## TECHNICAL MANUAL

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

POWER PLANT
AN/MJQ-16 (NSN 6115-00-033-1395)
(2) MEP-002A 5 KW 60 HZ
GENERATOR SETS
M103A3 2-WHEEL, 2-TIRE,
MODIFIED TRAILER

Approved for public release; distribution is unlimited.

This manual supersedes Chapter 13 of TM 5-6115-594-14&P dated 25 September 1984.

CHANGE

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, D C, 3 September 1996

NO 4

Operator, Unit, Intermediate Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools Lists)

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### WARNING

All specific cautions and warnings contained in this manual shall be strictly adhered to. Otherwise, severe injury, death and/or damage to the equipment may result.

#### HIGH VOLTAGE

is produced when this power plant is in operation.

#### DEATH

or severe burns may result if personnel fail to observe safety precautions. Do not operate this power plant until the ground terminal stud has been connected to a suitable ground. Disconnect the battery ground cable on the generator sets before removing and installing components on the engine or in the electrical control panel system. Remove all rings, watches, and other jewelry when performing maintenance on this equipment. Loose fitting clothing should be secured to prevent it catching in moving parts. Do not attempt to service or otherwise make any adjustments, connections or reconnection of wires or cables until generator sets are shut down and completely de-energized.

#### **DANGEROUS GASES**

Batteries generate explosive gas during charging: therefore, utilize extreme caution. Do not smoke, or use open flame in the vicinity of the generator set when servicing batteries.

Exhaust discharge contains noxious and deadly fumes. Do not operate power plant generator sets in enclosed areas unless exhaust discharge is properly vented to the outside.

To avoid sparking between filler nozzle and fuel tank, always maintain metal to metal contact between filler nozzle and fuel tank when filling generator set fuel tanks.

Do not smoke or use open flame in the vicinity of the power plant while fueling generator sets.

#### LIQUIDS UNDER HIGH PRESSURE

are generated as a result of operation of the power plant generator sets. Do not expose any part of the body to a high pressure leak in the fuel injection system.

## NOISE

Operating noise level of a generator set can cause hearing damage. Ear protectors, as recommended by the medical or safety officer, must be worn when working near this power plant.

## WARNING

Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes and prolonged exposure of skin to cleaning solvent. Wash exposed skin thoroughly. Dry cleaning solvent (P-D-680) used to clean parts is potentially dangerous to personnel and property. Do not smoke or use near open flame or excessive heat. Flash point of solvent is 100°F. to 138°F. (38°C. to 59°C.).







## SAFETY STEPS TO FOLLOW IF SOMEONE IS THE VICTIM OF ELECTRICAL SHOCK

DO NOT TRY TO PULL OR GRAB THE INDIVIDUAL

IF POSSIBLE, TURN OFF THE ELECTRICAL POWER

IF YOU CANNOT TURN OFF THE ELECTRICAL POWER, PULL, PUSH, OR LIFT THE PERSON TO SAFETY USING A WOODEN POLE OR A ROPE OR SOME OTHER INSULATING MATERIAL

SEND FOR HELP AS SOON AS POSSIBLE

AFTER THE INJURED PERSON IS FREE OF CONTACT WITH THE SOURCE OF ELECTRICAL SHOCK, MOVE THE PERSON A SHORT DISTANCE AWAY AND IMMEDIATELY START ARTIFICIAL RESUSCITATION

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, D.C., 24 June 1988

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#### 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%/oavma28@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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<sup>\*</sup>This manual supersedes Chapter 13 of TM 5-6115-594-14&P dated 25 September 1984.

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#### **CHAPTER 1**

#### INTRODUCTION

#### **SECTION I. GENERAL**

- **1-1. Scope.** This manual is for your use in operating and maintaining the Power Plant, AN/MJQ-16. The AN/MJQ- 16 is a mobile power plant used to supply power to any system or equipment requiring up to 5 kW of 60 Hz input operating power. In addition to operating instructions and operator, unit, and intermediate direct support and general support maintenance procedures, this manual contains a Repair Parts and Special Tools List for the power plant.
- **1-2. Limited Applicability.** Some portions of this publication are not applicable to both services. These portions are prefixed to indicate the service to which they pertain: (A) for Army, and (F) for Air Force Portions not prefixed are applicable to both services.

#### 1-3. Maintenance Forms and Records.

- a. (A) Maintenance forms and records used by Army personnel are prescribed by DA Pam 738-750.
- (F) Maintenance forms and records used by Air Force personnel are prescribed in AFM66-1 and the applicable 00-20 Series Technical Orders.
- **1-4. Reporting of Errors.** Reporting of errors and omissions and recommendations for improvement of this publication by the individual user is encouraged. Reports should be submitted as follows: a. (
  - a. (A) ARMY DA Form 2028 directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MT, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798..
  - **b.** (F) Air Force AFTO Form 22 directly to: Commander, Sacramento Air Logistics Center, ATTN: SM-ALC-MMEDTA, McAllen Air Force Base, CA, 95652-5609, in accordance with TO-00-5-1.
- **1-5. Reporting Equipment Improvement Recommendations** (EIR). EIR's will be prepared using SF 368, Product Quality Deficiency Report. Instructions for preparing EIR's are provided in DA PAM 738-750, The Army Maintenance Management System. EIR's should be mailed directly to: Commander, US Army Aviation and Troop Support Command, ATTN: AMSAT-I-MDO, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798.

#### 1-6. Levels of Maintenance Accomplishment.

- a. (A) Army users shall refer to the Maintenance Allocation Chart (MAC) for tasks and levels of maintenance to be performed.
- (F) Air Force users shall accomplish maintenance at the user level consistent with their capability in accordance with policies established in AFM 66-1.
- **1-7. Destruction of Army Materiel.** Destruction of Army materiel to prevent enemy use shall be in accordance with TM 750-244-3.

Change 4 1-1

#### 1-8. Administrative Storage.

- a. Army equipment placed in administrative storage will have preventive maintenance performed in accordance with the PMCS tables before storage. When equipment is removed from storage, PMCS will be performed to ensure operational readiness.
- b. (F) For administrative storage procedures for Air Force equipment, refer to TO 35-1-4, Processing and Inspection of Aerospace Ground Equipment for Storage and Shipment.

## 1-9. Preparation for Shipment and Storage.

- a. (A) Army Refer to TB 740-97-2.
- b. (F) Air Force Refer to TO 35-1-4 for component of end item generator sets and TO 38-1-5 for installed engine.

## Section II. DESCRIPTION AND DATA

**1-10. Description.** Power Plant AN/MJQ-16 is made up of two Tactical Utility Generator Sets, DOD Model MEP-002A, mounted on a single modified M103A3 trailer. These generator sets are aircooled, diesel engine-driven units, each with a load capacity of 5 KW at 60 Hz. The trailer is a two-wheeled unit with a I-1/2-ton carrying capacity. The modifications to the basic trailer provide stowage for the accessories and all equipment necessary for mobile operation as well as providing a work platform for the operator and maintenance personnel. Output from the power plant is applied to the system or equipment being powered through a switch box. The AN/MJQ-16 is supplied with either a 4-wire or a 5-wire configuration switch box. Figures 1-1 and 1-2 illustrate the power plant with the fitted cover removed to show the generator sets.

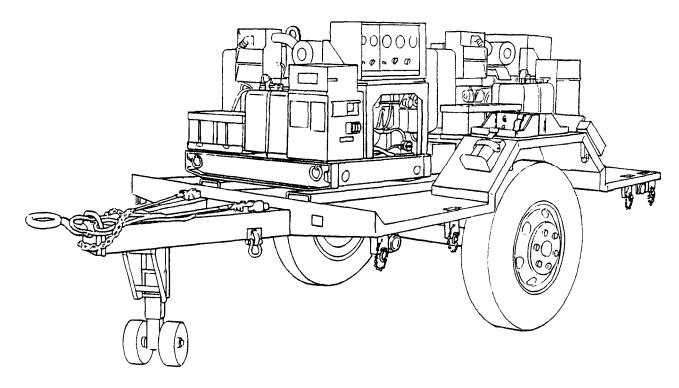


Figure 1-1. Power Plant, Roadside Front, Three-Quarter View.

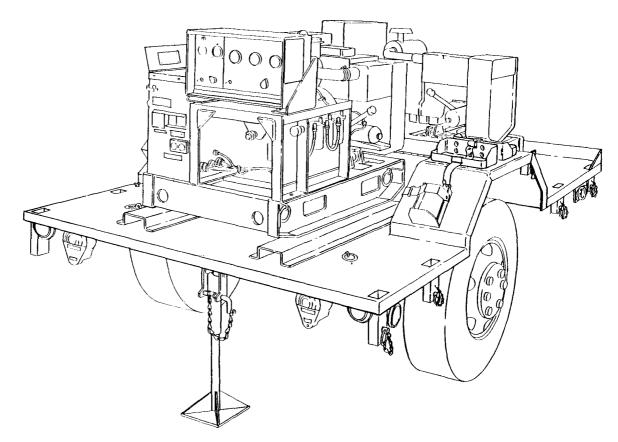


Figure 1-2. Power Plant, Curbside Rear, Three-Quarter View.

**1.11. Tabulated Data.** The tabulated data provides operator and unit level personnel with the dimensions and weights for Power Plant, AN/MJQ-16. These specifications are computed from the combined dimensions and weights of the generator sets and trailer as modified for use with the power plant. Specifications of the individual components can be found in their respective technical publications. For additional information concerning Generator Set, DOD Model MEP-002A, refer to TM 5-6115-584-12 and – 34. For additional information on the M103A3 trailer, refer to TM 9-2330-213-14&P. The tabulated data also includes the location and content of all data plates unique to the power plant.

## a. Identification and Instruction Plates.

- (1) Power plant identification plssate.
- (a) Location. This plate is located on the front roadside frame between the trailer body and the drawbar ring.
  - (b) Content.

US POWER PLANT, ELECTRIC AN/MJQ-16 KW 5 HERTZ 60 NSN 6115-00-033-1395

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- (2) Trailer ground terminallidentification plate.
- (a) Location. This plate is located next to the ground stud on the rear, roadside corner of the trailer bed.
  - (b) Content.

#### **GROUND TERMINAL**

- (3) Wiring diagram information p/ate.
  - (a) Location. This plate is mounted inside the switch box.
  - (b) Content. (See figure 4-7 or 4-8).
- (4) Switch box AC ground information p/ate.
- (a) Location. This plate is located on the outboard side of the switch box next to ground terminal E2.
  - (b) Content.

AC GROUND

- (5) Switch box equipment ground information plate.
  - (a) Location. This plate is located next to ground terminal E1 on the rear of the switch box.
  - (b) Content.

EQUIPMENT (FRAME) GROUND

- (6) Warning plate.
  - (a) Location. This plate is located on the switch box terminal board cover.
  - (b) Content.

DANGER HIGH VOLTAGE

b. Tabulated Data for Power Plant.

Overall Length Overall Width Overall Height Net Weight (empty) Net Weight (filled) Shipping Weight Cubage 171.5 inches (435.6 centimeters)
83 inches (210.8 centimeters)
95 inches (241.3 centimeters)
4,690 pounds (2127 kilograms)
4,770 pounds (2163 kilograms)
4,960 pounds (2249 kilograms)
799 cubic feet (22.69 cubic meters)

**1-12. Differences Between Models.** There are no differences between models, serial numbers, or serial number groups applicable to this equipment.

## **CHAPTER 2**

## **OPERATING INSTRUCTIONS**

#### Section 1. OPERATING PROCEDURES

- **2-1. Operating Procedures.** Before the power plant generators are started and operated, the power plant is towed to a worksite and installed. Installation instructions are provided in paragraph 4-2. Instructions for dismantling the power plant for movement are given in paragraph 4-3.
- a. <u>Generator Set Operating Procedures.</u> Detailed prestarting, startup, operating and shutdown procedures for the generator sets can be found on the Operating Instructions data plate located on the right hand side of each generator set control cubicle, and in the generator set technical manual, TM 5-6115-584-12.

## WARNING

Do not operate power plant until it is properly grounded (paragraph 4-2, b). Serious injury or death by electrocution can result from operating an ungrounded generator set.

Operating noise level of the generator sets can cause hearing damage. Ear protectors, as recommended by medical or safety officer, must be worn when working near power plant.

## CAUTION

To avoid damage to equipment, make certain of voltage, frequency, and phase requirements of load connected to generator sets.

## NOTE

Make sure generator set circuit breakers and switch box rotary switch are in OFF position before proceeding.

Before starting generator set, do your Before PMCS as described in table 3-2.

## b. Switch Box Operating Procedures.

- (1) Single generator set operation. Use the switch box to operate only one generator set as follows:
  - (a) Make sure power and ground cables are connected to generator set and switch box.
  - (b) Turn generator set on and bring it up to rated speed, voltage and frequency. (Refer to TM 5-6115-584-12.)
  - (c) Close generator set circuit breaker (move to ON position).
  - (d) Turn rotary switch on switch box to GEN 1 or GEN 2 position, as applicable.

#### TM 5-6115-631-14&P

- (e) To stop operation, move rotary switch and generator set circuit breaker to OFF position. Turn generator set off. (Refer to TM 5-6115-584-12.)
- (2) Dual generator set operation, Use the switch box to alternately operate both generator sets as follows:
  - (a) Make sure power and ground cables are connected to switch box and both generator sets.
  - (b) Select first generator set to be used and bring it into operation in accordance with paragraph 2-1, b (1), steps (b) through (d).
  - (c) Turn second generator set on and bring it up to rated speed, voltage and frequency. (Refer to TM 5-6115-584-12.) Close circuit breaker (move to ON position).
  - (d) Move switch box rotary switch to GEN position corresponding to second generator set.
  - (e) Open circuit breaker on first generator set (move to OFF position) and turn generator set off. (Refer to TM 5-6115-584-12.)
  - (t) To stop operation, move rotary switch to OFF position and open circuit breaker on generator set still running. Turn generator set off. (Refer to TM 5-6115-584-12.)
- c. Trailer Operating Procedures. Refer to TM9-2330-213-14&P for specific operating procedures for the M103A3 trailer.

#### Section II. OPERATING OF AUXILIARY EQUIPMENT

**2.2. Operation of Auxiliary Equipment.** There is no auxiliary equipment supplied with the power plant.

## Section III. OPERATION UNDER UNUSUAL CONDITIONS

- **2.3. Operation Under Unusual Conditions.** When operating the power plant under unusual conditions such as extremes in temperature or difficult terrain, there are steps that must be taken to protect the equipment.
  - a. Refer to TM 5-6115-584-12 for special procedures when operating the generator set under unusual conditions.
  - b. Refer to TM 9-2330-213-14&P for special procedures when operating the trailer under unusual conditions.

## CHAPTER 3

## OPERATOR/CREW MAINTENANCE INSTRUCTIONS

## Section I. CONSUMABLE OPERATING AND MAINTENANCE SUPPLIES

**3-1. Consumable Supplies.** Consumable supplies used in the maintenance and operation of the power plant are listed in Table 3-1.

(1)(2) (3)(4) (5) (6) Qty Qty National reau required stock for initial Component 8 hours application number Description operation operation Notes 6850-00-664-5685 General Solvent, Drycleaning, 1 quart As required P-D-680 Cleaning Lea Prop 9150-00-190-0904 Grease, Automotive and 1 pound As required Artillery, GAA Assembly 9150-00-186-6681 Oil, Lubricating, As required Leg Prop 1 quart

Table 3-1. Consumable Operating and Maintenance Supplies.

## Section II. LUBRICATION INSTRUCTIONS

1 quart

As required

**3-2. General.** Detailed instructions for the lubrication of the major components of the power plant are contained in the applicable Lubrication Orders (LO's). Refer to DA Pam 25-30 to ensure that the latest editions of the LO's are used.

Oil, Lubricating, OEA

**3-3. Generator Lubrication.** Refer to TM 5-6115-584-12 for generator set Lubrication Order.

OE/HDO-30

Assembly

9150-00-402-4478

**3-4. Trailer Lubrication.** There are no operator/crew lubrication requirements for the power plant trailer. However, the operator shall assist unit maintenance.

# Section III. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) NOTE

The PMCS chart in this section contains all necessary Operator/Crew preventive maintenance checks and services for this equipment.

- **3-5. General.** The preventive maintenance checks and services listed in Table 3-2 are grouped according to stages of equipment operation or time intervals. Using the following as a guide, do the checks and services at the intervals shown.
  - a. Before you operate, perform your before (B) PMCS. Observe all CAUTIONS and WARNINGS.

- b. While you operate, perform your during (D) PMCS. Observe all CAUTIONS and WARNINGS.
- c. After you operate, be sure to perform your after (A) PMCS.
- d. Do (W) PMCS weekly.
- e. Do (M) PMCS monthly.
- f. If equipment fails to operate, refer to Section IV Troubleshooting. If the problem cannot be corrected, see paragraph 3-8, Reporting Deficiencies.
- **3.6. Purpose of PMCS Table.** The purpose of the PMCS table is to provide a systematic method of inspecting and servicing the equipment. In this way, small defects can be detected early before they become a major problem causing the equipment to fail to complete its mission. The PMCS table is arranged with the individual PMCS procedures listed in sequence under assigned intervals. The most logical time (before, during, or after operation) to perform each procedure determines the interval to which it is assigned. Make a habit of doing the checks and services in the same order each time and anything wrong will be seen quickly. See paragraph 3-7 for an explanation of the columns in table 3-2.
- **3-7. Explanation of Columns.** The following is a list of the PMCS table column headings with a description of the information found in each column.
- a. Item No. This column shows the sequence in which the checks and services are to be performed, and is used to identify the equipment area on the Equipment Inspection and Maintenance Worksheet, DA Form 2404.
  - b. Interval. This column shows when each check is to be done.
- c. Item to be Inspected/Procedures. This column identifies the general area or specific part where the check or service is to be done, lists the checks or services to be done and explains how to do them.
- d. Equipment is Not Ready/Available If. This column lists conditions that make the equipment unavailable for use because it is unable to perform its mission or because it would represent a safety hazard. Do not accept or operate equipment with a condition in the "Equipment is Not Ready/Available If" column.
- **3-8.** Reporting Deficiencies. If you discover any problem with the equipment during PMCS or while operating it that you are unable to correct, it must be reported. Refer to DA Pam 738-750 and report the deficiency using the proper forms.
- **3-9. Special Instructions.** Preventive maintenance is not limited to performing the checks and services listed in the PMCS table. Covering unused receptacles, stowing unused equipment and other routine procedures such as equipment inventory, cleaning components, and touch-up painting are not listed in the PMCS table. These are things you should do any time you see they need to be done. If a routine check is listed in the PMCS table it is because other operators have reported problems with this item. Take along tools and cleaning cloths needed to perform the required checks and services. Use the information in the following paragraphs to help you identify problems at any time.
- a. <u>Routine Inspections.</u> Use the following information to help identify potential problems before and during checks and services.

#### WARNING

Drycleaning solvent P-D-680 is both toxic and flammable. Wear safety goggles and gloves and use in a well-ventilated area. Avoid prolonged breathing of vapors and avoid skin contact. Do not smoke or use near open flame or excessive heat. Flash point of solvent is 100°F to 138°F (38°C to 59°C). If you become dizzy while using P-D-680, get fresh air immediately and get medical aid. If P-D-680 contacts eyes, flush with water and get medical aid immediately.

- (1) Keep it clean. Dirt, grease, and oil get in the way and may cover up a serious problem. Use drycleaning solvent P-D-680, to clean metal surfaces. Use soap and water to clean rubber or plastic parts and material.
- (2) Bolts, nuts, and screws. Check them all to make sure they're not loose, missing, bent, or broken. Don't try to check them all with a tool, but look for chipped paint, bare metal, or rust around bolt heads. If you find one loose, tighten it or report it to unit maintenance.
- (3) Welds. Look for loose or chipped paint, rust, or gaps where parts are welded together. If a broken weld is found, report it to higher level of maintenance.
- (4) Electrical wires, connectors, terminals and receptacles. Look for cracked or broken insulation, bare wires, and loose or broken connectors. Tighten loose connectors and make sure the wires are in good condition. Examine terminals and receptacles for serviceability.
- (5) Hoses and fluid lines. Look for wear, damage, and leaks. Make sure clamps and fittings are tight. Wet spots and stains around a fitting or connector can mean a leak. If a leak comes from a loose connector, tighten it. If something is broken or worn out, report it to unit maintenance.
- b. <u>Leakage Definitions</u>. It is necessary for you to know how fluid leakage affects the status of your equipment. The following are definitions of the types/classes of leakage you need to know to be able to determine the status of your equipment. Learn and be familiar with them. When in doubt, NOTIFY YOUR SUPERVISOR!

## Leakage Definitions:

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.

## CAUTION

Equipment operation is allowable with minor leakage (Class I or 11) of any fluid except fuel. Of course, consideration must be given to the fluid capacity in the item being checked/inspected. When in doubt, notify your supervisor.

When operating with Class I or II leaks, continue to check fluid level more often than required in the PMCS. Parts without fluid will stop working and/or cause equipment damage.

Class III leaks should be reported to your supervisor or unit maintenance.

Table 3-2, Operator/Crew Preventive Maintenance Checks and Services (PMCS)

#### NOTE

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

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

B – B	efor	е			D –	During	Α .	- After	١	N – Weel	кlу	M - Monthly
		lr	nterv	⁄al		Item to be inspected. Procedure: check for and						
Item no.	В	D	Α	W	М	have repaired, filled, or adjusted as needed				Equipment is not ready/available if:		
						nanc unde brake rear could	re perfore e that re r trailer, es, choc leg prop	warning any equires clin set trailer k wheels, a contrailer from trailer pring.	mainte- mbing or hand- and lowe personne	er el		

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services(PMCS) - CONT.

B – E	Befor	е			D –	During A – After W - Weekly	M – Monthly
Item no.	Interval  B D A W M					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
2	•					Perform weekly as well as before PMCS if:  You are the assigned operator but have not operated the equipment since the last weekly inspection.  You are operating the equipment for the first time.  Generator set checks and services in this table are described as performed on a single generator set. These procedures must be performed on each of the two generator sets that make up the AN/MJQ-16.  GENERATOR SET EXTERIOR  a. Check on, around, and beneath the generator set (1) for fuel or oil leaks.  b. Check that generator set (1) grounds are properly installed, and grounding connections are tight.  FUEL GAGE  Check fuel gage (2) for sufficient fuel for continuous operation.	A Class III lubrication oil or any class fuel leak is detected.  Not properly grounded.

Table 3.2. Operator/Crew Preventive Maintenance Checks and Services (PMCS)- CONT.

В –	Befo	ore		D -	- Dur	ing A – After W – Weekly	M - Monthly
		ı	nterva	al	Item to be inspected.  Procedure: check for and  have repaired, filled, or  Equipment is r		
Item no,	В	D	A	w	М	have repaired, filled, or adjusted as needed.	ready/available if:
2						FUEL GAGE — CONT	
	i						
3	•	,				ENGINE OIL LEVEL	
						Check oil filler dipstick (3) for proper oil level. Add oil as required.	
4	•	•				AIR CLEANER INDICATOR Check indicator (4) for a restricted air cleaner. If red warning indicator becomes visible, clean or replace air filter element. Refer to TM 5-6115-584-12.	Indicator Indicates Red.

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services (PMCS) - CONT.

B – B	B – Before D -				D -	During	Α	- After		W -	Weekly	y M - Monthly
Item		lr	nterv	/al			Proced	to be inspe lure: check f repaired, fill	Equipment is not			
no.	В	D	Α	w	М			justed as ne				ready/avai lable if:
4						AIR CLE		NDICATOR -	- CON	T 4		
5	•					ACCESS Check thare not ra. Sledg	nat the formissing.		cessorie	es		Fire extinguisher is
						c. Drive	-					missing.  Ground rods are missing.
6	•					BRACKE	TS					J
7							g bracket	uisher and f ts for loose gs.				
·						a. Check object Rem tread	cts, or ur nove any ds. < that tire	i) for cuts, f nusual tread stones from e pressure i when tires a	d wear. n betwe is 50 ps	si	e	One tire is flat, missing, or unserviceable.

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services(PMCS) - CONT.

B - B	Before D -				D –	During A - After	M - Monthly		
		_lr	nterv	al		Item to be inspecte Procedure: check for a have repaired, filled,	and	Equipment is not	
	В	D	Α	W	М	adjusted as neede		ready/available if:	
8	•					WHEELS  a. Check for damage and for no r loose stud nuts (6).	nissing	One or more wheel is damaged. One or more stud nuts are loose or missing.	
						WARNING			
						An improperly seated lock blow off. Never attempt to lockring when tire is inflate Serious injury or loss of life result.	seat a ed.		
						b. Check for improperly mount lockring assembly (7).	ed	Lockring is improperly seated.	
							5 6 7		
9	•					DRAWBAR RING			
						Check drawbar ring (8) for insect mounting and obvious damage.		Ring is loose or bent.	
10	•					INTERVEHICULAR CABLE			
						Check cable (9) and connector f and breaks.	or cuts	Intervehicular cable is broken or missing.	

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services (PMCS) - CONT.

B – B	- Before D -				D –	During	A – After	W - Weekly	/ M – Monthly
Item no.	В	lr D	nterv A	al W	м		Item to be inspected Procedure: check for have repaired, filled, adjusted as needed	Equipment is not ready/available if:	
11	•						CHAINS  Ifety chains (10) for ins and obvious damage.	Safety chains are missing or unsecured.	
						10		9	
12	•						SEMBLIES our long bow assemblie	es (11) and	
13	•					a. Check defect faster  b. Check ropes  c. Check and b	t bow assemblies (12).  COVER  ck fitted cover (13) for rective tiedown straps and ners (14).  ck for missing and defeat (15).  ck for missing and defeat (16).  ck for ripped seams and	ective ective straps	

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services(PMCS) - CONT.

B - B	B - Before D -			) -	During	A – After	M – Monthly			
Item no.	Interval B D A W M							Item to be inspect Procedure: check for have repaired, filled adjusted as need	Equipment is not ready/available if:	
13						-	FITTED	COVER - CONT		
14		•					15 LIGHTS a. With towing switch light b. Step	n intervehicular cable on yehicle, operate ve ch through all settings	chicle light s and check while	

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services (PMCS) - CONT.

B - B	efor	е			D –	During A – After W – Week	y M - Monthly
Item no.	—	     D	nter\ A	/al     W  -	_ M	Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
14						LIGHTS - CONT	
15	•					AIR HOSES, FITTINGS AND BRAKE AIR CHAMBER  Check air hoses (18), fittings (19) and brake air chamber (20) for signs of damage or leaks.	Damage or leaks are detected.

