
	•		•		Inspect the electrolyte level. Level should be above the plates.	
	•		•		Inspect for corrosion on battery terminals.	
	•		•	b. Cables	Inspect for cuts or broken insulation.	Bare wires are exposed.
	•		•		Inspect for loose connections at terminals.	Terminals are loose or corroded.
	•		•	c. Mounting Hardware	Inspect for loose nuts on battery retainer.	
8	•			Exhaust baffle assembly	Inspect the exhaust baffles for any debris. Remove debris.	

TABLE 2-1. OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES (CONT'D)

ITEM NO.	INTERVAL			B-BEFORE OPERATION D-DURING OPERATION	A-AFTER OPERATION	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	ITEM TO BE INSPECTED	PROCEDURES: CHECK FOR AND HAVE REPAIRED OR ADJUSTED AS NECESSARY	
<b>NOTE</b>						
When operating with Class I or Class II leaks, continue to check fluid levels as required in your PMCS.						
9	•			Engine	Visually inspect the engine for fuel, oil, and coolant leaks.	Class I fuel or class III oil leakage is detected during inspection.
10	•		•	Engine oil and fuel levels	Check oil and fuel levels. Add oil and fuel as necessary.	
11	•			Primary fuel filter, primary fuel strainer, secondary fuel filter and day tank	Open to drain water and sediment until fuel runs clear.	
12	•			Engine V, Belt	Inspect for worn, frayed, cracked or oil soaked belt.	Belt worn, frayed, cracked, oil soaked or missing.
13	•			Wheels	Inspect for missing or loose wheel lugnuts.	Lugnuts loose or missing.
14	•			Tires	Inspect for excessive wear and damage. Gage and inflate to 35 PSI (241 kPa).	Tires are unserviceable.
15	•			5 ft. power and control cables	Inspect for broken, or damaged connectors. Inspect for cuts or broken insulation. Inspect for loose connections at the generator connector plate and junction box.	Connector will not tighten, is damaged or is missing parts. Bare wires are exposed.



TABLE 2-1. OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES (CONT'D)

ITEM NO.	INTERVAL			B-BEFORE OPERATION D-DURING OPERATION	A-AFTER OPERATION	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	ITEM TO BE INSPECTED	PROCEDURES: CHECK FOR AND HAVE REPAIRED OR ADJUSTED AS NECESSARY	
16	●			100 ft. control cable	Inspect for broken or damaged connectors. Inspect for cuts or broken insulation. Inspect for loose connections at the junction box and the remote load connection.	Connector will not tighten, is damaged, or is missing parts. Bare wires are exposed.
17	●			25 ft. paralleling cable	Inspect for broken or damaged connectors. Inspect for cuts or broken insulation. Inspect for loose connections at generator connector plates.	Connector will not tighten, is damaged, or is missing parts. Bare wires are exposed.
18	●			25 ft. power and control cables	Inspect for broken or damaged connectors. Inspect for cuts or broken insulations. Inspect for loose connections at the junction box and generator connector plate.	Connector will not tighten, is damaged, or is missing parts. Bare wires are exposed.
19	●			Ground wires	Inspect for broken, loose or damaged wire connections at generator connector plates and ground.	Connection(s) will not tighten.
20	●		●	Intake baffles	Inspect the intake baffle grid for any debris. Remove debris.	
21	●			Landing leg and step jack	Inspect condition of landing leg and step jacks.	Indication a leg might collapse.
22	●			Lights and reflectors	Inspect for missing or damaged components.	Lights or reflectors damaged or missing.
23	●			BATTLE SHORT, CKT BKR and AIR CLEANER CONDITION lights and and FAULT INDICATOR panel.	With DC control power circuit breaker in and START/RUN/STOP switch in RUN position, press to test BATTLESHORT, CKT BKR and AIR CLEANER CONDITION lights.	Lights do not illuminate when pressed.

TABLE 2-1. OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES (CONT'D)

ITEM NO.	INTERVAL			ITEM TO BE INSPECTED	PROCEDURES: CHECK FOR AND HAVE REPAIRED OR ADJUSTED AS NECESSARY	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B-BEFORE OPERATION	D-DURING OPERATION	A-AFTER OPERATION			
				<b>NOTE</b>		
				On precision generator sets the LOW OIL PRESS, UNDER VOLT and UNDER FREQ indicator lights will illuminate.		
24		•		ENGINE control panel	Test bulb operation on FAULT INDICATOR panel with TEST or RESET switch.	Any bulb fails to illuminate. All bulbs should be lit when switch is in TEST or RESET position.
		•		a. Instruments	Inspect meters and light for indications within specified limits.	
		•		b. AIR CLEANER CONDITION indicator	Inspect for broken or missing lens on all instruments.	
		•		c. OIL PRESSURE gage	Lights up to indicate a clogged air cleaner. Press-to-test.	Light remains on during operation.
		•		d. COOLANT TEMPERATURE gage	Normal indication 30 psi (206.84 kPa) to 55 psi (379.21 kPa).	Pressure below 30 psi (206.84 kPa).
		•		e. FUEL LEVEL gage	Normal indication 170°F to 200°F.	Temperature exceeds 200°F (92.5°C).
		•		f. BATTERY CHG AMMETER	Indicates quantity of fuel in main tank.	
		•			Normal indication 0 amps to +20 amps, depending on battery charging rate. Should read in green portion of scale during normal operation.	Ammeter does not indicate charging current.

TABLE 2-1. OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES (CONT' D)

ITEM NO.	INTERVAL			B-BEFORE OPERATION D-DURING OPERATION	A-AFTER OPERATION	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	ITEM TO BE INSPECTED	PROCEDURES: CHECK FOR AND HAVE REPAIRED OR ADJUSTED AS NECESSARY	
25		●		GENERATOR control panel	Inspect meters and lights for indications within specified limits.	
		●		a. Instruments	Inspect for broken or missing lens on all instruments.	
		●		b. HERTZ ( Frequency) meter	Reads between 58 Hz and 62 Hz.	Frequency cannot be properly adjusted.
		●		c. PERCENT POWER meter	Indicates applied load. Not to exceed 100 percent.	
		●		d. PERCENT RATED CURRENT (A.C.) ammeter	Indicates percentage of rated current Not to exceed 100 percent.	No indication when load is applied.
		●		e. VOLTS A.C. meter	Indicates 120/208 VAC.	Voltage cannot be properly adjusted.
26		●		FAULT INDICATOR panel	All lights out during operation. Test bulb operation with TEST OR RESET switch on panel.	Fault light will not extinguish when switch is placed to TEST OR RESET position, then released. All bulbs should be lit when switch is in TEST OR RESET position.
27		●		Brakes	Test for proper operation.	Brakes will not hold.
28		●		Suspension load.	Listen for unusual noise.  Inspect for defective suspension or shifting load.	

TABLE 2-1. OPERATOR/CREW PREVENTIVE MAINTENANCE CHECKS AND SERVICES (CON'D)

ITEM NO	INTERVAL			B-BEFORE OPERATION D-DURING OPERATION	A-AFTER OPERATION * - Monthly	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	ITEM TO BE INSPECTED	PROCEDURES; CHECK FOR AND HAVE REPAIRED OR ADJUSTED AS NECESSARY	
29	●			Frame and suspension	Inspect frame and suspension for damage.	
30	*			Fire Extinguisher	Inspect and weigh fire extinguisher (see paragraph 3-5).	
31	●			Cooling system	Check coolant level. Proper level is 2 inches below the overflow pipe. Add coolant as required.	

Section III. OPERATION UNDER USUAL CONDITION

**2-3. Preparation for Use**

a. Grounding the PU 794/G

(1) Position the PU 794/G on as level a surface as possible, not to exceed 15° (26 percent) slope.

**WARNING**

Prior to separating the PU-794/G from the prime mover open the accessory box and remove the ground rod sections, slide hammer rod, and the ground wire assembly. The accessory box cannot be accessed when the curbside handbrake is engaged. Failure to do so may result in serious injury or equipment damage.

**WARNING**

To gain entry to the accessory box the curbside handbrake must be disengaged. Be sure the wheels are

blocked and leg supports down before disengaging the handbrake. When finished using the accessory box be sure curbside handbrake is engaged. Failure to observe this warning may result in serious personal injury or damage to equipment.

**WARNING**

Do not operate the PU 794/G until it has been connected to a suitable ground. Serious injury or death by electrocution may result from operating an ungrounded PU 794/G.

(2) Ground Connections. The PU 794/G may be grounded to underground metallic water pipes, a driven metal rod or a buried metal plate. A ground rod must have a minimum diameter of 5/8 inch (1.58 cm), if solid, or 3/4 inch (1.90 cm), if pipe, and must be driven to a minimum depth of 8 feet (2.44 M). Saturate the area around the rod with salt water. A ground plate must have a minimum area of 9 square feet (0.836 sq M) and be buried to a

minimum depth of 4 feet (1.22 M). The ground lead must be at least No. 4 AWG copper wire. Refer to "Operating Under Unusual Conditions" for ground connections during mobile operation.

**WARNING**

Wheels must be blocked, brakes set and leg supports down in support position before operating the equipment. Failure to do so may result in serious injury.

(3) Release curbside handbrake. Remove ground rod section, the slide hammer rod and the ground wire assembly from the accessory box. Remove the slide hammer from the front of the trailer.

(4) Ground the PU 794/G.

(a) Connect ground wire assemblies to the ground stud on the connector plate of each generator set. Select a spot on the ground between trailers to install the ground rod.



**WARNING**

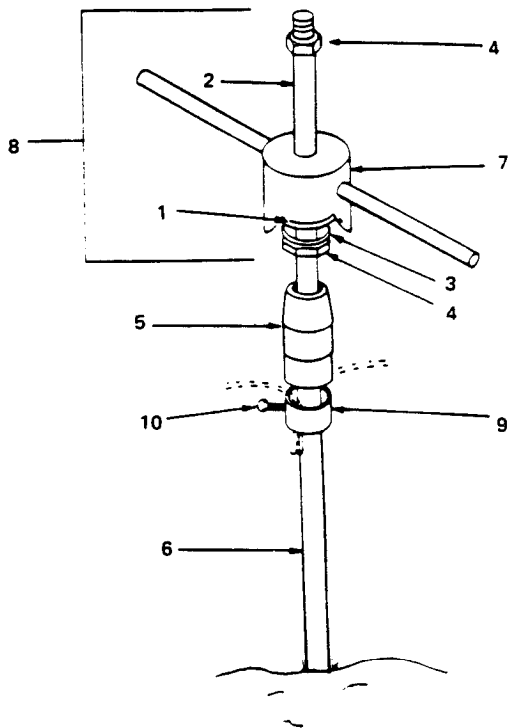
Nuts must be tight on the slide hammer rod. Loose hardware may result in serious injury.

**CAUTION**

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

**NOTE**

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



(b) Connect the slide hammer striker plate (1) to bottom of the slide hammer rod (2). Tighten to the end of threads. Connect lockwasher (3) and nut (4) to bottom of the slide hammer rod

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

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

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

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

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

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

(h) Store the slide hammer assembly (8) and unused ground rod in the accessory box. Reset curbside hand-brake. Secure the slide hammer to the steel bar on front of the trailer with lock pin.

(i) Connect a damp (9) to top of the ground rod and reconnect the ground rod coupler (5). Connect loose end of the ground wire assembly to the damp. Tighten the damp screw (10). Ensure that all ground wire connections are tight.

b. Cable Connections for a single PU 794/G

**WARNING**

When making cable connections, PU 794/6 must be shut down. Failure to observe this warning could result in death by electrocution.

(1) Remove all the cables from the reel and tray.

(2) Connect the 5-foot (1.52 meters) control cable between the control connector on the connector plate and the control connection on the junction box for unit 1 (Figure 2-3).

(3) Connect the 100-foot (30.46 meters) control cable to the remote connector on the junction box. Connect the other end of the control cable to the control cable connection on the front of the shelter (Figures 2-3 and 2-4).

(4) Connect one end of the power cable to the power connector on the generator (not on the junction box), and the other end of the power cable to the connector on the shelter.

**WARNING**

All pins are live on the junction box power connectors.

**WARNING**

Power connections on the junction box should not be used for single unit operation.

All connectors are hot when used. Do not remove caps from unused hocks.

(5) Deleted.

c. Cable Connections for two PU 794/Gs.

**NOTE**

Two PU 794's are not to be continuously operated in parallel, only to transfer power.

**WARNING**

When making cable connections, both PU 794/Gs must be shut down due to feedback from and operating unit. Failure to observe this warning could result in death by electrocution.

(1) Connect the first PU 794/G following paragraph b. above. Designate this unit as unit number 1. All connections to the junction box will be made at this unit.

(2) Connect the grounding wire of the second PU 794/G to the ground rod of the first PU 794/G.

(3) Connect the 25-foot (7.62 meters) control cable from the control connector on the connector plate of unit 2 to the unit 2 control connection of the junction box on unit 1 (Figure 2-5).

(4) Connect the 25-foot (7.62 meters) power cable between the power connector on the connector plate of unit 2 and the unit 2 power connection of the junction box on unit 1 (Figure 2-5).

(5) Connect the 25-foot (7.62 meters) parallel cable to the parallel connectors on both unit 1 and unit 2 (Figures 2-3 and 2-5).

(6) At both generator sets place the PARALLEL OPERATION/SINGLE UNIT OPERATION switch on the generator control panel to the PARALLEL OPERATION position.

**2-4. Initial Adjustments**

Perform the PMCS in Table 2-1 before operating the PU 794/G.



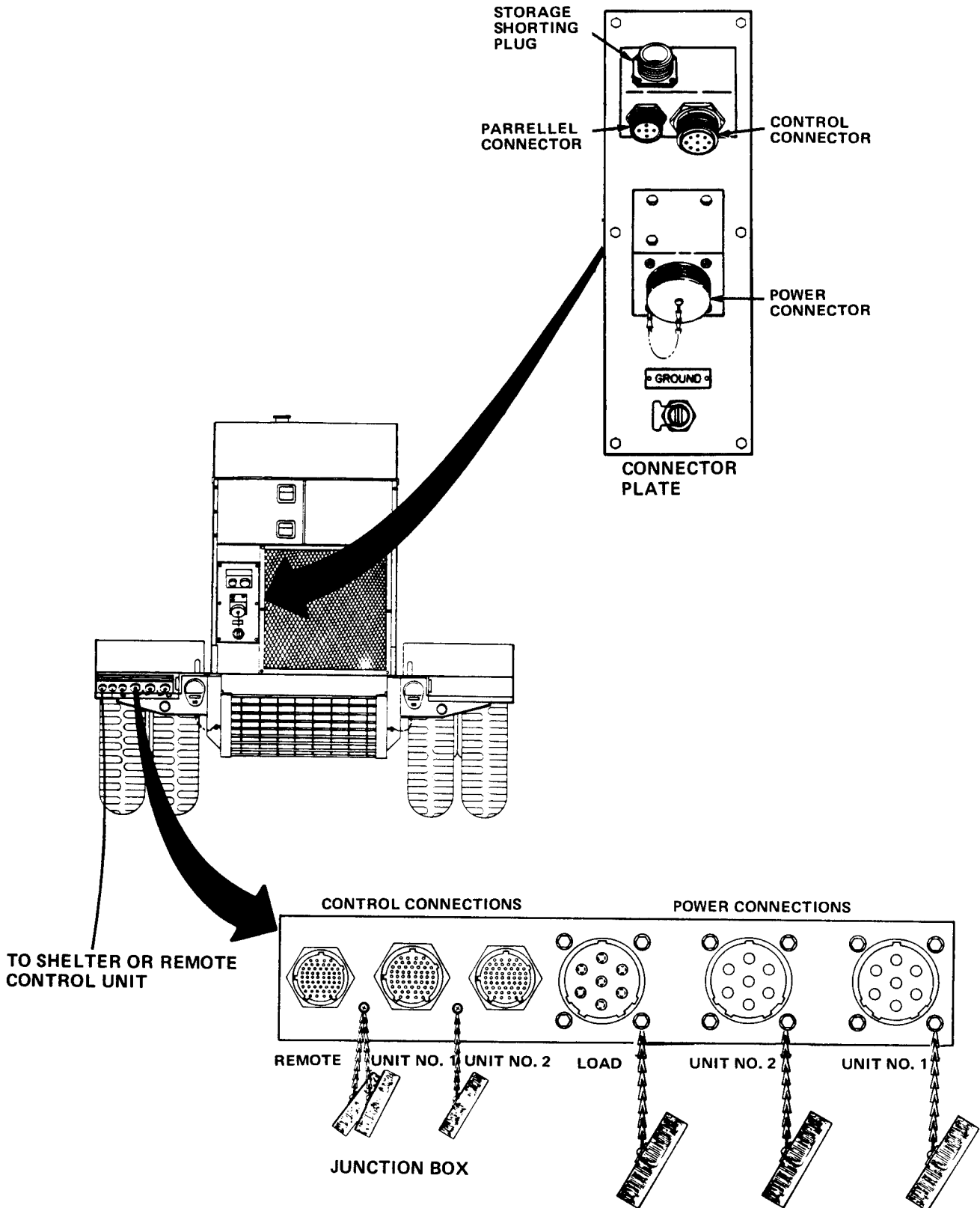
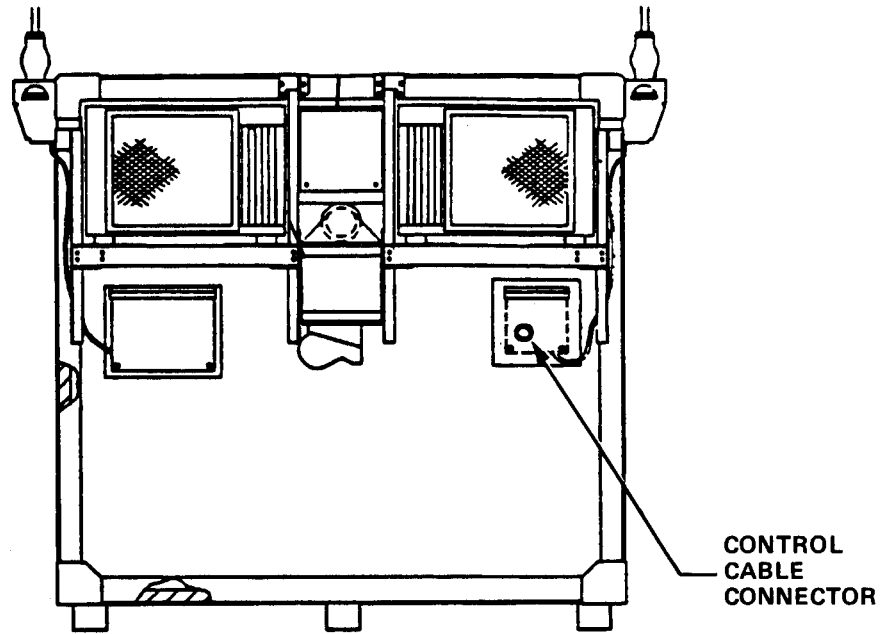
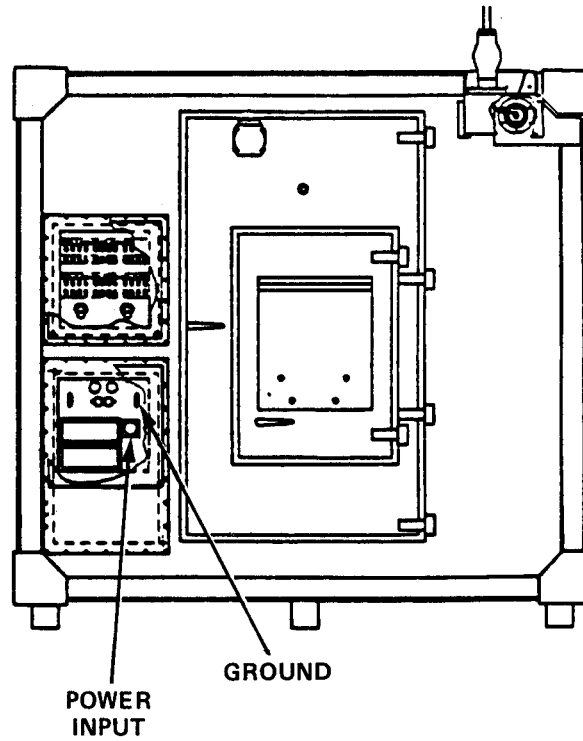


Figure 2-3. Cable Connections Locations - PU 794/G



FRONT (OUTSIDE) VIEW



REAR (OUTSIDE) VIEW

Figure 2-4. Cable Connections Locations - Shelter

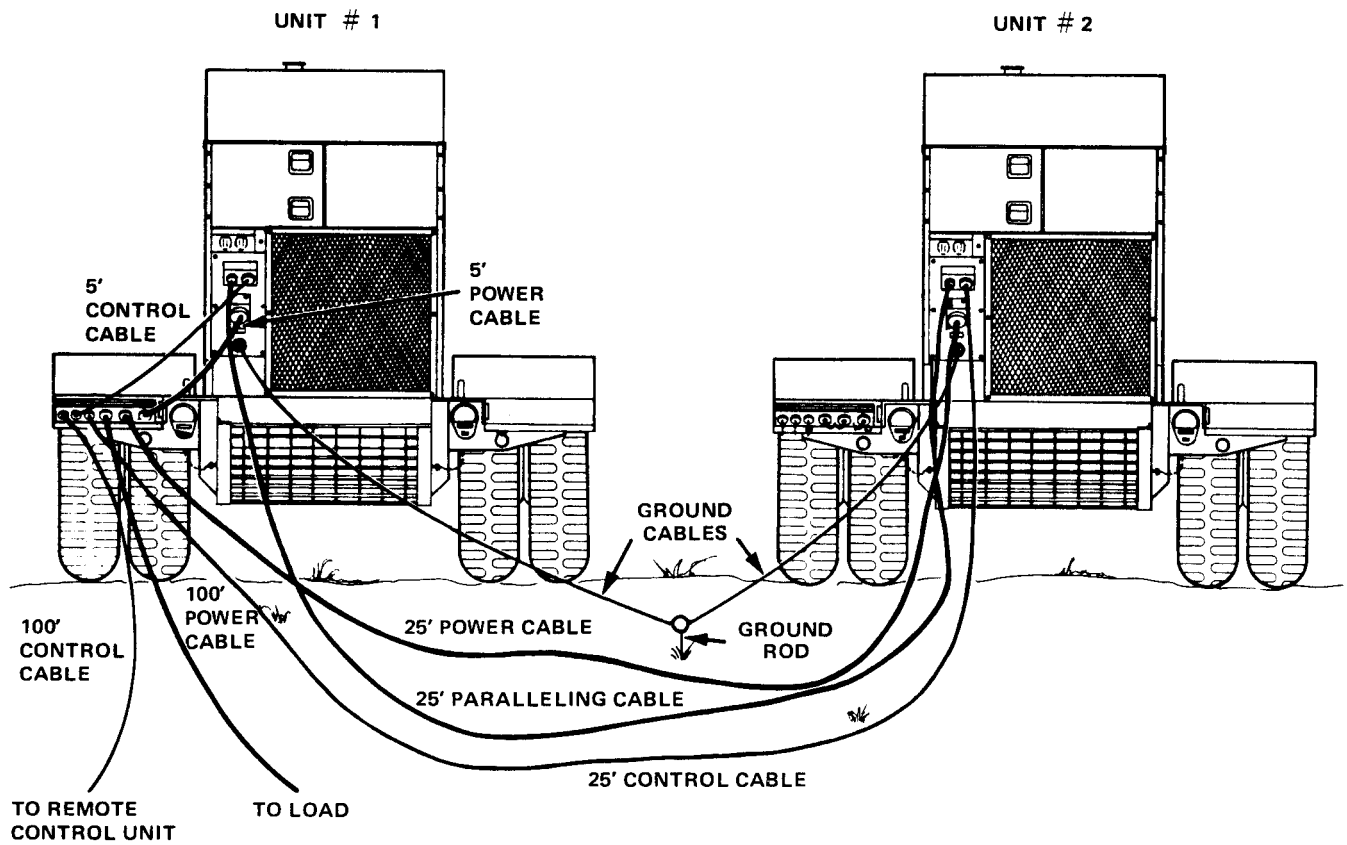


Figure 2-5. Cable Connection for Two PU 794/G's

## 2-5. Single Unit Operating Procedures

### a. Starting the PU 794/G From the Remote Control Unit

- (1) Perform before operation PMCS.
- (2) Ensure the PU 794/G has been cabled for single unit operation according to paragraph 2-3. b.
- (3) Using the remote control unit for SET No. 1 (Figure 2-2), place the ENGINE switch in the START position and hold until the ENG RUNNING light is illuminated for five seconds. Release the switch.

#### NOTE

If the ENG RUNNING light does not illuminate in 15 seconds, place the ENGINE switch in the STOP position. Wait at least 15 seconds before attempting to start again. Attempt to two more times. If the unit fails to start, refer to troubleshooting procedures.

#### NOTE

When the PARALLEL OPERATION/ SINGLE UNIT OPERATION switch is in the PARALLEL OPERATION position, hold the BATTLE SHORT switch in the ON position until the CONTACTOR CLOSED light illuminates.

- (4) Hold the CONTACTOR switch in the CLOSE position until the CONTACTOR CLOSED light illuminates. Release the switch.
- (5) Frequency can be adjusted by using the FREQ ADJUST control on the remote control unit while another person is watching the frequency meter on the power unit.

### b. Stopping the PU 794/G From the Remote Control Unit.

- (1) Place the CONTACTOR switch in the OPEN position.

- (2) Allow the PU 794/G to operate for 3 minutes with no load applied.

- (3) Place the ENGINE switch in the STOP position.

- (4) Perform after operation PMCS.

### c. Starting-Operating-Stopping PU 794/U From the Generator Set Controls.

#### **WARNING**

Hearing protection is required when working in the area of the PU 794/G when engine is running with access doors open. Failure to do so could result in hearing loss.

- (1) Perform before operation PMCS.

- (2) Ensure PU 794/G has been cabled for single unit operation according to paragraph 2-3. b.

- (3) Remove one end of the 5-foot (1.52 meters) control cable from the control connector on the connector plate.

- (4) Remove the shorting plug from the storage shorting-connector on the connector plate.

- (5) Connect the shorting plug in the control connector on the connector plate.

- (6) Refer to the operating plate located on the inside of the generator control right door panel for starting-operating-stopping the PU 794/G.

- (7) After stopping generator, remove shorting plug from the control connector of the connector plate.

- (8) Install shorting plug in the storage shorting-connector on the connector plate.

- (9) Install free end of 5-foot (1.52 meters) control cable in the control connector of the connector plate.

(10) Perform after operation PMCS.

## 2-6. Remote Operation of Two Pu 794/G's.

Disregard the paralleling instructions on the inside of the control panel door.

a. Perform before operation PMCS.

b. Ensure the PU 794/G's have been cabled for two PU 794/Gs according to paragraph 2-3c.

c. Start PU 794/G unit 1 from the remote control unit according to paragraph 2-5.a. (2) through (4). Unit 1 is now supplying power for normal operation.

d. To transfer load, for maintenance, start PU 794/G unit 2 from the remote control unit as follows:

(1) Start PU 794/G unit 2 by placing the SET No. 2 ENGINE switch on the remote control unit in the START position and hold until the ENG RUNNING lamp lights.

(2) Turn the FREQ ADJUST control for SET No. 2 slowly until the SYN LIGHT changes intensity at 3 to 5 second intervals.

(3) Watch the light carefully. When the light achieves the dimmest point, move the CONTACTOR switch to the CLOSE position and hold until the CONTACTOR CLOSED lamp lights.

(4) The two PU 794/Gs are now sharing the load.

(1) Place the CONTACTOR switch of SET No. 1 in the OPEN position.

(2) Allow the PU 794/G unit 1 to operate without a load for 3 minutes.

(3) Place the ENGINE switch of SET No. 1 in the STOP position.

f. Perform after operation PMCS.

## 2-7. Preparation for Movement

### **WARNING**

Lethal voltages are present at the load connection board of the generator set during operation. Do not attempt to connect or disconnect load leads while the generator set is operating. Do not attempt to connect or disconnect load leads with the generator set shut down and the load connected to another power source, or while the generator set is paralleled to another unit which is operating. Serious injury or death by electrocution could result.

a. Disconnect the cables from the shelter, the junction box and the connector plate.

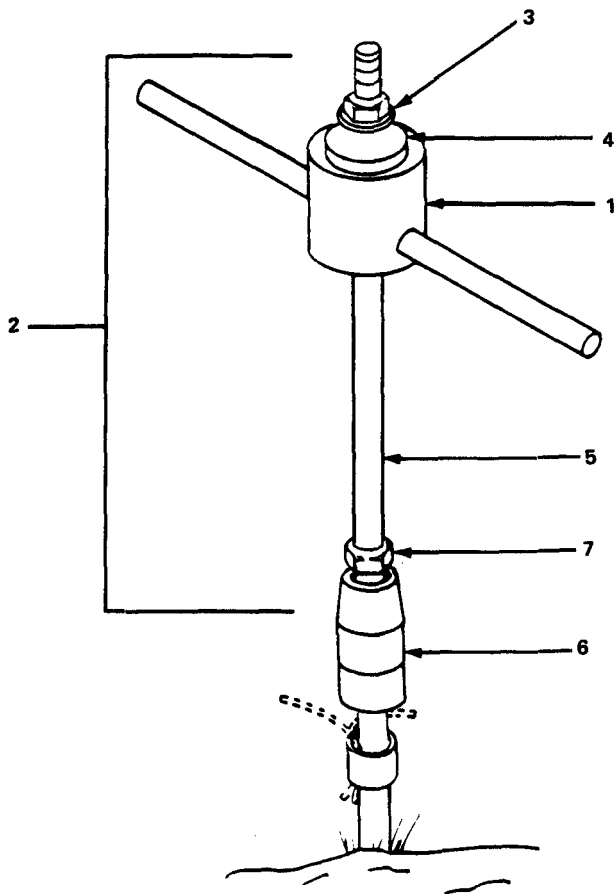
b. Disconnect the ground wire from the connector plate and ground rod.

c. Store the power cables and ground wire in the cable pan. Store the control cables and paralleling cable on the cable reel.

d. Remove the ground rod.

(1) Release the curbside hand-brake. Remove the slide hammer (1) from the front of the trailer. Remove the slide hammer assembly (2) from the accessory box.

(2) Remove the nut (3) from the slide hammer assembly and place slide hammer over the rod (5).



**WARNING**

Nuts must be tight on the slide hammer rod. Loose hardware may result in serious injury.

(3) Place the striker plate (4) on the slide hammer assembly and replace the nut (3) on the slide hammer rod.

(4) Connect the slide hammer assembly (2) and slide hammer with the striker plate at the top to the ground rod coupler (6).

(5) Use the slide hammer to lift the ground section from the ground.

(6) Disconnect the ground rod and remove nut (7).

(7) Remove the slide hammer from the slide hammer assembly and store it on the front of the trailer.

(8) Return the nut (7) to slide hammer assembly and store the assembly in the accessory box. Reset curbside handbrake.

Section IV. OPERATION UNDER UNUSUAL CONDITIONS

2-8. Mobile Operations

In mobile operations, the PU 794/G supplies power while being towed over the highway. The operation of the PU 794/G is the same as normal operation. Two units cannot be paralleled while in mobile operation. The equipment being powered must be grounded to the generator set of the PU 794/G. Care must be taken in the routing of the power, control and ground cables from the PU 794/G to the shelter to preclude damage while the vehicle is moving. To prepare for mobile operation connect the cables as follows:

a. Connect the ground cable to the GROUND stud on the connector plate (Figure 2-3).

b. Connect the 5-foot (1.52 meter) power cable between the power connector of the connector plate and unit 1 power connector on the junction box (Figure 2-3).

c. Connect the 25-foot (7.62 meter) power cable to the load connector of the junction box (Figure 2-3).

d. Remove the shorting plug and store in the storage shorting plug connector on the connector plate (Figure 2-3).

e. Connect the 5-foot (1.52 meter) control cable between the connector plate control connector and the unit 1 control connection on the junction box (Figure 2-3).

f. Connect the 100-foot (30.48 meter) control cable to the remote connector on the junction box (Figure 2-3).

g. Route the ground cable, power cable, and control cable along the side of the generator set toward the tongue of the trailer (Figure 2-6).

h. Fasten the cables to the trailer with the straps on the trailer frame (Figure 2-6).

i. Connect the cables to the respective connectors on the equipment to be used (Figure 2-4).

j. Tie or fasten the excess cable to the towing vehicle to allow turning and to prevent damage to the cable.

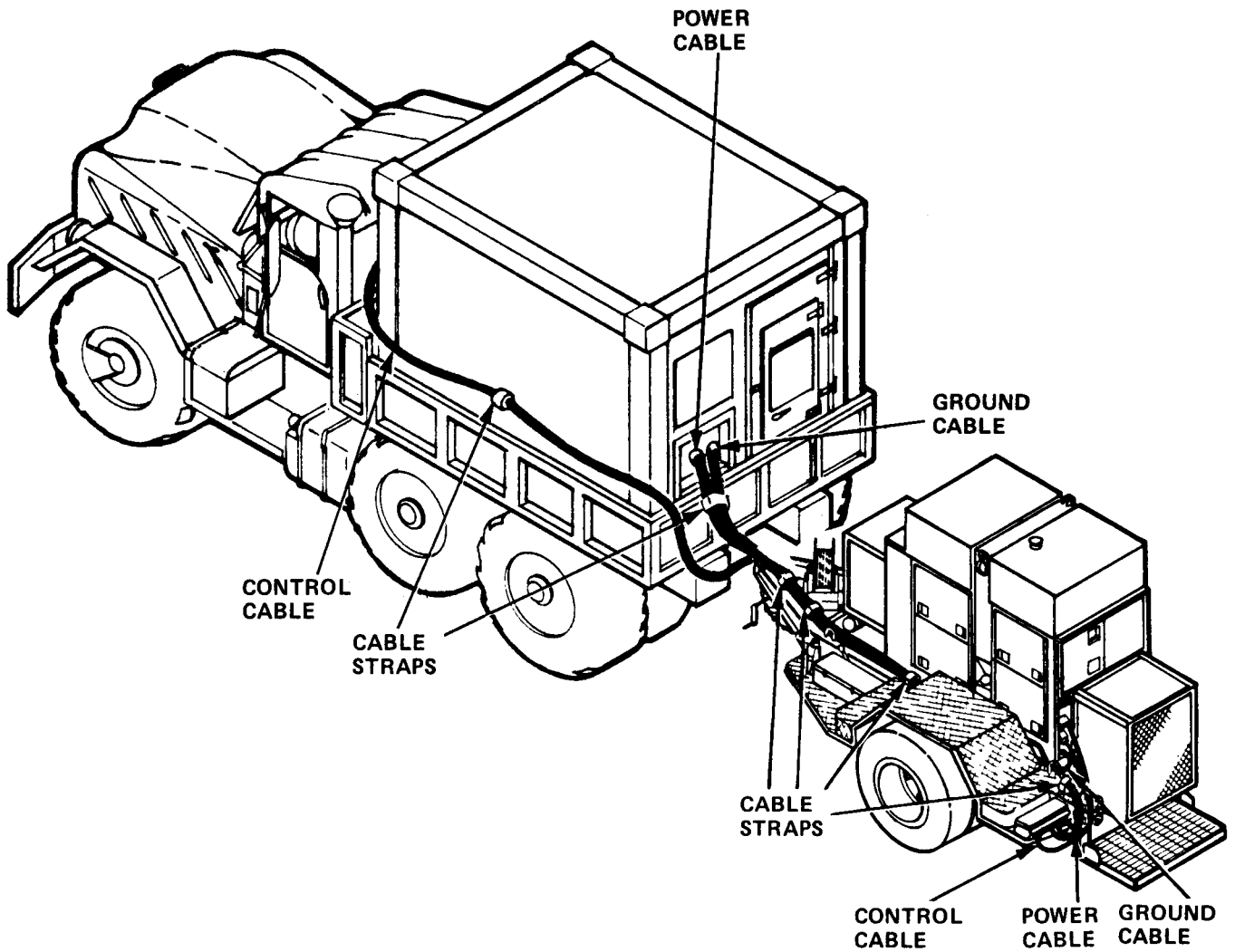


Figure 2-6. Cable Routing For Mobile Operation



CHAPTER 3

OPERATOR MAINTENANCE

CHAPTER INDEX

Subject Index	Page
Lubrication Instructions	3-1
Troubleshooting Procedures	3-1
Maintenance Procedures	3-3

Section I. LUBRICATION INSTRUCTIONS

3-1. Lubrication

The lubrication instructions for the generator set are contained in L05-6115-464-12. The lubrication instructions

for the trailer are contained in TM9-2330-205-14&P.

Section II. TROUBLESHOOTING PROCEDURES

3-2. Troubleshooting

Table 3-1 lists the common malfunctions that may occur during operation or maintenance of the PU 794/G or its components. Test/inspections and corrective actions should be performed in the order

in which they are listed. This manual cannot cover all possible malfunctions that may occur under the many conditions of operation. If a specific malfunction, test, or corrective action is not covered, notify your supervisor.

Table 3-1. TROUBLESHOOTING

---

MALFUNCTION	TESTOR INSPECTION	CORRECTIVE ACTION
<hr/>		
CANNOT OPERATE THE POWER UNIT FROM THE REMOTE CONTROL UNIT.		
	Step 1. Check control cable connectors for tightness.	
		Tighten connectors.
	Step 2. Check battery cables.	
		Report loose cables to unit maintenance.
	Step 3. Disconnect remote control cable and insert shorting plug. Start the generator set using GENERATOR set controls.	
		If generator starts, the remote control unit or cable is faulty. Report to unit maintenance.
		If generator does not start, refer to TM5-6115-464-12.

Section III. MAINTENANCE PROCEDURES

3-3. Operator Maintenance

The instructions in this section are published for the information and guidance of personnel operating the PU 794/G. Deficiencies noted during inspection which are beyond the maintenance scope of the operator shall be reported to higher level maintenance.

MAINTENANCE OF THE CABLE REEL ASSEMBLY

3-4 Service Cable Reel

---

This Task Covers: a. Inspection  
b. Service

---

Tools

Wire Brush

---

Inspection

Inspect the cable reel for damage, and missing hardware. Report any deficiency to organization maintenance.

Service

Clean the cable reel assembly using a wire brush.

INSPECTION OF FIRE EXTINGUISHER

3-5. Fire Extinguisher

---

This Task Covers: a. Inspection  
b. Weighing

---

Tools

Scale

---

Inspection

Inspect the fire extinguisher for damage and missing hardware. Report any deficiency to unit maintenance.

**TM5-6115-634-14&P**  
**NAVFAC P-8-647-14&P**  
**T0-35C2-3-445-14**  
**TM-6115-14&P/1**

Weighing

Weigh the fire extinguisher monthly to insure that it is sufficiently charged. Fully charged, the fire extinguisher weighs 7.75 pounds filled and 5.0 pounds empty.

CHAPTER 4

UNIT MAINTENANCE INSTRUCTIONS

CHAPTER INDEX

Subject Index	Page
Repair Parts, Special Tools, Test, Measurement, and Diagnostic Equipment (TMDE) and Support Equipment	4-1
Preventive Maintenance Checks and Services (PMCS)	4-1
Troubleshooting	4-5
Maintenance Procedures	4-7

4-1. Scope

Unit maintenance for the PU 794/G is described in Sections I through IV. For trailer maintenance instructions, refer to TM9-2330-205-14&P, and for the generator set, refer to TM5-6115-464-12.

Section I. REPAIR PARTS AND SPECIAL TOOLS, TEST, MEASUREMENT,  
 AND DIAGNOSTIC EQUIPMENT (TMDE) AND SUPPORT EQUIPMENT

4-2. Special Tools and Equipment

Special tools for the generator set are listed in TM5-6116-464-24P. Tools required to perform unit maintenance are listed in Appendix C of TM5-6115-464-12.

b. Special tools for the trailer are listed in TM9-2330-205-14&P.

c. For authorized common tools and equipment refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

b. Trailer repair parts are listed and illustrated in TM9-2330-205-14&P.

c. Repair parts are listed and illustrated in Appendix F (RPSTL) covering unit maintenance of the PU 794/G.

4-4. Fabricated Tools and Equipment

There is no requirement to fabricate tools for unit maintenance of the PU 794/G. Refer to Appendix G of this manual for the listing of tools and equipment required.

4-3. Repair Parts

Generator set repair parts are listed and illustrated in TM5-6115-464-24P.

Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

4-5. General PMCS

To insure that the PU 794/G is ready for operation at all times, it must be inspected systematically so that defects may be discovered and corrected before they result in serious damage or failure.

Deficiencies discovered during operation of the unit shall be noted for future correction, to be made as soon as operation has ceased. Stop operation immediately if a deficiency is noted during operation which would damage the equipment. All deficiencies and shortcomings

shall be recorded together with the corrective action on the applicable form at the earliest possible opportunity. Army and Navy users shall accomplish the necessary preventive maintenance services listed and described in paragraph 4-6. Air Force users shall refer to the applicable inspection manuals and work card sets in the TO-35C2-3 Series for periodic requirements and Table 4-1 for detailed procedures.

4.6. PMCS Procedures

Table 4-1 contains a tabulated listing of preventive maintenance checks and services which must be performed on the PU 794/G by unit maintenance personnel. Table 4-1 consists of five columns containing the following information:

a. Item Number. Checks and services are numbered in the order of performance. These numbers will be entered in the TM number column on DA Form 2404 when recording the results of PMCS.

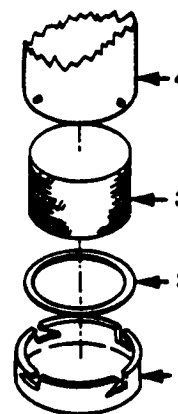
b. Interval. The interval columns are headed W, M, S, and A. Bullets indicate the proper check periods.

c. Item to be Inspected. Items listed in this column are divided into groups by the portion of equipment of which they are part. Item to be inspected will be identified by its common name.

d. Procedures. This column contains all information required to accomplish the checks and services.

Table 4-1. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES

ITEM NO.	INTERVAL				ITEM TO BE INSPECTED	PROCEDURES
	W	M	S	A		
1					DELETED	
2	•				Main fuel tank	Open drain plug and drain water and sediment until fuel runs clear.
3		•			Fuel pump strainers	Change every 100 hours. Remove cover (1) and gasket (2). Remove and discard strainer (3). Position new strainer in pump body (4) and secure with cover.
4		•			Generator set	Check entire unit for missing, loose or damaged parts and hardware, and for unusual wear or deterioration.



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W – Weekly (40 hrs)  
 M – Monthly (100 hrs)

S – Semi-Annual (500 hrs)  
 A – Annually (1000 hrs)

Item No.	Interval				ITEM TO BE INSPECTED	PROCEDURES
	W	M	S	A		
5		•			Batteries	<p>Check electrolyte level. Check condition with a hydrometer. Add water as required to bring electrolyte level to slots in filler wells.</p> <div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px 0;"><b>WARNING</b></div> <p>The 6TN and 6TL batteries can be mixed or matched. However, maintenance-free batteries cannot be mixed or matched with military batteries. The 6TN and or the 6TL batteries will perform properly in hot weather as long as electrolyte levels are carefully monitored. If the electrolyte expands and causes the level to rise, some fluid must be removed. If the level becomes too low due to evaporation, distilled water may be used to obtain the proper level. A good grade of drinking water (excluding mineral waters) may be used if distilled water is not available.</p> <p>Electrolyte (NSNs 6810-00-249-9354 and 6810-00-843-1640) have a specific gravity of 1.280 and should be used in these batteries. Do NOT adjust the electrolyte in wet batteries to a lower specific gravity.</p>
6		•			V-belt	<p>Inspect for worn, frayed, cracked, or oil-soaked belt. Check belt adjustment. If adjustment is required, loosen alternator mounting hardware and adjust for a 1/2-inch deflection when belt is depressed at a point midway between the alternator and water pump pulleys. Tighten the alternator mounting hardware.</p>
7	•				Breather and breather tube	<p>Inspect for damage. Clean breather tube at oil change interval as directed by Army Oil Analysis Program (AOAP).</p>
8					Engine oil	<p>A sample of the oil shall be sent to an AOAP laboratory for analysis at an Interval of 50 hours or 60 days. Refer to TB43-O210 for sampling requirements.</p> <p>When AOAP laboratory support is not available, drain and refill crankcase oil at 300 hours or 6 months.</p>
9					Oil filters	<p>Every 300 hours remove filter element, clean housing, Install new element, fill crankcase and</p>

Table 4-1. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES (CONT)

ITEM NO.	INTERVAL				ITEM TO BE INSPECTED	PROCEDURES
	W	M	S	A		
						operate engine for 5 minutes. Check for leaks, check crankcase oil level, and bring to FULL mark. Oil filter replacement interval should align with on-condition AOAP or hard time oil change requirements.
10					Air cleaner	This unit is equipped with an air filter condition indicator light that will indicate when filter element needs cleaning. Clean element when necessary.
11			•		Frame	Inspect for cracks, bent members, or broken welds.
12			•		Brake master cylinder	Check fluid level and fill to 1/2-inch from top.
13				•	Wheel bearings and brake assemblies	Remove wheel hubs and brakedrums.  Clean, inspect, and replace brake parts as required.  Adjust brakes.
14			•		Wheels and tires	Inspect serviceability of tires as indicated in TM9-2610-200-24.  Tighten wheel nuts to 450 - 500 ft-lb (611 - 678 n-m).
15			•		Suspension	Inspect for bent or cracked parts, loose mountings, and worn bushings.
16			•		Junction box	Inspect for cracked parts, loose mountings, or damaged connections.



Table 4-1. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES (CONT)

ITEM NO.	INTERVAL				ITEM TO BE INSPECTED	PROCEDURES
	W	M	S	A		
17		•			Air intake baffle assembly	Inspect for damaged parts and foreign matter. Replace damaged parts. Clean as necessary.
18			•		Air exhaust baffle assembly	Inspect for damaged parts and foreign matter. Replace damaged parts. Clean as necessary.
19			•		Cable reel assembly	Inspect cable reel assembly for bends, cracks, or damaged drive gears. Replace if damaged.
20		•			Battery box	Inspect for secure mounting, corrosion, and damage. Tighten mounting hardware if loose. Clean battery terminals if corroded.

Section III. TROUBLESHOOTING

4-7. General Procedures

This section contains troubleshooting and corrective action procedures authorized at the unit maintenance level, see Appendix B, MAC.

4-8. Troubleshooting

Table 4-2 lists malfunctions that may occur during operation or maintenance of

the PU 794/G and components. Test, checks, inspections, and corrective actions should be performed in the order listed. If a malfunction beyond the scope of unit maintenance is discovered, report the malfunction to direct support maintenance. For troubleshooting procedures on the generator set, refer to TM5-6115-464-12. For troubleshooting procedures on the trailer, refer to TM9-2330-205-14&P.

Table 4-2. PU 794/G, TROUBLESHOOTING PROCEDURES

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
1.	PU 794/G WILL NOT START USING REMOTE CONTROL UNIT, BUT STARTS WITH SHORTING PLUG INSTALLED.	<b>WARNING</b>  PU 794/G must be shut down before checking cable connectors. Failure to do so could result in serious injury or death by electrocution.  Step 1. Connect 5-foot control cable from connector plate to unit 2 control connection on junction box. Attempt to start unit with SET No. 2 controls on remote control unit.  <b>WARNING</b>  PU 794/G must be shut down before disconnecting remote control unit. Serious injury or death by electrocution could result if procedure is performed with power unit running.  If the unit starts, the remote control unit is faulty. Replace the remote control unit.  <b>WARNING</b>  PU 794/G must be shut down before performing all tests. Failure to do so could result in serious injury or death by electrocution.  Step 2. Test the control cables, remote control cable and junction box.  Replace faulty cable or junction box.  Step 3. If unit still will not start, the remote functions box assembly is faulty.  Report to intermediate direct support maintenance.

Table 4-2. PU 794/6, TROUBLESHOOTING PROCEDURES (CONT)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
2.	APPROPRIATE INDICATOR LAMP DOES NOT ILLUMINATE AT REMOTE CONTROL UNIT.	
	Step 1. Check indicator lamp for open filament.	Replace lamp if filament is open.
	Step 2. Refer to F0-2 and test control cables and junction box for continuity in indicator lamp circuit.	Replace faulty cable or junction box.
	Step 3. Test remote control unit.	Replace faulty remote control unit.
	Step 4. If indicator lamp still does not illuminate, remote functions box assembly is faulty.	Report to intermediate direct support maintenance.

Section IV. MAINTENANCE PROCEDURES

4-9. General Instructions

This section provides organizational maintenance instructions for the

PU 794/G. Each maintenance function will be performed with the PU 794/G shut down and negative battery cable disconnected, except where otherwise stated.



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4-10. REPLACE BATTERY (cont)

---

- c. Remove cable assembly (8) from the batteries.
- d. Lift out batteries (9) one at a time.

---

INSPECTION

---

INSPECT BATTERIES.

Refer to TM9-6140-200-14 for inspection and servicing of batteries.

---

INSTALLATION

---

1. REPLACE BATTERIES.

- a. Individually place batteries (9) into battery box (6).
- b. Connect cable assembly (8) to battery terminals as shown.
- c. Connect positive battery cable clamp (7) to positive terminal.
- d. Connect negative battery cable clamp (5) to negative terminal.

2. REPLACE BATTERY RETAINER.

- a. Thread three rods (3) into bottom brackets.
- b. Place battery retainer (4) over the three rods (3).
- c. Install three washers (2) and nuts (1).



---

4-11. REPLACE BATTERY CABLES (cont)

---

---

FABRICATION

---

REPLACE BATTERY CABLE.

Replacement of the battery cables is by fabrication (see Appendix G).

---

INSTALLATION

---

INSTALL BATTERY CABLE.

NOTE

The negative cable lead is marked with black shrink tubing and the positive cable lead is marked with red shrink tubing.

- a. Get a new set of battery cables and route cables through the skid base assembly, with connector ends for batteries outwards, and secure the connector strain reliefs to the skid base.
- b. Secure the negative cable lead (see note), to the starter mounting plate with screw (7), and lockwasher (8). Secure the positive cable lead to the starter solenoid with lockwasher (6) and nut (5).
- c. Route the cables through the bushing on the battery box. Secure the positive lead to the positive battery terminal connector with lockwasher (4) and nut (3). Secure the negative lead to the negative battery terminal connector with lockwasher (2) and nut (1). Inspect all connections to ensure the connections are tight.

---

MAINTENANCE OF BATTERY BOX ASSEMBLY

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4-12. REPLACE BATTERY BOX

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This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-10 Remove Batteries  
from Battery Box.

Materials/Parts

Battery Box Assembly  
97403-13228E3358

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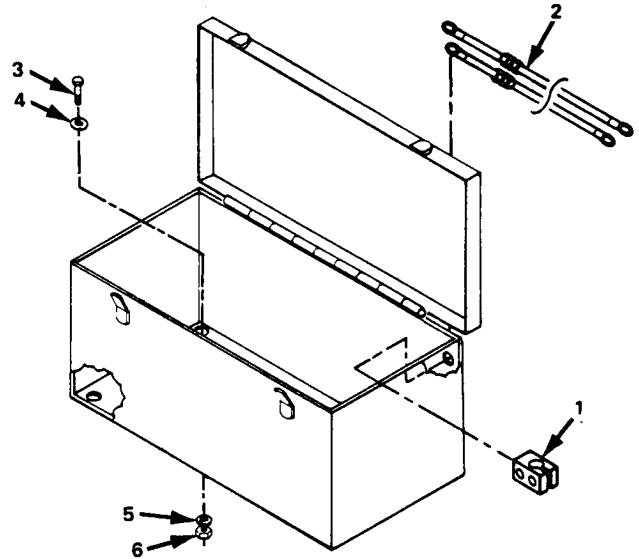
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REMOVAL

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1. REMOVE BATTERY CABLES.
  - a. Remove cable clamp (1) from positive and negative battery cables (2).
  - b. Feed battery cables (2) out of battery box.
2. REMOVE BATTERY BOX.

Remove four screws (3), flat washers (4), lockwashers (5), and nuts (6).



---

INSTALLATION

---

1. INSTALL BATTERY BOX.
  - a. Place battery box over mounting holes on fender.
  - b. Install four screws (3), flat washers (4), lockwashers (5), and nuts (6).



---

4-12. RELACE BATTERY BOX (cont)

---

2. INSTALL BATTERY CABLES.
  - a. Feed positive and negative battery cables (2) through rear cable opening in battery box.
  - b. Install battery terminal clamps (1), on positive and negative cables (2).

NOTE

FOLLOW ON MAINTENANCE:  
Install Batteries  
(Para. 4-10).

---

MAINTENANCE OF BATTERY BOX ASSEMBLY

---

---

4-13. REPLACE BATTERY BOX COVER

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-10 Remove Batteries from  
Battery Box.

Materials/Parts

Battery Box Cover  
97403-13228E3360

---

---

REMOVAL

---

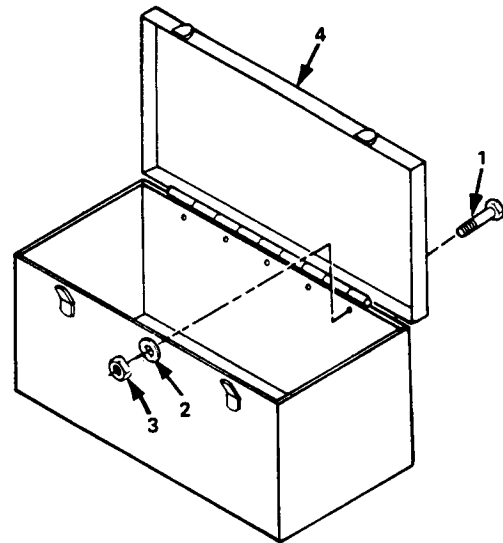
Remove the five screws (1), washers (2) and nuts (3), holding cover and hinge (4) to the battery box.

---

INSTALLATION

---

Position new cover and hinge (4) to line up holes and install five screws (1), washers (2) and nuts (3).



NOTE

FOLLOW ON MAINTENANCE: Install Batteries (Para. 4-10).

---

MAINTENANCE OF INTAKE BAFFLE ASSEMBLY

---

---

4-14. REPLACE INTAKE BAFFLE ASSEMBLY

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Baffle Assembly, Intake  
97403-13228E1877

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

---

General Safety Instructions

**WARNING**

The baffle assembly is too bulky and heavy for one person to remove without possible damage. Get help to lift or carry assembly. Failure to do so may result in serious injury.

---

REMOVAL

---

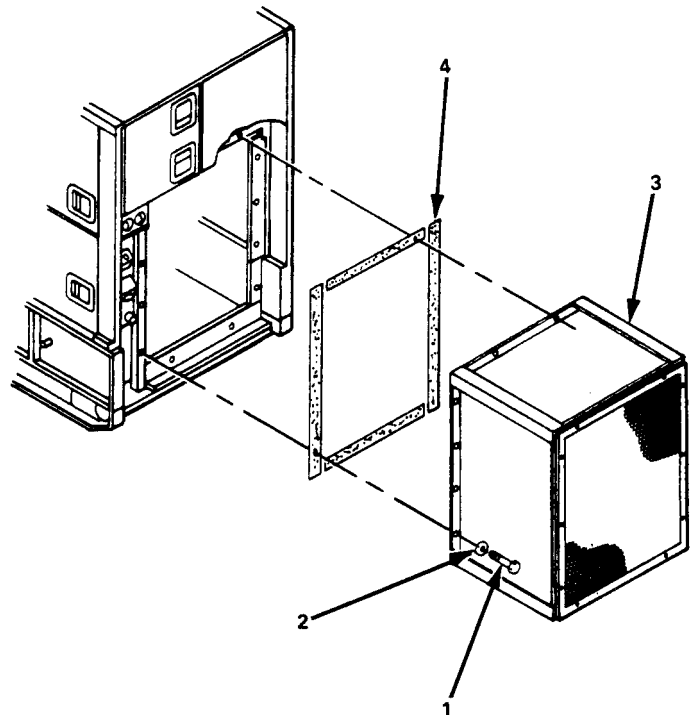
REMOVAL BAFFLE ASSEMBLY, INTAKE.

- a. Remove two bottom screws (1), and flatwasher (2).
- b. Remove two top screws (1) and flatwashers (2).

NOTE

When removing the right and left side screws, one person should hold the intake baffle assembly front to keep the baffle assembly weight off of the screws being removed.

- c. Remove four screws (1), flatwashers (2), left and right side.
- d. Remove intake baffle assembly (3) and attached gasket (4).



---

4-14. REPLACE INTAKE BAFFLE ASSEMBLY (cont)

---

---

INSTALLATION

---

INSTALL INTAKE BAFFLE ASSEMBLY.

- a. Position intake baffle assembly and align the screw holes.
- b. Install one top screw (1), and flatwasher (2) on each side.
- c. Install remaining 10 screws (1), and flatwashers (2), top, right, left, and bottom of intake baffle assembly.
- d. Tighten 12 screws.



---

4-15. REPLACE GRID (cont)

---

3. Replace damaged grid and/or center intake baffles and channel end insulation baffles.

---

INSTALLATION

---

1. Insert two channel end insulation baffles (7) and five center intake baffles (6) by sliding them into baffle assembly intake (8).
2. Install grid (5) with 10 screws (1), 20 flat washers (2), 10 lockwashers (3), and 10 nuts (4).

---

MAINTENANCE OF INTAKE BAFFLE ASSEMBLY

---

---

4-16. REPLACE FLANGE, BOTTOM, LOWER AND UPPER SIDE

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference

Para. 4-14 Baffle Assembly, Intake  
Removed.

Materials/Parts

Flange Bottom  
97403-13228E1950  
Flange Lower Side  
97403-13228E1943  
Flange Upper Side  
97403-13228E1921

---

---

REMOVAL

---

1. REMOVE FLANGE BOTTOM.

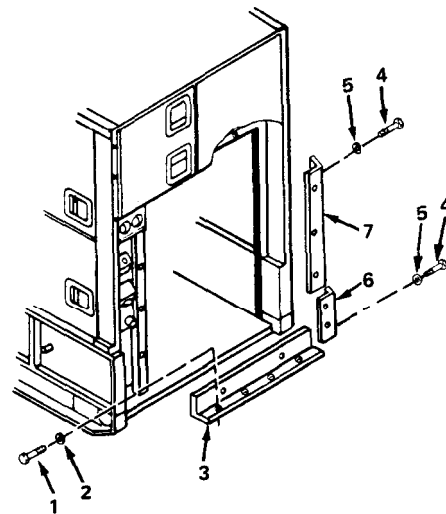
Remove four screws (1) and lockwashers (2) and remove bottom flange (3).

2. REMOVE FLANGE LOWER SIDE.

Remove two screws (4) and lockwashers (5) and remove lower side flange (6).

3. REMOVE FLANGE UPPER SIDE.

Remove three screws (4) and lockwashers (5) and remove upper side flange (7).



---

INSTALLATION

---

1. INSTALL FLANGE UPPER SIDE.

Install upper side flange (7) with three screws (4) and lockwashers (5).

---

4-16. REPLACE FLANGE, BOTTOM, LOWER AND UPPER SIDE (cont)

---

2. INSTALL FLANGE LOWER SIDE.

Install lower side flange (6)  
with two screws (4) and  
lockwashers (5).

3. INSTALL FLANGE BOTTOM.

Install bottom flange (3) with  
four screws (1) and lockwashers  
(2).

NOTE

FOLLOW ON MAINTENANCE: Install  
Intake Baffle Assembly (Para.  
4-14).



---

MAINTENANCE OF CONNECTOR PLATE

---

---

4-17. REPLACE CONNECTOR PLATE

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Connector Plate  
97403-13228E1902

---

NOTE

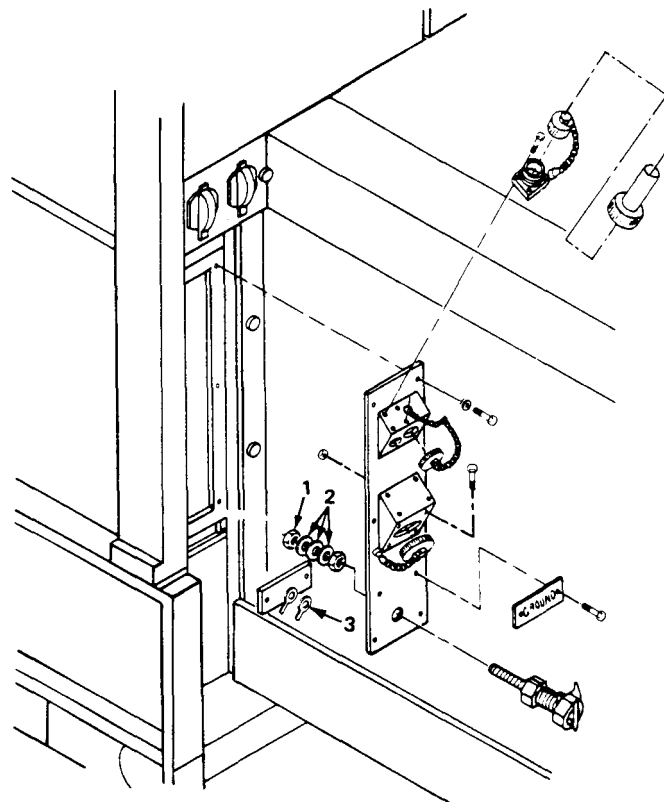
Replacement of the connector plate requires removal of the mounted cable heads and generator ground. Proceed as follows:

---

REMOVAL

---

1. OPEN LEFT REAR ACCESS DOOR.  
  
Open door access, left rear on generator set, to allow easy access to rear of connector plate.
2. REMOVE GROUND CABLE.
  - a. Remove brass nut (1), self-locking.
  - b. Tag and remove ground wires (3) and three flat washers (2).



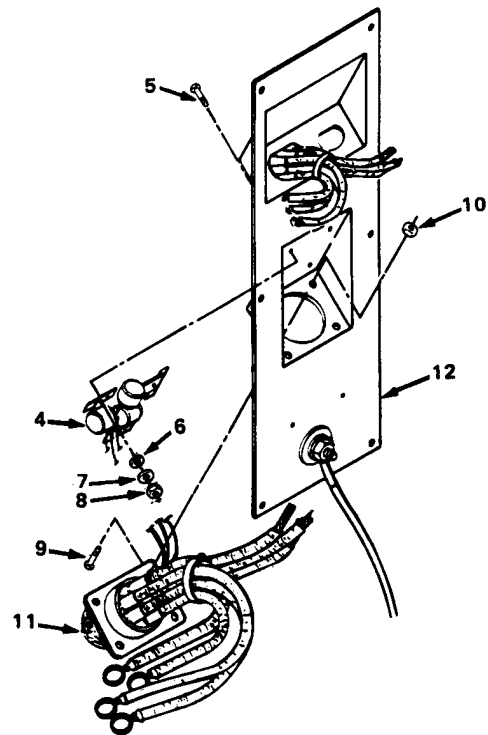
---

4-17. REPLACE CONNECTOR PLATE (cont)

---

3. REMOVE POWER CABLE HEAD.

- a. Remove surge suppressors (4), by removing three screws (5), lockwashers (6), flat washers (7) and nuts (8).
- b. Remove four screws (9) and nuts (10).
- c. Backout power cable head (11) from the connector plate (12).

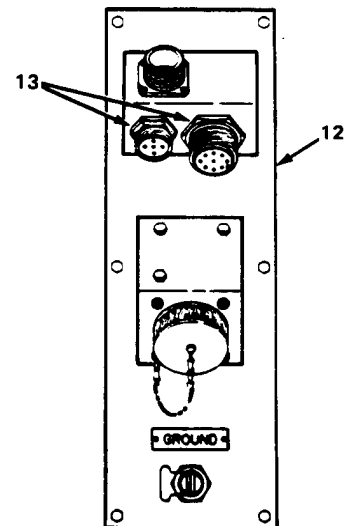


4. REMOVE PARALLELING/CONTROL CABLE HEADS.

- a. At the front of the connector plate (12), remove the locking nuts (13) from the two cable heads.
- b. Remove each cable head from the connector plate (12).

5. REMOVE CONNECTOR PLATE.

- a. Remove six screws (14) and lockwashers (15) and remove connector plate (12).
- b. Remove connector ALT, receptacle (16), by removing four screws (17) and nuts (18) w/captive washer.
- c. Remove ground terminal (19) by removing brass nut (20).
- d. Remove nameplate GROUND (21) by removing two screws (22).



---

INSTALLATION

---

1. INSTALL PLATE CONNECTOR.

- a. Install nameplate GROUND with two screws (22).

4-17. REPLACE CONNECTOR PLATE (cont)

- b. Install ground terminal (19) with brass nut (20).
- c. Install connector ALT receptacle (16) with four screws (17), and nuts (18).
- d. Install connector plate (12) with six screws (14), and lockwashers (15).

2. INSTALL PARALLEL/CONTROL CABLE HEADS.

- a. Insert each cable head into the connector plate (12).
- b. Install the locking nut (13) onto each cable head and tighten.

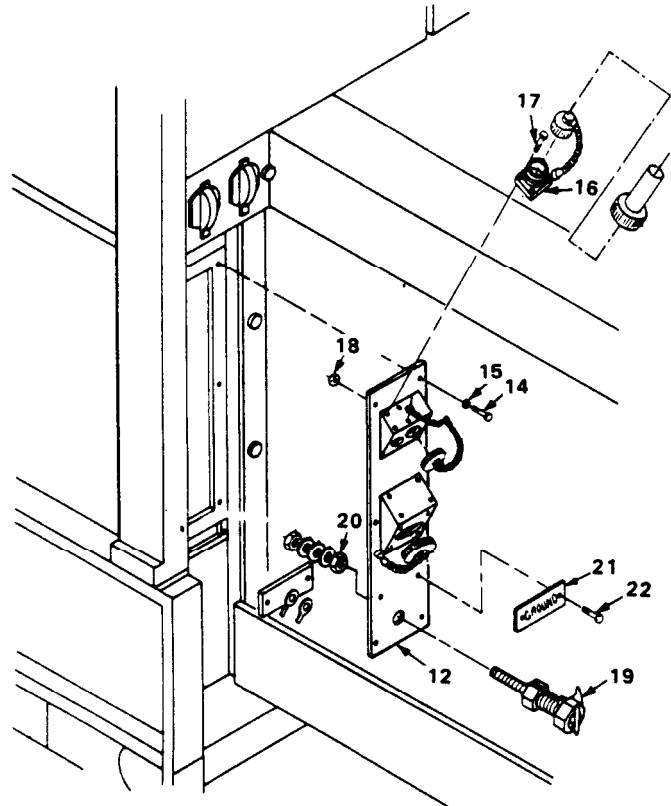
3. REPLACE POWER CABLE HEAD.