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services (PMCS) - CONT.

B - B	efor	е			D –	During	Α -	– After	W – We	ekly	M – Monthly
Item no.	Interval B D A W M						Item t Procedu have re adjus		Equipment is not ready/available if:		
16	•					CYLINDE Check br fittings (2 (23), and	R ake syster 2) and ma	ES, FITTINGS AN m hoses (21) and aster cylinder der vehicle for d leaks.			A class III brake fluid leak is detected.
							21	23 22			
17		•				With trail		cted to towing ve leg assembly (24			Support leg assembly is seized.

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services(PMCS) - CONT.

B - E	B - Before D				- During	A – After	M – Monthly	
Item no.	— – В D	_Inter	va <u>l</u> W	_ M 		Item to be inspected Procedure: check for a have repaired, filled, adjusted as neede	Equipment is not ready/available if:	
18		•			Inspect le	eg prop assembly (25) for missing parts.	or Signature of the state of th	Leg prop assembly is unserviceable.
19	•	•			to towing	ke system by hooking tra g vehicle and applying b		Service brakes fail to operate.
20					a. Be ald towin any d	ert for any unusual noising trailer. Stop and invesual noises.  re that trailer is tracking behind towing vehice pull.	estigate ng/following	
21		•			a. Check is in are c	ATOR SET GAGES AND  k that battery indicator ( yellow area while batter charging and in green are eries are fully charged.	(26) ries	Battery indicator not in correct area.

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services(PMCS) - CONT.

B - B	B – Before D		D -	During A – After	W – Weekly	M – Monthly				
Item	Interval				L	Item to be inspecte Procedure: check for a have repaired, filled,	and or	Equipment is not		
no	В	•	A	W	M	SERV GENERAL SERVICE S	(27) en	ready/available if:  Correct frequency cannot be maintained.		
						<ul> <li>c. Check that current meter (28 does not exceed 100% or moload difference between phase)</li> <li>d. Check that voltmeter (29) in desired output voltage as demined by load connections volts transfer switch.</li> </ul>	re than 5% ases. dicates eter-	Desired voltage cannot be obtained and maintained.		

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services (PMCS) - CONT.

В - Е	Before			D –	During A – After W - Wee	kly M – Monthly
Item no.		nt <u>er</u> \	/al W	 M 	Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
21	•				GENERATOR SET GAGES AND INSTRUMENTS – CONT	
22		•			e. Check engine oil pressure gage (30) for 20 to 45 psig indication.  30  FUEL TANK  a. Fill tank (31) upon completion of operation.	Oil pressure drops below 20 psig.

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services (PMCS) - CONT.

B - E	Befor	e			D –	During	Α -	- After	W -	Weekly	M ·	- Monthly
	Interval					Item to be inspected. Procedure: check for and						
Item no.	В	D	Α	w	М			epaired, filled sted as need			Equipmen ready/avai	
22 23	В	D	•		M	b. Open de sedim until for prain water (33), prima	system of the freezing and ser	NT NOTE temperature g when draidiment. and drain w fuel tank. Al	must be ning vater and llow to drawn to	31 32	ready/avai	lable if:

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services (PMCS) - CONT.

D - During A - After W - Weekly M - Monthly B - Before Item to be inspected. interval Procedure: check for and have repaired, filled, or Equipment is not Item М adjusted as needed ready/available it no. В D W FUEL STRAINER AND FILTERS - CONT 23 **HANDBRAKES** 24 With trailer hooked to towing vehicle, set handbrakes (36). Move trailer slightly to see if handbrakes hold wheels.

Table 3-2. Operator/Crew Preventive Maintenance Checks and Services (PMCS) - CONT.

B – I	Befor	е			D –	During	A – After	W – Week	kly M – Monthly		
Item			nterv		I.,	Item to be inspected. Procedure: check for and have repaired, filled, or Equipment is no ready/available					
no.	В	D	Α	W	М		adjusted as nee	aea	ready/available II.		
25	'	'	•			BRAKE C	DRUMS AND HUBS				
							WARNING				
						bra par ser tion	defect in the operation kes or hub can cause ts to get hot enough ious burns. Use extrence when attempting to at in this area.	these to cause me cau-			
						Feel for ging or b	overheating to detect binding.	drag	Brakes or hub are dragging or binding.		
2 6				•		REFLEC <sup>-</sup>	TORS				
						Check fo	or damaged or missin	g reflectors.			
27				•		BATTERI	IES				
						should be plates. A	attery (37) electrolyte e about 3/4 inch abou dd water if level is low ater (distilled water if	re top of w. Use			
						37					

Table 3.2. Operator/Crew Preventive Maintenance Checks and Services (PMCS) - CONT.

В-	B - Before D - I		- Dur	ing A – After	W - Weekly	M – Monthly		
Interval				al		Item to be inspected.  Procedure: check for and  base regarded filled or Equipment is not		
Item no,	В	D	Α	w	М	have repaired, filled adjusted as neede	ready/available if:	
28 29					•	FIRE EXTINGUISHER  Inspect and weigh fire extinguisher. (See paragraph 3-12.)  TRAILER FRAME		
30	•					Inspect entire chassis frame fo cracks, and broken welds.  SWITCH BOX	r damage,	Frame is obviously broken or cracked.
						Inspect for broken or damaged connectors Inspect for frayed or broken wires and wire insulation. Inspect for loose connections at the switch box. Inspect rotary switch for loose or missing parts and correct operation.		Connectors will not tighten or if parts are damaged or missing, bare wires are exposed or if rotary switch is defective or unoperational.

## Section IV TROUBLESHOOTING

- **3-10. Power Unit Troubleshooting.** There are no troubleshooting procedures authorized at operator level for the power plant end item. Troubleshooting procedures for the individual generator sets and trailer are contained in their respective technical manuals referenced below.
  - a. Generator Set Troubleshooting. Refer to TM 5-6115-584-12 for troubleshooting procedures.
  - b. Trailer Troubleshooting. Refer to TM 9-2330-213-14&P for troubleshooting procedures.

## Section V. OPERATOR/CREW MAINTENANCE

- **3-11. Enclosure Maintenance.** Maintenance of the enclosure at operator level is limited to replacement of the fitted cover and/or the bows.
  - a. Fitted Cover Replacement. (See figures 3-1 and 3-2.)
    - (1) Removal.
      - (a) Untie 25 ropes (1, figure 3-1) fastening fitted cover to trailer body (2).

- (b) Unfasten six straps and buckles (3) securing rear curtain (4). Roll up curtain, and secure with three rollup straps (5) provided.
- (c) Unfasten six straps and buckles (3) securing front curtain (6). Roll up curtain, and secure with three rollup straps (5) provided.
- (d) Roll up each side (7) of fitted cover, in turn, and secure each side with six rollup straps (5) provided.
- (e) Working under fitted cover (1, figure 3-2), unfasten 12 straps (2) securing fitted cover to bow assemblies (3). Remove fitted cover.

#### (2) Installation.

#### NOTE

Front curtain is provided with three tie-down ropes. Rear curtain only has two ropes.

- (a) Position fitted cover (1, figure 3-2) on top of bows (3) making certain front of fitted cover is at front of trailer.
- (b) Secure fitted cover (1) to bow assembly (3) with 12 straps (2) provided.
- (c) Unfasten rollup straps (5, figure 3-1) securing sides of fitted cover and lower both sides (7).
- (d) Unfasten rollup straps (5) securing front and rear curtains (4, 6) and lower both curtains.
- (e) Secure front and rear curtains (4, 6) to sides (7) with six straps and buckles (3) provided on each curtain.
- (f) Secure fitted cover to trailer body (2) with 25 ropes (1) provided,

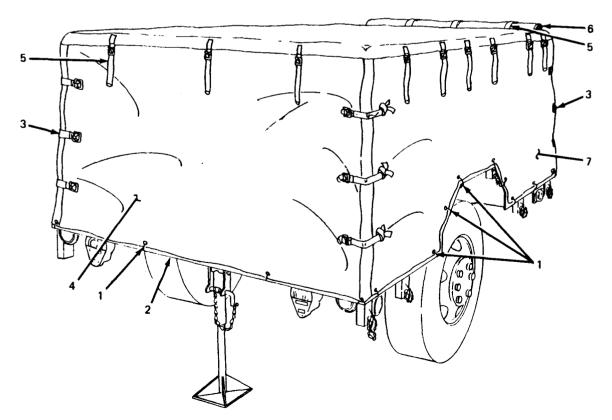


Figure 3-1. Fitted Cover Installed on Power Plant.

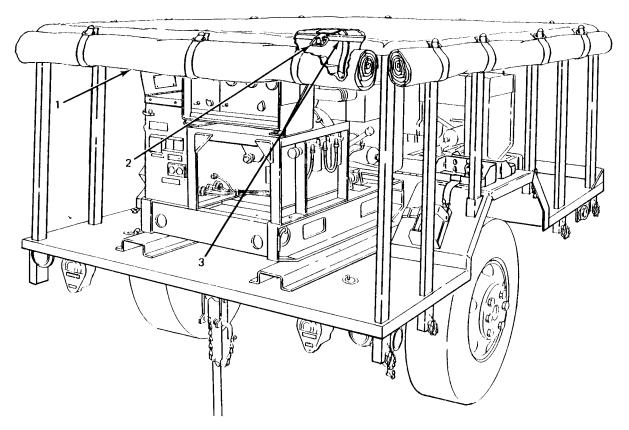


Figure 3-2. Fitted Cover Rolled Up for Removal.

- b. Bow Assembly Replacement. (See figure 3-3.)
  - (1) Removal.
    - (a) Remove fitted cover (paragraph 3-11, a.(1)).
    - (b) Remove two quick release pins (1) securing each bow assembly (2) in pockets (3) on trailer body (4). Lift each bow out of pocket and off trailer body.
  - (2) Installation.
    - (a) Lift each bow (2) onto trailer, aline ends with pocket (3) in trailer body (4) and drop bow in place. Secure each bow assembly with two quick release pins (1) provided.
    - (b) Install fitted cover on trailer (paragraph 3-11, a.(2)).

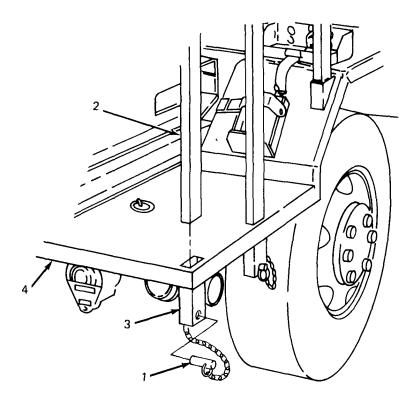


Figure 3-3. Bow Assembly Replacement.

### 3.12. Fire Extinguisher Maintenance.

# WARNING

Monobromotrifluoroethane liquid or gas (Halon 1301) can cause death or serious injury if personnel fail to observe safety precautions. Inhalation of monobromotrifluoroethane gas at concentrations of 5% to 6% for more than 4 or 5 minutes may result in serious cardiac or central nervous system effects. Liquid Halon 1301 (including the spray in the immediate vicinity of the discharge) may freeze the skin on contact. In the event of frostbite, warm the affected area quickly to body temperature. Immerse hands in warm water or place hands in armpits. Get medical attention promptly.

## **CAUTION**

Do not attempt to verify readiness of fire extinguisher by partially discharging unit. Any discharge of contents will require refilling.

The AN/MJQ-16 Power Plant is equipped with two 2-3/4 lb Halon fire extinguishers. Maintenance is limited to weighing the fire extinguishers monthly to insure that they are sufficiently charged. Fully charged, each fire extinguisher (with head and horn attached) weighs 5 lb. Send the unit to specialized activity for recharging if it weighs 4 lb, 12 oz or less.

# CHAPTER 4

# **UNIT MAINTENANCE**

## Section I. SERVICE UPON RECEIPT OF EQUIPMENT

- **4-1. Inspecting and Servicing Equipment.** The power plant shall be unpacked, inspected, and serviced as described in the following paragraphs. Unpacked equipment must be checked against the Equipment Packing List to ensure completeness. Discrepancies must be reported in accordance with the instructions given in DA Pam 738-750.
- a. <u>Unpacking Power Plant.</u> (See figure 4-1.) The generator sets are packed in place *on* the trailer body. Before beginning the unpacking procedure, locate, remove, and save the two Depreservation Guides.

# WARNING

Steel strapping used in packaging of power plant has sharp edges. Care should be taken when cutting and handling strapping to avoid injury to personnel.

- (1) Remove lag screws securing plywood boxes over generator sets and lift boxes off generator sets. Remove wooden wedges and fiberboard pads positioned around base of generator sets.
- (2) Remove barrier material and corrugated paper surrounding generator sets.

#### NOTE

Inspection and servicing of equipment will be easier to perform before fitted cover is put in place on power plant.

- (3) Pry off end of plywood fitted cover box (strapped to one generator set box). Take out fitted cover. Remove plastic protective film and set fitted cover aside.
- (4) Remove ground wires and clamps taped to one generator set.
- (5) Take tape or covers off ends of power cables.
- (6) Remove two boxed fire extinguishers taped to generator sets. Unpack fire extinguishers and secure one in each fender-mounted bracket.
- (7) Take plywood box off switch box.
- (8) Remove strapping, framing and fiberboard edge protectors securing bows and remove bows from trailer.
- (9) Remove oil drain taped to generator set and install in place. (Refer to TM 5-6115-584-12.)
- (10) Remove package of technical publications from accessory box and save.
- (11) Unpack and inventory accessories in accessory box.

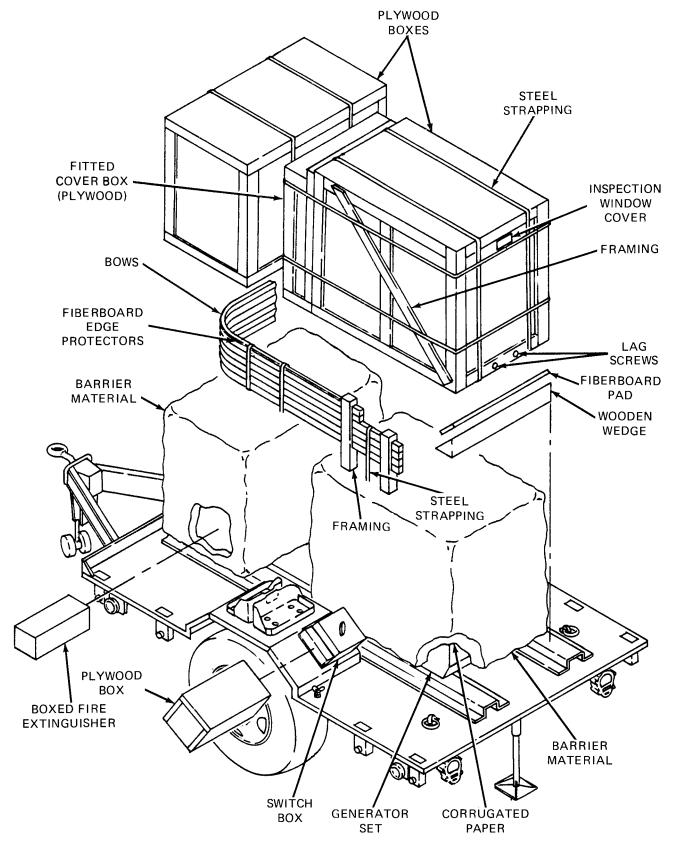


Figure 4-1.Unpacking Power Plant.

- (12) Connect power cables to each generator set load terminal board as follows and in accordance with identification on cables, wires and generator set terminals:
  - (a) White wire to load terminal L0;
  - (b) Black wire to load terminal L1;
  - (c) Red wire to load terminal L2;
  - (d) Blue wire to load terminal L3.
  - (e) Green wire to generator set ground terminal (5-wire switch box only),
- (13) Refer to DA Form 2258, Depreservation Guide for Vehicles and Equipment, packed with power unit and follow instructions given for putting unit in service.
- (14) Stow all authorized accessories in accessory box.
- (15) Install bows on power plant (paragraph 3-11, b.(2)).
- (16) Install fitted cover on power plant (paragraph 3-11, a.(2)).
- b. *Inspection and Servicing of Generator Set.* Refer to Service Upon Receipt of Materiel in TM 5-6115-584-12 for initial inspection and servicing procedures.
- c. Inspection and Servicing of Trailer. Refer to Service Upon Receipt of Materiel in TM 9-2330-213-14&P for initial inspection and servicing procedures.
- **4-2. Installation.** (See figure 4-2.) Installation of the power plant at a worksite involves positioning the trailer and grounding the power plant.
  - a. Positioning Power Want. Position the power plant on the worksite as follows:
    - (1) Select an area as level as possible to install power plant and position trailer.
    - (2) Set trailer handbrakes and lower trailer support leg,
    - (3) Chock both wheels and lower rear leg prop assembly. Adjust leg prop assembly by turning inner leg until leg base makes firm contact with ground.
    - (4) Lift and secure fitted cover in raised position away from generator set exhaust.

## WARNING

Remove fire extinguisher and fuel cans from power unit when generator set is in operation. This will insure that in the event of fire, extra fuel will not be involved and extinguisher will remain accessible.

(5) Locate fuel cans and fire extinguisher on ground away from power plant.

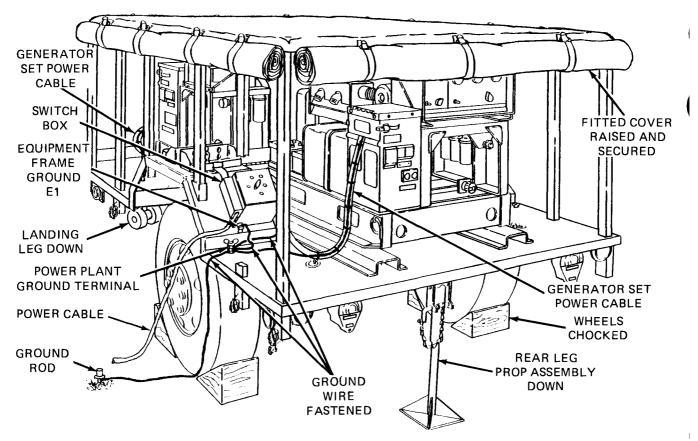


Figure 4-2.Installing Power Plant

#### WARNING

Do not operate generator sets until power plant is properly grounded (paragraph 4-2, b.). Serious injury or death by electrocution can result from operating an ungrounded power plant.

## **CAUTION**

To avoid damage to equipment, make certain of voltage, frequency, and phase requirements of load being connected to generator set.

- (6) Refer to data plate on load terminal board cover and to TM5-6115-584-12. Connect power plant to system or equipment to be powered.
- b. <u>Grounding.</u> Check that generator sets are grounded to GROUND TERMINAL stud on trailer body. Using ground wire supplied, connect power plant to a suitable ground as described below. The following sources of a good ground are listed in order of preference.

#### **NOTE**

As a substitute for the supplied ground wire, any copper wire of at least No. 6 AWG maybe used.

- (1) Underground water system. Ground power plant to one of the accessible pipes in an underground water system. Make certain underground pipe is made of metal and there is no insulation, such as a water meter, between ground wire and earth.
- (2) Ground rod. Drive ground rod a minimum of eight feet into earth and saturate area around ground rod with salt water. A ground rod must have a minimum diameter of 5/8-inch, if solid, or 3/4-inch if pipe.

#### NOTE

It maybe necessary to saturate the area around ground rod with water if soil conditions are dry.

- (3) Ground plate. Ground power plant to a metal plate buried four feet deep. Ground plate should cover a minimum area of nine square feet.
- c. External Fuel Line Connection. (See figure 4-3.) The power plant generator sets can be fueled from an external source such as a five-gallon fuel can or 55 gallon drum. This eliminates the need for frequent refilling of each generator's fuel tank during long intervals of operation.
  - Remove fuel can adapter and fuel pickup tube from storage locations on generator set and assemble by threading pickup tube into adapter.
  - (2) Thread one end of auxiliary fuel line onto fuel can adapter fitting and tighten.
  - (3) Connect free end of auxiliary fuel line to AUXILIARY FUEL CONNECTION. This connection is located immediately below control cubicle on right-hand side of generator set.
  - (4) Insert fuel can adapter in external fuel source and secure by pressing down on lever.
  - (5) Set MASTER SWITCH on control panel to PRIME AND RUN AUX FUEL position.

## **NOTE**

When generator set is run on auxiliary fuel, as described above, fuel is first pumped into generator set fuel tank by auxiliary fuel pump. Fuel is then fed to generator set engine from fuel tank.

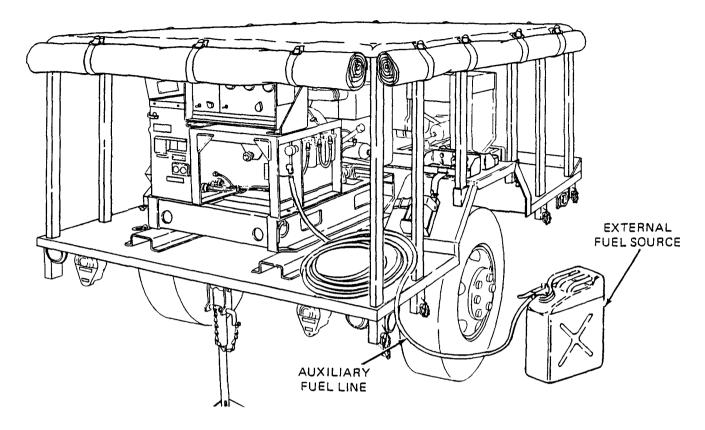


Figure 4-3. External Fuel Line Connection.

## Section II. MOVEMENT TO A NEW WORKSITE

- **4-3. Dismantling for Movement.** Because the power plant is designed to be mobile, a minimum amount of effort is required to relocate to a new worksite. Procedures are as follows:
  - a. Disconnect power plant from system or equipment being powered.
  - b. Disconnect ground cable from source of ground and from power plant GROUND TERMINAL stud. Roll up cable and store in accessory box.
  - c. Using slide hammer, remove ground rod. Disassemble, clean, and stow ground rod in accessory box.
  - d. Disconnect power plant from external fuel sources, if applicable.
  - e. Stow any remaining authorized equipment in accessory box.
  - f. Secure fire extinguishers and fuel cans in their respective mounting brackets.
  - 9. Lower and secure fitted cover in place on power plant.
  - h. Remove locking pin from leg prop assembly on rear of trailer. Swing leg prop back and up into traveling position and secure with pin.

- i. Attach power unit to towing vehicle. (Refer to TM 9-2330-213-14&P.)
- **4-4. Reinstallation After Movement.** After movement to a new worksite, install power plant in accordance with paragraph 4-2.

# Section III. REPAIR PARTS, SPECIAL TOOLS, SPECIAL TEST, MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE)

- **4-5. Tools and Equipment.** There are no special tools or equipment required to maintain the AN/MJQ-16 power plant.
- **4-6. Maintenance Repair Parts.** Repair parts and equipment for maintenance of this power plant are listed and illustrated in the repair parts and special tools list in Appendix D of this manual.

### Section IV. LUBRICATION INSTRUCTIONS

- **4-7. General.** Detailed instructions for the lubrication of the major components of the power plant are contained in the applicable Lubrication Orders (LO's). Refer to DA Pam 25-30 to ensure that the latest editions of the L.O.'S are used. This section contains lubrication instructions that are not included in the Lubrication Orders.
- **4-6. Generator Lubrication.** Refer to LO 5-6115-584-12 for generator set Lubrication Order.
- 4-9. Trailer Assembly Lubrication.
  - a. Trailer Lubrication. Refer to TM 9-2330-213-14&P for trailer Lubrication Order.
- b. Leg Prop Assembly Lubrication. The rear leg prop assembly is a modification to the standard M103A3 trailer and, as such, does not appear in the associated L.O. Semiannually lubricate leg prop assembly as follows:

## WARNING

Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes and prolonged exposure of skin to cleaning solvent. Wash exposed skin thoroughly. Dry cleaning solvent (P-D-680) used to clean parts is potentially dangerous to personnel and property. Do not smoke or use near open flame or excessive heat. Flash point of solvent is 100°F. to 138°F. (38°C. to 59°C.).

- (1) Clean hydraulic lubrication fitting and area around lubrication points with P-D-680 or equivalent.
- (2) Inject sufficient GAA grease into hydraulic fitting to lubricate screw theads inside leg prop assembly.

#### NOTE

Refer to Lubrication Instructions in TM 9-2330-213-14&P for lubricating oils specified for use within different anticipated temperature ranges.

(3) Apply OE lubricating oil to both ends of leg prop assembly pivot shaft.

#### Section V. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

#### NOTE

The PMCS chart in this section contains all necessary unit preventive maintenance checks and services for this equipment.

- **4-10. General.** The trailer assembly and generator sets must be inspected and serviced systematically to insure that the power plant is ready for operation at all times. Inspection will allow defects to be discovered and corrected before they result in serious damage or failture. Table 4-1 contains a tabulated list of preventive maintenance checks and services to be performed by unit maintenance personnel. All of the unit PMCS on the trailer is scheduled to be performed semiannually. Unit PMCS on the generator sets are scheduled weekly or on a per-hours-of-operation basis, The running time meter on the control panel is used to determine the generator set operating time. Using the following as a guide, do the checks and services at the intervals shown. Observe all CAUTIONS and WARNINGS.
  - a. For PMCS performed on an operating time basis, perform your hourly (H) PMCS as close as possible to the time intervals indicated.

#### NOTE

For units in continuous operation, perform PMCS before starting operation if continuous operation will extend service interval past that which is shown.

- b. Perform your weekly (W) PMCS every week or 40 hours of generator set operating time.
- c. Perform your monthly (M) PMCS every month or 100 hours of generator set operating time.
- d. Do your semiannual (S) PMCS once every six months or 500 hours of generator set operating time.
- e. Do your annual (A) PMCS once every year or 1000 hours of generator set operating time.
- f. If you discover a problem with the equipment, refer to Section VI, Troubleshooting. If you cannot correct the problem, refer to paragraph 4-12, Reporting Deficiencies.
- **4-11. Explanation of Columns.** The following is a list of the PMCS table column headings with a description of the information found in each column.
- a. Item No. This column shows the sequence in which to do the checks and services, and is used to identify the equipment area on the Equipment Inspection and Maintenance Worksheet, DA Form 2404.
  - b. Interval. This column shows when each check is to be done.
- c. <u>Item to be inspected.</u> This column identifies the general area or specific part where the check or service is to be done.
  - d. Procedures. This column lists the checks or service you have to do and explains how to do them.
- **4-12. Reporting Deficiencies.** If you discover any problem with the equipment during PMCS that you are unable to correct, it must be reported. Refer to DA Pam 738-750 and report the deficiency using the proper forms.

Table 4-1. Unit Preventive Maintenance Checks and Services (PMCS). -CONT.

	H – Hours of operation (As indicated)					Weekly M – Mo hours) (100 ho			
Item	Interval					Item to be			
no.	н	w	M	S	Α	Inspected	Procedures		
							WARNING  Before performing any maintenance that requires climbing on or under trailer, set trailer handbrakes, chock wheels, and lower rear leg prop. Injury to personnel could result from trailer suddenly rolling or tipping.  NOTE  Generator set checks and services in this table are described as performed		
1			•			Generator Set	on a single generator set. These procedures must be performed on each of the two generator sets that make up the AN/MJQ-16.  Inspect generator set for fuel and oil leaks, loose or missing components and hardware, and unusual wear or deterioration. Clean generator set.		
							NOTE  Fuel system must be above freezing temperature when draining water and sediment from strainer, filters, and tank.		
2			•			Fuel Strainer and Filters	Open drains on fuel strainer, and secondary filters. Drain water and sediment (table 3-2, TM 5-61 15-584-12) Allow to drain until fuel runs clean.		
3			•			Fuel Tank	Open drain on fuel tank and drain water and sediment (table 3-2, TM 5-6115-584-12). Allow to drain until fuels runs clean.		

Table 4-1. Unit Preventive Maintenance Checks and Services (PMCS). - CONT.

	H – Hours of operation (As indicated)					- Weekly M - Mo hours) (100 h	,
Item		lr	nterva	ıl		Item to be	
no.	Н	W	М	s	А	Inspected	Procedures
4			I	•	l	Fuel Pumps	Clean or replace, as necessary, fuel strainer in bottom of fuel pumps, (table 3-2, TM 5-6115-584-12).
5	100					Lubricating Oil and Filter	Change lubricating oil and filter every 100 hours of operation (L.O. 5-6115-584-12).
6	300					Fuel Strainer	Clean fuel strainer every 300 hours of operation (para 4-20 TM 5-6115-584-12).
7	500					Primary Fuel	Service primary filter every 500 hours of operation (table 4-1, TM 5-6115-584-12).
8	1000					Secondary Fuel Filter	Service secondary filter every 1000 hours (table 4-1, TM 5-6115-584-12).
9	300					Batteries	Perform a hydrometer test on batteries every 300 hours, or quarterly. Refer to para 4-25, TM 5-6115-584-12 for test procedures.
10	500					Crankcase Breather	Inspect breather tube every 500 hours. Clean as necessary (para 4-45, TM 5-6115-584-12).
11	100					Dust Caps on Air Cleaner	Clean out dust caps on air cleaner assembly every 100 operating hours (more frequently under unusual conditions).
12	1000					Air Cleaner	Clean every 1000 operating hours or as conditions dictate. Replace air cleaner every 2000 operating hours.
13				•		Taillights	Replace any broken or cracked lenses or defective bulbs.
14				•		Intervehicular Cable	Check for cuts, breaks, frayed wires, or damaged plug.
15				•		Drawbar Ring	Check security of mounting. Inspect ring for excessive wear.

Table 4-1. Unit Preventive Maintenance Checks and Services (PMCS). - CONT.

H – Hou (As	urs of o		tion			Weekly M – Mo hours) (100 h		
Item	Interval					Item to be		
no.	Н	w	М	s	Α	Inspected 	Procedures	
16				•	j	Safety Chains	Inspect for broken links or missing chain(s).	
17				•		Reflectors	Replace any cracked, broken, or missing reflectors.	
18				•		Data Plates and Markings	Make sure data plates are legible and secure. Replace illegible data plates	
19				•		Support Leg Assembly	Inspect brackets and leg for bent or broken parts.	
20				•		Rear Leg Prop Assembly	Inspect bracket and leg prop for bent or broken parts.	
21				•		Suspension Assemblies	a. Inspect shackles, bearings, pinks, leaf springs and spring eyes for damage or broken parts.	
							Inspect mounting brackets for cracks or loose or missing hardware.	
							c. Inspect shock absorbers for damage or leaks.	
22				•		Axle	a. Check for damaged axle tube.	
							b. Check for loose or missing U-bolts or nuts.	
23				•		Wheels and Tires	a. Check serviceability of tires as indicated in TM 9-2610-200-24.	
							b. Tighten wheel stud nuts.	
24				•		Brakes	a. Inspect brake linings for wear. Replace if brake shoe lining is less than I/8-inch (3.2 mm) thick.	
							b. Inspect brake adjusting screw, retaining screw, retaining pins, springs, and clips for corrosion and wear.	
					_			

Table 4-1. Unit Preventive Maintenance Checks and Services (PMCS). - CONT.

H – Hoi (As	urs of o		tion		W - Weekly M - Monthly S - Semiannually A - Annually (40 hours) (1000 hours) (1000 hours)				
Item	Interval			l	·	Item to be			
no.	Н	w	м	s	Α	Inspected	Procedures		
24						Brakes – CONT	<ul> <li>c. Inspect hydraulic wheel cylinders for leaks.</li> <li>d. Inspect master cylinder for leaks or low fluid level. Fill to within 1/2 inch from top.</li> <li>e. Adjust brake (page 4-52,</li> </ul>		
25					•	Wheel Bearings	TM 9-2330-213-14&P).  Clean and repack. (page 4-105,		
						Ü	TM 9-2330-213-14&P).		
26					•	Hydraulic Brake Tubes and Hoses	Inspect for dents, cracks, loose connections and leaks.		
27					•	Trailer – Road Test	Perform road test paying special attention to items that were repaired or adjusted.		

#### Section VI. TROUBLESHOOTING

- **4-13. Troubleshooting.** Troubleshooting procedures for components unique to the power plant end item are given in paragraph 4-14. Troubleshooting information for the individual generator sets and trailer are contained in their respective technical manuals referenced below.
- a. <u>Generator Set Troubleshooting</u>. Refer to TM 5-6115-584-12 for troubleshooting procedures applicable to the generator set.
- b. <u>Trailer Troubleshooting.</u> Refer to TM 9-2330-213-14&P for troubleshooting procedures applicable to the trailer.
- **4-14. Power Plant Troubleshooting.** Table 4-2 contains troubleshooting information for locating and correcting operating troubles which may develop in components unique to the power plant end item. Each malfunction is followed by a list of tests or inspections which will help determine probable cause and corrective actions to take. Perform the tests/inspections and corrective actions in the order listed. This manual cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or cannot be corrected by listed corrective actions, notify your supervisor.

Malfunction

Test or inspection

Corrective action

- 1. POWER IS ABSENT AT SWITCH BOX LOAD TERMINAL(S) WHEN ONE GENERATOR SET IS OPERATING.
  - Step 1. Check that generator set circuit breaker is set to ON position.

If circuit breaker is in OFF position, set to ON position.

Step 2. Check for power output at generator set load terminals.

If power is absent at generator set load terminals, troubleshoot generator set. (Refer to TM 5-6115-584-12).

Step 3. Inspect power cable connections inside switch box for looseness or broken wire terminals.

Tighten loose connections. If any wire terminals are broken, replace cable (paragraph 4-25, d.) or refer to higher level of maintenance for repair.

Step 4. Perform continuity check on associated generator set power cable (paragraph 4-23, a.).

If cable is defective, replace cable (paragraph 4-25, d.) or refer to higher level of maintenance for repair.

Step 5. Perform continuity check on switch (paragraph 4-23, c.).

If switch is defective, notify higher level of maintenance.

- 2. POWER IS ABSENT AT ONE OR MORE SWITCH BOX LOAD TERMINALS WHEN EITHER GENERATOR SET IS OPERATING.
  - Step 1. Check wire associated with non-functioning load terminal(s) for looseness or broken terminals inside switch box.

Tighten loose connection(s). If any terminals are broken, replace wire (paragraph 4-25, c.).

Step 2. Perform continuity check on wire from switch to non-functioning load terminal(s) (paragraph 4-23, b.(2)).

Replace defective wire(s) (paragraph 4-25, c.).

Step 3. Perform continuity check on switch (paragraph 4-23, c.).

If switch is defective, notify higher level of maintenance.

Malfunction

Test or inspection

Corrective action

- 3. ONE OR BOTH INDICATOR LIGHTS FAIL TO LIGHT WHEN ASSOCIATED GENERATOR SET IS OPERATING AND ROTARY SWITCH IS SET TO "ON" POSITION FOR THAT GENERATOR.
  - Step 1. Check if bulb is defective.

If bulb is defective, replace.

Step 2. Check wires inside switch box associated with non-functioning light for looseness or broken wire terminals.

Tighten loose connections. If any terminals are broken, replace wire(s) (paragraph 4-25, c.) or refer to higher level of maintenance for repair.

Step 3. Perform continuity check on wires associated with non-functioning indicator (paragraph 4-23, b.(3) or (4), as applicable).

If wires are defective, replace indicator light and wire assembly (paragraph 4-25, b.).

Step 4. Perform continuity check on indicator housing (paragraph 4-23, b.(3) or (4), as applicable).

If housing is defective, replace indicator light and wire assembly (paragraph 4-25, b.).

### Section VII. RADIO INTERFERENCE SUPPRESSION

- **4-15. General Methods Used to Attain Proper Suppression.** Essentially, suppression is attained by providing a low resistance path to ground for stray currents. The methods used include shielding ignition and high-frequency wires, grounding the frame with bonding straps, and using filtering systems.
- **4-16. Radio Interference Suppression Components.** All component parts of the power plant end item, whose primary or secondary function is radio interference suppression, are on the generator sets. Refer to TM 5-6115-584-12 for location of radio interference suppression components.

## Section VIII. MAINTENANCE OF POWER PLANT TRAILER

**4-17. General.** This section of the manual contains unit level maintenance procedures for components of the M103A3 trailer added when the trailer is used as part of the AN/MJQ-16 power plant. These components are not covered in the overall trailer maintenance manual. For all other unit maintenance procedures on the trailer, refer to TM 9-2330-213-14&P.

#### **WARNING**

Before performing any maintenance that requires climbing on or under trailer, set trailer handbrakes, chock both wheels, and lower rear leg prop. Injury to personnel could result from trailer suddenly rolling or tipping.

**4-18. Fuel Can Bracket Replacement.** (See figure 4-4.) There are four fuel can brackets supplied with the AN/MJQ-16. Two brackets are mounted on top of each fender. Replacement procedures described below are typical for all four.

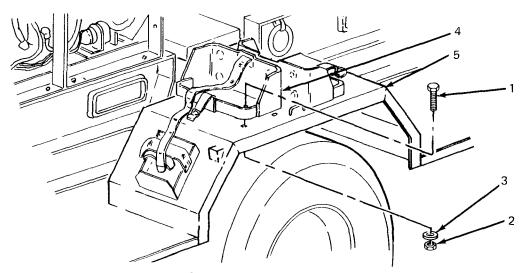


Figure 4-4. Fuel Can Bracket Replacement.

## a. Removal.

- (1) Remove four screws (1, figure 4-4), four nuts (2) and four flat washers (3) securing bracket (4) to fender (5).
- (2) Remove bracket (4) from fender (5).

## b. Installation.

- (1) Position fuel can bracket (4) on fender (5).
- (2) Insert four screws (1) down through bracket (4) and through fender (5).
- (3) Install one washer (3) and one nut (2) on each screw (I). Tighten hardware to secure bracket (4).
- **4-19. Accessory Box Replacement.** (see figure 4-5.) The power plant is equipped with an accessory box which is mounted to the trailer bed between the front and rear generator sets.

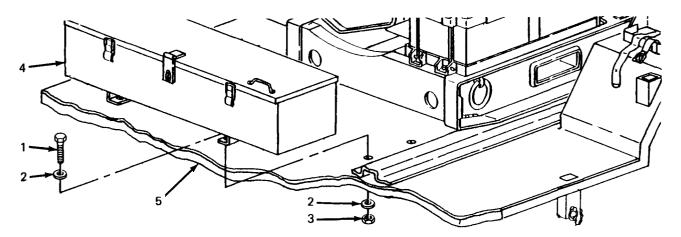


Figure 4-5. Accessory Box Replacement.

## a. Removal.

- (1) Remove four screws (1, figure 4-5), eight flat washers (2), and four nuts (3) securing accessory box (4) to trailer bed (5).
- (2) Lift accessory box (4) off trailer bed (5).

## b. Installation.

- (1) Position accessory box (4) on trailer bed (5).
- (2) Insert four screws (1) with flat washers (2) through accessory box mounting brackets and trailer bed (5).
- (3) Working under trailer, install one flat washer (2) and one nut (3) on each screw (I). Tighten hardware to secure accessory box (4).
- **4-20. Fire Extinguisher Bracket Replacement.** (See figure 4-6.) Each of the two fire extinguishers supplied with the power plant is carried in a bracket. One bracket is mounted on each fender. Replacement procedures described below are the same for both brackets.

## a. Removal.

- (1) Remove four screws (1, figure 4-6), four flat washers (2) and four nuts (3) securing bracket (4) to fender (5).
- (2) Remove bracket (4) from fender (5).

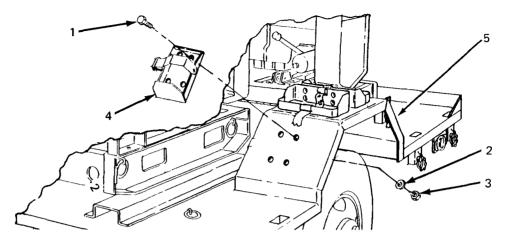


Figure 4-6. Fire Extinguisher Bracket Replacement.

#### b. Installation.

- (1) Position fire extinguisher bracket (4) on fender (5).
- (2) Insert four screws (1) down through bracket (4) and through fender (5).
- (3) Install one flat washer (2) and one nut (3) on each screw (I). Tighten hardware to secure bracket (4).
- **4-21. Leg Prop Assembly Servicing.** Servicing of the leg prop assembly is limited to semiannual lubrication (paragraph 4-9, b.).

## Section IX. MAINTENANCE OF ELECTRICAL SYSTEM

- **4-22. General.** This section contains maintenance information on electrical components unique to the power plant end item. For all other electrical system maintenance, refer to the applicable generator set and trailer manuals as follows:
- a. <u>Generator Set Maintenance</u>. For generator set maintenance procedures, refer to TM 5-6115-584-12.
  - b. Trailer Maintenance. For trailer maintenance procedures, refer to TM 9-2330-213-14&P.
- **4-23. Switch Box Testing.** To isolate the source of an electrical system problem, perform continuity tests on the components of the switch box as described below. Refer to the schematic diagram inside the switch box (shown in figure 4-7 or 4-8, as applicable) to locate and identify the test points indicated in these procedures.

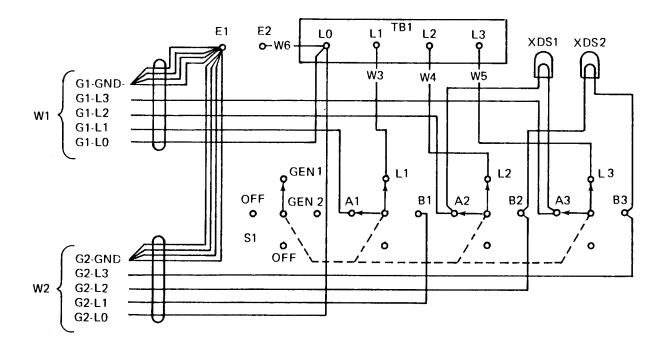


Figure 4-7. 5-Wire Switch Box Schematic Diagram.

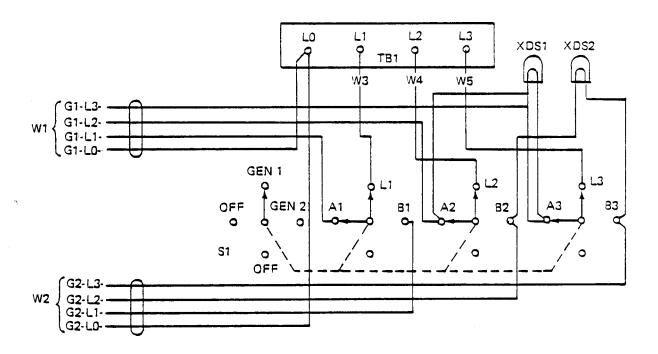


Figure 4-8. 4-Wire Switch Box Schematic Diagram.

## a. Power Cable Assembly Test.

- (1) Set multimeter for continuity testing.
- (2) Set switch box rotary switch to GEN 1 position and locate power cable assembly associated with that switch position.
- (3) Test white wire by touching one probe of multimeter to load terminal LO on generator set and touching other probe to load terminal on switch box. Multimeter must indicate continuity between these points.
- (4) Repeat step (3) for black wire (between L1 on generator set and A1 on switch), red wire (between L2 on generator set and A2 on switch), and blue wire (between L3 on generator set and A3 on switch).
- (5) On power plants supplied with the 5-wire configuration switch box, the green (ground) wire must also be tested. Disconnect wire from frame ground stud under generator set control panel. Test for continuity between free end of wire and ground stud E1 on switch box.
- (6) If multimeter does not indicate continuity exists on each wire in the cable, replace power cable assembly (paragraph 4-25, d.).

To test power cable assembly associated with GEN 2 switch position, perform steps (2) through (6) substituting switch terminals B1, B2 and B3 for terminals A1, A2 and A3, as test points. Generator set load terminal designations and wire color-coding is identical for both power cables.

# b. Switch Box Internal Wiring Test.

- Set multimeter for continuity testing.
- (2) Test wires between switch terminals and load terminals by touching probes to each of the following pairs of test points: L1 on switch to L1 load terminal, L2 to L2, and L3 to L3. If multimeter does not indicate continuity between each pair of test points replace associated wire (paragraph 4-25, c.).
- (3) Test wires and socket associated with GEN 1 indicator light by testing for continuity between switch terminal A2 and socket XDS1, and switch terminal A3 and socket XDS1. If multimeter does not indicate continuity exists on both of these wires, replace light wire assembly (paragraph 4-25, b.).
- (4) Test wires and socket associated with GEN 2 indicator light by testing for continuity between switch terminal B2 and XDS2 socket, and switch terminal B3 and XDS2 socket. If multimeter does not indicate continuity exists on both of these wires, replace light and wire assembly (paragraph 4-25, b.).
- On 5-wire switch box only, test ground wire by touching one probe to wire terminal L0 on switch box terminal board and touch remaining probe to E2 on switch box. If multimeter does not indicate continuity, replace associated wire (paragraph 4-25, e.).

## c. Switch Test.

- (1) Set multimeter for continuity testing.
- (2) Set switch lever to GEN 1 position.
- (3) Touch one probe to switch terminal A1 and remaining probe to switch terminal L1. Repeat test between terminals A2 and L2, and terminals A3 and L3. If multimeter does not indicate continuity exists between each pair of terminals, switch is defective. Notify higher level of maintenance.
- (4) Set switch lever to GEN 2 position and repeat step (3) above, substituting terminals B1, B2 and B3 for A1, A2 and A3.

## **4-24.** Switch Box Replacement. (See figure 4-9.)

## a. Removal.

- (1) Detach power cables (1, figure 4-9) from load terminals on generator sets (2). (Refer to TM 5-6115-584-12.)
- (2) Working underneath roadside fender (3), remove four screws (4) and four lockwashers (5) securing switch box (6) to fender.
- (3) Lift switch box (6) off fender.

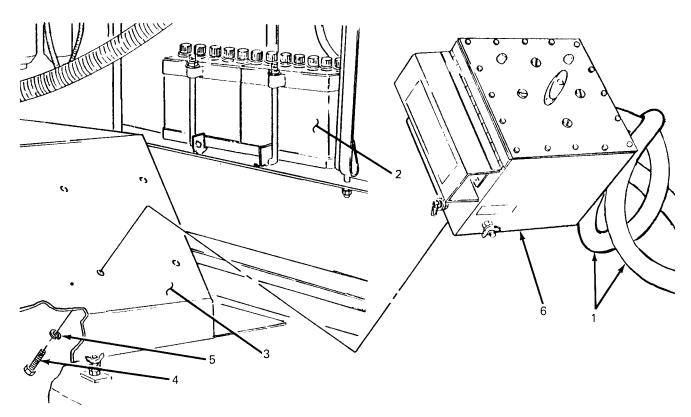


Figure 4-9. Switch Box Replacement.

## b. Installation.

- (1) Position switch box (6) on fender (3).
- (2) Working underneath fender (3)insert fourscrews (4)with lockwashers (5)through fender and into switch box (6) and tighten.
- (3) Attach power cables (1) to load terminals on generator sets (2). (Refer to TM 5-6115-584-12.)

## 4-25. Switch Box Repair.

# WARNING

Make sure generator set circuit breakers are in OFF position before performing any repairs on switch box. Failure to observe this precaution may result in injury or death by electrocution.

a. Load Terminal and Terminal Board Replacement (See figure 4-10.) There are four load terminals on the switch box terminal board. This procedure is typical for all four. When reconnecting wires, refer to the schematic inside the switch box (figure 4-7 or 4-8, as applicable) and to the identification bands on the wires.

#### (1) Removal

(a) Remove 16 screws (1, figure 4-10), 16 lockwashers (2) and 16 flat washers (3) securing cover (4) to switch box (5) and take cover off switch box.

#### **NOTE**

When disconnecting more than one wire, make sure wires are tagged to identify the load terminal to which they attach before disconnecting wires.

- (b) Working inside switch box (5), remove nut (6) and lockwasher (7) from terminal (8). Detach wire(s) (9) by sliding terminal lug(s) off stud.
- (c) Remove lockwasher (10), nut(11) and internal tooth lockwasher (12) and pull terminal (8) off terminal board (13).
- (d) Remove six screws (14), six lockwashers (15), six flat washers 16) and six nuts (17) and take terminal board (13) and gasket (18) off switch box (5).
- (2) Installation.
  - (a) Position gasket (18) and terminal board (13) on switch box (5) and fasten with six screws (14), six lockwashers (15), six flat washers (16) and six nuts (17).
  - (b) Insert terminal (8) through terminal board (13) and into switch box (5).
  - (c) Install internal tooth lockwasher (12) and nut(11) on terminal stud (8) and tighten against inside of terminal board (13).

#### **NOTE**

Observe identification tags when installing internal wires.

- (d) Slide lockwasher (10) and terminal lug(s) of wire(s) (9) onto stud (8).
- (e) Install lockwasher (7) and nut (6) on terminal (8) and tighten against wire terminal lug.
- (f) Position cover (4) on switch box (5) and secure with 16 screws (1), 16 lockwashers (2) and 16 flat washers (3).

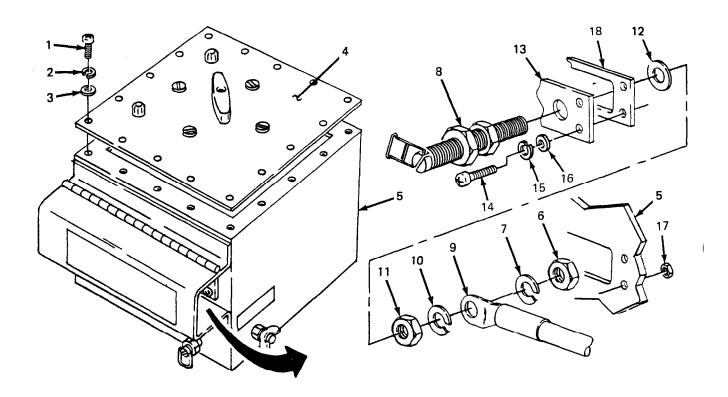


Figure 4-10. Load Terminal Replacement.

b. Indicator Light and Wire Assembly Repair and Replacement. (See figure 4-11.) There are two indicator light and wire assemblies on the switch box. This procedure is typical for both. When attaching wires, refer to the schematic inside the switch box (figure 4-7 or 4-8, as applicable). The indicator light and wire assembly is repaired by replacing defective terminals or soldering broken wires. Soldering shall be done in accordance with TB SIG 222.

## (1) Removal.

- (a) Remove 16 screws (1, figure 4-11), 16 lockwashers (2) and 16 flat washers (3) securing cover (4) to switch box (5) and take cover off switch box.
- (b) Remove screw (6), nut (7) and star washer (8) attaching each indicator light wire terminal (9) to its respective switch terminal (10). Take power cable wire (11) and indicator light wire (12) off switch terminal.

- (c) Unscrew nut(13) and internal tooth lockwasher (14) securing indicator light housing (15) to cover (4) and slide nut and lockwasher off wires.
- (d) Pull out light and wires through cover (4).

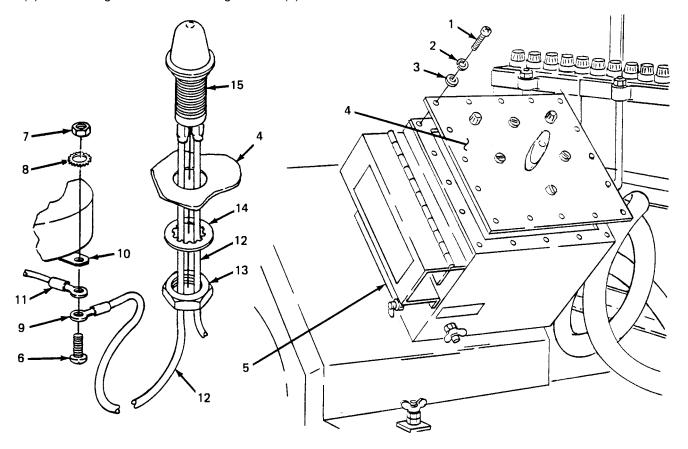


Figure 4-11. Indicator Light and Wire Replacement,

# (2) Installation.

- (a) Feed wires through hole in cover (4) and fit light housing (15) in hole.
- (b) Slide nut (13) and lockwasher (14) over both wires (12), thread onto light housing (14) on inside of cover (4) and tighten.

Position terminal (9) of each indicator light wire (12) against underside of switch terminal (10). Position terminal of power cable wire (11) against terminal of indicator Mht wire. Insert screw (6) up through wire terminals and "sw;tch terminal. Install star wa;her (8) and nut (7) on screw and tighten against switch terminal.