- a. Insert the power cable head (11) into the connector plate (12).
- b. Install three surge suppressors (4) with screws (5), lockwashers (6), flat washers (7) and nuts (8).
- c. Secure the power cable by installing four screws (9), nuts (10) and captive washers.

4. INSTALL GROUND CABLE.

Install ground cable with two washers (2) and brass nut (1), self-locking.

5. CLOSE LEFT REAR ACCESS DOOR.



NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF ACCESS DOORS

---

---

4-18. REPLACE FRONT ACCESS DOORS

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Door, Access, Right Front  
97403-13228E3379  
Door, Access, Left Front  
97403-13228E3378

---

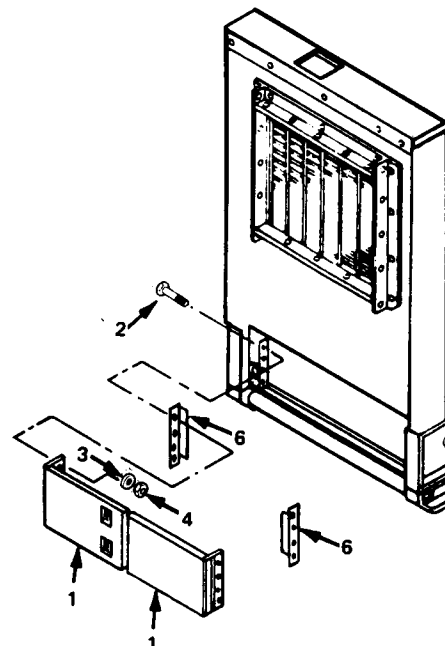
---

REMOVAL

---

REMOVE FRONT ACCESS DOORS.

- a. Open doors (1).
- b. Remove eight screws (2), lockwashers (3) and nuts (4) from hinges (5) and remove doors (1).



---

INSTALLATION

---

INSTALL FRONT ACCESS DOORS.

- a. Position hinges (5) against brackets (6) and align holes.
- b. Install eight screws (2), lockwashers (3) and nuts (4).
- c. Close doors (1).

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

## MAINTENANCE OF ACCESS DOORS

---

---

### 4-19. REPLACE SIDE ACCESS DOORS, LEFT AND RIGHT

---

This task covers: a. Removal  
b. Installation

---

---

#### INITIAL SETUP

---

##### Tools

General Mechanic's Tool Kit  
5180-00-177-7033

##### Materials/Parts

Door, Access, Left Rear  
97403-13228E3363-3  
Door, Access, Right Rear  
97403-13228E3363-2  
Door, Access, Forward  
97403-13228E3363-1 (2 ea)

##### General Safety Conditions

#### **WARNING**

Removal and installation of access doors is awkward. Get help in help in holding the doors. Failure to do so could result in serious injury.

##### Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

---

#### REMOVAL

---

REMOVAL LEFT AND RIGHT SIDE ACCESS DOORS.

Remove 24 screws (1) and lock-washers (2) from four hinges (3). Remove four access doors (4) from generator housing (5).

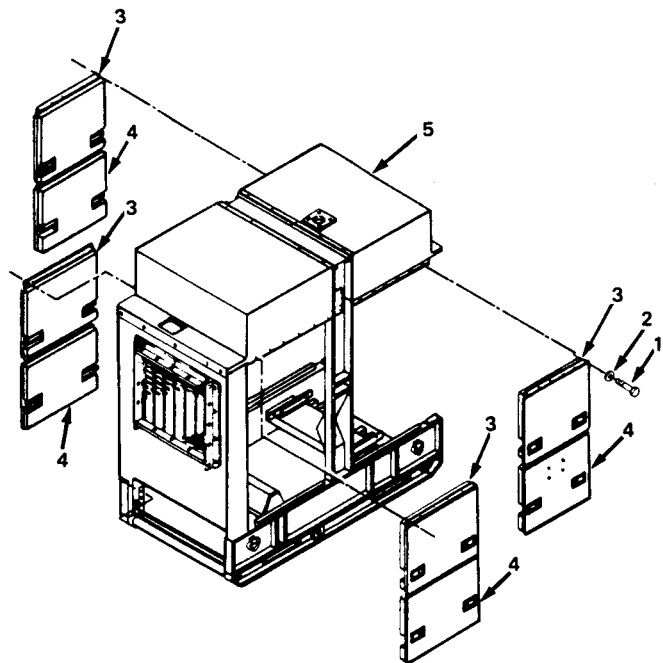
---

#### INSTALLATION

---

INSTALL LEFT AND RIGHT SIDE ACCESS DOORS.

- a. Install four access doors (4) onto generator housing (5).
- b. Install 24 screws (1) and lock-washers (2) into housing (5) through four hinges (3).



#### NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE ASSEMBLY GENERATOR SET, TOP REAR

---

---

4-20. REPLACE TOP REAR COVER

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Sealing Compound  
Top Rear Housing, Generator Set  
97403-13228E3376

Equipment Conditions:

Reference  
Para. 4-19 Remove Side Access Doors,  
Left and Right.

---

General Safety Instructions

**WARNING**

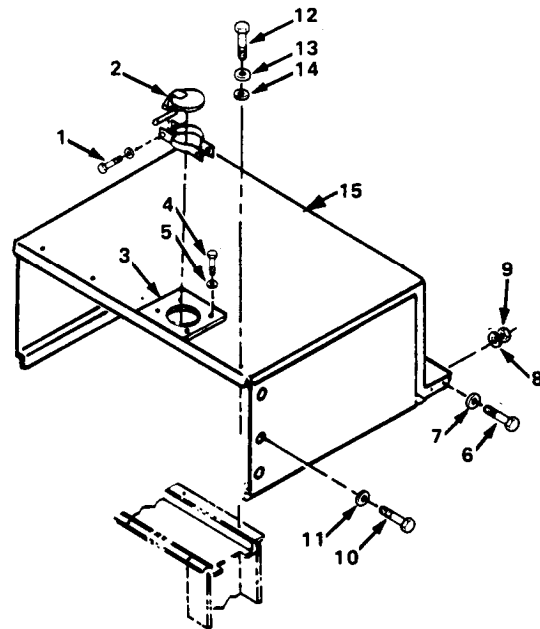
The rear cover is somewhat awkward to remove. Get help to lift the cover off the generator set. Failure to do so would result in serious injury.

---

REMOVAL

---

1. REMOVE RAIN CAP AND EXHAUST PLATE.
  - a. Loosen rain cap retaining clamp screw (1) and lift off rain cap (2),
  - b. Remove exhaust plate (3), by removing four screws (4), and lockwashers (5).
2. REMOVE TOP REAR COVER.
  - a. Remove four screws (6), lockwashers (7), flatwashers (8) and nuts (9) around rear edge.
  - b. Remove six screws, and lockwashers (11).



---

4-20. REPLACE TOP REAR COVER (cont)

---

- c. Remove five screws (12), lock-washers (13) and flat washers (14).
- d. Remove top rear cover (15).

---

INSTALLATION

---

- 1. INSTALL TOP REAR COVER.
  - a. Place top rear cover (15) on top of generator set. Match the mounting holes on the center and rear support cross members.
  - b. Install four screws (6), lock-washers (7), flat washers (8) and nuts (9) around rear edge.
  - c. Install five screws (12), lock-washers (13) and flat washers (14) on top rear cover (15).
  - d. Install six screws (10) and lockwashers (11).
- 2. REPLACE RAIN CAP AND EXHAUST PLATE.
  - a. Coat the bottom of the exhaust plate (3) with sealing compound. Place the exhaust plate (3) over the exhaust, install four screws (4) and lockwashers (5).
  - b. Place the rain cap (2) over the exhaust with the rain cap (2) in the closed position. Tighten the clamp screw (1).

NOTE

FOLLOW ON MAINTENANCE: Install Side Access Doors, Left and Right (Para. 4-19).

---

MAINTENANCE OF REAR HOUSING GENERATOR SET FRAME

---

---

4-21. REPLACE REAR HOUSING FRAME

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Housing, Generator Set, Rear  
97403-13228E1901

Equipment Conditions:

Reference

Para. 4-14 Remove Baffle, Air Intake.

Para. 4-20 Remove Cover, Top Rear.

Para. 4-17 Remove Connector Plate.

TM5-6115-464-12

Remove Door Access, Control Panel

Para. 3-134.

TM5-6115-464-34

Removal Control Cubicle Assembly

Para. 4-2.

Remove Fault Locating Indicator

Para. 4-3.

General Safety Instructions

**WARNING**

The removal/installation of the rear housing frame requires two persons one to hold the housing upright while the mounting hardware is being removed. Failure to do so could result in serious injury.

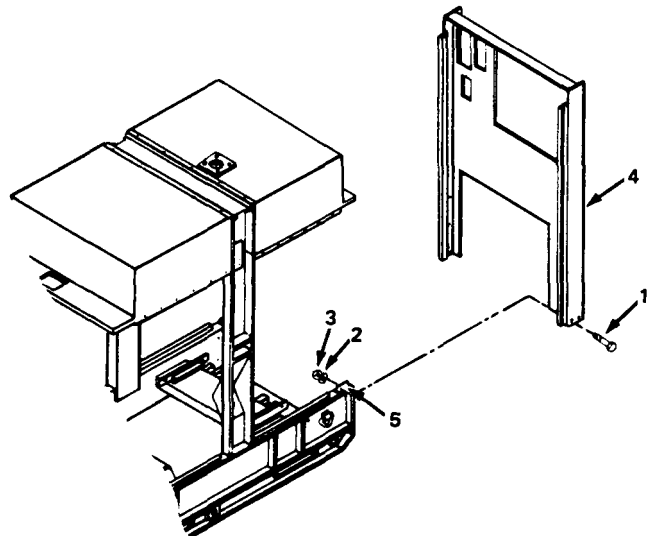
---

REMOVAL

---

REMOVE REAR HOUSING FRAME.

Remove four screws (1), lockwashers (2) and nuts (3) at the bottom right and left side of the rear housing frame (4) and remove it.





---

4-21. REPLACE REAR HOUSING FRAME (cont)

---

---

INSTALLATION

---

INSTALL REAR HOUSING FRAME.

Position rear housing frame (4)  
over angle brackets (5) and  
install four screws (1),  
lockwashers (2) and nuts (3).

NOTE

FOLLOW ON MAINTENANCE:

Replace Fault Locating Indicator  
(TM5-6115-464-34, Para. 4-3).  
Replace Control Cubicle Assembly  
(TM5-6115-464-34, Para. 4-2).  
Replace Door Access, Control Panel  
(TM5-6115-464-12, Para. 3-134).  
Install Connector Plate (Para.  
4-17).  
Install Cover, Top Rear (Para.  
4-20).  
Install Baffle, Air Intake (Para.  
4-14).

---

MAINTENANCE EXHAUST BAFFLE ASSEMBLY

---

---

4-22. REPLACE BAFFLE ASSEMBLY

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Baffle Assy, Exhaust  
97403-13228E1958

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

---

General Safety Instructions

Baffle assembly is too bulky and heavy for one person to remove. Get help to lift or carry assembly. Failure to do so may result in serious injury.

---

REMOVAL

---

REMOVE EXHAUST BAFFLE ASSEMBLY.

- a. Remove four nuts (1), lock-washers (2), flat washers (3) and screws (4).
- b. Remove exhaust baffle assembly (5) from top support by lifting up and backwards.

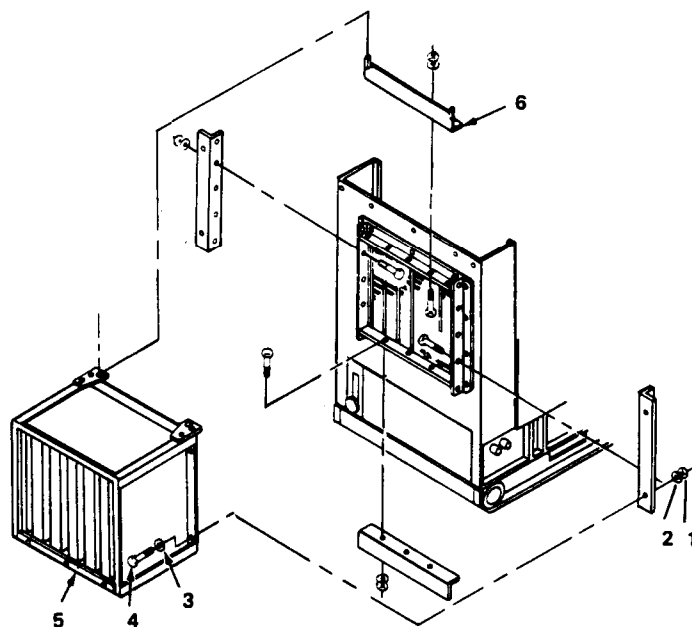
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INSTALLATION

---

INSTALL EXHAUST BAFFLE ASSEMBLY.

- a. Install exhaust assembly onto top support pins (6).
- b. Install four screws (5), flat washers (4), lockwashers (3), and nuts (2).



---

MAINTENANCE OF EXHAUST BAFFLE ASSEMBLY

---

---

4-23. REPLACE EXHAUST BAFFLE MOUNTING BRACKETS

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference

Para. 4-22 Remove Exhaust Baffle Assembly.

Materials/Parts

Flange Top Exhaust Baffle Assy  
97403-13228E1964  
Flange Side Angle Exhaust Baffle Assy  
97403-13228E1965 (2 ea.)  
Flange Bottom Exhaust Baffle Assy  
97403-13328E1966

---

---

REMOVAL

---

1. REMOVE TOP FLANGE.

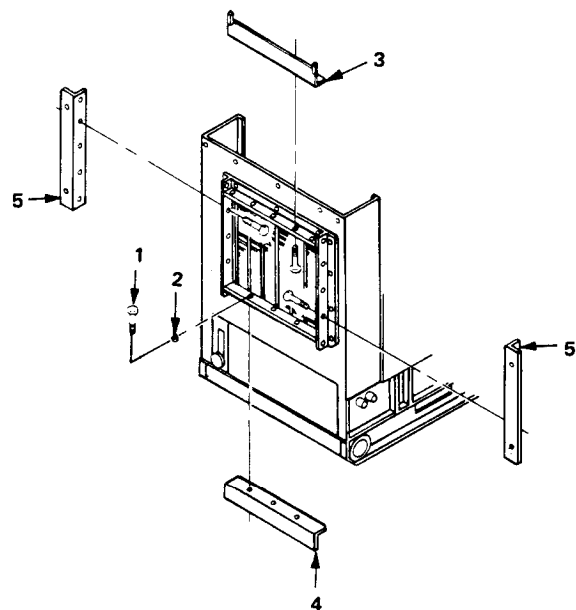
Remove five screws (1) and lockwashers (2) and remove top flange (3).

2. REMOVE BOTTOM FLANGE.

Remove three screws (1) and lockwashers (2) and remove bottom flange (4).

3. REMOVE SIDE ANGLE FLANGE.

Remove 10 screws (1) and lockwashers (2) and remove two side angle flanges (5).



---

INSTALLATION

---

1. INSTALL SIDE ANGLE FLANGE.

Install two side angle flanges (5) with 10 screws (1) and lockwashers (2).

---

4-23. REPLACE EXHAUST BAFFLE MOUNTING BRACKETS (cont)

---

2. INSTALL BOTTOM FLANGE.

Install bottom flange (4) with three screws (1) and lock-washers (2).

3. INSTALL TOP FLANGE.

Install top flange (3) with five screws (1) and lock-washers (2).

NOTE

FOLLOW ON MAINTENANCE: Install Exhaust Baffle Assembly (Para. 4-22) .

---

MAINTENANCE OF TOP FRONT COVER, GENERATOR SET

---

4-24. REMOVE TOP FRONT COVER

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Top Front Cover, Generator Set  
97403-13228E3375

Equipment Conditions:

Reference

Para. 4-19 Remove Side Access  
Doors, Left and Right.

---

General Safety Instructions

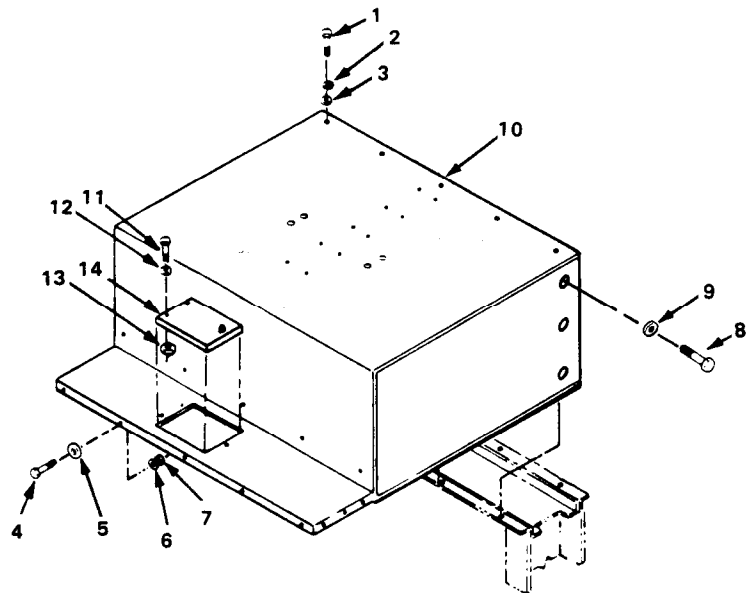
The front cover is large and awkward to remove. Get help to lift the cover off of the generator set. Failure to do so could result in serious injury.

---

REMOVAL

---

1. REMOVE TOP FRONT COVER.
  - a. Remove five screws (1), lock-washers (2) and flat washers (3).
  - b. Remove 11 screws (4), lock-washers (5), flat washers (6) and nuts (7) around front edge.
  - c. Remove six screws (8) and lockwashers (9).
  - d. Remove top front cover (10) from generator set.



---

4-24. REMOVE TOP FRONT COVER (cont)

---

2. REMOVE DOOR ACCESS RADIATOR FILLER.
  - a. Remove two screws (11), lock-washers (12) and nuts (13).
  - b. Remove access door (14).

---

INSTALLATION

---

1. INSTALL DOOR ACCESS RADIATOR FILLER.
  - a. Position access door (14) in place and line up mounting holes.
  - b. Install two screws (11), lock-washers (12) and nuts (13).
2. INSTALL TOP FRONT COVER.
  - a. Place top front cover (10) on top of generator set to match mounting holes on center and front support cross members.
  - b. Install five screws (1), lock-washers (2) and flat washers (3) at center support lifting frame.
  - c. Install 11 screws (4), lock-washers (5), flat washers (6) and nuts (7) at front edge of cover.
  - d. Install six screws (8) and lockwashers (9).

NOTE

FOLLOW ON MAINTENANCE: Install Side Access Doors, Left and Right (Para, 4-19).

---

MAINTENANCE OF FRONT FRAME HOUSING, GENERATOR SET

---

---

4-25. REPLACE FRONT FRAME

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Front Housing, Generator Set  
13228E1884

---

Equipment Conditions:

Reference

Para. 4-22 Remove Baffle Assy Exhaust.  
Para. 4-24 Remove Assy Gen Set Top Front.  
Para. 4-18 Remove Front Access Doors.  
TM5-6115-464-12  
Remove Radiator Para. 3-88.

---

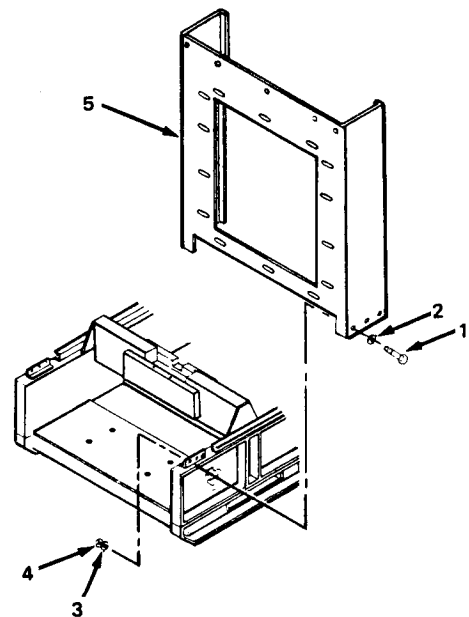
---

REMOVAL

---

REMOVE FRONT FRAME.

Remove six screws (1), flat washers (2), lockwashers (3) and nuts (4), right and left side of front frame (5) and remove.



---

INSTALLATION

---

INSTALL FRONT FRAME.

Position front frame (5) on skid and install six screws (2), flat washers (3), lockwashers (4) and nuts (5), right and left side of frame.

NOTE

FOLLOW ON MAINTENANCE:

Replace Radiator (TM5-6115-464-12, Para. 3-88).  
Install Front Access Doors (para. 4-18).  
Install Assy Gen Set Top Front (Para. 4-24).  
Install Baffle Assy Exhaust (Para. 4-22).

---

MAINTENANCE OF EXHAUST SILENCER SYSTEM

---

---

4-26. REPLACE SILENCER

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Silencer, Exhaust  
97403-A-22-960-XX

Equipment Conditions:

Reference  
Para. 4-20 Remove Generator  
Set, Top Rear.

---

General Safety Instructions

**WARNING**

During removal, allow time for silencer and tube assembly to cool before handling. Failure to do so could result in serious injury.

Silencer weighs approximately 65 pounds. Get help to remove silencer.

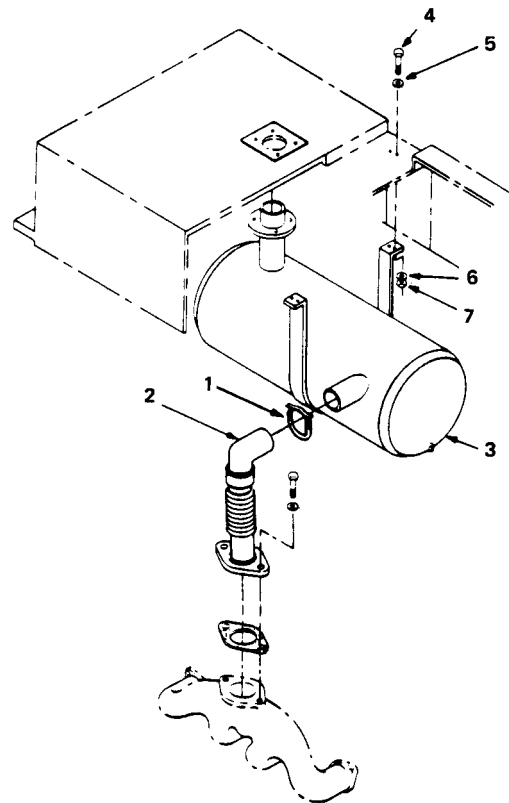
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---

REMOVE

---

1. REMOVE TUBE ASSEMBLY.
  - a. Loosen clamp (1).
  - b. Remove top of tube assembly (2) from silencer (3).
2. REMOVE SILENCER.
  - a. Remove four screws (4), washers (5), lockwashers (6) and nuts (7).
  - b. Lift silencer (3) up and out of top rear of the generator set.



---

INSTALLATION

---

1. REPLACE SILENCER.
  - a. Position the silencer support bracket mounting holes under-



---

4-26. REPLACE SILENCER (cont)

---

neath the support center  
lifting frame mounting holes.

- b. Install silencer (3) with four screws (4), washers (5), lock-washers (6) and nuts (7).

2. REPLACE TUBE ASSEMBLY.

- a. Place clamp (1) over silencer (3) inlet.
- b. Insert top of tube assembly (2) into silencer (3) inlet and tighten clamp (1).

NOTE

FOLLOW ON MAINTENANCE: Install  
Generator Set, Top Rear (Para.  
4-20) .

---

MAINTENANCE OF SILENCER EXHAUST SYSTEM

---

---

4-27. REPLACE FLEXIBLE TUBE ASSEMBLY AND GASKET

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Gasket  
30554-72-2057  
Tube Assembly, Flexible  
55996-DP-1306-2

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

---

General Safety Instructions

During removal, allow time for the exhaust tube assembly to become cool before handling. Failure to do so could result in serious injury.

---

REMOVAL

---

REMOVE TUBE ASSEMBLY AND GASKET.

- a. Loosen clamp (1).
- b. Remove two screws (2) and lock-washers (3).
- c. Remove tube assembly (4) and gasket (5).

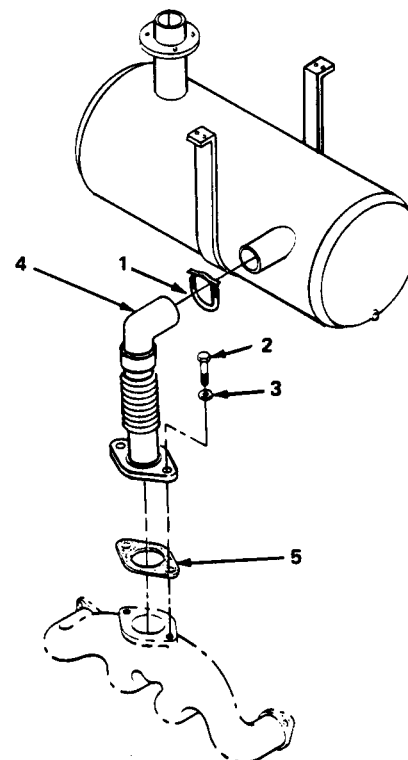
---

INSTALLATION

---

INSTALL TUBE ASSEMBLY AND GASKET.

- a. Place gasket (5) and then tube assembly (4) onto the exhaust manifold.



---

4-27. REPLACE FLEXIBLE TUBE ASSEMBLY AND GASKET (cont)

---

- b. Install two screws (2) and lockwashers (3).
- c. Place clamp (1) over end of silencer inlet tube.
- d. Install free end of tube assembly (4) into muffler inlet and tighten clamp (1).

---

MAINTENANCE AIR CLEANER SYSTEM

---

---

4-28. REPLACE AIR CLEANER HOUSING

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Filter Housing  
97403-13338E1894

Equipment Conditions:

Reference  
Para. 4-32 Remove Filter Element.  
TM5-6115-464-34  
Remove Fault Indicator Panel  
Para. 4-3.

---

General Safety Instructions

To avoid dropping the air filter housing, get help to hold the housing in place while removing or replacing the top mounting hardware.

---

REMOVAL

---

1. REMOVE AIR INLET HOSE.

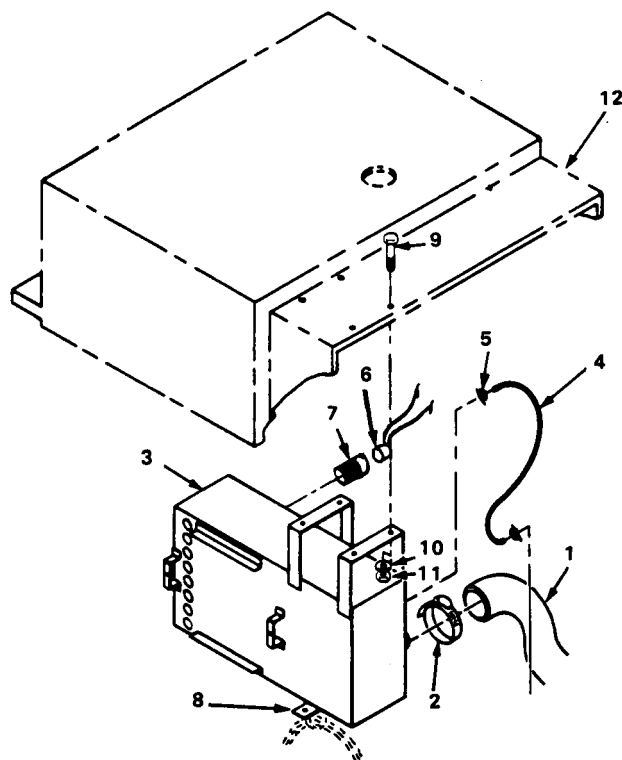
To remove air inlet hose (1), loosen clamp (2). Pull air inlet hose from back of air cleaner housing (3).

2. REMOVE AIR BREATHER HOSE.

To remove air breather hose (4), depress spring clamp (5) and remove hose from rear of air cleaner housing (3).

3. REMOVE SWITCH PRESSURE.

Remove cannon plug (6) from the pressure switch (7) and remove the pressure switch by unthreading.



---

4-28 REPLACE AIR CLEANER HOUSING (cont)

---

4. AIR CLEANER HOUSING.
  - a. Remove cable clamp (8) from air cleaner housing (3).
  - b. Remove the air cleaner housing (3) by removing four screws (9), lockwashers (10) and hex nuts (11).

---

INSTALLATION

---

1. INSTALL AIR CLEANER HOUSING.
  - a. Position air cleaner housing (3) mounting brackets, so mounting holes are in line with mounting holes in the center support section (12).
  - b. Install the air cleaner housing (3), by installing four screws (9), lockwashers (10) and hex nuts (11).
  - c. Install cable clamp (8) on air cleaner housing (3).
2. INSTALL SWITCH PRESSURE.
  - a. Install the pressure switch (7) into its threaded hole.
  - b. Connect cannon plug (6) to the pressure switch (7).
3. INSTALL AIR BREATHER HOSE.
  - a. Place the spring clamp (5) onto the air breather hose (4), approximately one-inch from the end.
  - b. Fit the air breather hose (4) onto the air inlet and slide the spring clamp (5) over the inlet to secure the hose.

---

4-28 REPLACE AIR CLEANER HOUSING (cont)

---

4. INSTALL AIR INLET HOSE.
  - a. Place the metal clamp (2) over the air inlet hose (1) approximately one-inch from the end.
  - b. Fit the air inlet hose (1) onto the air cleaner housing air inlet pipe, and secure air inlet hose (1) by moving the clamp (2) over the air inlet pipe and tightening the clamp (1).

NOTE

FOLLOW ON MAINTENANCE:  
Replace Fault Indicator Panel  
(TM5-6115-464-34, Para. 4-3).  
Install Filter Element (Para.  
4-32).

---

MAINTENANCE AIR CLEANER SYSTEM

---

---

4-29. REPLACE AIR INLET HOSE

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Air Inlet Hose  
97403-13228E1885  
Clamp  
96906-MS35842-13

---

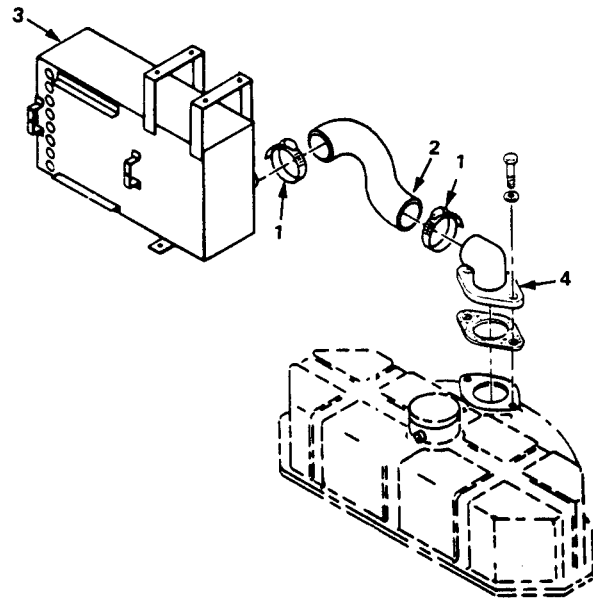
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REMOVAL

---

REMOVE AIR INLET HOSE.

- a. Loosen two hose clamps (1) and slide them back over the air inlet hose (2).
- b. Remove the air inlet hose (2) from the air cleaner housing (3) and the air inlet adapter (4).



---

INSTALLATION

---

REPLACE AIR INLET HOSE.

- a. Place a hose clamp (1) over each end of the air inlet hose (2).
- b. Connect the air inlet hose (2) to the air cleaner housing (3) and the air inlet adapter (4).

---

4-29. REPLACE AIR INLET HOSE (cont)

---

- c. Move each clamp (1) over the mounting surface of the hose ends and tighten the clamps (1).



---

MAINTENANCE AIR CLEANER SYSTEM

---

---

4-30. REPLACE AIR BREATHER HOSE

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Condition:

Reference  
Para. 4-9 General Instructions.  
Para. 4-28 Remove Air Inlet Hose.

Materials/Parts

Hose  
30554-72-2050-2  
Clamp  
96906-MS39326-17

---

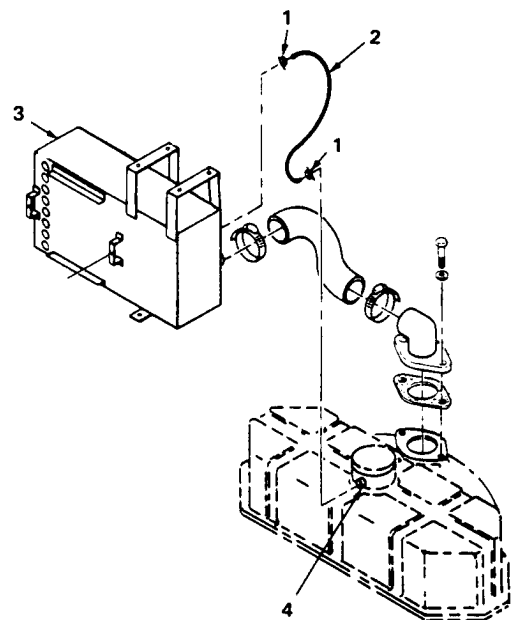
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REMOVAL

---

REMOVE THE AIR BREATHER HOSE.

- a. Open the spring clamps (1) and move clamps back over the air breather hose (2).
- b. Remove the air breather hose (2) from the air cleaner housing (3) and the air breather (4).



---

INSTALLATION

---

REPLACE THE AIR BREATHER HOSE.

- a. Place a spring clamp (1) over each end of the air breather hose (2).
- b. Connect the air breather hose (2) to the air breather housing (3) and the air breather (4).

---

4-30. REPLACE AIR BREATHER HOSE (cont)

---

- c. Slide the spring clamps (1) over the matting ends of the air breather hose (2) and release clamps (1).

NOTE

FOLLOW ON MAINTENANCE:  
Replace Air Inlet Hose (Para. 4-28).  
Connect Negative Battery Cable  
(Para. 4-10).

---

## MAINTENANCE AIR CLEANER SYSTEM

---

---

### 4-31. REPLACE AIR INLET ADAPTER AND GASKET

---

This task covers: a. Removal  
b. Installation

---

---

#### INITIAL SETUP

---

##### Tools

General Mechanic's Tool Kit  
5180-00-177-7033

##### Equipment Condition:

Reference  
Para. 4-9 General Instructions.

##### Materials/Parts

Adapter Air Inlet  
97403-13228E1917  
Gasket  
97403-40819

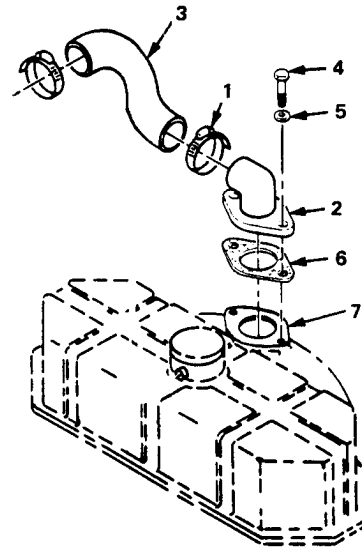
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---

#### REMOVAL

---

1. REMOVE AIR INLET HOSE.
  - a. Loosen the clamp (1) from adapter air inlet (2) and slide clamp back over the air inlet hose (3).
  - b. Remove the air inlet hose (3) from the air inlet adapter (2).
2. REMOVE ADAPTER AIR INLET.
  - a. Remove two screws (4) and lockwashers (5).
  - b. Remove adapter air inlet (2) and gasket (6) from intake manifold cover (7).



---

#### INSTALLATION

---

1. INSTALL ADAPTER AIR INLET AND GASKET.
  - a. Place a gasket (6) and adapter air inlet (2) on intake manifold cover (7).

---

4-31. REPLACE AIR INLET ADAPTER AND GASKET (cont)

---

- b. Install two screws (4) and lockwashers (5).

2. INSTALL AIR INLET HOSE.

Connect air inlet hose (3) onto adapter air inlet (2), slide clamp (1) over mating surface and tighten.

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).



---

4-32. REPLACE FILTER ELEMENT (cont)

---

---

SERVICE

---

SERVICE THE FILTER ELEMENT.

- a. Soak and agitate filter element for 15 minutes in a solution of warm water and mild detergent.
- b. Rinse filter element until clean and air dry.
- c. The filter element may also be cleaned with low pressure (30 psi g max) compressed air.

---

INSTALLATION

---

INSTALL FILTER ELEMENT.

Place the filter (5) into position on the air filter housing (6), and install retaining bar (4) with two screws (1), lockwashers (2) and nuts (3).

NOTE

FOLLOW ON MAINTENANCE: Replace Negative Battery Cable (Para. 4-10).

---

MAINTENANCE REMOTE FUNCTION BOX ASSEMBLY

---

---

4-33. INSPECT REMOTE FUNCTIONS BOX ASSEMBLY

---

This task covers: a. Inspection

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

---

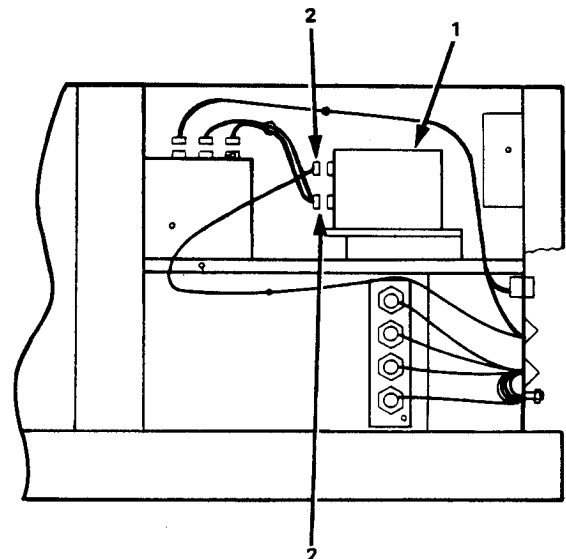
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INSPECTION

---

INSPECT REMOTE FUNCTIONS BOX ASSEMBLY.

- a. Open roadside rear access door on power unit.
- b. Visually inspect remote functions box assembly (1) for damage and loose hardware.
- c. Inspect cable harness connections (2) for tightness.



NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF ENGINE FAN

---

---

4-34. REPLACE FAN

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
#1 Common Tool Kit  
TBD

Equipment Conditions:  
Reference

Para. 4-9 General Instructions.

Materials/Parts

Fan, Engine  
97403-13228E1887

---

---

REMOVAL

---

REMOVE ENGINE FAN.

Remove four screws (1) and  
lockwashers (2) and remove fan  
(3).

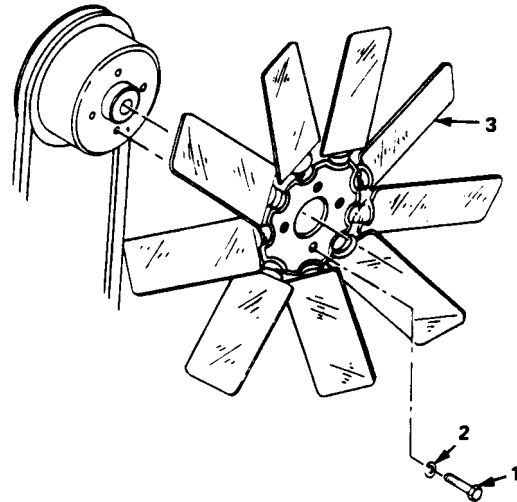
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INSTALLATION

---

INSTALL ENGINE FAN.

Install fan (3), two screws  
(1) and lockwashers (2).



NOTE

FOLLOW ON MAINTENANCE: Connect  
Negative Battery Lead (Para.  
4-10).



---

MAINTENANCE OF ENGINE V-BELT

---

4-35. REPLACE V-BELT

---

This task covers: a. Removal  
b. Installation

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-17033

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Belt, V, Engine  
96906-MS51066-57

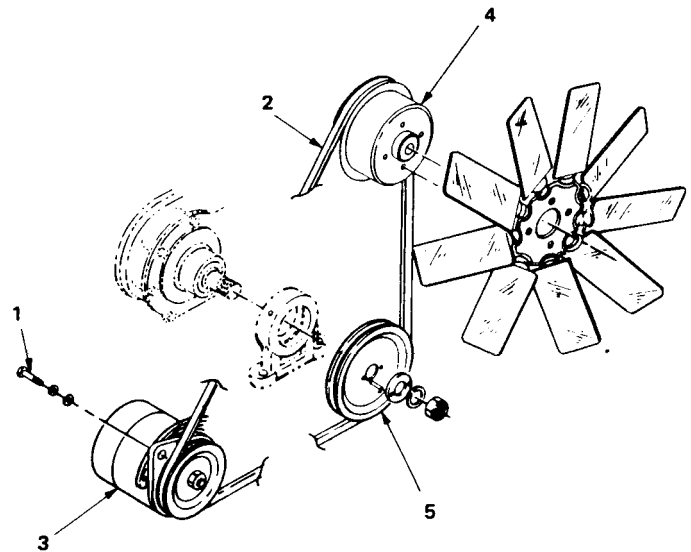
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REMOVAL

---

REMOVE ENGINE V-BELT.

Loosen battery charging alternator retaining screw (1) and push alternator close to engine. Remove V-belt (2) from alternator (3), fan (4) and engine (5) pulleys.



INSTALLATION

---

INSTALL ENGINE V-BELT.

Install V-belt (2) onto engine (5), fan (4) and alternator (3) pulleys. Pull engine alternator away from engine to put tension on V-belt (2). Tighten alternator retaining screw (1).

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF FAN GUARD, LEFT AND RIGHT

---

---

4-36. REPLACE FAN GUARD, LEFT AND RIGHT

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Fan Guard, Right  
97403-13228E1891  
Fan Guard, Left  
97403-13228E1892  
Plate, Fan  
97403-13228E1918

---

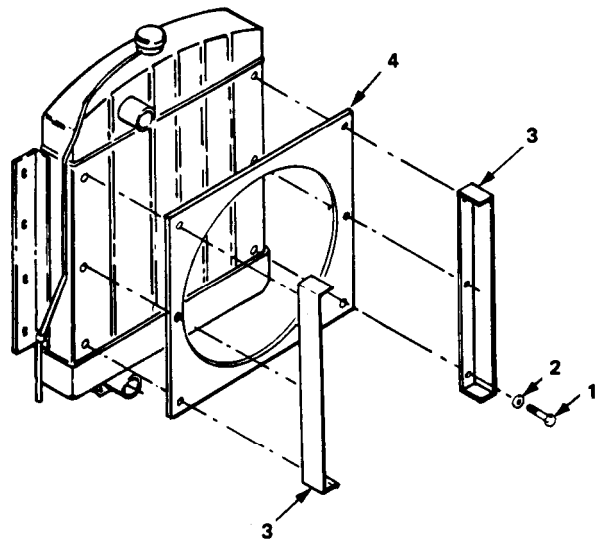
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REMOVAL

---

REMOVE FAN GUARDS.

- a. Remove six screws (1) and lockwashers (2).
- b. Remove fan guards (3), left and right and fan plate (4).



---

INSTALLATION

---

INSTALL FAN GUARDS.

- a. Position fan plate (4) against radiator.
- b. Install two fan guards (3), six screws (1) and lockwashers (2).

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

## MAINTENANCE OF DOCUMENT BOX

---

### 4-37. REPLACE DOCUMENT BOX

---

This task covers: a. Removal  
b. Installation

---

## INITIAL SETUP

---

### Tools

General Mechanic's Tool Kit  
5180-00-177-7033

### Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

### Materials/Parts

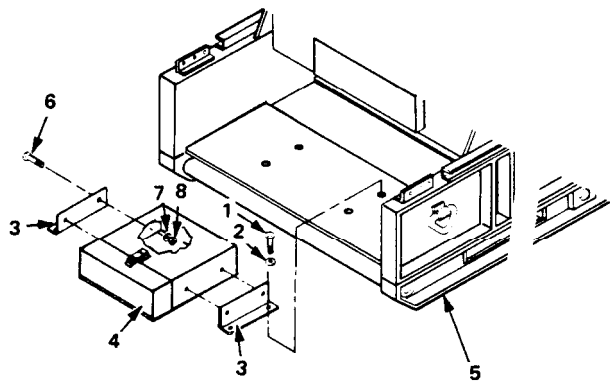
Box, Document  
97403-13228E3364  
Bracket, Document  
97403-13328E3367-1  
Bracket, Document  
97403-13228E3367-2

---

## REMOVAL

---

1. REMOVE DOCUMENT BOX.
  - a. Remove four screws (1) and lockwashers (2) from document box brackets (3).
  - b. Remove document box (4) with brackets (3) from front skid (5).
2. REMOVE BRACKETS FROM DOCUMENT BOX.
  - a. Remove four screws (6), lockwashers (7) and nuts (8).
  - b. Remove two brackets (3).



## INSTALLATION

---

1. INSTALL BRACKETS TO DOCUMENT BOX.

Install two brackets (3), four screws (6), lockwashers (7) and nuts (8).

4-37. REPLACE DOCUMENT BOX (cont)

---

2. INSTALL DOCUMENT BOX.
  - a. Place document box (4) with brackets (3) over mounting holes on skid (5).
  - b. Install four screws (1) and lockwashers (4).

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF THE SKID BASE ASSEMBLY

---

---

4-38. INSPECT SKID BASE ASSEMBLY

---

This task covers: a. Inspection

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
# 1 Common Tool Kit  
TBD

Equipment Conditions:

Reference  
Para 4-9 General Instructions.

---

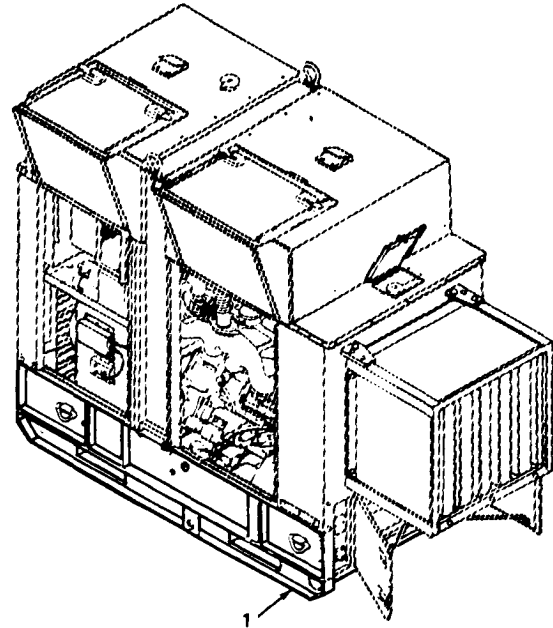
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INSPECTION

---

INSPECT THE SKID BASE ASSEMBLY

Visually inspect the skid base  
(1) for cracks, corrosion and  
defective welds.



NOTE

FOLLOW ON MAINTENANCE: Connect  
Negative Battery Cable (Para.  
4-10).



---

4-39. INSPECT, TEST AND REPLACE JUNCTION BOX ASSEMBLY (cont)

---

diagram, make continuity meter measurements of power and control wiring harness, pin-to-pin and pin-to-ground. When open condition or short to ground is observed, replace the junction box.

---

REMOVAL

---

REMOVE JUNCTION BOX ASSEMBLY.

- a. Remove four screws (6), lockwashers (7) and nuts (8).
- b. Remove the junction box.

---

INSTALLATION

---

INSTALL JUNCTION BOX ASSEMBLY.

- a. Place the junction box onto the trailer, matching up the mounting holes.
- b. Install four screws (6), lockwashers (7), and nuts (8).

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10) .

---

MAINTENANCE OF CABLE REEL ASSEMBLY

---

---

4-40. REPLACE CABLE REEL ASSEMBLY

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Cable Reel Assembly  
97403-13228E1873

---

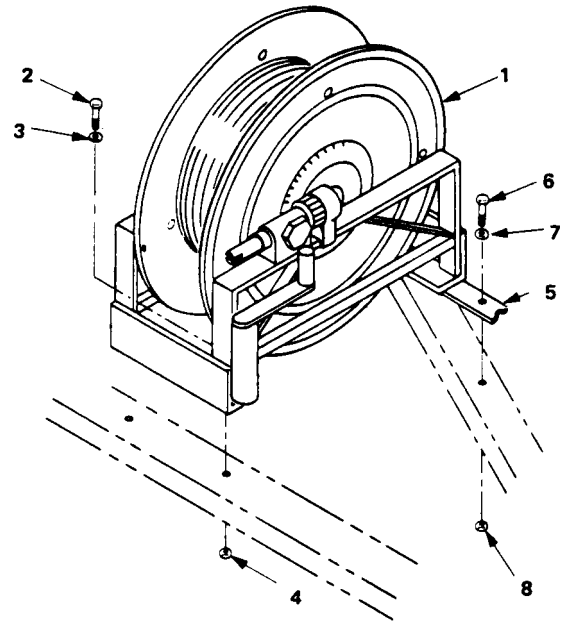
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REMOVAL

---

REMOVE CABLE REEL ASSEMBLY.

- a. Remove cables from cable reel assembly (1).
- b. Remove cable reel assembly (1) by removing four screws (2), lockwashers (3) and nuts (4).
- c. Remove support bracket (5) by removing two screws (6), washers (7) and nuts (8).



---

INSTALLATION

---

INSTALL CABLE REEL ASSEMBLY.

- a. Install support bracket (5) by installing two screws (6), washers (7) and nuts (8).
- b. Install cable reel assembly (1) onto trailer by installing four screws (7), washers (3) and nuts (4).



---

4-40. REPLACE CABLE REEL ASSEMBLY (cont)

---

NOTE

FOLLOW ON MAINTENANCE: Connect  
Negative Battery Cable (Para.  
4-10) .

---

MAINTENANCE PULLER BRACKET

---

---

4-41. REPLACE PULLER BRACKET

---

This task covers: a. Inspection  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Bracket Puller  
97403-13228E3387

---

---

REMOVAL

---

REMOVE PULLER BRACKET.

Remove two nuts with captive washer (1) and screws (2).  
Remove puller bracket (3) and chain (4) from trailer curbside front step (5).

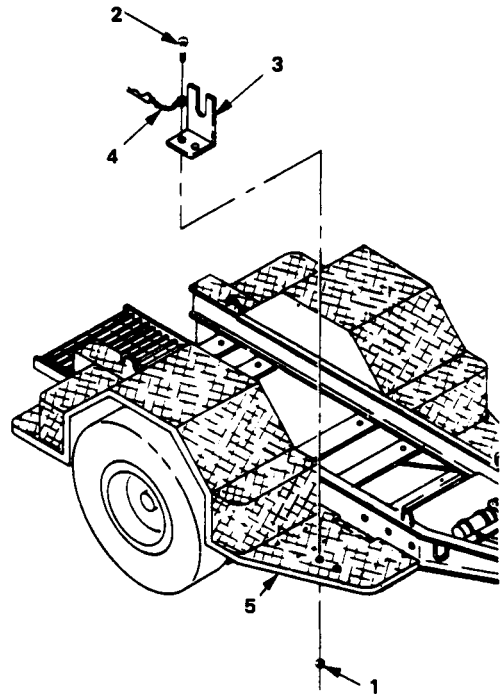
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INSTALLATION

---

INSTALL PULLER BRACKET.

Place puller bracket (3) over mounting holes on curbside front step (5). Secure chain (4) to left hand screw (2) and install two screws (2) and nuts with captive washer (1).



NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF FENDER AND WALKWAY

---

---

4-42. REPLACE FRONT STEP, CURBSIDE AND ROADSIDE

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Step Front Curbside  
97403-13228E3389  
Step Front Roadside  
97403-13228E1903  
Spacer Plates  
97403-13228E1267-1 and -2

Equipment Conditions:

Reference  
Para. 4-12 Remove Battery Box.  
Para. 4-41 Remove Puller-Bracket.  
Para. 4-53 Remove Fire Extinguisher  
Bracket.  
TM9-2330-205-14&P  
Remove Handbrake Cover Assembly  
Section IX.

---

General Safety Instructions

**WARNING**

Due to the bulk and weight of the front steps, a minimum of two persons are required to move them. Failure to do so could result in serious injury.

When removing mounting hardware brace or hold the step so it will not drop.

---

REMOVAL

---

1. REMOVE FRONT STEP ROADSIDE.
  - a. Remove four 1-3/4 inch screws (1), eight flat washers (2) and four self-locking nuts (3).
  - b. Remove two 1-inch screws (4), four flat washers (5) and two self-locking nuts (6).
  - c. Remove 1-1/4 inch screw (7), two flat washers (8) and self-locking nut (9).

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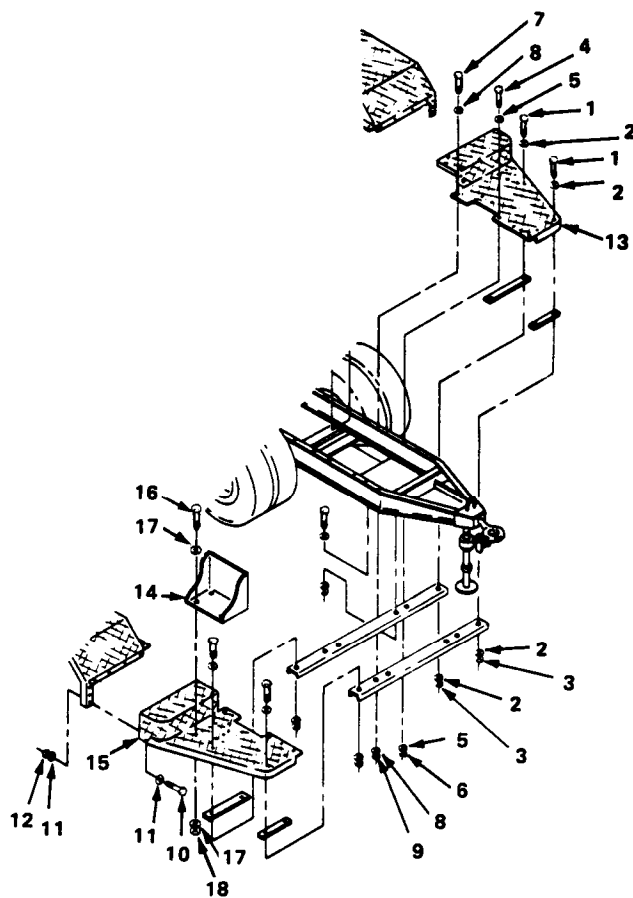
4-42. REPLACE FRONT STEP, CURBSIDE AND ROADSIDE (cont)

---

- d. Remove seven 1-inch screws (10), 14 flat washers (11) and seven self-locking nuts (12) and remove roadside front step (13).

2. REMOVE FRONT STEP CURBSIDE.

- a. Remove two gas can brackets (14) from curbside front step (15) by removing eight screws (16), 16 flat washers (17) and eight self-locking nuts (18).
- b. Perform steps 1a through 1d above to remove the curbside front step (15).



---

INSTALLATION

---

1. INSTALL FRONT STEP, ROADSIDE.

- a. Install roadside front step (13) with four 1-3/4 inch screws (1), eight flat washers (2) and four self-locking nuts (3).
- b. Install seven 1-inch screws (10), 14 flat washers (11) and seven self-locking nuts (12).
- c. Install two 1-inch screws (4), four flat washers (5) and two self-locking nuts (6).
- d. Install 1-1/4 inch screw (7), two flat washers (8) and self-locking nut (9).

2. INSTALL FRONT STEP, CURBSIDE.

- a. Perform steps 2a through 2d, above, to install the curbside front step (15).
- b. Install gas can brackets (14) by installing eight screws (16), 16 flat washers (17) and eight self-locking nuts (18).

---

4-42. REPLACE FRONT STEP, CURBSIDE AND ROADSIDE (cont)

---

NOTE

FOLLOW ON MAINTENANCE:

Replace Handbrake Lever Assembly  
(TM9-2330-205-14&P, Section IX).  
Install Fire Extinguisher Bracket  
(Para. 4-53).  
Install Puller Bracket (Para.  
4-41).  
Install Battery Box (Para. 4-12).

---

MAINTENANCE OF FENDER, ROADSIDE, CURBSIDE

---

---

4-43. REPLACE FENDER, ROADSIDE AND CURBSIDE

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Fender, Roadside  
97403-13214E1264  
Fender, Curbside  
97403-13214E1263

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

---

General Safety Instructions

**WARNING**

Due to the bulk and weight of the fenders, a minimum of two persons are required to move them. Failure to do so could result in serious injury.

When removing mounting hardware brace or hold the step so it will not drop.

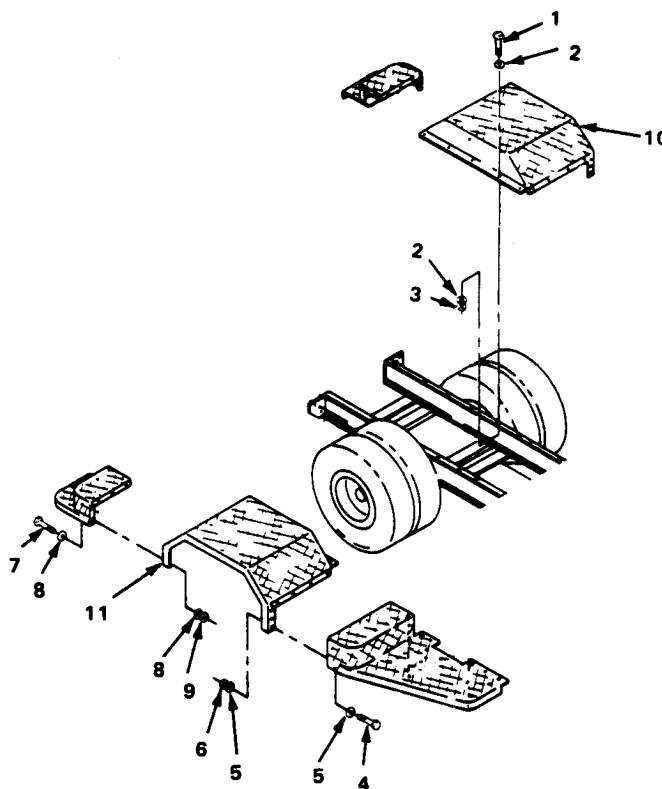
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REMOVAL

---

1. REMOVE FENDER, ROADSIDE.
  - a. Remove five 1-1/4 inch screws (1), 10 flat washers (2) and five self-locking nuts (3).
  - b. Remove seven 1-inch screws (4), 14 flat washers (5) and seven self-locking nuts (6).
  - c. Remove five 1-inch screws (7), flat washers (8) and five self-locking nuts (9) and remove roadside fender (10).
2. REMOVE FENDER, CURBSIDE.
  - a. Perform steps 1a through 1c, above, to remove curbside fender (11).



---

4-43. REPLACE FENDER, ROADSIDE AND CURBSIDE (cont)

---

---

INSTALLATION

---

1. INSTALL FENDER, ROADSIDE.

- a. Set roadside fender (10) into position and hold in place.
- b. Install five 1-inch screws (7), 10 flat washers (8) and five self-locking nuts (9).
- c. Install seven 1-inch screws (4), 14 flat washers (5) and seven self-locking nuts (6).
- d. Install five 1-1/4 inch screws (1), 10 flat washers (2) and five self-locking nuts (3).

2. INSTALL FENDER, CURBSIDE.

Perform steps 1a through 1d to install curbside fender (11).

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF REAR STEP, ROADSIDE, CURBSIDE

---

---

4-44. REPLACE REAR STEP, ROADSIDE AND CURBSIDE

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Step Rear, Roadside  
97403-13214E1876  
Step Rear, Curbside  
97403-13214E1259

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

---

General Safety Instructions

**WARNING**

Due to the bulk and weight of the rear steps, a minimum of two persons are required to move them. Failure to do so could result in serious injury.

When removing mounting hardware, brace or hold the step so it will not drop.

---

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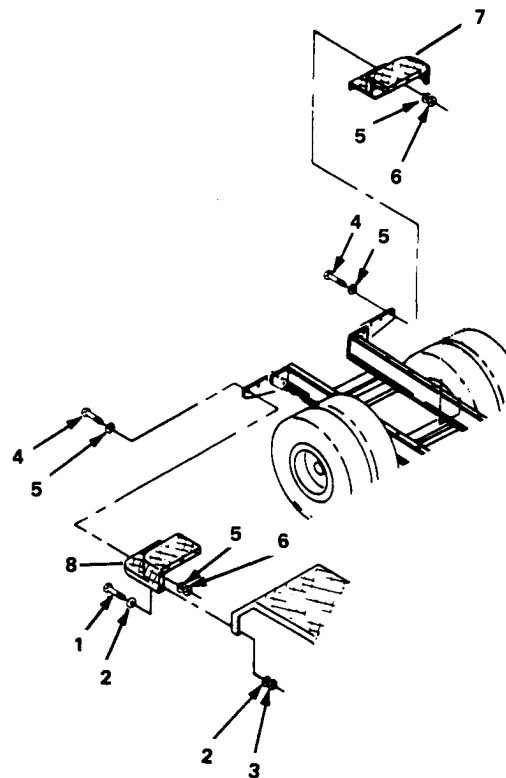
REMOVAL

---

1. REMOVE REAR STEP, ROADSIDE.
  - a. Remove ten 1-inch screws (1), 20 flat washers (2) and 10 self-locking nuts (3).
  - b. Remove five 1-inch screws (4), 10 flat washers (5) and self-locking nuts (6) and remove roadside rear step (7).

2. REMOVE REAR STEP, CURBSIDE.

Perform steps 1a and 1b to remove curbside rear step (8).





---

4-44. REPLACE REAR STEP, ROADSIDE AND CURBSIDE (cont)

---

---

INSTALLATION

---

1. INSTALL REAR STEP, ROADSIDE.
  - a. Place roadside rear step (7) into position and hold in place.
  - b. Install five 1-inch screws (4), 10 flat washers (5) and five self-locking nuts (6).
  - c. Install ten 1-inch screws (1), 20 flat washers (2) and 10 self-locking nuts (3).

2. INSTALL REAR STEP, CURBSIDE.

Perform steps 1a through 1c to install curbside rear step (8).

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF PLATFORM, TAIL GATE

---

---

4-45. REPLACE PLATFORM TAILGATE

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Platform, Tail Gate  
97403-13214E1298

Equipment Conditions:

Reference  
Para. 4-9. General Instructions.

---

General Safety Instructions

**WARNING**

Due to the bulk and weight of the tail gate, a minimum of two persons are required to move it. Failure to do so could result in serious injury.

When removing mounting hardware brace or hold the step so it will not drop.

---

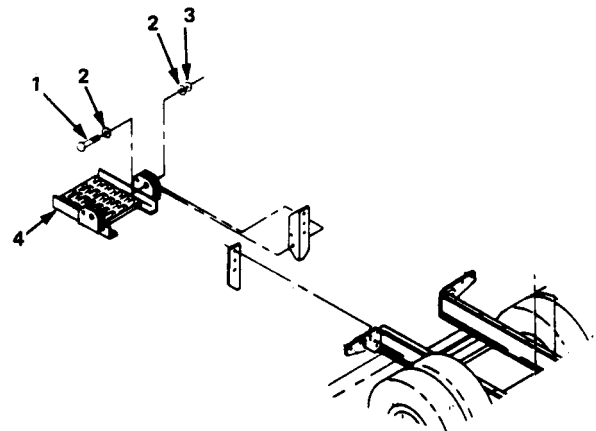
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REMOVAL

---

REMOVE PLATFORM TAIL GATE.

Remove two screws (1), four flat washers (2) and two self-locking nuts (3) and remove tailgate platform (4).



---

INSTALLATION

---

INSTALL PLATFORM TAIL GATE.

- Position tailgate platform (4) into place where the mounting holes line up.
- Install two screws (1), four flat washers (2) and two self-locking nuts (3).

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF CABLE STORAGE PAN

---

4-46. REPLACE CABLE STORAGE PAN

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Pan, Cable Storage  
97403-13228E3402  
Bracket, Cable Pan  
97403-13228E3399

---

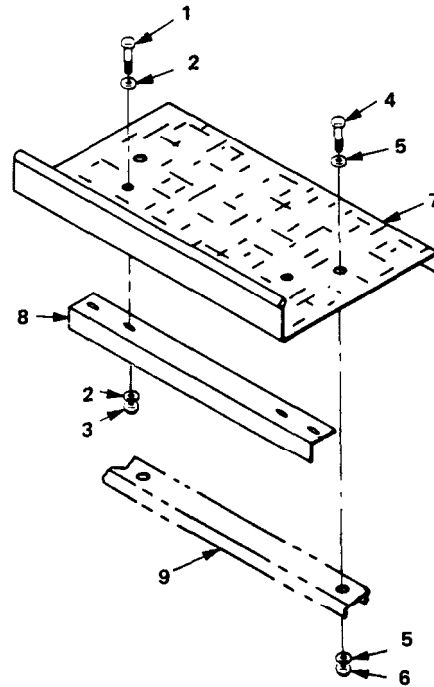
---

REMOVAL

---

REMOVE CABLE STORAGE PAN.

- a. Remove two 1-inch screws (1), four flat washers (2) and two nuts (3).
- b. Remove two 1-3/4 inch screws (4), four flat washers (5) and two nuts (6) and remove cable storage pan (7).



---

INSTALLATION

---

INSTALL CABLE STORAGE PAN.

- a. Mount cable storage pan (7) to bracket (8) by installing two screws (1), four flat washers (2) and two nuts (3).
- b. Mount cable storage pan (7,) to trailer chassis (9) by installing two 1-3/4 inch screws (4), four flat washers (5) and two nuts (6).

**TM5-6115-634-14&P**  
**NAVFAC P-8-647-14&P**  
**T0-35C2-3-445-14**  
**TM-6115-14&P/1**

---

4-46. REPLACE CABLE STORAGE PAN (cont)

---

NOTE

FOLLOW ON MAINTENANCE: Connect  
Negative Battery Cable (Para.  
4-10).

MAINTENANCE OF REMOTE CONTROL UNIT

4-47. TEST AND REPLACE REMOTE CONTROL UNIT

This task covers: a. Test  
 b. Replacement

INITIAL SETUP

Tools

General Mechanic's Tool Kit  
 5180-00-177-7033

Equipment Conditions:

Reference  
 Para. 2-5 Single Unit Operating Procedures.

Materials/Parts

Remote Control Unit  
 97403-13228E1869  
 Control Cable, 100 ft.  
 97403-13228E1946

TEST

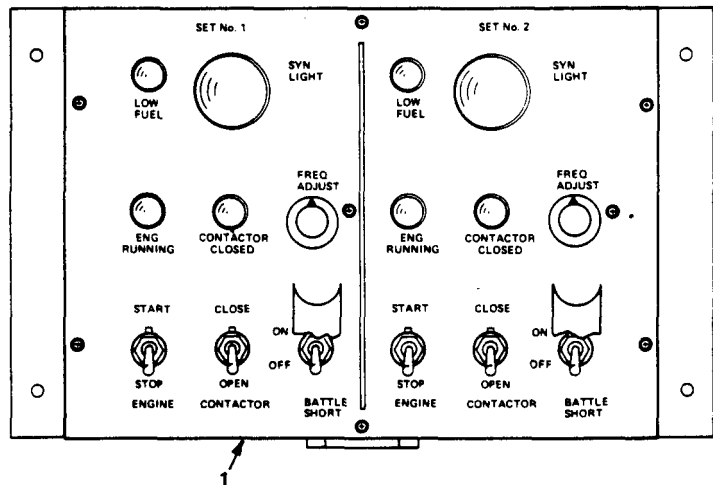
TEST REMOTE CONTROL UNIT.

Operate the generator from the remote control unit (1). All controls and indicators should function as described in operating procedures. Shut down the generator.

REPLACEMENT

REPLACE REMOTE CONTROL UNIT.

If any control or indicator does not function, replace the remote control unit (1) by disconnecting the control cable from the bottom of the unit.





---

4-48. TEST AND REPLACE CONTROL CABLE (cont)

---

---

INSTALLATION

---

INSTALL 100 FT, CONTROL CABLE.

Connect control cable connectors to the junction box and to the remote control unit. Refer to Figures 2-3 and 2-5.

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).





---

4-49. TEST AND REPLACE POWER CABLE, 25 FT. (cont)

---

---

INSTALLATION

---

INSTALL 25 FT. POWER CABLE.

Connect power cable connectors to the junction box on the first PU and to the connector plate on the second PU.

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF POWER CABLE, 5 FT.

---

---

4-50. TEST POWER CABLE, 5 FT.

---

This task covers: a. Test

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
Multimeter  
6625-01-139-2512

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Power Cable, 5 ft.  
97403-13228E1944-1

---

---

TEST

---

TEST POWER CABLE, 5 FT.

- a. Use a multimeter and test for pin-to-pin continuity (0 ohms). Test for open circuit (infinite ohms) between each pin and pin-to-connector at both ends of the cable.
- b. If an open or short occurs within the cable assembly, replace the cable.

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF CONTROL CABLES, 5 FT. AND 25 FT.

---

---

4-51. TEST CONTROL CABLE, 5 FT. AND 25 FT.

---

This task covers: a. Test

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
Multimeter  
6625-10-139-2512

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Control Cable, 5 ft.  
97403-13228E1945-1  
Control Cable, 25 ft.  
97403-13228E1945-2

---

---

TEST

---

TEST CONTROL CABLE, 5 FT. AND 25 FT.

- a. Use a multimeter and test for pin-to-pin continuity (0 ohms). Test for open circuit (infinite ohms) between each pin and pin-to-connector at both ends of the cable.
- b. If an open or short occurs within either cable assembly, replace the cable.

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF CABLE PARALLELING

---

---

4-52. TEST PARALLELING CABLE

---

This task covers: a. Test

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
Multimeter  
6625-01-139-2512

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Paralleling Cable  
97403-13228E1947

---

---

TEST

---

TEST PARALLELING CABLE.

- a. Use a multimeter and test for pin-to-pin continuity (0 ohms). Test for open circuit (infinite ohms) between each pin and pin-to-connector at both ends of the cable.
- b. If an open or short occurs within the cable assembly, replace the cable.

NOTE

FOLLOWON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF EXTINGUISHER, FIRE

---

---

4-53. REPLACE FIRE EXTINGUISHER

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

Materials/Parts

Bracket, Fire Ext.  
97403-13214E1235  
Extinguisher, Fire  
97403-13228E3394

---

---

REMOVE

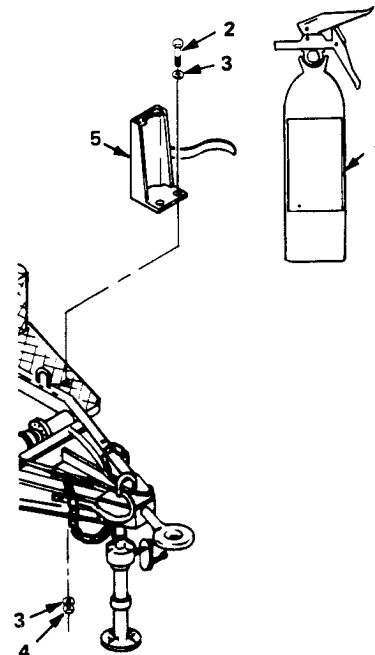
---

1. REMOVE FIRE EXTINGUISHER.

Unstrap fire extinguisher (1) and remove.

2. REMOVE FIRE EXTINGUISHER BRACKET.

Remove two screws (2), four flat washers (3) and two self-locking nuts (4) and remove fire extinguisher bracket (5).



---

INSTALLATION

---

1. INSTALL FIRE EXTINGUISHER BRACKET.

Install fire extinguisher bracket (5) with two screws (2), four flat washers (3) and two self-locking nuts (4).

2. INSTALL FIRE EXTINGUISHER.

Set fire extinguisher (1) into bracket and close strap.

---

4-53. REPLACE FIRE EXTINGUISHER (cont)

---

NOTE

FOLLOW ON MAINTENANCE: Connect  
Negative Battery Cable (Para.  
4-20) .

CHAPTER 5

INTERMEDIATE DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

CHAPTER INDEX

Subject Index	Page
Repair Parts, Special Tools, Test, Measurement and Diagnostic Equipment (TMDE) and Support Equipment	5-1
Preventive Maintenance Checks and Services	5-1
Troubleshooting	5-1
Maintenance Procedures	5-6
Preparation for Storage and Shipment	5-61

Section I. REPAIR PARTS, SPECIAL TOOLS, TEST, MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE) AND SUPPORT EQUIPMENT

5-1. General

This chapter provides instructions for intermediate direct support maintenance on the PU 794/G as authorized by the Maintenance Allocation Chart (MAC), Appendix B. Refer to TM5-6115-464-34 for maintenance tasks performed on the Generator Set.

TM9-2330-205-14&P for generator set and trailer TMDE.

5-3. Repair Parts

Repair parts are listed and illustrated in the Repair Parts and Special Tools List (RPSTL), Appendix F. See TM5-6115-464-24P and TM9-2330-205-14&P for generator set and trailer repair parts.

5-2. Special Tools and Equipment

Test, measurement and diagnostic equipment (TMDE) and support equipment including electrical test equipment and standard gages are listed in Appendix B, Section III. Refer to TM5-6115-464-24P and

5-4. Fabricated Tools and Equipment

No fabricated tools and equipment are required for intermediate direct support maintenance on the PU 794/G.

Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

5-5. General

Preventive maintenance checks and services are performed by unit maintenance personnel. Refer to Chapter 4 for instructions.

Section III. TROUBLESHOOTING

5-6. General

This section contains troubleshooting and corrective actions performed at the intermediate direct support maintenance level as authorized by the MAC, Appendix B.

5-7. Troubleshooting

Table 5-1 lists the common malfunctions of the PU 794/G that must be corrected at the intermediate direct support maintenance level. Refer to TM5-6115-464-34

for troubleshooting the generator set diesel engine and main generator assembly, and TM9-2330-205-14&P for troubleshooting the trailer. Fold outs F0-2 through

F0-6 are troubleshooting schematic diagrams for use as necessary during troubleshooting.

Table 5-1. TROUBLESHOOTING

MALFUNCTION	TESTOR INSPECTION	CORRECTIVE ACTION
1. REMOTE CONTROL UNIT INOPERATIVE		<p>Refer to para. 5-29 and test remote control unit.</p> <p>Replace faulty components.</p>
2. REMOTE FUNCTIONS BOX ASSEMBLY INOPERATIVE		<p>Step 1. Refer to para. 5-20 and test for continuity in wiring harness from J29B to J29C.</p> <p>If open circuits exist, replace the wiring harness.</p> <p>Step 2. Refer to para. 5-19, and test for continuity in the wiring harness from J29A to J29 and JA.</p> <p>If open circuits exist, replace the wiring harness.</p> <p>Step 3. Refer to para. 5-22, and test relays KA, KB, KC, KD and KE.</p> <p>Replace faulty relay.</p> <p>If relays are functional and fault still exists, replace the remote functions box assembly.</p>
3. SPECIAL RELAY ASSEMBLY INOPERATIVE		<p>Step 1. Refer to para. 5-25 and test special relay assembly.</p> <p>If faulty components are found, send to intermediate general support maintenance.</p> <p>Step 2. Refer to figure 5-1, and test for continuity in wiring from connector JA to TB102 and A5.</p> <p>If an open circuit exists, repair wiring as necessary.</p> <p>Step 3. Refer to figure 5-1, and check for continuity in wiring between connectors, terminal boards and switches.</p> <p>If an open circuit exists, repair or replace the special relay assembly.</p>



WIRE RUNNING LIST				
WIRE MARKING	TERMINATION		WIRE LENGTH REF	MARKING COLOR
	FROM	TO		
X17C18	J10-D	J50-T	28.50	BLACK
X7A18A	J10-E	TB102-6	14.75	BLACK
X8B18B	J10-F	TB102-5	14.75	BLACK
XN14B18	J10-G	TB102-7	32.50	BLACK
X15B18	J10-H	TB102-8	16.00	BLACK
X18C18	J10-J	J50-U	28.50	BLACK
X16B18	J10-L	J2-I	26.00	BLACK
X195D18	J10-V	TB102-13	17.25	BLACK
X194E18	J10-W	TB102-16	18.75	BLACK
X9A16C	J10-e	TB102-1	13.25	BLACK
X12B16N	J10-f	TB102-3	13.25	BLACK
X19C18	J10-k	J50-V	28.50	BLACK
X97A18	J10-M	R29-C	7.25	BLACK
X98N18	J10-N	TB101-16	17.50	BLACK
P50S18	J10-a	TB101-3	10.75	RED
P50N18	J10-c	TB101-5	12.50	RED
P56H18	J10-d	TB101-7	17.50	RED
K112G18	J10-j	TB101-15	17.50	BLACK
P55M12	J10-Q	E4-A	8.25	RED
P55CR18	J10-Z	E4-A	7.25	RED
X21T18	J10-X	A5-20	24.00	BLACK
X22T18	J10-Y	A5-7	26.00	BLACK
X6D18	J10-g	A5-18	24.75	BLACK
K110F18	J10-h	J31-G	23.75	BLACK
X96B18	J15-A	TB101-17	9.75	BLACK
X98H18	J15-B	TB101-16	8.25	BLACK
K111E18	J15-C	TB101-14	8.25	BLACK
K112A18	J15-D	TB101-15	8.25	BLACK
X96C18	J15-E	TB101-17	6.75	BLACK
X98J18	J15-F	TB101-16	6.75	BLACK
K111F18	J15-G	TB101-14	5.50	BLACK
K112B18	J15-H	TB101-15	6.00	BLACK
X96D18	J15-J	TB101-17	6.00	BLACK
X98K18	J15-K	TB101-16	6.75	BLACK
K111G18	J15-L	TB101-14	8.25	BLACK
K112C18	J15-M	TB101-15	6.00	BLACK

WIRE RUNNING LIST				
WIRE MARKING	TERMINATION		WIRE LENGTH REF	MARKING COLOR
	FROM	TO		
X12B16N	J15-P	TB102-3	9.75	BLACK
X9YY16C	J15-S	TB102-2	9.75	BLACK
X9L18C	J31-A	TB102-2	15.25	BLACK
X12W18N	J31-B	TB102-4	15.25	BLACK
X15H18N	J31-R	TB102-8	13.00	BLACK
P200L18	J31-K	TB102-19	8.50	RED
P50Y18	J31-E	TB101-5	13.00	RED
K111D18	J31-J	TB101-14	7.50	BLACK
P55R18	J31-D	E4-B	8.50	RED
P55PP18	J31-Z	E4-B	8.50	RED
P204B18	J31-F	J6-G	15.50	RED
KN32A18	J31-M	TB102-10	23.50	BLACK
KN33A18	J31-N	TB102-12	22.75	BLACK
KN34A18	J31-T	TB102-9	23.50	BLACK
P210B18	J31-V	J6-N	15.50	RED
P40D18	J29-A	TB101-1	22.50	RED
P45H18	J29-D	TB101-11	17.75	RED
P47H18	J29-F	TB101-9	19.00	RED
P44G18	J29-G	TB101-10	17.75	RED
P56E18	J29-H	TB101-13	17.75	RED
P55P18	J29-E	E4-B	5.25	RED
P55D12	J7-A	E4-A	7.50	RED
P51A18	J7-B	TB102-18	31.50	RED
V64B12	J7-C	TB101-19	25.00	RED
V65B12	J7-D	TB101-18	25.00	RED
P141B12	J7-E	R13-2	5.00	RED
P45J18	J6-A	TB101-11	24.50	RED
P200B18	J6-C	TB102-20	21.00	RED
P208B18	J6-L	A5-17	17.25	RED
P66A18	J6-B	A5-3	18.50	RED
X96A18	TB101-17	T101-2	22.25	BLACK
P47E18	TB101-8	A5-16	19.50	RED
P50L18	TB101-5	A5-21	22.50	RED
P40F18	TB101-2	A5-1	28.50	RED
P200J18	TB102-19	A5-5	20.75	RED
P51E18	TB102-18	A5-24	18.00	RED

Figure 5-1. Special Relay Assembly Wiring Harness (Sheet 1 of 3)

WIRE RUNNING LIST				
WIRE MARKING	TERMINATION		WIRE LENGTH REF	MARKING COLOR
	FROM	TO		
X194D18	TB102-16	R29-2	11.50	BLACK
X90D18	TB102-15	R31-2	10.00	BLACK
X90E18	TB102-15	T101-3	18.00	BLACK
X197E18	TB102-14	R31-1	11.25	BLACK
X197F18	TB102-14	T101-4	19.00	BLACK
X195E18	TB102-13	R29-1	10.75	BLACK
X195F18	TB102-13	T101-1	19.00	BLACK
X9Z18C	TB102-1	A5-22	26.50	BLACK
P55C18	A5-15	E4-B	19.50	RED
P49A18	A5-9	K3-X1	21.25	RED
P55F18	K3-X2	E4-A	15.25	RED
P140D12	K3-A1	R13-1	5.50	RED
P55TT12	E4-A	E4-B	30.00	RED
D13A18	R35-1	A5-14	19.25	RED
PN3A18	J29-K	TB101-7	20.50	RED
PN1A18	J29-J	TB101-12	19.00	RED
PN2A18	J29-M	TB101-20	18.50	RED
PN5A18	J29-N	TB102-17	23.50	RED
PN4A18	J29-P	TB101-8	23.00	RED
KN34C18	JA-A	TB102-9	10.50	BLACK
KN32B18	JA-B	TB102-10	10.00	BLACK
KN1B18	JA-C	TB102-11	9.50	BLACK
KN33C18	JA-D	TB102-12	9.00	BLACK
XN14C18	JA-E	TB102-7	11.50	BLACK
LN25A18	JA-F	A5-19	20.50	BLACK
D20C18	J2-A	J10-A	26.00	BLACK
D21C18	J2-B	J10-B	26.00	BLACK
D22C18	J2-C	J10-C	26.00	BLACK
P199C18	J2-a	J10-b	26.00	RED
D24C18	J2-D	J50-d	16.50	BLACK
X7C18A	J2-E	TB102-6	15.25	BLACK
X8E18B	J2-F	TB102-5	17.50	BLACK
X15C18	J2-H	TB102-8	15.25	BLACK
X9C18C	J2-z	TB102-1	17.50	BLACK
X12C18N	J2-y	TB102-3	17.50	BLACK
X195C18	J2-f	TB102-13	12.00	BLACK

WIRE RUNNING LIST				
WIRE MARKING	TERMINATION		WIRE LENGTH REF	MARKING COLOR
	FROM	TO		
X197C18	J2-n	TB102-14	12.00	BLACK
X90F18	J2-U	TB102-15	12.00	BLACK
X194C18	J2-P	TB102-16	12.00	BLACK
P40K18	J2-u	TB101-1	17.50	RED
P40J18	J2-v	TB101-2	17.50	RED
P50J18	J2-w	TB101-3	16.75	RED
P80C18	J2-m	TB101-6	16.75	RED
P57E18	J2-t	J31-L/91	17.75	RED
P47G18	J2-e	TB101-9	15.50	RED
P44D18	J2-g	TB101-10	14.00	RED
P45G18	J2-R	TB101-11	14.00	RED
P56D18	J2-k	TB101-13	11.25	RED
P62B18	J2-h	TB101-20	11.25	RED
L25C18	J2-J	A5-19	12.75	BLACK
L26C18	J2-K	A5-8	13.00	BLACK
X91C18	J2-L	J3-A	25.00	BLACK
KN1A18	J2-M	TB102-11	18.50	BLACK
KN33B18	J2-N	TB102-12	18.25	BLACK
L93D18	J2-b	J31-P	17.75	BLACK
KN34B18	J2-T	TB102-9	19.75	BLACK
X29C18	J2-S	J29-B	9.00	BLACK
X31C18	J2-O	J29-C	9.00	BLACK
P198C18	J2-c	J5-G	25.75	RED
P46C18	J2-x	J5-H	25.75	RED
E39C18	J2-V	J5-I	25.75	RED
E38C18	J2-W	J5-J	25.75	RED
EN37A18	J2-X	TB102-17	20.50	RED
E35C18	J2-Y	R13-4	22.25	RED
E36C18	J2-Z	R13-3	22.25	RED
P55G18	J2-P	E4-B	8.00	RED
P55VV18	J2-r	E4-B	8.00	RED
P207B18	J5-A	J6-K	23.50	RED
P202B18	J5-B	J6-E	23.50	RED
P201B18	J5-C	J6-D	23.50	RED
P44E18	J5-D	TB101-12	19.25	RED
P40B18	J5-M	TB101-1	19.50	RED

Figure 5-1. Special Relay Assembly Wiring Harness (Sheet 2 of 3)



**TM5-6115-634-14&P**  
**NAVFAC P-8-647-14&P**  
**T0-35C2-3-445-14**  
**TM-6115-14&P/1**

Section IV. MAINTENANCE PROCEDURES

5-8. General

This section provides PU 794/G maintenance procedures for intermediate direct support (DS) maintenance personnel.

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MAINTENANCE OF GENERATOR SET, 20 KW

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---

5-9. TEST GENERATOR SET 20 KW

---

This task covers: Test

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Fuel/oil

Equipment Conditions:

Reference  
TM5-6115-464-34.

General Safety Instructions

**CAUTION**

Prior to performing any operational test, ensure that the generator set is serviced with the correct fuel, oil and coolant as listed on the data plate.

---

TEST

---

Test the Generator Set, 20 kW, in accordance with Chapter 7 of TM5-6115-464-34. The rated load for this generator set is 20 kW.



---

5-10. REPAIR INTAKE BAFFLE (cont)

---

baffle housing (8) will be removed only when found damaged.

---

REPAIR

---

Repair of the grid screen, end and center baffles and gaskets is accomplished by replacement.

---

INSTALLATION

---

- a. Install gasket material as required.
- b. Install center (7) and end (6) baffles by sliding into baffle housing (8).
- c. Install grid screen (5) by installing 10 screws (1) flat washers (2), lock washers (4) and nuts (5).

NOTE

FOLLOW ON MAINTENANCE: Install Baffle Assembly Intake (Para. 4-14) .

---

MAINTENANCE OF THE ACCESS DOORS

---

---

5-11. REPAIR OF THE ACCESS DOORS

---

This task covers: Repair

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
#1 Common Tool Kit  
TBD

Equipment Conditions:

Reference  
Para. 4-18 Remove Access Door.

Materials/Parts

Door, Access  
97403-13228E3363-2  
Seal, Door  
30554-69-771

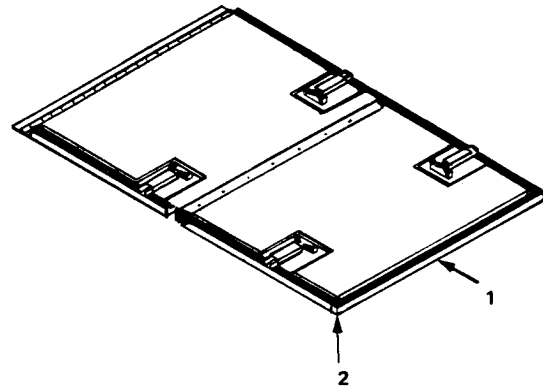
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---

REPAIR

---

1. REPAIR THE ACCESS DOORS.
  - a. Remove any dents or bends from the access doors (1).
  - b. Replace torn or deteriorated door seals (2).



NOTE

FOLLOW ON MAINTENANCE: Install Access Door (Para. 4-18).





---

5-12. REPAIR OF GENERATOR SET TOP REAR COVER (cont)

---

---

INSTALLATION

---

1. INSTALL INSULATION.
  - a. Install two pieces of insulation (5) by sliding into housing (3).
  - b. Install insulation (6) and (7) by sliding into housing (3).
  - c. Install insulation (4) and retainer bracket (2) by sliding into housing (3).
  - d. Install seven rivets (1).

NOTE

FOLLOW ON MAINTENANCE: Install Top Rear Cover (Para. 4-20).

---

MAINTENANCE OF GENERATOR SET REAR HOUSING, FRAME

---

---

5-13. REPAIR OF REAR HOUSING FRAME

---

This task covers: a. Inspection  
b. Repair

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Equipment Conditions:

Reference  
Para. 4-21 Remove Rear Housing  
Frame.

Materials/Parts

Housing Generator Set Rear Frame  
97403-13228E1901

---

---

INSPECTION

---

INSPECT REAR HOUSING.

- a. Visually inspect all weld nuts for stripped threads.
- b. Visually inspect rear housing (1) for bends or cracks.

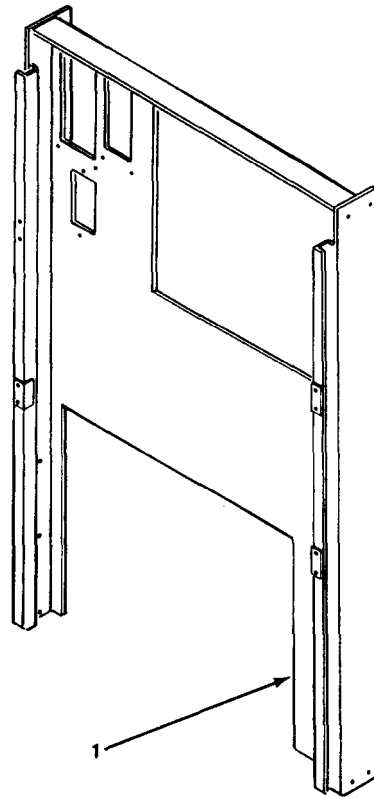
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REPAIR

---

REPAIR REAR HOUSING FRAME.

- a. Use standard shop practice for correcting any defects found under inspection.
- b. Repair of the rear housing frame (1) is accomplished by replacement.



NOTE

FOLLOW ON MAINTENANCE: Install  
Rear Housing Frame (Para. 4-21).

---

MAINTENANCE OF EXHAUST BAFFLE ASSEMBLY

---

---

5-14. REPAIR OF EXHAUST BAFFLE ASSEMBLY

---

This task covers: Repair

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
#1 Common Tool Kit  
TBD

Equipment Conditions:

Reference  
Para. 4-22 Remove Exhaust  
Baffle Assembly.

Materials/Parts

Housing, Baffle  
97403-13228E1959  
Gasket  
97403-13228E1940  
Flange, Top  
97403-13228E1964  
Flange, Side  
97403-13228E1965 (2 ea)  
Flange, Bottom  
97403-13228E1966  
Baffle Bar  
97403-13228E1960  
Channel, End Baffle  
97403-13228E3366-2  
Hang Plate  
97403-13228E1963  
Baffle, Center  
97403-13228E1962

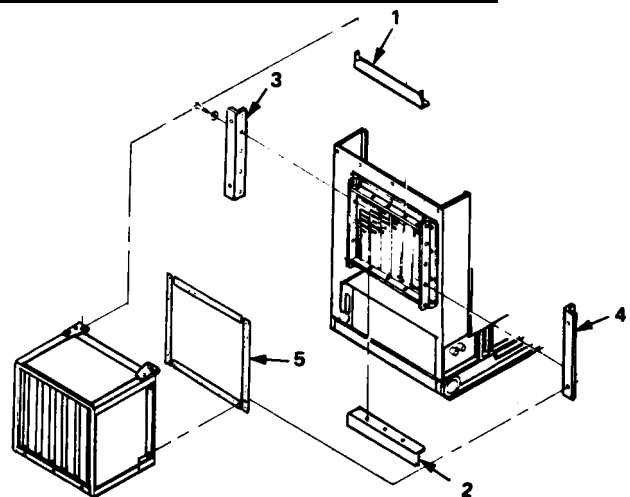
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REPAIR

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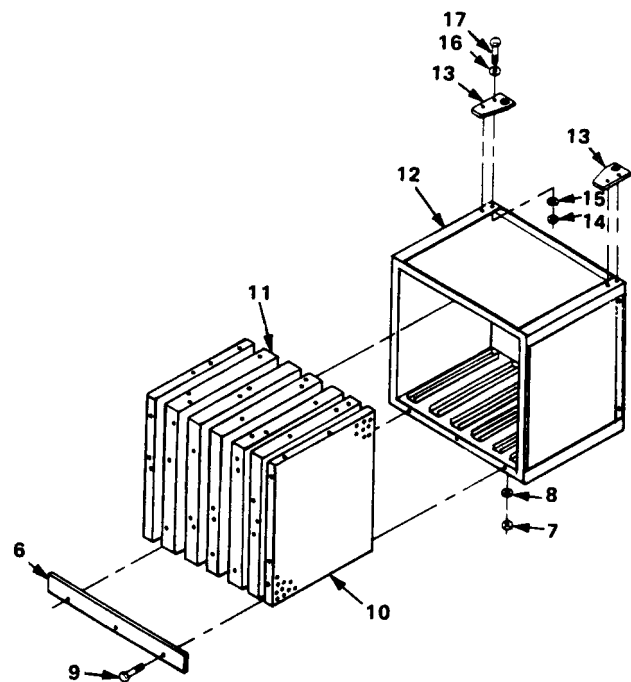
REPAIR THE EXHAUST BAFFLE ASSEMBLY.

- a. The top flange (1), bottom flange (2) and side flanges (3, 4) are repaired by welding, straightening and other normal maintenance shop procedures.
- b. Repair the baffle assembly gasket (5) by replacing it with a new gasket.



5-14. REPAIR OF EXHAUST BAFFLE ASSEMBLY (cont)

- c. Replace all damaged mounting hardware.
- d. Remove baffle bar (6) by removing three nuts (7), washers (8) and screws (9).
- e. Remove two end baffles (10) and five center baffles (11) from baffle housing (12).
- f. Replace with new parts as required.
- g\* Remove two hang plates (13) by removing four nuts (14), lock-washers (15), flat washers (16) and screws (17) from the baffle housing assembly (12).
- h. Replace with new parts as required.



NOTE

FOLLOW ON MAINTENANCE: Install Exhaust Baffle Assembly (Para. 4-22) .



---

5-15. REPAIR GENERATOR SET TOP FRONT (cont)

---

---

REPAIR

---

1. REPAIR INSULATION.

Repair of all insulation is accomplished by replacement.

2. REPAIR DOOR ACCESS.

Repair is accomplished by replacement.

---

INSTALLATION

---

1. INSTALL INSULATION.

- a. Install insulation (8) by sliding into housing (10).
- b. Install insulation (9) by sliding into housing (10).
- c. Install insulation (6) and retainer bracket (5) by sliding into housing.
- d. Install seven rivets (7) into housing (10) and retainer bracket (5).

2. INSTALL ACCESS DOOR.

Install two screws (1), lock-washers (2) and nuts (3).

NOTE

FOLLOW ON MAINTENANCE: Install Top Front Cover (Para. 4-24).





---

5-16. REPAIR GENERATOR SET FRONT HOUSING (cont)

---

---

REPAIR

---

REPAIR FRONT HOUSING

- a. Use standard shop practice for correcting mechanical defects.
- b. Repair of the sound panels is accomplished by replacement.

---

INSTALLATION

---

INSTALL SOUND PANEL.

The sound panels (2) are adhesive backed with edge seal. Peel off the seal and press the panel into place.

NOTE

FOLLOW ON MAINTENANCE: Install Front Frame (Para. 4-25).

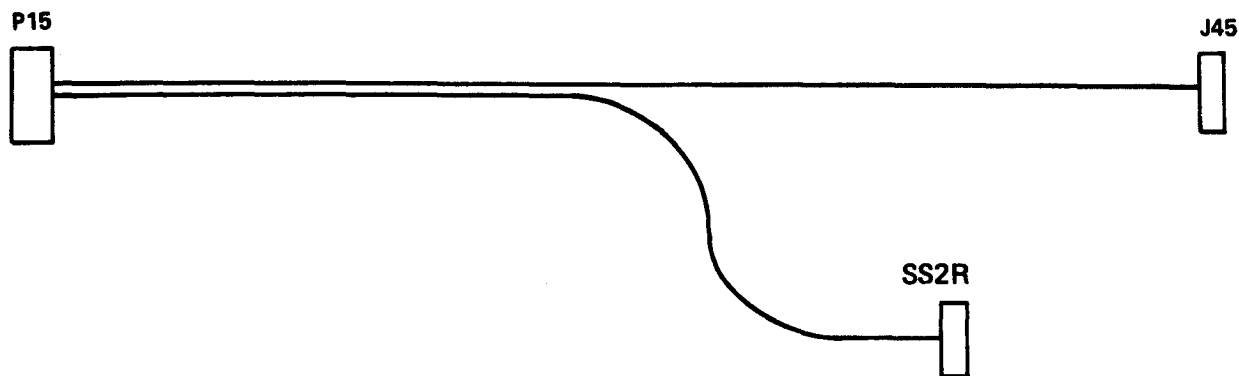


5-17. REPAIR OF CONTROL WIRING HARNESS (cont)

TEST

TEST CONTROL WIRING HARNESS.

- a. Use a multimeter and wire running list, test for pin-to-pin continuity. Also test for open circuit between each pin and pin-to-connector.
- b. When an open or short within the cable assembly occurs, repair or replace the wiring harness.



WIRE RUNNING LIST				
WIRE MARKING	TERMINATION		WIRE LENGTH REF.	MARKING COLOR
	FROM	TO		
XN96A16	P15-A	J45-D	43.25	WHT
XN98A16	P15-B	J45-C	43.25	WHT
KN111A16	P15-C	J45-B	43.25	WHT
KN112A16	P15-D	J45-A	43.25	WHT
XN12A16	P15-P	SS2R-2	26.75	WHT
XN9A16	P15-S	SS2R-1	26.75	WHT

**NOTE:**  
 UNUSED TERMINALS ARE NOT LISTED

---

5-17. REPAIR OF CONTROL WIRING HARNESS (cont)

---

---

REPAIR

---

REPAIR CONTROL WIRING HARNESS.

Use standard shop procedures when repairing the control wiring harness.

---

INSTALLATION

---

INSTALL THE CONTROL WIRING HARNESS.

- a. Install the control wiring harness by feeding connector P15 (1) up through the relay table and connect P-15 (1) to J15 (2) on the special relay assembly.
- b. Connect the SS2R connector (3) to the SS2P connector (4).
- c. Install the cable connector in the connector plate (5) and replace the nut on connector J45.

NOTE

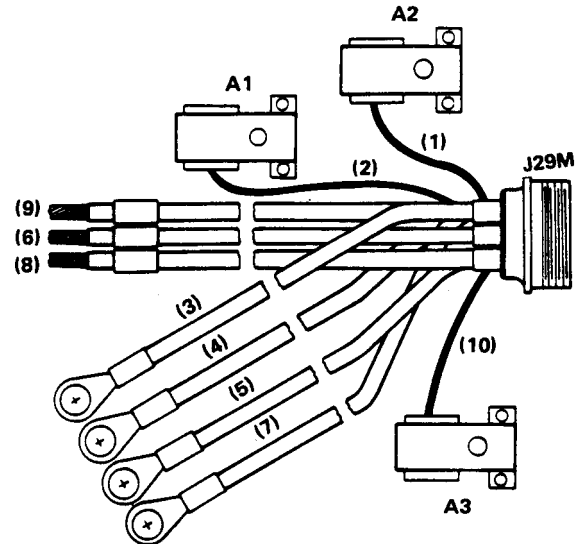
FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).



5-18. REPAIR OF POWER WIRING HARNESS (cont)

To avoid short circuits which could damage equipment or injure personnel, always disconnect negative battery cable before performing maintenance on the electrical system.

- e. Use a multimeter and test for continuity from all wire ends (individually) to the J29M connector (see wire list).
- f. Use multimeter and test connector pins A, B and C to housing of surge protectors A1, A2, and A3 for open condition. (see wire list)
- g. When an pin or short occurs within the cable assembly, repair or replace the wiring harness.



WIRE TABLE				
WIRE NO.	WIRE MARKING	TERMINATION		WIRE LENGTH ±.25
		FROM	TO	
1	—	A2	J29M-A	AR
2	—	A1	J29M-B	AR
3	XN21A4	J29M-A	LO	18.00
4	XN22A4	J29M-B	LO	18.00
5	XN23A4	J29M-C	LO	18.00
6	XN13B4N	J29M-D	L2	18.00
7	XN13C4N	J29M-E	LO	18.00
8	XN13D4N	J29M-F	L3	18.00
9	XN13E4N	J29M-G	L1	18.00
10	—	A3	J29M-C	AR

---

5-18. REPAIR OF POWER WIRING HARNESS (cont)

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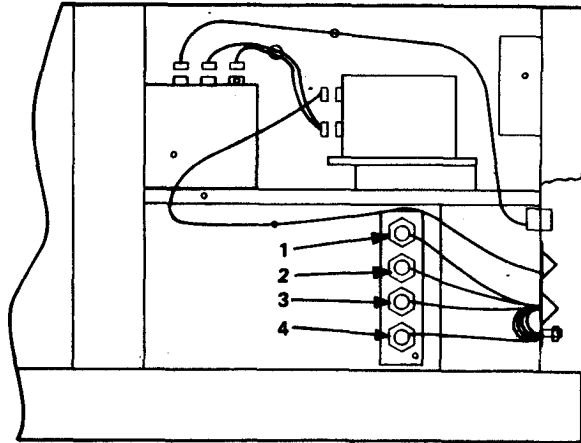
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REMOVAL

---

REMOVE POWER WIRING HARNESS FROM THE LOAD TERMINAL.

- a. Tag and remove the wire leads from the load terminal, L1 (1), L2 (2), L3 (3) and L0 (4).
- b. Remove the power connector J29M and the surge protectors A1, A2, A3 from the plate connector. Refer to para 4-17.



---

REPAIR

---

REPAIR WIRING HARNESS.

Use standard shop procedures when repairing the power wiring harness.

---

INSTALLATION

---

INSTALL THE POWER WIRING HARNESS.

- a. Refer to para 4-17 and install the power connector J29M and the surge protectors to the plate connector.
- b. Install the L1 (1), L2 (2), L3 (3) and L0 (4) wire leads to the load terminal.

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).



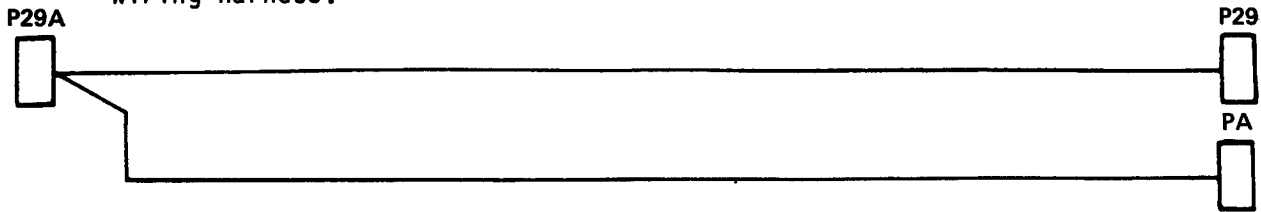


5-19. TEST AND REPLACE SPECIAL RELAY ASSEMBLY TO REMOTE FUNCTIONS BOX  
 ASSEMBLY WIRING HARNESS (cont)

TEST

TEST WIRING HARNESS.

- a. Use the wiring running list and multimeter to test for pin-to-pin continuity of the wiring harness.



WIRE RUNNING LIST				
WIRE MARKING	TERMINATION		WIRE LENGTH REF.	MARKING COLOR
	FROM	TO		
PN40A 16	P29A-A	P29-A	19-IN	WHT
PN44A 16	P29A-G	P29-G	19-IN	WHT
PN47A 16	P29A-F	P29-F	19-IN	WHT
PN1B 16	P29A-J	P29-J	19-IN	WHT
PN45A 16	P29A-D	P29-D	19-IN	WHT
PN2B 16	P29A-M	P29-M	19-IN	WHT
PN56A 16	P29A-H	P29-H	19-IN	WHT
PN3B 16	P29A-K	P29-K	19-IN	WHT
PN4B 16	P29A-P	P29-P	19-IN	WHT
PN55A 16	P29A-E	P29-E	19-IN	WHT
PN5B 16	P29A-N	P29-N	19-IN	WHT
KN34D 16	P29A-U	PA-A	15.5 IN	WHT
KN32C 16	P29A-V	PA-B	15.5-IN	WHT
KN1C 16	P29A-W	PA-C	15.5-IN	WHT
KN33D 16	P29A-X	PA-D	15.5-IN	WHT
XN14D 16	P29A-Y	PA-E	15.5-IN	WHT
LN25B 16	P29A-Z	PA-F	15.5-IN	WHT

**NOTE:**  
 UNUSED TERMINALS ARE NOT LISTED

---

5-19. TEST AND REPLACE SPECIAL RELAY ASSEMBLY TO REMOTE FUNCTIONS BOX  
ASSEMBLY WIRING HARNESS (cont)

---

- b. Use a multimeter and test for open circuit between pins and pin-to-connector.
- c. When opens or shorts occur, repair wiring harness.

---

REPAIR

---

REPAIR WIRING HARNESS.

- a. Use standard shop procedures when repairing the wiring harness.
- b. If not repairable, fabricate (see Appendix G).

---

INSTALLATION

---

INSTALL WIRING HARNESS.

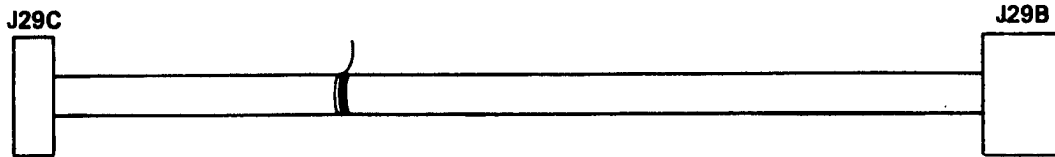
- a. Connect P29A (1) connector to the remote functions box assembly (2) at J29A (3).
- b. Install connectors P29 (4) and PA (5) to the special relay box (6) at J29 (7) and JA (8).

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).



5-20. TEST AND REPLACE REMOTE FUNCTIONS BOX ASSEMBLY TO CONNECTOR PANEL  
 WIRING HARNESS (cont)



WIRE RUNNING LIST				
WIRE MARKING	TERMINATION		WIRE LENGTH REF.	MARKING COLOR
	FROM	TO		
PN1F16	J29C-J	J29B-J	45-IN	WHT
PN40E16	J29C-A	J29B-A	45-IN	WHT
PN6B16	J29C-B	J29B-B	45-IN	WHT
PN7B16	J29C-C	J29B-C	45-IN	WHT
PN8B16	J29C-D	J29B-D	45-IN	WHT
PN9B16	J29C-E	J29B-E	45-IN	WHT
PN10B16	J29C-F	J29B-F	45-IN	WHT
PN4E16	J29C-P	J29B-P	45-IN	WHT
PN55F16	J29C-H	J29B-H	45-IN	WHT
PN5F16	J29C-K	J29B-K	45-IN	WHT
PN56E16	J29C-V	J29B-V	45-IN	WHT
PN11C16	J29C-L	J29B-L	45-IN	WHT
PN44D16	J29C-G	J29B-G	45-IN	WHT
KN34G16	J29C-N	J29B-N	45-IN	WHT
KN32F16	J29C-M	J29B-M	45-IN	WHT
KN1F16	J29C-U	J29B-U	45-IN	WHT
KN33G16	J29C-T	J29B-T	45-IN	WHT
XN14G14	J29C-R	J29B-R	45-IN	WHT
LN25E16	J29C-S	J29B-S	45-IN	WHT
PN12A16	J29C-W	J29B-W	45-IN	WHT
PN13A16	J29C-X	J29B-X	45-IN	WHT

**NOTE:**  
**UNUSED TERMINALS ARE NOT LISTED**

---

5-20. TEST AND REPLACE REMOTE FUNCTIONS BOX ASSEMBLY TO CONNECTOR PANEL  
WIRING HARNESS (cont)

---

- b. Use a multimeter and test for open circuit between pins and pin-to-connector.
- c. When opens or shorts occur, repair wiring harness.

---

REPAIR

---

REPAIR WIRING HARNESS.

- a. Use standard shop procedures when repairing the wiring harness.
- b. If not repairable, fabricate (see Appendix G).

---

INSTALLATION

---

INSTALL WIRING HARNESS.

- a. Install connector P29B (1) onto the remote functions box assembly (3) at J29B (4).
- b. Install the cable connector in the connector plate (5) and replace the nut on connector J29C .

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).



---

5-21. TEST AND REPLACE SS2P TO CONVENIENCE RECEPTACLE WIRING HARNESS (cont)

---

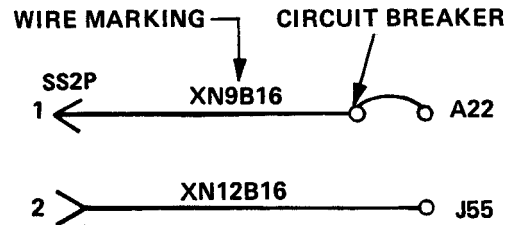
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TEST

---

TEST CONVENIENCE WIRING HARNESS.

- a. Use a multimeter and test for continuity between pins, also test for open circuit between pins.
- b. When open or short occurs, repair wiring harness.



---

REPAIR

---

REPAIR WIRING HARNESS.

- a. Use standard shop procedures when repairing the wiring harness.
- b. If not repairable, fabricate (see Appendix G).

---

INSTALLATION

---

INSTALL CONVENIENCE WIRING HARNESS.

- a. Connect wire XN12B to the receptacle and wire XN9B to the circuit breaker.
- b. Connect connector SS2P to connector SS2R.

NOTE

FOLLOW ON MAINTENANCE: Install Convenience Receptacle and Circuit Breaker (TM5-6115-464-12, Para. 3-124.)





5-22. REPAIR THE REMOTE FUNCTIONS BOX ASSEMBLY (cont)

- f. The ohmmeter on M2 should drop to 0 indicating a closed circuit. Replace the relay if this reading is not shown.
- g. Change the test setup to test two as shown in the figure.
- h. Repeat steps (c) through (f).
- i. Readings on M2 should be the same as test one; if not, replace the relay.
- j. Repeat steps (b) through (i) for four remaining relays.

REPAIR

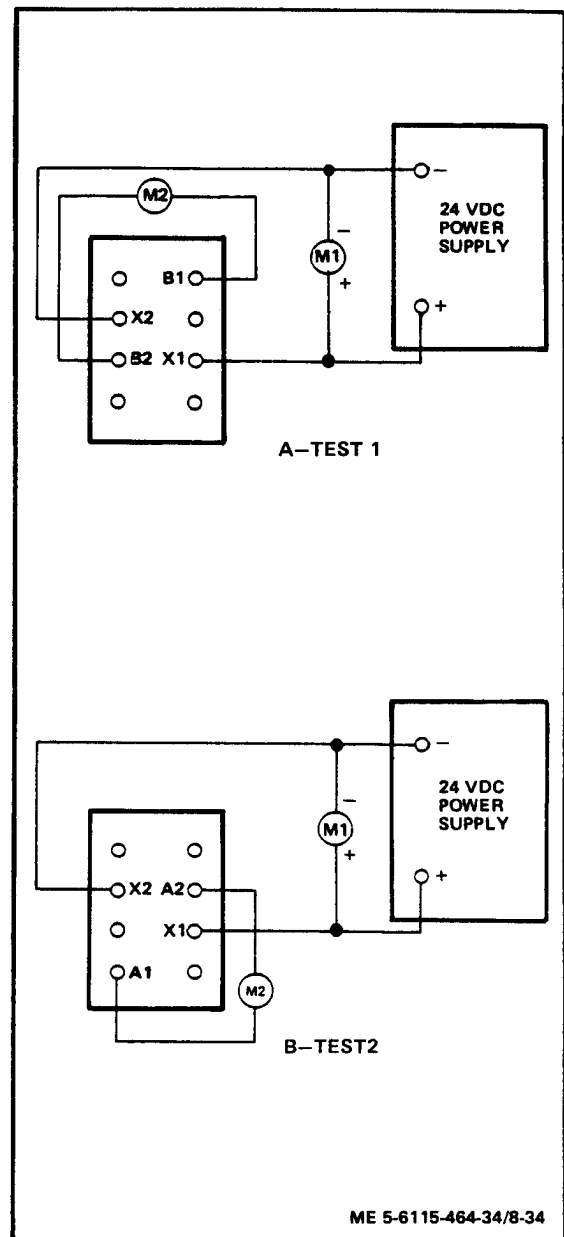
REPAIR THE REMOTE FUNCTIONS BOX ASSEMBLY.

Repair of the remote functions box assembly is accomplished by replacing any of the five relays that is malfunctioning. If relays are not malfunctioning replace remote functions box assembly.

REMOVAL

REMOVE THE REMOTE FUNCTIONS BOX ASSEMBLY.

- a. Refer to para. 5-19 and para. 5-20 and remove connectors J29A and J29B.
- b. Remove four nuts (5), lock-washers (6), flat washers (8) and screws (7).
- c. Lift the remote functions box assembly (9) from the mounting bracket (10).



---

5-22. REPAIR THE REMOTE FUNCTIONS BOX ASSEMBLY (cont)

---

---

INSTALLATION

---

INSTALL THE REMOTE FUNCTIONS BOX ASSEMBLY.

- a. Install four flat washers (8), screws (7), lockwashers (6) and nuts (5) into the bracket (10) and remote functions box assembly (9).
- b. Refer to para. 5-19 and para. 5-20 and reconnect connectors J29A and J29B.
- c. Install eight flat washers (4), lockwashers (3) and screws (2) into the remote functions box cover (1).
- d. Secure all mounting hardware.

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).



---

5-23. MAINTENANCE OF CURRENT TRANSFORMER ASSEMBLIES (cont)

---

- c. Remove four nuts (5), lockwashers (6), bolts (7), and current boost transformer (8).

NOTE

Do not remove mounting brackets unless inspection reveals damage and replacement is necessary.

- d. Remove four screws and washer assemblies (9), flat washers (10), and two mounting brackets (11).

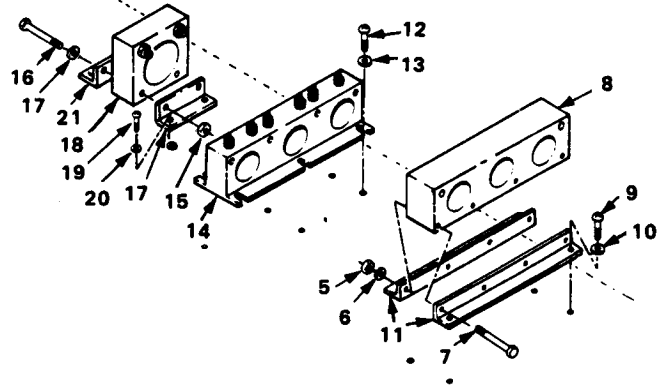
- e. Remove six screws (12) and flat washers (13), and instrumentation transformer assembly (14).

- f. Remove two nuts (15), screws (16), lockwashers (17), and cross-current compensation transformer (18).

NOTE

Do not remove mounting brackets unless inspection reveals damage and replacement is necessary.

- g. Remove four screws (19) and flat washers (20), and two mounting brackets (21).



---

INSPECTION

---

INSPECT TRANSFORMERS

- a. Visually inspect transformers for cracks, corroded terminals, and evidence of shorting.
- b. The transformers must be replaced if above conditions are found.

5-23. MAINTENANCE OF CURRENT TRANSFORMER ASSEMBLIES (cont)

TESTING

TEST TRANSFORMER ASSEMBLIES.

a. Test current boost transformer as follows:

(1) Use an ohmmeter to test for 0.19 ohms between A1 and A2, B1 and B2, C1 and C2.

(2) Apply 7 Vac 60 Hz to secondary winding. Exciter current should be 75 milliamperes maximum.

(3) Replace the transformer if test steps (1) or (2) above failed.

b. Test instrumentation transformer as follows:

(1) Use an ohmmeter to test for 0.11 ohms between terminals A1 and A3, B1 and B2, C1 and C2.

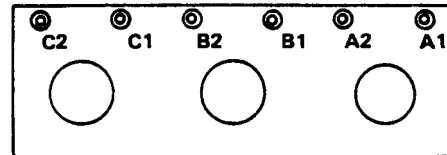
(2) Apply 10 Vac 60 Hz to secondary winding. Exciter current should be 50 milliamperes maximum.

(3) Replace transformer if test steps b. (1) or (2) failed.

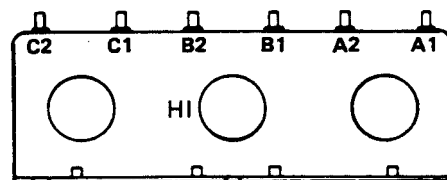
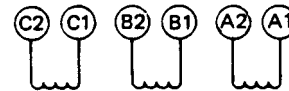
c. Test cross-current compensation transformer as follows:

(1) Use an ohmmeter to test for 0.3 ohms between terminals A1 and A2.

(2) Apply 10 Vac 60 Hz to secondary winding. Exciter current should be 50 milliamperes maximum.



a. Current boost transformer



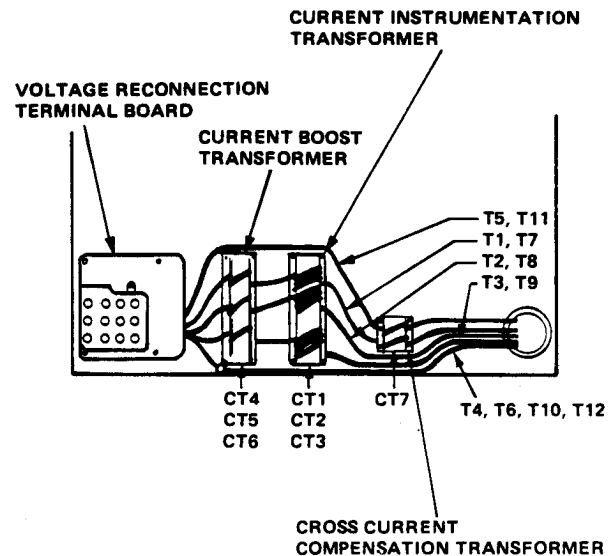
b. Instrumentation transformer

5-23. MAINTENANCE OF CURRENT TRANSFORMER ASSEMBLIES (cont)

- (3) Replace transformer if test steps c. (1) or (2) failed.

**INSTALLATION**

1. INSTALL TRANSFORMER ASSEMBLIES.
  - a. Install two mounting brackets (21), if removed, and secure with four screws (19) and flat washers (20).
  - b. Install cross-current compensation transformer (18) and secure with two screws (16), lockwashers (17), and nuts (15).
  - c. Install instrumentation transformer assembly (14), and secure with six screws (12) and flat washer (13).
  - d. Install mounting brackets (11), if removed, and secure with four screws (9) and flat washers (10).
  - e. Install current boost transformer (8) and secure with four screws (7), lockwashers (6), and nuts (5).
  - f. Route generator leads through transformer windows while observing polarity as noted during removal. See transformer wiring table. Connect the leads to voltage reconnection board. Remove tags. Retie wire bundles through the coils.
  - g. Connect electrical leads to transformer assemblies. Remove tags.



**TABLE 1**  
**CURRENT TRANSFORMER WIRING INFORMATION**

GENERATOR SET	WIRE NUMBER	N.O. OF TURNS FOR EACH TRANSFORMER						
		CT1	CT2	CT3	CT4	CT5	CT6	CT7
20 KW.	T1, T7	3	0	0	2	0	0	4
	T2, T8	0	3	0	0	2	0	0
60 HZ	T3, T9	0	0	3	0	0	2	0
	T5, T11	0	0	0	0	0	0	0
PRECISE	T4, T6, T10, T12	0	0	0	0	0	0	0

---

5-23. MAINTENANCE OF CURRENT TRANSFORMER ASSEMBLIES (cont)

---

2. INSTALL REMOTE FUNCTIONS BOX ASSEMBLY AND BRACKET AND RECONNECTION BOARD COVER
  - a. Install reconnection board cover (4) and remote functions box assembly and bracket (3) with four bolts (1) and washers (2).
  - b. Refer to para. 5-19 and para. 5-20 and reconnect connectors J29A and J29B.

NOTE

FOLLOW ON MAINTENANCE: Install Control Cubicle Assembly (TM5-6115-464-34, Para. 4-2). Connect Negative Battery Cable (Para. 4-10).

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MAINTENANCE OF THE CRANKSHAFT PULLEY

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5-24. REPLACE CRANKSHAFT PULLEY

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
#1 Common Tool Kit  
TBD

Equipment Conditions:

Reference  
Para. 4-35 Remove Engine V-belt.

Materials/Parts

Pulley Crankshaft  
97403-13228E1893

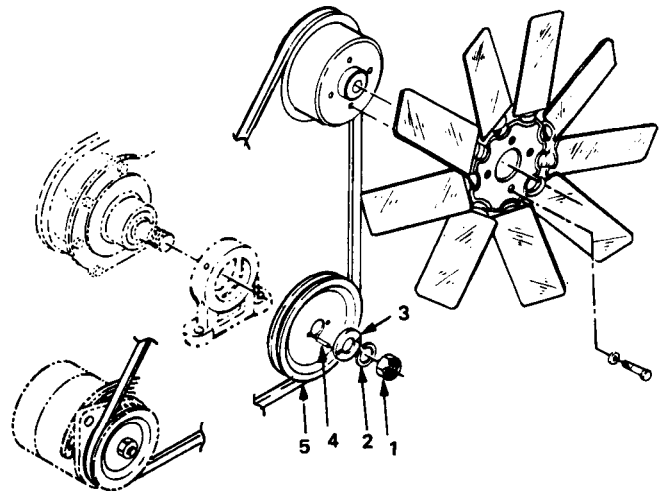
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REMOVAL

---

1. REMOVE CRANKSHAFT PULLEY.
  - a. Remove nut (1), lockwasher (2), pulley washer (3) and pin (4).
  - b. Remove pulley (5) from pulley shaft.



---

INSTALLATION

---

1. INSTALL CRANKSHAFT PULLEY.
  - a. Install new pulley (5) onto pulley shaft.
  - b. Install pin (4), pulley washer (3), lockwasher (2) and nut (1) onto pulley shaft.
  - c. Tighten the nut (1) to 125 ft-lb (172.5 n-m).

NOTE

FOLLOW ON MAINTENANCE: Install Engine V-belt (Para. 4-35).





5-25. TEST SPECIAL RELAY ASSEMBLY (cont)

TEST

TEST SPECIAL RELAY ASSEMBLY

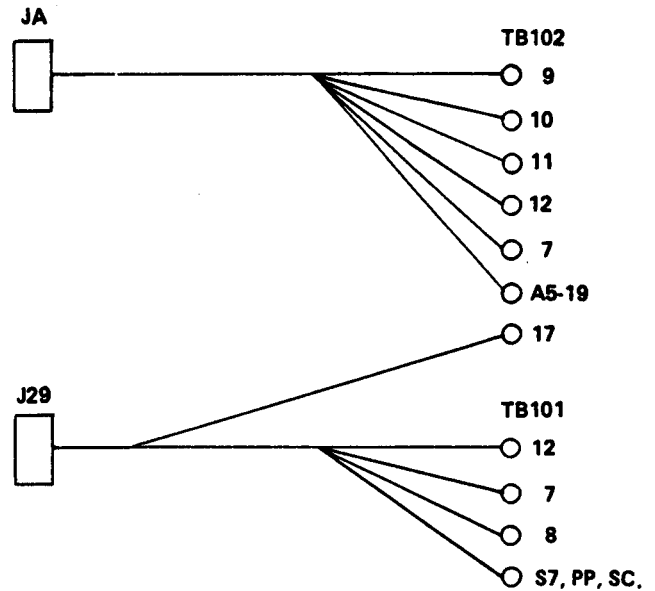
NOTE

When a component or assembly fails during the following test procedures, refer the special relay assembly to higher level maintenance.

NOTE

Components shown removed are for identification and relative locations only. Actual removal is not required.

- a. Use an ohmmeter to test potentiometer (7) as follows:
  - (1) Connect ohmmeter leads between wiper terminal and either outer terminal.
  - (2) Rotate adjustment at an even rate from full counter-clockwise to full clockwise. Meter indication should change at even rate from 0 to 12 ohms.
  - (3) Refer to wire run list and test wiring harness wires for continuity.

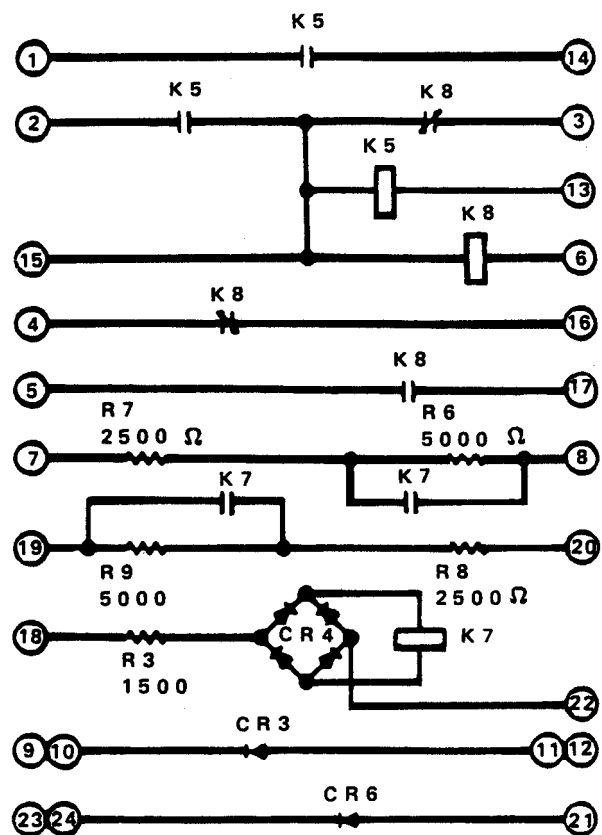


WIRE RUNNING LIST		
TERMINATION		MARKING COLOR
FROM	TO	
JA-A	TB102-9	WHT
JA-B	TB102-10	WHT
JA-C	TB102-11	WHT
JA-D	TB102-12	WHT
JA-E	TB102-7	WHT
JA-F	A5-19	WHT
J29-J	TB101-12	WHT
J29-K	TB101-7	WHT
J29-M	S7, PP, SC.	WHT
J29-N	TB102-17	WHT
J29-P	TB101-7	WHT

5-25. TEST SPECIAL RELAY ASSEMBLY (cont)

b. Test the dc relay assembly (8) as follows:

- (1) Apply 24 Vdc to terminals 6 and 15 then use an ohmmeter to test for continuity across terminals 5 and 17, and an open circuit across terminals 4 and 17, and 3 and 13.
- (2) Remove the 24 Vdc from terminals 6 and 15, and apply the 24 Vdc to terminals 13 and 15. Use the ohm meter to test for continuity across terminals 1 and 14 and 2 and 3.
- (3) Remove the 24 Vdc from terminals 13 and 15.
- (4) Place the ohmmeter probes across terminals 10 and 12, and record the meter indication. Reverse the probes on terminals 10 and 12, and record the indication. Resistances indicated should be high in one direction and low in the other.
- (5) Repeat the above test, using terminals 24 and 21.
- (6) Use the ohmmeter to test resistance across terminals 7 and 8 for approximately 7.5 K ohms resistance.
- (7) Repeat step (6) to test resistance across terminals 19 and 20 for same meter indications.
- (8) Apply 120 Vac to terminals 18 and 22 and use the ohm meter to test resistance across terminals 7 and 8, and 19 and 20. Meter



---

5-25. TEST SPECIAL RELAY ASSEMBLY (cont)

---

should indicate approximately 2.5K ohms, across terminals 7 and 8, and 19 and 20.

- (9) Use the ohmmeter to test resistor R3 for 1.5K ohms.
  - c. Inspect instrument shunt (9) for burns and corrosion.
  - d. Inspect relay K3 (10) for cracked casing and evidence of shorting.
  - e. Inspect the special current transformer (11) for burns and evidence of shorting. Use an ohmmeter to test for continuity across windings.
  - f. Use ohmmeter to test diode assembly (12) using procedure steps b(4) and (5).
  - g. Use ohmmeter to test fixed resistors (13) and (14) for 7.5 ohms.

---

INSTALLATION

---

INSTALL SPECIAL RELAY ASSEMBLY.

- a. Install chassis (5) on special relay assembly (6) and secure with two screw and captive washer assemblies (4).
- b. Install special relay assembly on relay table and secure with six screws (1), lockwashers (2) and nuts (3).
- c. Connect wiring harnesses to the special relay connectors, and remove the tags.

---

5-25. TEST SPECIAL RELAY ASSEMBLY (cont)

---

NOTE

FOLLOW ON MAINTENANCE: Install Static Exciter and Voltage Regulator Assembly (TM5-6115-464-34, Para. 5-13). Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF THE ISOLATORS, FRONT AND REAR

---

---

5-26. INSPECT ISOLATORS

---

This task covers: a. Inspection

---

---

INITIAL SETUP

---

Tools

None

Materials/Parts

None

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

---

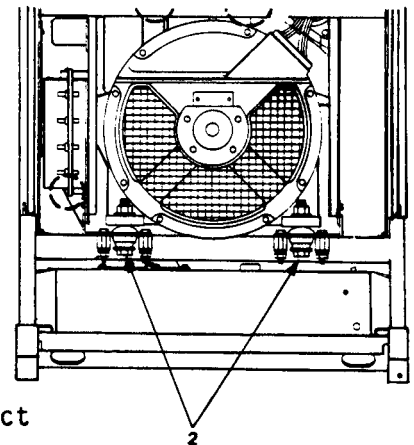
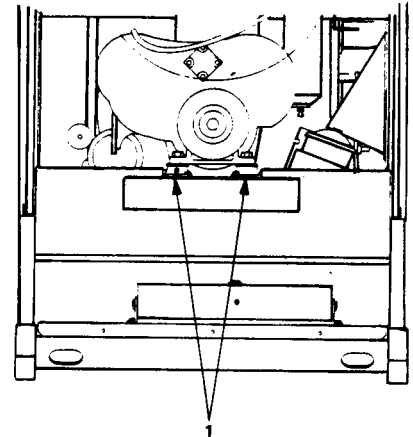
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**INSPECTION**

---

**INSPECT ISOLATORS, FRONT AND REAR.**

- a. Visually inspect the front isolators (1) for deterioration or other damage.
- b. Inspect for missing or damaged mounting hardware.
- c. Visually inspect the rear isolators (2) for deterioration or other damage.
- d. Inspect for missing or damaged mounting hardware.



**NOTE**

**FOLLOW ON MAINTENANCE:** Connect Negative Battery Cable (Para. 4-10).

---

MAINTENANCE OF THE LIFTING FRAME

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---

5-27. REPLACE LIFTING FRAME

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
#1 Common Tool Kit  
TBD

Materials/Parts

Clevis  
90202-XBN8190  
Bracket, Angle  
30554-72-2012  
Support, Center  
97403-13228E1890  
Support, Right  
97403-13228E1889  
Support, Left  
97403-13228E1888

Equipment Conditions:

Reference

Para. 4-12 Remove Rear Housing Frame.  
Para. 4-25 Remove Front Frame.  
Para. 4-26 Remove Tube Assembly and Silencer.  
Para. 4-28 Remove Air Cleaner Housing.  
TM5-6115-464-12  
Remove Fuel Lines and Fittings Para. 3-83.  
TM5-6115-464-34  
Remove Day Tank Assembly Para. 3-18.  
Remove Fuel Injection Pump Assembly Para. 3-20.

---

REMOVAL

---

NOTE

It is not necessary to completely disassemble the lifting frame to replace a single part. Only those parts requiring repair or replacement need be removed.

1. REMOVE LIFTING FRAME
  - a. Remove four nuts (1), lockwashers (2), flat washers (3), and screws (4).
  - b. Remove four nuts (5), lockwashers (6), spacers (7), flat washers (8) and screws (9).

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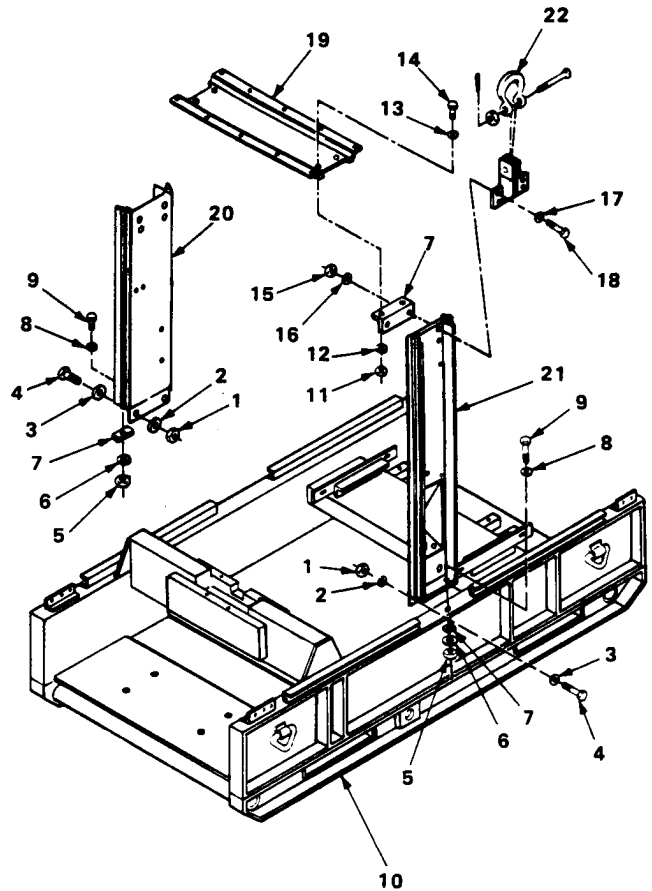
5-27. REPLACE LIFTING FRAME (cont)

---

- c. Lifting frame may now be removed from the skid base (10).