- (d) Position cover (4) on switch box (5) and secure with 16 screws (I), 16 lockwashers (2) and 16 flat washers (3).
- c. <u>Switch to Load Termina/Wire Replacement.</u> (See figure 4-12.) There are three wires connecting the switch to the load terminals. When attaching wires, refer to the schematic inside the switch box (figure 4-7 or 4-8, as applicable) and to the identification bands on the wires.

- (1) Removal.
- (a) Remove 16 screws (1, figure 4-12), 16 lockwashers (2) and 16 flat washers (3) securing cover (4) to switch box (5) and take cover off switch box
- (b) Remove nut (6) and lockwasher (7) from load terminal stud (8) inside switch box (5). Slide wire terminal (9) off stud.

#### **NOTE**

When removing more than one wire, tag switch terminals for identification.

- (c) Remove screw (10), nut (11) and star washer (12) securing wire terminals (13) to switch terminal (14). Take wire off switch.
- (2) Installation.

#### **NOTE**

Observe identification tags on switch terminals when installing wires.

- (a) Position wire terminal (13) against underside of switch terminal (14). Insert screw (10) up through wire terminal and switch terminal. Install star washer (12) and nut (11) on screw and tighten against switch terminal.
- (b) Slide terminal (9) at free end of wire onto load terminal stud (8) and secure with lockwasher (7) and nut (6).
- (c) Position cover (4) on switch box (5) and secure with 16 screws (I), 16 lockwashers (2) and 16 flat washers (3).

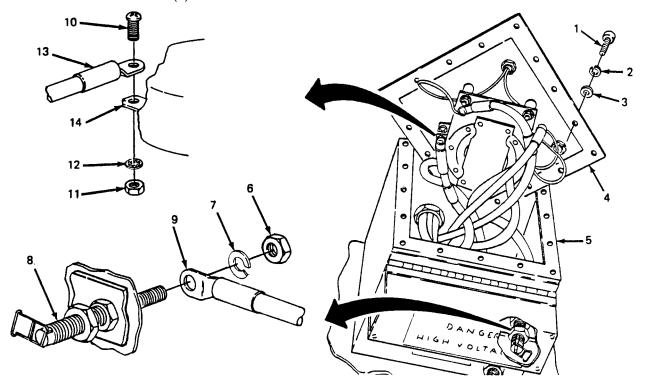


Figure 4-12. Switch to Load Terminal Wire Replacement.

- d. <u>Power Cable Replacement.</u> (See figure 4-13.) There are two power cables on the power plant one for each generator set. This procedure is typical for both. When attaching wires, refer to the schematic inside the switch box (figure 4-7 or 4-8, as applicable) and to the identification bands on each of the five wires that make up each cable.
  - (1) Removal.
    - (a) Disconnect power cable from load terminals on generator set. (Refer to TM 5-6115-584-12.)
    - (b) Remove 16 screws (1, figure 4-13),16 lockwashers (2) and 16 flat washers (3) securing cover (4) to switch box (5) and take cover off switch box.

#### NOTE

- Tag switch terminals for identification when removing wires. If identification bands on wires are illegible, tag wires.
- (c) Remove screw (6), nut (7) and star washer (8) attaching each of three wires (9) (black, red and blue) to its respective switch terminal (10). Take off wires.
- (d) Remove nut (11) and lockwasher (12) from load terminal L0 (13) inside switch box (5). Take off white wire (14) associated with power cable being removed.
- (e) Repeat step (d) for ground terminal EI and green wire (15).
- (f) Loosen power cable clamping nut (16) on outside of switch box (5) and pull cable through cable clamp and out of box.
- (2) Installation.
  - (a) Feed cable through cable clamping nut 16) and through hole into switch box (5).
  - (b) Tighten clamping nut (16) on outside of switch box (5) to prevent cable from moving.
  - (c) Slide terminal of white wire (14) onto load terminal L0 (12) and secure with lockwasher (12) and nut (11).
  - (d) Repeat step (c) for ground terminal E1 and green wire (15).

## NOTE

Observe identification tags when installing wires.

- (e) Position each of three wires (9) (black, red and blue) against underside of its respective switch terminal (10). Insert screw (6) up through wire terminal and switch terminal. Install star washer (8) and nut (7) on screw and tighten against switch terminal. Where an indicator light wire is also mounted to the switch terminal, the indicator light wire shall be positioned against the underside of the switch terminal and the power cable wire shall be positioned against the indicator light wire.
- (f) Position cover (4) on switch box (5) and secure with 16 screws 1), 16 lockwashers (2) and 16 flat washers (3).

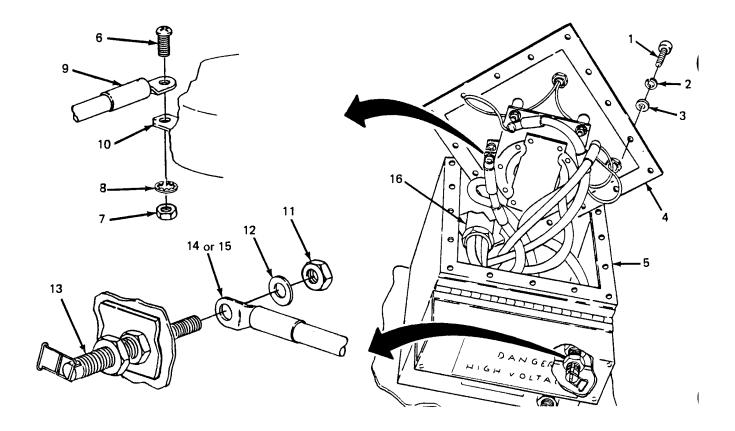


Figure 4-13. Power Cable Replacement.

- (g) Connect power cable to load terminals on generator set. (Refer to TM 5-6115-584-12.)
- e. <u>Ground Wire Replacement (5-Wire Switch Box)</u>. (See figure 4-14.) In the 5-wire switch box only, a wire connects load terminal LO to AC GROUND terminal E2 located on the side of the switch box below the terminal board.

## (1) Removal

- (a) Remove 16 screws (1, figure 4-14), 16 lockwashers (2) and 16 flat washers (3) securing cover (4) to switch box (5) and take cover off switch box.
- (b) Remove nut (6) and lockwasher (7) from load terminal L0 (8) inside switch box.
- (c) Slide power cable ground (white) wire terminals (9) and switch box ground wire terminal (10) off load terminal L0 (8).
- (d) Remove nut (11) and lockwasher (12) from AC GROUND terminal E2 (13) inside box. Remove ground wire terminal (14).

## (2) Installation

- (a) Install switch box ground wire terminal (14) on AC GROUND terminal E2 (13) and secure with lockwasher (12) and nut (11).
- (b) Install remaining box ground wire terminal (10) on load terminal L0 (8). Install power cable (white) wire terminals (9) on terminal L0 (8) and secure the three wires with lockwasher (7) and nut (6).
- (c) Position cover (4) on switch box (5) and secure with 16 screws (I), 16 lockwashers (2) and 16 flat washers (3).

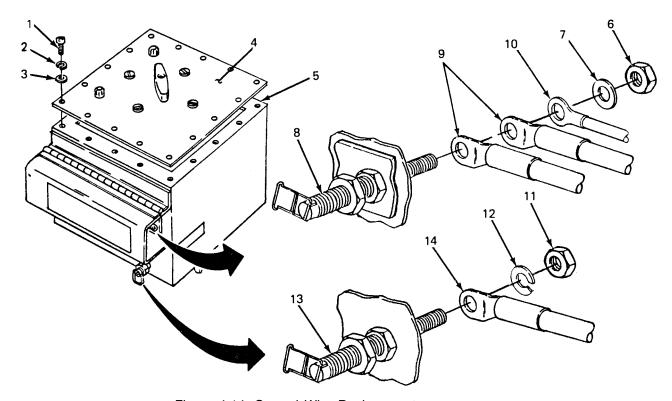


Figure 4-14. Ground Wire Replacement.

- **4-26.** Taillight Cable Assembly and Electrical Lead Repair and Replacement. One taillight cable assembly and one electrical lead connects each taillight to the trailer wiring harness. The taillight cable assembly and electrical lead are replaced by unplugging four connectors at each end. Repair is accomplished by replacing defective connectors. To manufacture a replacement cable assembly and electrical lead, install new connectors on suitable lengths of insulated wire using the procedures described for repair.
  - a. Male Connector Replacement. (See figure 4-15.)
    - (1) Slide shell (1) back on wire lead (2).

- (2) Remove washer (3).
- (3) Slide shell (1) off over contact (4).
- (4) Cut off contact (4).

#### **NOTE**

Be careful not to strip too much insulation from wire. Connector contact must be crimped onto insulation to hold securely.

- (5) Strip insulation off wire lead (2) equal to depth of new contact (4).
- (6) Slide shell (1) and washer (3) of new connector onto wire lead (2).
- (7) Slide contact (4) onto stripped wire and solder in accordance with TB SIG 222.
- (8) Crimp contact onto wire.
- (9) Slide shell (1) forward over washer (3) and contact (4).

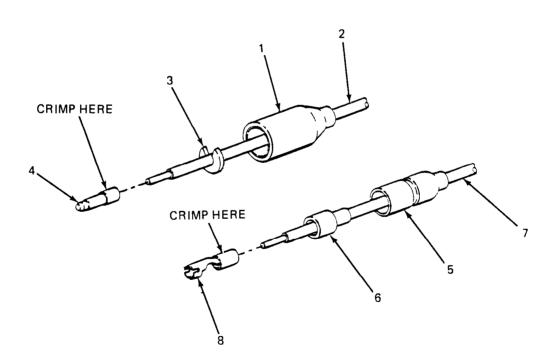


Figure 4-15. Taillight Cable Assembly and Electrical Lead Repair.

- b. Female Connector Replacement. (See figure 4-15.)
  - (1) Slide shell (5) and sleeve (6) back on wire lead (7).

- (2) Cut off contact (8).
- (3) Slide shell (5) and sleeve (6) off wire lead (7).

#### **NOTE**

Be careful not to strip off too much insulation. Connector contact must be crimped onto insulation to hold securely.

- (4) Strip insulation off wire lead (9) equal to depth of new contact (8).
- (5) Slide shell (5) and sleeve (6) onto wire lead (7).
- (6) Slide contact (8) onto stripped wire and solder in accordance with TB SIG 222.
- (7) Crimp contact onto wire.
- (8) Slide shell (5) and sleeve (6) forward over contact (8).

### **CHAPTER 5**

# INTERMEDIATE (FIELD), DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

#### Section I. INTRODUCTION

**5-1. General.** This chapter contains Intermediate Direct Support and General Support level maintenance procedures for components of the AN/MJQ-16 Power Plant which are not part of the basic generator sets or trailer. For all other intermediate direct and general support maintenance procedures on the trailer, refer to TM 9-2330-213-14&P. For intermediate direct and general support maintenance procedures on the generator set, refer to TM 5-6115-584-34.

#### WARNING

Before performing any maintenance that requires climbing on or under trailer, set trailer handbrakes, chock wheels and lower rear leg prop. Injury to personnel could result from trailer suddenly rolling or tipping.

#### Section II. MAINTENANCE OF POWER PLANT TRAILER

- **5-2.** Leg Prop Assembly Maintenance. Maintenance of the leg prop assembly at the Intermediate Direct Support and General Support level consists of repairing or replacing the assembly as required.
  - a. Leg Prop Assemb/y Replacement. (See figure 5-1.)
    - (1) Remova/.
      - (a) While supporting leg prop assembly, pull out angled bar (1, figure 5-1) and lower leg from traveling position.
      - (b) Line up boss (2) on upper leg (3) with holes in bracket (4) and insert angled bar (1) to lock leg in support position.
      - (c) Remove either one of two cotter pins (5) from leg prop assembly pivot shaft (6).
      - (d) While steadying leg prop assembly, remove shaft (6) with remaining cotter pin (5) in place.

#### WARNING

When angled bar is removed in step (e), leg prop assembly will fall from bracket if not supported. To prevent injury to personnel or damage to equipment, do not permit leg assembly to drop.

- (e) Lift leg assembly slightly to take weight off angled bar (1) and remove bar.
- (f) Lower leg assembly from bracket (4).
- (g) Remove three screws (7), three flat washers (8), three lockwashers (9) and three nuts (10) and remove bracket (4) from trailer frame (11).

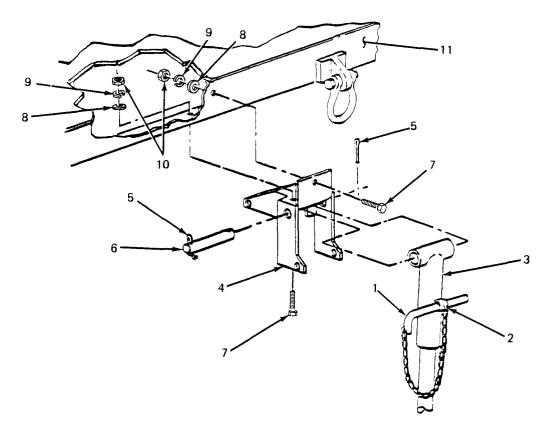


Figure 5-1. Leg Prop Assembly Replacement.

#### (2) Installation.

- (a) Position bracket (4) on trailer frame (11) and install three screws (7), three flat washers (8), three lockwashers (9) and three nuts (10). Tighten hardware to secure bracket.
- (b) Lift leg prop assembly into bracket (4) and secure by inserting angled bar (1) through holes in bracket and boss (2) on upper leg (3).
- (c) Position leg prop assembly to line up boss on top of leg with pivot holes in bracket (4). Insert pivot shaft (6).
- (d) Insert cotter pin (5) in pivot shaft (6) and bend cotter pin legs in opposite directions.
- (e) Pull out angled bar (1) to unlock leg prop assembly.
- (f) Swing leg prop assembly up into traveling position and secure by inserting angled bar
  - (1) through holes in bracket (4) and boss (2) on upper leg (3).
- b. Leg Prop Assembly Repair. (See figure 5-2.) Repair of the leg prop assembly is limited to welding and repainting. However, partial disassembly is possible to facilitate repair. If required, repaint in accordance with MI L-T-704, Type F, color Green No. 383 of MIL-C-46168.

- (1) Disassembly.
  - (a) Remove leg prop assembly from trailer (paragraph 5-2, a.(1)).
  - (b) Clamp leg prop assembly in vise with spring pin facing up.
  - (c) Using suitable drift, drive spring pin (1, figure 5-2) out of upper leg (2) and remove leg base (3).
- (2) Assembly.
  - (a) Clamp upper leg (2) in vise with spring pin hole facing up.
  - (b) Insert leg base (3) into upper leg (2) and turn leg base until hole in screw lines up with hole in upper leg.
  - (c) Install spring pin (1) to secure leg base to upper leg.
  - (d) Install leg prop assembly on trailer (paragraph 5-2, a. (2)).

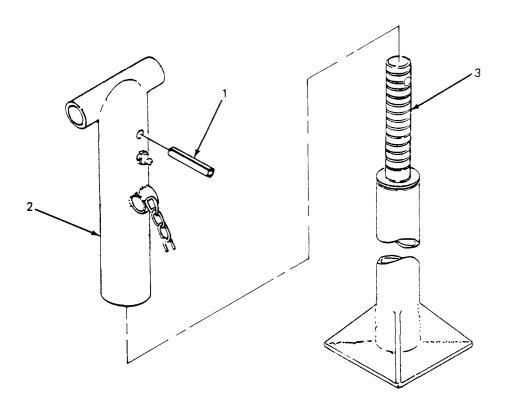


Figure 5-2. Leg Prop Disassembly.

**5-3. Trailer Bed and Fenders Repair and Replacement.** (See figure 5-3.) The body of the modified trailer consists of a single weidment that includes both fenders and the bed of the trailer.

#### a. Removal.

- (1) Remove fitted cover (paragraph 3-11, a.(1)).
- (2) Remove bow assemblies (paragraph 3-11, b.(1)).
- (3) Remove accessory box (paragraph 4-19, a.).
- (4) Remove switch box (paragraph 4-24, a.).
- (5) Remove both generator sets (paragraph 5-7, a.).
- (6) Working under trailer, unplug four connectors (1, figure 5-3) joining trailer main wiring harness (2) to roadside composite light cable assembly (3), and four connectors (4) joining cable assembly to composite light (5).
- (7) Repeat step (6) for curbside composite light cable assembly.
- (8) Remove two screws (6) and two lockwashers (7) securing each composite light (5) to its bracket (8) and remove both composite lights.
- (9) Remove eight screws (9), 16 flat washers (10) and eight nuts(11) securing each generator mounting rail (12) to trailer body (13) and remove both rails.
- (10) Remove cotter pin (14), nut (15) and flat washer (16) from each of two trailer lifting rings (17) and remove lifting rings.

#### NOTE

The two trailer body support brackets located at the front of the trailer are secured with only two screws and two flat washers each.

(11) Working under trailer, remove 16 screws (18),28 flat washers (19) and 12 nuts (20) securing trailer body support brackets (21) to trailer frame (22).

#### NOTE

There are 12 short screws and four long screws securing trailer body to trailer frame. Since corner screws must extend through trailer frame rails, corner mounting locations require longer screws (step (13)).

- (12) Remove 12 screws (23),24 flat washers (24) and 12 nuts (25) securing trailer body (13) to trailer frame (22).
- (13) Remove four long screws (26), eight flat washers (27) and four nuts (28) securing trailer body (13) to trailer frame (22) at corner mounting locations.

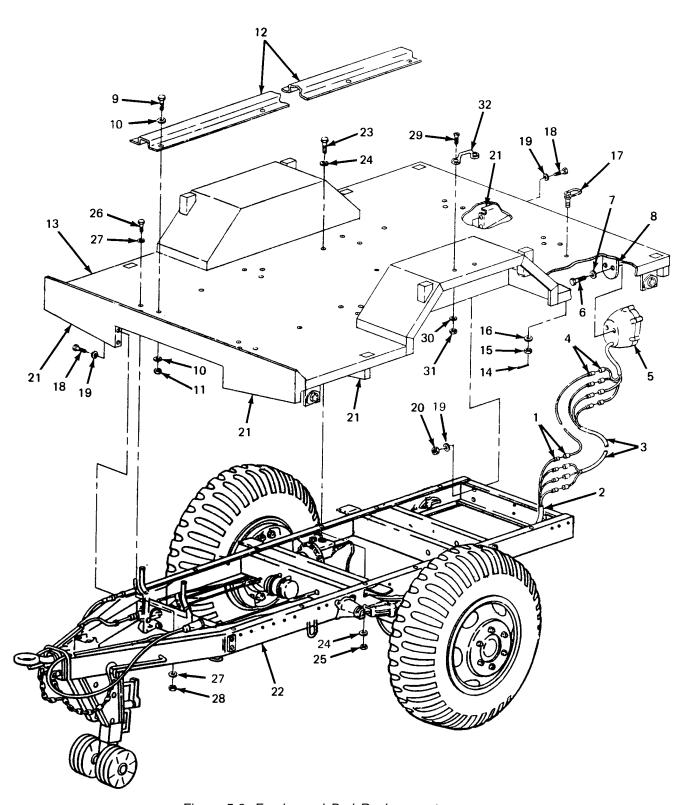


Figure 5-3. Fender and Bed Replacement.

#### WARNING

When lifting trailer body, use lifting equipment with a minimum lifting capacity of 1500 lb. Do not stand under trailer body while it is being lifted. Failure to observe these precautions can cause injury to personnel or damage to equipment.

- (14) Using lifting equipment with a minimum lifting capacity of 1500 lb, lift trailer body (13) off trailer frame (22).
- b. <u>Repair.</u> Repair of the trailer bed and fenders is limited to replacement of footmans loops and straightening, welding, and repainting bed and fender weldment. If required, repaint in accordance with MIL-T-704, Type F or G, as applicable, color Green, No. 383 of MIL-C-46168. There is one footmans loop mounted to the top of each fender. Replace footmans loop as follows:
  - (1) Remove two screws (29), two flat washers (30) and two self-locking nuts (31) securing footmans loop (32) to fender and take off footmans loop.
  - (2) Position new footmans loop (32) on fender and secure with two screws (29), two flat washers (30) and two self-locking nuts (31).

#### c. Installation.

#### WARNING

When lifting trailer body, use lifting equipment with a minimum lifting capacity of 1500 lb. Do not stand under trailer body while it is being lifted. Failure to observe these precautions can cause injury to personnel or damage to equipment.

Using lifting equipment with a minimum lifting capacity of 1500 lb, lift trailer body (13) onto trailer frame (22) and aline mounting holes.

#### **NOTE**

There are 12 short screws and four long screws, securing trailer body to trailer frame. Since corner screws must extend through trailer chassis rails, corner mounting locations require longer screws (step (2)).

- (2) Working on top of trailer body, insert four long screws (26) with one flat washer (27) each through trailer body (13) and trailer frame (22) rails at corner mounting locations.
- (3) Insert 12 screws (23) with one flat washer (24) each through trailer body (13) and rails of trailer frame (22).
- (4) Working under trailer, install one flat washer (24 and 27) and one nut (25 and 28) on each of 16 screws installed in steps (2) and (3). Tighten hardware to secure trailer body (13) to trailer frame (22).
- (5) Install and tighten two screws (18) and two flat washers (19) securing each of two front trailer body support brackets (21) to trailer frame (22).
- (6) Install and tighten 12 screws (18), 24 flat washers (19) and 12 nuts (20) securing remaining trailer body support brackets (21) to trailer frame (22).

- (7) Insert one lifting ring (17) into each of two mounting holes in trailer body (13) and secure with one flat washer (16) and one nut (15). Install one cotter pin (14) in each nut (15) and spread cotter pin ends.
- (8) Position two generator set mounting rails (12) on trailer body (13). Insert eight screws (9) with eight flat washers (10) through each mounting rail and through trailer bed and frame (22).
- (9) Working under trailer, install one flat washer (10) and one nut (11) on each of 16 mounting rail screws (9) and tighten.
- (10) Position one composite light (5) on each rear mounting bracket (8) and secure each light with two screws (6) and two lockwashers (7).
- (11) Working under trailer, connect one composite light cable assembly (3) to each composite light (5) by plugging four cable assembly connectors into four composite light connectors (4). Plug four connectors at opposite end of each cable assembly into four connectors (1) on trailer main wiring harness (2).
- (12) Install both generator sets (paragraph 5-7, b.).
- (13) Install switch box (paragraph 4-24, b.).
- (14) Install accessory box (paragraph 4-19, b.).
- (15) Install six bows (paragraph 3-11, b(2)).
- (16) Install fitted cover (paragraph 3-11, a(2)).
- **5-4. Fitted Cover Repair.** Repairs to the fitted cover shall be made in accordance with FM 10-16., Fabric Repairing.
- **5.5. Accessory Box Repair.** (See figure 5-4.) The accessory box is repaired by replacing the hasp, the catches and the footmans loops, as required. The box itself may be straightened, welded, and repainted. If required, repaint in accordance with MIL-T-704, Type F, color Green, No. 383 of MIL-C-46168.
  - a. Catch and Hasp Replacement.
    - (1) Grind off or drill out solid rivets (1, figure 5-4) securing catch or hasp (2) to accessory box (3).
    - (2) Position new catch or hasp (2) on accessory box and secure with solid rivets (1).
    - (3) Touch up with paint as required.

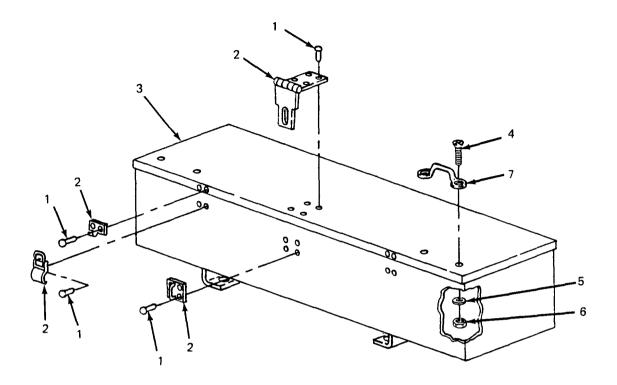


Figure 5-4. Accessory Box Repair.

#### b. Footmans Loop Replacement.

- (1) Remove two screws (4, figure 5-4), two flat washers (5), and two self-locking nuts (6) securing footmans loop (7) to accessory box lid.
- (2) Position new footmans loop (7) on accessory box (3) and install two screws (4) two washers (5), and two self-locking nuts (6).
- 5.6. **Marking.** (See figure 5-5.) The power plant four-digit registration number, preceded by the prefix "VC" and the words "U.S. ARMY, " is marked in three places on the trailer. Marking is done in accordance with MIL-STD-642. On the fender, over each wheel, "T.P. 50 PSI" is marked in 1.00 ± .12 inch high characters in accordance with MIL-STD-130. On the switch box, "GEN 1", "GEN 2" and "OFF" are marked on the cover at their respective switch lever positions, and "E1" and "E2" are marked next to their respective ground terminal studs. Figure 5-5 shows the approximate location of markings on the power plant. If required, touch-up painting of the base color shall be done in accordance with MIL-T-704, Type F, color Green, No. 383 of MIL-C-46168.

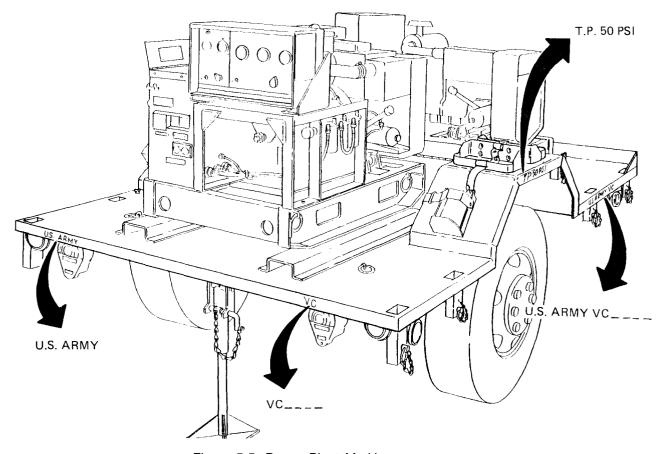


Figure 5-5. Power Plant Markings.

# Section III. GENERATOR SET

- **5-7. Generator Set Replacement.** (See figures 5-6 and 5-7.) Power Plant AN/MJQ-16 has two generator sets. Replacement procedures are identical for both.
  - a. Removal.
    - (1) Remove fitted cover (paragraph 3-11, a.(1)).
    - (2) Remove six bow assemblies (paragraph 3-11, b.(1)).
    - (3) Disconnect all power cable and ground wires (1, figure 5-6) from generator set (2).