2. REMOVE CENTER SUPPORT BRACKET.

- a. Remove four nuts (11), lockwashers (12), flat washers (13) and screws (14).
- b. Remove four nuts (15), lockwashers (16), flat washers (17) and screws (18).
- c. The center support (19), right support (20), left support (21) and lifting clevis (22) are now separated.



---

INSTALLATION

---

1. INSTALL CENTER SUPPORT BRACKET.

- a. Position center support (19), right support (20), left support (21) and lifting clevis (22) for installation.
- b. Install four flat washers (17), screws (18), lockwashers (16) and screws (15).
- c. Install four flat washers (13), screws (14), lockwashers (12) and nuts (11).

2. INSTALL LIFTING FRAME.

- a. Position lifting frame on skid base (10) for installation.
- b. Install four flat washers (6), screws (5), spacers (7), lockwashers (8) and screws (9).
- c. Install four flat washers (3), screws (4), lockwashers (2) and nuts (1).



---

5-27. REPLACE LIFTING FRAME (cont)

---

NOTE

FOLLOW ON MAINTENANCE: Install Fuel Injection Pump Assembly (TM5-6115-464-34, Para. 3-20).  
Install Day Tank Assembly (TM5-6115-464-34, Para. 3-18).  
Install Fuel Lines and Fittings (TM5-6115-464-312, Para 3-83).  
Install Air Cleaner Housing (Para. 4-28) .  
Install Tube Assembly and Silencer (Para 4-26).  
Install Front Frame (Para. 4-25).  
Install Rear Housing Frame (Para. 4-21).

---

MAINTENANCE OF JUNCTION BOX

---

---

5-28. JUNCTION BOX MAINTENANCE

---

This task covers: Test

---

---

INITIAL SETUP

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Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
Megohmmeter  
TBD

Equipment Conditions:

Reference  
Para. 4-39 Remove Junction Box  
Assembly.

Materials/Parts

Junction Box  
97403-13228E1872

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---

**TEST**

---

TEST INSULATION OF POWER AND  
CONTROL WIRING HARNESSSES.

- a. Refer to MIL-HDBK-705B method 301.16 and use a megohmmeter to test all leads individually for insulation breakdown.
- b. The junction box must be repaired or replaced if tests indicates faulty insulation on any wire.

NOTE

FOLLOW ON MAINTENANCE: Install  
Junction Box Assembly (Para.  
4-39) .

MAINTENANCE REMOTE CONTROL UNIT

5-29. TEST AND REPAIR REMOTE CONTROL UNIT

This task covers: a. Test  
 b. Repair

INITIAL SETUP

Tools

General Mechanic's Tool Kit  
 5180-00-177-7033  
 Multimeter  
 6625-01-139-2512  
 Solder/Desolder Kit  
 3439-00-460-7198

Materials/Parts

Remote Control Unit  
 97403-13228E1869

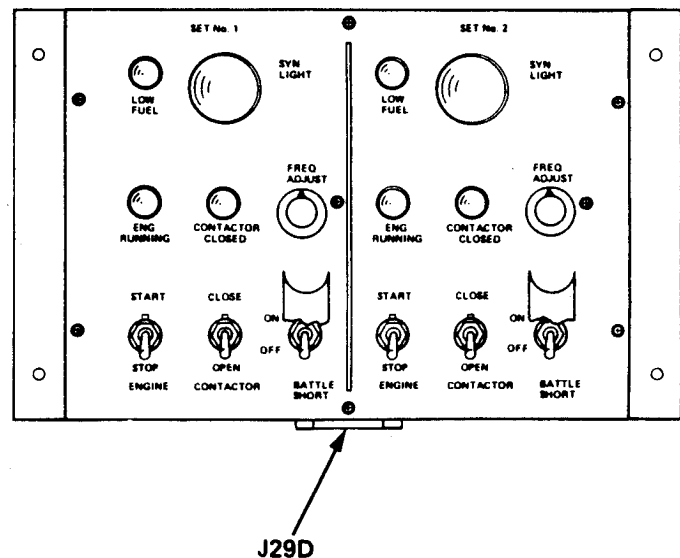
TEST

1. TEST INDICATOR LIGHT ASSEMBLIES.
  - a. Remove LOW FUEL, ENG RUNNING and CONTACTOR CLOSED lamps. Use an ohmmeter to test the lamps for burned out filaments. Replace turned out lamps.
  - b. Remove SYN LIGHT lamps. Use an ohmmeter to test the lamps for burned out filaments. Replace burned out lamps.
2. TEST SWITCHES, CONTROLS AND WIRING HARNESS.

NOTE

Refer to F0-2 for the following procedures.

- a. Connect ohmmeter leads across J29D pins A and B. Toggle S18 to RUN position. Meter indication should be 0 ohms.
- b. Connect ohmmeter leads across J29D, pins A and C. Toggle and hold S18 to START position. Meter indication should be 0 ohms.



---

5-29. TEST AND REPAIR REMOTE CONTROL UNIT (cont)

---

- c. Connect ohmmeter leads across J29D pins A and D. Toggle and hold S20 to CLOSE position. Meter indication should be 0 ohms.
- d. Connect ohmmeter leads across J29D pins A and E. Toggle and hold S20 to OPEN position. Meter indication should be 0 ohms.
- e. Connect ohmmeter leads across J29D pins A and F. Toggle and hold S22 to ON position. Meter indication should be 0 ohms.
- f. Connect ohmmeter leads across J29D pins V and U. Toggle S19 to RUN position. Meter indication should be 0 ohms.
- g. Connect ohmmeter leads across J29D, pins V and T. Toggle and hold S19 to START position. Meter indication should be 0 ohms.
- h. Connect ohmmeter leads across J29D pins V and S. Toggle and hold S21 to CLOSE position. Meter indication should be 0 ohms.
- i. Connect ohmmeter leads across J29D pins V and R. Toggle and hold S21 to OPEN position. Meter indication should be 0 ohms.
- j. Connect ohmmeter leads across J29D pins V and P. Toggle and hold S23 to ON position. Meter indication should be 0 ohms.
- k. Connect ohmmeter leads across J29D pins a and d. Meter indication should be 500 ohms.
- l. Repeat step 2. k. above using J29D pins g and W.

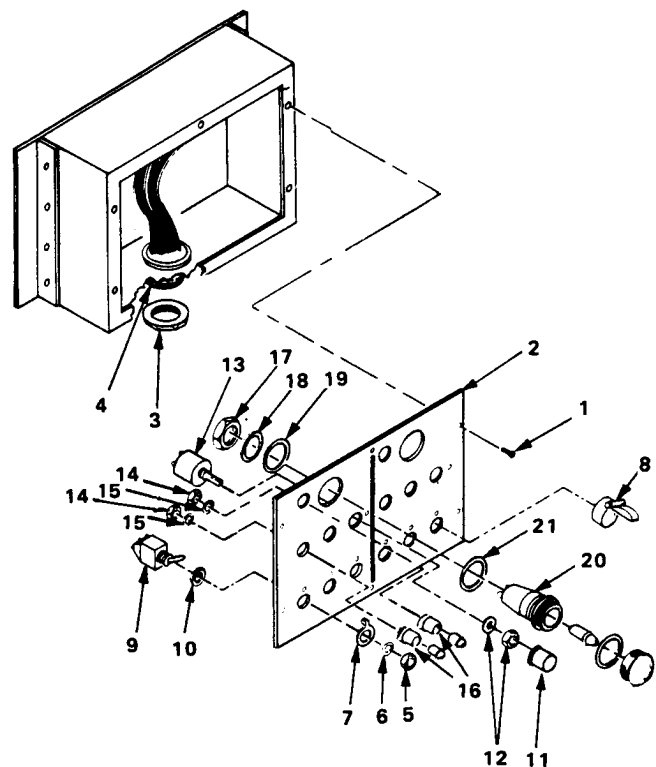
5-29. TEST AND REPAIR REMOTE CONTROL UNIT (cont)

- m. Connect ohmmeter across J29D pins b and d then rotate FREQ ADJUST (set no. 1) from fully counter-clockwise to fully clockwise. Meter indication should change smoothly from 0-to-500 ohms.
- n. Repeat step 2.m. above, using J29D pins f and W.
- o. Use the multimeter to test for continuity between J29D pins B and Y, G and H, H and J, u and v, V and i, N and M, M and L, and g and k.
- p. If any test step (2.a through 2.o) failed, the unit must be repaired.

REPAIR

REPAIR CONTROLS AND INDICATORS

- a. Repair by replacing faulty controls and indicators as follows:
  - (1) Remove six screws (1) that secures the control panel (2) to the housing.
  - (2) Remove ring nut (3), from J29D connector (4) and carefully push connector inwards from port.
  - (3) Remove control panel (2) and wiring harness from housing.
- b. Remove ENGINE START/STOP, CONTACTOR CLOSE/OPEN and BATTLE-SHORT ON/OFF switches.



---

5-29. TEST AND REPAIR REMOTE CONTROL UNIT (cont)

---

NOTE

All switches are removed in the same manner. The BATTLESHORT ON/OFF switch has one additional part which will be identified in the following steps.

- (1) Tag and disconnect electrical leads from switch terminals.
  - (2) Remove nut (5), lockwasher (6), locking ring (7), switch guard (8) for BATTLESHORT ON/OFF switch only, switch (9) and nut (10). Retain mounting hardware.
- c. Install ENGINE START/STOP, CONTACTOR CLOSE/OPEN and BATTLESHORT ON/OFF switches.

NOTE

All switches are installed in the same manner. The BATTLESHORT ON/OFF switch has one additional part which will be identified in the following steps.

- (1) Obtain replacement switch (9). Install nut (10) on switch (9), switch guard (8) BATTLESHORT ON/OFF switch only, locking ring (7), lockwasher (6) and nut (5).
  - (2) Reconnect tagged electrical leads to switch terminals.
- d. Replace FREQ ADJUST rheostats as follows:
- (1) Tag and disconnect wire leads from R32 terminals.
  - (2) Remove knob (11), nut and washer assembly (12), and rheostat (13) from panel.

---

5-29. TEST AND REPAIR REMOTE CONTROL UNIT (cont)

---

- (3) Install rheostat (13) on panel. Secure with nut and washer assembly (12). Then install knob (11).
- e. Replace ENG RUNNING, CONTACTOR CLOSED and LOW FUEL light assemblies as follows:
- (1) Tag wire leads connected to terminals.
  - (2) Use solder/desolder kit to remove solder from connector terminals and disconnect the wires.
  - (3) Remove nut (14), lock-washer (15), and light assembly (16) from panel.
  - (4) Install light assembly (16) and secure it to panel with nut (14) and lockwasher (15).
  - (5) Connect wires to terminals and solder connections in accordance with MIL-STD-454, requirement 5.
- f. Replace SYN LIGHT assembly as follows:
- (1) Tag and disconnect wire leads connected to terminals.
  - (2) Remove nut (17), tooth washer (18), flat washer (19), light assembly (20), and flat washer (21) from panel.
  - (3) Get a replacement light assembly (20) and install flat washers (21) and (19), tooth washer (18) and nut (17).
  - (4) Connect wires to terminals.

---

5-29. TEST AND REPAIR REMOTE CONTROL UNIT (cont)

---

- g. Inspect all connections for compliance with F0-2 wiring diagram. Then remove tags.
- h. Replace wiring harness as follows:
  - (1) Tag and mark wires connected to switches, controls and indicators.
  - (2) Remove ring nut (3) from J29D connector (4). Remove wiring harness.
  - (3) Get a new wiring harness to tag and mark wires to exact match with the old wiring harness.
  - (4) Connect wires to controls, switches, and indicators per tags. Ensure all connections are in accordance with the schematic diagram (F0-2).
  - (5) Solder connections to indicators in accordance with MIL-STD-454.
  - (6) Secure wiring harness with wire straps.
  - (7) Install connector J29D (4) to with ring nut (3).
  - (8) Install control panel (2) to housing and secure with six screws (1).
  - (9) Test the remote control unit by operating the generator set in the remote mode.





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5-30. FIRE EXTINGUISHER MAINTENANCE (cont)

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---

REPLACE

---

1. REPLACE THE FIRE EXTINGUISHER.

If during testing of the fire extinguisher defects are found, replace the fire extinguisher.

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SERVICE

---

1. SERVICE THE FIRE EXTINGUISHER.

Service of fire extinguisher is accomplished through installation facilities engineers or service and supply units.

NOTE

FOLLOW ON MAINTENANCE: Install Fire Extinguisher (Para. 4-53).

Section V. PREPARATION FOR STORAGE AND SHIPMENT

5-31. Storage

Storage for the PU 794/G is intended limited to 180 day storage or less. To place the unit in administrative storage,

secure all tools and equipment in the designated place. Refer to AR 750-1. The PU 794/G has no special storage requirements.

5-32. Preparation for Shipment

The PU 794/G can be shipped by rail, air or sea without damage to the unit. The

PU 794/G will be packaged for shipment in accordance with MIL-G-28554B, Level A packing instructions.



CHAPTER 6

INTERMEDIATE GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

CHAPTER INDEX

Subject Index	Page
Repair Parts, Special Tools Equipment Maintenance	6-1 6-1
Section I. REPAIR PARTS, SPECIAL TOOLS, TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE) AND SUPPORT EQUIPMENT	

6-1. General

Refer to Chapter 5 for instructions on repair parts, special tools and equipment.

Section II. MAINTENANCE

6-2. General Instructions

Instructions for maintenance and repair of components of the PU 794/G are pro-

vided in this section. Refer to TM5-6115-464-34 for instructions on the repair of the diesel engine generator and accessories.



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MAINTENANCE OF THE GENERATOR SET, 20 KW

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6-3. REPLACE THE GENERATOR SET

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
Lifting Device, 5-ton Capacity

Materials/Parts

Generator Set 20 kW  
97403-13228E1868

Equipment Conditions:

Reference  
Para. 4-9 General Instructions.

General Safety Instructions

**CAUTION**

Do not use a lifting device of less than 10,000 lb. capacity.

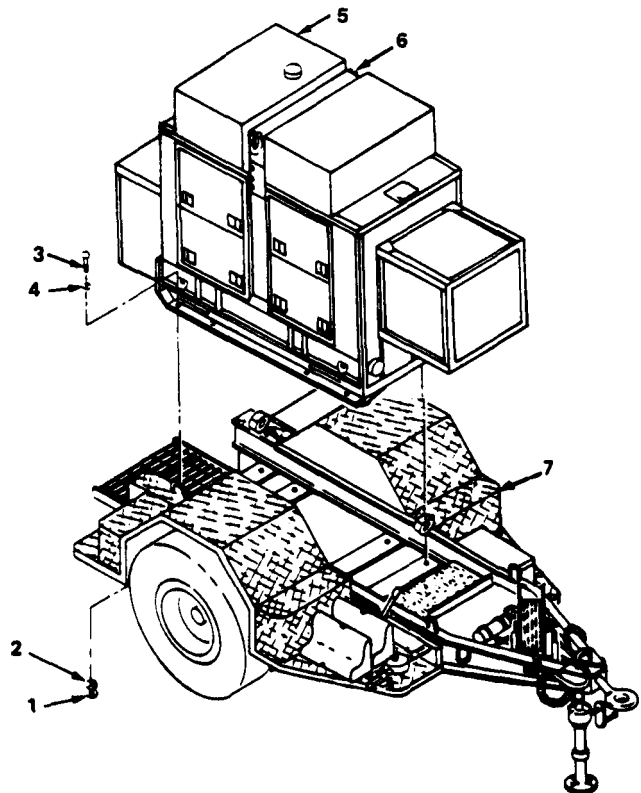
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REMOVAL

---

REMOVE GENERATOR SET.

- a. Remove eight nuts (1), lock-washers (2), bolts (3) and flat washers (4).
- b. Attach lifting device to the generator set (5).
- c. Be sure the lifting device is properly attached to the generator set at the lifting clevises (6).
- d. Lift the generator set (5) from the trailer (7).



---

6-3. REPLACE THE GENERATOR SET (cont)

---

---

INSTALLATION

---

INSTALL GENERATOR SET.

- a. Place a new generator set (5) onto the trailer (7), and align it with the mounting holes.
- b. Install eight flat washers (4), bolts (3), lockwasher (2) and nuts (1).

NOTE

FOLLOW ON MAINTENANCE: Connect Negative Battery Cable (Para. 4-10).





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6-4. REPLACE FAULTY COMPONENT OF SPECIAL RELAY ASSEMBLY (cont)

---

- c. Replace faulty wiring harness:
- (1) Remove all wires of faulty wiring harness (6). (Not shown).
  - (2) Attach new wiring harness (6) using wiring diagram figure 5-1.
- d. Replace faulty dc relay assembly:
- (1) Tag and remove wires from faulty dc relay assembly (7).
  - (2) Remove four screws (8) and remove faulty dc relay assembly (7).
  - (3) Install new dc relay assembly (7) and secure with four screws (8).
  - (4) Attach wires to new dc relay assembly (7).
- e. Replace faulty instrument shunt:
- (1) Tag and remove wires from faulty instrument shunt (9).
  - (2) Remove two screws (10) and remove faulty instrument shunt (9).
  - (3) Install new instrument shunt (9) and secure with two screws (10).
  - (4) Attach wires to new instrument shunt (9).

---

6-4. REPLACE FAULTY COMPONENT OF SPECIAL RELAY ASSEMBLY (cont)

---

- f. Replace faulty K3 relay:
  - (1) Tag and remove wires from faulty K3 relay (11).
  - (2) Remove two screws (12) and nuts (13) and remove faulty K3 relay (11).
  - (3) Install new K3 relay (11) and secure with two screws (12) and nuts (13).
  - (4) Attach wires to new K3 relay (11).
  
- g. Replace faulty special current transformer:
  - (1) Tag and remove wires from faulty special current transformer (14).
  - (2) Remove two screws (15) and nuts (16) and remove faulty special current transformer (14).
  - (3) Install new special current transformer (14) and secure with two screws (15) and nuts (16).
  - (4) Attach wires to new special current transformer (14).
  
- h. Replace faulty diode assembly:
  - (1) Remove two screws (17) from terminal board (18) and remove faulty diode assembly (19).
  - (2) Secure new diode assembly (19) on terminal board (18) with two screws (17).
  
- i. Replace R31 fixed resistor:
  - (1) Tag and remove wires from faulty R31 fixed resistor.

---

6-4. REPLACE FAULTY COMPONENT OF SPECIAL RELAY ASSEMBLY (cont)

---

- (2) Remove two screws (21), washers (22) and nuts (23) to remove bracket assembly (24) and faulty R31 fixed resistor (20).
  - (3) Remove faulty R31 fixed resistor (20) from bracket assembly.
  - (4) Install new R31 fixed resistor (20) into bracket assembly (24).
  - (5) Install bracket assembly (24) with new R31 fixed resistor (20) and secure with two screws (21), washers (22) and nuts (23).
  - (6) Attach wires to new R31 fixed resistor (20).
- j. Replace faulty R35 fixed resistor using steps in i. to remove and install items (26) through (29).

---

INSTALLATION

---

INSTALL SPECIAL RELAY ASSEMBLY IN CHASSIS.

Install special relay assembly (3) in chassis (2) and secure with two screw and captive washer assemblies (1).

---

MAINTENANCE OF ISOLATORS, FRONT AND REAR

---

---

6-5. REPLACE ISOLATORS

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
#1 Common Tool Kit  
TBD  
Lifting Device

Equipment Conditions:

Reference

Para. 4-21 Remove Rear Housing Frame.  
Para. 4-25 Remove Front Frame.  
TM5-6115-464-34  
Remove Engine Assembly Para. 2-6.  
Remove Generator Assembly Para. 2-7.

Materials/Parts

Isolator, Front  
81860-508-4NS  
Isolator, Rear  
81860-510-2NS

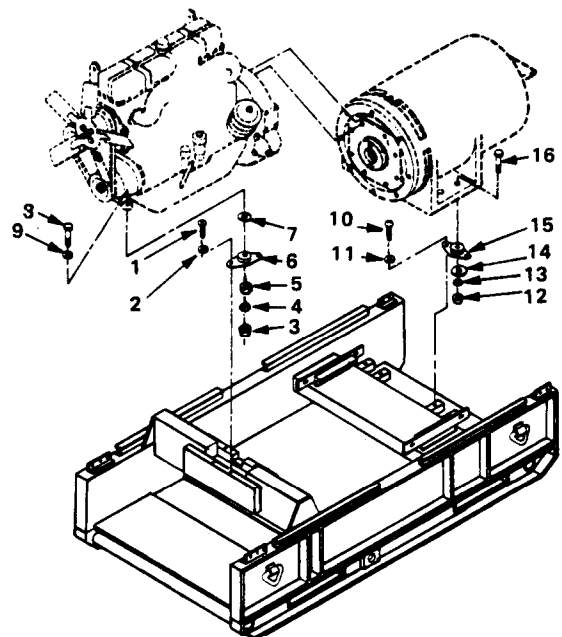
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REMOVAL

---

1. REMOVE FRONT ISOLATORS.
  - a. Remove four front isolator mounting screws (1) and lockwashers (2).
  - b. Attach a lifting device and lift the engine assembly until isolators are clear of the skid.
  - c. Remove two nuts (3), bushings (4), snubbing washers (5), isolators (6), flat washers (7), screws (8) and lockwashers (9).
2. REMOVE REAR ISOLATORS.
  - a. Remove four rear isolator mounting screws (10) and lockwashers (11).



---

6-5. REPLACE ISOLATORS (cont)

---

- b. Attach a lifting device and lift the alternator assembly until the isolators are clear of the skid.
- c. Remove two nuts (12), snubing washers (13), flat washers (14), isolators (15) and screws (16).

---

INSTALLATION

---

- 1. INSTALL FRONT ISOLATORS.
  - a. Install two screws (8), lock-washers (9), flat washers (6), isolators (5), snubing washers (5), bushings (4) and nuts (3).
  - b. Using lifting device, lower engine onto skid.
  - c. Install four mounting screws (1) and lockwashers (2).
- 2. INSTALL REAR ISOLATORS.
  - a. Install two screws (16), isolators (15), flat washers (14) snubing washers (13) and and nuts (12).
  - b. Using lifting device, lower the alternator onto the skid.
  - c. Install four screws (10) and lockwashers (11).

NOTE

FOLLOW ON MAINTENANCE: Install Generator Assembly (TM5-6115-464-34, Para. 2-7).  
Install Engine Assembly (TM5-6115-464-34, Para. 2-8).  
Install Front Frame (Para. 4-25).  
Install Rear Housing Frame (Para. 4-21).

---

MAINTENANCE OF THE SKID BASE ASSEMBLY

---

6-6. REPLACE THE SKID BASE ASSEMBLY

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033  
#1 Common Tool Kit  
TBD

Equipment Conditions:

Reference

Para. 6-3 Remove Generator Set.  
Para. 4-21 Remove Rear Housing Frame.  
Para. 4-25 Remove Front Frame.  
Para. 5-27 Remove Lifting Frame.

Materials/Parts

Skid Base  
97403-13228E1899

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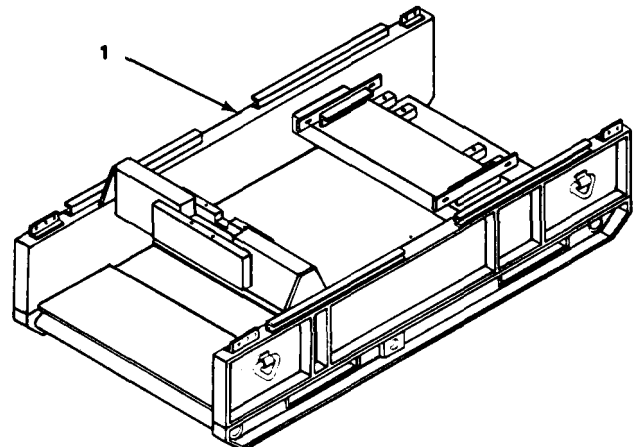
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REMOVAL

---

REMOVE THE ENGINE AND ALTERNATOR.

For removal of the engine, alternator assemblies and fuel tank from skid base (1), refer to para. 6-5 and TM5-6115-464-34.



**SKID BASE**

---

INSTALLATION

---

INSTALL THE ENGINE AND ALTERNATOR.

For installation of the engine, alternator assemblies and fuel tank to skid base (1), refer to para. 6-5 and TM5-6115-464-34.

NOTE

FOLLOW ON MAINTENANCE: Install Lifting Frame (Para. 5-27).  
Install Front Frame (Para. 4-25).  
Install Rear Housing Frame (Para. 4-21).  
Install Generator Set (Para. 6-3).

---

MAINTENANCE OF JUNCTION BOX

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---

6-7. JUNCTION BOX REPAIR

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Housing, Junction Box  
97403-13228E1935  
Cover, Enclosure  
97403-13228E1936  
Wiring Harness, Control  
97403-13228E1933  
Wiring Harness, Power  
97403-13228E1934

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REMOVAL

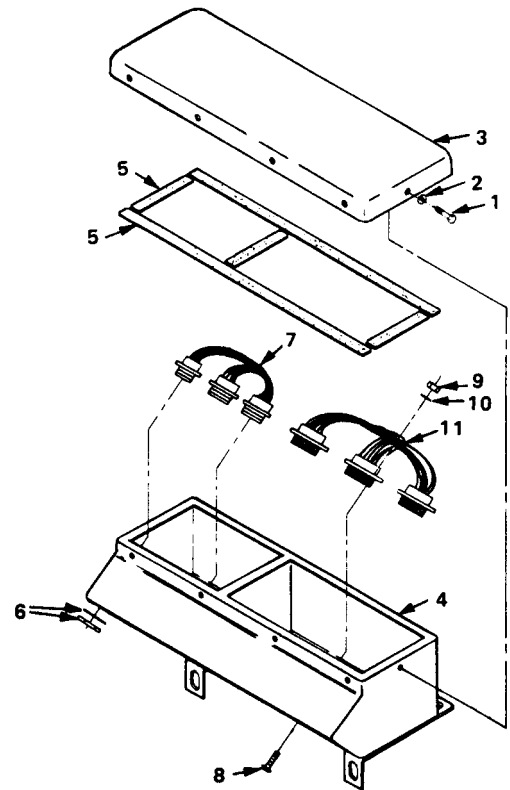
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1. PLACE JUNCTION BOX ASSEMBLY ON A CLEAN FLAT SURFACE.
2. REMOVE ENCLOSURE COVER.
  - a. Remove 16 screws (1), washers (2) and cover (3) from housing (4).
  - b. Remove gasket (5) as required.

NOTE

Disassemble only as necessary to replace faulty components.

3. REMOVE CONTROL WIRING HARNESS.
  - a. Tag wiring harness connectors and mark tags for connector positions on housing.



---

6-7. JUNCTION BOX REPAIR (cont)

---

- b. Remove three nut and washer assemblies (6), that secure the wiring harness connectors to the housing and remove the wiring harness (7).
4. REMOVE POWER WIRING HARNESS.
    - a. Tag wiring harness connectors and mark tags for connector positions on housing.
    - b. Remove twelve screws (8), nuts (9) and washers (10) that secure the wiring harness connectors to the housing and remove the wiring harness (11).

---

INSTALLATION

---

1. INSTALL POWER WIRING HARNESS.
  - a. Get a new wiring harness and tag the connectors to match the tags on wiring harness removed in step 4.
  - b. Line up connector mounting holes with holes provided in housing and secure with twelve screws (8), washers (10), and nuts (9). Remove tags.
2. INSTALL CONTROL WIRING HARNESS.
  - a. Get a new wiring harness (7) and tag the connectors to match tags on wiring harness removed in step 3.
3. INSTALL ENCLOSURE COVER.

Install gasket (5) if required, and cover (3) and secure to housing (4) with 16 screws (1) and washers (2).



---

6-7. JUNCTION BOX REPAIR (cont)

---

- b. Insert connectors in holes provided in housing and secure with three nuts and washers (6) provided with harness connectors. Remove tags.

---

MAINTENANCE OF MODIFIED TRAILER-M200A1

---

---

6-80 REPLACE THE M200A1 TRAILER

---

This task covers: a. Removal  
b. Installation

---

---

INITIAL SETUP

---

Tools

General Mechanic's Tool Kit  
5180-00-177-7033

Materials/Parts

Modified Trailer  
97403-13228E1870

Equipment Conditions:

Reference  
Para. 6-2 General Instructions.

**CAUTION**

Do not use a lifting device of less than 10,000 lb. capacity.

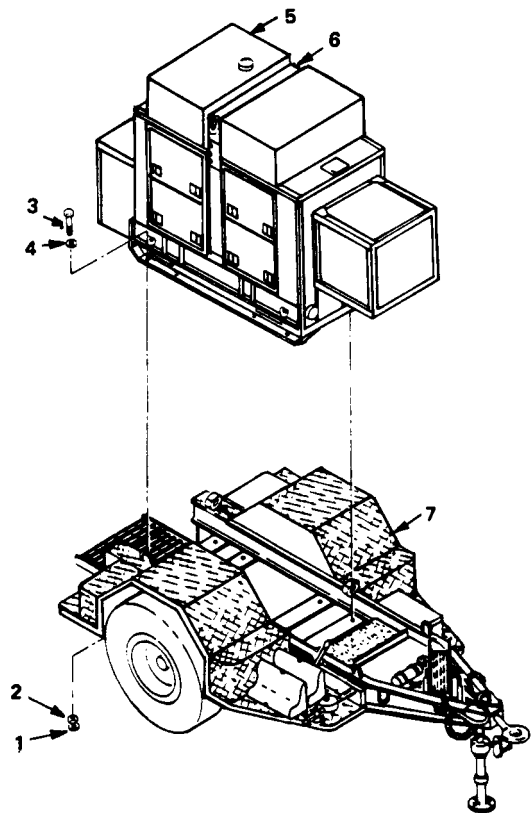
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REMOVAL

---

REMOVE GENERATOR SET FROM TRAILER.

- a. Remove eight nuts (1), lock-washers (2), bolts (3) and washers (4).
- b. Attach a lifting device to the generator set (5).
- c. Be sure that the lifting device is properly attached to the generator set (5) at the lifting clevises (6).
- d. Lift the generator set (5) from the trailer (7).



---

INSTALLATION

---

INSTALL GENERATOR ON NEW TRAILER.

- a. Install the generator set (5) onto the replacement trailer (7), and align it with mounting holes.

---

6-8. REPLACE THE M200A1 TRAILER (cont)

---

- b. Install eight washers (4), bolts (3), lockwashers (2) and nuts (1).

NOTE

FOLLOW ON MAINTENANCE: General Instructions (Para. 6-2).



APPENDIX A

REFERENCES

A-1. SCOPE

This appendix lists all forms, field manuals, technical manuals and miscellaneous publications referenced in this manual.

A-2. FORMS

Equipment Inspection and Maintenance Worksheet . . . . .	DA Form 2404
Quality Deficiency Report . . . . .	SF 368
Reports of Errors, Omissions and Recommendations . . . . .	DA Form 2028(A) AFTO Form 22(F) NAVMC 10772(MC)

A-3. TECHNICAL MANUALS

Hand Receipt Manual, MEP-004A, Generator Set . . . . .	TM5-6115-464-HR (A)
Intermediate (Field) (Direct and General Support) . . . . . and Depot Level Maintenance Manual, MEP-004A Generator Set	TM5-6115-464-34 (A) TO-35C2-3-445-2 (F) NAVFAC-P-8-624-34 (N) TM-07523A34 (M)
Maintenance Forms and Records . . . . .	AFM-66-1 (F) TM4700-15/1 (M)
Operator and Unit Maintenance Manual . . . . . MEP-004A, Generator Set	TM5-6115-464-12 (A) TO-35C2-3-445-1 (F) NAVFAC P-8-624-12 (N) TM-07523A-12 (M)
Operator's, Organizational, Direct Support and . . . . . Maintenance Manual for Lead-acid Storage Batteries	TM9-6140-200-14 (A)
Operator, Unit, Direct Support and General Support . . . . . Maintenance (including Repair Parts and Special Tools List), trailer, chassis, M200A1	TM9-2330-205-14&P (A)
Organizational Care, Maintenance and Repair of . . . . . Pneumatic Tires, Inner Tubes and Radial Tires	TM9-2610-200-24 (A)
Portable Fire Extinguisher for Army Users . . . . .	TM5-4200-200-10
Principles and Technical Characteristics of USMC . . . . . Engineering Equipment	TM-11275-15/3A (M)
Procedures for Destruction of Equipment to Prevent Enemy use - Generator . . . . .	TM750-244-3
- Trailer . . . . .	TM750-244-6

**TM5-6115-634-14&P**  
**NAVFAC P-8-647-14&P**  
**T0-35C2-3-445-14**  
**TM-6115-14&P/1**

A-3. TECHNICAL MANUALS (Continued)

Unit, Intermediate (Field) (Direct Support and . . . . . TM5-6115-464-24P (A)  
General Support) and Depot Maintenance Repair Parts . . . . . T0-35C2-3-445-4 (F)  
and Special Tools Lists (RPSTL), MEP-004A Generator . . . . . NAVFAC P-8-624-24P (N)

A-4. MISCELLANEOUS PUBLICATIONS

Classification, Reclassification, Issue and Reporting  
Maintenance Training, Aircraft . . . . . AR 700-42 (A)

Generator Sets, Electrical, Measurements and . . . . . MIL-H-DAK-705  
Instrumentation

Generator Sets, Mobile Electric Power and Supplemental . . . . . MIL-G-28554B  
Equipment; Packaging of

Identification Marking of U.S. Military Property . . . . . MIL-STN-130

Lubrication Order, MEP-004A Generator Set . . . . . L05-6115-464-12(A)  
LO-07523A-12(M)

The Army Maintenance Management System (TAMMS) . . . . . DA PAM 738-750

Oil Sampling Requirement . . . . . TB43-0210(A)

Painting and Preserving . . . . . MIL-T-704

Soldering Standards . . . . . MIL-STD-454

Terminal Splice Standards . . . . . MIL-T-7928

Wiring, Aerospace Vehicle . . . . . MIL-W-5088

APPENDIX B  
MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. General.

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.

b. The Maintenance Allocation Chart (MAC) in Section II designates overall authority and responsibility for the performance of maintenance functions on PU 794/G. It does not include the generator set or trailer components except modifications included in TM5-6115-464-12 and TM9-330-205-14&P. The application of the maintenance functions to the end item or component will be consistent with the capacities and capabilities of designated maintenance levels.

c. Section III lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from Section II.

d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

**B-2. Maintenance Functions.** 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 (e.g., sight, sound, or feel).

b. **Test.** To verify serviceability by measuring the mechanical, pneumatic, hydraulic, 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 (includes decontaminate, when required), preserve, drain, paint, or to replenish fuel, lubricants, chemical fluids, or gases.

d. **Adjust.** To maintain or regulate, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to 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. **Remove/Install.** To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of replacing, seating, or fixing into position a spare or repair part of module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

h. **Replace.** To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and is shown as the third position code of the SMR code.

i. **Repair.** The application of maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures and maintenance actions to identify troubles and restore serviceability to

an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly module (component or assembly), end item, or system.

j. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e., DMWR). 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 equipment/components.

### 6-3. Explanation of Columns in the MAC, Section II.

a. Column 1, Group Number. Column 1 lists functional group code numbers the purpose of which is to identify maintenance significant components, assemblies, subassemblies and modules with the next higher assembly. End item group number shall be "00".

b. Column 2, Component/Assembly. Column 2 contains the names of components, assemblies, subassemblies and modules for which maintenance is authorized.

c. Column 3, Maintenance Function. Column 3 lists the functions to be performed on the item listed in Column 2. (For detailed explanation of these functions, see paragraph B-2.)

d. Column, 4, Maintenance Level. Column 4 specifies (by listing of a work time figure in the appropriate subcol-

umn(s)), the 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 level of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance levels, appropriate work time figures will be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time and quality assurance/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. The symbol designations for the various maintenance levels are as follows:

C ..... Operator or Crew  
O ..... Unit Maintenance  
F ..... Intermediate Direct Support Maintenance  
H ..... Intermediate General Support Maintenance  
L ..... Specialized Repair Activity (SRA)  
D ..... Depot Maintenance

e. Column 5, Tools and Equipment. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TMDE and support equipment required to perform the designated function.

f. Column 6, Remarks. This column shall, when applicable, contain a letter code, in alphabetic order, which shall be keyed to the remarks contained in Section IV.



**B-4 Explanation of Columns in Tool and Test Equipment Requirements, Section III.**

- a. Column 1, Reference Code. The tool and test equipment reference code correlates with a code used in the MAC, Section II, Column 5.
- b. Column 2, Maintenance Category. The lowest category of maintenance authorized to use the tool or test equipment.
- c. Column 3, Nomenclature. Name or identification of the tool or test equipment.

d. Column 4, National Stock Number. The national stock number of the tool or test equipment.

e. Column 5, Tool Number. The manufacturer's part number.

**B-5. Explanation of Columns in Remarks, Section IV.**

- a. Column 1, Reference Code. The code recorded in column 6, Section II.
- b. Column 2, Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II.

Section II. MAINTENANCE ALLOCATION CHART

NOMENCLATURE OF END ITEMS: GENERATOR SET, 20KW, PU-794/G

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQPT	(6) REMARKS
			UNIT		INTERMEDIATE		DEPOT		
			C	O	F	H	D		
1	BATTERY BOX ASSEMBLY BATTERIES, CABLES	INSPECT REPLACE	0.1	0.4				1	
	BATTERY	INSPECT TEST REPLACE SERVICE	0.1	0.2 0.2 1.5				1	
	CABLES, BATTERY	INSPECT REPLACE	0.2	0.4				1	
	BATTERY BOX	INSPECT REPLACE REPAIR	0.1	0.2 0.2				1	
2	GENERATOR SET, 20KW	TEST REPLACE			1.0	3.0		1	
	BAFFLE ASSY, INTAKE	INSPECT REPLACE REPAIR SERVICE	0.2	0.5 0.3	1.2			1	
	DOORS, ACCESS	INSPECT REPLACE REPAIR	0.1	0.4	3.0			1, 2	
	ASSY, GENSET COVER	INSPECT REPLACE REPAIR	0.2	2.0	0.8			1, 2	
	REAR HOUSING, GEN SET	INSPECT REPLACE REPAIR	0.1	2.5	2.0			1, 2	
	BAFFLE ASSY, EXHAUST	INSPECT REPLACE REPAIR SERVICE	0.2	0.5 0.3	1.2			1, 2	
	ASSY, GEN SET, TOP	INSPECT REPLACE REPAIR	0.1	2.0	0.8			1, 2	

MAINTENANCE ALLOCATION CHART - CONTINUED

NOMENCLATURE OF END ITEMS: GENERATOR SET, 20KW, PU-794/G

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQPT	(6) REMARKS
			UNIT		INTERMEDIATE		DEPOT		
			C	O	F	H	D		
	HOUSING, GEN SET, FRO	INSPECT REPLACE REPAIR	0.1 . 2.5		0.5			1, 2	
	WIRING HARNESS, CONTR	INSPECT TEST REPLACE REPAIR	0.1		1.0 0.3 1.0			1, 3	
	HARNESS, WIRING, POWER	INSPECT TEST REPLACE REPAIR	0.1		0.2 0.5 1.0			1, 3	
	WIRING HARNESSES	INSPECT TEST REPLACE REPAIR	0.2		1.0 0.5 1.3			1, 3	
	SILENCER, EXHAUST SYSTEM	INSPECT REPLACE	0.1	1.0				1	
	AIR CLEANER SYSTEM	INSPECT REPLACE	0.1	1.0				1	
	FILTER ELEMENT	INSPECT REPLACE SERVICE	0.1	0.1 1.0				1	
	REMOTE FUNCTION BOX ASSY.	INSPECT TEST REPLACE REPAIR		0.2	0.5 0.5 0.5			1, 2 3	
	CURRENT TRANSFORMER	INSPECT TEST REPLACE			0.1 0.5 0.5			1, 3	
	FAN, ENGINE	INSPECT REPLACE	0.2	1.0				1, 2	
	BELT, V, ENGINE	INSPECT REPLACE	0.1	0.2				1, 2	
	PULLEY, CRANK SHAFT	INSPECT REPLACE			0.2 0.2			1, 2	
	GUARD, FAN LEFT and RIGHT	INSPECT REPLACE	0.1	0.2				1	

MAINTENANCE ALLOCATION CHART - CONTINUED

NOMENCLATURE OF END ITEMS: GENERATOR SET, 20KW, PU-794/G

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQPT	(6) REMARKS
			UNIT		INTERMEDIATE		DEPOT		
			C	O	F	H	D		
	RELAY ASSY, SPECIAL	INSPECT TEST REPLACE REPAIR	0.2		5.0 3.0	8.0		1, 2 3, 4	
	SKID BASE	INSPECT REPLACE		0.8		60.0		1, 2, 3, 4	
	ISOLATORS, FRONT AND REAR	INSPECT REPLACE				0.1 5.0		1, 2	
	BOX, DOCUMENT	INSPECT REPLACE	0.1	0.4				1	
	LIFTING FRAME	INSPECT REPLACE	0.3		2.0			1	
3	JUNCTION BOX ASSY	INSPECT TEST REPLACE REPAIR		0.3 0.1 0.5	0.1	0.5		1, 5	
4	CABLE REEL ASSEMBLY	INSPECT REPLACE SERVICE	0.1 0.2	0.4				1	
5	MODIFIED TRAILER M200A1	INSPECT REPLACE	1.0			6.0		1, 2, 3, 4	
	PAN, CABLE STORAGE	INSPECT REPLACE	0.1	0.5				1	
	BRACKET, PULLER	INSPECT REPLACE	0.1	0.4				1	
	FENDER KIT	INSPECT REPLACE	0.1	8.0				1	
6	REMOTE CONTROL UNIT	INSPECT TEST REPLACE REPAIR	0.1	0.5 0.2	3.0 4.0			1, 3, 4	

MAINTENANCE ALLOCATION CHART - CONTINUED

NOMENCLATURE OF END ITEMS: GENERATOR SET, 20KW, PU-794/G

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQPT	(6) REMARKS
			UNIT		INTERMEDIATE		DEPOT		
			C	O	F	H	D		
7	CONTROL CABLE, 100FT	INSPECT TEST REPLACE REPAIR	0.1	0.2 0.5			4.0	1, 3	
8	CABLE ASSEMBLY PWR	INSPECT TEST REPLACE REPAIR	0.1	0.2 0.5			3.0	1, 3	
9	POWER CABLE, 5FT	INSPECT TEST REPLACE REPAIR	0.1 0.5	0.2			3.0	1, 3	
10	CONTROL CABLE, 5FT	INSPECT TEST REPLACE REPAIR	0.1 0.5	0.2			3.0	1, 3	
11	CONTROL CABLE, 25FT	INSPECT TEST REPLACE REPAIR	0.1 0.2	0.2			3.0	1, 3	
12	CABLE, PARALLELING	INSPECT TEST REPLACE REPAIR	0.1 0.5	0.2			3.0	1, 3	
13	EXTINGUISHER, FIRE	INSPECT TEST REPLACE SERVICE	0.1	0.1	0.1 1.0			1	

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER
1	O	General Mechanics Tool Kit	5810-00-177-7033
2	O	#1 Common Tool Kit	TBD
3	O	Multimeter, Digital	6625-01-139-2512
4	F	Solder/Desolder Kit	3439-00-460-7198
5	F	Megohmmeter	TBD

APPENDIX C  
COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LIST

Section I. INTRODUCTION

C-1. Scope

This appendix lists components of end items and basic issue items necessary to inventory items that are required for safe and efficient operation.

C-2. General

The components of end item and basic issue items lists are divided into the following sections:

a. Section II. Components of End Item. This listing is for informational purposes only, and is not the authorization to requisition replacements. These items are part of the end item, but are removed and separately packaged for transportation or shipment. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Illustrations are furnished to assist you in identifying the items.

b. Section III. Basic Issue Items. These are the minimum essential items required to place the PU 794/G in operation, to operate it, and to perform emergency repairs. Although shipped separately packaged, BII must be with the PU 794/G during operation and whenever it is transferred between property accounts. The illustrations will assist you with hard-to-identify items. This manual is your authority to request/requisition replacement 611, based on Table of Organization and Equipment/Modified Table of Organization and Equip-

ment (TOE/MTOE) authorization of the end item.

The following provides an explanation of columns found in the tabular listings:

(1) Column (1). Illustration Number (Illus. Number). This column indicates the number of the illustration in which the item is shown.

(2) Column (2). National Stock Number. Indicates the national stock number assigned to the item and will be used for requisitioning purposes.

(3) Column (3). Description. Indicates the national item name, and if required, a minimum description to identify and locate the item. The last line for each item indicates the federal supply code for manufacturer (FSCM) followed by the part number. If item needed differs for different models of this equipment, the model is shown under the 'USABLE ON' heading in this column.

(4) Column (4). Unit of Measure (U/M). Indicates the measure used in performing the actual operational/maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr).

(5) Column (5). Quantity Required (Qty Req). Indicates the quantity of the item authorized to be used with/on the equipment.

Section II. COMPONENTS OF END ITEM

Not applicable.

TM5-6115-634-14&P  
NAVFAC P-8-647-14&P  
TO-35C2-3-445-14  
TM-6115-14&P/1

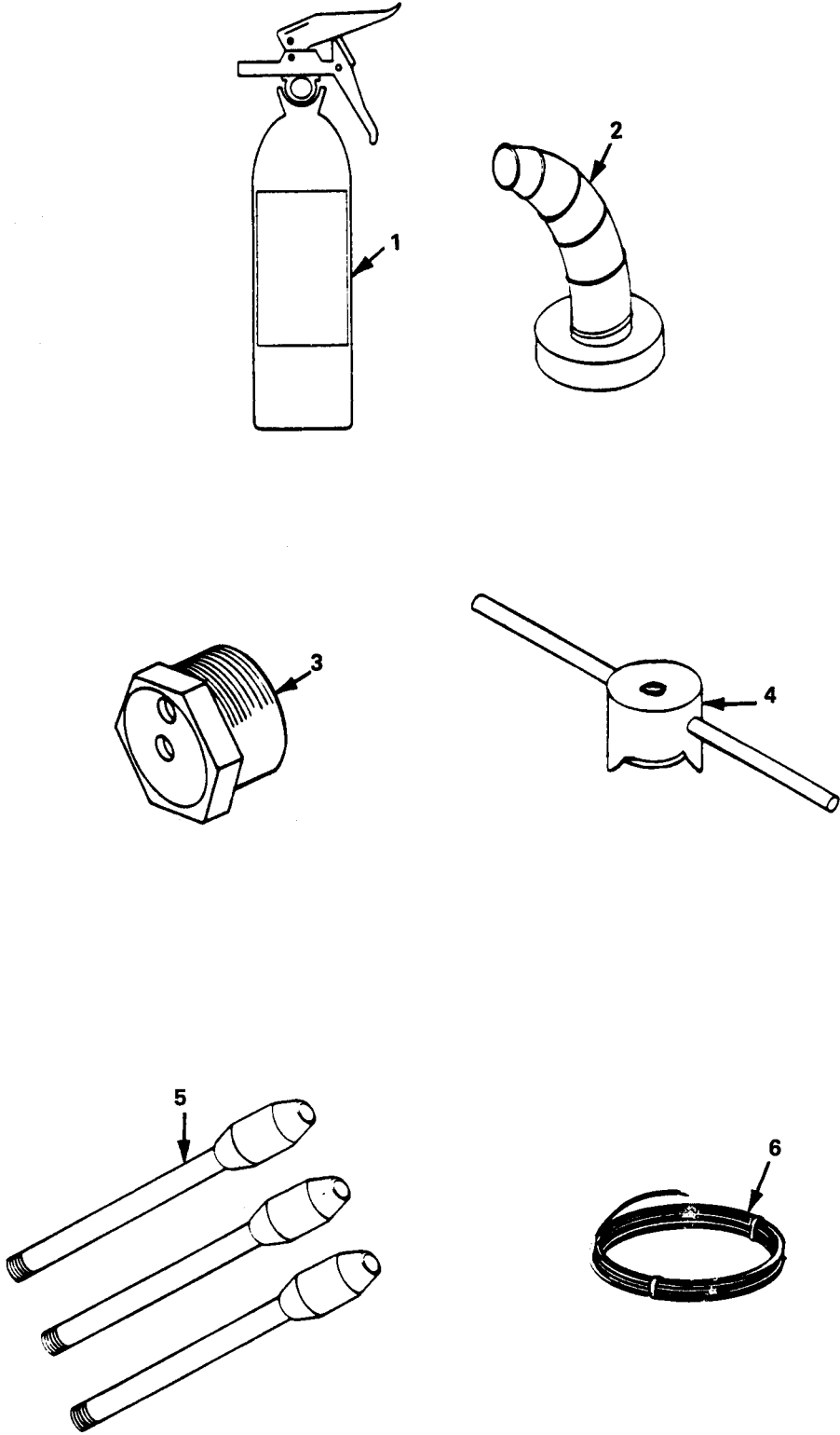


Figure C-1. Basic Issue Items



Section III. BASIC ISSUE ITEMS

(1) ILLUS NO.	(2) NATIONAL STOCK NO.	(3) DESCRIPTION FSCM AND PART NUMBER	(4) USABLE ON CODE	(5) U/M QTY REQ.
		Dept of Army Technical Manuals:		
		TM5-6115-464-12	EA	1
		L05-6115-464-12	EA	1
		TM5-6115-464-24P	EA	1
		TM5-6115-634-14&P	EA	1
		TM9-2330-205-14&P	EA	1
	5220-00-559-9618	Case, Manual	EA	1
1		Extinguisher, Fire 13228E3394	EA	1
2	7240-00-177-6154	Spout, Can, Flexible 838A7511	EA	1
3	2910-00-066-1235	Adapter Assy, Fuel 13211E7541	EA	1
4	5120-01-013-1676	Hammer, Slide P74-144	EA	1
5	5975-00-878-3791	Rod, Ground 3598	EA	2
6		Cable, Ground 13228E3384	EA	1



APPENDIX D  
ADDITIONAL AUTHORIZATION LIST ITEMS

Section I. INTRODUCTION

D-1. Scope.

This appendix lists additional items authorized for support of the system.

D-2. General.

This list identifies items that do not have to accompany the system and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

D-3. Explanation of Listing.

National stock numbers, descriptions and quantities are provided to help you iden-

tify and request the additional items you require to support this equipment. The items are listed in alphabetical sequence by item name under the type document (that is, CTA, MTOE, TDA, or JTA) which authorizes the items(s) to you.

If the item you require differs between serial numbers of the same model, effective serial numbers are shown in the last line of the description. If the item required differs for different models of this equipment, the model is shown under the "Usable On" heading in the description column.

Section II. ADDITIONAL AUTHORIZATION LIST ITEMS

Not applicable.



APPENDIX E  
EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

E-1. Scope

This appendix lists expendable supplies and materials you will need to operate and maintain the Power Distribution Center. These items are authorized to you by CTA 50-970 Expendable Items (except Medical, Class V, Repair Parts, and Heraldic Items).

E-2. Explanation of Columns

a. Column(1)-Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use cleaning compound, item 5, App. D").

b. Column(2)-Level. This column identifies the lowest level of maintenance that requires the listed item.

(enter as applicable)

- C - Operator/Crew
- O - Unit Maintenance
- F - Intermediate Direct Support Maintenance

measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

- H - Intermediate General Support Maintenance
- D - Depot Maintenance

c. Column(3)-National Stock Number. This is the national stock number assigned to the item; use it to request or requisition the item.

d. Column(4)-Description. Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Federal Supply Code for Manufacturer (FSCM) in parentheses followed by the part number.

e. Column(5)-Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This

Section II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

Not applicable.



APPENDIX F  
UNIT, INTERMEDIATE DIRECT SUPPORT AND  
INTERMEDIATE GENERAL SUPPORT  
REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

F-1. Scope.

a. This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic (TMDE); and other special support equipment required for performance of unit, intermediate direct support, and intermediate general support maintenance of the PU794/G. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

b. This RPSTL lists only those new parts required to upgrade the MEP-103A, Precise, Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 15 kW, 3 Phase, 4 wire, 120/208 and 240/416 volts to a 20 kW Generator Set. When parts are not listed in this RPSTL, refer to TM5-6115-464-24&P.

F-2. General.

In addition to Section I, Introduction, this Repair Parts and Special Tools List is divided into the following sections:

a. Section II - Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The lists also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed by item name in FIG BULK at the end of the section.

Repair parts kits or sets are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in the section.

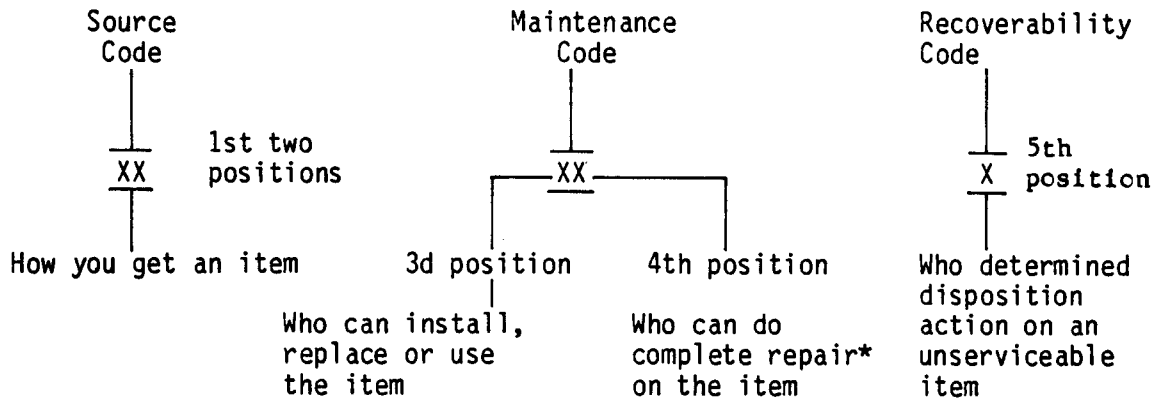
b. Section III - Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE (UOC) column) for the performance of maintenance.

c. Section IV - National Stock Number and Part Number Index. A list, in National Item Identification Number (NIIN) sequence, of all National stock numbered items appearing in the listings, followed by a list in alphanumeric sequence of all part numbers appearing in the listing. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

F-3. Explanation of Columns (Section II and III).

a. ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

SMR CODE (Column (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



\*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

Code	Definition
PA	- Item procured and stocked for anticipated or known usage.
PB	- Item procured and stocked for insurance purposed because essentiality dictates that a minimum quantity be available in the supply system.
PC	- Item procured and stocked, and which otherwise would be coded PA except that it is deteriorative in nature. Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
PD	- Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings.

Not subject to automatic replenishment.

PE	- Support equipment procured and stock for initial issue or outfitting to specified maintenance repair activities.
PF	- Support equipment which will not be stocked but which will be centrally procured on demand.
PG	- Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which because of probable discontinuance or shutdown of production facilities would prove uneconomical to reproduce at a later time.
KD	- An item of depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required the time of overhaul or repair.
KF	- An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or



Code	Definition	AH
	intermediate levels of maintenance.	- Item to be assembled at intermediate maintenance levels.
KB	- Item included in both a depot overhaul/repair kit and a Maintenance kit.	Air Force - Intermediate (*) Army - General Support (*) Marine Corps - 4th Echelon Navy - Ashore
MO	- Item to be manufactured or fabricated at organizational level.	AG - Item to be assembled at both afloat and ashore intermediate maintenance level - Navy use only.
MF	- Item to be manufactured or fabricated at intermediate maintenance levels.  Air Force - Intermediate (*) Army - Direct Support (*) Marine Corps - 4th Echelon Navy - Afloat	AD - Item to be assembled at depot maintenance levels.
MH	- Item to be manufactured or fabricated intermediate maintenance levels.  Air Force - Intermediate (*) Army - General Support (*) Marine Corps - 4th Echelon Navy - Ashore	(* NOTE : For USAF and the USA Safeguard Program, only Code "F" will be used to denote intermediate maintenance. On joint programs use of either code F or H by the joining service will denote intermediate maintenance USAF and the USA Safeguard Program.
MG	- Item to be manufactured or fabricated at both afloat and ashore intermediate maintenance levels - Navy use only.	XA - Do not requisition an "XA" -coded item. Order its next higher assembly. (Also refer to NOTE below.)
MD	- Item to be manufactured or fabricated at depot maintenance level.	XB - If an "XB" item is not available from salvage, order it using the FSCM and part number given.
AO	- Item to be assembled at organizational level.	XC - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
AF	- Item to be assembled at intermediate maintenance levels.  Air Force - Intermediate (*) Army - Direct Support (*) Marine Corps - 3rd Echelon Navy - Afloat	XD - Item is not stocked. Order an "XD" -coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

NOTE : Cannibalization or controlled exchange, when authorized, may be used as a source of supply items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 700-42.

(2) Maintenance Code. Maintenance codes tells you the level (S) of maintenance authorized to USE and REPAIR sup-

port items. The maintenance codes are entered in the third and fourth positions of the SMR Code as follows:

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

Code	Appl i cati on/Expl anati on
C	- Crew or operator maintenance done within unit or aviation unit maintenance.
0	- Unit or aviation unit category can remove, replace, and use the item.
F	- Direct support or aviation intermediate level can remove, replace, and use the item.
H	- General support level can remove, replace, and use the item.
L	- Specialized repair activity can remove, replace, and use the item.
D	- Depot level can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions.) (NOTE: Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.) This position will contain one of the following maintenance codes.

Code	Appl i cati on/Expl anati on
0	- Unit or (aviation unit) is the lowest level that can do complete repair of the item.
F	- Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
H	- General support is the lowest level that can do complete repair of the item.
L	- Specialized repair activity (designate the specialized repair activity) is the lowest level that can do complete repair of the item.
D	- Depot is the lowest level that can do complete repair of the item.
Z	- Nonrepairable. No repair is authorized.
B	- No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item). However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

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

Recoverability Codes	Appl i cati on/Expl anati on
Z	- Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3d position of SMR Code.
0	- Repairable item. When uneconomically repair-

Recoverability Codes	Application/Explanation
	able, condemn and dispose of the item at unit or aviation unit level.
F	- Reparable item. When uneconomically repairable, condemn and dispose of the item at the direct support or aviation intermediate level.
H	- Reparable item. When uneconomically repairable, condemn and dispose of the item at the general support level.
O	- Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
L	- Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
A	- Item requires special handling or condemnation procedures because of specific reasons (e. g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. FSCM Column 3

Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. PART NUMBER (Column (4)). Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

NOTE: When you use a NSN to requisition an item, the item you receive may have a different part number from the part ordered.

e. DESCRIPTION AND USABLE ON CODE (UOC) (Column (5)). This column includes the following information:

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) Items that are included in kits and sets are listed below the name of the kit or set.

(3) Spare/repair parts that make up an assembled item are listed immediately following assembled item line entry.

(4) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated.

(5) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).

(6) The usable on code, when applicable (see paragraph 5, Special information).

(7) In the Special Tools List section, the basis of, issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.

(8) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.

f. Qty (Column (6)). The Qty (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable.

#### F-4. Explanation of Columns (Sect. IV).

##### a. NATIONAL STOCK NUMBER (NSN) INDEX.

(1) STOCK NUMBER column. This column lists the NSN by National Item Identification Number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN (i.e.,

NSN  
5305-01-674-1467  
NIIN

column to locate an item, ignore the first 4 digits of the NSN. However, the complete should be used when ordering items by stock number.

(2) FIG. column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II and Section III.

(3) ITEM column. The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

b. PART NUMBER INDEX. Part numbers in this index are listed by part number in ascending alphanumeric sequence (for example, vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

(1) FSCM column. The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

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

(3) STOCK NUMBER column. This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and FSCM columns to the left.

(4) FIG. column. This column lists the number of the figure where the item is identified/located in Section II and III.

(5) ITEM column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

F-5. Special Information. Use the following subparagraphs as applicable:

The usable on code appears in the lower left corner of the Description column heading. Usable on codes are shown as "UOC: . . . . ." in the Description Column (justified left) on the first line applicable item description/nomenclature. Uncoded items are applicable to all models.

#### F-6. How to Locate Repair Parts.

##### a. When National Stock Number or Part Number is Not Known.

(1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups

and subassembly groups, and listings are divided into the same groups.

(2) Second. Find the figure covering the assembly group or sub-assembly group to which the item belongs.

(3) Third. Identify the item on the figure and note the item number.

(4) Fourth. Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.

(5) Fifth. Refer to the Part Number Index to find the NSN, if assigned.

b. When National Stock Number or Part Number is known:

(1) First. Using the Index of National Stock Numbers and Part Numbers,

find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see 4.1(1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see 4.b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) Second. After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

F-7. Abbreviations. Not Applicable.