#### **NOTE**

The beveled washers (4) may have been welded in place.

(4) Remove four screws (3) and four beveled washers (4), securing generator set (2), to mounting rails (5) on trailer bed (6).

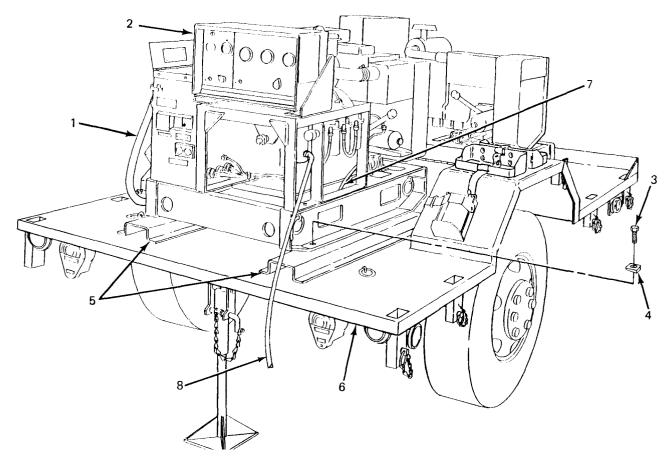


Figure 5-6. Detaching Generator Set from Trailer.

- (5) Remove engine oil drain hose (7) from grommet in trailer bed (6).
- (6) Disconnect auxiliary fuel line (8), if connected.

#### WARNING

When lifting generator set, use lifting equipment with a minimum lifting capacity of 1500 lb. Do not stand under generator while it is being lifted. Failure to observe these precautions can cause injury to personnel or damage to equipment.

(7) Attach lifting equipment with a minimum lifting capacity of 1500 lb. (1, figure 5-7) to lifting eye (2) on top of generator set (3) and remove generator set from trailer.

#### b. Installation.

#### WARNING

When lifting generator set, use lifting equipment with a minimum lifting capacity of 1500 lb. Do not stand under generator while it is being lifted. Failure to observe these precautions can cause injury to personnel or damage to equipment.

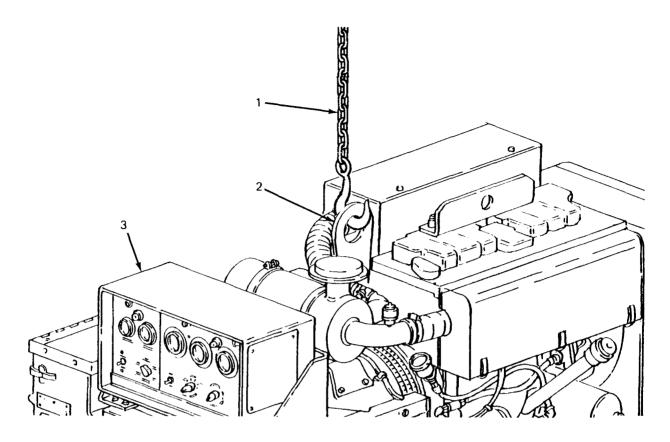


Figure 5-7. Lifting Generator Set.

- Attach lifting equipment with a minimum lifting capacity of 1500 lb (1, figure 5-7) to lifting eye (2) on top of generator set (3) and lift generator.
- (2) Lower generator set (2, figure 5-6) onto mounting rails (5) on trailer bed (6) and aline mounting holes.
- (3) Insert four screws (3) with beveled washers (4) down through generator set skid into nuts welded to underside of mounting rails (5).
- (4) Position beveled washers (4) so that screw heads are parallel to tops of washers. While holding beveled washers in position, tighten hardware to secure generator set (2) to trailer (6).
- (5) Insert engine oil drain hose (7) through grommet in trailer bed (6).
- (6) Install six bow assemblies (paragraph 3-11, b.(2)).
- (7) Install fitted cover (paragraph 3-11, a.(2)).

#### Section IV. MAINTENANCE OF ELECTRICAL SYSTEM

**5.8. Switch Box Repair.** (See figure 5-8,) Repairs to the switch box require disconnecting wires. When reconnecting wires, refer to the schematic inside the switch box (figure 4-7 or 4-8, as applicable).

#### WARNING

Make sure generator set circuit breakers are in OFF position before performing any repairs on switch box. Failure to observe this precaution may result in injury or death by electrocution.

a. Switch Replacement. (See figure 5-8.)

#### NOTE

Replacement switch will have unmarked terminals and will have to be compared with original switch.

- (1) Removal.
  - (a) Remove 16 screws (1, figure 5-8),16 lockwashers (2) and 16 flat washers (3) securing cover (4) to switch box (5) and take cover, with switch (6) attached, off switch box.

#### **NOTE**

Make sure identification bands on wires are legible before disconnecting wires from switch. Tag switch terminals and all unmarked wires. Replacement switch will have unmarked terminals and will have to be compared with original switch.

- (b) Disconnect all wires from switch (6) by removing one screw (7), one nut (8) and one star washer (9) from each switch terminal.
- (c) Remove screw (10) securing knob (11) to switch (6) and take off knob.
- (d) Remove four screws (12), four nuts (13), eight flat washers (14) and preformed packing (15) securing switch (6) to cover (4) and take switch off cover.
- (2) Installation.
  - (a) Position switch (6) on inside of cover (4). Insert four screws (12) with one flat washer(14) and one preformed packing (15) each through cover and switch standoffs.
  - (b) Install one flat washer (14) and one nut (13) on each screw (12) and tighten.
  - (c) Position knob (11) on switch (6) and install screw (10).

#### **NOTE**

Observe identification bands on wires when reconnecting wires.

- (d) Connect indicator light wires to switch (paragraph 4-25, b.(2)).
- (e) Connect power cables to switch (paragraph 4-25, d.(2)).
- (f) Connect load terminal wires to switch (paragraph 4-25, c.(2)).
- (9) Position cover (4) on switch box (5) and secure with 16 screws (1), 16 lockwashers (2) and 16 flat washers (3).

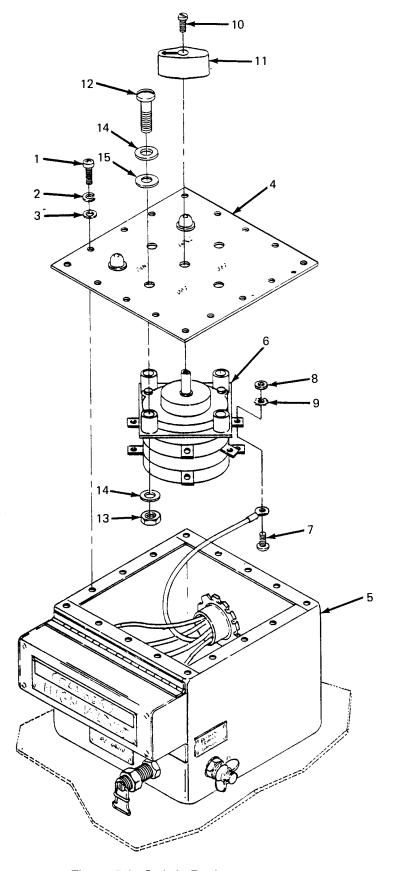


Figure 5-8. Switch Replacement.

#### TM 5-6115-631-14&P

b. <u>Power Cable and Wiring Repair.</u> The switch box wiring is repaired by tightening or replacing loose or damaged terminals. The power cables are repaired by replacing damaged terminals. The repair parts and special tools list in this manual lists part numbers for the terminals. The replacement terminals are soldered onto the wires in accordance with procedures given in TB SIG 222 (TO 31-3-64) and TM 55-1500-323-25 (TO 1-1A-14).

#### **CHAPTER 6**

#### TEST AND INSPECTION AFTER REPAIR

#### Section I. GENERAL REQUIREMENTS

**6-1. General Requirements.** The activity performing the repair is responsible for the performance of all applicable tests and inspections specified in the technical manuals referenced below. Activities performing maintenance on any component of the power plant must perform those tests and inspections required by the applicable component or system repair instruction.

#### Section II. INSPECTION

- **6-2. Generator Set Inspections.** Refer to TM 5-6115-584-12 and --34 for inspections required following repair of the generator set.
- **6-3. Trailer Inspections.** Refer to TM 9-2330-213-14&P for inspections required following repair of the trailer.

#### **Section III. OPERATIONAL TESTS**

- **6.4. Generator Set Operational Tests.** Refer to TM 5-6115-584-12 and 34 for operational tests required to verify satisfactory performance of the generator set.
- **6.5. Trailer Operational Tests.** Refer to TM 9-2330-213-14&P for operational tests required to verify satisfactory performance of the trailer.

# APPENDIX A REFERENCES

**A-1. Scope.** This appendix lists all pamphlets, forms, technical manuals, specifications and miscellaneous publications referenced in this manual.

#### A-2. Forms and Records.

Air Force Maintenance Management Program  Technical Order System Publication Improvement Report	
and Reply	
Depreservation Guide for Vehicles and Equipment	DA Form 2258
Equipment Inspection and Maintenance Worksheet	DA Form 2407
Consolidated Index of Army Publications	
Product Quality Deficiency Report	SF 368
A-3. Military Specifications.	
Chemical Agent Resistant Aliphatic Polyurethane Coating	MIL-C-46168
Identification Marking of U.S. Military Property	MIL-STD-130 MIL-STD-642
Treatment and Painting of Materiel	MIL-T-704
A-4. Technical Manuals.	
General Fabric Repair	FM 10-16
Operator and Organizational Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 5 KW,	
1 Phase, 2 Wire; 1 Phase, 3 Wire; 3 Phase, 4 Wire; 120, 12/240	
and 120/208 V (DOD Model MEP-002A) Utility Class 60 HZ (NSN 6115-00-465-1044)	TM 5-6115-584-12
Organizational, Intermediate (Field) Direct Support and General	
Support and Depot Level Maintenance Repair Parts and Special Tools List: for Generator Set Diesel Engine Driven, Tactical,	
Skid Mounted, 5 KW, 1 Phase, 2 Wire, 1 Phase, 3 Wire; 3	
Phase, 4 Wire, 120, 120/240 and 120/208 V (DOD Model MEP-002A) Utility Class, 60 HZ (NSN 6115-00-465-1044)	TM 5-6115-584-24P
Intermediate (Field) (Direct and General Support) and Depot	5 51.15 55.1 =
Level Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 5 KW, 1 Phase, 2 Wire;	
1 Phase, 3 Wire; 3 Phase, 4 Wire, 120, 120/240 and 120/208 V	
(DOD Model MEP-002A), Utility Class, 60 HZ (NSN 6115-00-465-1044)	TM 5-6115-584-34
Installation Practices for Aircraft Electric and Electronic	
Wiring [TO 1-1A-14]  Procedures for Destruction of Equipment to Prevent	I.M 55-1500-323-25
Enemy Use (Mobility Equipment Command)	TM 750-244-3

# TM 5-6115-631-14&P

Operator's, Organizational, Direct Support and General Support	
Maintenance Manual (Including Repair Parts and Special Tools	
List) for Chassis Trailer 1-1/2-Ton, 2-Wheel, M103A1	
(NSN 2330-00-835-8620), M103A2 (2330-00-049-8050), M103A3	
(2330-00-141-8052), M103A3C (2330-00-542-2181), M103A4,	
(2330-00-141-8051), M103A4C (233-00-542-2182); Trailer,	
Cargo; M104 (2330-00-754-0509), M104A1 (2330-00-835-8630),	
M105A1 (2330-00-835-8631), M105A2 (2330-00-141-8050)	
M105A2C (2330-00-542-5689); Trailer Tank, Water, 400 Gallon,	
M107A1 (2330-00-835-8633) M107A2 (2330-00-141-8049),	
M107A2C (2330-00-542-5688) and Trailer, Van, Shop, Folding	
Sides, M448(2330-00-63 1-5692)	TM 9-2330-213-14&P
Organizational, Direct Support, and General Support Care	
Maintenance and Repair of Pneumatic Tires and Inner	
Tubes	TM 9-2610-200-24
Air Force Technical Order System	TO-00-5-1
Painting and Marking of USAF Aerospace Ground Equipment	TO 35-1-3
Processing and Inspection of Aerospace Ground Equipment	
for Storage and Shipment	TO 35-1-4
Processing and Inspection of Non-Mounted, Non-Aircraft	
Gasoline and Diesel Engines for Storage and Shipment	TO 38-1-5
A-5. Technical Bulletins.	
Solder and Soldering [TO 31-3-64]	TB SIG 222
Preservation of USAMECOM Mechanical Equipment for	TD = 40 0= 0
Shipment and Storage	TB 740-97-2

# APPENDIX B COMPONENTS OF END ITEM LIST AND BASIC ISSUE ITEMS LIST Section I. INTRODUCTION

- **B-1. Scope.** This appendix lists components of end item and basic issue items for the power plant to help you inventory items required for safe and efficient operation.
- B-2. General. The Components of End Item and Basic Issue Items Lists are divided into the following sections:
- a. <u>Section II. Components of End Item.</u> This listing is for informational purposes only, and is not authority 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. <u>Section III. Basic Issue Items.</u> These are the minimum essential items required to place the power plant in operation, to operate it, and to perform emergency repairs. Although shipped separately packaged, Bll must be with the power plant 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 Bll, based on TOE/MTOE authorization of the end item.
- **B-3.** Explanation of Columns. The following provides an explanation of columns found in the tabular listings:
  - a. Column (1). Illustration Number (Illus No.). This column indicates the number assigned to the. item.
  - b. Column (2). National Stock Number. Indicates the National stock number assigned to the item.
- c. <u>Column (3)</u>. <u>Description</u>. Indicates the federal item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the FSCM (in parentheses) followed by the part number.

If item needed differed for different models of this equipment, the model would be shown under the "Usable on Code" heading in this column. The Usable On Code is not applicable for this equipment.

- d. <u>Column (4). Unit of Measure (U/M)</u> Indicates the measure used in performing the actual operational/maintenance function. This measure is expressed by a two-character alphabetical abbreviation (eg, ea, in, pr).
- e. <u>Column (5). Quantity Required(Qty Req'd).</u> Indicates the quantity of the item authorized to be used with/on the equipment.

# Section II. COMPONENTS OF END ITEM

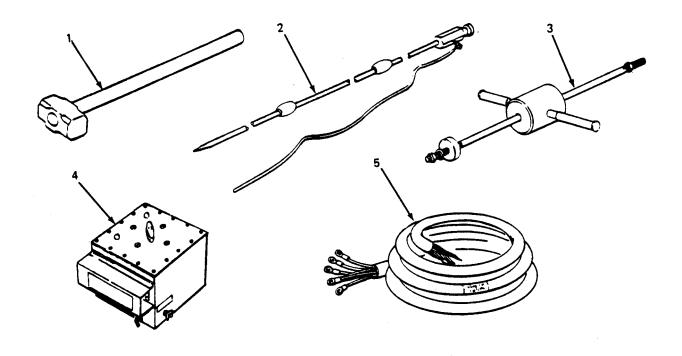


Figure B-1. Components of End Item

(1) ILLUS/ NO.	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION FSCM AND PART NUMBER	USABLE · ON CODE	(4) U/M	(5) QTY RQR
1	5120-00-243-2957	Hammer, Hand, Engineers, 10 lb. (3.6 kg) (81348) GGG-H-86		EA	1
2	5975-00-878-3791	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) (81348) MIL-R-11461		EA	2
3	5120-01-013-1676	Hammer, Slide(97403) 13226E7741		EA	1
4		Switch Box (97403) 13220E4459 or		EA	1
		Switch Box (97403) 13212E3601-2		EA	1
5		Cable Assembly (97403) 13220 E4460–1 and		EA	1
		Cable Assembly (97403) 13220 E4461–1 or		EA	1
		Cable Assembly (97403) 13227E0121–1 and		EA	1
		Cable Assembly (97403) 13227E0121-2 or		EA	1
		Cable Assembly (97403) 13226 E5888–1 or		EA	1
		Cable Assembly (97403) 13226E5888-2		EA	1

# **Section III. BASIC ISSUE ITEMS**

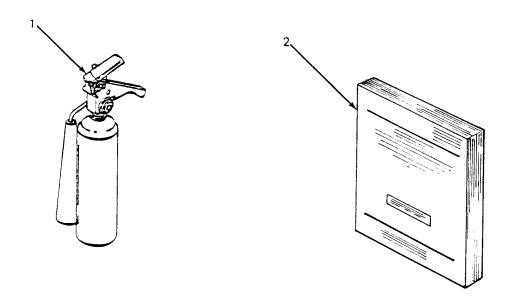


Figure B-2. Basic Issue Items

(1) Illus no.	(2) National stock number	(3) Description FSCM and part number	Usable on code	(4) U/M	(5) Qty'd req'd
1	4210-00-555-8837	Extinguisher, Fire, Hand, 2-3/4 lb. (1.25 kg) (81349) MIL-E-52031		EA	2
2		Manual, Technical TM 5-6115- 631-14&P		EA	1

#### APPENDIX C

### MAINTENANCE ALLOCATION CHART

#### Section I. INTRODUCTION

#### C-1. General.

- a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.
- b. Section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.
- c. Section III lists the tools and test equipment required for each maintenance function as referenced from Section II.
- d. Section IV contains supplemental instructions, explanatory notes and/or illustrations required for a particular maintenance function.

#### C-2. Explanation of Columns in Section H.

- a. Group Number. Column 1. The assembly group is a numerical group assigned to each assembly in a top down breakdown sequence. The applicable assembly groups are listed on the MAC in disassembly sequence beginning with the first assembly removed in a top down disassembly sequence.
- b. Assembly Group. Column 2. This column contains a brief description of the components of each assembly group.
- c. <u>Maintenance Functions</u>. Column 3. This column lists the various maintenance functions (A through K) and indicates the lowest maintenance category authorized to perform these functions. The symbol designations for the various maintenance categories are as follows:
  - C Operator or crew
  - O Unit maintenance
  - F Intermediate direct support maintenance
  - H Intermediate general support maintenance
  - D Depot maintenance

The maintenance functions are defined as follows:

- A Inspect. To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.
- B Test. To verify serviceability and to detect electrical or mechanical failure by use of test equipment.
- C Service. To clean, to preserve, to charge, and to add fuel, lubricants, cooling agents, and air. If it is desired that elements, such as painting and lubricating, be defined separately, they may be so listed.

- D Adjust. To rectify to the extent necessary to bring into proper operating range,
- E Aline. To adjust specified variable elements of an item to bring to optimum performance.
- F Calibrate. To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement. Consists of the comparison 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 with the certified standard.
- G Install. To set up for use in an operational environment such as an emplacement, site, or vehicle.
  - H Replace. To replace unserviceable items with serviceable like items.
- I Repair. Those maintenance operations necessary to restore an item to serviceable condition through correction of material damage or a specific failure. Repair may be accomplished at each category of maintenance.
- J Overhaul. Normally, the highest degree of maintenance performed by the Army in order to minimize time work in process is consistent with quality and economy of operation. It consists of that maintenance necessary to restore an item to completely serviceable condition as prescribed by maintenance standard in technical publications for each item of equipment. Overhaul normally does not return an item to like new, zero mileage, or zero hour condition.
- K Rebuild. The highest degree of material maintenance. It consists of restoring equipment as nearly as possible to new conditions in accordance with original manufacturing standards. Rebuild is performed only when required by operational considerations or other paramount factors and then only at the depot maintenance category. Rebuild reduces to zero the hours or miles the equipment, or component thereof, has been in use.
- d. <u>Symbols</u>. The uppercase letter placed in the appropriate column indicates the lowest level at which that particular maintenance function is to be performed.
- e. *Tools and Equipment. Column 4.* This column is provided for referencing by code, the special tools and test equipment, (Section III) required to perform the maintenance functions (Section II).
- f. Remarks. Column 5. This column is provided for referencing by code, the remarks (Section IV) pertinent to the maintenance functions.
- **C-3. Explanation of Columns in Section III.** Section III, Tools, Test, and Support Equipment Requirements is not applicable.
- C-4. Explanation of Columns in Section IV. Section IV, Remarks, is not applicable.

# Section II. MAINTENANCE ALLOCATION CHART

(1)	(2)				Mai	ntena	(3) nce fur	nction	s				(4)	(5)
		Α	В	С	D	Е	F	G	н	ı	J	к		
Group no.	Assembly group	Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild	Tools and equipment	Remarks
01	ENCLOSURE													-
	Fitted Cover	C 0.1							C 0.5	F 1.0				
	Bows	C 0.1							C 0.1					
02	GENERATOR SET	C 0.2		C 2.0					F 3.0					See TM 5- 6115-584- 12, — 34 for generator set main-
03	ELECTRICAL SYSTEM													tenance
0301	Switch Box	C 0.1	O 0.5						O 0.5	F 2.0				
	Switch		O 0.5						F 1.0					
	Load Terminals								O 0.5					
	Wiring	O 0.2	O 0.5						O 1.0	F 1.0				
	Light and Wire Assembly		O 0.2						O 0.4	O 0.4				
04	ACCESSORIES													
	Sledge Hammer	C 0.1							C 0.1					
	Fire Extinguisher	C 0.1							C 0.1					
	Slide Hammer	C 0.1							C 0.1					
	Ground Rods	C 0.1							C 0.1					

# TM 5-6115-631-14&P

(1)	(2)				Mai	ntena	(3) nce fu	nction	ıs				(4)	(5)
		Α	В	С	D	E	F	G	Н	ı	J	К		
Group no.	Assembly group	Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild	Tools and equipment	Remarks
05	TRAILER	С	0	С										See TM 9-
	ASSEMBLY Accessory Box	0.5	1.0	0.5					O 0.5	F 2.0				2330-213- 14&P for trailer as- sembly main- tenance
	Fuel Can/Fire	С							0					tonanco
	Ext. Brackets	0.1							0.5					
	Bed/Fenders								F 4.0	F 4.0				
	Reflectors	C 0.1							O 0.5					
	Data Plates								O 0.2					
	Leg Prop Assembly	C 0.1		O 0.2					F 0.5	F 0.7				
	Lighting Handbrake	C 0.1 C 0.1	O 0.3						O 1.0	O 0.5				

#### APPENDIX D

# UNIT, INTERMEDIATE (FIELD) (DIRECT SUPPORT AND GENERAL SUPPORT) AND DEPOT MAINTENANCE REPAIR PARTS AND SPECTIAL TOOLS LIST

#### **Section I. INTRODUCTION**

- **D-1. Scope.** This joint Army and Air Force manual lists repair parts and special tools required for the performance of unit, intermediate (field) (direct and general support) and depot maintenance of the power plant. The following paragraphs are keyed to applicable users. All users should read paragraph 4, Special Information, prior to using this manual.
- D-2. General. Repair Parts and Special Tools List is divided into the following sections:
- a. (<u>ALL) Repair Parts Section II.</u> A list of repair parts authorized for the performance of maintenance at the unit, intermediate (field) (direct and general support) and depot level in figure and item number sequence.
- b. (ALL) Special Tools, Test and Support Equipment Section III. A list of special tools, test and support equipment authorized for the performance of maintenance at the unit, intermediate (field) (direct and general support), and depot level.
- c. <u>National Stock Number and Reference Number Index Section IV.</u> A list of National stock numbers in numerical sequence, followed by a list of reference numbers appearing in all the listings, in alphanumeric sequence, cross-referenced to the illustration figure number and item number.
- d. <u>Reference Designator Index Section V.</u> The reference Designator Column includes all assigned reference designators arranged first in alphabetical order, second in numeric order. Opposite each symbol is listed the figure and item number of the part in Section II and the reference number.
- **D-3. Explanation of columns.** The following provides an explanation of columns in the tabular lists in Sections II and III.
  - a. (ALL) Illustrations, (Column 1). This column is divided as follows:
    - (1) Figure Number. Indicates the figure number of the illustration on which the item is shown.
    - (2) Item Number. Indicates the number used to identify the item on the illustration.
  - b. (ALL) Source, Maintenance, and Recoverability Codes (SMR), (Column 2).
    - (1) Uniform Source Codes applicable to all Military Services.

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

Code	Definition
PA	Item procured and stocked for anticipated or known usage.
РВ	Item procured and stocked for insurance purposes because essentiality dictates that a minimum quantity be available in the supply systems.
PC	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
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 stocked for initial issue or outfittings 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 at the time of overhaul or repair.
KF	An item of maintenance kit and not purchased separately.  Maintenance kit defined as a kit that provides an item that can be replaced at unit or intermediate levels of maintenance.
КВ	Item included in both a depot overhaul/repair kit and a maintenance kit.
MO	Item to be manufactured or fabricated at unit level.

Code	Definition
MF	Item to be manufactured or fabricated at intermediate maintenance levels.
	Air Force – Intermediate (*) Army - General Support (*)
MD	Item to be manufactured or fabricated at depot maintenance level.
AO	Item to be assembled at unit level.
AF	Item to be assembled at intermediate maintenance levels.
	Air Force – Intermediate (*) Army – Direct Support (*)
АН	Item to be assembled at intermediate maintenance levels.
	Air Force – Intermediate (*) Army – General Support (*)
AD	Item to be assembled at depot maintenance level.
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
ХВ	Item is not procured or stocked. If not available through salvage, requisition.
XC	Installation drawings, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
XD	A support item that is not stocked. When required, item will be procured through normal supply channels.

# (\*) 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 jointing service will denote intermediate maintenance to USAF and USA Safeguard Program.

(2) Uniform Maintenance Codes applicable to all Military Services: GENERAL Maintenance Codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The Maintenance Codes are in the third and fourth position of the Uniform SMR Code Format.

#### TM 5-6115-631-14&P

(a) Use (Third Position): The Maintenance Code entered in the third position indicates the lowest level maintenance level authorized to remove, replace, and use the support item. The Maintenance Code entered in the third position indicates one of the following levels of maintenance.