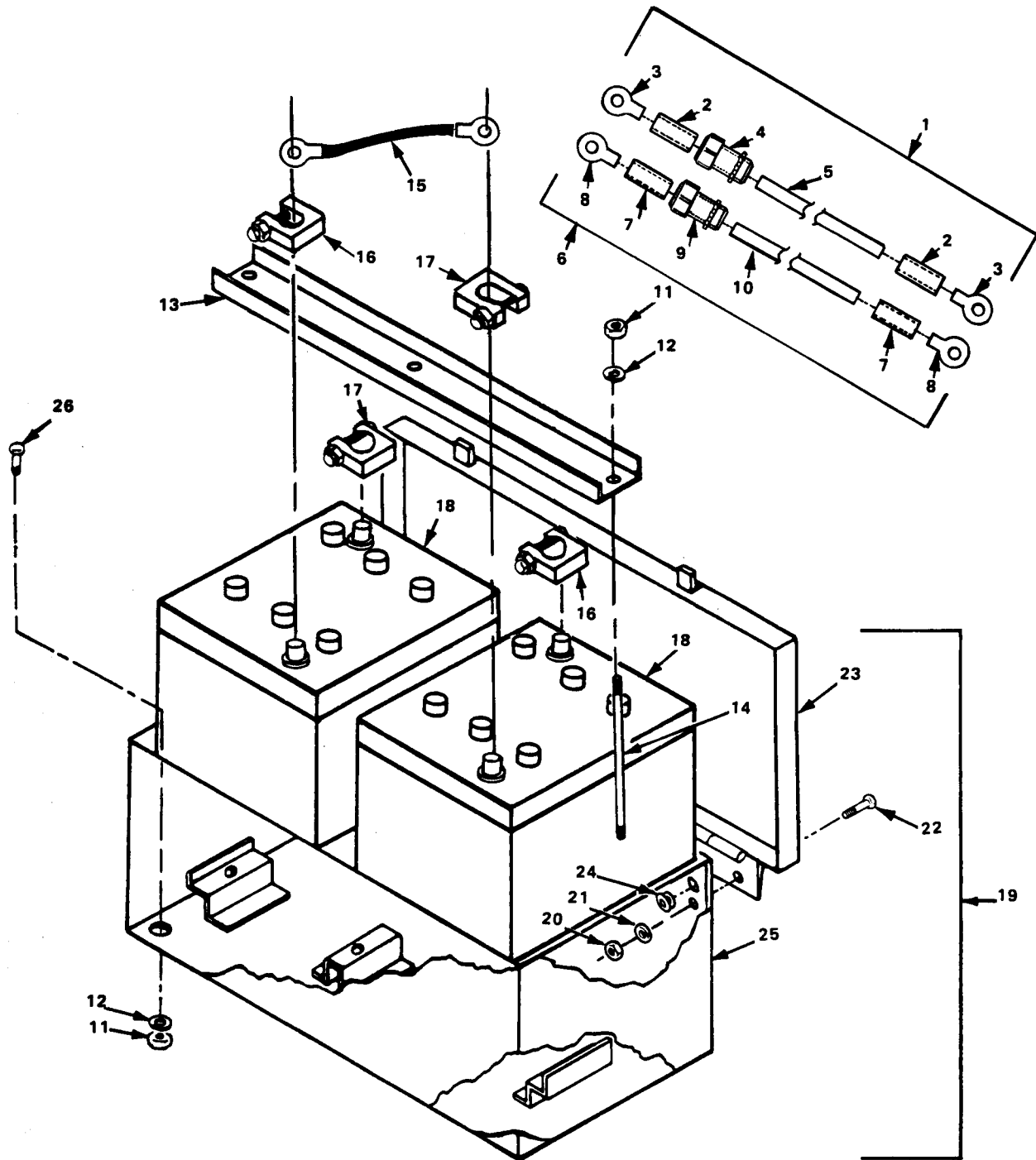


Figure F-1. Battery Box Assembly, Batteries and Cables

SECTION II. REPAIR PARTS LIST

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	(8)	
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
1	1	MFOZZ							CABLE, BATTERY, 13228E3368-1 97403 MANUFACTURE FROM:	ECT	EA	1	
1	2	PAFZZ						5970-00-914-3117	SLEEVING, INSULATION M23053/5-109-2 81349	ECT	FT	1	
1	3	PAFZZ						5940-00-115-2684	TERMINAL LUG MS20659-118 96906	ECT	EA	2	
1	4	PAFZZ							CONNECTOR, STRAIN 2535 59730	ECT	EA	1	
1	5	PAFZZ							CABLE M13486/1-14 81349	ECT	FT	8	
1	6	MFOZZ							CABLE, BATTERY 13228E3368-2 97403 MANUFACTURE FROM:	ECT	EA	1	
1	7	PAFZZ						5970-00-914-3118	SLEEVING, INSULATION M23053/5-109-0 81349	ECT	FT	1	
1	8	PAFZZ						5940-00-115-2684	TERMINAL LUG MS20659-118 96906	ECT	EA	2	
1	9	PAFZZ							CONNECTOR, STRAIN 2535 59730	ECT	EA	1	
1	10	XAOZZ							CABLE M13486/1-14 81349	ECT	FT	8	
1	11	PAOZZ						5310-00-732-0558	NUT, PLAIN HEXAGON MS51967-8 96906	ECT	HD	7	
1	12	PAOZZ						5310-00-637-9541	WASHER, LOCK MS35338-46 96906	ECT	HD	7	
1	13	PAOZZ							RETAINER, BATTERY 1322 8E3361 97403	ECT	EA	1	
1	14	PAOZZ						5306-01-197-1738	ROD, THREADED 72-2067-1 30554	ECT	EA	3	
1	15	PAOZZ						6140-01-209-4410	LEAD, STORAGE BATTERY 70-1582-6 30554	ECT	EA	1	

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION		USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
i. TO. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE					
1	16	PAOZZ						5940-00-549-6583	TERMINAL, LUG MS75004-2 96906	ECT	EA	2		
1	17	PAOZZ						5940-00-549-6581	TERMINAL, LUG MS75004-1 96906	ECT	EA	2		
1	18	PAOZZ							BATTERY, STORAGE MS35000-3 96906	ECT	EA	2		
1	19	XBOZZ							BATTERY, BOX ASSY 13228E3358 97403	ECT	EA	1		
1	20	PAOZZ						5310-00-761-6882	NUT, HEXAGON MS51967-2 96906	ECT	HD	5		
1	21	PAOZZ						5310-00-582-5965	WASHER, LOCK MS35338-44 96906	ECT	HD	5		
1	22	PAOZZ						5305-00-068-0501	SCREW, CAP, HEXAGON MS90725-5 96906	ECT	HD	5		
1	23	XBOZZ							COVER, BATTERY, BOX 13228E3360 97403	ECT	EA	1		
1	24	PAOZZ							BUSHING, INSULATING 69-570-1 30554	ECT	EA	1		
1	25	XBOZZ							BOX, BATTERY 13228E3359 97403	ECT	EA	1		
1	26	PAOZZ						5305-00-942-2196	SCREW, CAP, HEXAGON MS90725-60 96906	ECT	HD	4		



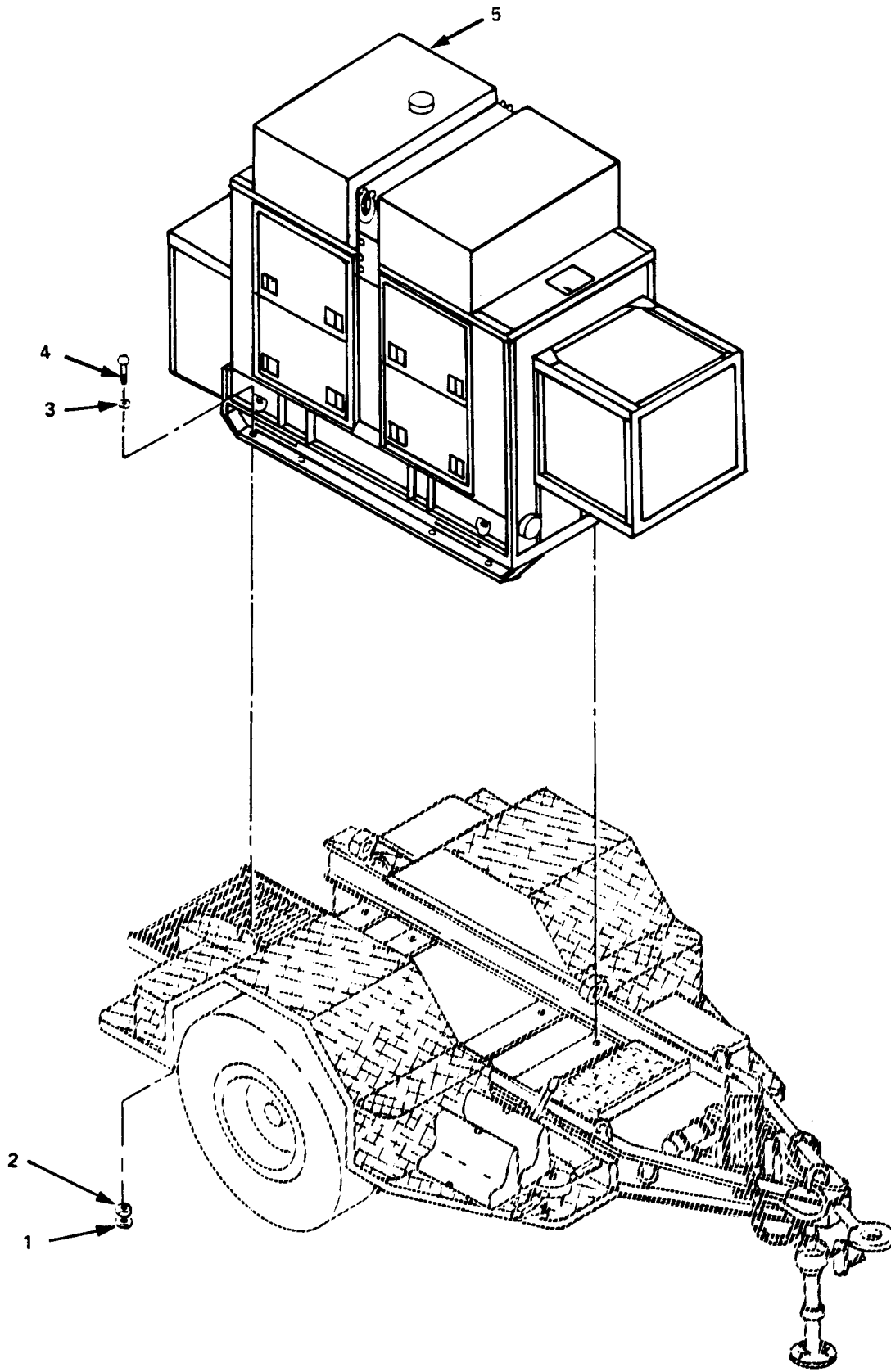


Figure F-2. Generator Set

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUI
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE	USABLE ON CODE			
2	1	PAHZZ						5310-00-004-5038	NUT,HEX MS51967-20 96906	ECT	HD	8	
2	2	PAHZZ						5310-00-820-6653	WASHER,LOCK MS35338-50 96906	ECT	HD	8	
2	3	PAHZZ						5310-00-951-7209	WASHER,FLAT MS27183-22 96906	ECT	HD	8	
2	4	PAHZZ							SCREW,CAP,HEXAGON 13228E1867-3 97403	ECT	EA	8	
2	5	PDHDD							GEN SET 20KW, 60HZ 13228E1868 97403	ECT	EA	1	
<p>NOTE :</p> <p>See TM 5-6115-464-24P for component parts.</p>													

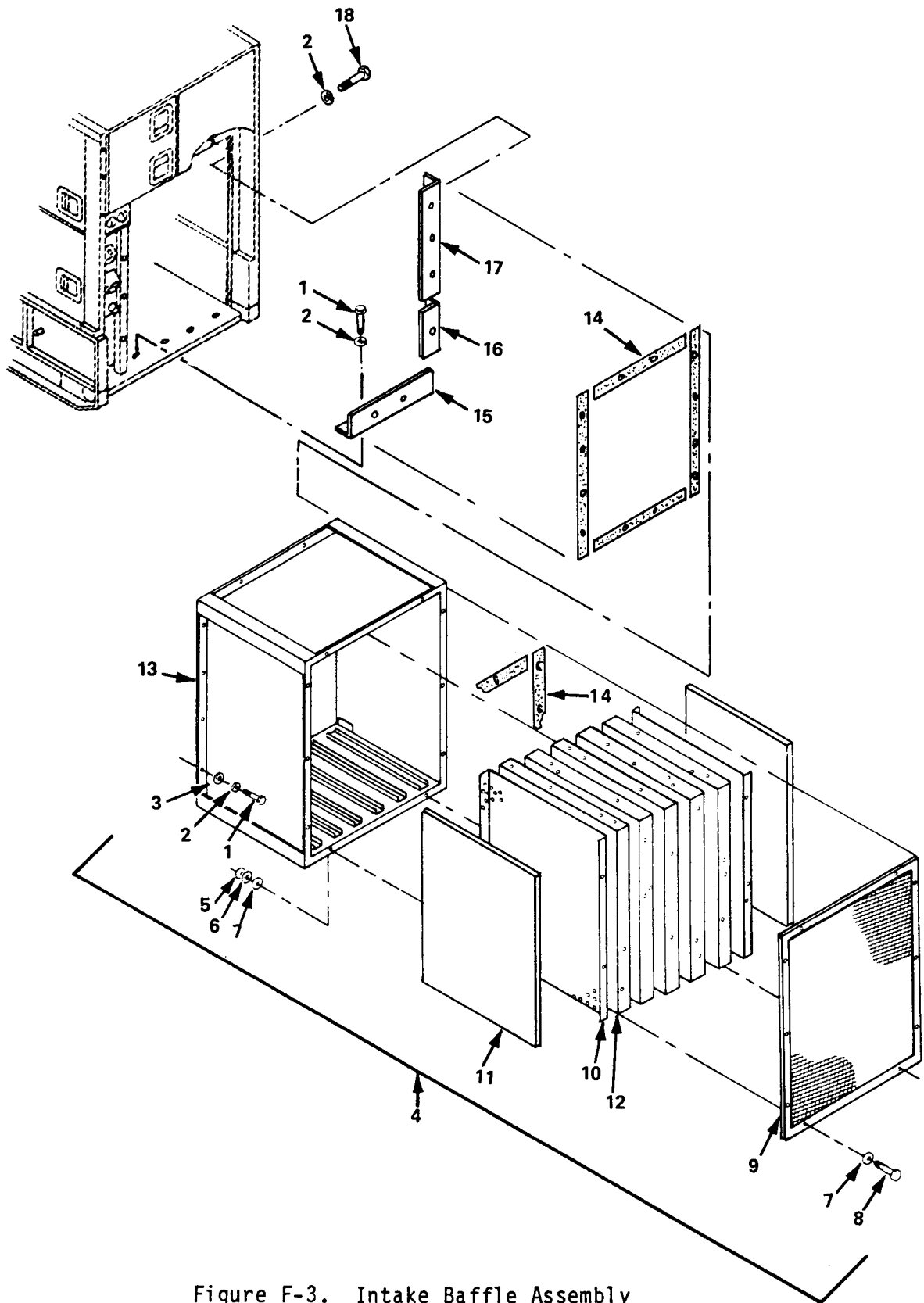


Figure F-3. Intake Baffle Assembly

TM5-6115-634-14&P  
 NAVFAC P-8-647-14&P  
 TO-35C2-3-445-14  
 TM-6115-14&P/1

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION			(6)	(7)	(8)
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE	USABLE OM CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP	
3	1	PAQZZ						5305-00-068-0502	SCREW, CAP, HEXAGON MS90725-6 96906	ECT	HD	18		
3	2	PAQZZ						5310-00-582-5965	WASHER, LOCK MS35338-44 96906	ECT	HD	21		
3	3	PAQZZ						5310-00-809-4058	WASHER, FLAT MS27183-10 96906	ECT	HD	12		
3	4	PBOFF							BAFFLE, ABSY INTAKE 13228E1877 97403	ECT	EA	1		
3	5	PAQZZ						5310-00-934-9757	NUT, PLAIN, HEXAGON MS35649-282 96906	ECT	HD	10		
3	6	PAQZZ						5310-00-045-3299	WASHER, LOCK MS35338-42 96906	ECT	HD	10		
3	7	PAQZZ						5310-00-809-8544	WASHER, FLAT MS27183-7 96906	ECT	HD	20		
3	8	PAQZZ						5305-00-984-6195	SCREW, MACHINE MS35206-247 96906	ECT	HD	10		
3	9	XBOZZ							GRID, INTAKE 1322 8E1878 97403	ECT	EA	1		
3	10	XBOZZ							CHANNEL, END BAFFLE 13228E3366-1 97403	ECT	EA	2		
3	11	PAQZZ							BAFFLE, CENTER INTAK 13228E1880 97403	ECT	EA	5		
3	12	PAQZZ							INSULATION 13228E1942-1 97403	ECT	EA	2		
3	13	XBOFZ							BAFFLE, HOUSING, 13228E1881 97403	ECT	EA	1		
3	14	XAFZZ							GASKET 13228E 1940 97403	ECT	EA	2		
3	15	XBOZZ							FLANGE, BOTTOM, 13228E1950 97403	ECT	EA	1		
3	16	XBOZZ							FLANGE, SIDE, LOWER, 13228E1943 97403	ECT	EA	1		

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		(6) USABLE ON CODE U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP	
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE					
3	17	XBOZZ							FLANGE,SIDE,UPPER, 13228E1921	97403	ECT	EA	1	
3	18	PAQZZ						5305-00-068-0500	SCREW,CAP,HEXAGON MS90723-3	96906	ECT	HD	3	

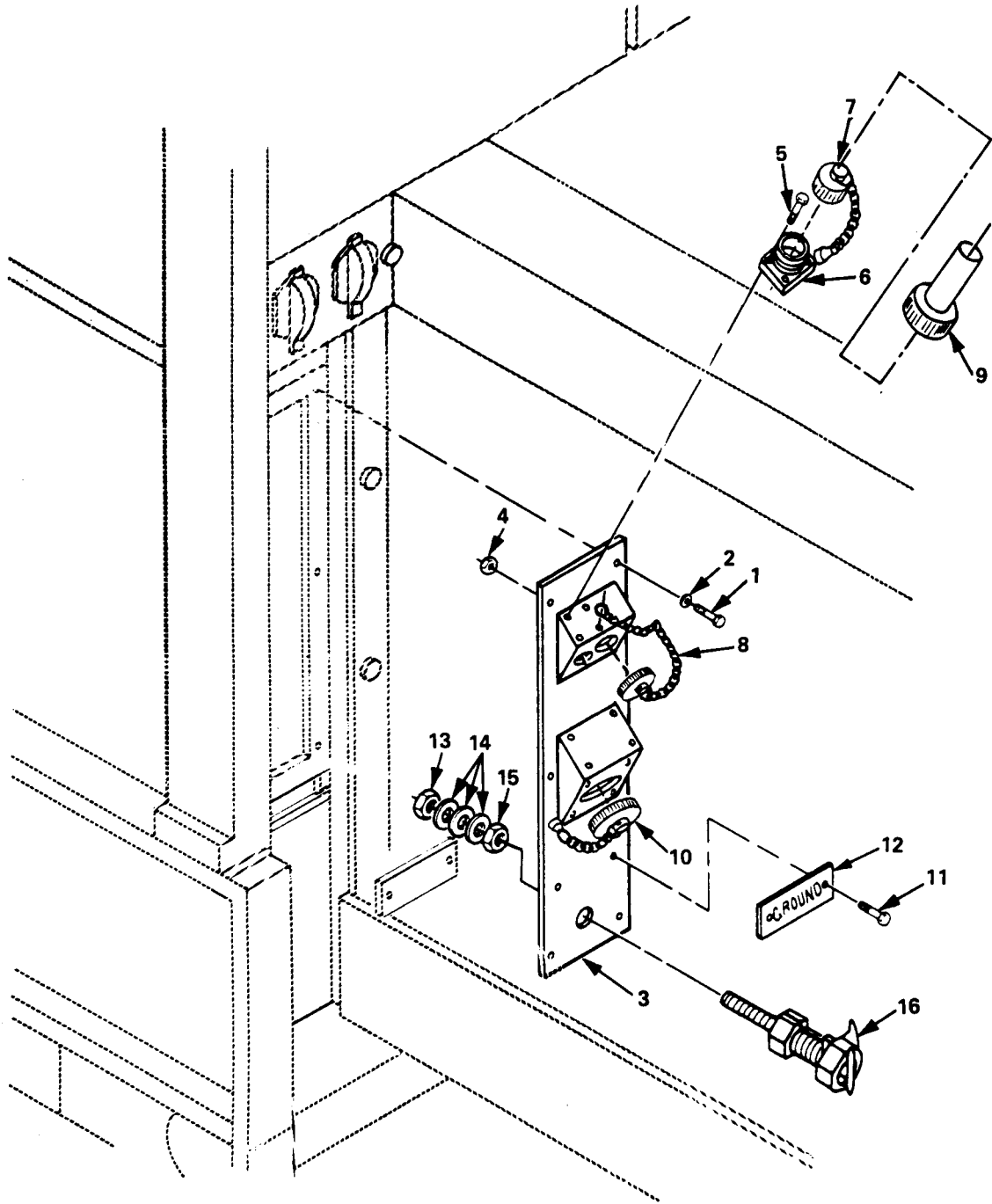


Figure F-4. Connector Plate

(1) ILLUSTRATION		(2) SNR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		(6) USABLE ON CODE U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. 881	b. REPL FACTOR		REF NUMBER & MFR CODE				
4	1	PAOZZ						5305-00-068-0500	SCREW,CAP,HEXAGON MS90725-3 96906	ECT	HD	6	
4	2	PAOZZ						5310-00-582-5965	WASHER,LOCK MS35338-44 96906	ECT	HD	6	
4	3	XBOZZ							PLATE, CONNECTOR 13228E1902 97403	ECT	EA	1	
4	4	PAOZZ						5310-00-063-7360	NUT, PLAIN, ASSEMBLED 511-061800-00 78189	ECT	EA	4	
4	5	PAOZZ						5305-00-054-6655	SCREW, MACHINE MS1957-31 96906	ECT	HD	4	
4	6	PAOZZ							CONN,RECEPTACLE 13228E1952 97403	ECT	EA	1	
4	7	PAOZZ							CAP ASSY,PROTECTIVE 13228E3385 97403	ECT	EA	1	
4	8	PAOZZ						5935-01-128-1348	CAP ASSY,PROTECT IVE 10-552943-239 77820	ECT	EA	1	
4	9	PAOZZ							PLUG, SHORTING, 1322 8E3383 97403	ECT	EA	1	
4	10	PAOZZ						5935-01-076-4602	COVER, ELECTRICAL MS17350C36 96906	ECT	EA	1	
4	11	PAOZZ						5305-00-253-5615	SCREW, DRIVE MS21318-21 96906	ECT	HD	2	
4	12	XBOZZ						9905-00-477-4137	PLATE, IDENT 13211 E6730 97403	ECT	EA	1	
4	13	PAOZZ						5310-00-897-6082	NUT , HEXAGON MS35691-36 96906	ECT	EA	1	
4	14	PAOZZ						5310-00-045-5218	WASHER,FLAT MS15795-918 96906	ECT	EA	3	
4	15	PAOZZ						5310-01-017-3876	NUT, SELF-LOCKING TLF-1213-B-JAM 82458	ECT	EA	1	
4	16	PAOZZ						5940-01-009-4763	TERMINAL,LOAD 69-692-1 30554	ECT	EA	1	

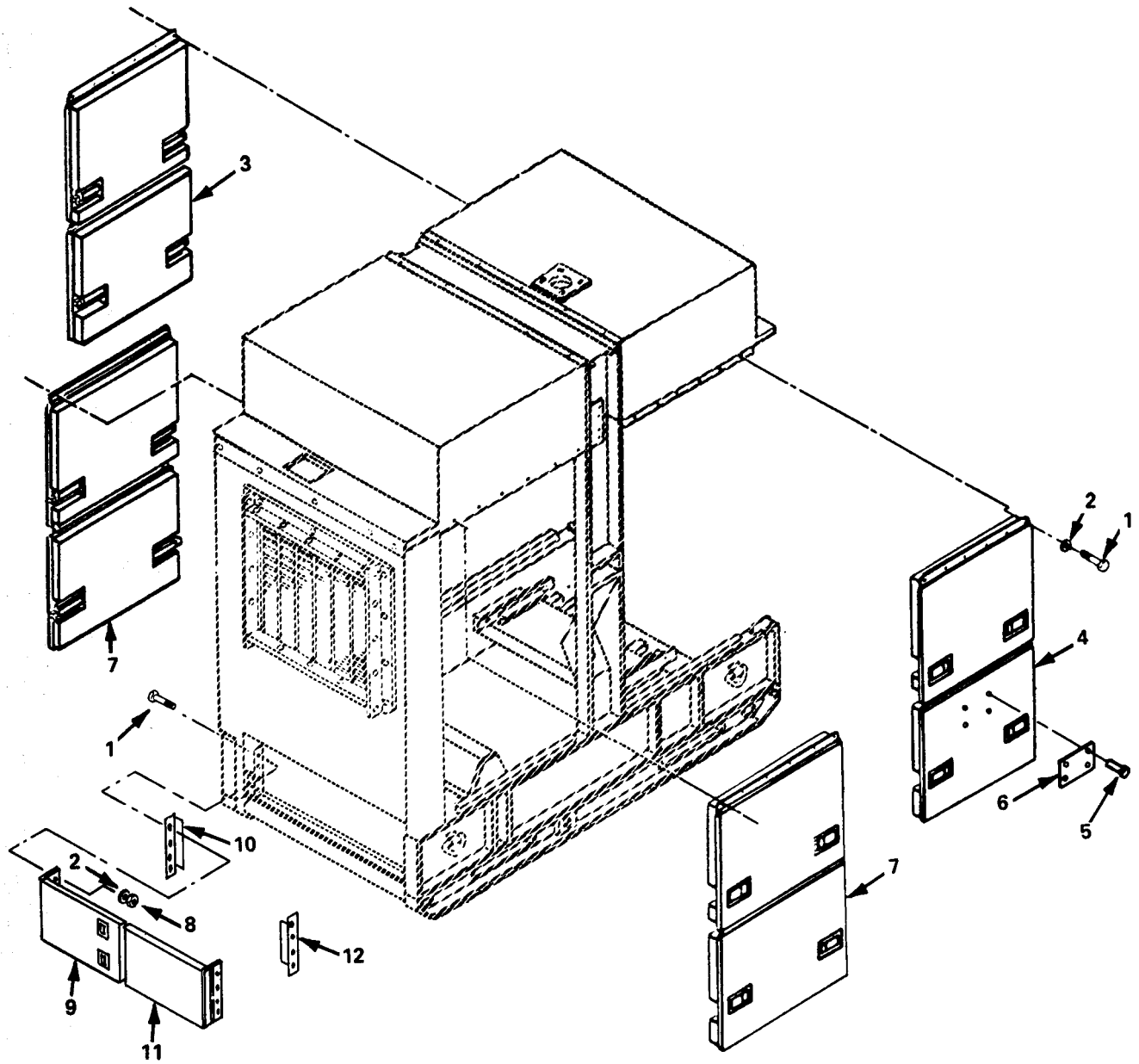


Figure F-5. Access Doors



(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR						
5	1	PAOZZ						5305-00-068-0500	SCREW,CAP,HEXAGON MS90725-3 96906	ECT	HD	32	
5	2	PAOZZ						5310-00-582-5965	WASHER,LOCK MS35338-44 96906	ECT	HD	32	
5	3	XBOFF							DOOR,ACCESS 13228E3363-2 97403	ECT	EA	1	
5	4	XBOFF							DOOR,ACCESS 13228E3363-3 97403	ECT	EA	1	
5	5	PAFZZ						5320-00-303-1060	RIVET, BLIND M24243/1-8502 81349	ECT	EA	4	
5	6	XBFZZ							PLATE, INSTRUCTION 13228E1961 97403	ECT	EA	1	
5	7	XBOFF							DOOR, ACCESS , 13228E3363-1 97403	ECT	EA	2	
5	8	PAOZZ						5310-00-761-6882	NUT ,HEXAGON MS1967-2 96906	ECT	HD	8	
5	9	XBOFF							DOOR ,ACCESS , 13228E3379 97403	ECT	EA	1	
5	10	XBOZZ							BRACKET, ACCESS DOOR 1322 8E3382-2 97403	ECT	EA	1	
5	11	XBOFF							DOOR, ACCESS, 1322 8E3378 97403	ECT	EA	1	
5	12	XBOZZ							BRACKET, ACCESS DOOR 1322 8E3382-1 97403	ECT	EA	1	

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NAVFAC P-8-647-14&P  
TO-35C2-3-445-14  
TM-6115-14&P/1

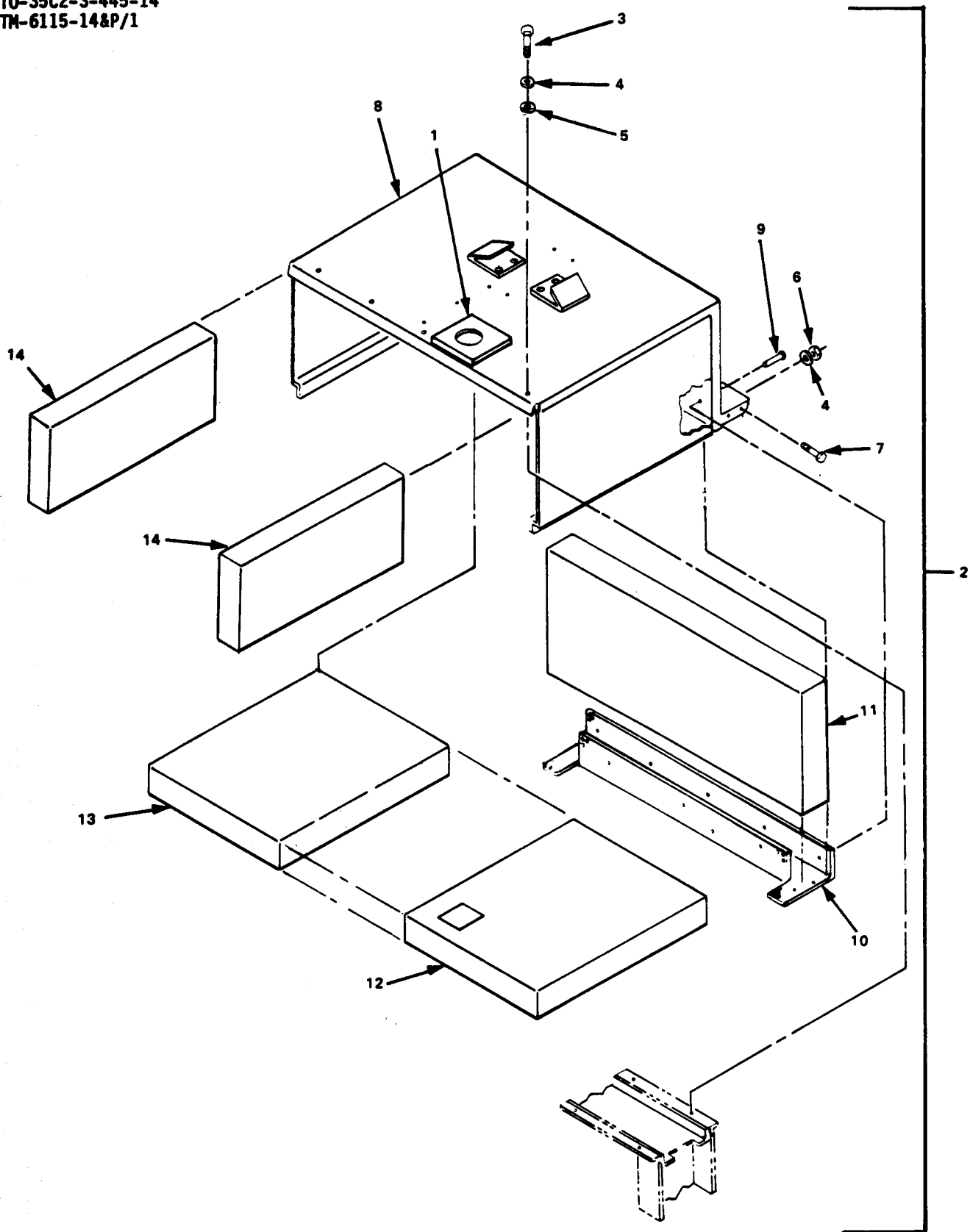


Figure F-6. Generator Set Top Rear Cover

ILLUSTRATION		SMR CODE				USMC		(4)	DESCRIPTION		(6)	(7)	(8)
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SSI	f. REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	UNIT	QTY PER EQUIP	
6	1	XBOZZ							PLATE, EXHAUST 13228E3386 97403	ECT	EA	1	
6	2	XBOFF							GEN SET, ASSY COVER 13228E3376 97403	ECT	EA	1	
6	3	PAOZZ						5305-00-068-0500	SCREW, CAP, HEXAGON M890725-3 96906	ECT	HD	5	
6	4	PAOZZ						5310-00-582-5965	WASHER, LOCK M635338-44 96906	ECT	HD	9	
6	5	PAOZZ						5310-00-809-4058	WASHER, FLAT M827183-10 96906	ECT	HD	5	
6	6	PAOZZ						5310-00-761-6882	NUT, HEXAGON M851967-2 96906	ECT	HD	4	
6	7	PAOZZ						5305-00-068-0502	SCREW, CAP, HEXAGON M890725-6 96906	ECT	HD	4	
6	8	PAFZZ							HOUSING, GEN SET, 13228E1954 97403	ECT	EA	1	
6	9	PAFZZ						5320-00-850-3266	RIVET, BLIND M24243/ 1-A602 81349	ECT	HD	7	
6	10	XBFZZ							RETAINER, INSULATION 13228E3372 97403	ECT	EA	1	
6	11	PAFZZ							INSULATION 13228E3373-2 97403	ECT	EA	1	
6	12	PAFZZ							INSULATION 13228E3373-6 97403	ECT	EA	1	
6	13	PAFZZ							INSULATION 13228E3373-5 97403	ECT	EA	1	
6	14	PAFZZ							INSULATION 13228E3373-4 97403	ECT	EA	2	

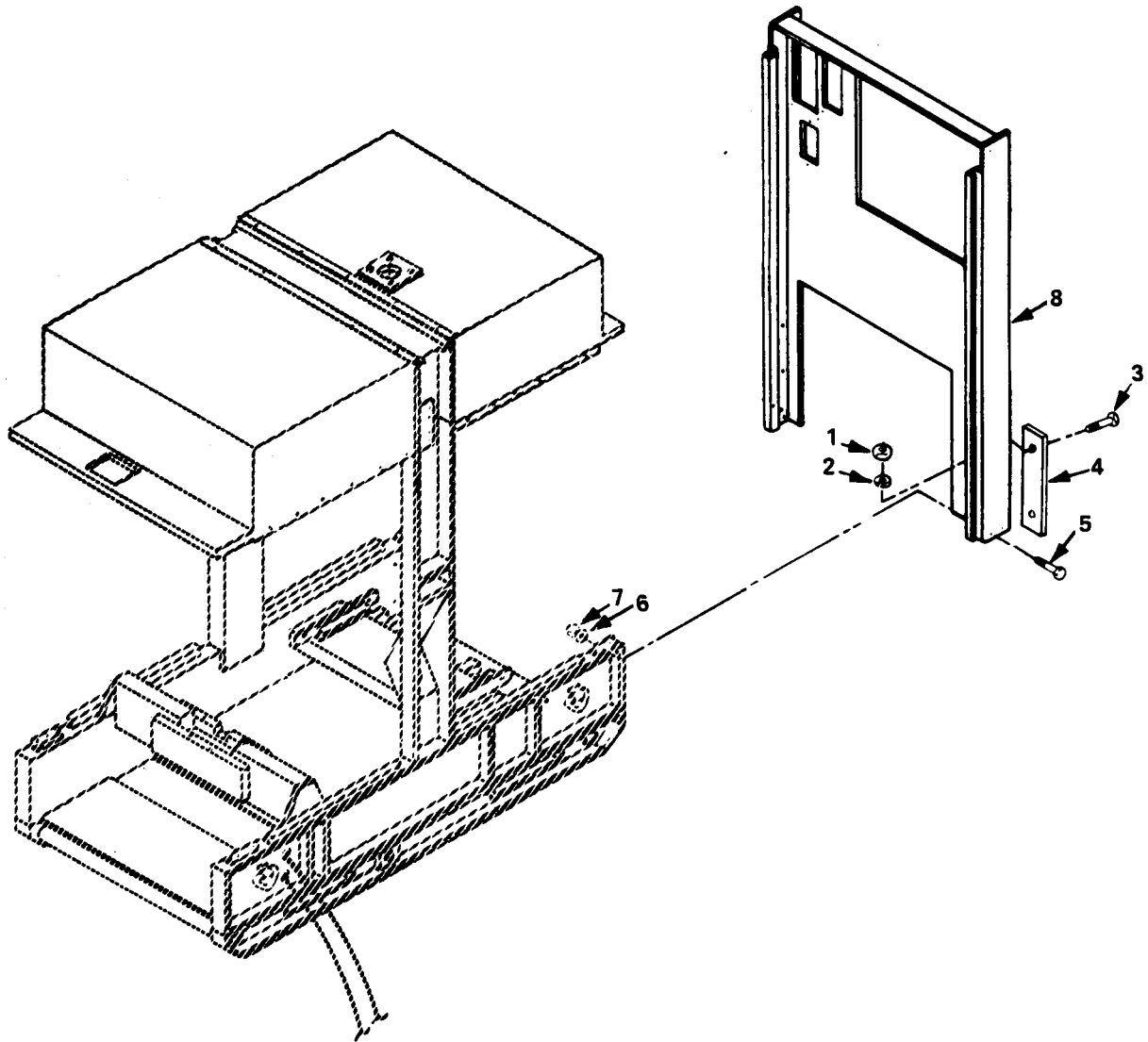


Figure F-7. Generator Set Rear Housing

(1) ILLUSTRATION		(2) SNR CODE				(3) USMC		(4)	(5) DESCRIPTION		(6)	(7)	(8)
i. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SSI	b. REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
7	1	PAOZZ						5310-00-761-6882	NUT, HEXAGON MS51967-2 96906	ECT	HD	2	
7	2	PAOZZ						5310-00-582-5965	WASHER, LOCK MS35338-44 96906	ECT	HD	4	
7	3	PAOZZ						5305-00-068-0500	SCREW, CAP, HEXAGON MS90725-3 96906	ECT	HD	4	
7	4	XBOZZ							HOUSING, GEN SET, 13228E3377 97403	ECT	EA	1	
7	5	PAOZZ						5306-00-226-4825	SCREW, CAP, HEXAGON MS90728-32 96906	ECT	HD	14	
7	6	PAOZZ						5310-00-407-9566	WASHER, LOCK MS35338-45 96906	ECT	HD	14	
7	7	PAOZZ						5310-00-880-7744	NUT, HEXAGON MS51967-5 96906	ECT	HD	14	
7	8	XBOFF							REAR HOUSING, GENSET 13228E1901 97403	ECT	EA	1	

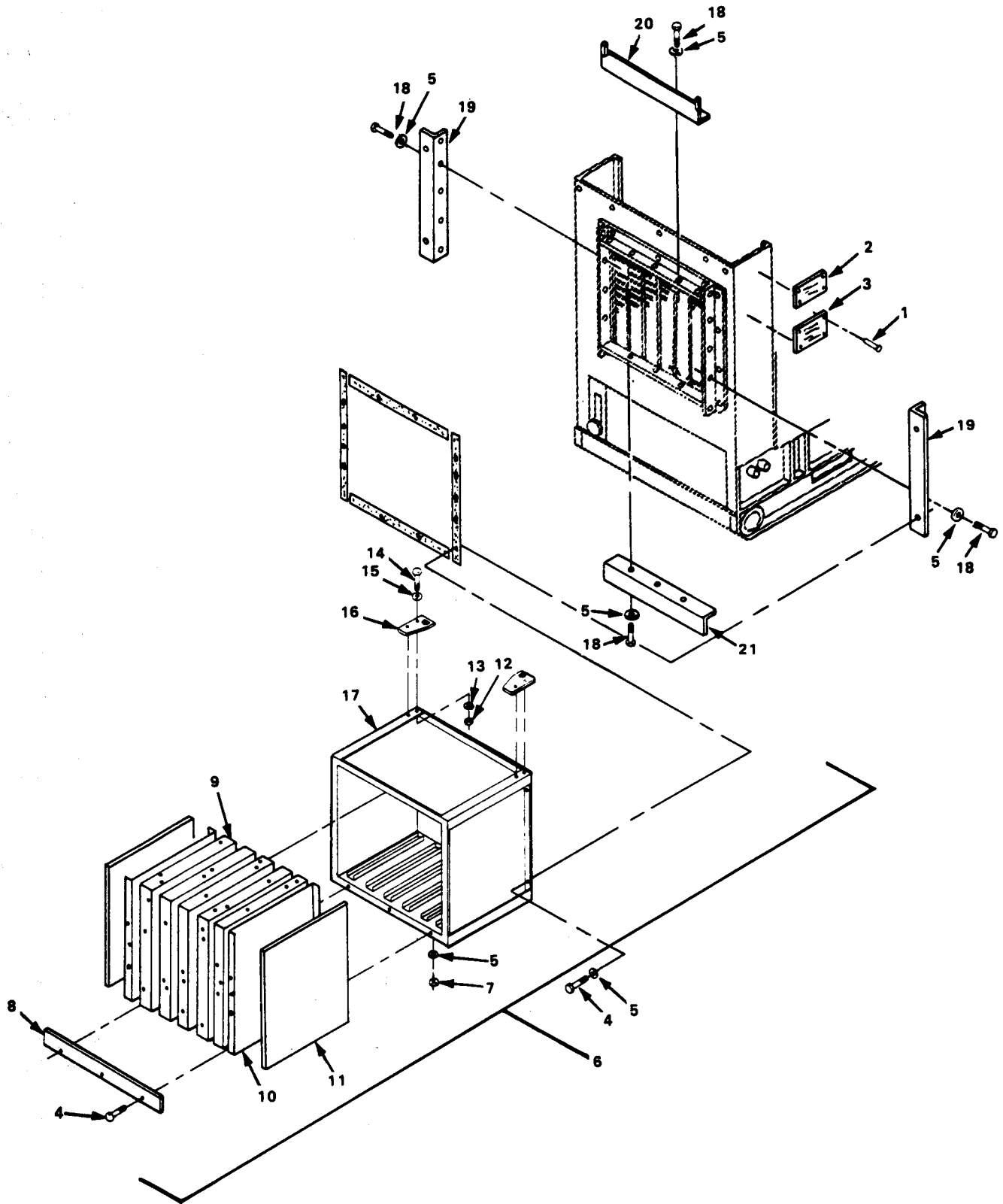


Figure F-8. Exhaust Baffle Assembly

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION		(6)	(7)	(8)
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
8	1	PAFZZ						5320-00-303-1060	RIVET, BLIND M24243/1-8502 81349	ECT	EA	8	
8	2	XBFZZ							PLATE, IDENT 13228E1879 97403	ECT	EA	1	
8	3	XBFZZ							PLATE, INFORMATION 13228E1956 97403	ECT	EA	1	
8	4	PAOZZ						5305-00-225-3843	SCREW, CAP, HEXAGON MS90728-8 96906	ECT	HD	7	
8	5	PAOZZ						5310-00-582-5965	WASHER, LOCK MS35338-44 96906	ECT	HD	7	
8	6	XBOFZ							BAFFLE ASSY, EXHAUST 13228E1958 97403	ECT	EA	1	
8	7	PAOZZ						5310-00-761-4882	NUT, HEXAGON MS51967-2 96906	ECT	HD	3	
8	8	XBOZZ							BAFFLE BAR 13228E1960 97403	ECT	EA	1	
8	9	XBOZZ							BAFFLE, CENTER, 13228E1962 97403	ECT	EA	5	
8	10	XBOZZ							CHANNEL, END BAFFLE 13228E3366-2 97403	ECT	EA	2	
8	11	PAOZZ							INSULATION 13228E1942-2 97403	ECT	EA	2	
8	12	PAOZZ						5310-00-880-7744	NUT, HEXAGON MS51967-5 96906	ECT	HD	4	
8	13	PAOZZ						5310-00-407-9566	WASHER, LOCK MS35338-45 96906	ECT	HD	4	
8	14	PAOZZ						5306-00-225-8499	SCREW, CAP, HEXAGON MS90725-34 96906	ECT	HD	4	
8	15	PAOZZ						5310-00-081-4219	WASHER, FLAT MS27183-12 96906	ECT	HD	4	
8	16	IAOZZ							HANG PLATE 13228E1963 97403	ECT	EA	2	

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION  REF NUMBER & MFR CODE	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR						
8	17	XBOFF						5305-00-225-3843	HOUSING, BAFFLE , 13228E1959 97403	ECT	EA	1	
8	18	PAOZZ							SCREW , CAP, HEXAGON MS90728-8 96906	ECT	HD	8	
8	19	XBOZZ							FLANGE, SIDE, EXHAUST 13228E1965 97403	ECT	EA	2	
8	20	XBOZZ							FLANGE, TOP ,EXHAUST 13228E1964 97403	ECT	EA	1	
8	21	XBOZZ							FLANGE, BOTTON 13228E1966 97403	ECT	EA	1	



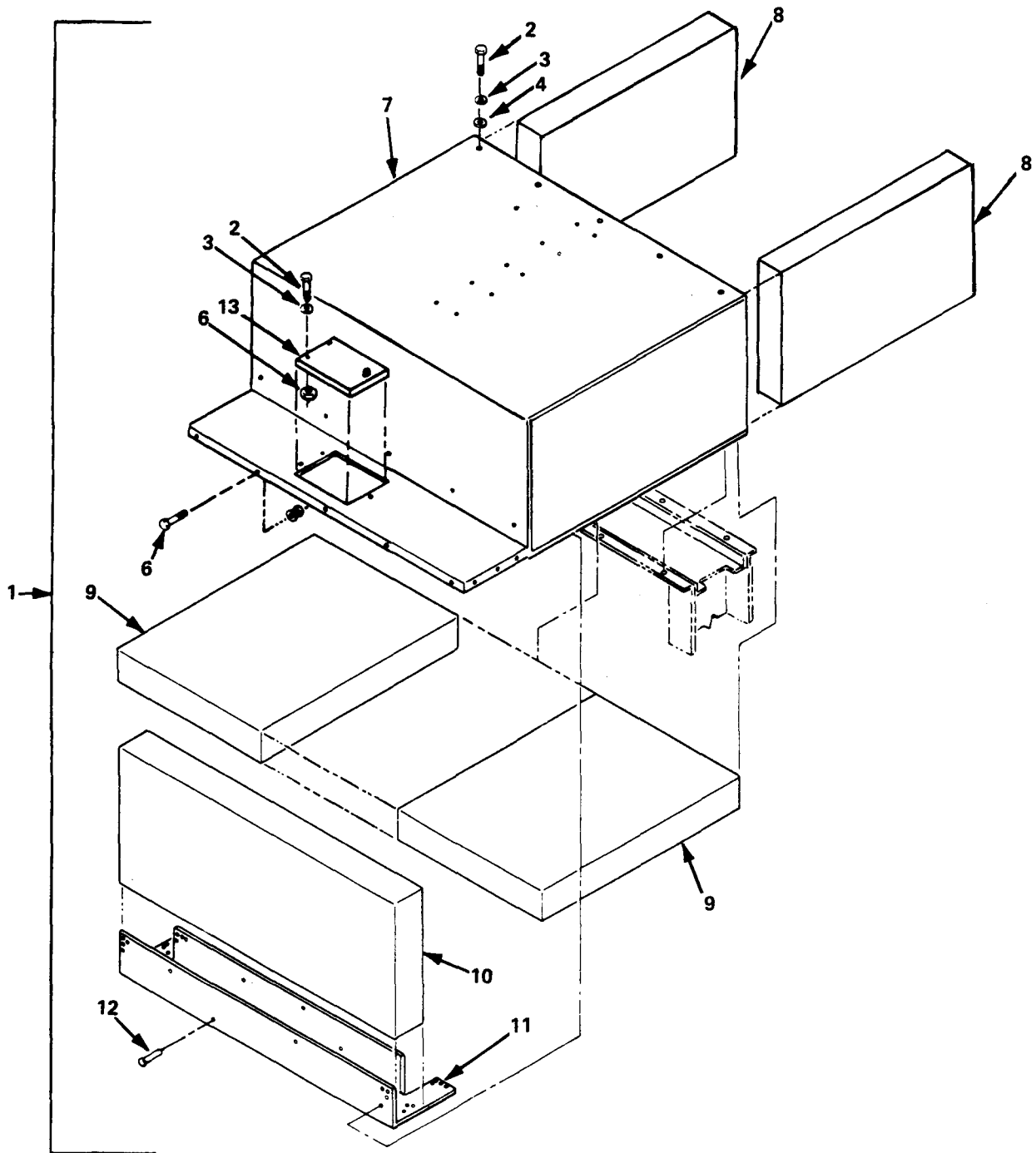


Figure F-9. Generator Set Top Front Cover

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE OM CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE					
9	1	XBOFF							GEN SET, ASSY 13228E3375 97403	ECT	EA	1		
9	2	PAQZZ						5305-00-068-0500	SCREW,CAP,HEXAGON MS90725-3 96906	ECT	HD	7		
9	3	PAQZZ						5310-00-582-5965	WASHER,LOCK MS35338-44 96906	ECT	HD	18		
9	4	PAQZZ						5310-00-809-4058	WASHER,FLAT MS27183-10 96906	ECT	HD	5		
9	5	PAQZZ						5310-00-761-6882	NUT, HEXAGON MS1967-2 96906	ECT	HD	13		
9	6	PAQZZ						5305-00-068-0502	SCREW,CAP,HEXAGON MS90725-6 96906	ECT	HD	11		
9	7	XBFZZ							HOUSING, GEN SET, 13228E1953 97403	ECT	EA	1		
9	8	PAFZZ							INSULATION 13228E3373-1 97403	ECT	EA	2		
9	9	PAQZZ							INSULATION 13228E3373-3 97403	ECT	EA	2		
9	10	PAFZZ							INSULATION 13228E3373-2 97403	ECT	EA	1		
9	11	XBFZZ							RETAINER, INSULATION 13228E3372 97403	ECT	EA	1		
9	12	PAFZZ						5320-00-850-3266	RIVET, BLIND M24243/1-A602 81349	ECT	HD	7		
9	13	XBOZZ						611 5-01-213-8791	DOOR ,ACCESS, 72-2121 30554	ECT	EA	1		

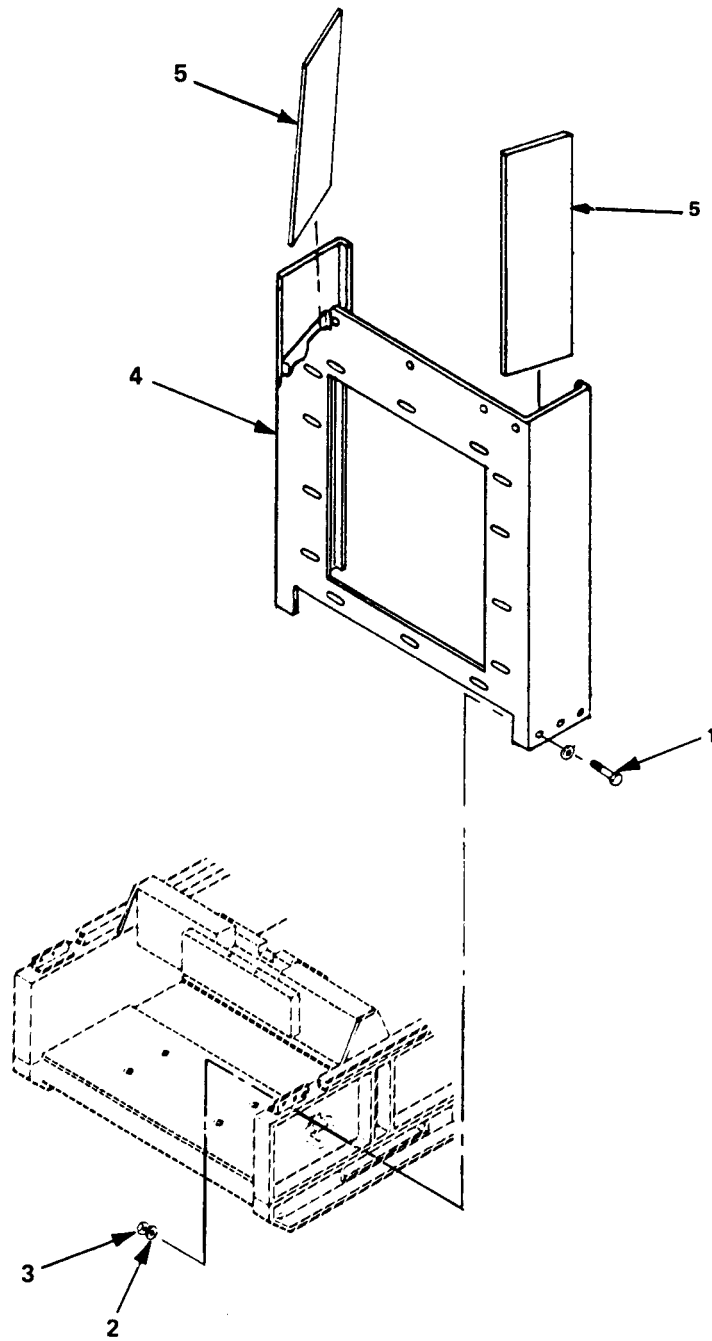


Figure F-10. Generator Set Front Housing

ILLUSTRATION								(4)	(5)		(6)	(7)	(8)
SMR CODE								NATIONAL STOCK NUMBER	DESCRIPTION	USABLE OM CODE	/M	ITY INCM INIT	USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SSI	f. REPL FACTOR						
10	1	'AOZZ						5306-00-226-4825	SCREW,CAP,HEXAGON MS90728-32 96906	ECT	HD	6	
10	2	'AOZZ						5310-00-407-9566	WASHER,LOCK MS35338-45 96906	ECT	HD	6	
10	3	'AOZZ						5310-00-880-7744	NUT, HEXAGON MS1967-5 96906	ECT	HD	6	
10	4	'AFZZ							HOUSING , GEN SET, 13228E1884 97403	ECT	EA	1	
10	5	'AFZZ							SOUND PANEL,HOUS ING 13228E3380 97403	ECT	EA	2	

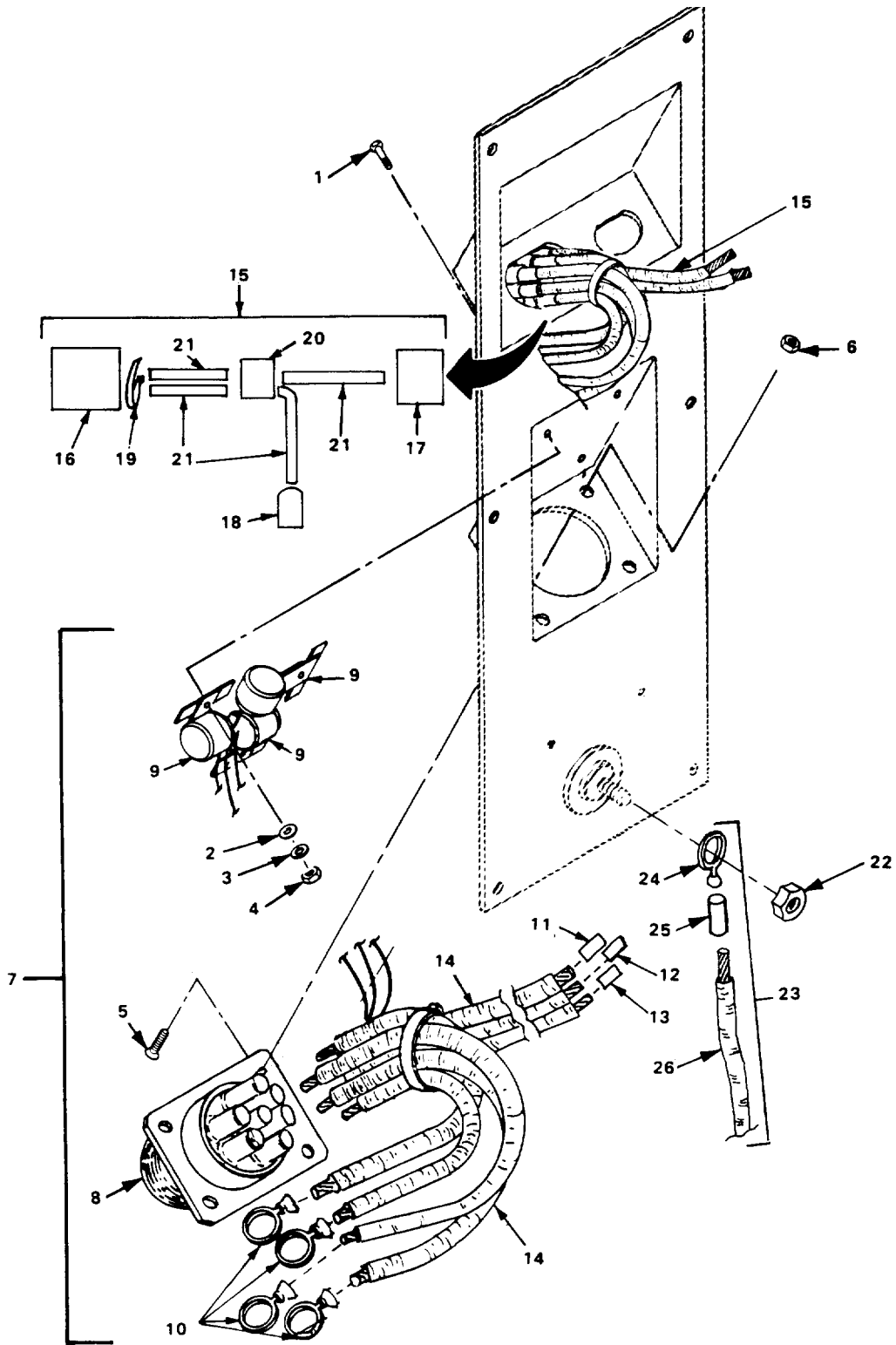


Figure F-11. Power Wiring Harness and Control Wiring Harness

(1) ILLUSTRATION		(2) SNR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		(6) USABLE ON CODE	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE		U/M		
11	1	PAQZZ						5306-00-223-8499	SCREW,CAP,HEXAGON MS90725-34 96906	ECT	HD	3	
11	2	PAQZZ						5310-00-809-4058	WASHER,FLAT MS27183-10 96906	ECT	HD	3	
11	3	PAQZZ						5310-00-582-5965	WASHER,LOCK MS35338-44 96906	ECT	HD	3	
11	4	PAQZZ						5310-00-761-6882	NUT, HEXAGON MS51967-2 96906	ECT	HD	3	
11	5	PAQZZ						5305-00-059-3660	SCREW,MACHINE MS51958-64 96906	ECT	HD	4	
11	6	PAQZZ						5310-01-012-3595	NUT, PLAIN 69-561-6 30554	ECT	EA	4	
11	7	MDFFF							HARNESS , WIRING,POWER 13228E1951 97403	ECT	EA	1	
11	8	PAFZZ							CONNECTOR,ELEC MS17346R36N776 96906	ECT	EA	1	
11	9	PAFZZ						5920-00-033-0266	SURGE,PROTECTOR 2301-38 23663	ECT	EA	3	
11	10	PAFZZ							TERMINAL,RING, F-666-12X 98410	ECT	EA		
11	11	PAFZZ						5970-00-812-2967	SLEEVING,INSULATION M23053/5-108-0 81349	ECT	FT	V	
11	12	PAFZZ						5970-00-915-9186	SLEEVING,INSULATION M23053/5-108-2 81349	ECT	FT	V	
11	13	PAFZZ						5970-00-944-1329	SLEEVING,INSULATION M23053/5-108-6 81349	ECT	FT	V	
11	14	PAFZZ						6145-00-578-6595	WIRE, ELECTRICAL, MS086/2-4-9 81348	ECT	FT	V	
11	15	MDFFF							WIRING HARNESS ,CONTROL 13228E1909 97403 MANUFACTURE FROM:	ECT	EA	1	
11	16	PAFZZ						5935-01-075-9503	CONNECTOR,PLUG MS3456W20-29P 96906	ECT	EA	1	

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR						
11	17	PAFZZ							CONNECTOR,ELEC D38999/24FD55 81349	ECT	EA	1	
11	18	PAFZZ							CONN,RECEPTACLE 13228E1949 97403	ECT	EA	1	
11	19	PAFZZ						5975-00-111-3208	STRAP, TIEDOWN MS3367-5-9 96906	ECT	HD	V	
11	20	PAFZZ						5975-00-944-1499	STRAP ,CABLE MS3368-1-9A 96906	ECT	HD	1	
11	21	PAFZZ						6145-00-578-6605	WIRE, ELECTRICAL , MS086/2-16-9 81349	ECT	FT	V	
11	22	PAQZZ						5310-00-732-0558	NUT, PLAIN HEXAGON MS31967-8 96906	ECT	HD	1	
11	23	MFQZZ							WIRE,GROUND 13228E1900 97403 MANUFACTURE FROM:	ECT	EA	1	
11	24	PAFZZ							TERMINAL, RING, F-666-12X 98410	ECT	EA	1	
11	25	PAQZZ							SLEEVING INSULATION M23053/5-108-9 81349	ECT	FT	1	
11	26	PAQZZ						6145-00-578-6595	WIRE,ELECTRICAL, MS086/2-4-9 81348	ECT	FT	V	

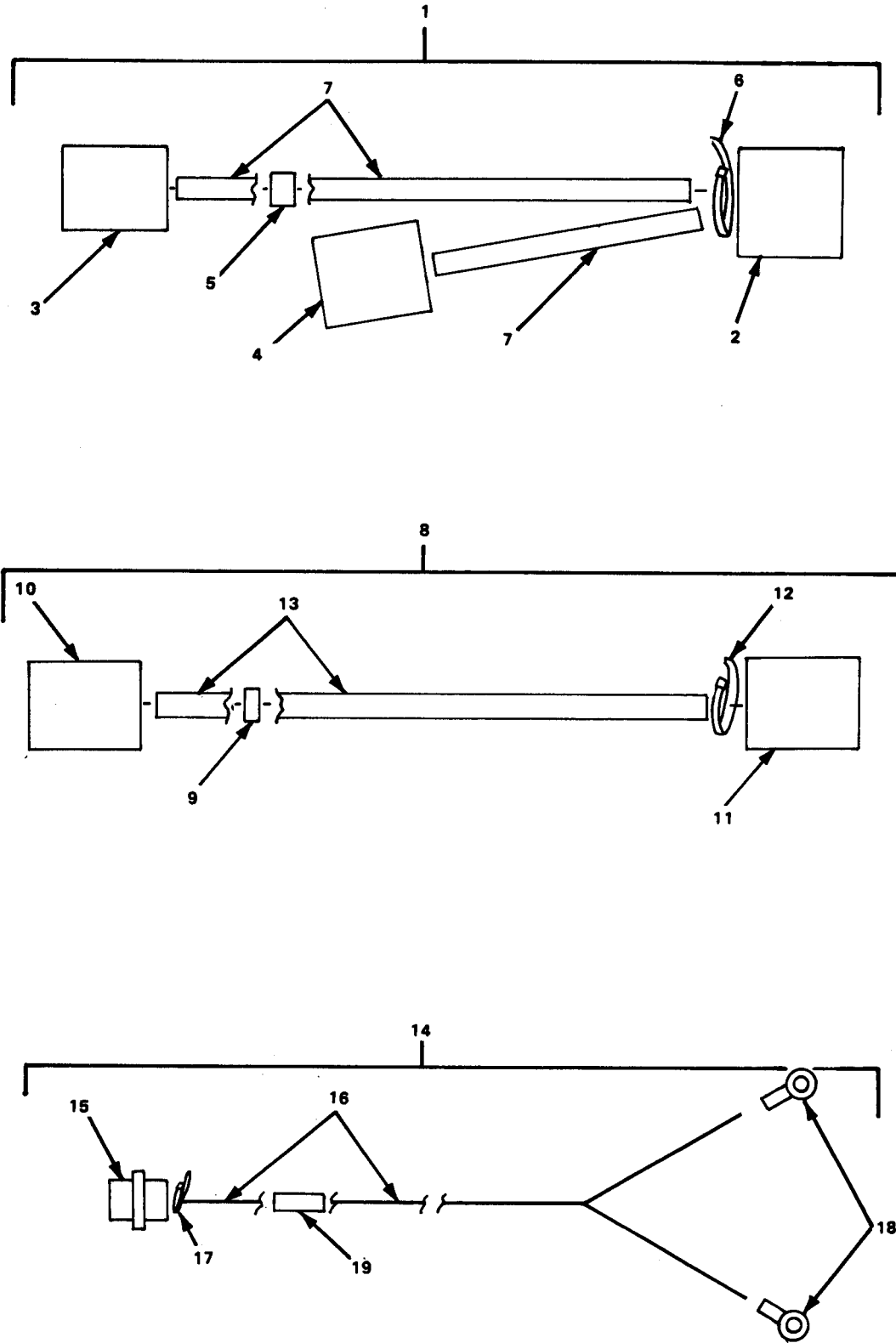


Figure F-12. Wiring Harnesses



ILLUSTRATION		SMR CODE				USMC		(4)	DESCRIPTION	USABLE ON CODE	(6) //M	(7) ITY NC N INIT	(8) USMC ITY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SSI	f. REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE				
12	1	HFFFF							WIRING HARNESS, SP RELAY ASSY TO REMOTE FUNCTIONS BOX ASSY 13228E1911 97403 MANUFACTURE FROM:	ECT	EA	1	
12	2	PAFZZ						5935-00-548-1529	CONNECTOR, PLUG MS3456W24-28P 96906	ECT	EA	1	
12	3	PAFZZ						5935-01-147-5902	CONNECTOR, PLUG MS3456W22-19P 96906	ECT	EA	1	
12	4	PAFZZ						5935-00-622-2924	CONNECTOR, PLUG MS3456W148-6P 96906	ECT	EA	1	
12	5	PAFZZ						5975-00-944-1499	STRAP, CABLE MS3368-1-9A 96906	ECT	HD	1	
12	6	PAFZZ						5975-00-111-3208	STRAP, TIEDOWN MS3367-5-9 96906	ECT	HD	V	
12	7	PAFZZ						6145-00-578-6605	WIRE, ELECTRICAL, MS086/2-16-9 81349	ECT	FT	V	
12	8	HFFFF							WIRING HARNESS REMOTE FUNCTIONS BOX ASSY TO CONNECTOR PANEL 13228E1910 97403 MANUFACTURE FROM:	ECT	EA	1	
12	9	PAFZZ						5975-00-944-1499	STRAP, CABLE MS3368-1-9A 96906	ECT	HD	1	
12	10	PAFZZ						5935-00-622-2929	CONNECTOR, PLUG MS3456W24-28P 96906	ECT	EA	1	
12	11	PAFZZ							CONNECTOR, ELEC D38999/24FH21S 81349	ECT	EA	1	
12	12	PAFZZ						5975-00-111-3208	STRAP, TIEDOWN MS3367-5-9 96906	ECT	HD	V	
12	13	PAFZZ						6145-00-578-6605	WIRE, ELECTRICAL, MS086/2-16-9 81349	ECT	FT	V	
12	14	HFFFF							WIRING HARNESS, SS2P TO CONVENIENCE RCPT 13228 E1913 97403	ECT	EA	1	

TM5-6115-634-14&P  
 NAVFAC P-8-647-14&P  
 TO-35C2-3-445-14  
 TM-6115-14&P/1

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION  REF NUMBER & MFR CODE	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SSI	f. REPL FACTOR						
12	15	PAFZZ						MANUFACTURE FROM: CONNECTOR, PLUG 13228E1948 97403	ECT	EA	1		
12	16	PAFZZ					6145-00-578-6605	WIRE ,ELECTRICAL, MS086/2-16-9 81349	ECT	FT	V		
12	17	PAFZZ					5975-00-111-3208	STRAP, TIEDOWN MS3367-5-9 96906	ECT	HD	V		
12	18	PAFZZ					5940-01-013-8287	TERMI NAL ,LUG, MS25036-133 96906	ECT	EA	2		
12	19	PAFZZ					5975-00-944-1499	STRAP, CABLE MS3368-1-9A 96906	ECT	HD	1		

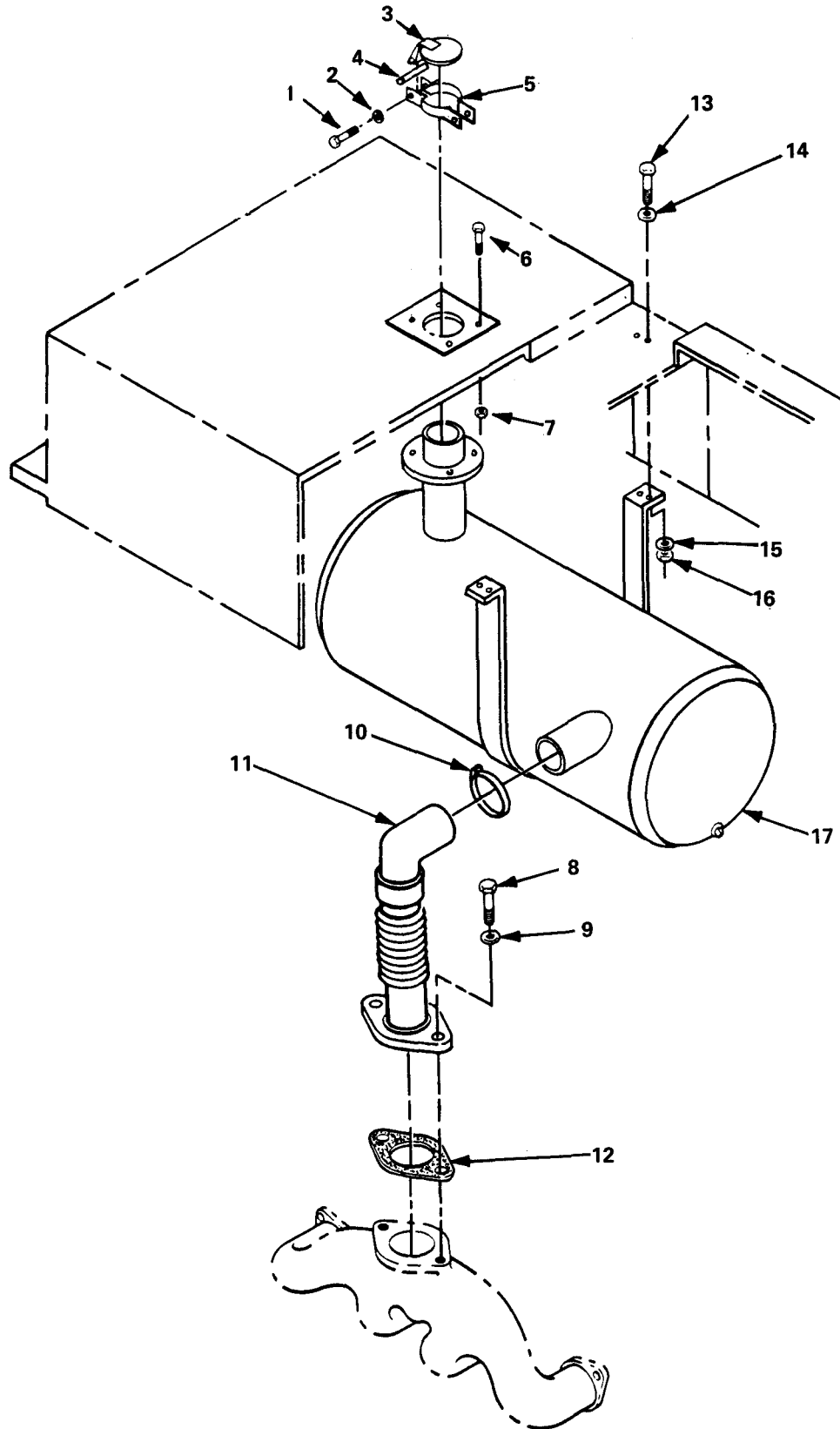


Figure F-13. Silencer and Exhaust System

(1) ILLUSTRATION		(2) SMR CODE						(3) USMC	(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE						
13	1	PA0ZZ						5305-00-068-0500	SCREW,CAP ,HEXAGON MS90725-3 96906	ECT	HD	2			
13	2	PA0ZZ						5310-00-582-5965	WASHER,LOCK MS35338-44 96906	ECT	HD	2			
13	3	PA0ZZ						5340-01-024-9937	CAP,PROTECTIVE 72-2053 30554	ECT	EA	1			
13	4	PA0ZZ						5315-00-063-9016	PIN, SPRING NAS561CB-22 80205	ECT	EA	1			
13	5	PA0ZZ							CLAMP ASSY, EXHAUST 13228E3365 97403	ECT	EA	1			
13	6	PA0ZZ						5305-00-984-6198	SCREW,MACHINE MS35206-250 96906	ECT	HD	4			
13	7	PA0ZZ						5310-00-052-3632	NUT&CAPTIVE WASHER 511-081800-00 78189	ECT	HD	4			
13	8	PA0ZZ						5305-00-071-1787	SCREW,CAP,HEX MS90725-86 96906	ECT	EA	2			
13	9	PA0ZZ						5310-00-209-0965	WASHER,LOCK MS35338-47 96906	ECT	HD	2			
13	10	PA0ZZ						5340-00-626-9402	CLAMP , LOOP U250 01652	ECT	EA	1			
13	11	XB0ZZ							TUBE ASSY, FLEXIBLE DP-1306-2 55996	ECT	EA	1			
13	12	PA0ZZ						5330-00-630-3559	GASKET 72-2057 30554	ECT	EA	1			
13	13	PA0ZZ						5305-00-543-2419	SCREW,CAP , HEXAGON MS90728-61 96906	ECT	EA	4			
13	14	PA0ZZ						5310-00-080-6004	WASHER,FLAT MS27183-14 96906	ECT	HD	4			
13	15	PA0ZZ						5310-00-637-9541	WASHER,LOCK MS35338-46 96906	ECT	HD	4			
13	16	PA0ZZ						5310-00-732-0558	NUT, PLAIN HEXAGON MS31967-8 96906	ECT	HD	4			
13	17	XB0ZZ							SILENCER, EXHAUST A-22-960-XI 97403	ECT	EA	1			