Code	Application/Explanation
0	Support item is removed, replaced, used at the unit level of maintenance.
F	Support item is removed, replaced, used at the following intermediate levels:
	USAF – Intermediate (*) USA - Direct Support (*)
Н	Support item is removed, replaced, used at the following intermediate levels:
	USAF - Intermediate (*) USA - General Support (*)
Code	Definition
D	Support items that are removed, replaced, used at Depot only:
	USAF – Depot, Mobile Depot and Specialized Repair Activity. USA – Depot, Mobile Depot and Specialized Repair Activity

- (b) Repair (Fourth Position): The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions).
  - O The lowest maintenance level capable of complete repair of the support item is the unit level.
  - F The lowest maintenance level capable of complete repair of the support item is the following intermediate level:

```
USAF - Intermediate (*)
USA - General Support (*)
```

H The lowest maintenance level capable of complete repair of the support item is the following intermediate level:

```
USAF - Intermediate (*)
USA - General Support (*)
```

# (\*) NOTE

For USAF programs and the USA Safeguard Program, 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 to USAF and the USA Safeguard Program.

Code	Definition
D	The lowest maintenance level capable of complete repair of the support item is the depot level.
	USAF - Depot, Mobile Depot, and Specialized Repair Activity. USA - Depot, Mobile Depot, and Specialized Repair Activity.
Code	Application/Explanation
L	Repair restricted to designated Specialized Repair Activity.
Z	Nonreparable. No repair is authorized.
В	No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.

(3) Uniform Recoverability Codes applicable to all Military Services: GENERAL: Recoverability Codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the uniform SMR Code Format as follows:

Recoverability Codes	Definition
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in column 3.
0	Reparable item. When uneconomically reparable, condemn and dispose at unit level.
F	Reparable item. When uneconomically reparable, condemn and dispose at the following intermediate levels:
	USAF – Intermediate (*) USA – Direct Support (*)
Н	Reparable item. When uneconomically reparable, condemn and dispose at the following levels:
	USAF – intermediate (*) USA – General Support (*)

#### (\*) NOTE

For USAF programs and the USA Safeguard Program, 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 level of USAF and the USA Safeguard Program.

Recoverability Codes	Definition						
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.						
L	Reparable item. Repair, condemnation and disposal not authorized below depot/Specialized Repair Activity level.						
Α	Item requires special handling or condemnation procedure because of specific reasons (i.e., precious metal content, high-dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions.						

- c. (ALL) /Vational Stock Number (Column 4). Indicates the National Stock Number assigned to the item and will be used for requisitioning purposes.
- d. (ALL) Description (Column 5). Indicates the Federal item name and any additional descriptions of the item required. The abbreviation "w/e" when used as part of the nomenclature, indicates that the National Stock Number includes all armament, equipment, accessories and repair parts issued with the item. A part number or other reference number is followed by the applicable five digit Federal Supply Code for manufacturer in parentheses. If two reference numbers and Federal Supply Codes for manufacturer are listed, the first listing refers to the Department of Defense Drawing Number, the second listing refers to the actual part manufacturer. Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item in the kit or set indicated in the quantity incorporated in unit column.
- e. (ALL) Unit of Measure (U/M) (Column 6). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc.). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.
- f. (ALL) Quantity Incorporated in Unit (Column 7). Indicates the quantity of the item used in the assembly group. A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e.g., shims, spacers, etc.).

#### D-4. Special Information.

- a. (ALL) Identification of Usable On Codes for this Manual is not applicable.
- b. Army unit maintenance personnel will extract the items which they require from Section II, 3rd or 4th position of column 2 of the intermediate direct and general support RPSTL. Parts which are manufactured or assembled at a higher level than that authorized to install the part are indicated by the use of higher level code in the source column.

#### c. Stockage Information.

- (1) Air Force stockage information is contained in Initial Supply Support Lists issued separately from this publication by Sacramento Air Logistics Center in accordance with AFM 67-1, part 1, chapter 12.
- (2) Army stockage is demand based in accordance with AR 710-2. Repair parts listed in this publication represent those authorized for use at indicated maintenance levels and will be requisitioned on an as-required basis until stockage is justified in accordance with AR 710-2.
- d. In the parts list, some items are indented to show that they area component of the item under which they are indented.

#### D-5. How to Locate Repair Parts.

- a. (ALL When National Stock Number or reference number is unknown:
  - (1) Using the table of contents, determine the functional group; i.e., batteries and related parts, exhaust and breather pipes, within which the repair part belongs. This is necessary since illustrations are prepared for functional groups.
  - (2) Find the illustration covering the functional group to which the repair part belongs.
  - (3) Identify the repair part on the illustration and note the illustration figure and item number of the repair part.
  - (4) Using the Repair Parts Listing, find the figure and item number noted on the illustration.
- b. (ALL) When national stock number or reference number is known:
  - (1) Using the Index of National Stock Numbers and Reference Numbers, find the pertinent national stock number or reference number. This index is in ascending NSN sequence followed by a list of reference numbers in alphanumeric sequence, cross-referenced to the illustration figure number and item number.
  - (2) After finding the figure and item number, locate the figure and item number in the repair parts list.
- **D-6. (F) Use of the Reference Designator Index Section.** This Section (Section V) is used when the reference designator is known or identified by other technical manuals supporting this equipment. The reference number is given in this section. If description or location is desired, note the figure and item number. Turn to Section II to the noted figure and item number. The location of the part and description is given in this listing.

D	-7	•	Δ	h	h	re	vi	a	ti	٥r	าร
$\boldsymbol{-}$			$\boldsymbol{r}$	v	v		v i	ч	u	vı	13.

Abbreviations

Explanation

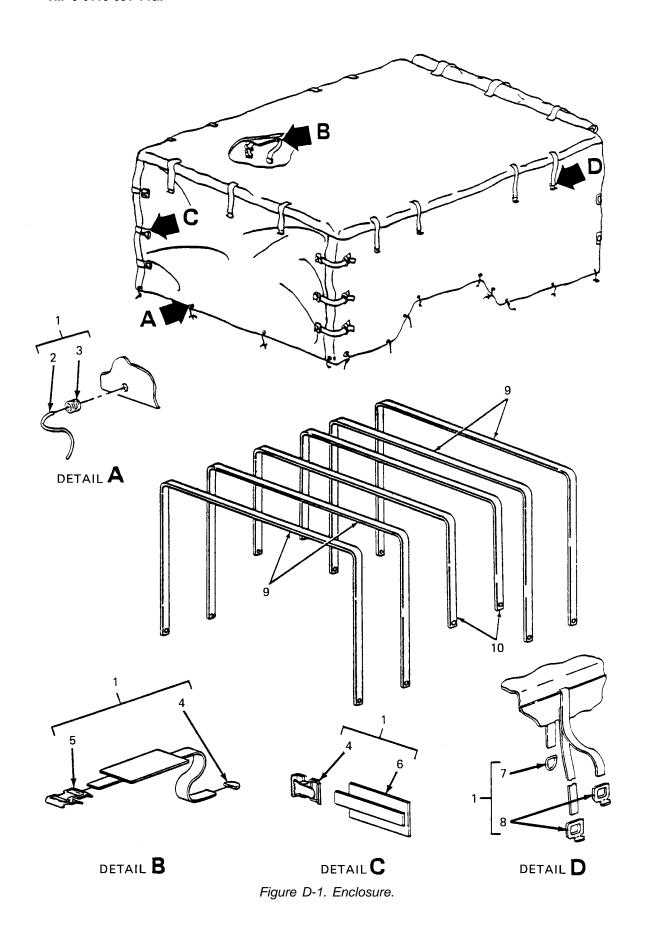
Not Applicable

## D-8. Federal Supply Codes for Manufacturers.

Code Manufacturer

## Not Applicable

- **D-9. Recommendation for Maintenance Publication Improvements.** Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted as follows:
- a. Air Force AFTO Form 22 in accordance with T.O. 00-5-1, directly to: Commander, Sacramento Air Logistics Center, ATTN: SM-ALC-MMEDTA, McClellan AFB, CA 95652-5609.
- b. Army DA Form 2028, directly to: Commander, US Army Troop Support Command, ATTN: AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798.



ILL	1) US- TION		(2) SMR CO	DDE			(3) USMC	(4)	(5) DESCRIPTION		(6)	(7)	(8) USMC
a	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	INC IN	QTY PER EQUIP
									Group 01 - ENCLOSUR-				
D-1	1	PAOFZ						6115-01-206-1271	FITTED COVER 13226E7740	97403	EA	1	
D-1	2	PAOZZ							ROPE, SISAL     MIL-R-24049	81349	EA	25	
D-1	3	PAFZZ						5325-01-B75-3182	GROMMET, METALLIC     MIL-G-16491		EA	25	
D-1	4	PAFZZ						5340-00-078-7029	CLIP, END STRAP     MS51926-3		EA	24	
D-1	5	PAFZZ						5340-00-057-6956	BUCKLE, SPRING ACTION     MS51929-2		EA	12	
D-1	6	AFFFF							CHAPE ASSEMBLY     13214E1392	97403	EA	12	
D-1	7	PAFZZ						5365-01-031-9674	• RING, DEE MS51925-1	96906	EA	16	
D-1	8								• HOOK, SNAP M43770/1-SWZE3	81349	EA	26	
D-1	9	PAOZO						2540-00-924-8478	BOW, VEHICULAR, TOP 13212E3597-1	97403	EA	4	
D-1	10	PAOZZ						2540-00-926-1003	BOW, VEHICLULAR, TOP 13212E3597-2	97403	EA	2	
											han	ge 4	D-11

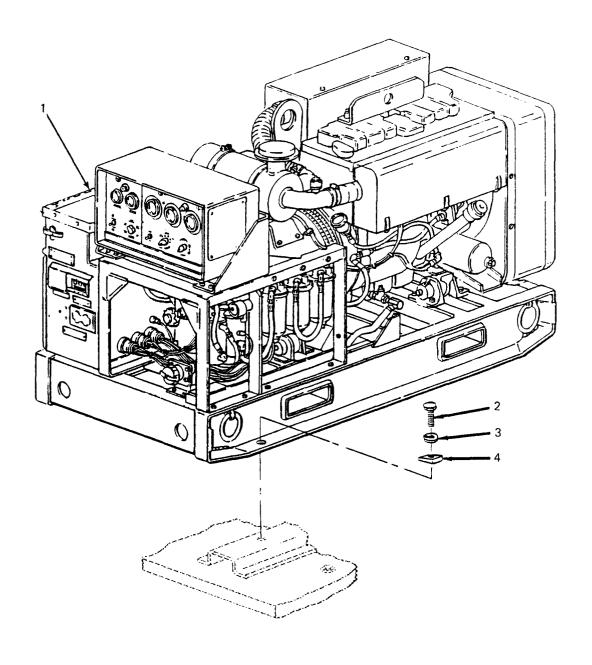


Figure D-2. Generator Set.

(1) ILLUS	-	(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION		(6)	(7)	(8)
TRATI	ON											QTY	USMC
A	В	A	В	C	D	A	В	NATIONAL		USABLE		INC	QTY
FIG	ITEM		AIR				REPL	STOCK	REF NUMBER	ON		IN	PER
NO.	NO.	ARMY	FORCE	NAVY	USMC	SSI	FACTOR	NUMBER	& MFR CODE	CODE	U/M	UNIT	EQUIP
									GROUP 02 - GE	NERATOR SET			
D-2	1	PDOFD						6115-00-465-1044	GENERATOR SET MEP-002A 305		EA	2	
D-2	2	PAOZZ						5305-00-719-5235	SCREW, CAP, H		EA	8	
D-2	3	PAOZZ						5310-00-584-5272	LOCKWASHER MS35338-48 9	6906	EA	8	
D-2	4	PAOZZ						5310-01-150-5922	WASHER, BEVEL		EA	8	

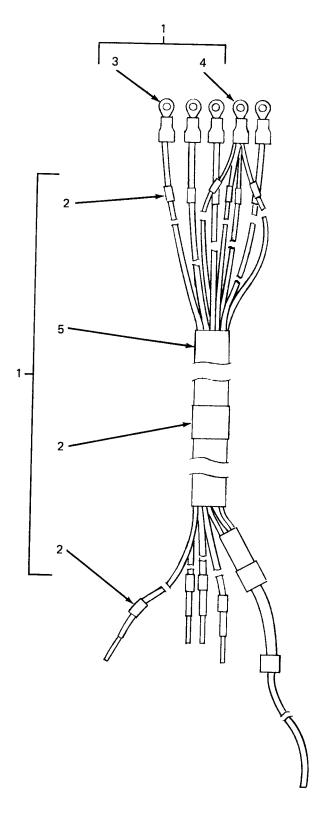


Figure D-3. Five- Wire Power Cable.

SECII	LOIN II								IM3-0113-031-14	· & P			
(1)	3-	(2) SMR COD	E			(3) USMC		(4)	(5) DESCRIPTION		(6)	(7)	(8)
TRATI A FIG		A	B AIR	С	D	A	B REPL	NATIONAL STOCK	U REF NUMBER	SABLE ON		QTY INC IN	USMC QTY PER
NO.		ARMY	FORCE	NAVY	USMC	SSI	FACTOR	NUMBER			U/M		EQUIP
									GROUP 03 - ELEC 0301 - POWER CA				
D-3	1	PBOFF							CABLE ASSY, POW 13227E0121 974	VER (FIVE-WIRE)	EA	2	
D-3	2	PAOZZ						9905-01-875-318	.BAND, IDENTIFI MIL-P-15024/8 TYPE K2		EA	17	
D-3	3								.TERMINAL, LUG MS25036-122 96		EA	4	
D-3	4	PAOZZ						5940-00-113-819	.TERMINAL, LUG MS25036-122 96		EA	1	
D-3	5	PBOGF							.CABLE, POWER CO-04HDE 81349 (4/4-4/12R)		EA	1	

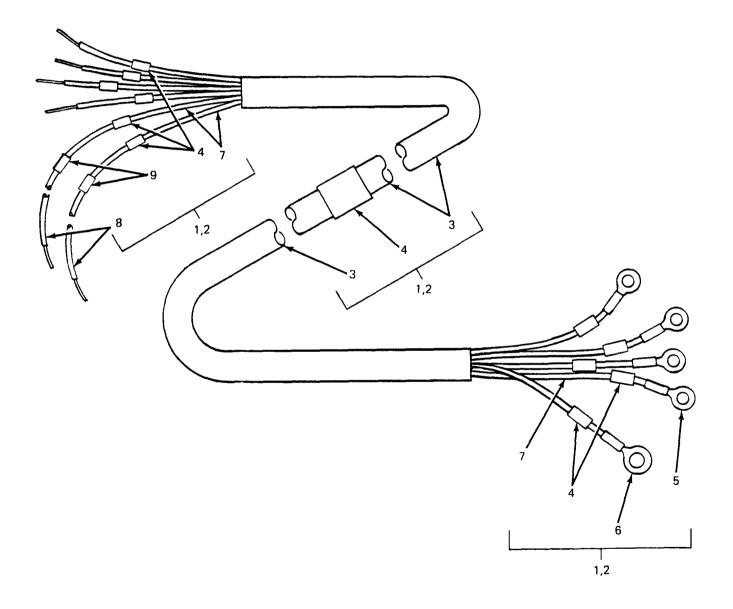


Figure D-4. Five- Wire Power Cable.

(1) ILLU TRAT		(2) SMR COD	E			(3) USMC		(4)	(5) DESCRIPTION		(6)	(7) OTY	
A		A	В	C	D	A	В	NATIONAL		USABLE		~	
FIG	ITEM		AIR				REPL	STOCK	REF NUMBER	ON		IN	PER
NO.	NO.	ARMY	FORCE	NAVY	USMC	SSI	FACTOR	NUMBER	& MFR CODE	CODE	U/M	UNIT	EQUIP
									0301 - POWER C				
D-4	1	PAOFH							CABLE ASSY, PC (GEN 1) 13226E5888-1	WER (FIVE-WIRE)	EA	1	
D-4	2	PAOFH						6150-01-B76-1223	CABLE ASSY, PC (GEN 2) 13226E5888-2	WER (FIVE-WIRE)	EA	1	
D-4	3	PAFZZ							.CABLE CO-04-HDF- 81 (4/1-4/8R) 162		FT	AR	
D-4	4	PAOZZ							.BAND, IDENTIF MIL-P-15024/8 TYPE K2		EA	26	
D-4	5	PAOZZ						5940-00-115-500	7.TERMINAL, LUG MS25036-130 9		EA	2	
D-4	6	PAOZZ						5940-00-113-9833	E.TERMINAL, LUG MS25036-131 9		EA	2	
D-4	7	PAOZZ							.SLEEVING, INS M23053/5-107-5		EA	AR	
D-4	8	PAOZZ							.WIRE, SIZE 6 QQW343CO6 813		EA	4	
D-4	9	PAOZZ							.SLEEVING, INS M23053/5-109-5		EA	AR	

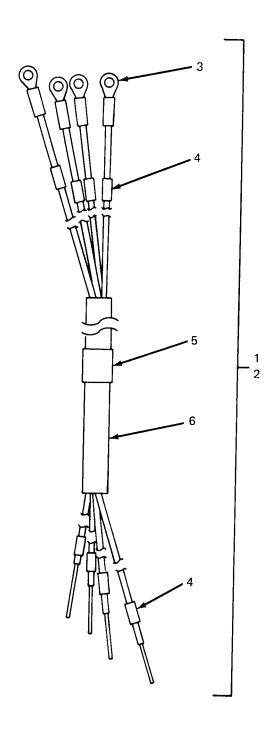


Figure D-5. Four-Wire Power Cable

(1) ILLUS	S-	(2) SMR COD	E			(3) USMC		(4)	(5) DESCRIPTION		(6)	(7)	(8)
TRATI A FIG NO.	B ITEM	A ARMY	B AIR FORCE	C NAVY	D USMC	A SSI	B REPL FACTOR	NATIONAL STOCK NUMBER	USAB REF NUMBER ON & MFR CODE COD	r	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
									0301 - POWER CABLE	S			
D-5	1								CABLE ASSY, POWER (GEN 1) 13220E4460-1 9740		EA	1	
D-5	2								CABLE ASSY, POWER (GEN 2) 13220E4461-1 9740		EA	1	
D-5	3							5940-00-557-434	.TERMINAL, LUG MS25036-120 96906		EA	8	
D-5	4								.INSULATION, TUBIN M23053/5 81349	G (0.375 ID)	EA	16	
D-5	5								.INSULATION, TUBIN M23053/5 81349	G (1.500 ID)	EA	2	
D-5	6								.CABLE CO-04HDE (4/6)				

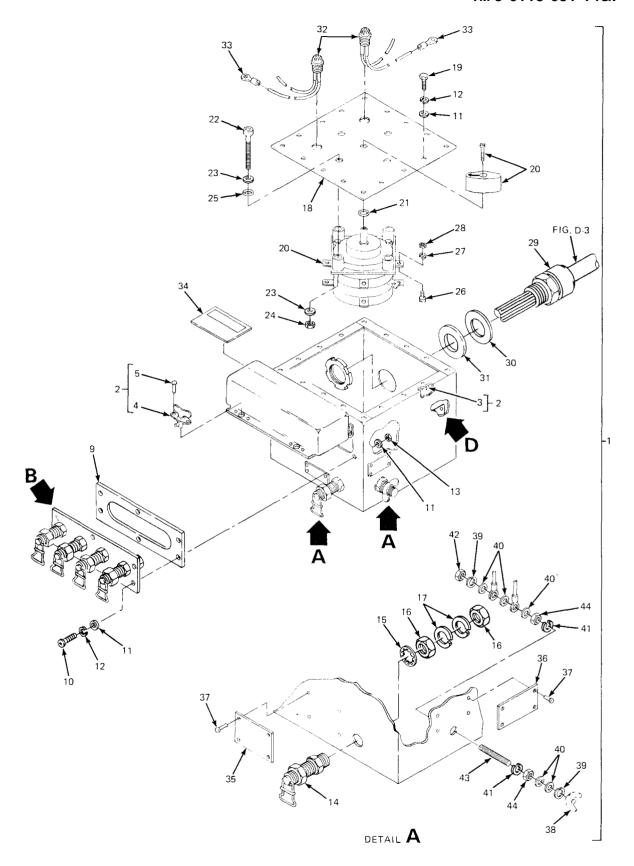


Figure D-6. Five- Wire Switch Box (Sheet 1 of 2).

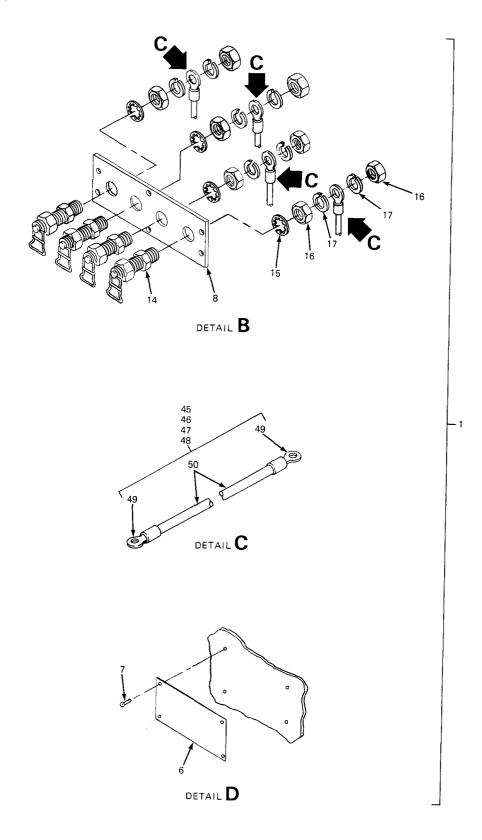


Figure D-6. Five- Wire Switch Box (Sheet 2 of 2).

(1) ILLUS- TRATION	(2) SMR CODE		(3) USMC	(4)	(5) DESCRIPTION	(6)	(7) (8) QTY USMC	
A B FIG ITEM NO. NO.	A B AIR ARMY FORCE	C D	A B REPL SSI FACTOR	NATIONAL STOCK NUMBER	USABLE REF NUMBER ON & MFR CODE CODE	U/M	INC QTY IN PER UNIT EQUI	
					0301 - SWITCH BOX			
D-6 1	PBOFH				BOX,SWITCH (FIVE-WIRE) 13212E3601-2 97403	EA	1	
D-6 2					.BOX 13212E3602 97403	EA	1	
D-6 3	PAOZZ				NUT,BLIND RIVET MS27130-S99 96906	EA	16	
D-6 4	PAFZZ				FASTENER,PANEL MIL-F-5591 81349	EA	2	
D-6 5	PAFZZ			5320-00-117-6963	RIVET,SOLID MS20426A4-6 96906	EA	4	
D-6 6	PAOZZ				.PLATE, INFORMATION 13212E3587 97403	EA	1	
D-6 7	PAFZZ			5320-00-721-5244	.RIVET,TUBULAR MS16535-77 96906	EA	4	
D-6 8	PAFZZ			5940-00-105-6331	.BOARD,TERMINAL 13212E3606 97403	EA	1	
D-6 9	PAOZZ			5330-01-162-8585	.GASKET 1321E3610 97403	EA	1	
D-6 10	PAOZZ			5305-00-984-6214	.SCREW,MACHINE MS35206-267 96906	EA	6	
D-6 11	PAOZZ			5310-00-809-8546	.WASHER,FLAT MS27183-8 96906	EA	28	
D-6 12	PAOZZ			5310-00-045-3296	.LOCKWASHER MS35338-43 96906	EA	22	
D-6 13	PAOZZ			5310-00-934-9758	.NUT,PLAIN,HEX MS35649-202 96906	EA	6	
D-6 14	PAOZZ			5940-00-021-3321	.POST,TERMINAL MS39347-2 96906	EA	5	
D-6 15	PAOZZ			5310-00-022-8834	.LOCKWASHER,INTERNAL TOOTH MS35333-108 96906	EA	5	
D-6 16	PAFZZ			5310-00-247-7186	.NUT,PLAIN,HEX MS16203-37 96906	EA	10	
	PAOZZ			5310-00-184-8971	.LOCKWASHER MS35338-101 96906	EA		
D-7 18	PAFZZ			6110-00-133-9160	.COVER 13212E3603 97403	EA		
D-7 19	PAOZZ			5305-00-989-7434	.SCREW,MACHINE MS35207-263 96906	EA		
D-6 20				5930-00-829-3243	.SWITCH,ROTARY 13205E5023 97403	EA		
D-6 21	PAFZZ			5330-00-579-8108	.PACKING,PREFORMED MS28775-111 96906	EA	1	

(1) ILLUS- TRATIO	-	(2) SMR CODI	E		(3) USMC		(4)	(5) DESCRIPTION	(6)	(7) QTY	
A B FIG I	3 ITEM	A ARMY	B AIR FORCE			B REPL FACTOR		USABLE REF NUMBER ON & MFR CODE CODE	U/M	INC IN	
								0301 - SWITCH BOX - CONT			
D-6 2	22	PAFZZ					5305-00-984-569	.SCREW, MACHINE MS35206-315 96906	EA	4	
D-6 2	23	PAOZZ					5310-00-080-600	.WASHER,FLAT MS27183-14 96906	EA	8	
D-6 2	24	PAOZZ						.NUT, SELF-LOCKING MS51922-17 96906	EA	4	
D-6 2	25	PAFZZ					5330-00-684-342	.PACKING, PREFORMED MS28775-013 96906	EA	4	
D-6 2	26	PAOZZ					5305-00-954-900	.SCREW, MAHCINE MS35215-68 96906	EA	9	
D-6 2	27	PAOZZ					5310-00-942-510	.LOCKWASHER MS35335-89 96906	EA	9	
D-6 2	28	PAOZZ						.NUT, PLAIN, HEX MS51970-1 96906	EA	9	
D-6 2	29							.TUBE, STUFFING 13218E5149-8 97403	EA	2	
D-6 3	30	PAOZZ					5310-01-190-221	.WASHER 13218E5139-4 97403	EA	2	
D-6 3	31	PAFZZ					5330-01-187-349	.GASKET 13218E5140-4 97403	EA	2	
D-6 3	32	PAOOZ					6210-00-253-068	.LIGHT AND WIRE ASSY 13212E3581-2 97403	EA	2	
D-6 3	33	PAOZZ					5940-00-113-818	.TERMINAL, LUG MS25036-150 96906	EA	4	
D-6 3	34	XBOZZ						.PLATE, WARNING 13216E7603 97403	EA	1	
D-6 3	35	PAOZZ						.PLATE, INFORMATION 13226E5889-1 97403	EA	1	
D-6 3	36	PAOZZ						.PLATE, INFORMATION 13226E5889-2 97403	EA	1	
D-6 3	37	PAFZZ						.RIVET, TUBULAR MS16535-155 96906	EA	8	
D-6 3	38	PAOZZ					5310-00-543-471	.NUT, PLAIN, WING MS35425-28 96906	EA	1	
D-6 3	39	PAOZZ					5310-00-184-897	.LOCKWASHER MS35338-103 96906	EA	2	
D-6 4	40	PAOZZ						.WASHER, FLAT AN961-616T 81352	EA	5	
D-6 4	41	PAFZZ					5310-00-022-884	.LOCKWASHER MS35333-110 96906	EA	2	
D-6 4	42	PAFZZ					5310-00-584-799	.NUT, PLAIN, HEX MS16203-27 96906	EA	1	

D-24 PIN:064542-002

(1) ILLUS- TRATION	(2) SMR CODE		(3) USMC	(4)	(5) DESCRIPTION	(6)	(7) (8) QTY USMC	
A B FIG ITEM NO. NO.	A B AIR ARMY FORCE	C D	A B REPL SSI FACTOR	NATIONAL STOCK NUMBER	USABLE REF NUMBER ON & MFR CODE CODE	U/M	INC QTY IN PER UNIT EQUI	
					0301 - SWITCH BOX			
D-6 1	PBOFH				BOX,SWITCH (FIVE-WIRE) 13212E3601-2 97403	EA	1	
D-6 2					.BOX 13212E3602 97403	EA	1	
D-6 3	PAOZZ				NUT,BLIND RIVET MS27130-S99 96906	EA	16	
D-6 4	PAFZZ				FASTENER,PANEL MIL-F-5591 81349	EA	2	
D-6 5	PAFZZ			5320-00-117-6963	RIVET,SOLID MS20426A4-6 96906	EA	4	
D-6 6	PAOZZ				.PLATE, INFORMATION 13212E3587 97403	EA	1	
D-6 7	PAFZZ			5320-00-721-5244	.RIVET,TUBULAR MS16535-77 96906	EA	4	
D-6 8	PAFZZ			5940-00-105-6331	.BOARD,TERMINAL 13212E3606 97403	EA	1	
D-6 9	PAOZZ			5330-01-162-8585	.GASKET 1321E3610 97403	EA	1	
D-6 10	PAOZZ			5305-00-984-6214	.SCREW,MACHINE MS35206-267 96906	EA	6	
D-6 11	PAOZZ			5310-00-809-8546	.WASHER,FLAT MS27183-8 96906	EA	28	
D-6 12	PAOZZ			5310-00-045-3296	.LOCKWASHER MS35338-43 96906	EA	22	
D-6 13	PAOZZ			5310-00-934-9758	.NUT,PLAIN,HEX MS35649-202 96906	EA	6	
D-6 14	PAOZZ			5940-00-021-3321	.POST,TERMINAL MS39347-2 96906	EA	5	
D-6 15	PAOZZ			5310-00-022-8834	.LOCKWASHER,INTERNAL TOOTH MS35333-108 96906	EA	5	
D-6 16	PAFZZ			5310-00-247-7186	.NUT,PLAIN,HEX MS16203-37 96906	EA	10	
	PAOZZ			5310-00-184-8971	.LOCKWASHER MS35338-101 96906	EA		
D-7 18	PAFZZ			6110-00-133-9160	.COVER 13212E3603 97403	EA		
D-7 19	PAOZZ			5305-00-989-7434	.SCREW,MACHINE MS35207-263 96906	EA		
D-6 20				5930-00-829-3243	.SWITCH,ROTARY 13205E5023 97403	EA		
D-6 21	PAFZZ			5330-00-579-8108	.PACKING,PREFORMED MS28775-111 96906	EA	1	

(1) ILLUS- TRATIO	-	(2) SMR CODI	E		(3) USMC		(4)	(5) DESCRIPTION	(6)	(7) QTY	
A B FIG I	3 ITEM	A ARMY	B AIR FORCE			B REPL FACTOR		USABLE REF NUMBER ON & MFR CODE CODE	U/M	INC IN	
								0301 - SWITCH BOX - CONT			
D-6 2	22	PAFZZ					5305-00-984-569	.SCREW, MACHINE MS35206-315 96906	EA	4	
D-6 2	23	PAOZZ					5310-00-080-600	.WASHER,FLAT MS27183-14 96906	EA	8	
D-6 2	24	PAOZZ						.NUT, SELF-LOCKING MS51922-17 96906	EA	4	
D-6 2	25	PAFZZ					5330-00-684-342	.PACKING, PREFORMED MS28775-013 96906	EA	4	
D-6 2	26	PAOZZ					5305-00-954-900	.SCREW, MAHCINE MS35215-68 96906	EA	9	
D-6 2	27	PAOZZ					5310-00-942-510	.LOCKWASHER MS35335-89 96906	EA	9	
D-6 2	28	PAOZZ						.NUT, PLAIN, HEX MS51970-1 96906	EA	9	
D-6 2	29							.TUBE, STUFFING 13218E5149-8 97403	EA	2	
D-6 3	30	PAOZZ					5310-01-190-221	.WASHER 13218E5139-4 97403	EA	2	
D-6 3	31	PAFZZ					5330-01-187-349	.GASKET 13218E5140-4 97403	EA	2	
D-6 3	32	PAOOZ					6210-00-253-068	.LIGHT AND WIRE ASSY 13212E3581-2 97403	EA	2	
D-6 3	33	PAOZZ					5940-00-113-818	.TERMINAL, LUG MS25036-150 96906	EA	4	
D-6 3	34	XBOZZ						.PLATE, WARNING 13216E7603 97403	EA	1	
D-6 3	35	PAOZZ						.PLATE, INFORMATION 13226E5889-1 97403	EA	1	
D-6 3	36	PAOZZ						.PLATE, INFORMATION 13226E5889-2 97403	EA	1	
D-6 3	37	PAFZZ						.RIVET, TUBULAR MS16535-155 96906	EA	8	
D-6 3	38	PAOZZ					5310-00-543-471	.NUT, PLAIN, WING MS35425-28 96906	EA	1	
D-6 3	39	PAOZZ					5310-00-184-897	.LOCKWASHER MS35338-103 96906	EA	2	
D-6 4	40	PAOZZ						.WASHER, FLAT AN961-616T 81352	EA	5	
D-6 4	41	PAFZZ					5310-00-022-884	.LOCKWASHER MS35333-110 96906	EA	2	
D-6 4	42	PAFZZ					5310-00-584-799	.NUT, PLAIN, HEX MS16203-27 96906	EA	1	

D-24 PIN:064542-002

(1) ILLUS- TRATION	(2) SMR COD	E			(3) USMC		(4)	(5) DESCRIPTION	(6)	(7) OTY	
A B FIG ITEM NO. NO.	A ARMY	B AIR FORCE	C NAVY	D USMC	A SSI	B REPL FACTOR	NATIONAL STOCK NUMBER	USABL REF NUMBER ON & MFR CODE CODE		INC IN	QTY PER EQUIP
								0301 - SWITCH BOX -	CONT		
D-6 43	PAOZZ						5307-00-227-174	.STUD 13214E1223 97403	EA	1	
D-6 44	PAOZZ						5310-01-026-582	.NUT, PLAIN, HEX MS16203-39 96906	EA	2	
D-6 45	MFFZZ							.LEAD, ELECTRICAL (13212E3609-1 97403	W3) EA	1	
D-6 46	MFFZZ							.LEAD, ELECTRICAL (13212E3609-2 97403		1	
D-6 47	MFFZZ							.LEAD, ELECTRICAL (13212E3609-3 97403		1	
D-6 48	MFFZZ							.LEAD, ELECTRICAL (13212E3609-4 97403		1	
D-6 49	PAOZZ						5940-00-557-434	TERMINAL, LUG MS25036-120 96906	EA	8	
D-6 50	PAOZZ						6145-00-578-659	WIRE, ELECTRICAL M5086/2-6 81349	FT	AR	

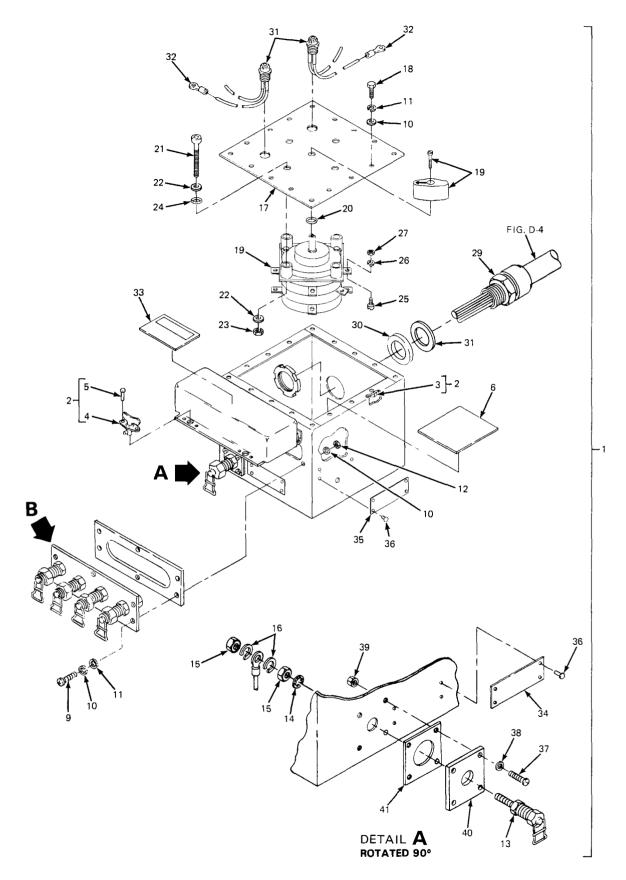


Figure D-7. Five- Wire Switch Box (Sheet 1 of 2).

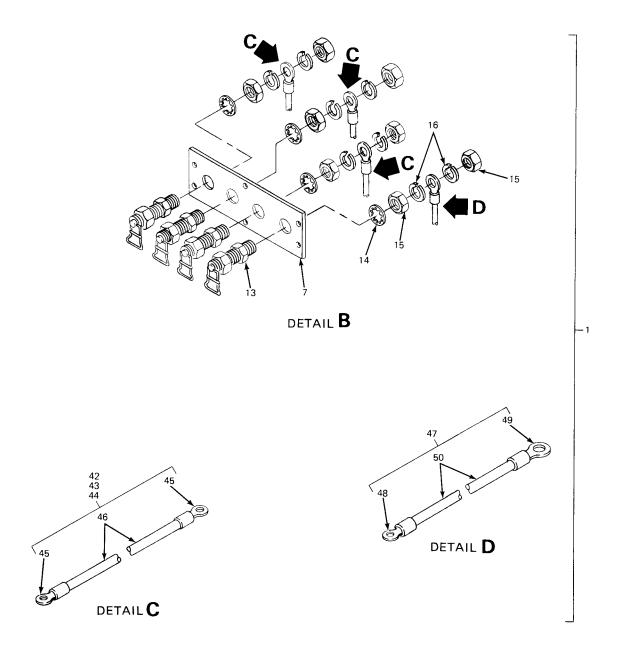


Figure D-7. Five- Wire Switch Box (Sheet 2 of 2).-

(1) ILLU TRAT		(2) SMR COL	Œ		(3) USMC		(4)	(5) DESCRIPTION		(6)	(7) QTY	
A FIG	B ITEM NO.		B AIR FORCE	D USMC	A SSI	B REPL FACTOR		REF NUMBER & MFR CODE	USABLE ON CODE	U/M	INC IN	
								0301 - SWITC	СН ВОХ			
D-7	1	PBOFH						BOX, SWITCH 13220E4459		EA	1	
D-7	2							.BOX 13220E4464	97403	EA	1	
D-7	3	PAFZZ					5310-01-B75-103	4NUT, CLINC 13211E3895-5		EA	16	
D-7	4	PAFZZ						FASTENER, MIL-F-5591		EA	2	
D-7	5	PAFZZ					5320-00-117-696	3RIVET, SOI MS20426A4-6		EA	4	
D-7	6	PAOZZ						.PLATE, INFO		EA	1	
D-7	7	PAFZZ					5940-00-105-633	1.BOARD, TERM 13212E3606		EA	1	
D-7	8	PAOZZ					5330-01-162-858	E.GASKET 13212E3610	97403	EA	1	
D-7	9	PAOZZ					5305-00-984-621	4.SCREW, MACE MS35206-267		EA	6	
D-7	10	PAOZZ						.WASHER, FLA		EA	28	
D-7	11	PAOZZ					5310-00-045-329	.LOCKWASHER MS35338-43	96906	EA	2	
D-7	12	PAOZZ					5310-00-934-975	E.NUT, PLAIN, MS35649-202		EA	6	
D-7	13	PAOZZ					5940-00-021-332	1.POST, TERMI MS39347-2 9		EA	5	
D-7	14	PAOZZ					5310-00-022-883	4.LOCKWASHER, MS35333-108	INTERNAL TOOTH	EA	5	
D-7	15	PAFZZ					5310-00-247-7186	6.NUT, PLAIN, MS16203-37		EA	10	
D-7	16	PAOZZ					5310-01-004-9129	.LOCKWASHER AN961-416S		EA	10	
		PAOZZ					5310-00-187-2413	:.LOCKWASHER AN961-416T		EA	10	
D-7	17	PAFZZ					6110-00-133-916	C.COVER 13212E3603	97403	EA	1	
D-7	18	PAOZZ						.SCREW, MACH		EA	16	
D-7	19						5930-00-829-324	3.SWITCH, ROT 13205E5023		EA	1	
D-7	20	PAFZZ					5330-00-579-8108	E.PACKING, PR MS28775-111		EA	1	

(1) ILLUS- TRATION		DDE		(3) USMC		(4)	(5) DESCRIPTION	(6)	(7) OTY	(8) USMC
A B FIG IT	A TEM	B AIR FORCE		A SSI	B REPL FACTOR	NATIONAL STOCK NUMBER	USABLE REF NUMBER ON & MFR CODE CODE	U/M	INC IN	
							0301 - SWITCH BOX - CON	IT		
D-7 21	PAFZZ					5305-00-984-569	E.SCREW, MACHINE MS35206-315 96906	EA	4	
D-7 22	2 PAOZZ					5310-00-080-600	4.WASHER, FLAT MS27183-14 96906	EA	8	
D-7 23	B PAOZZ					5310-00-087-465	2.NUT, SELF-LOCKING MS51922-17 96906	EA	4	
D-7 24	PAFZZ					5330-00-684-342	C.PACKING, PREFORMED MS28775-013 96906	EA	4	
D-7 25	5 PAOZZ					5305-00-954-900	3.SCREW, MACHINE MS35215-68 96906	EA	9	
D-7 26	5 PAOZZ					5310-00-942-510	9.LOCKWASHER MS35335-89 96906	EA	9	
D-7 27	7 PAOZZ					5310-00-924-421	E.NUT, PLAIN, HEX MS51970-1 96906	EA	9	
D-7 28	B PAFZZ					5975-01-211-334	£.TUBE, STUFFING 13218E5149-10 97403	EA	2	
D-7 29	PAOZZ					5310-01-164-234	2.WASHER 13218E5139-3 97403	EA	2	
D-7 30	) PAOZZ					5330-01-150-979	2.GASKET 13218E5140-3 97403	EA	2	
D-7 31	PAOZZ					6120-00-406-139	E.LIGHT AND WIRE ASSY 13212E3581-1 97403	EA	2	
D-7 32	2 PAOZZ					5940-00-113-818	4.TERMINAL, LUG MS25036-150 96906	EA	4	
D-7 33	3 XBOZZ						.PLATE, WARNING 13216E7603 97403	EA	1	
D-7 34	1 PAOZZ						.PLATE, INFORMATION 13226E5889-1 97403	EA	1	
D-7 35	5 PAOZZ						.PLATE, INFORMATION 13226E5889-2 97403	EA	1	
D-7 36	5 PAFZZ					5320-00-954-011	3.RIVET, TUBULAR MS16535-155 96906	EA	8	
D-7 37	7 PAOZZ					5305-00-988-172	7.SCREW, MACHINE MS35206-283 96906	EA	4	
D-7 38	B PAOZZ					5310-00-809-405	E.WASHER, FLAT MS27183-10 96906	EA	4	
D-7 39	PAOZZ					5310-00-088-125	1.NUT, SELF-LOCKING MS51922-1 96906	EA	4	
D-7 40	) PAOZZ					5940-01-B75-104	C.BOARD, TERMINAL 13226E6011-1 97403	EA	1	
D-7 41	XDOZZ						.GASKET 13226E6012 97403	EA	1	

(1) ILLU		(2) SMR COD	Œ			(3) USMC		(4)	(5) DESCRIPTION		(6)	(7)	(8)
TRAT			_	~	_		_					~	
A ETG	B ITEM	A	B AIR	C	D	A	B REPL	NATIONAL STOCK	REF NUMBER	USABLE ON		INC IN	QTY PER
	NO.	ARMY	FORCE	NAVY	USMC	SST	FACTOR	NUMBER	& MFR CODE		U/M		EQUIP
					-						-,		-2
									0301 - SWITCH	BOX - CONT			
D-7	42	MFFZZ							.LEAD, ELECTRI	CAL (W3)	EA	1	
									13212E3609-1	97403			
D-7	43	MFFZZ							.LEAD, ELECTRI	CAL (W4)	EA	1	
									13212E3609-2	97403			
D-7	44	MFFZZ							.LEAD, ELECTRI	CAL (W5)	EA	1	
									13212E3609-3	97403			
D-7	45	PAOZZ						5940-00-557-434	TERMINAL, LU	rG	EA	6	
									MS25036-120 9	6906			
D-7	46	PAOZZ						6145-00-578-659	WIRE, ELECTR	ICAL	FT	AR	
									M5086/2-6 813	49			
D-7	47	MFFFF							.LEAD, ELECTRI	CAL (W6)	EA	1	
									13212E3586-4	97403			
D-7	48	PAFZZ						5940-00-113-819	TERMINAL, LU	rG	EA	1	
									MS25036-127 9	6906			
D-7	49	PAFZZ						5940-00-113-983	TERMINAL, LU	IG.	EA	1	
									MS25036-128 9	6906			
D-7	50								WIRE, ELECTR	ICAL	FT	AR	
									M5086/2-2 813	49			

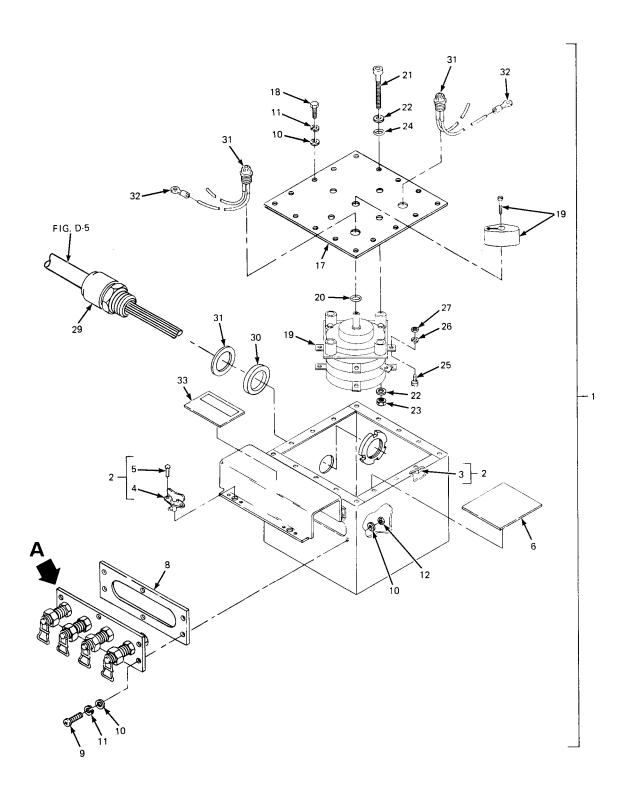


Figure D-8. Four- Wire Switch Box (Sheet 1 of 2).

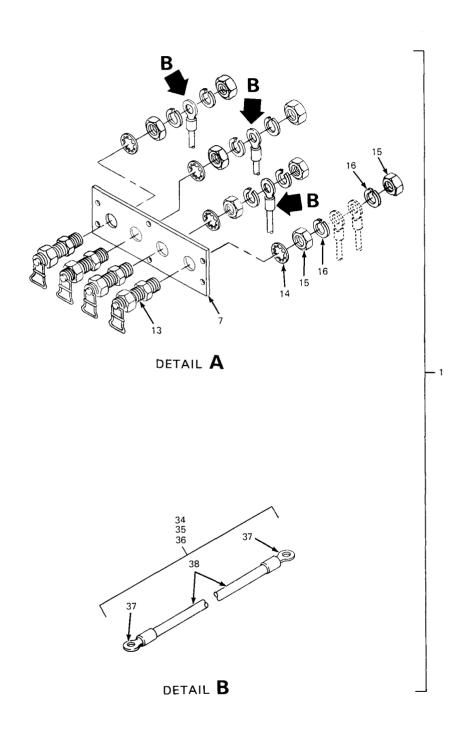


Figure D-8. Four- Wire Switch Box (Sheet 2 of 2).

(1) ILLUS TRATI		(2) SMR COD	E		(3) USMC		(4)	(5) DESCRIPTION		(6)	(7) QTY	
A FIG	В		B AIR FORCE	D USMC	A SSI	B REPL FACTOR		REF NUMBER & MFR CODE	USABLE ON CODE	U/M	INC IN	
								0301 - SWITC	СН ВОХ			
D-8	1	PBOFH						BOX, SWITCH 13220E4459	(FOUR-WIRE) 97403	EA	1	
D-8	2							.BOX 13220E4464	97403	EA	1	
D-8	3	PAFZZ					5310-01-B75-1034	NUT, CLING 13211E3895-		EA	16	
D-8	4	PAFZZ						FASTENER, MIL-F-5591		EA	2	
D-8	5	PAFZZ					5320-00-117-6963	MS20426A4-6		EA	4	
D-8	6	PAOZZ						.PLATE, INFO		EA	1	
D-8	7	PAFZZ					5940-00-105-6331	.BOARD, TERM 13212E3606		EA	1	
D-8	8	PAOZZ					5330-01-162-8585	.GASKET 13212E3610	97403	EA	1	
D-8	9	PAOZZ					5305-00-984-6214	.SCREW, MACI		EA	6	
D-8	10	PAOZZ						.WASHER, FLA		EA	28	
D-8	11	PAOZZ					5310-00-045-3296	.LOCKWASHER MS35338-43	96906	EA	22	
D-8	12	PAOZZ					5310-00-934-9758	.NUT, PLAIN MS35649-202		EA	6	
D-8	13	PAOZZ					5940-00-021-3321	.POST, TERM: MS39347-2		EA	4	
D-8	14	PAOZZ					5310-00-022-8834	.LOCKWASHER MS35333-108	, INTERNAL TOOTH 96906	EA	4	
D-8	15	PAFZZ					5310-00-247-7186	.NUT, PLAIN MS16203-37		EA	8	
D-8	16	PAOZZ					5310-01-004-9129	.LOCKWASHER AN961-416S		EA	8	
		PAOZZ					5310-00-187-2413	.LOCKWASHER AN961-416T		EA	10	
D-8	17	PAFZZ					6110-00-133-9160	.COVER 13212E3603	97403	EA	1	
D-8	18	PAOZZ						.SCREW, MAC		EA	16	
D-8	19						5930-00-829-3243	.SWITCH, ROT		EA	1	
D-8	20	PAFZZ					5330-00-579-8108	.PACKING, PI MS287745-11		EA	1	

	IS-	(2) SMR CODE	E		(3) USMC		(4)	(5) DESCRIPTION		(6)	(7)	
	B ITEM		B AIR FORCE			B REPL FACTOR		REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	
								0301 - SWITCH	BOX - CONT	7		
D-8	21	PAFZZ					5305-00-984-569	.SCREW, MACHIN		EA	4	
D-8	22	PAOZZ					5310-00-080-600	.WASHER, FLAT MS27183-14 96		EA	8	
D-8	23	PAOZZ					5310-00-087-465	.NUT, SELF-LOG MS51922-17 96		EA	4	
D-8	24	PAFZZ					5330-00-684-342	.PACKING, PREE MS28775-013		EA	4	
D-8	25	PAOZZ					5305-00-954-900	.SCREW, MACHIN		EA	9	
D-8	26	PAOZZ					5310-00-942-510	.LOCKWASHER MS35335-89 96	5906	EA	9	
D-8	27	PAOZZ					5310-00-924-421	.NUT, PLAIN, H MS51970-1 969		EA	9	
D-8	28	PAFZZ						.TUBE, STUFFIN		EA	2	
D-8	29	PAOZZ					5310-01-164-234	.WASHER 13218E5139-3	97403	EA	2	
D-8	30	PAOZZ					5330-01-150-979	.GASKET 13218E5140-3	97403	EA	2	
D-8	31	PAOOZ					6210-00-406-139	.LIGHT AND WIF 13212E3581-1		EA	2	
D-8	32	PAOZZ					5940-00-113-818	.TERMINAL, LUC MS25036-150		EA	4	
D-8	33	XBOZZ						.PLATE, WARINI 13216E7603 97		EA	1	
D-8	34	MFFZZ						.LEAD, ELECTRI 13212E3609-1		EA	1	
D-8	35	MFFZZ						.LEAD, ELECTRI 13212E3609-2		EA	1	
D-8	36	MFFZZ						.LEAD, ELECTRI 13212E3609-3		EA	1	
D-8	37	PAOZZ					5940-00-557-434	TERMINAL, LU MS25036-120	JG	EA	6	
D-8	38	PAOZZ					6145-00-578-659	WIRE, ELECTE M5086/2-6	RICAL	FT	AR	

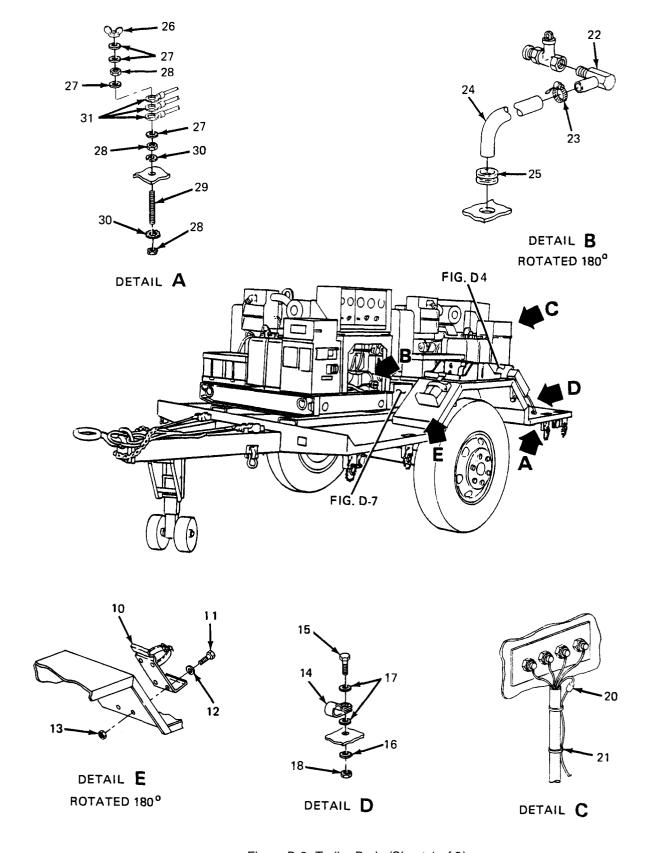


Figure D-9. Trailer Body (Sheet 1 of 2).