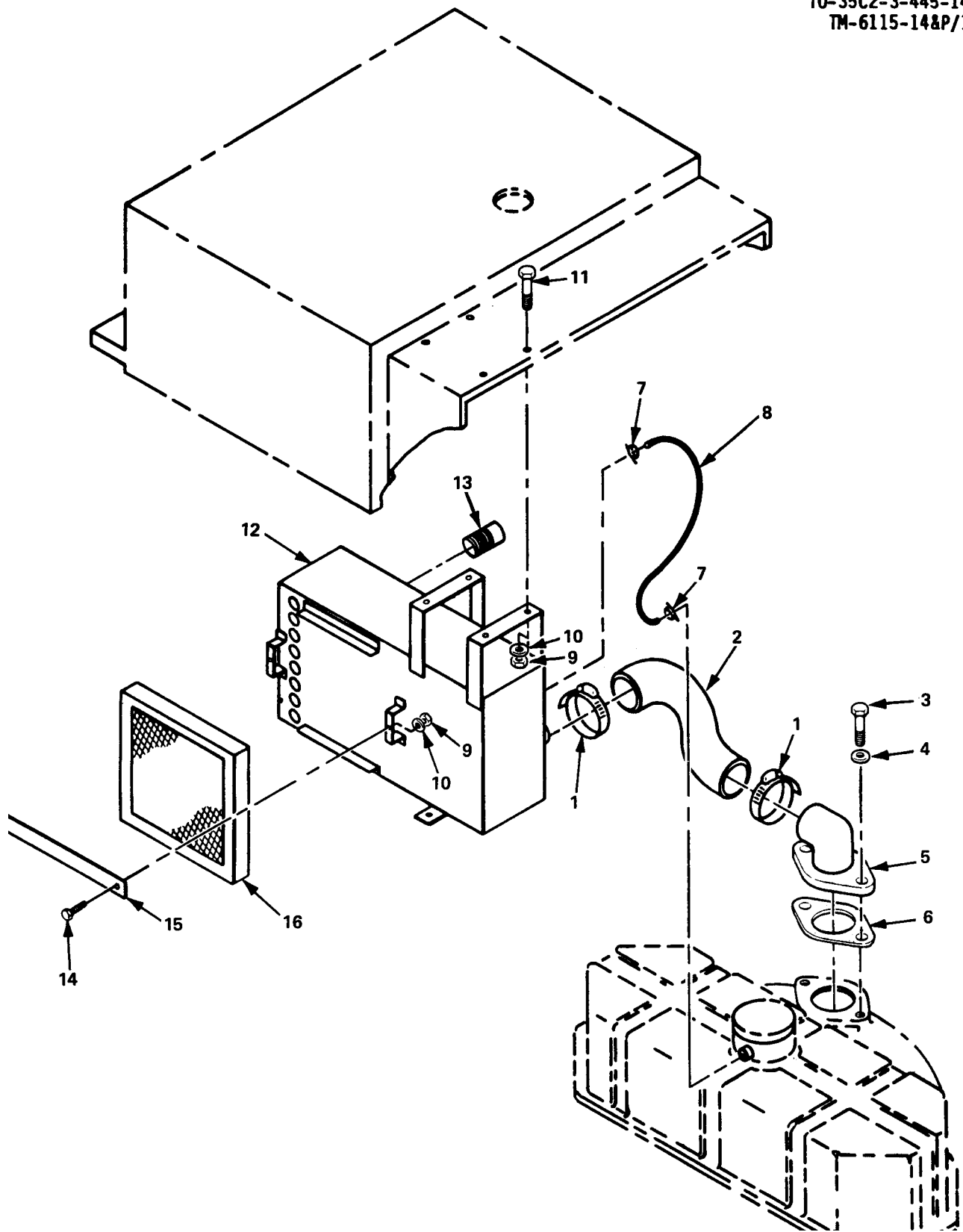


Figure F-14. Air Cleaner System

(1) ILLUSTRATION		(2) SNR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE					
14	1	PA0ZZ						4730-00-909-8627	CLAMP,HOSE MS35842-13	96906	ECT	EA	2	
14	2	PA0ZZ							HOSE, NON-METALLIC, 13228E1885	97403	ECT	EA	1	
14	3	PA0ZZ						5305-00-071-1787	SCREW,CAP,HEX MS90725-86	96906	ECT	EA	2	
14	4	PA0ZZ						5310-00-209-0965	WASHER,LOCK MS35338-47	96906	ECT	HD	2	
14	5	XBOZZ							ADAPTER,AIR INLET 13228E1917	97403	ECT	EA	1	
14	6	PA0ZZ						5330-00-231-6633	GASKET,AIR INLET 40819	97403	ECT	EA	1	
14	7	PA0ZZ						4730-00-541-6584	CLAMP,SPRING,HOSE MS39326-17	96906	ECT	EA	2	
14	8	PA0ZZ						4720-00-625-2202	HOSE , PREFORMED 72-2050-2	30554	ECT	EA	1	
14	9	PA0ZZ						5310-00-761-6882	NUT, HEXAGON MS51967-2	96906	ECT	HD	6	
14	10	PA0ZZ						5310-00-582-5965	WASHER,LOCK MS35338-44	96906	ECT	HD	6	
14	11	PA0ZZ						5305-00-225-3843	SCREW,CAP,HEXAGON MS90728-8	96906	ECT	HD	4	
14	12	XBFZZ							HOUSING, AIR FILTER 13228E1894	97403	ECT	EA	1	
14	13	PA0ZZ						5930-00-430-3532	SWITCH,PRESSURE 70-1310	30554	ECT	EA	1	
14	14	PA0ZZ						5305-00-071-2510	SCREW,CAP,HEX MS90728-13	96906	ECT	EA	2	
14	15	XBOZZ							RETAINER,AIR FILTER 13228E1883	97403	ECT	EA	1	
14	16	PA0ZZ						2940-00-463-1362	FILTER, ELEMENT 70-4020	30554	ECT	EA	1	

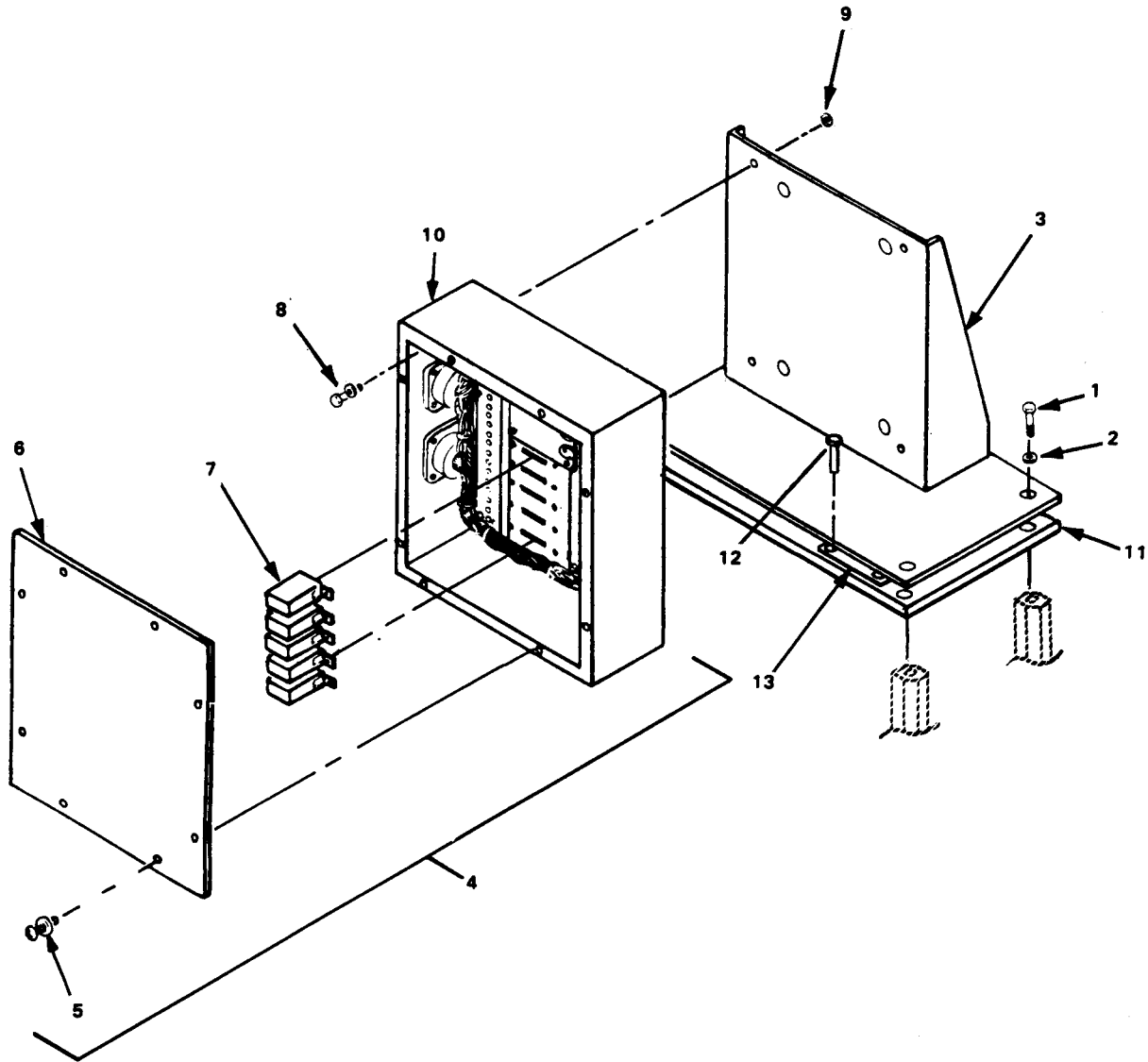


Figure F-15. Remote Functions Box Assembly

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SSI	b. REPL FACTOR						
15	1	PAFZZ						5305-00-068-0500	SCREW , CAP, HEXAGON MS90723-3 96906	ECT	HD	4	
15	2	PAOZZ						5310-00-582-5965	WASHER, LOCK MS35338-44 96906	ECT	HD	4	
15	3	XBFZZ							BRACKET, REMOTE 13228E1922 97403	ECT	EA	1	
15	4	PBFFF							BOX ,REMOTE FUNCTION 13228E1906 97403	ECT	EA		
15	5	PAFZZ						5305-00-036-6968	SCREW, ASSEMBLED WAS 13214E3290-18 30554	ECT	EA	12	
15	6	XBFZZ							COVER, ENCLOSURE 13228E1923 97403	ECT	EA	1	
15	7	PAFZZ						5945-00-435-1833	RELAY MS757/23-003 96906	ECT	EA		
15	8	PAFZZ						5305-00-191-6226	SCREW, ASSEMBLED WAS P13121-64 45722	ECT	EA		
15	9	PAFZZ						5310-00-934-9751	NUT, HEX MS35650-302 96906	ECT	HD		
15	10	XAFZZ							ENCLOSURE , 13228E1931 97403	ECT	EA	1	
15	11	XBFZZ							COVER , RE-CONNECTI ON 72-2145 30554	ECT	EA	1	
15	12	PAFZZ						5320-01-155-6120	RIVET, BLIND M24243 /18503 81349	ECT	EA	4	
15	13	XBFZZ							PLATE, CAUTION 13228E1939 97403	ECT	EA	1	



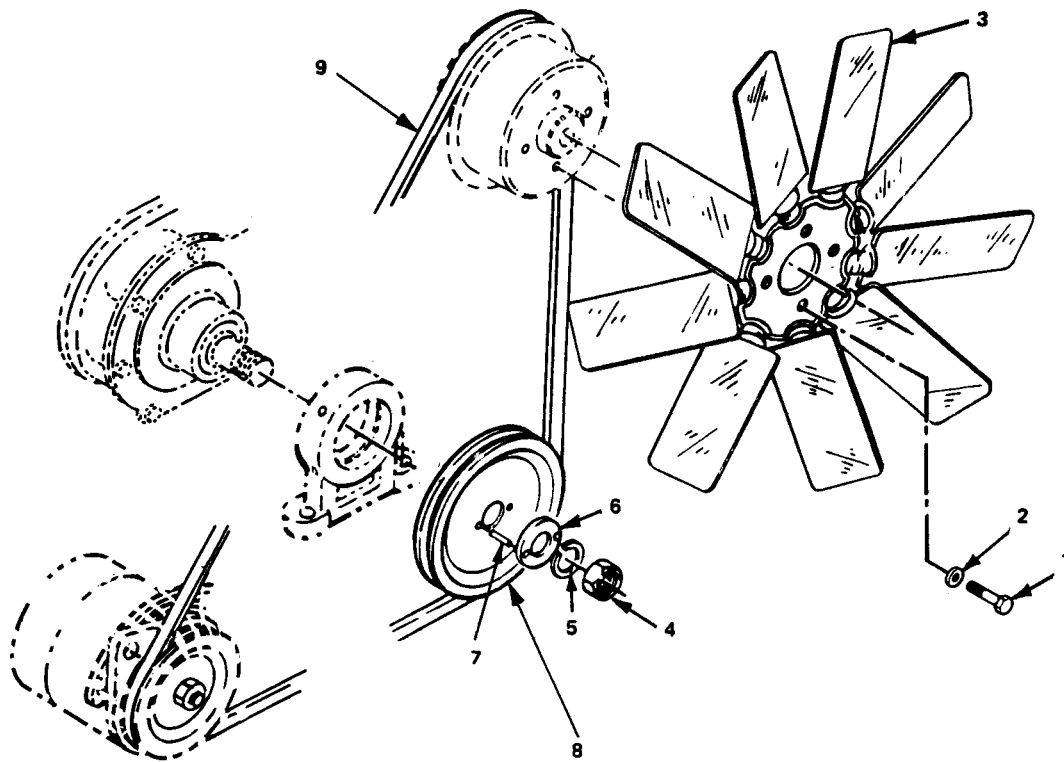


Figure F-16. Engine Belt, Fan and Pulley

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE					
16	1	PAQZZ						5306-00-226-4825	SCREW, CAP, HEXAGON MS90728-32	96906	ECT	HD	4	
16	2	PAQZZ						5310-00-407-9566	WASHER, LOCK MS35338-45	96906	ECT	HD	4	
16	3	PBQZZ							FAN, ENGINE 13228E1887	97403	ECT	EA	1	
16	4	PAQZZ						5310-00-420-6064	NUT, PLAIN, HEXAGON 202568A	28265	ECT	EA	1	
16	5	PAQZZ						5310-00-400-3495	WASHER, LOCK 1569A	28265	ECT	EA	1	
16	6	PAQZZ						5365-00-015-6800	WASHER, PULLEY 287269A	28265	ECT	EA	1	
16	7	PAQZZ						5315-00-844-3662	PIN, SPRING MS16562-62	96906	ECT	HD	2	
16	8	IBFZZ							PULLEY, CRANKSHAFT 13228E1893	97403	ECT	EA	1	
16	9	PAQZZ						3030-00-517-4586	BELT, V, ENGINE MS51066-57	96906	ECT	EA	1	

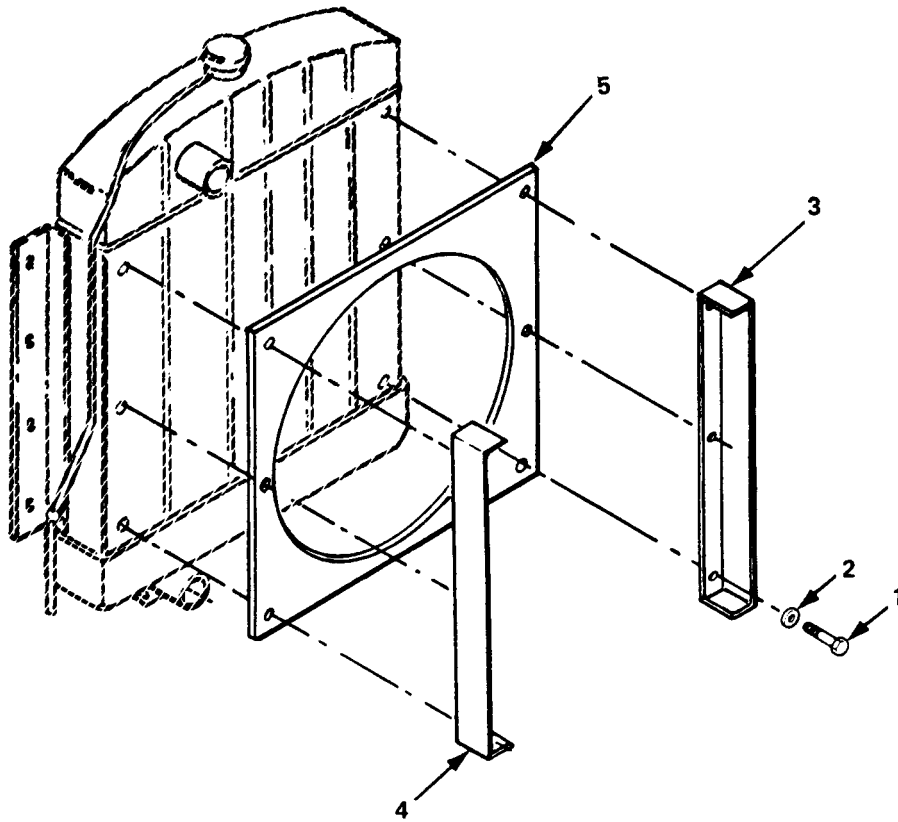


Figure F-17. Fan Guard, Left and Right

TM5-6115-634-14&P  
 NAVFAC P-8-647-14&P  
 TO-35C2-3-445-14  
 TM-6115-14&P/1

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR						
17	1	PAQZZ						5305-00-068-0500	SCREW,CAP, HEXAGON MS90725-3 96906	ECT	HD	6	
17	2	PAQZZ						5310-00-582-5965	WASHER, LOCK MS35338-44 96906	ECT	HD	6	
17	3	XBOZZ							GUARD, FAN, RIGHT 13228E1891 97403	ECT	EA	1	
17	4	XBOZZ							GUARD, FAN, LEFT 13228E1892 97403	ECT	EA	1	
17	5	XBOFZ							PLATE, FAN 13228E1918 97403	ECT	EA	1	

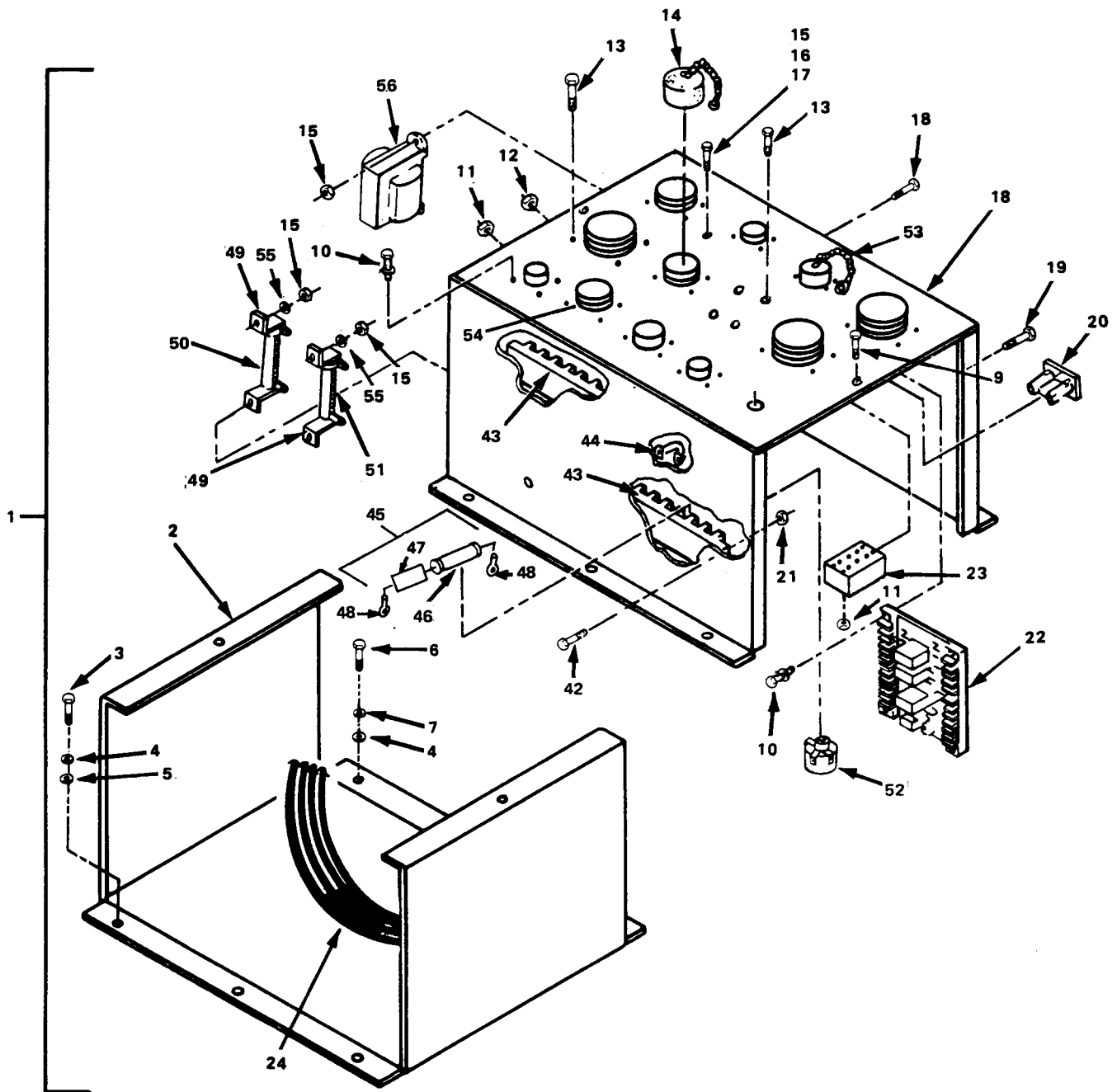
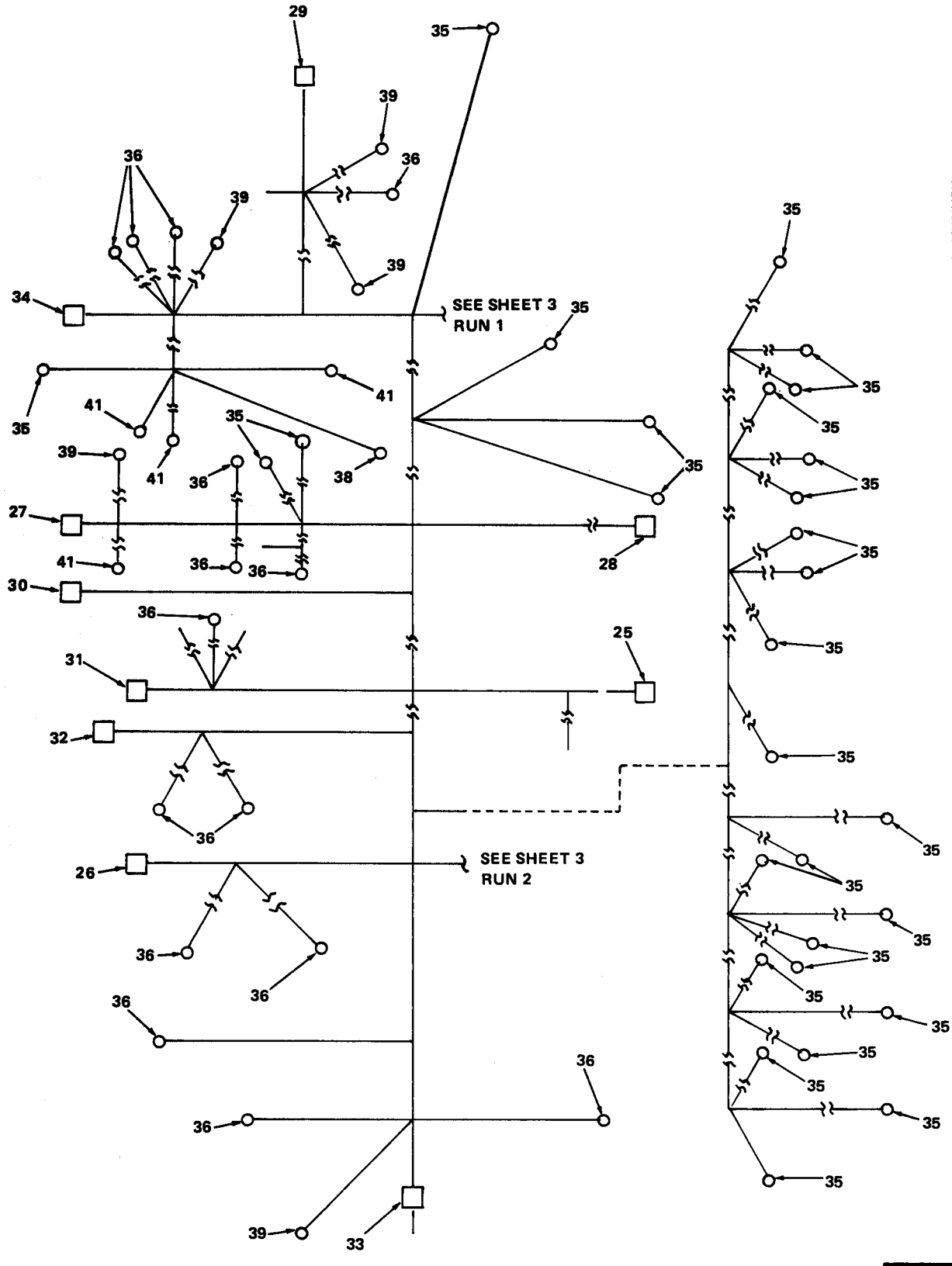


Figure F-18. Special Relay Assembly (Sheet 1 of 3)



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Figure F-18. Special Relay Assembly (Sheet 2 of 3)

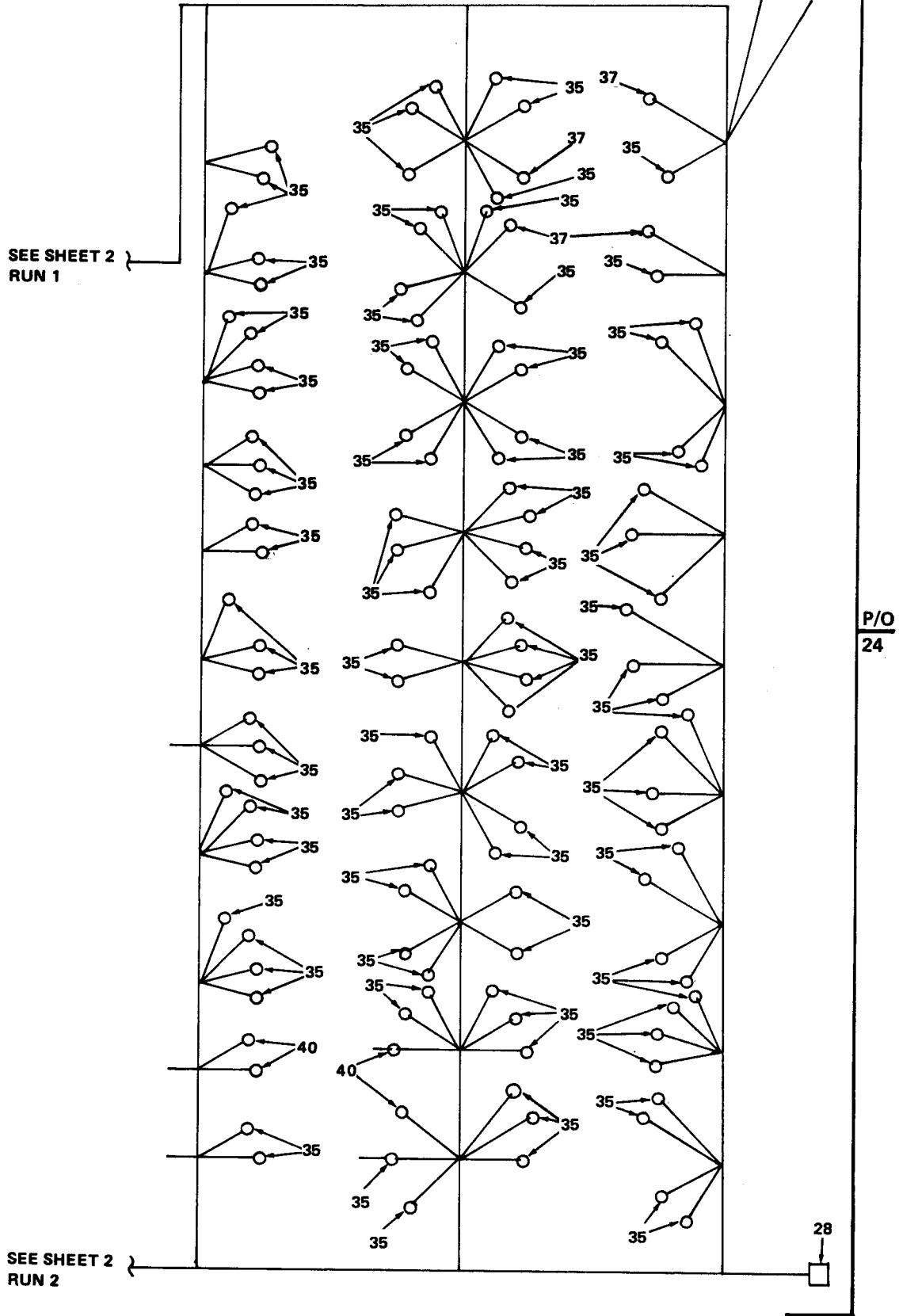


Figure F-18. Special Relay Assembly (Sheet 3 of 3)

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. IG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SSI	b. REPL FACTOR	REF NUMBER & MFR CODE						
18	1	PBFHH						RELAY ASSY, SPECIAL 13228E1904	97403	ECT	EA	1		
18	2	XANZZ						CHASSIS 72-2235	30554	ECT	EA	1		
18	3	PAFZZ					5305-00-068-0502	SCREW,CAP,HEXAGON MS90725-6	96906	ECT	HD	3		
18	4	PAFZZ					5310-00-067-6357	WASHER,LOCK MS45904-69	96906	ECT	HD	6		
18	5	PAFZZ					5310-00-809-4058	WASHER,FLAT MS27183-10	96906	ECT	HD	6		
18	6	PAFZZ					5305-00-068-0500	SCREW,CAP,HEXAGON MS90725-3	96906	ECT	HD	3		
18	7	PAOZZ					5310-00-582-5965	WASHER,LOCK MS35338-44	96906	ECT	HD	6		
18	8	XBFZZ						COVER, SPECIAL RELAY 13228E1905	97403	ECT	EA	1		
18	9	PAHZZ					5305-00-191-6226	SCREW,ASSEMBLED WAS P15121-64	45722	ECT	EA	2		
18	10	PAHZZ					5305-00-038-3089	SCREW & WASHER ASSY P15121-3	45722	ECT	EA	32		
18	11	PAHZZ					5310-00-934-9739	NUT, PLAIN, HEXAGON MS35649-242	96906	ECT	HD	32		
18	12	PAHZZ					5310-00-934-9747	NUT, PLAIN, HEXAGON MS35649-262	96906	ECT	HD	24		
18	13	PAHZZ					5305-00-036-6968	SCREW,ASSEMBLED WAS 13214E3290-18	30554	ECT	EA	24		
18	14	PAHZZ					5935-01-176-1708	COVER, CONN. RCPT MS25043-22DA	96906	ECT	EA	1		
18	15	PAHZZ					5310-00-052-3632	NUT&CAPTIVE WASHER 511-081800-00	78189	ECT	HD	10		
18	16	PAHZZ					5310-00-809-8544	WASHER, FLAT MS27183-7	96906	ECT	HD	2		



(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4)	DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN INIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTO	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE				
18	17	PAHZZ						5305-00-984-6193	SCREW, MACH, PAN HD MS35206-249 96906	ECT	HD	2	
18	18	PAHZZ						5305-00-068-0500	SCREW, MACHINE MS35206-243 96906	ECT	HD	4	
18	19	PAHZZ						5305-00-984-6194	SCREW, MACH, PAN HD MS35206-246 96906	ECT	HD	2	
18	20	PAHZZ						6625-00-892-4342	SHUNT INSTRMNT(R13) MSA200 03776	ECT	EA	1	
18	21	PAHZZ						5310-00-063-7360	NUT, PLAIN, ASSEMBLED 511-061800-00 78189	ECT	EA	8	
18	22	PAHZZ						6110-00-201-6015	DC RELAY ASSY 69-768 93742	ECT	EA	1	
18	23	PAHZZ						5945-00-855-7478	RELAY MS24166-01 96906	ECT	EA	1	
18	24	MDHMH							WIRING HARNESS, 1322 BE3374 97403	ECT	EA	1	
18	25	PAHZZ						5925-01-154-6265	CONNECTOR, ELEC MS3452W20-278 96906	ECT	EA	1	
18	26	PAHZZ						1935-01-197-2625	CONNECTOR, ELEC MS3452W36-78 96906	ECT	EA	1	
18	27	PAHZZ						1935-01-071-0331	CONNECTOR, ELEC MS3452W18-118 96906	ECT	EA	1	
18	28	PAHZZ						1935-01-223-1563	CONNECTOR, ELEC MS3452W148-68 96906	ECT	EA	2	
18	29	PAHZZ						1935-01-226-8365	CONNECTOR, ELEC MS3452W32-7P 96906	ECT	EA	2	
18	30	PAHZZ						935-01-211-4440	CONNECTOR, ELEC MS3452W20-298 96906	ECT	EA	2	
18	31	PAHZZ						935-01-199-4442	CONNECTOR, ELEC MS3452W22-198 96906	ECT	EA	2	
18	32	PAHZZ						935-01-229-0140	CONNECTOR, ELEC MS3452W24-288 96906	ECT	EA	2	

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & NFR CODE					
18	33	PAHZZ						5935-01-202-6206	CONNECTOR,ELEC MS3452W28-12S 96906	ECT	EA	2		
18	34	PAHZZ						5935-01-196-1094	CONNECTOR,ELEC MS3452W36-7P 96906	ECT	EA	2		
18	35	PAHZZ						5940-00-204-8966	TERMINAL LUG, MS25036-102 96906	ECT	EA	143		
18	36	PAHZZ						5940-00-557-1629	TERMINAL LUG, MS25036-149 96906	ECT	EA	15		
18	37	PAHZZ						5940-00-283-5280	TERMINAL LUG, MS25036-106 96906	ECT	EA	4		
18	38	PAHZZ						5940-00-143-4794	TERMINAL LUG, MS25036-112 96906	ECT	EA	2		
18	39	PAHZZ						5940-00-143-4775	TERMINAL LUG , MS25036-156 96906	ECT	HD	5		
18	40	PAHZZ						5940-00-825-5041	TERMINAL LUG, MS17143-6 96906	ECT	PS	4		
18	41	PAHZZ						5940-00-143-4777	TERMINAL LUG, MS25036-157 96906	ECT	EA	4		
18	42	PAHZZ						5305-00-889-3001	SCREW,MACHINE MS35206-231 96906	ECT	HD	4		
18	43	PAHZZ						5940-00-983-6096	TERMINAL BOARD 38TB20 81349	ECT	EA	2		
18	44	PAHZZ						6150-00-519-2714	JUMPER, TERMINAL BRD 601J 83330	ECT	EA	6		
18	45	AHHZZ							DIODE ASSEMBLY 13228E1920 97403	ECT	EA	1		
18	46	PAHZZ						5961-00-165-2903	SEMICONDUCTOR 1N5619 14099	ECT	EA	1		
18	47	PAHZZ							INSULATION SLEEV ING TYPE F, FORM U 81349	ECT	FT	1		
18	48	PAHZZ						5940-00-204-8966	TERMINAL LUG, MS25036-102 96906	ECT	EA	2		

(1) ILLUS- TRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION	(8)	(6)	(7)	(8)
a	b	a	b	c	d	a	b	NATIONAL STOCK NUMBER	FIEF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
FIG NO.	ITEM NO.	ARMY	AIR FORCE	NAVY	USMC	SS1	REPL FACTOR						
18	49	PAHZZ						5905-00-860-6276	BRACKET ASSEMBLY MS75009-33 96906	ECT	EA	2	
18	50	PAHZZ						5905-00-642-1955	RESISTOR, FIXED RW33V100 81349	ECT	EA	1	
18	51	PAHZZ						5905-00-843-2809	RESISTER FIXED RW33V150 81349	ECT	EA	1	
18	52	PAHZZ						5905-01-021-9133	RESISTOR, VARIABLE RP0025-21206BA 30554	ECT	EA	1	
18	53	PAHZZ						5935-01-175-8419	COVER, CONN MS25043-18DA 96906	ECT	EA	1	
18	54	PAHZZ						5935-01-005-9925	PLUG, CHAIN ASSY 72-2241 30554	ECT	EA	1	
18	55	PAHZZ						5310-00-082-1404	WASHER, FLAT MS27183-6 96906	ECT	HD	1	
18	56	PAHZZ						5950-00-601-6296	TRANSFORMER, CURRENT 72-2204 30554	ECT	EA	1	

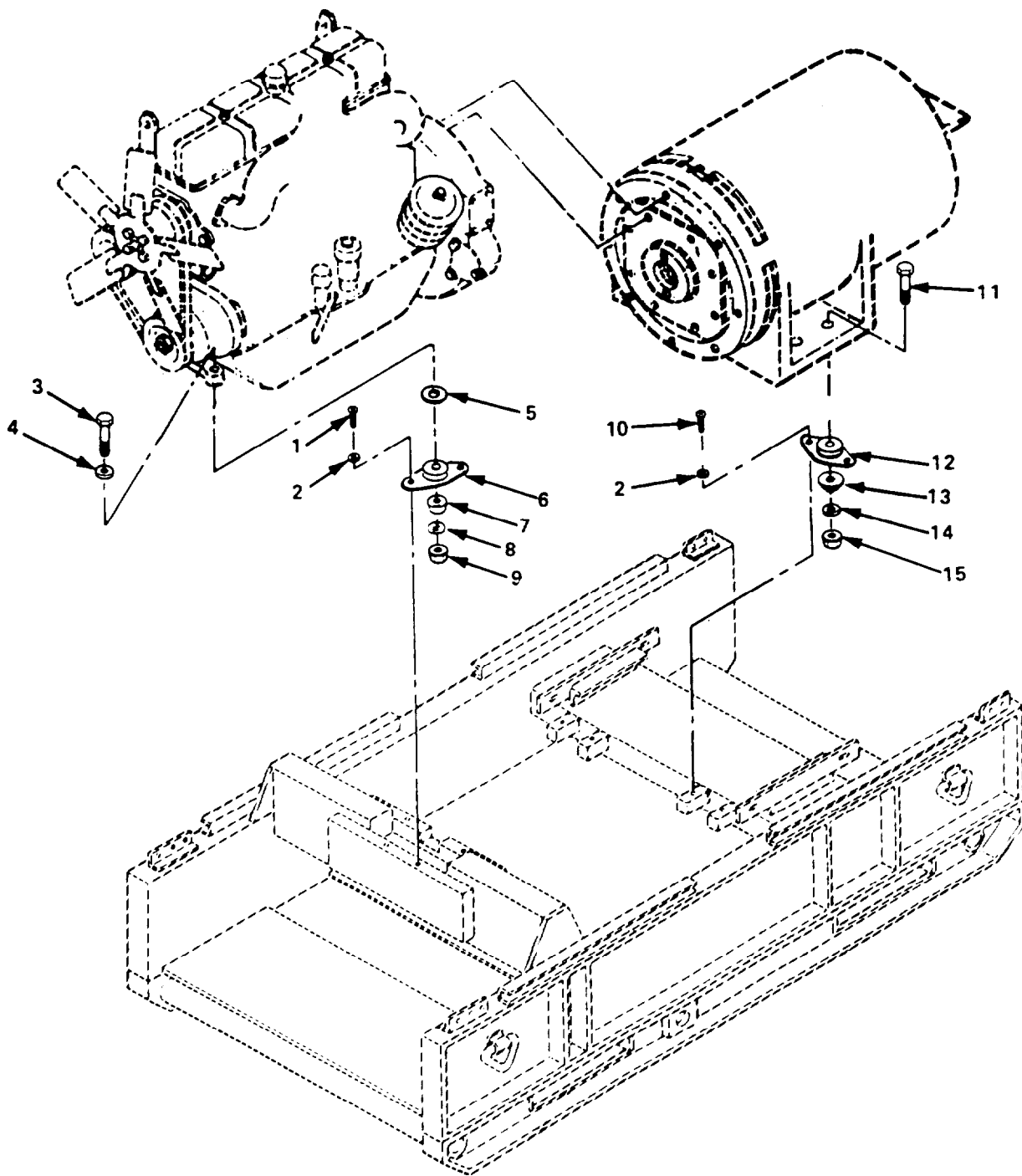


Figure F-19. Isolators, Front and Rear

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION		(6)	(7)	(8)
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	J/M	ITY INC N INI	USMC QTY PER EQUIP
19	1	PAHZ Z						5305-00-942-2196	SCREW,CAP, HEXAGON MS90725-60 96906	ECT	HD	4	
19	2	PAQZZ						5310-00-637-9541	WASHER,LOCK MS35338-46 96906	ECT	HD	8	
19	3	PBHZZ						5305-00-071-2078	SCREW,CAP,HEX MS90728-122 96906	ECT	EA	2	
19	4	PAFZZ						5310-00-384-5272	WASHER,LOCK MS35338-48 96906	ECT	HD	2	
19	5	PAFZZ						5310-00-809-5998	WASHER,FLAT MS27183-18 96906	ECT	HD	2	
19	6	YBHZZ							ISOLATOR,FRONT 508-4MS 81860	ECT	EA	2	
19	7	PBHZZ							WASHER, SNUBBING, 13228E3392-1 97403	ECT	EA	2	
19	8	PBHZZ							BUSHING,FRONT 13228E1930 97403	ECT	EA	2	
19	9	PAFZZ						5310-01-070-2105	NUT,PLAIN,HEXAGON MS51967-14 96906	ECT	EA	2	
19	10	PBHZZ						5305-00-782-9489	SCREW,CAP,HEX MS90728-66 96906	ECT	HD	4	
19	11	PBHZZ						5305-00-724-6760	SCREW,CAP,HEX MS90725-174 96906	ECT	EA	2	
19	12	PBHZZ							ISOLATOR,REAR 510-2MS 81860	ECT	EA	2	
19	13	PBHZZ							WASHER, SNUBBING, 13228E3392-2 97403	ECT	EA	2	
19	14	PAHZ Z						5310-00-820-6653	WASHER,LOCK MS35338-50 96906	ECT	HD	2	
19	15	PAHZ Z						5310-00-004-5038	NUT,HEX MS51967-20 96906	ECT	HD	2	

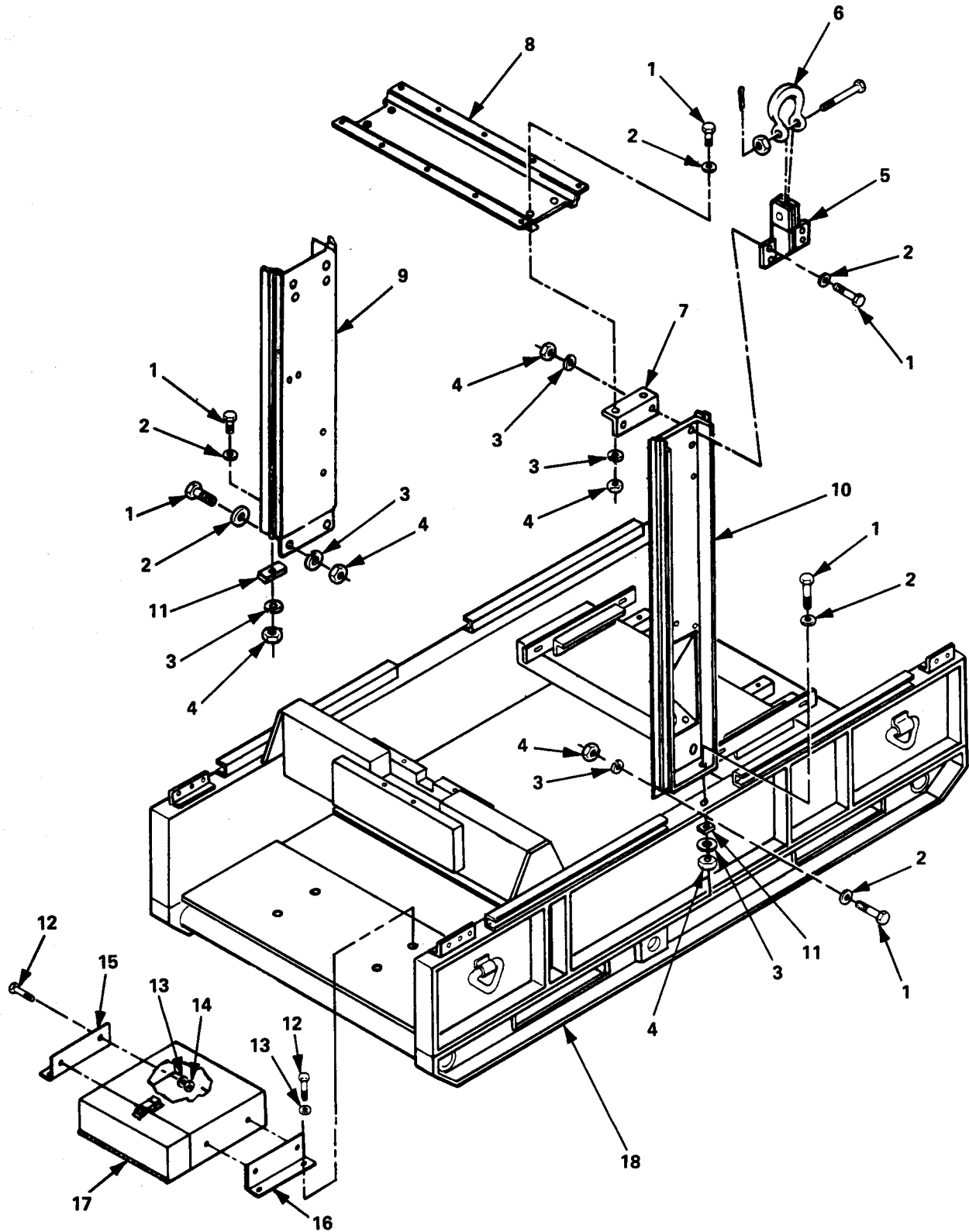


Figure F-20. Document Box, Lifting Frame and Skid Base

(1) ILLUSTRATION		(2) SMR CODE					(3) USMC		(4)	(5) DESCRIPTION		(6)	(7)	(8)
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SBI	f. EPL ACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	J/M	ITY NC M INIT	USMC QTY PER EQUIP	
20	1	PAFZZ						5305-00-071-2069	SCREW ,CAP , HEX MS90728-113 96906	ECT	HD	20		
20	2	PAFZZ						5310-00-584-5272	WASHER ,LOCK MS35338-48 96906	ECT	HD	20		
20	3	PAFZZ						5310-00-809-5998	WASHER,FLAT MS27183-18 96906	ECT	HD	20		
20	4	PAFZZ						5310-01-070-2105	NUT, PLAIN, HEXAGON MS51967-14 96906	ECT	EA	20		
20	5	XBFZZ							BRACKET ,CLEVIS, 72-2014 30554	ECT	EA	2		
20	6	XBFZZ						4910-01-246-0923	CLEVIS XBNB190 90202	ECT	EA	2		
20	7	XBFZZ							BRACKET ,ANGLE , 72-2012 30554	ECT	EA	2		
20	8	XBFZZ							SUPPORT , CENTER , 13228E1890 97403	ECT	EA	1		
20	9	XBFZZ							SUPPORT ,RIGHT, 13228E 1889 97403	ECT	EA	1		
20	10	XBFZZ							SUPPORT, LEFT 13228E1888 97403	ECT	EA	4		
20	11	PAFZZ						5310-00-399-0995	WASHER, BEVELED 3805 05748	ECT	EA	4		
20	12	PAQZZ						5306-00-226-4825	SCREW ,CAP, HEXAGON MS90728-32 96906	ECT	HD	8		
20	13	PAQZZ						5310-00-407-9566	WASHER ,LOCK MS35338-45 96906	ECT	HD	8		
20	14	PAQZZ						5310-00-880-7744	NUT , HEXAGON MS51967-5 96906	ECT	HD	4		
20	15	IBOZZ							BRACKET , DOCUMENT , 13228E3367-2 97403	ECT	EA	1		
20	16	IBOZZ							BRACKET , DOCUMENT , 13228E3367-1 97403	ECT	EA	1		

TM5-6115-634-14&P  
 NAVFAC P-8-647-14&P  
 TO-35C2-3-445-14  
 TM-6115-14&P/1

(1) ILLUSTRATION		(2) SNR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	(8)	
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
20	17	XBQZZ							BOX , DOCUMENT, 13228E3364 97403	ECT	EA	1	
20	18	XBHZZ							SKID BASE 13228E1899 97403	ECT	EA	1	



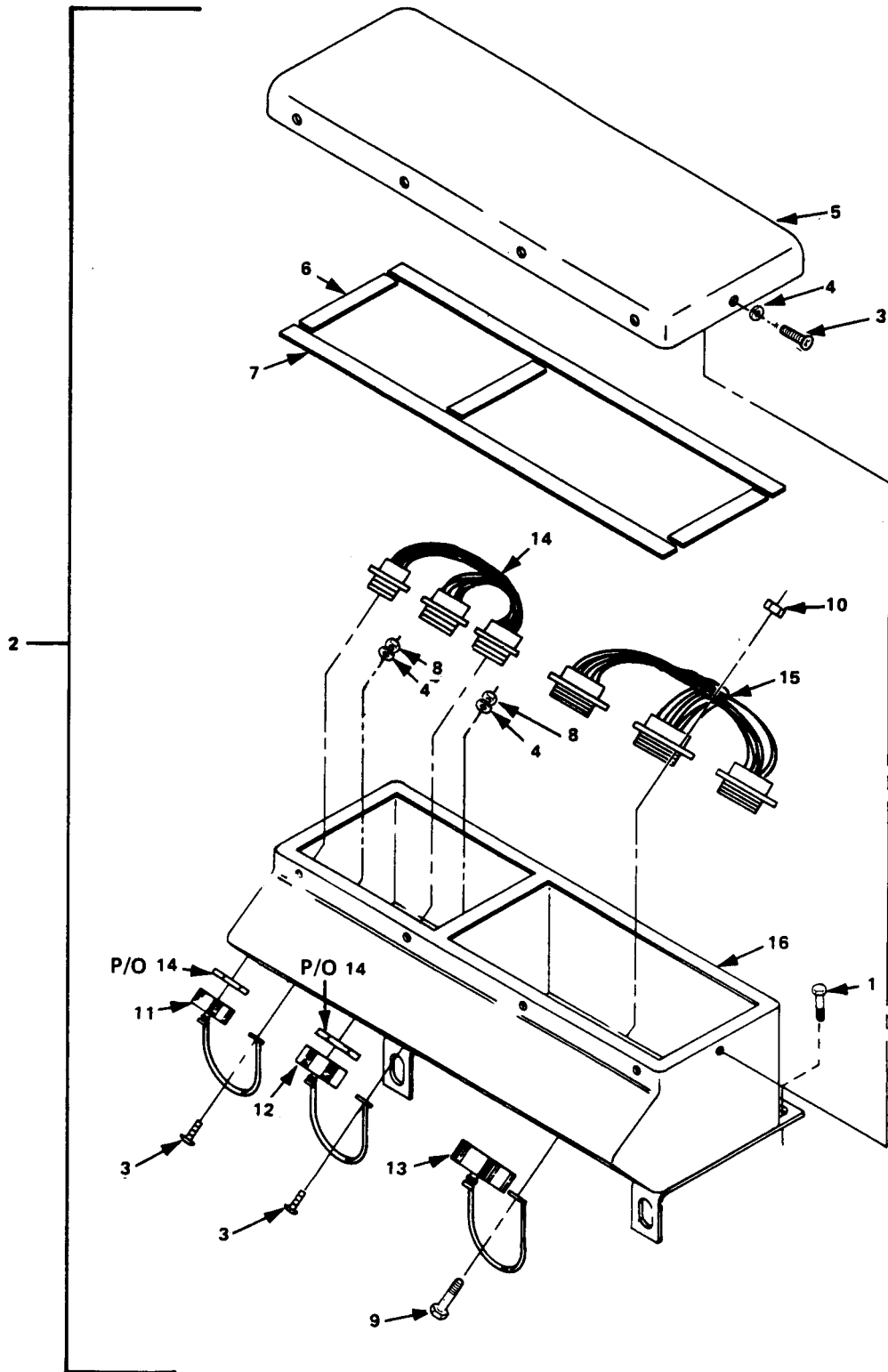


Figure F-21. Junction Box Assembly

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR	REF NUMBER & MFR CODE					
21	1	PAFZZ						5305-00-225-9081	SCREW ,CAP HEX MS90725-36 96906	ECT	HD	2	
21	2	XBQHH							JUNCTION BOX ASSY 13228E1872 97403	ECT	EA	1	
21	3	PAHZZ						5305-00-984-6193	SCREW, MACHINE MS35206-245 96906	ECT	HD	18	
21	4	PAHZZ						5310-00-045-3299	WASHER, LOCK MS35338-42 96906	ECT	HD	18	
21	5	XBHZZ							COVER, ENCLOSURE 13228E1936 97403	ECT	EA	1	
21	6	PAHZZ							GASKET 13228E1938 97403	ECT	EA	3	
21	7	PAHZZ							GASKET 13228E1938 97403	ECT	EA	2	
21	8	PAHZZ						5310-00-934-9757	NUT, PLAIN ,HEXAGON MS35649-282 96906	ECT	HD	2	
21	9	PAHZZ						5305-01-006-2052	SCREW, MACHINE MS31849-65 96906	ECT	EA	12	
21	10	PAHZZ						5310-00-877-5797	NUT, SELF-LOCKING MS21044N3 96906	ECT	HD	12	
21	11	PAHZZ							COVER , ELEC CONN D38999/21F639S 81349	ECT	EA	1	
21	12	PAHZZ							COVER,ELEC CONN D38999/23FH21P 81349	ECT	EA	2	
21	13	PAHZZ							COVER, ELEC CONN MS17349N36B 96906	ECT	EA	3	
21	14	MDHMM							WIRING HARNESS, CONTROL 13228 E1933 97403	ECT	EA	1	
21	14A	PAHZZ							STRAP, CABLE, ADJUSTABLE MS3368-1-9 96906	ECT	EA	1	
21	14B	PAHZZ							STRAP, CABLE MS3367-5-9 96906	ECT	EA	AR	
21	14C	MDHZZ							WIRE, ELECTRICAL MS5086/2-20-9 81349	ECT	EA	AR	
21	14D	PAHZZ							CONNECTOR, ELECTRICAL D38999/24FH21P 81349	ECT	EA	2	
21	14E	PAHZZ							CONNECTOR, ELECTRICAL D38999/247C39S 83149	ECT	EA	1	

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6) USABLE QM CODE	(7) QTY INC IN UMI	(8) USMC QTY PER EQUI
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SBI	f. REPL FACTO	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE		J/M	
21	15	MDHZZ							WIRING HARNESS,PWR 13228E1934 97403	ECT	EA	1
21	15A	PAHZZ							INSULATION M23053/5-108-0 81349	ECT	EA	AR
	15B	PAHZZ							CONNECTOR, ELECTRICAL MS17346R36N77S 96906	ECT	EA	1
	15C	PAHZZ							INSULATION M23053/5-110-0 81349	ECT	EA	AR
	15D	PAOZZ						5970-01-182-7761	TAPE 130C 75037	ECT	EA	AR
	15E	MFHZZ							WIRE, ELECTRICAL M5086/2-4-9 81349	ECT	EA	AR
	15F	PAHZZ							SPLICE J-389 98410	ECT	EA	7
	15G	PAHZZ							CONNECTOR MS17346R36N77P 96906	ECT	EA	2
21	16	18HZZ							HOUSING, JUNCTION BD 13228E1935 97403	ECT	EA	1

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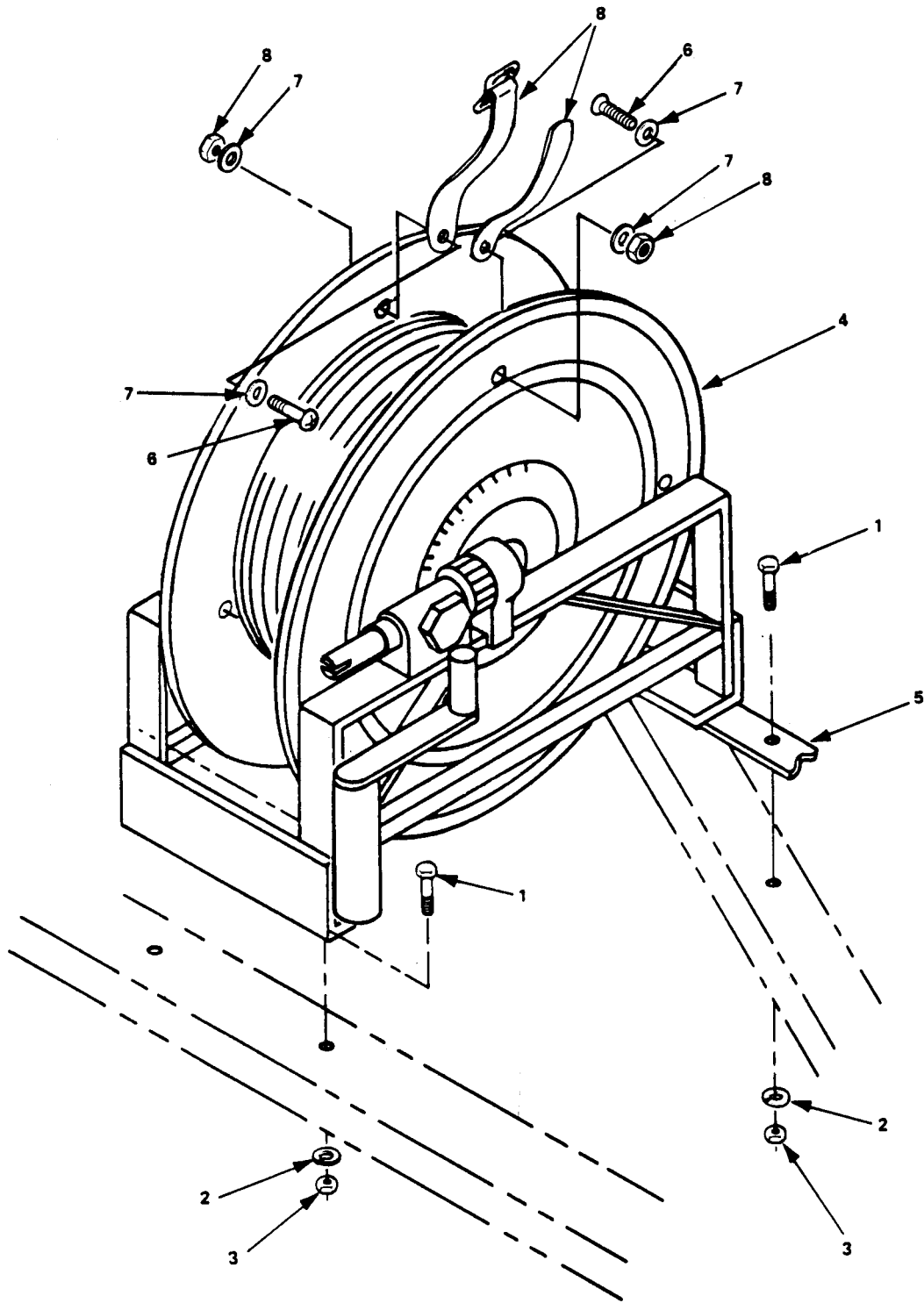


Figure F-22. Cable Reel Assembly

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE DM CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE					
22	1	PA0ZZ						5305-00-068-0511	SCREW,CAP,HEX MS90728-62	96906	ECT	HD	6	
22	2	PA0ZZ						5310-00-637-9541	WASHER,LOCK MS35338-46	96906	ECT	HD	6	
22	3	PA0ZZ						5310-00-732-0558	NUT, PLAIN HEXAGON MS51967-8	96906	ECT	HD	6	
22	4	XB0ZZ							CABLE REEL ASSEMBLY 13228E1073	97403	ECT	EA	1	
22	5	XB0ZZ							BRKT SPT,CABLE REEL 13228E3371	97403	ECT	EA	1	
22	6	PA0ZZ						5305-00-993-1851	SCREW,MACH,PAN HD MS35207-267	96906	ECT	HD	8	
22	7	PA0ZZ						5310-00-809-8546	WASHER,FLAT MS27183-8	96906	ECT	MX	16	
22	8	PA0ZZ						5310-01-012-3595	NUT, PLAIN 69-561-6	30554	ECT	EA	8	
22	9	PA0ZZ							STRAP, NYLON, 13228 E1 886-1	97403	ECT	EA	4	

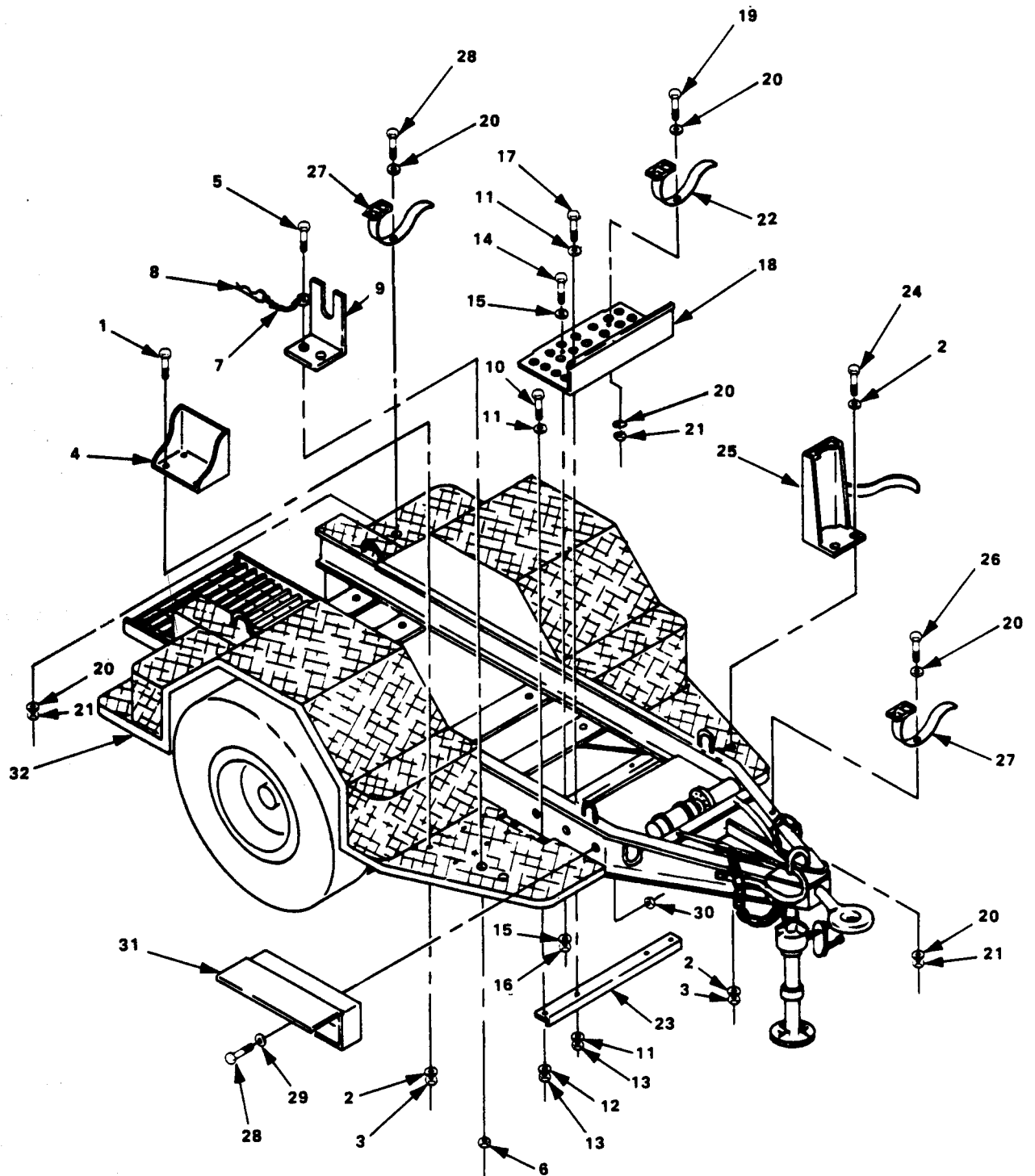


Figure F-23. Modified Trailer M200A1, Puller Bracket and Storage Pan

ILLUSTRATION		SMR CODE			USMC		EPL ACTOR	(4)	(5)	USABLE ON CODE	(6)	(7)	(8)
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SSI		NATIONAL STOCK NUMBER	DESCRIPTION REF NUMBER & MFR CODE		/M	TY NC N NIT	ISMC ITY PER EQUIP
23	1	PAQZZ					5305-00-068-0511	SCREW,CAP,HEX MS90728-62 96906	ECT	HD	8		
23	2	PAQZZ					5310-00-080-6004	WASHER,FLAT MS27183-14 96906	ECT	HD	16		
23	3	PAQZZ					5310-00-087-4652	NUT, SELF-LOCKING MS51922-17 96906	ECT	HD	4		
23	4	XBOZZ					2590-00-473-6331	BRACKET ASSEMBLY 13211 E1492-1 97403	ECT	EA	2		
23	5	PAQZZ					5305-00-989-7435	SCREW,MACH,PAN HD MS35207-264 96906	ECT	HD	2		
23	6	PAQZZ					5310-01-012-3595	NUT, PLAIN 69-561-6 30554	ECT	EA	2		
23	7	PAQZZ						CHAIN, SASH,#30 TYPE II CLASS 3 81348	ECT	EA	1		
23	8	PAQZZ						PIN, HAIR, COTTER 13228E3390 97403	ECT	EA	1		
23	9	XBOZZ						BRACKET, PULLER 13228E3387 97403	ECT	EA	1		
23	10	PAQZZ					5306-00-225-8501	BOLT, MACHINE MS90725-37 96906	ECT	EA	2		
23	11	PAQZZ					5310-00-081-4219	WASHER,FLAT MS27183-12 96906	ECT	HD	8		
23	12	PAQZZ					5310-00-407-9566	WASHER, LOCK MS35338-45 96906	ECT	HD	4		
23	13	PAQZZ					5310-00-880-7744	NUT, HEXAGON MS51967-5 96906	ECT	HD	2		
23	14	PAQZZ					5305-00-071-2070	SCREW,CAP,HEX MS90725-114 96906	ECT	HD	2		
23	15	PAQZZ					5310-00-809-5998	WASHER, FLAT MS27183-18 96906	ECT	HD	4		
23	16	PAFZZ					53 10-01-070-2105	NUT,PLAIN,HEXAGON MS51967-14 96906	ECT	EA	2		

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE					
23	17	PA0ZZ						5306-00-225-8499	SCREW, CAP, HEXAGON MS90725-34	96906	ECT	HD	2	
23	18	XB0ZZ							PAN, CABLE STORAGE 13228E3402	97403	ECT	EA	1	
23	19	PA0ZZ						5305-00-989-7434	SCREW, MACHINE MS33207-263	96906	ECT	HD	4	
23	20	PA0ZZ						5310-00-809-8546	WASHER, FLAT MS27183-8	96906	ECT	MX	11	
23	21	PA0ZZ						5310-01-012-3595	NUT, PLAIN 69-561-6	30554	ECT	EA	8	
23	22	PA0ZZ							STRAP, NYLON 13228E1886-2	97403	ECT	EA	4	
23	23	XB0ZZ							BRACKET, CABLE PAN 13228E3399	97403	ECT	EA	1	
23	24	PA0ZZ						5305-00-984-5691	SCREW, MACH, PAN HD MS33206-311	96906	ECT	EA	16	
23	25	XB0ZZ						4210-00-223-4857	BRACKET, FIRE EXT 13214 E1235	97403	ECT	EA	1	
23	26	PA0ZZ						5305-00-993-1848	SCREW, MACH, PAN HD MS33207-265	96906	ECT	HD	3	
23	27	PA0ZZ							STRAP, NYLON, RAILS 13228E1886-3	97403	ECT	EA	4	
23	28	PA0ZZ						5305-00-993-1851	SCREW, MACH, PAN HD MS33207-267	96906	ECT	HD	1	
23	29	PA0ZZ						5306-00-225-8498	SCREW, CAP, HEX MS90728-33	96906	ECT	HD	4	
23	30	PA0ZZ						5310-00-087-7493	WASHER, FLAT MS27183-13	96906	ECT	HD	4	
23	31	PA0ZZ						5310-00-984-3806	NUT, SELF-LOCKING MS51922-9	96906	ECT	HD	4	
23	32	XB0ZZ						2540-00-903-3503	ACCESSORY BOX 13214E1256	97403	ECT	EA	1	



(1) ILLUSTRATION		(2) SMR CODE					(3) MC	(4)	DESCRIPTION	(6) USABLE ON CODE	(7) QTY PER EQUIP	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SSI	f. EPL ACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	1/M	INI	
23	33	XBHZZ							TRAILER, M200A1 13228E1870 97403	ECT	EA	1
<p>NOTE</p> <p>see TM 9-2330 -205- 14&amp;P for component parts.</p>												

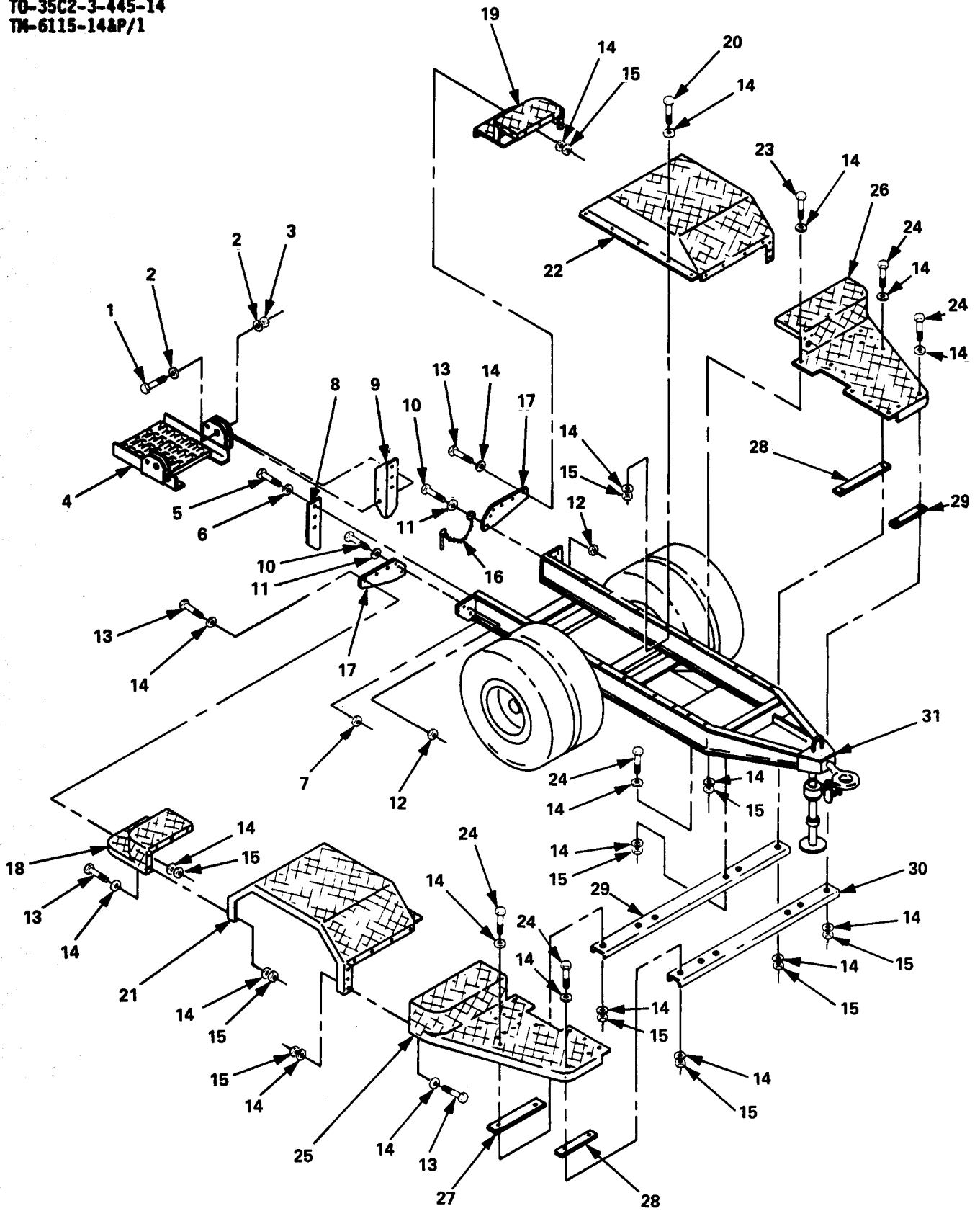


Figure F-24. Fender and Step Assemblies

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE					
24	1	PAOZZ						5305-00-939-9204	SCREW,CAP,HEX MS90725-187	96906	ECT	BX	2	
24	2	PAOZZ						5310-00-809-8533	WASHER,FLAT MS27183-23	96906	ECT	EA	4	
24	3	PAOZZ						5310-00-067-6356	NUT, SELF-LOCKING MS51922-57	96906	ECT	EA	2	
24	4	XBOZZ						2510-00-926-3517	PLATFORM, TAILGATE 13214E1298	97403	ECT	EA	1	
24	5	PAOZZ						5305-00-071-2069	SCREW,CAP,HEX MS90728-113	96906	ECT	HD	6	
24	6	PAOZZ						5310-00-809-5998	WASHER,FLAT MS27183-18	96906	ECT	HD	6	
24	7	PAOZZ						5310-00-225-6993	NUT, SELF-LOCKING MS51922-33	96906	ECT	EA	6	
24	8	XBOZZ							BRACKET, RIGHT HAND 13228E1874	97403	ECT	EA	1	
24	9	XBOZZ							BRACKET,LEFT HAND 13228E1875	97403	ECT	EA	1	
24	10	PAOZZ						5305-00-068-0511	SCREW,CAP,HEX MS90728-62	96906	ECT	HD	6	
24	11	PAOZZ						5310-00-080-6004	WASHER,FLAT MS27183-14	96906	ECT	HD	6	
24	12	PAOZZ						5310-00-087-4652	NUT, SELF-LOCKING MS51922-17	96906	ECT	HD	6	
24	13	PAOZZ						5306-00-225-8499	SCREW,CAP,HEXAGON MS90725-34	96906	ECT	HD	36	
24	14	PAOZZ						5310-00-081-4219	WASHER,FLAT MS27183-12	96906	ECT	HD	86	
24	15	PAOZZ						5310-00-984-3806	NUT, SELF-LOCKING MS51922-9	96906	ECT	HD	75	
24	16	PAOZZ						5340-01-156-6142	ANCHOR,PLATFORM 13214 E1303	97403	ECT	EA	2	

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUI
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SSI	b. REPL FACTOR		REF NUMBER & NFR CODE					
24	17	XBOZZ							BRACKET, STEP, REAR 13214E1309-1 97403	ECT	EA	2		
24	18	XBOZZ							STEP, REAR, ROADSIDE 13228E1876 97403	ECT	EA	1		
24	19	XBOZZ							STEP, REAR, CURBSIDE 13214E1259 97403	ECT	EA	1		
24	20	PAOZZ						5306-00-255-8500	SCREW, CAP, HEX MS90725-35 96906	ECT	HD	10		
24	21	XBOZZ						251 0-01-195-4273	FENDER, CURBSIDE 13214E1263 97403	ECT	EA	1		
24	22	XBOZZ						2510-01-213-3242	FENDER, ROADSIDE 13214E1264 97403	ECT	EA	1		
24	23	PAOZZ						5305-00-225-9081	SCREW, CAP, HEX MS90725-36 96906	ECT	HD	2		
24	24	PAOZZ						5306-00-225-8503	SCREW, CAP, HEX MS90725-39 96906	ECT	EA	8		
24	25	XBOZZ							STEP, FRONT, CURBSIDE 13228E3389 97403	ECT	EA	1		
24	26	XBOZZ							STEP, FRONT, ROADSIDE 13228E1903 97403	ECT	EA	1		
24	27	XBOZZ						5365-00-945-5998	SPACER, PLATE 13214E1267-2 97403	ECT	EA	1		
24	28	XBOZZ						5365-00-944-2692	SPACER, PLATE 13214E1267-1 97403	ECT	EA	2		
24	29	XBOZZ							CHANNEL 13214E1463 97403	ECT	EA	1		
24	30	XBOZZ							CHANNEL 13214E1268 97403	ECT	EA	1		
24	31	XBFZZ							CHASSIS 13228E1871 97403	ECT	EA	1		



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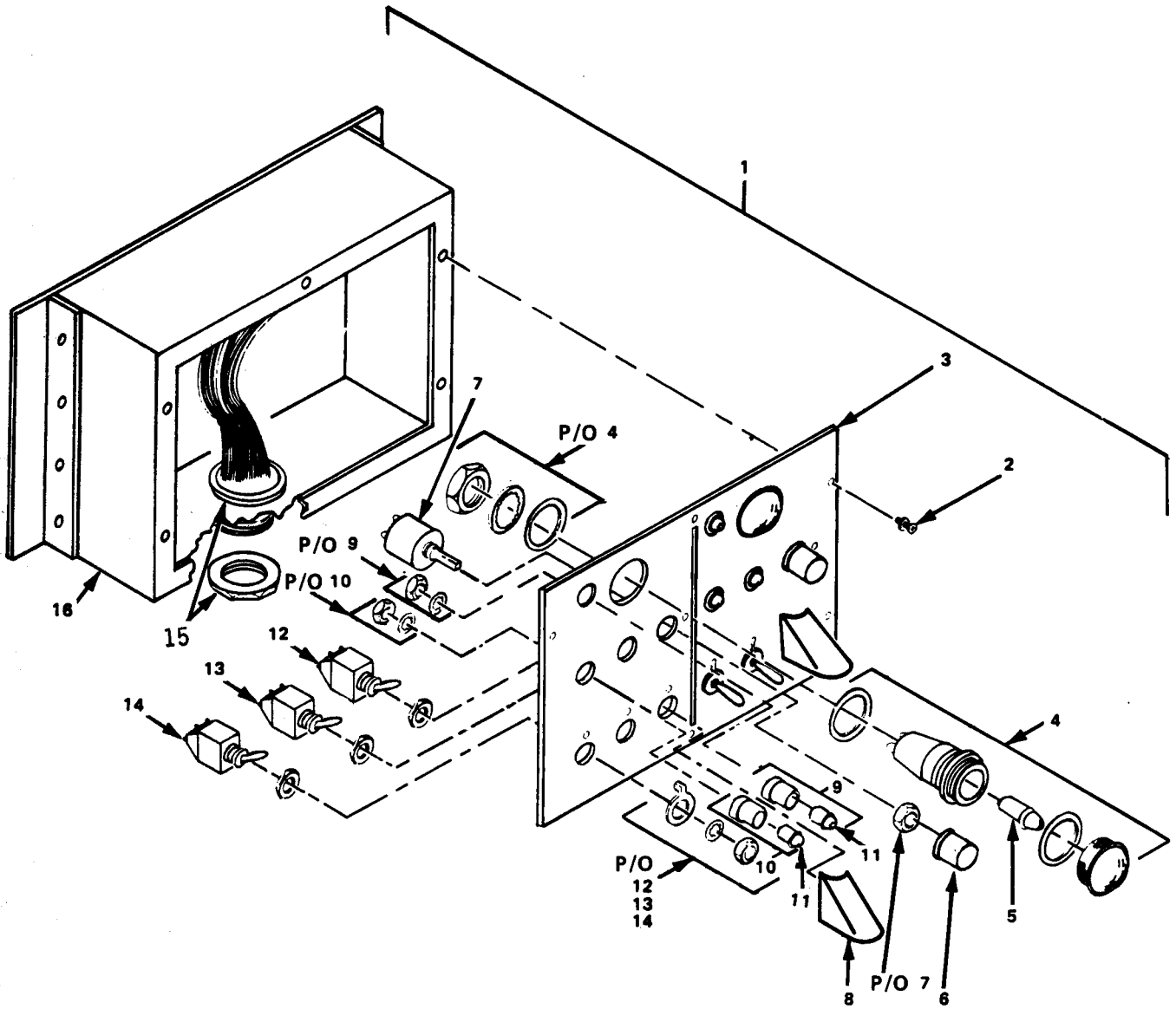


Figure F-25. Remote Control Unit

ILLUSTRATION		(2) SMR CODE				USMC		(4)	(5) DESCRIPTION		USABLE ON CODE	(6) I/M	(7) TY NC N MIT	(8) ISMC ITY ER QUIP
a. FIG. NO.	b. ITEM ID.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. EPL ACTOI	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE					
25	1	PBOFF							REMOTE CTRL UNIT 13228E1869 97403	ECT	EA	1		
25	2	PAFZZ						5305-00-036-6968	SCREW, ASSEMBLED WAS 13214E3290-18 30554	ECT	EA	6		
25	3	XBFZZ							PANEL, REMOTE CTRL 13228E1915 97403	ECT	EA	1		
25	4	PAFZZ						6210-00-831-8247	LIGHT, INDICATOR 51-3502-01317-20 72619	ECT	EA	2		
25	5	PAQZZ						5240-00-143-3060	LAMP, INCANDESCENT W-L-101/130 81348	ECT	EA	2		
25	6	PAFZZ						5355-00-916-2060	KNOB, CONTROL, PLASTI MS91528-0F2B 96906	ECT	EA	2		
25	7	PAFZZ						5905-00-665-7855	RHEOSTAT M22-04-00181FD 81349	ECT	EA	2		
25	8	PAFZZ						5930-00-615-6731	GUARD, SWITCH MS25224-1 96906	ECT	EA	2		
25	9	PAFZZ						5210-00-717-2900	LIGHT, ASSY, RED LH73/1LL12RN2 81349	ECT	EA	2		
25	10	PAFZZ						5210-00-724-2447	LIGHT, ASSY, GREEN LH73/1-LC126N2 81349	ECT	EA	4		
25	11	PAQZZ						5240-00-080-2012	LAMP, INCANDESCENT MS25237-327AS15 96906	ECT	EA	6		
25	12	PAFZZ						5930-00-683-1629	SWITCH, TOGGLE MS24523-23 96906	ECT	EA	2		
25	13	PAFZZ						5930-00-683-1633	SWITCH, TOGGLE MS24523-27 96906	ECT	EA	2		
25	14	PAFZZ						5930-00-906-3477	SWITCH, TOGGLE MS27407-2 96906	ECT	EA	2		
25	15	PDFZZ							WIRING HARNESS, 13228E3370 97403	ECT	EA	1		

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 NAVFAC P-8-647-14&P  
 T0-35C2-3-445-14  
 TM-6115-14&P/1

(1) ILLUSTRATION		(2) SNR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6) USABLE ON CODE	(7) QTY INC IN UNI'	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. SBI	f. REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & NFR CODE			
25	15A	PAFZZ							TERMINAL LUG MS25036-102 96906	ECT	EA	30
25	15B	PAFZZ						5940-00-557-1629	TERMINAL LUG MS25036-149 96906	ECT	EA	6
25	15C	PAFZZ						5975-00-944-1499	STRAP MS3368-1-9A 96906	ECT	EA	1
25	15D	PAFZZ						5975-00-111-3208	STRAP MS3367-5-9 96906	ECT	EA	AR
									WIRE, ELECTRICAL M5086/2-20-9 96906	ECT		
									CONNECTOR, ELECTRICAL PLUG D38999 /24-FG39P 81349	ECT		
									HOUSING, RMOTE CNTRL 13228 E1914 97403	ECT		





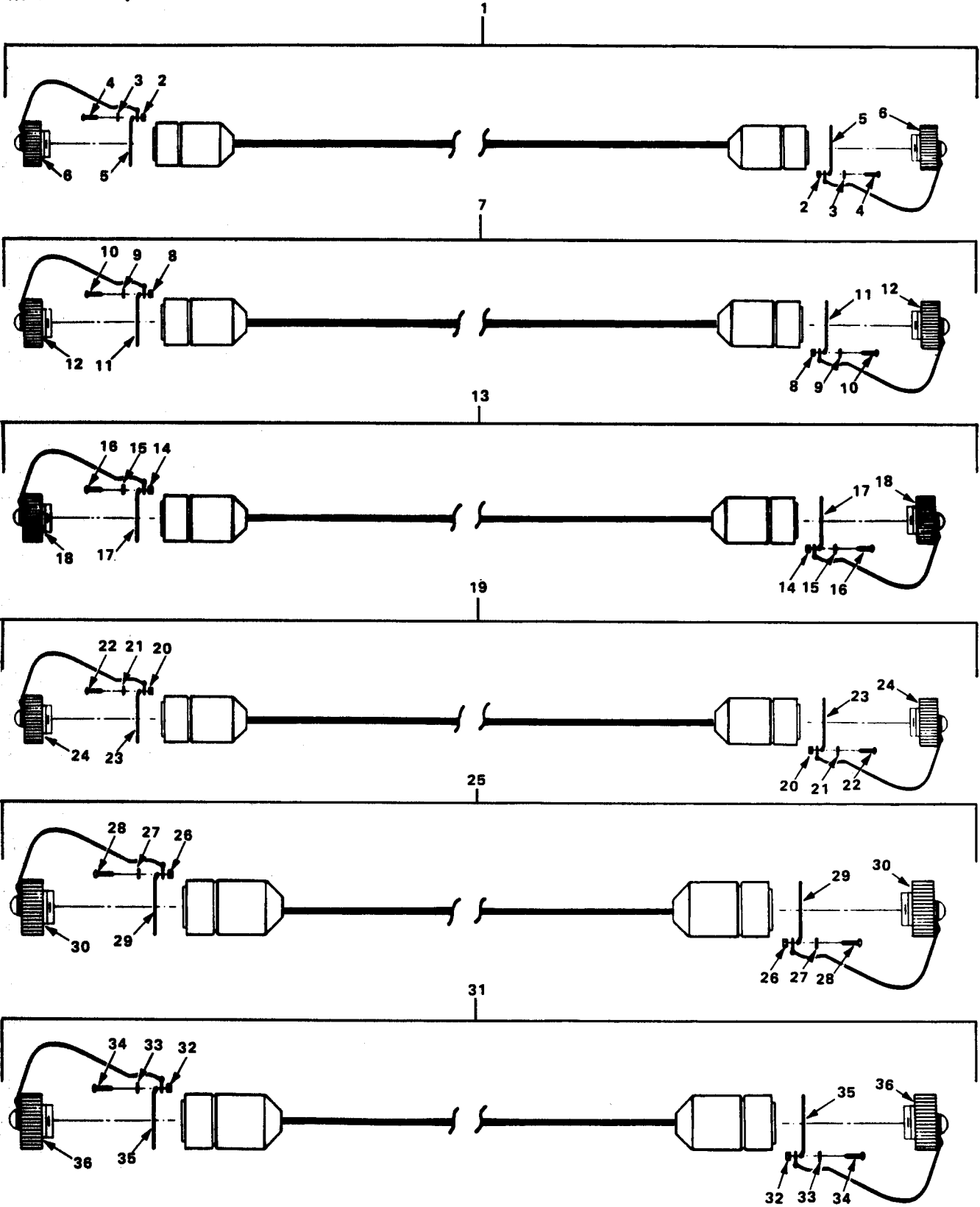


Figure F-26. Interconnection Cables

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION		(6)	(7)	(8)
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SS	b. REPL FACTC	NATIONAL STOCK NUMBER	REF NUMBER REFR CODE	USABLE ON CODE	J/I	ITY INC M INI	USMC QTY PER EQUIP
26	1	PB0DD							ABLE ,CONTROL, 100FT 13228E1946 97403	ECT	EA	1	
26	2	PA0ZZ						5310-00-177-1332	LOCKNUT MS17830-04C 96906	ECT	EA	2	
26	3	PA0ZZ						5310-00-057-0573	WASHER,FLAT NAS620C4 80205	ECT	HD	2	
26	4	PA0ZZ						5305-00-054-5649	SCREW,MACH,PAN HD MS51957-15 96906	ECT	HD	2	
26	5	PA0ZZ						5365-01-082-3036	RING RETAINING 755002A7780-1 87990	ECT	EA	2	
26	6	PA0ZZ							DUST COVER D38999/32W21R 81349	ECT	EA	2	
26	7	PB0DD							ABLE , POWER,25FT 13228E1944-2 97403	ECT	EA	1	
26	8	PA0ZZ						5310-00-177-1332	LOCKNUT MS17830-04C 96906	ECT	EA	2	
26	9	PA0ZZ						5310-00-057-0573	WASHER , FLAT NAS620C4 80205	ECT	HD	2	
26	10	PA0ZZ						5305-00-054-5649	SCREW,MACH,PAN HD MS51957-15 96906	ECT	HD	2	
26	11	PA0ZZ							RING, RETAINING 670258-90 06324	ECT	EA	2	
26	12	PA0ZZ						1935-01-076-4602	COVER, ELECTRICAL MS17350C36 96906	ECT	EA	2	
26	13	PB0DD							IBLE,POWER,5FT 13228E1944-1 97403	ECT	EA	1	
26	14	PA0ZZ						5310-00-177-1332	LOCKNUT MS17830-04C 96906	ECT	EA	2	
26	15	PA0ZZ						5310-00-057-0573	WASHER , FLAT NAS620C4 80205	ECT	HD	2	
26	16	PA0ZZ						5305-00-054-5649	SCREW, MACH, PAN HD MS51957-15 96906	ECT	HD	2	

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE OM CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
i. FIG. ID.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR		REF NUMBER & MFR CODE					
26	17	PAOZZ							RING, RETAINING 670258-90 06324	ECT	EA	2		
26	18	PAOZZ						5935-01 -076-4602	COVER, ELECTRICAL MS17350C36 96906	ECT	EA	2		
26	19	PBODD							CABLE , CONTROL,5FT 13228E1945-1 97403	ECT	EA	1		
26	20	PAOZZ						531 0-00-177-1332	LOCKNUT MS17830-04C 96906	ECT	EA	2		
26	21	PAOZZ						5310-00-057-0573	WASHER,FLAT NAG620C4 80205	ECT	HD	2		
26	22	PAOZZ						5305-00-054-5649	SCREW, MACH , PAN HD MS1957-15 96906	ECT	HD	2		
26	23	PAOZZ						5365-01-082-3036	RING RETAINING 755002A7780-1 87990	ECT	EA	2		
26	24	PAOZZ							DUST COVER D38999/32W23R 81349	ECT	EA	2		
26	25	PBODD							CABLE ,CONTROL , 25FT 13228E 1945-2 97403	ECT	EA	1		
26	26	PAOZZ						5310-00-177-1332	LOCKNUT MS17830-04C 96906	ECT	EA	2		
26	27	PAOZZ						5310-00-057-0573	WASHER,FLAT NAG620C4 80205	ECT	HD	2		
26	28	PAOZZ						5305-00-054 -5649	SCREW, MACH, PAN HD MS1957-15 96906	ECT	HD	2		
26	29	PAOZZ						5365-01-082-3036	RING RETAINING 755002A7780-1 87990	ECT	EA	2		
26	30	PAOZZ							DUST COVER D38999/32W23R 81349	ECT	EA	2		
26	31	PBODD							CABLE, PARALLELING 13228E1947 97403	ECT	EA	1		
26	32	PAOZZ						5310-00-177-1332	LOCKNUT MS17830-04C 96906	ECT	EA	2		

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4)	DESCRIPTION		USABLE ON CODE	(5) M	(6) QTY UNIT	(8) ISMC ITY ER QUIP
FIG. NO.	ITEM NO.	A. ARMY	B. AIR FORCE	C. NAVY	D. SMC	E. SI	F. REPL FACTOR	NATIONAL STOCK NUMBER	EF NUMBER EFR CODE					
26	33	A0ZZ						310-00-057-0573	WASHER, FLAT NAS620C4 80205	ECT	D	2		
26	34	A0ZZ						305-00-054-5649	SCREW, MACH, PAN HD MS31957-15 96906	ECT	D	2		
26	35	A0ZZ						365-01-254-6476	RING, RETAINING 670258-58 06324	ECT	A	2		
26	36	A0ZZ							DUST COVER D38999/32W15R 81349	ECT	A	2		

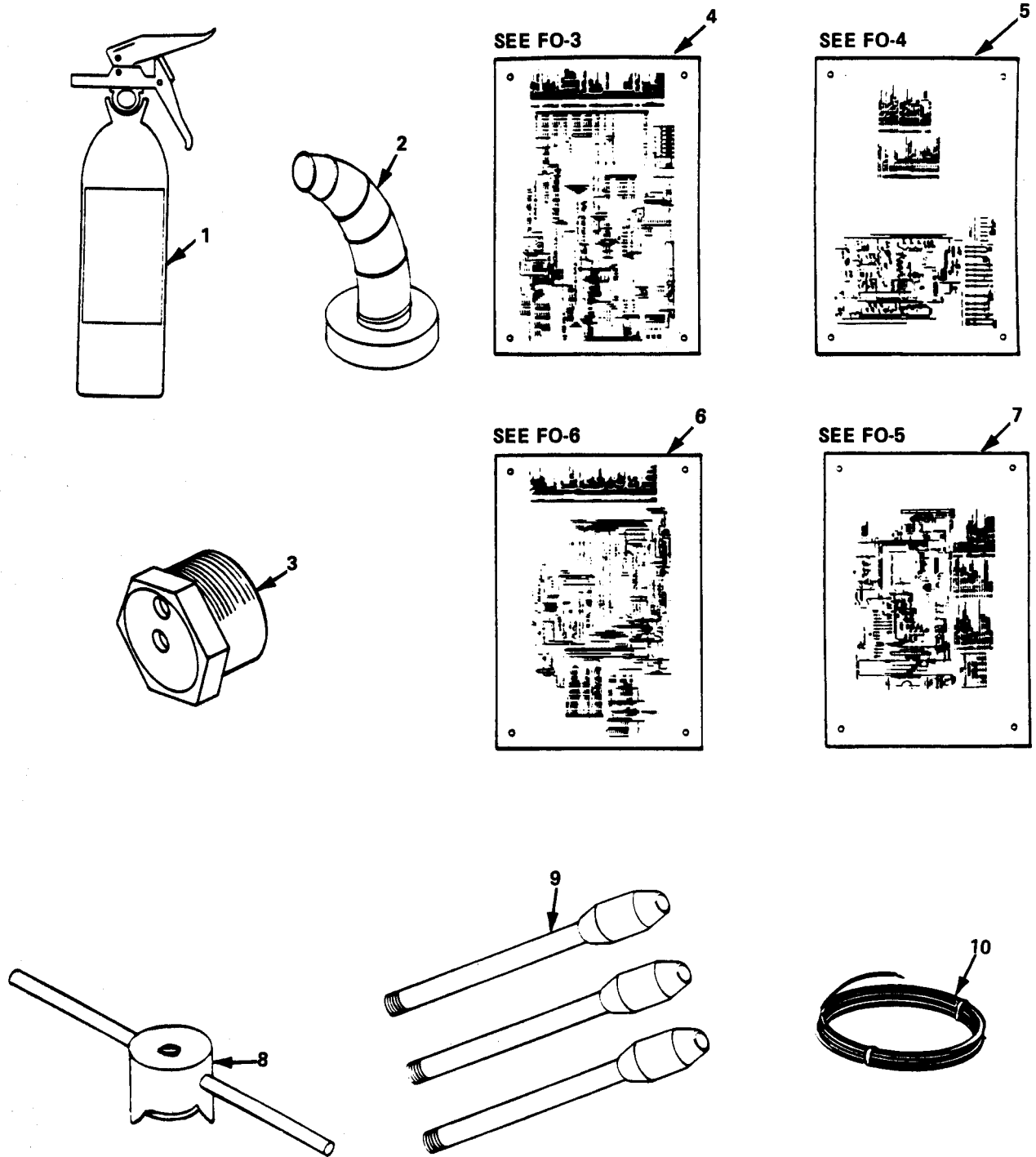


Figure F-27. Accessories and Schematics

(1) ILLUSTRATION			(2) SHR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		USABLE OM CODE	6) /M	7) TY NC N MIT	(8) JSMC ITY PER EQUIP
1. 16. ID.	1. ITEM ID.	2. RMY	3. AIR FORCE	4. NAVY	5. BMC	6. SSI	7. EPL ACTOR		REF NUMBER & MFR CODE						
27	1	A0ZF							EXTINGUISHER, FIRE 13228E3394	97403	ECT	EA	1		
27	2	A0ZZ						240-00-177-6194	SPOUT, CAN, FLEXIBLE 838A7511	09647	ECT	EA	1		
27	3	A0ZZ						910-00-066-1235	ADAPTER ABBY, FUEL 13211E7541	97403	ECT	EA	1		
27	4	B0ZZ							PLATE, TROUBLESHOOT 13228E1927	97403	ECT	EA	1		
27	5	B0ZZ							PLATE, SCHEMATIC 13228E1926	97403	ECT	EA	1		
27	6	B0ZZ							PLATE, TROUBLESHOOT 13228E1928	97403	ECT	EA	1		
27	7	B0ZZ							PLATE, SCHEMATIC 13228E1925	97403	ECT	EA	1		
27	8	A0ZZ						120-01-013-1676	HAMMER, SLIDE P74-144	45225	ECT	EA	1		
27	9	A0ZZ						975-00-878-3791	ROD, GROUND 3598	07464	ECT	EA	2		
27	10	A0ZZ							CABLE, GROUND 13228E3384	97403	ECT	EA	1		

(1) ILLUSTRATION			(2) SMR CODE			(3) USMC		(4)	DESCRIPTION	USABI ON CODE	(6) U/	(7) ITY INC IN INI	(8) USMC QTY PER EQU
a. FIG NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. JSMC	a. SS	b. PL ST	NATIONAL STOCK NUMBER					
		PAFZZ						5970-01-182-776	BULK ITEMS SPLICING TAPE 130C 3/4IN 75037	ECT	R	V	
		PADZZ							CABLE, 5 CONDUCTOR 13222E1432 97403	ECT	F	V	
		PADZZ							CABLE, 19 CONDUCTOR 13222E1434 97403	ECT	F	V	
		PAOZZ							NYLAR 13228E1882 97403	ECT	EI	V	
		PAOZZ							INSULATION 13228E1932 97403	ECT	EA	V	
		PAFZZ							BASKET 13228E1938 97403	ECT	EA	V	
		PAOZZ							BASKET 13228E1940 97403	ECT	EA	V	
		PAOZZ							INSULATION 13228E1942-1 97403	ECT	EA	V	
		PAOZZ							INSULATION 13228E1942-2 97403	ECT	EA	V	
		PAOZZ							INSULATION 13228E3373-1 97403	ECT	EA	V	
		PAOZZ							INSULATION 13228E3373-2 97403	ECT	EA	V	
		PAOZZ							INSULATION 13228E3373-3 97403	ECT	EA	V	
		PAOZZ							INSULATION 13228E3373-4 97403	ECT	EA	V	
		PAOZZ							INSULATION 13228E3373-5 97403	ECT	EA	V	
		PAOZZ							INSULATION 13228E3373-6 97403	ECT	EA	V	
		PAOZZ						720-00-625-2202	ROSE, PREFORMED 72-2050-2 30554	ECT	EA	V	



(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION  REF NUMBER & MFR CODE	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
a. FIG. NO.	b. ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	a. SSI	b. REPL FACTOR						
		XADZZ							CABLE, 37 CONDUCTOR 998-143 24600	ECT	FT	V	
		PAOZZ							CABLE M13486/1-14 81349	ECT	FT	V	
		PADZZ						5970-00-740-2971	SLEEVING, INSULATION M23053/5-107-9 81349	ECT	FT	V	
		PADZZ						5970-00-812-2967	SLEEVING, INSULATION M23053/5-108-0 81349	ECT	FT	V	
		PADZZ						5970-00-91 5-9186	SLEEVING, INSULATION M23053/5-108-2 81349	ECT	FT	V	
		PADZZ						5970-00-944-1329	SLEEVING, INSULATION M23053/5-108-6 81349	ECT	FT	V	
		PAOZZ							SLEEVING, INSULATION M23053/5-108-9 81349	ECT	FT	V	
		PADZZ						5970-00-914-3118	SLEEVING, INSULATION M23053/5-109-0 81349	ECT	FT	V	
		PADZZ						5970-00-914-3117	SLEEVING, INSULATION M23053/5-109-2 81349	ECT	FT	V	
		PADZZ						5970-00-81 5-1300	SLEEVING, INSULATION M23053/5-110-0 81349	ECT	FT	V	
		XADZZ						5970-00-822-2775	SLEEVING, INSULATION M23053/5-110-9 81349	ECT	FT	V	
		PADZZ						5970-00-812-1358	SLEEVING, INSULATION M23053/5-111-9 81349	ECT	FT	V	
		PAFZZ						5320-00-850-3266	RIVET, BLIND M24243/1-A602 81349	ECT	HD	V	
		PAOZZ						5320-00-303-1060	RIVET, BLIND M24243/1-B502 81349	ECT	EA	V	
		PADZZ						6145-01 -087-1271	WIRE, ELECTRICAL , M5086/2-12-2 81349	ECT	EA	V	
		PADZZ						6145-00-162-5848	WIRE, ELECTRICAL M5086/2-16-0 81349	ECT	FT	V	
		PADZZ						6145-00-578-6605	WIRE, ELECTRICAL , M5086/2-16-9 81349	ECT	FT	V	
		PADZZ							WIRE, ELECTRICAL M5086/2-18-0 81349	ECT	FT	V	

(1) ABSTRACT		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE OM CODE	(6) /M	(7) QTY INC IN UNIT	SM: QUIP
i.	ITEM NO.	a. ARMY	b. AIR FORCE	c. NAVY	d. USMC	e. II	f. REPL FACTOR		REF NUMBER & MFR CODE				
		PADZZ						145-00-851-8505	WIRE, ELECTRICAL MS086/2-20-9 81349	ECT	SL	V	
		PADZZ						145-00-578-6595	WIRE, ELECTRICAL, MS086/2-4-9 81348	ECT	FT	V	
		PADZZ						970-01-158-5159	BINDING COMPOUND MIL-M-24041 81349	ECT	BT		
		PADZZ						030-00-081-2339	BINDING COMPOUND MIL-S-22473 81349	ECT	BT		
		PAFZZ						975-00-074-2072	TRAP, CABLE MS3367-1-9 96906	ECT	)		
		PAFZZ						975-00-111-3208	TRAP, TIEDOWN MS3367-5-9 96906	ECT	D	/	
		PAFZZ						975-00-944-1499	TRAP, CABLE MS3368-1-9A 96906	ECT	D	/	
		PADZZ						4720-00-401-9299	HOSE, NON-METALLIC MS521301A206R 96906	ECT	FT	V	
		PADZZ						6145-00-395-8799	WIRE, ELECTRICAL QQ-M-343C0681T 81348	ECT	FT	V	
		PAFZZ						3439-00-273-2534	SOLDER SN60WRP2 81348	ECT	LB	V	
		PADZZ							TAPE, CLOTH TYPE II 81348	ECT	EA	V	
		PADZZ							CHAI N, SASH, #30 TYPE II CLASS 3 81341	ECT	EA	V	
		PAQZ						7510-01-128-1187	TAPE, PKG, WATERPROOF TYPE IV 81349	ECT	RL	V	

SECTION III. SPECIAL TOOLS LIST

Not app cable.

SECTION IV. NATIONAL STOCK AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5310-00-004-5038	2	1	5305-00-068-0511	22	1
5310-00-004-5038	19	15	5305-00-068-0511	23	1
5365-00-015-6800	16	6	5305-00-068-0511	24	10
5920-00-033-0266	11	9	5305-00-071-1787	13	8
5305-00-036-6968	15	5	5305-00-071-1787	14	3
5305-00-036-6968	18	13	5305-00-071-2069	20	1
5305-00-036-6968	25	2	5305-00-071-2069	24	5
5305-00-038-3089	18	10	5305-00-071-2070	23	14
5310-00-045-3299	3	6	5305-00-071-2078	19	3
5310-00-045-3299	21	4	5305-00-071-2510	14	14
5310-00-045-5218	4	14	5975-00-074-2072	BULK	
5310-00-052-3632	13	7	6240-00-080-2012	25	11
5310-00-052-3632	18	15	5310-00-080-6004	13	14
5305-00-054-5649	26	4	5310-00-080-6004	23	2
5305-00-054-5649	26	10	5310-00-080-6004	24	11
5305-00-054-5649	26	16	8030-00-081-2339	BULK	
5305-00-054-5649	26	22	5310-00-081-4219	8	15
5305-00-054-5649	26	28	5310-00-081-4219	23	11
5305-00-054-5649	26	34	5310-00-081-4219	24	14
5305-00-054-6655	4	5	5310-00-082-1404	18	55
5310-00-057-0573	26	3	5310-00-087-4652	23	3
5310-00-057-0573	26	9	5310-00-087-4652	24	12
5310-00-057-0573	26	15	5310-00-087-7493	23	30
5310-00-057-0573	26	21	5975-00-111-3208	11	19
5310-00-057-0573	26	27	5975-00-111-3208	12	6
5310-00-057-0573	26	33	5975-00-111-3208	12	12
5305-00-059-3660	11	5	5975-00-111-3208	12	17
5310-00-063-7360	4	4	5975-00-111-3208	BULK	
5310-00-063-7360	18	21	5940-00-115-2684	1	3
5315-00-063-9016	13	4	5940-00-115-2684	1	8
2910-00-066-1235	27	3	6240-00-143-3060	25	5
5310-00-067-6356	24	3	5940-00-143-4775	18	39
5310-00-067-6357	18	4	5940-00-143-4777	18	41
5305-00-068-0500	3	18	5940-00-143-4794	18	38
5305-00-068-0500	4	1	6145-00-162-5848	BULK	
5305-00-068-0500	5	1	5961-00-165-2903	18	46
5305-00-068-0500	6	3	5310-00-177-1332	26	2
5305-00-068-0500	7	3	5310-00-177-1332	26	8
5305-00-068-0500	9	2	5310-00-177-1332	26	14
5305-00-068-0500	13	1	5310-00-177-1332	26	20
5305-00-068-0500	15	1	5310-00-177-1332	26	26
5305-00-068-0500	17	1	5310-00-177-1332	26	32
5305-00-068-0500	18	6	7240-00-177-6154	27	2
5305-00-068-0500	18	18	5305-00-191-6226	15	8
5305-00-068-0501	1	22	5305-00-191-6226	18	9
5305-00-068-0502	3	1	6110-00-201-6015	18	22
5305-00-068-0502	6	7	5940-00-204-8966	18	35
5305-00-068-0502	9	6	5940-00-204-8966	18	48
5305-00-068-0502	18	3	5310-00-209-0965	13	9

TM5-6115-634-14&P  
 NAVFAC P-8-647-14&P  
 T0-35C2-3-445-14  
 TM-6115-14&P/1

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5310-00-209-0965	14	4	6145-00-578-6605	12	13
42 10-00-223-4857	23	25	6145-00-578-6605	12	16
5305-00-225-3843	8	4	6145-00-578-6605	BULK	
5305-00-225-3843	8	18	5310-00-582-5965	1	21
5305-00-225-3843	14	11	5310-00-582-5965	3	2
5310-00-225-6993	24	7	5310-00-582-5965	4	2
5306-00-225-8498	23	29	5310-00-582-5965	5	2
5306-00-225-8499	8	14	5310-00-582-5965	6	4
5306-00-225-8499	11	1	5310-00-582-5965	7	2
5306-00-225-8499	23	17	5310-00-582-5965	8	5
5306-00-225-8499	24	13	5310-00-582-5965	9	3
5306-00-225-850 1	23	10	5310-00-582-5965	11	3
5306-00-225-8503	24	24	5310-00-582-5965	13	2
5305-00-225-9081	21	1	5310-00-582-5965	14	10
5305-00-225-9081	24	23	5310-00-582-5965	15	2
5306-00-226-4825	7	5	5310-00-582-5965	17	2
5306-00-226-4825	10	1	5310-00-582-5965	18	7
5306-00-226-4825	16	1	5310-00-584-5272	19	4
5306-00-226-4825	20	12	5310-00-584-5272	20	2
5330-00-231-6633	14	6	5950-00-601-6296	18	56
5305-00-253-5615	4	11	5930-00-615-6731	25	8
5306-00-255-8500	24	20	5935-00-622-2924	12	4
3439 -00-273 -2536	BULK		5935-00-622-2929	12	10
5940-00-283-5280	18	37	4720-00-625-2202	14	8
5320-00-303-1060	5	5	4720-00-625-2202	BULK	
5320-00-303-1060	8	1	5340-00-626-9402	13	10
5320-00-303-1060	BULK		5330-00-630-3559	13	12
6145-00-395-8799	BULK		5310-00-637-9541	1	12
5310-00-399-0995	20	11	5310-00-637-9541	13	15
5310-00-400-3495	16	5	5310-00-637-9541	19	2
4720-00-401-9299	BULK		5310-00-637-9541	22	2
5310-00-407-9566	7	6	5905-00-642-1955	18	50
5310-00-407-9566	8	13	5905-00-665-7855	25	7
5310-00-407-9566	10	2	5930-00-683-1629	25	12
5310-00-407-9566	16	2	5930-00-683-1633	25	13
5310-00-407-9566	20	13	6210-00-717-2900	25	9
5310-00-407-9566	23	12	6210-00-724-2447	25	10
5310-00-420-6064	16	4	5305-00-724-6760	19	11
5930-00-430-3532	14	13	5310-00-732-0558	1	11
5945-00-435-1833	15	7	5310-00-732-0558	11	22
2940-00-463-1362	14	16	531 0-00-732-0558	13	16
2590-00-473-6331	23	4	531 0-00-732-0558	22	3
9905-00-477-4137	4	12	5970 -00-740-2971	BULK	
3030-00-517-4586	16	9	5310-00-761-6882	1	20
6150-00-519-2714	18	44	531 0-00-761-6882	5	8
4730-00-541-6584	14	7	5310-00-761-6882	6	6
5305-00-543-2419	13	13	5310-00-761-6882	7	1
5935-00-548-1529	12	2	5310-00-761-6882	8	7
5940-00-549-6581	1	17	5310-00-761-6882	9	5
5940-00-549-6583	1	16	5310-00-761-6882	11	4
5940-00-557-1629	18	36	531 0-00-761-6882	14	9
6145-00-578-6595	11	14	5305-00-782-9489	19	10
6145-00-578-6595	11	26	5310-00-809-4058	3	3
6145-00-578-6595	BULK		531 0-0 0-809-4058	6	5
6145-00-578-6605	11	21	5310-00-809-4058	9	4
6145-00-578-6605	12	7			

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5310-00-809-4058	11	2	5305-00-942-2196	1	26
5310-00-809-4058	18	5	5305-00-942-2196	19	1
5310-00-809-5998	19	5	5970-00-944-1329	11	13
5310-00-809-5998	20	3	5970-00-944-1329	BULK	
5310-00-809-5998	23	15	5975-00-944-1499	11	20
5310-00-809-5998	24	6	5975-00-944-1499	12	5
5310-00-809-8533	24	2	5975-00-944-1499	12	9
5310-00-809-8544	3	7	5975-00-944-1499	12	19
5310-00-809-8544	18	16	5975-00-944-1499	BULK	
5310-00-809-8546	22	7	5365-00-944-2692	24	28
5310-00-809-8546	23	20	5365-00-945-5998	24	27
5970-00-812-1358	BULK		5310-00-951-7209	2	3
5970-00-812-2967	11	11	5940-00-983-6096	18	43
5970-00-812-2967	BULK		5310-00-984-3806	23	31
5970-00-815-1300	BULK		5310-00-984-3806	24	15
5310-00-820-6653	2	2	5305-00-984-5691	23	24
5310-00-820-6653	19	14	5305-00-984-6193	18	17
5970-00-822-2775	BULK		5305-00-984-6193	21	3
5940-00-825-5041	18	40	5305-00-984-6194	18	19
6210-00-831-8247	25	4	5305-00-984-6195	3	8
5905-00-843-2809	18	51	5305-00-984-6198	13	6
5315-00-844-3662	16	7	5305-00-989-7434	23	19
5320-00-850-3266	6	9	5305-00-989-7435	23	5
5320-00-850-3266	9	12	5305-00-993-1848	23	26
5320-00-850-3266	BULK		5305-00-993-1851	22	6
6145-00-851-8505	BULK		5305-00-993-1851	23	28
5945-00-855-7478	18	23	5935-01-005-9925	18	54
5905-00-860-6276	18	49	5305-01-006-2052	21	9
5310-00-877-5797	21	10	5940-01-009-4763	4	16
5975-00-878-3791	27	9	5310-01-012-3595	11	6
5310-00-880-7744	7	7	5310-01-012-3595	22	8
5310-00-880-7744	8	12	5310-01-012-3595	23	6
5310-00-880-7744	10	3	5310-01-012-3595	23	21
5310-00-880-7744	20	14	5120-01-013-1676	27	8
5310-00-880-7744	23	13	5940-01-013-8287	12	18
5305-00-889-3001	18	42	5310-01-017-3876	4	15
6625-00-892-4342	18	20	5905-01-021-9133	18	52
5310-00-897-6082	4	13	5340-01-024-9937	13	3
2540-00-903-3503	23	32	5310-01-070-2105	19	9
5930-00-906-3477	25	14	5310-01-070-2105	20	4
4730-00-909-8627	14	1	5310-01-070-2105	23	16
5970-00-914-3117	1	2	5935-01-071-0331	18	27
5970-00-914-3117	BULK		5935-01-075-9503	11	16
5970-00-914-3118	1	7	5935-01-076-4602	4	10
5970-00-914-3118	BULK		5935-01-076-4602	26	12
5970-00-915-9186	11	12	5935-01-076-4602	26	18
5970-00-915-9186	BULK		5365-01-082-3036	26	5
5355-00-916-2060	25	6	5365-01-082-3036	26	23
2510-00-926-3517	24	4	5365-01-082-3036	26	29
5310-00-934-9739	18	11	6145-01-087-1271	BULK	
5310-00-934-9747	18	12	7510-01-128-1187	BULK	
5310-00-934-9751	15	9	5935-01-128-1348	4	8
5310-00-934-9757	3	5	5935-01-147-5902	12	3
5310-00-934-9757	21	8	5925-01-154-6265	18	25
5305-00-939-9204	24	1	5320-01-155-6120	15	12

TM5-6115-634-14&P  
 NAVFAC P-8-647-14&P  
 T0-35C2-3-445-14  
 TM-6115-14&P/1

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5340-01-156-6142	24	16	5935-01-202-6206	18	33
5970-01-158-5159	BULK		6140-01-209-4410	1	15
5935-01-175-8419	18	53	5935-01-211-4440	18	30
5935-01-176-1708	18	14	2510-01-213-3242	24	22
5970-01-182-7761	BULK		6115-01-213-8791	9	13
2510-01-195-4273	24	21	5935-01-223-1563	18	28
5935-01-196-1094	18	34	5935-01-226-8365	18	29
5306-01-197-1738	1	14	5935-01-229-0140	18	32
5935-01-197-2625	18	26	4910-01-246-0923	20	6
5935-01-199-4442	18	31	5365-01-254-6476	26	35

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
72-2057	30554	13	12	755002 A7780-1	87990	26	5
72-2067-1	30554	1	14	755002 A7780-1	87990	26	23
72-2121	30554	9	13	755002 A7780-1	87990	26	29
72-2204	30554	18	56	838A7511	09647	27	2
72-2241	30554	18	54				

TM5-6115-634-14&P  
 NAVFAC P-8-647-14&P  
 T0-35C2-3-445-14  
 TM-6115-14&P/1

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS90725-3	96906	4	1	P15121-64	45722	18	9
MS90725-3	96906	5	1	P74-144	45225	27	8
MS90725-3	96906	6	3	QQ-W-343C06B1T	81348	BULK	
MS90725-3	96906	7	3	RP0025-2120GBA	30554	18	52
MS90725-3	96906	9	2	RW33V100	81349	18	50
MS90725-3	96906	13	1	RW33V150	81349	18	51
MS90725-3	96906	15	1	SN60WRP2	81348	BULK	
MS90725-3	96906	17	1	TLF-1213-B-JAM	82458	4	15
MS90725-3	96906	18	6	TYPE IV	81349	BULK	
MS90725-34	96906	8	14	U250	01652	13	10
MS90725-34	96906	11	1	W-L-101/130	81348	25	5
MS90725-34	96906	23	17	XBN8190	90202	20	6
MS90725-34	96906	24	13	10-552943-239	77820	4	8
MS90725-35	96906	24	20	130C 3/4 IN	75037	BULK	
MS90725-36	96906	21	1	13211E1492-1	97403	23	4
MS90725-36	96906	24	23	13211E6730	97403	4	12
MS90725-37	96906	23	10	13211E7541	97403	27	3
MS90725-39	96906	24	24	13214E1235	97403	23	25
MS90725-5	96906	1	22	13214E1256	97403	23	32
MS90725-6	96906	3	1	13214E1263	97403	24	21
MS90725-6	96906	6	7	13214E1264	97403	24	22
MS90725-6	96906	9	6	13214E1267-1	97403	24	28
MS90725-6	96906	18	3	13214E1267-2	97403	24	27
MS90725-60	96906	1	26	13214E1298	97403	24	4
MS90725-60	96906	19	1	13214E1303	97403	24	16
MS90725-86	96906	13	8	13214E3290-18	30554	15	5
MS90725-86	96906	14	3	13214E3290-18	30554	18	13
MS90728-113	96906	20	1	13214E3290-18	30554	25	2
MS90728-113	96906	24	5	1569A	28265	16	5
MS90728-122	96906	19	3	1N5619	14099	18	46
MS90728-13	96906	14	14	202568A	28265	16	4
MS90728-32	96906	7	5	2301-38	23663	11	9
MS90728-32	96906	10	1	287269A	28265	16	6
MS90728-32	96906	16	1	3598	07464	27	9
MS90728-32	96906	20	12	3805	05748	20	11
MS90728-33	96906	23	29	38TB20	81349	18	43
MS90728-61	96906	13	13	40819	97403	14	6
MS90728-62	96906	22	1	51-3502-01317-20	72619	25	4
MS90728-62	96906	23	1	511-061800-00	78189	4	4
MS90728-62	96906	24	10	511-061800-00	78189	18	21
MS90728-66	96906	19	10	511-081800-00	78189	13	7
MS90728-8	96906	8	4	511-081800-00	78189	18	15
MS90728-8	96906	8	18	601J	83330	18	44
MS90728-8	96906	14	11	69-561-6	30554	11	6
MS91528-0F2B	96906	25	6	69-561-6	30554	22	8
MSA200	03776	18	20	69-561-6	30554	23	6
NAS561C8-22	80205	13	4	69-561-6	30554	23	21
NAS620C4	80205	26	3	69-692-1	30554	4	16
NAS620C4	80205	26	9	69-768	93742	18	22
NAS620C4	80205	26	15	70-1310	30554	14	13
NAS620C4	80205	26	21	70-1582-6	30554	1	15
NAS620C4	80205	26	27	70-4020	30554	14	16
NAS620C4	80205	26	33	72-2050-2	30554	14	8
P15121-3	45722	18	10	72-2050-2	30554	BULK	
P15121-64	45722	15	8	72-2053	30554	13	3



PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS3452W24-28S	96906	18	32	MS35649-242	96906	18	11
MS3452W28-12S	96906	18	33	MS35649-262	96906	18	12
MS3452W32-7P	96906	18	29	MS35649-282	96906	3	5
MS3452W36-7P	96906	18	34	MS35649-282	96906	21	8
MS3452W36-7S	96906	18	26	MS35650-302	96906	15	9
MS3456W14S-6P	96906	12	4	MS35691-36	96906	4	13
MS3456W20-29P	96906	11	16	MS35842-13	96906	14	1
MS3456W22-19P	96906	12	3	MS39326-17	96906	14	7
MS3456W24-28P	96906	12	2	MS45904-69	96906	18	4
MS3456W24-28S	96906	12	10	MS51066-57	96906	16	9
MS35206-231	96906	18	42	MS51849-65	96906	21	9
MS35206-243	96906	18	18	MS51922-17	96906	23	3
MS35206-245	96906	21	3	MS51922-17	96906	24	12
MS35206-246	96906	18	19	MS51922-33	96906	24	7
MS35206-247	96906	3	8	MS51922-57	96906	24	3
MS35206-249	96906	18	17	MS51922-9	96906	23	31
MS35206-250	96906	13	6	MS51922-9	96906	24	15
MS35206-311	96906	23	24	MS51957-15	96906	26	4
MS35207-263	96906	23	19	MS51957-15	96906	26	10
MS35207-264	96906	23	5	MS51957-15	96906	26	16
MS35207-265	96906	23	26	MS51957-15	96906	26	22
MS35207-267	96906	22	6	MS51957-15	96906	26	28
MS35207-267	96906	23	28	MS51957+15	96906	26	34
MS35338-42	96906	3	6	MS51957-31	96906	4	5
MS35338-42	96906	21	4	MS51958-64	96906	11	5
MS35338-44	96906	1	21	MS51967-14	96906	19	9
MS35338-44	96906	3	2	MS51967-14	96906	20	4
MS35338-44	96906	4	2	MS51967-14	96906	23	16
MS35338-44	96906	5	2	MS51967-2	96906	1	20
MS35338-44	96906	6	4	MS51967-2	96906	5	8
MS35338-44	96906	7	2	MS51967-2	96906	6	6
MS35338-44	96906	8	5	MS51967-2	96906	7	1
MS35338-44	96906	9	3	MS51967-2	96906	8	7
MS35338-44	96906	11	3	MS51967-2	96906	9	5
MS35338-44	96906	13	2	MS51967-2	96906	11	4
MS35338-44	96906	14	10	MS51967-2	96906	14	9
MS35338-44	96906	15	2	MS51967-20	96906	2	1
MS35338-44	96906	17	2	MS51967-20	96906	19	15
MS35338-44	96906	18	7	MS51967-5	96906	7	7
MS35338-45	96906	7	6	MS51967-5	96906	8	12
MS35338-45	96906	8	13	MS51967-5	96906	10	3
MS35338-45	96906	10	2	MS51967-5	96906	20	14
MS35338-45	96906	16	2	MS51967-5	96906	23	13
MS35338-45	96906	20	13	MS51967-8	96906	1	11
MS35338-45	96906	23	12	MS51967-8	96906	11	22
MS35338-46	96906	1	12	MS51967-8	96906	13	16
MS35338-46	96906	13	15	MS51967-8	96906	22	3
MS35338-46	96906	19	2	MS521301A206R	96906	BULK	
MS35338-46	96906	22	2	MS75004-1	96906	1	17
MS35338-47	96906	13	9	MS75004-2	96906	1	16
MS35338-47	96906	14	4	MS75009-33	96906	18	49
MS35338-48	96906	19	4	MS90725-114	96906	23	14
MS35338-48	96906	20	2	MS90725-174	96906	19	11
MS35338-50	96906	2	2	MS90725-187	96906	24	1
MS35338-50	96906	19	14	MS90725-3	96906	3	18

TM5-6115-634-14&P  
 NAVFAC P-8-647-14&P  
 T0-35C2-3-445-14  
 TM-6115-14&P/1

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
G70258-58	06324	26	35	MS24166-D1	96906	18	23
LH73/1-LC12GN2	81349	25	10	MS24523-23	96906	25	12
LH73/1 LL12RN2	81349	25	9	MS24523-27	96906	25	13
M22-04-00181FD	81349	25	7	MS25036-102	96906	18	35
M23053/5-107-9	81349	BULK		MS25036-102	96906	18	48
M23053/5-108-0	81349	11	11	MS25036-106	96906	18	37
M23053/5-108-0	81349	BULK		MS25036-112	96906	18	38
M23053/5-108-2	81349	11	12	MS25036-149	96906	18	36
M23053/5-108-2	81349	BULK		MS25036-153	96906	12	18
M23053/5-108-6	81349	11	13	MS25036-156	96906	18	39
M23053/5-108-6	81349	BULK		MS25036-157	96906	18	41
M23053/5-109-0	81349	1	7	MS25043-18DA	96906	18	53
M23053/5-109-0	81349	BULK		MS25043-22DA	96906	18	14
M23053/5-109-2	81349	1	2	MS25224-1	96906	25	8
M23053/5-109-2	81349	BULK		MS25237-327AS15	96906	25	11
M23053/5-110-0	81349	BULK		MS27183-10	96906	3	3
M23053/5-110-9	81349	BULK		MS27183-10	96906	6	5
M23053/5-111-9	81349	BULK		MS27183-10	96906	9	4
M24243/1-A602	81349	6	9	MS27183-10	96906	11	2
M24243/1-A602	81349	9	12	MS27183-10	96906	18	5
M24243/1-A602	81349	BULK		MS27183-12	96906	8	15
M24243/1-B502	81349	5	5	MS27183-12	96906	23	11
M24243/1-B502	81349	8	1	MS27183-12	96906	24	14
M24243/1-B502	81349	BULK		MS27183-13	96906	23	30
M24243/1B503	81349	15	12	MS27183-14	96906	13	14
M5086/2-12-2	81349	BULK		MS27183-14	96906	23	2
M5086/2-16-0	81349	BULK		MS27183-14	96906	24	11
M5086/2-16-9	81349	11	21	MS27183-18	96906	19	5
M5086/2-16-9	81349	12	7	MS27183-18	96906	20	3
M5086/2-16-9	81349	12	13	MS27183-18	96906	23	15
M5086/2-16-9	81349	12	16	MS27183-18	96906	24	6
M5086/2-16-9	81349	BULK		MS27183-22	96906	2	3
M5086/2-20-9	81349	BULK		MS27183-23	96906	24	2
M5086/2-4-9	81348	11	14	MS27183-6	96906	18	55
M5086/2-4-9	81348	11	26	MS27183-7	96906	3	7
M5086/2-4-9	81348	BULK		MS27183-7	96906	18	16
M5757/23-003	96906	15	7	MS27183-8	96906	22	7
MIL-M-24041	81349	BULK		MS27183-8	96906	23	20
MIL-S-22473	81349	BULK		MS27407-2	96906	25	14
MS15795-918	96906	4	14	MS3367-1-9	96906	BULK	
MS16562-62	96906	16	7	MS3367-5-9	96906	11	19
MS17143-6	96906	18	40	MS3367-5-9	96906	12	6
MS17350C36	96906	4	10	MS3367-5-9	96906	12	12
MS17350C36	96906	26	12	MS3367-5-9	96906	12	17
MS17350C36	96906	26	18	MS3367-5-9	96906	BULK	
MS17830-04C	96906	26	2	MS3368-1-9A	96906	11	20
MS17830-04C	96906	26	8	MS3368-1-9A	96906	12	5
MS17830-04C	96906	26	14	MS3368-1-9A	96906	12	9
MS17830-04C	96906	26	20	MS3368-1-9A	96906	12	19
MS17830-04C	96906	26	26	MS3368-1-9A	96906	BULK	
MS17830-04C	96906	26	32	MS3452W14S-6S	96906	18	28
MS20659-118	96906	1	3	MS3452W18-11S	96906	18	27
MS20659-118	96906	1	8	MS3452W20-27S	96906	18	25
MS21044N3	96906	21	10	MS3452W20-29S	96906	18	30
MS21318-21	96906	4	11	MS3452W22-19S	96906	18	31

APPENDIX G  
ILLUSTRATED LIST OF MANUFACTURED ITEMS

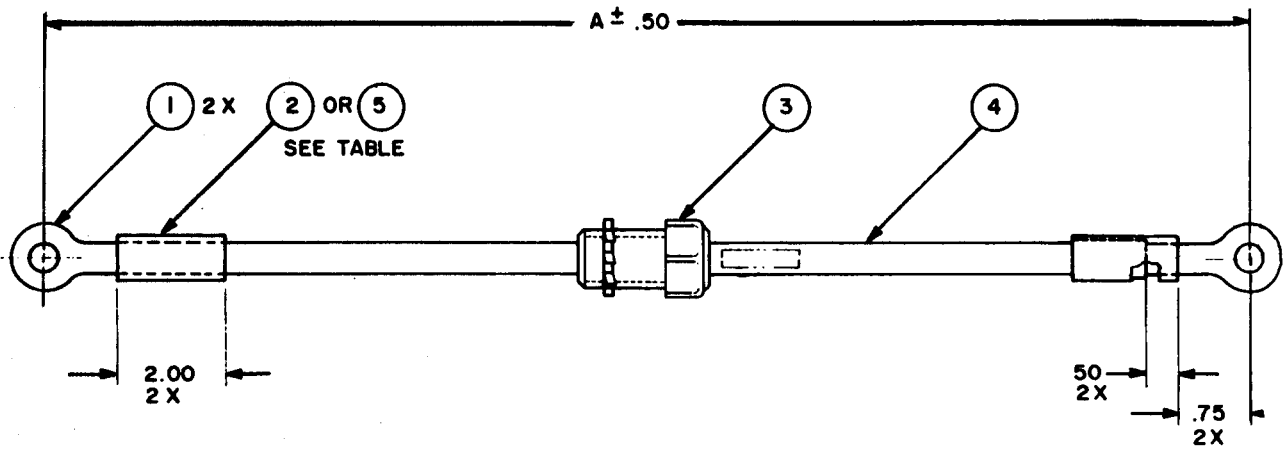
6-1. Scope

This appendix includes complete instructions for making items authorized to be manufactured or fabricated at intermediate direct support maintenance.

G-2. General

All bulk materials needed for manufacture at an item are listed by part number or specification number in a tabular list on the illustration.

G-3. Manufactured Items Illustrations



DASH NO.	DIMENSION A	SLEEVING FIND NO.
-1	90.00	2
-2	84.00	5

Figure G-1. Fabrication of Battery Cables (Sheet 1 of 2)

13228E3368

NOTES :

1. CRIMPED TERMINALS SHALL MEET THE PERFORMANCE REQUIREMENTS OF MIL-T-7928.
2. SLIDE THE STRAIN RELIEF CONNECTOR ONTO THE CABLE BEFORE CRIMPING ON THE TERMINAL-LUGS.
3. ALL DIMENSIONS ARE SHOWN IN INCHES.

PARTS LIST				
FIND NO.	PART OR IDENTIFYING NO.	QTY REQD	NOMENCLATURE OR DESCRIPTION	SPECIFICATION
1	MS20659-118	2	TERMINAL LUG, CRIMP STYLE	
2	MS23053/5-109-2	2	INSULATION SLEEVING, HEAT SHRINKABLE RED	MIL-I-23053/5
3	2535	1	CONNECTOR, STRAIN RELIEF	
4	M13486/1-14	AR	CABLE, COLOR BLK, SIZE 0 WIRE	MIL-C-13486/1
5	M23053/5-109-0	2	INSULATION SLEEVING, HEAT SHRINKABLE, BLK	MIL-I-23053/5

Figure G-1. Fabrication of Battery Cables (Sheet 2 of 2)

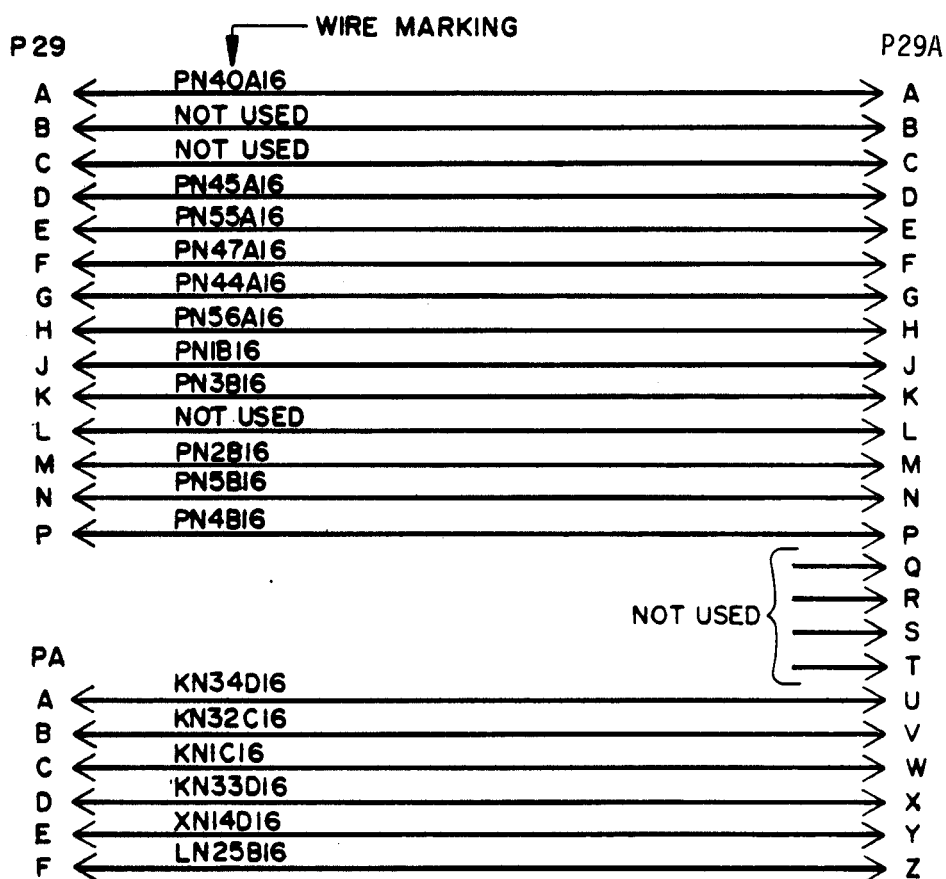
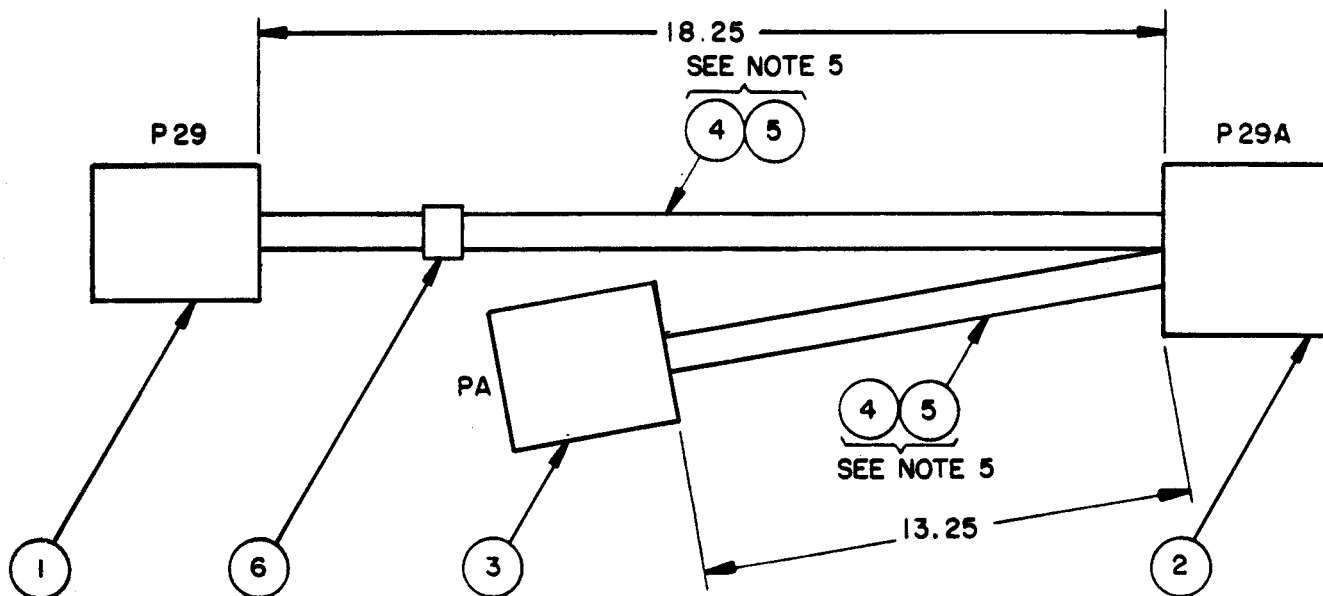


Figure G-2. Fabrication of Special Relay Assembly to Remote Functions Box Assembly Wiring Harness (Sheet 1 of 2)

13228E1911

NOTES:

1. CONNECTOR PLUG SHALL BE STAMPED, AS INDICATED IN ACCORDANCE WITH MIL-STD-130.
2. ALL SOLDERED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-STD-454, REQUIREMENT 5.
3. WIRE MARKING SHALL BE IN ACCORDANCE WITH MIL-W-5088 EXCEPT THAT LENGTH BETWEEN GROUPS OF NUMBERS SHALL NOT EXCEED 6 INCHES.
4. MARK "97403-13228E911" ONTO STRAP, FIND NO. 6 IN ACCORDANCE WITH MIL-STD-130.
5. BUNDLE ALL WIRES IN THE SAME RUN AT THREE INCH INTERVALS USING STRAPS, FIND NO. 5.
6. ALL DIMENSIONS ARE SHOWN IN INCHES.

PARTS LIST				
FIND NO.	PART OR IDENTIFYING NO.	QTY REQD	NOMENCLATURE OR DESCRIPTION	SPECIFICATION
1	MS3106R22-19P	1	CONNECTOR, ELECTRICAL P29	
2	MS3106R24-28P	1	CONNECTOR, ELECTRICAL P29A	
3	MS3106R145-6P	1	CONNECTOR, ELECTRICAL PA	
4	M5086/2-16-9	AR	WIRE, ELECTRICAL, NO. 16 AWG, WHT	MIL-W-5086/2
5	MS3367-5-9	AR	STRAP, TIE DOWN	
6	MS3368-1-9A	1	STRAP, CABLE	
7	SN60WRP2	AR	SOLDER, LEAD-TIN	QS-S-571

Figure G-2. Fabrication of Special Relay Assembly to Remote Functions Box Assembly Wiring Harness (Sheet 2 of 2)

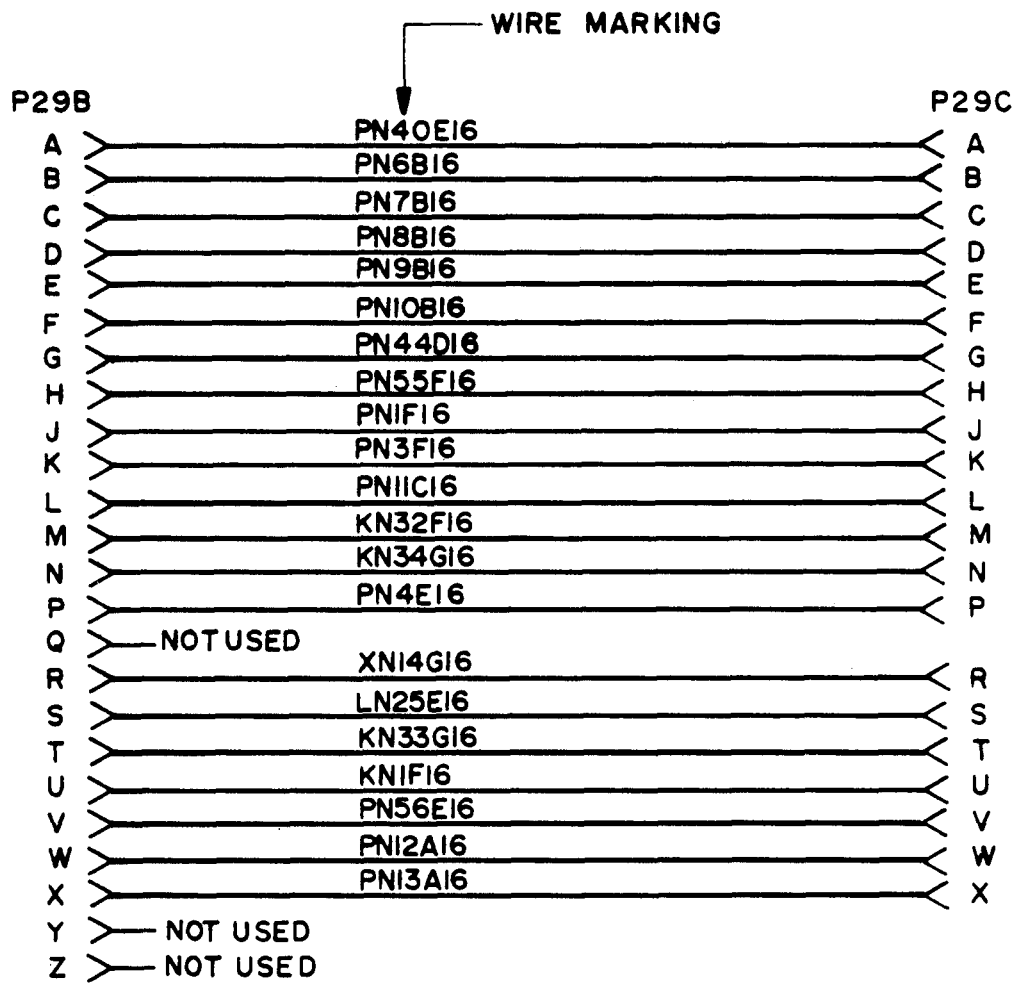
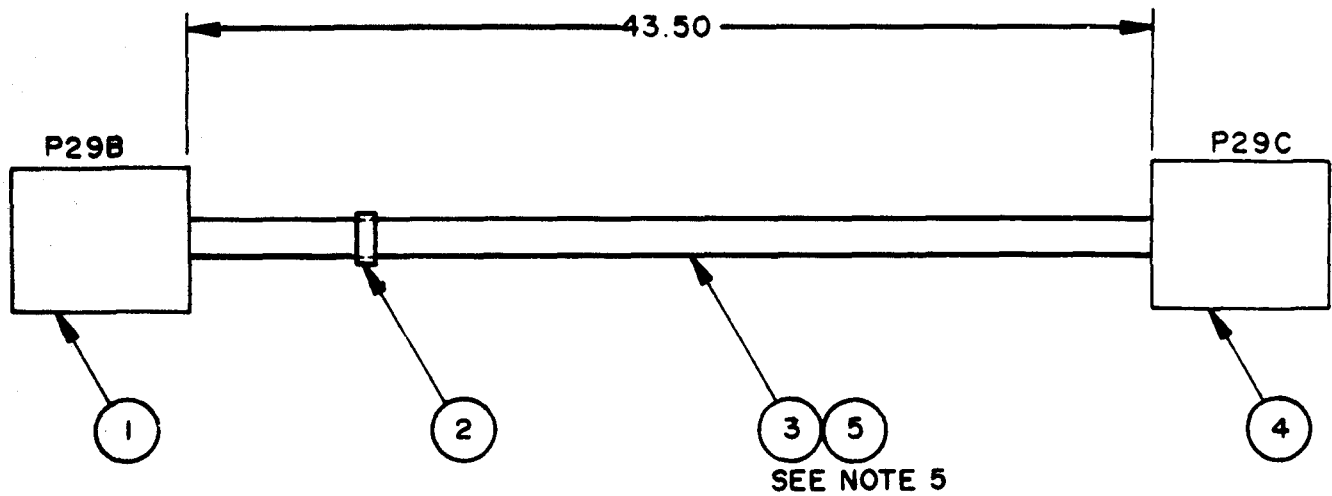


Figure G-3. Fabrication of Remote Functions Box Assembly to Connector Panel Wiring Harness (Sheet 1 of 2)



13228E1910

NOTES :

1. CONNECTOR PLUG SHALL BE STAMPED, AS INDICATED IN ACCORDANCE WITH MIL-STD-130.
2. ALL SOLDERED CONNECTIONS SHALL BE IN ACCORDANCE WITH MIL-STD-454, REQUIREMENT 5.
3. WIRE MARKING SHALL BE IN ACCORDANCE WITH MIL-M-5088 EXCEPT THAT LENGTH BETWEEN GROUPS OF NUMBERS SHALL NOT EXCEED 6 INCHES.
4. MARK "97403-13228E1910" ON TON STRAP, FIND NO. 2 IN ACCORDANCE WITH MIL-STD-130.
5. BUNDLE ALL WIRES IN THE SAME RUN AT THREE INCH INTERVALS USING STRAPS, FIND NO. 5.
6. ALL DIMENSIONS ARE SHOWN IN INCHES.

PARTS LIST				
FIND NO.	PART OR IDENTIFYING NO.	QTY REQD	NOMENCLATURE OR DESCRIPTION	SPECIFICATION
1	MS3106R24-285	1	CONNECTOR, ELECTRICAL P29B	
2	MS3368-1-9A	1	STRAP, CABLE	
3	M5086/2-16-9	AR	WI RE, ELECTRICAL NO. 16 AWG WHT	MIL-W-5086/2
4	D38999/24-F-H-215	1	CONNECTOR, ELECTRICAL P29C	MIL-C-38999/24
5	MS3367-5-9	AR	STRAP, CABLE, ADJUSTABLE	
6	SN60WRP2	AR	SOLDER, LEAD-Ti n	QQ-S-571

Figure G-3. Fabrication of Remote Functions Box Assembly to Connector Panel Wiring Harness (Sheet 2 of 2)

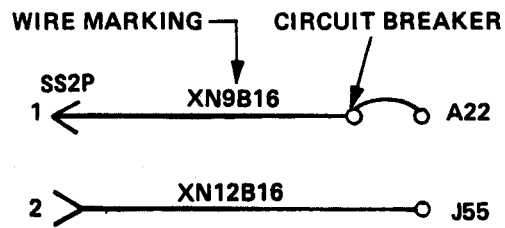
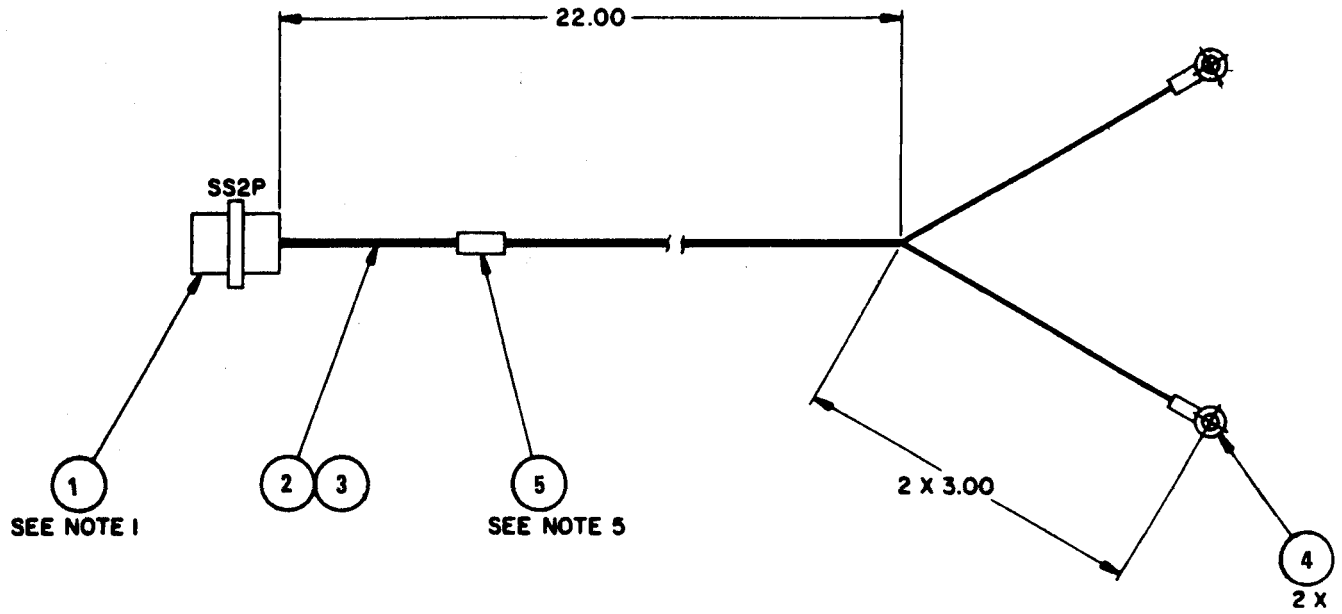


Figure G-4. Fabrication of SS2P to Convenience Receptacle Wiring Harness (Sheet 1 of 2)

13228E1913

NOTES :

1. CONNECTOR PLUG SHALL BE STAMPED, AS INDICATED IN ACCORDANCE WITH MIL-STD-130.
2. CRIMPED TERMINATIONS SHALL MEET THE PERFORMANCE REQUIREMENTS OF MIL-T-7928.
3. WIRE MARKING SHALL BE IN ACCORDANCE WITH MIL-W-5088 EXCEPT THAT LENGTH BETWEEN GROUPS OF NUMBERS SHALL NOT EXCEED 6 INCHES.
4. INSTALL STRAPS, FIND NO. 3 AT 3.00 MAX INTERVALS.
5. MARK "97403-13228E1913" ONTO STRAP, FIND NO. 5 IN ACCORDANCE WITH MIL-STD-130.
6. ALL DIMENSIONS ARE SHOWN IN INCHES.

PARTS LIST				
FIND NO.	PART OR IDENTIFYING NO.	QTY REQD	NOMENCLATURE OR DESCRIPTION	SPECIFICATION
1	13228E1948	1	CONNECTOR, PLUG	
2	M5086/2-16-9	AR	WIRE, ELECTRICAL NO. 16 AWG, WHT	MIL-W-5086/2
3	MS3367-5-9	AR	STRAP, CABLE	
4	MS25036-153	2	TERMINAL, RING, INSULATED NO. 8 STUD SIZE	
5	MS3368-1-9A	1	STRAP, CABLE, ADJUSTABLE	

Figure G-4. Fabrication of SS2P to Convenience Receptacle Wiring Harness (Sheet 2 of 2)

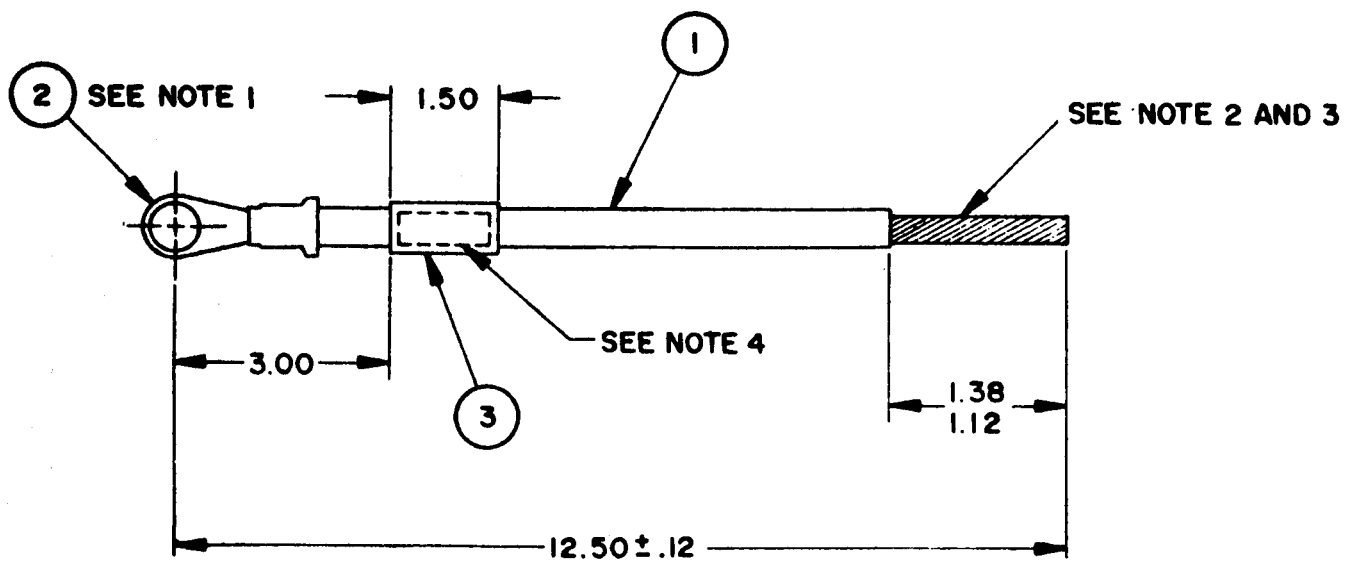


Figure G-5. Fabrication of Ground Wire (Sheet 1 of 2)

13228E1900

NOTES:

1. CRIMP CONNECTION SHALL MEET THE APPLICABLE REQUIREMENTS OF MIL-STD-454, REQUIREMENT 19.
2. REMOVE INSULATION FROM WIRE, FIND NO. 1 AS SHOWN.
3. TIN IN ACCORDANCE WITH MIL-STD-454, REQUIREMENT 5, USING SOLDER, FIND NO. 4.
4. HOT STAMP "97403-13228E1900" IN ACCORDANCE WITH MIL-M-60903.
5. ALL DIMENSIONS ARE SHOWN IN INCHES.

PARTS LIST				
FIND NO.	PART OR IDENTIFYING NO.	QTY REQD	NOMENCLATURE OR DESCRIPTION	SPECIFICATION
1	M5086/2-4-9	AR	WIRE, ELECTRICAL, 4 AWG, WHT	MIL-W-5086/2
2	F-666-12X	1	TERMINAL LUG, 4 AWG, 3/8 STUD SIZE	
3	M23053-5-108-9	1	INSULATION SLEEVING, HEAT SHRINKABLE, WHITE	MIL-I-23053-5
4	SN60WRP2	AR	SOLDER, LEAD-TIN	QQ-S-571

Figure G-5. Fabrication of Ground Wire (Sheet 2 of 2)



APPENDIX H  
 TORQUE LIMITS (IF APPLICABLE)

This appendix will list standard torque values and provide general information and methods for applying torque. Special torque values and sequences will be

indicated in the maintenance procedures for applicable components (see Table H-1).

Table H-1. SELF-LOCKING NUT BREAKAWAY TORQUE VALUES

Thread Size	Minimum Breakaway	Thread Size	Minimum Breakaway
	Torque (In. -Lbs.)		Torque (In. -Lbs.)
10-32	2.0	5/8-18	32.0
1/4-28	<b>3.5</b>	<b>3/4-16</b>	50.0
5/16-24	6.5	7/8-14	70.0
3/8-24	<b>9.5</b>	1-12	90.0
7/16-20	14.0	1-1/8-12	117.0
1/2-20	18.0	1-1/4-12	143.0
9/16-18	24.0		

NOTE

To determine breakaway torque, thread nut onto screw or bolt until at least two threads stick out. Nut shall not make contact with a mating part. Stop the nut. Torque necessary to begin turning nut again is the breakaway torque. Do not reuse self-locking nuts that do not meet minimum breakaway torque.





ALPHABETICAL INDEX

Subject	Para., Table, Figure Number	Subject	Para., Table, Figure Number
A			
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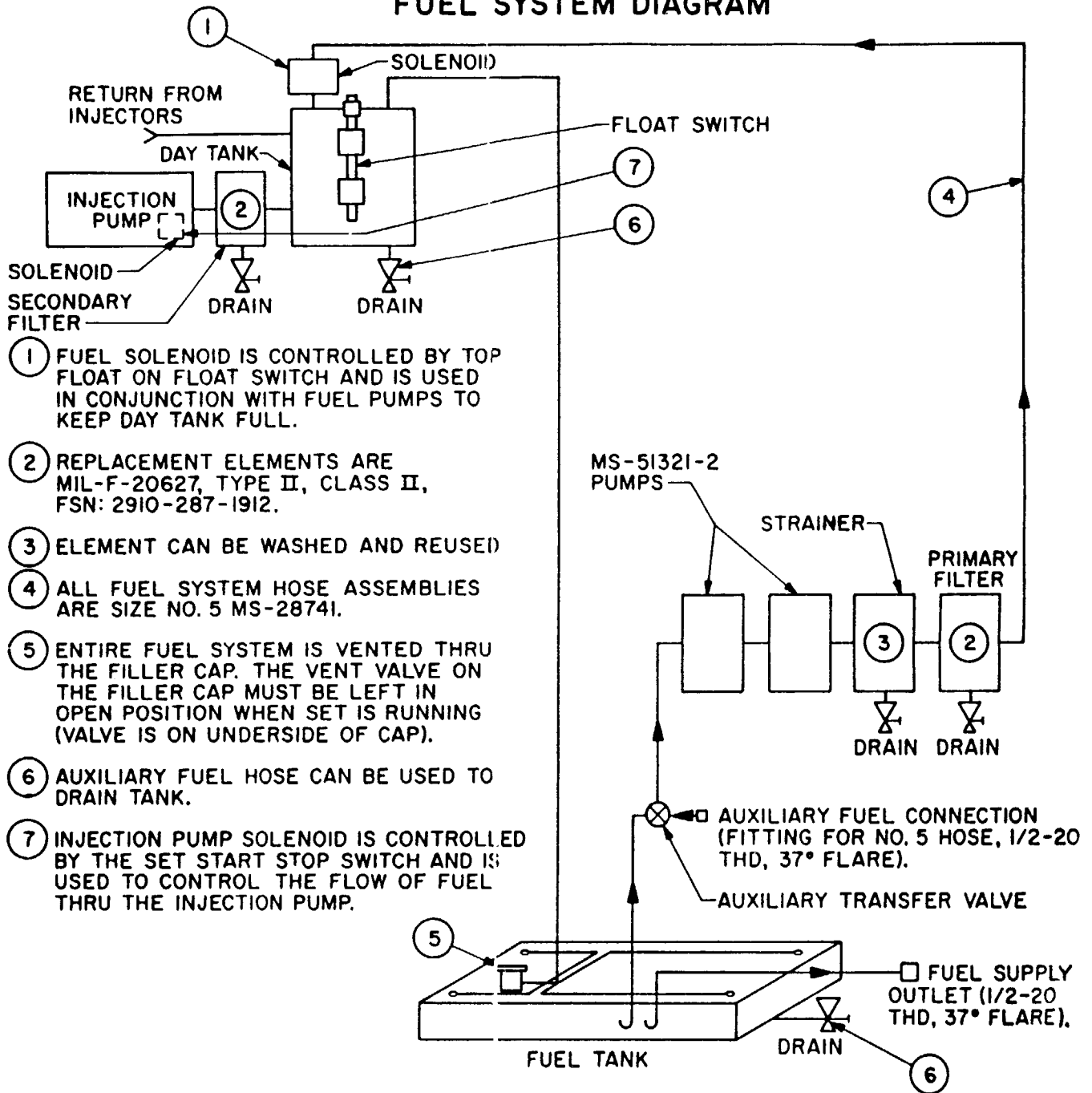






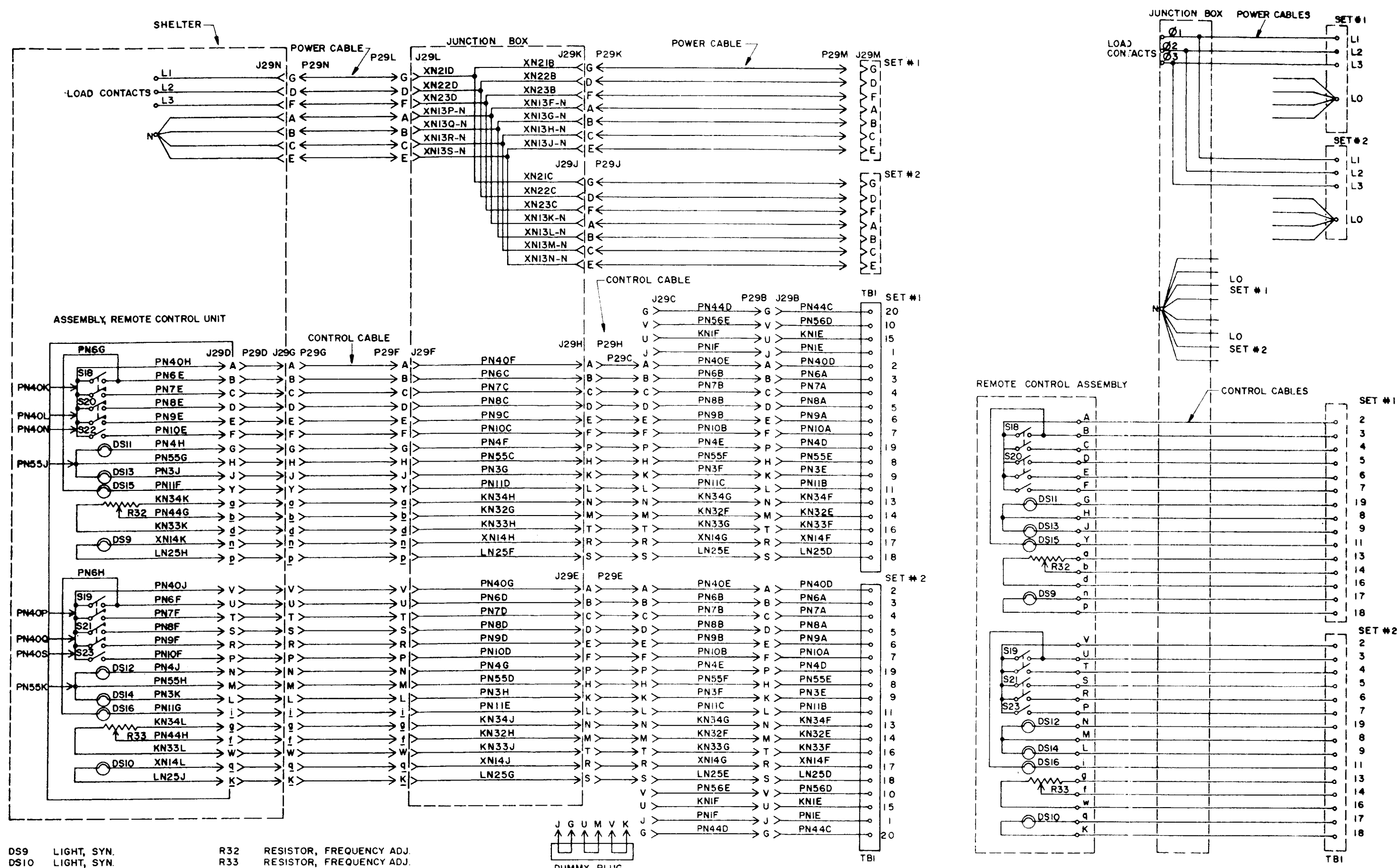


## FUEL SYSTEM DIAGRAM

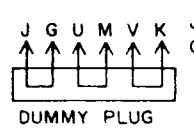


- ① FUEL SOLENOID IS CONTROLLED BY TOP FLOAT ON FLOAT SWITCH AND IS USED IN CONJUNCTION WITH FUEL PUMPS TO KEEP DAY TANK FULL.
- ② REPLACEMENT ELEMENTS ARE MIL-F-20627, TYPE II, CLASS II, FSN: 2910-287-1912.
- ③ ELEMENT CAN BE WASHED AND REUSED
- ④ ALL FUEL SYSTEM HOSE ASSEMBLIES ARE SIZE NO. 5 MS-28741.
- ⑤ ENTIRE FUEL SYSTEM IS VENTED THRU THE FILLER CAP. THE VENT VALVE ON THE FILLER CAP MUST BE LEFT IN OPEN POSITION WHEN SET IS RUNNING (VALVE IS ON UNDERSIDE OF CAP).
- ⑥ AUXILIARY FUEL HOSE CAN BE USED TO DRAIN TANK.
- ⑦ INJECTION PUMP SOLENOID IS CONTROLLED BY THE SET START STOP SWITCH AND IS USED TO CONTROL THE FLOW OF FUEL THRU THE INJECTION PUMP.

FO-1. FUEL SYSTEM DIAGRAM



- |      |                   |     |                          |
|------|-------------------|-----|--------------------------|
| DS9  | LIGHT, SYN.       | R32 | RESISTOR, FREQUENCY ADJ. |
| DS10 | LIGHT, SYN.       | R33 | RESISTOR, FREQUENCY ADJ. |
| DS11 | LIGHT, ENGINE RUN | S18 | SWITCH, START-RUN-STOP   |
| DS12 | LIGHT, ENGINE RUN | S19 | SWITCH, START-RUN-STOP   |
| DS13 | LIGHT, CONTACTOR  | S20 | SWITCH, CONTACTOR        |
| DS14 | LIGHT, CONTACTOR  | S21 | SWITCH, CONTACTOR        |
| DS15 | LIGHT, FUEL LEVEL | S22 | SWITCH, BATTLE SHORT     |
| DS16 | LIGHT, FUEL LEVEL | S23 | SWITCH, BATTLE SHORT     |



FO-2. POWER UNIT SCHEMATIC AND TROUBLESHOOTING DIAGRAMS

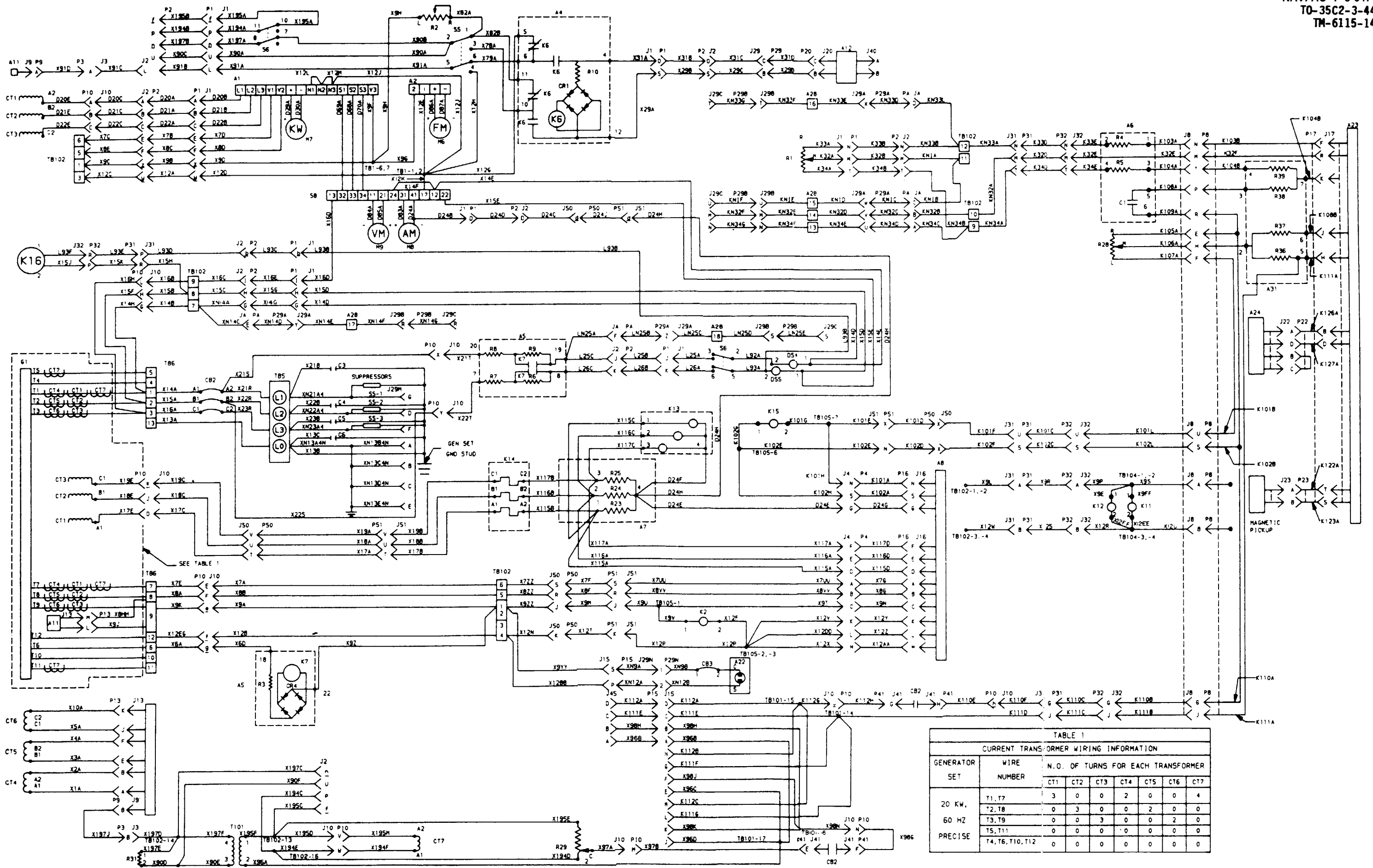


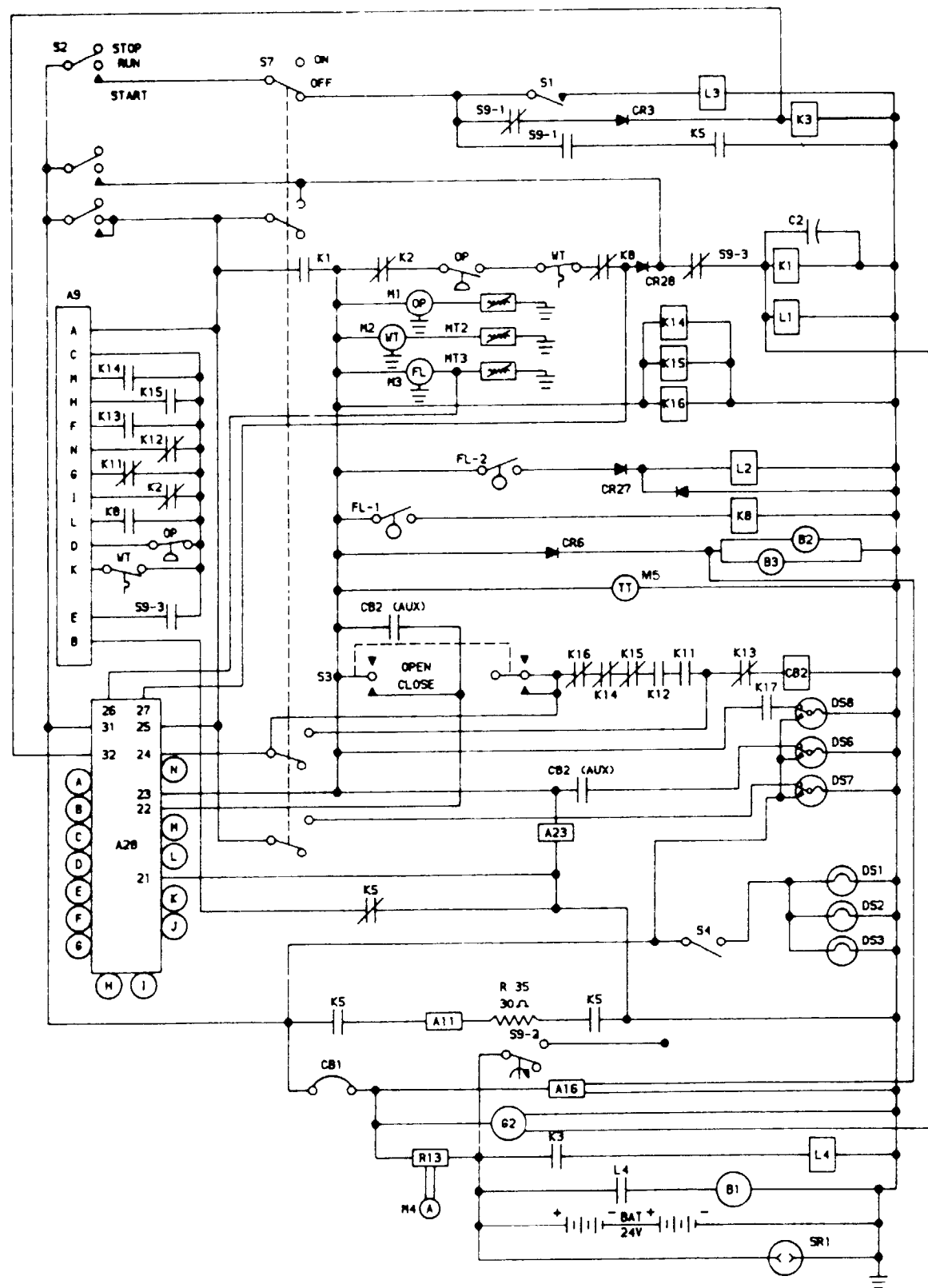
TABLE 1  
 CURRENT TRANSFORMER WIRING INFORMATION

GENERATOR SET	WIRE NUMBER	N. O. OF TURNS FOR EACH TRANSFORMER						
		CT1	CT2	CT3	CT4	CT5	CT6	CT7
20 KW, 60 HZ	T1, T7	3	0	0	2	0	0	4
	T2, T8	0	3	0	0	2	0	0
PRECISE	T3, T9	0	0	3	0	0	0	2
	T5, T11	0	0	0	0	0	0	0
	T4, T6, T10, T12	0	0	0	0	0	0	0

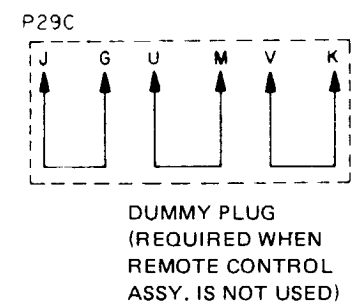
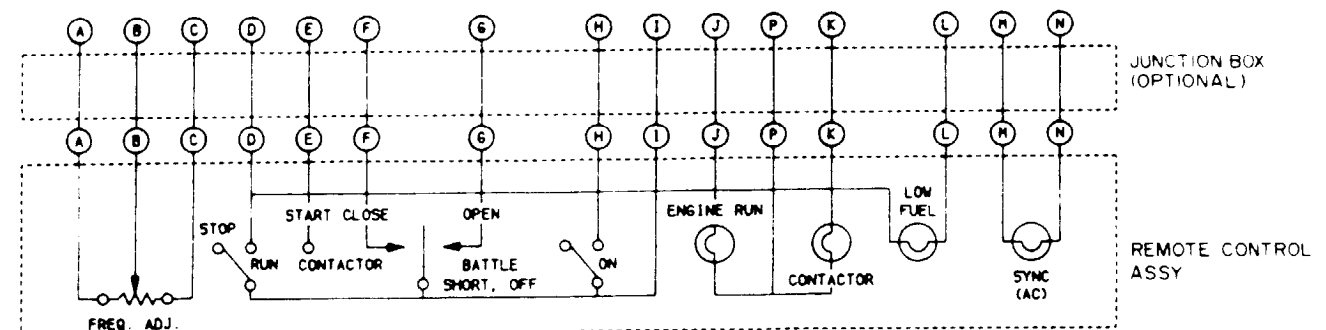
FO-3. GENERATOR SET AC CIRCUITS TROUBLESHOOTING DIAGRAM (SHEET 1 OF 2)

A1	CONVERTOR, THERMAL WATT	K12	RELAY, UNDER FREQUENCY
A2	CONVERTOR, FREQUENCY	K13	RELAY, SHORT CIRCUIT
A4	CONTROL PANEL RELAY ASSEMBLY	K14	RELAY, OVERLOAD
A5	D.C. RELAY ASSEMBLY	K15	RELAY, REVERSE POWER
A6	RESISTOR ASSEMBLY, GOVERNOR	K16	RELAY, PERMISSIVE PARALLELING
A7	RESISTOR ASSEMBLY, C.T. LOAD, R23 R24, R25	M6	METER, FREQUENCY
A8	GOVERNOR, LOAD MEASURING UNIT	M7	METER, KILOWATT
A11	REGULATOR-EXCITER	M8	AMMETER, AC
A12	REMOTE CONTROL BOX	M9	VOLTMETER
A22	CONVENIENCE RECEPTACLE BOX	R1	RHEOSTAT, FREQUENCY ADJUSTING
A23	GOVERNOR CONTROL UNIT	R2	RHEOSTAT, VOLTAGE ADJUSTING
A24	GOVERNOR ACTUATOR	R3	RESISTOR
A28	REMOTE FUNCTION BOX	R4	RESISTOR
A31	LOAD SHARING	R5	RESISTOR
C1	CAPACITOR, GOVERNOR	R6	RESISTOR
C3	CAPACITOR, EMI SUPPRESSION	R7	RESISTOR
C4	CAPACITOR, EMI SUPPRESSION	R8	RESISTOR
C5	CAPACITOR, EMI SUPPRESSION	R9	RESISTOR
C6	CAPACITOR, EMI SUPPRESSION	R10	RESISTOR
CB2	CONTACTOR, AC	R23	RESISTOR, GOVERNOR
CB3	CIRCUIT BREAKER, CONVENIENCE RECEPTACLE	R24	RESISTOR, GOVERNOR
CR1	DIODE, FULL WAVE BRIDGE	R25	RESISTOR, GOVERNOR
CR4	DIODE, FULL WAVE BRIDGE	R28	RHEOSTAT, LOAD SHARING
CT1	TRANSFORMER, CURRENT, INSTRUMENT	R29	RHEOSTAT, REACTIVE CURRENT
CT2	TRANSFORMER, CURRENT, INSTRUMENT	R31	RHEOSTAT, RATE ADJUST, VOLTAGE REGULATOR
CT3	TRANSFORMER, CURRENT, INSTRUMENT	S5	SWITCH, LOCAL-REMOTE VOLTAGE
CT4	TRANSFORMER, CURRENT, EXCITER	S6	SWITCH, UNIT-PARALLEL
CT5	TRANSFORMER, CURRENT, EXCITER	S8	SWITCH, AMMETER, VOLTMETER TRANSFER
CT6	TRANSFORMER, CURRENT, EXCITER	S10	SWITCH, 50/60 HERTZ
CT7	TRANSFORMER, CURRENT, CROSS	SS-1	SURGE SUPPRESSOR
DS4	LIGHT, SYNCHRONIZING	SS-2	SURGE SUPPRESSOR
DS5	LIGHT, SYNCHRONIZING	SS-3	SURGE SUPPRESSOR
G1	GENERATOR	T101	TRANSFORMER, CURRENT, SPECIAL
K2	RELAY, OVER VOLTAGE	T85	TERMINAL BOARD, LOAD
K6	RELAY, REMOTE VOLTAGE SENSING	T86	TERMINAL BOARD, RECONNECTION
K7	RELAY, PARALLEL LIGHTS VOLTAGE SENSOR	T8101	TERMINAL BOARD
K11	RELAY, UNDER VOLTAGE	T8102	TERMINAL BOARD

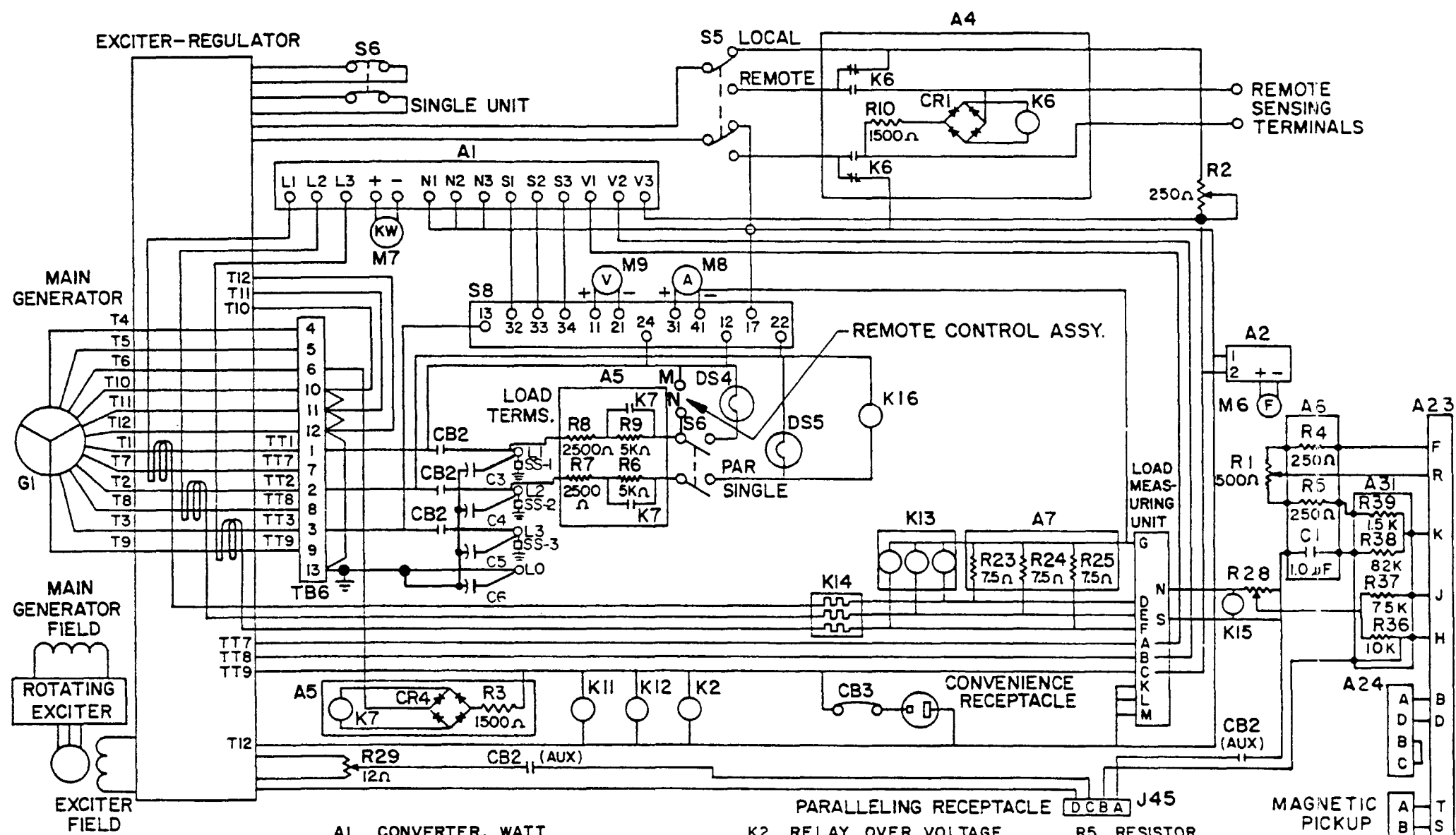
FO-3. GENERATOR SET AC CIRCUITS  
 TROUBLESHOOTING DIAGRAM (SHEET 2 OF 2)



- A9 FAULT, INDICATOR SYSTEM
- A11 EXCITER, STATIC
- A16 HEATER, CONTROL BOX
- A23 GOVERNOR CONTROL UNIT
- A28 REMOTE FUNCTION BOX
- B1 MOTOR, STARTER
- B2 PUMP, FUEL
- B3 PUMP, FUEL
- C2 CAPACITOR
- CB1 CIRCUIT BREAKER, DC
- CB2 CONTACTOR, AC
- CR3 DIODE
- CR6 DIODE
- CR27 RECTIFIER ASSEMBLY
- CR28 DIODE, BLOCKING
- DS1 LIGHT, PANEL
- DS2 LIGHT, PANEL
- DS3 LIGHT, PANEL
- DS6 LIGHT, INDICATOR, CIRCUIT BREAKER
- DS7 LIGHT, PROTECTION BYPASS
- DS8 LIGHT, INDICATOR, AIR CLEANER
- G2 BATTERY CHARGING ALTERNATOR
- K1 RELAY, STOP-RUN
- K2 RELAY, OVER VOLTAGE
- K3 RELAY, CRAWL
- K5 RELAY, FIELD FLASH
- K8 RELAY, FUEL LEVEL
- K11 RELAY, UNDER VOLTAGE
- K12 RELAY, UNDER FREQUENCY
- K13 RELAY, SHORT CIRCUIT
- K14 RELAY, OVERLOAD
- K15 RELAY, REVERSE POWER
- K16 RELAY, PERMISSIVE PARALLELING
- K17 SWITCH, AIR CLEANER RESTRICTION
- L1 SOLENOIDS, ENGINE FUEL
- L2 SOLENOIDS, DAY TANK
- L3 SOLENOIDS, ETHER
- L4 SOLENOIDS, STARTER
- M1 METER, OIL PRESSURE
- M2 METER, COOLANT TEMPERATURE
- M3 METER, FUEL LEVEL
- M4 AMMETER, BATTERY CHARGING
- M5 METER, TOTAL TIME
- MT1 TRANSDUCER, OIL PRESSURE
- MT2 TRANSDUCER, COOLANT TEMPERATURE
- MT3 TRANSDUCER, FUEL LEVEL
- R13 SHUNT, INSTRUMENT
- R35 RESISTOR, FIELD FLASH
- FL-1 SWITCH, FUEL LEVEL
- FL-2 SWITCH, FUEL LEVEL
- OP SWITCH, OIL PRESSURE
- WT SWITCH, COOLANT TEMPERATURE
- S1 SWITCH, ENGINE PRIMER
- S2 SWITCH, START-RUN-STOP
- S3 SWITCH, CONTACTOR
- S4 SWITCH, PANEL LIGHTS
- S7 SWITCH, BATTLE SHORT
- S9-1 START-DISCONNECT AND FIELD FLASH
- S9-2 NOT USED
- S9-3 OVERSPEED
- SR1 RECEPTACLE SLAVE



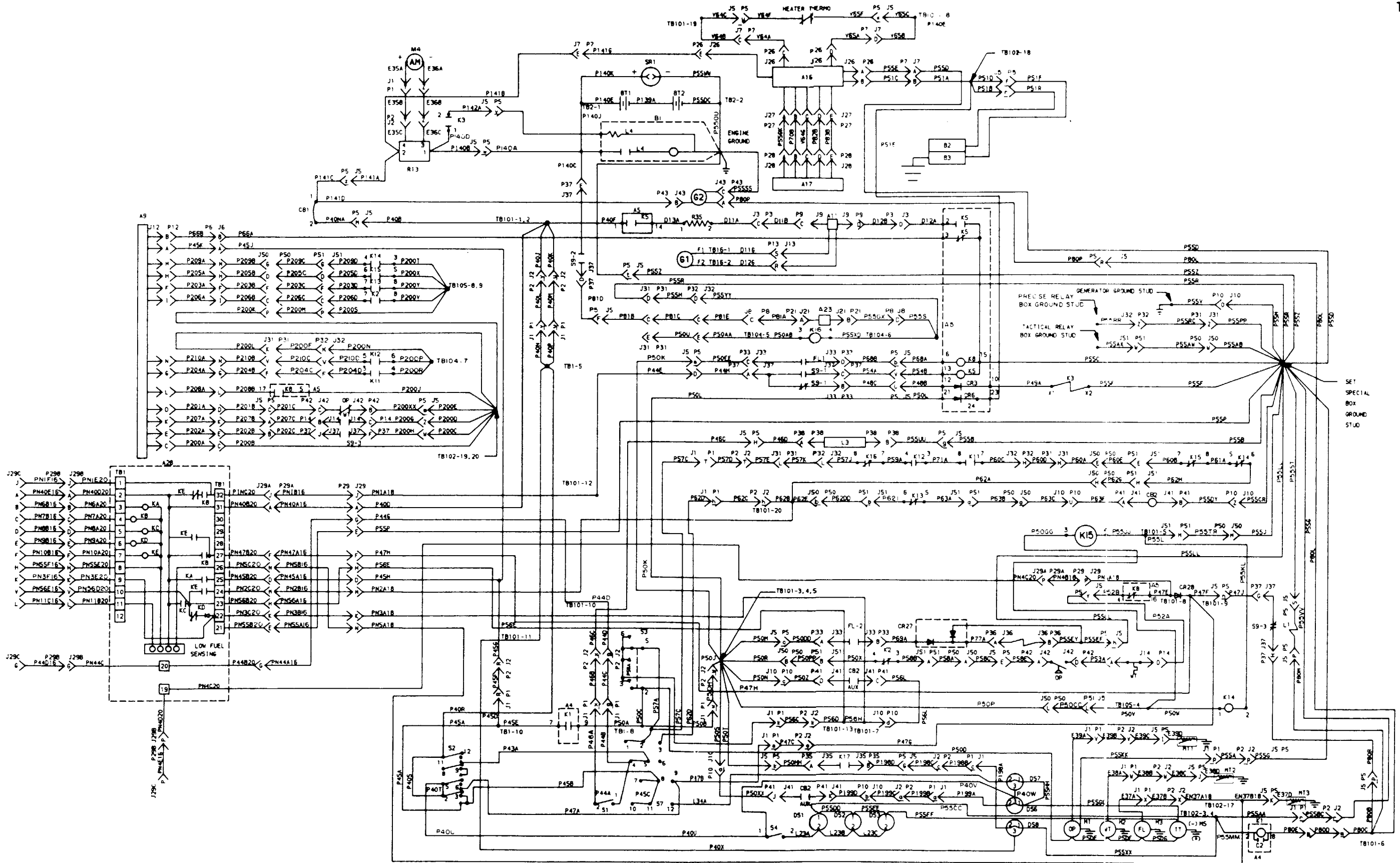
FO-4. GENERATOR SET DC CIRCUITS  
 SCHEMATIC DIAGRAM



- A1 CONVERTER, WATT
- A2 CONVERTER, FREQUENCY
- A4 CONTROL PANEL RELAY ASSEMBLY
- A5 DC RELAY ASSEMBLY
- A6 RESISTOR ASSEMBLY GOVERNOR
- A7 RESISTOR ASSEMBLY, CT. LOAD, R23, 24, 25
- A23 GOVERNOR CONTROL UNIT
- A24 GOVERNOR ACTUATOR
- A31 LOAD SHARING
- C1 CAPACITOR
- CB2 CONTACTOR, AC
- CB3 CIRCUIT BREAKER, CONVENIENCE RECEPTACLE
- CR1 DIODE, FULL WAVE BRIDGE
- CR4 DIODE, FULL WAVE BRIDGE
- DS4 LIGHT, SYNCHRONIZING
- DS5 LIGHT, SYNCHRONIZING
- G1 GENERATOR
- K2 RELAY, OVER VOLTAGE
- K6 RELAY, REMOTE VOLTAGE SENSING
- K7 RELAY, PAR LIGHTS VOLTAGE SENSOR
- K11 RELAY, UNDER VOLTAGE
- K12 RELAY, UNDER FREQUENCY
- K13 RELAY, SHORT CIRCUIT
- K14 RELAY, OVERLOAD
- K15 RELAY, REVERSE POWER
- K16 RELAY, PERMISSIVE PARALLELING
- M6 METER, FREQUENCY
- M7 METER, KILOWATT
- M8 AMMETER, AC
- M9 VOLT METER
- R1 RHEOSTAT, FREQUENCY ADJUSTING
- R2 RHEOSTAT, VOLTAGE ADJUSTING
- R3 RESISTOR
- R4 RESISTOR
- R5 RESISTOR
- R6 RESISTOR
- R7 RESISTOR
- R8 RESISTOR
- R9 RESISTOR
- R10 RESISTOR
- R28 RHEOSTAT, LOAD SHARING
- R29 RHEOSTAT, REACTIVE CURRENT
- R36-R39 RESISTOR, LOAD SHARING
- S5 SWITCH, LOCAL-REMOTE VOLTAGE
- S6 SWITCH, UNIT PARALLEL
- S8 SWITCH, AMMETER-VOLTMETER TRANSFER
- SS-1 SURGE SUPPRESSION
- SS-2 SURGE SUPPRESSION
- SS-3 SURGE SUPPRESSION
- TB6 TERMINAL BOARD, RECONNECTION
- C3 CAPACITOR, EMI SUPPRESSION
- C4 CAPACITOR, EMI SUPPRESSION
- C5 CAPACITOR, EMI SUPPRESSION
- C6 CAPACITOR, EMI SUPPRESSION

TB6		
TERMINALS CONNECTED TOGETHER		
120/208 VOLT CONNECTION	240/416 VOLT CONNECTION	4-7
1-7	4-10	4-7
2-8	5-11	5-8
3-9	6-12	6-9

FO-5. GENERATOR SET AC CIRCUITS SCHEMATIC DIAGRAM



FO-6. GENERATOR SET DC CIRCUITS  
 TROUBLESHOOTING DIAGRAM (SHEET 2 OF 2)

A4	CONTROL PANEL RELAY ASSEMBLY	K13	RELAY, SHORT CIRCUIT
A5	D.C. RELAY ASSEMBLY	K14	RELAY, OVERLOAD
A9	FAULT INDICATOR SYSTEM	K15	RELAY, REVERSE POWER
A11	REGULATOR-EXCITER	K16	RELAY, PERMISSIVE PARALLELING
A12	REMOTE CONTROL BOX	K17	SWITCH, AIR CLEANER RESTRICTION
A16	HEATER CONTROL BOX	L1	ENGINE FUEL SOLENOID
A17	FUEL FIRED WINTERIZATION HEATER	L2	DAY TANK, SOLENOID
A23	GOVERNOR CONTROL UNIT	L3	ETHER SOLENOID
A28	REMOTE FUNCTION BOX	L4	STARTER SOLENOID
B1	STARTER MOTOR	M1	METER, OIL PRESSURE
B2	FUEL PUMP	M2	METER, COOLANT TEMPERATURE
B3	FUEL PUMP	M3	METER, FUEL LEVEL
BT1, BT2	BATTERIES	M4	AMMETER, BATTERY CHARGING
C2	CAPACITOR	M5	METER, TOTAL TIME
CB1	CIRCUIT BREAKER, DC	MT1	TRANSDUCER, OIL PRESSURE
CB2	CONTACTOR, AC	MT2	TRANSDUCER, COOLANT TEMPERATURE
CR3	DIODE	MT3	TRANSDUCER, FUEL LEVEL
CR4	DIODE	OP	SWITCH, OIL PRESSURE
CR27	RECTIFIER ASSEMBLY	R13	RESISTOR, SHUNT, INSTRUMENT
CR28	DIODE, BLOCKING	R35	RESISTOR
DS1	LIGHT, PANEL	S1	SWITCH, ENGINE PRIMER
DS2	LIGHT, PANEL	S2	SWITCH, START-RUN-STOP
DS3	LIGHT, PANEL	S3	SWITCH, CONTACTOR
DS6	LIGHT, INDICATOR, CIRCUIT BREAKER	S4	SWITCH, PANEL LIGHTS
DS7	LIGHT, PROTECTION BYPASS	S7	SWITCH, BATTLE SHORT
DS8	LIGHT, INDICATOR, AIR CLEANER	S9-1	START DISCONNECT AND FIELD FLASH
FL-1	SWITCH, FUEL LEVEL	S9-2	GOVERNOR ON-OFF
FL-2	SWITCH, FUEL LEVEL	S9-3	OVERSPEED
G1	GENERATOR	SR1	RECEPTACLE SLAVE
G2	BATTERY CHARGING ALERNATOR	TB16	TERMINAL BOARD, FIELD LEAD
K1	RELAY, STOP-RUN	TB1	TERMINAL BOARD, CONTROL CUBICLE
K2	RELAY, OVERVOLTAGE	TB2	TERMINAL BOARD, BATTERY LEAD
K3	RELAY, CRANK	TB101	TERMINAL BOARD, SPECIAL RELAY BOX
K5	RELAY, FIELD FLASH	TB102	TERMINAL BOARD, SPECIAL RELAY BOX
K8	RELAY, FUEL LEVEL	TB104	TERMINAL BOARD, PRECISE RELAY BOX
K11	RELAY, UNDERVOLTAGE	TB105	TERMINAL BOARD, TACTICAL RELAY BOX
K12	RELAY, UNDER FREQUENCY	WT	SWITCH, COOLANT TEMPERATURE

FO-6. GENERATOR SET DC CIRCUITS  
 TROUBLESHOOTING DIAGRAM (SHEET 1 OF 2)



ARMY TECHNICAL MANUAL  
NAVY PUBLICATION  
AIR FORCE TECHNICAL ORDER  
MARINE CORPS TECHNICAL MANUAL

TM 5-6115-634-14&P  
NAVFAC P-8-647-14&P  
T0-35C2-3-445-14  
TM-6115-14&P/1

**By Order of the Secretaries of the Army, the Navy, and the Air Force:**

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**DISTRIBUTION:**

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



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THEN... JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT. FOLD IT AND DROP IT IN THE MAIL!

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

PFC JOHN DOE  
COA, 3d ENGINEER BN  
FT. LEONARDWOOD, MD 63108

DATE SENT

PUBLICATION NUMBER

TM 5-6115-634-14&P

PUBLICATION DATE

16 Aug 1988

PUBLICATION TITLE

Power Unit, Diesel Engine  
Driven, Trailer Mounted, 20 KW

BE EXACT. PIN-POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO
6	2-1 a		
B1		4-3	
125	line 20		

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

In line 6 of paragraph 2-1a the manual states the engine has 6 cylinders. The engine on my set only has 4 cylinders. Change the manual to show 4 cylinders.

Callout 16 on figure 4-3 is pointing at a bolt. In key to figure 4-3, item 16 is called a shim - Please correct one or the other.

I ordered a gasket, item 19 on figure B-16 by NSN 2 910-00-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

JOHN DOE, PFC (268) 317-7111

SIGN HERE

JOHN DOE

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TEAR ALONG PERFORATED LINE



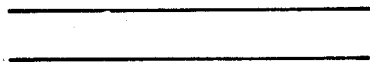


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TEAR ALONG DOTTED LINE

FOLD BACK

# The Metric System and Equivalents

## Linear Measure

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 dekameter = 10 meters = 32.8 feet  
 1 hectometer = 10 dekameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

## Weights

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigram = .035 ounce  
 1 dekagram = 10 grams = .35 ounce  
 1 hectogram = 10 dekagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short tons

## Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

## Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet  
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

## Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

## Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

## Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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