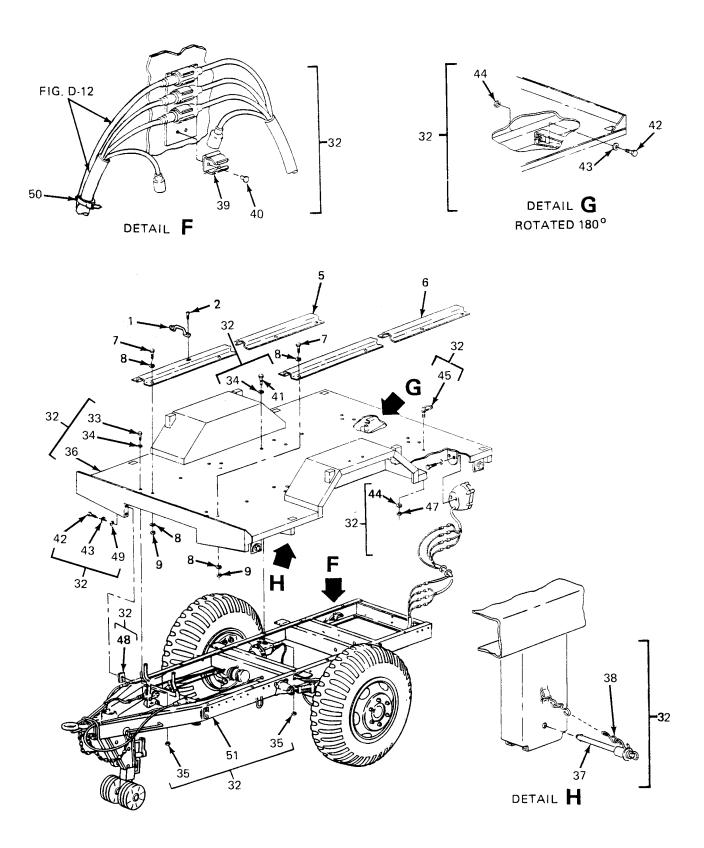


Figure D-9. Trailer Body (Sheet 2 of 2).

(1)		(2)				(3)		(4)	(5)	(6)	(7)	(8)
ILLUS		SMR CODE	í			USMC			DESCRIPTION		Omy	HOMO
TRAT]	B	7.	В	C	D	7.	В	NATIONAL	USABLE		QTY INC	
			AIR	C	Б	Α	REPL		REF NUMBER ON		IN	PER
	NO.			NAVY	USMC	SSI		NUMBER		U/M		EOUIP
										-,		-2
									GROUP 05 - TRAILER 05 - BODY			
D-9	1	PAOZZ						5340-00-229-0340	LOOP, STRAP FASTENER MS51939-3 96906	EA	4	
D-9	2	PAOZZ						5305-00-957-7086	SCREW, MACHINE MS24693-S273 96906	EA	8	
D-9	3	PAOZZ						5310-00-014-5850	WASHER, FLAT MS27183-42 96906	EA	8	
D-9	4	PAOZZ						5310-00-059-9263	NUT, SELF-LOCKING MS21046C3 96906	EA	8	
D-9	5	XBFZZ							RAIL, MOUNTING, CURBSIDE 13220E4457-1 97403	EA	1	
D-9	6	XBFZZ							RAIL, MOUNTING, ROADSIDE 13220E4458-1 97403	EA	1	
D-9	7	XDOZZ						5305-00-782-9495	SCREW, CAP, HEX MS90725-111 96906	EA	16	
D-9	8	PAOZZ						5310-00-809-5998	WASHER, FLAT MS27183-18 96906	EA	32	
D-9	9	PAOZZ						5310-00-225-6993	NUT, SELF-LOCKING MS51922-33 96906	EA	16	
D-9	10	PAOZZ						4120-00-223-4857	BRACKET, FIRE EXTINGUISHER 13214E1235 97403	EA	2	
D-9	11	PAOZZ						5305-00-068-0502	SCREW, CAP, HEX MS90725-6 96906	EA	8	
D-9	12	PAOZZ						5310-00-809-4058	WASHER, FLAT MS27183-10 96906	EA	16	
D-9	13	PAOZZ						5310-00-088-1251	NUT, SELF-LOCKING MS51922-1 96906	EA	8	
D-9	14	PAOZZ						5340-00-930-1754	CLAMP, LOOP MS21334-2 96906	EA	1	
D-9	15	PAOZZ						5305-00-984-6211	SCREW, MACHINE MS35206-264 96906	EA	1	
D-9	16	PAOZZ						5310-00-045-3296	LOCKWASHER MS35338-43 96906	EA	1	
D-9	17	PAOZZ						5310-00-809-8546	WASHER, FLAT MS27183-8 96906	EA	2	
D-9	18	PAOZZ						5310-00-934-9758	NUT, PLAIN, HEX MS35649-202 96906	EA	1	
D-9	19	PAFZZ							WIRE, NO. 6 AWG QQW-343C06BIB 81348	FT	AR	
D-9	20								SLEEVE MS51844-49 96906	EA	1	

(1) ILLUS- TRATION	(2) SMR COI	DE .		(3) USMC		(4)	(5) DESCRIPTION	(6)	(7) OTY	
A B FIG ITEM NO. NO.		B AIR FORCE			REPL		USABLE REF NUMBER ON & MFR CODE CODE		INC IN	QTY PER
							05 - BODY - CONT			
D-9 21	PAOZZ					5975-00-074-207	7 STRAP, TIEDOWN MS3367-1-9 96906	EA	AR	
D-9 22						4730-00-809-970	DELBOW, PIPE TO HOSE MS24519-9 96906	EA	2	
D-9 23	PAOZZ					4730-00-908-319	OCLAMP, HOSE MS35842-11 96906	EA	2	
D-9 24							HOSE, RUBBER MIL-H-6000 81349	EA	2	
D-9 25	PAFZZ					5325-00-903-590	GROMMET MS35489-112 96906	EA	2	
D-9 26	PAOZZ					5310-00-543-471	NUT, PLAIN, WING MS35425-28 96906	EA	1	
D-9 27	PAOZZ					5310-01-004-912	2 WASHER, FLAT AN961-616S 81352	EA	4	
	PAOZZ					5310-00-187-241	WASHER, FLAT AN961-616T 81352	EA	4	
D-9 28	PAOZZ					5310-01-026-582	NUT, PLAIN, HEX MS16203-39 96906	EA	3	
D-9 29	PAOZZ					5307-00-227-174	1 STUD 13214E1223 97403	EA	1	
D-9 30	PAOZZ					5310-00-913-977	7 LOCKWASHER MS35335-91 96906	EA	2	
D-9 31	PAOZZ					5940-00-115-499	TERMINAL, LUG MS20659-110 96906	EA	5	
D-9 32	MDOFF						TRAILER ASSY 13226E5858 97403	EA	1	
D-9 33	PAOZZ					5305-01-186-714	1.SCREW, CAP, HEX 13218E0021-41 97403	EA	2	
D-9 34	PAOZZ					5310-00-823-880	).WASHER, FLAT MS27183-21 96906	EA	16	
D-9 35	PAOZZ					5310-00-269-404	1 .NUT, SELF-LOCKING MS51922-49 96906	EA	16	
D-9 36	XAFFF						.FLATBED, TRAILER 13226E5857 97403	EA	1	
D-9 37	PAFZZ					5340-00-878-526	5PIN, QUICK-RELEASE MS17990C613 96906	EA	12	
D-9 38							CHAIN, WELDLESS 13218E0025-4 97403	EA	12	
D-9 39							CLIP, SPRING TENSION M24066/2-128	) EA	8	
D-9 40						5320-00-637-606	5RIVET, SOLID MS20427-4C5 96906	EA	16	

		(2) SMR COD	Œ			(3) USMC		(4)	(5) DESCRIPTION	(6)	(7) QTY	
	B ITEM	A	B AIR	С	D	A			REF NUMBER ON		INC IN	PER
NO.	NO.	ARMY	FORCE	NAVY	USMC	SSI	FACTOR	NUMBER	& MFR CODE CODE	U/M	UNIT	EQUIP
									05 - BODY - CONT			
D-9	41	PAOZZ						5305-00-724-591	.SCREW, CAP, HEX MS90725-163 96906	EA	14	
D-9	42	PAOZZ						5305-00-269-321	.SCREW, CAP, HEX MS90725-60 96906	EA	16	
D-9	43	PAOZZ						5310-00-080-600	.WASHER, FLAT MS27183-14 96906	EA	16	
D-9	44	PAOZZ						5310-00-087-465	.NUT, SELF-LOCKING MS51922-17 96906	EA	12	
D-9	45	PAOZZ							.RING, LIFTING 13226E7730-6 97403		2	
D-9	46	PAOZZ						5310-00-584-788	.WASHER MS35338-51 96906	EA	2	
D-9	47	PAOZZ						5310-00-832-971	.NUT, SELF-LOCKING MS51922-61 96906	EA	2	
D-9	48								.SHIM 13212E3590 97403	EA	AR	
D-9	49	PAOZZ						5310-00-637-954	.LOCKWASHER MS35338-46 96906	EA	4	
D-9	50	PAOZZ						5975-00-074-207	.STRAP, TIEDOWN MS3367-1-9 96906	EA	AR	
D-9	51	MDOFF							.CHASSIS, TRAILER 13226E7734 97403	EA	1	

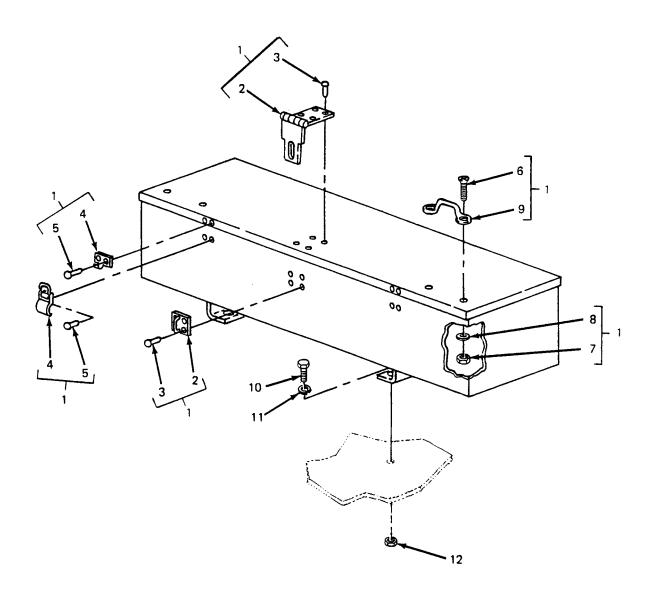


Figure D-10. Accessory Box.

(1) ILLUS-		3		(3) USMC			(5) DESCRIPTION		(7)	
FIG ITEM		AIR			REPL		USABLE REF NUMBER ON & MFR CODE CODE		QTY INC IN UNIT	QTY PER
							05 - ACCESSORY BOX			
D-10 1	PB000					6115-01-230-067	BOX, ACCESSORY 13226E7737 97403	EA	1	
D-10 2	PBFZZ						.HASP, HINGED MS27969-4 96906	EA	1	
D-10 3	PAFZZ						.RIVET, SOLID MS9460-102 96906	EA	8	
D-10 4	PAFZZ						.CATCH, CLAMPING AND STRIKE MS18015-1 96906	EA	2	
D-10 5	PAFZZ						.RIVET, SOLID MS20613-4P5 96906	EA	8	
D-10 6	PAOZZ						.SCREW, MACHINE MS24693-S273 96906	EA	4	
D-10 7	PAOZZ						.NUT, SELF-LOCKING MS21046C3 96906	EA	4	
D-10 8	PAOZZ						.WASHER, FLAT MS27183-42 96906	EA	4	
D-10 9	PAOZZ						.LOOP, STRAP FASTENER MS51939-3 96906	EA	2	
D-10 10	PAOZZ						SCREW, CAP, HEX MS90725-31 96906	EA	4	
D-10 11	PAOZZ					5310-00-407-956	LOCKWASHER MS35338-45 96906	EA	4	
D-10 12	PAOZZ						NUT, PLAIN, HEX MS51967-5 96906	EA	4	

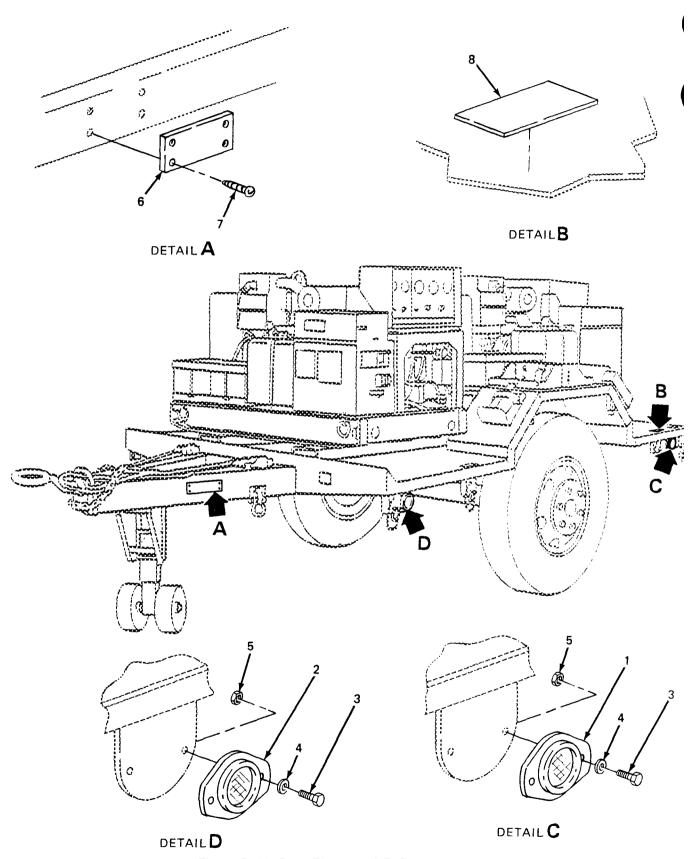


Figure D-11. Data Plates and Reflectors,

(1) ILLUS-	(2) SMR COI	DE			(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	(8)
TRATION  A B  FIG IT  NO. NO	'EM	B AIR FORCE	C NAVY	D USMC	A SSI	B REPL FACTOR		USABLE REF NUMBER ON & MFR CODE CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
								05 - DATA PLATES AND RELECTORS			
D-11 1	PAOZZ						9905-00-205-2795	REFLECTOR, RED MS35387-1 96906	EA	4	
D-11 2	PAOZZ							REFLECTOR, AMBER MS35387-2 96906	EA	2	
D-11 3	PAOZZ						5305-00-068-0500	SCREW, CAP, HEX MS90725-3 96906	EA	12	
D-11 4	PAOZZ						5310-00-809-4058	WASHER, FLAT MS27183-10 96906	EA	12	
D-11 5	PAOZZ						5310-00-088-1251	NUT, SELF-LOCKING MS51922-1 96906	EA	12	
D-11 6	PAOZZ							PLATE, IDENTIFICATION 13220E4463-1 97403	EA	1	
D-11 7	PAOZZ						5305-00-253-5614	SCREW, DRIVE MS21318-20 96906	EA	4	
D-11 8	PAOZZ						9905-01-085-7703	PLATE, IDENTIFICATION 13205E4918 97403	EA	1	

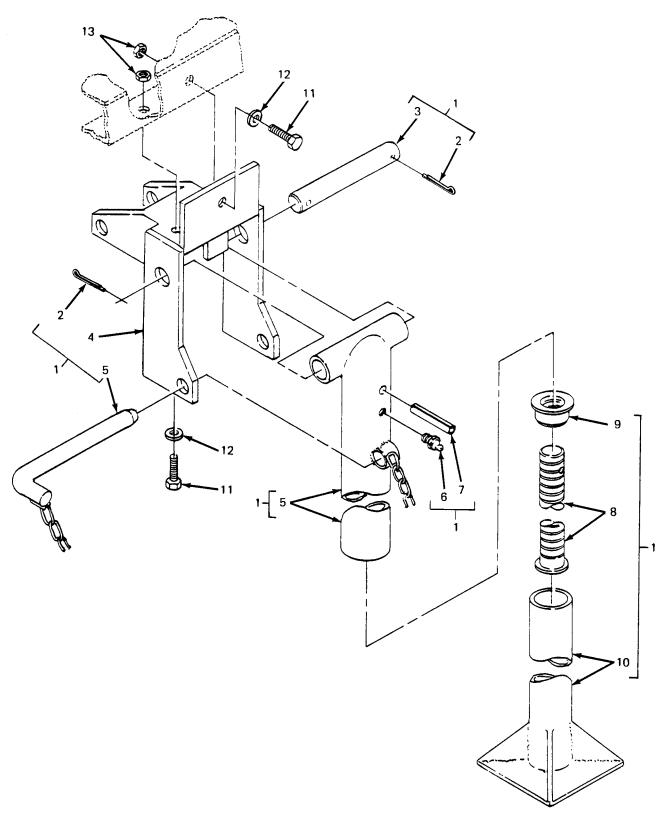


Figure D-12. Leg Prop Assembly.

(1) ILLU	S-	(2) SMR COL	DΕ		(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	
FIG	B ITEM	A ARMY	AIR			REPL	NATIONAL STOCK NUMBER	USABLE REF NUMBER ON & MFR CODE CODE		INC IN	PER
								05 - FRAME			
D-12	1	XBFFZ					2950-00-420-892	2 LEG PROP ASSEMBLY 13214E1206 97403	EA	1	
D-12	2	PAOZZ					5315-00-839-582	2.PIN, COTTER MS24665-353 96906	EA	2	
D-12	3	XBOZZ					5315-01-162-014	1 .SHAFT 13214E1209 97403	EA	1	
D-12	4	XBOZZ					6115-01-220-154	1 .BRACKET 13214E1207 97403	EA	1	
D-12	5	XOBZZ					2590-00-453-89	7.LEG, UPPER 13214E1208 97403	EA	1	
D-12	6	PAOZZ					4730-00-172-004	1.FITTING, LUBRICATION MS15006-1 96906	N EA	1	
D-12	7	XBOZZ					5315-00-838-458	3.PIN, SPRING MS16562-66 96906	EA	1	
D-12	8	XBOZZ					5315-01-158-214	1 .SCREW 13214E1210	EA	1	
D-12	9	PAOZZ					5310-01-149-086	5 .NUT 13214E1211 97403	EA	1	
D-12	10	XBOZZ					2590-01-167-859	BASE, LEG 13214E1212 97403	EA	1	
D-12	11	PAOZZ					5305-00-269-323	SCREW, CAP, HEX MS90725-62 96906	EA	3	
D-12	12	PAOZZ					5310-00-080-600	) WASHER, FLAT MS27183-14 96906	EA	3	
D-12	13	PAOZZ					5310-00-087-465	NUT, SELF-LOCKING MS51922-17	EA	3	

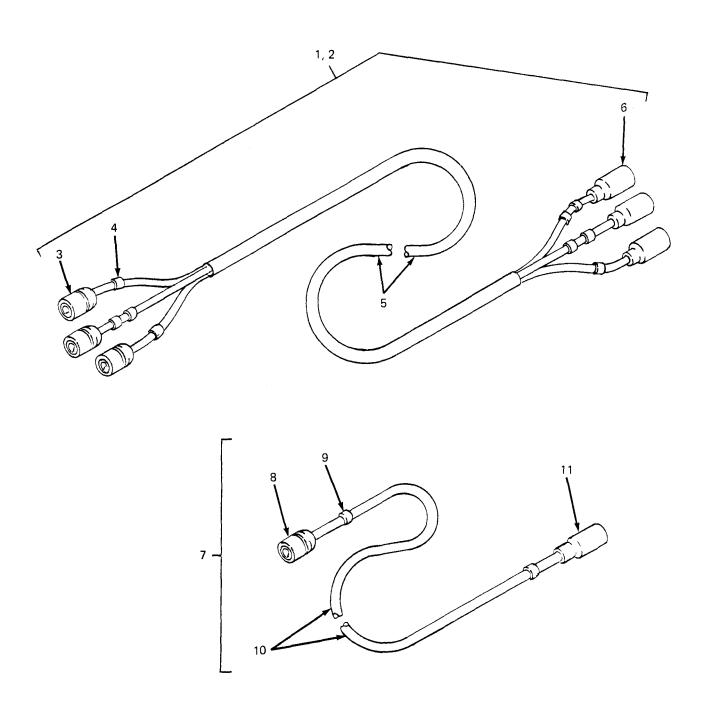


Figure D-13. Taillight Cable Assemblies and Electrical Leads.

(1) ILLUS-	(2) SMR CO	DE		(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	
TRATION  A B  FIG ITEM  NO. NO.	I	B AIR FORCE			B REPL FACTOR	NATIONAL STOCK NUMBER	USABI REF NUMBER ON & MFR CODE CODI	U/M	INC IN	USMC QTY PER EQUIP
							05 - TAILLIGHT CABI AND ELECTRICAL LEAR			
D-13 1	MOOFF					6150-01-166-911	12 CABLE ASSY, ROADSII 13216E7479-1 97403	EA	1	
D-13 2	MOOFF					6150-01-166-911	11CABLE ASSY, CURBSII 13216E7479-2 97403	EA	1	
D-13 3	PAOZZ					5935-00-167-777	75.CONNECTOR, PLUG MS27144-1 96906	EA	6	
D-13 4	PAOZZ					9905-01-B75-105	51.BAND, MARKER M43436/1-6 81349	EA	20	
D-13 5	MFFZZ						.CABLE M13486/7 81349 TYPE I, CL. B	EA	2	
D-13 6	PAOZZ					5935-00-462-660	)3.CONNECTOR, PLUG MS27142-2 96906	EA	6	
D-13 7	MOOFF					6150-01-166-913	35.LEAD, ELECTICAL 13216E7476 97403	EA	2	
D-13 8	PAOZZ					5935-00-167-777	75.CONNECTOR, PLUG MS27144-1 96906 STYLE I	EA	2	
D-13 9	PAOZZ					9905-01-B75-105	51.BAND, MARKER M43436/1-6 81349	EA	4	
D-13 10	PAOZZ					6145-00-152-649	99.CABLE M13486/1-5 81349 TYPE I, CL. A	EA	2	
D-13 11	PAOZZ					5935-00-462-660	)3.CONNECTOR, PLUG MS27142-2 96906	EA	2	

SECTION III. SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT

NOT APPLICABLE

No.   No.		FICUDE	TTEM		ETCIDE	ттем
2540-00-924-8478	NSN	FIGURE NO.		NSN	FIGURE NO.	ITEM NO.
1						
2990-0420-8929	2540-00-924-8478	D-1	9	5310-00-809-4058	D-11	4
	2540-00-926-1003	D-1	10	5310-00-809-5998	D-9	8
	2590-00-420-8929	D-12	1	5310-00-809-8546	D-6	11
4750-09-08-3194         D-9         23         \$310-00-882-7749         D-9         11         23         510-00-880-7744         D-9         30         12         5305-00-268-05002         D-9         11         \$310-00-913-7766         D-9         30		D-9	10		D-9	17
1000-008-0500   D-11   3   3310-00-880-7744   D-10   12   13   1300-00-880-7744   D-10   3   13   1300-00-11-9766   D-9   3   15   1300-00-11-9766   D-9   3   15   1300-00-11-9766   D-9   3   15   1300-00-11-9768   D-6   28   1300-00-24-4218   D-6   28   1300-00-24-4218   D-6   27   27   27   27   27   27   27   2		D-9				
Sano-0-068-0502         D-9         11         Sano-0-079-24-4218         D-9         28           Sano-0-0269-3211         D-9         42         D-7         27           Sano-0-0269-3211         D-9         42         D-0-0924-4218         D-6         13           Sano-0-079-5235         D-2         2         5310-00-934-9758         D-6         13           Sano-0-0782-9495         D-9         7         12         5305-00-984-9013         D-6         26           Sano-0-0782-9495         D-9         7         25         5310-00-942-5109         D-6         27           Sano-0-984-9003         D-6         26         D-7         26         D-7         26           Sano-0-987-7086         D-9         2         D-7         21         5310-01-875-1034         D-7         3           Sano-0-984-62014         D-6         10         5310-01-875-1034         D-7         3           Sano-0-984-6211         D-9         12         4         D-8         16         4           Sano-0-984-6211         D-6         10         5310-01-025-5824         D-7         29           Sano-0-984-6214         D-6         10         5310-01-150-5922         D-7						
Sabe-0-269-3211         D-9         42         5306-00-269-3211         D-9         42         27         27         2305-00-269-3213         D-12         4         5305-00-269-3213         D-12         4         5305-00-194-9788         D-6         13         25         2         2         3310-00-934-9788         D-6         13         25         3305-00-724-5911         D-9         41         10         0-7         12         25         3305-00-984-9003         D-6         26         26         D-0         D-8         12         2305-00-984-9003         D-6         26         26         D-0         D-7         26         2305-00-984-9003         D-6         25         D-0         D-7         26         27         26         27         26         27         26         27         26         27         26         27         26         27         26         27         26         27         26         27         26         27         26         27         26         27         26         27         28         28         2000-004-004-0129         D-7         27         27         28         28         2000-004-014-0129         D-7         26         20         20         20         <						
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S305-00-719-S235         D-2         2         S310-00-934-9758         D-6         13           S305-00-782-9495         D-9         7         D-8         12           S305-00-954-9003         D-6         2         D-9         18           D-8         25         S310-00-942-5109         D-6         27           S305-00-957-7086         D-9         2         D-7         26           S305-00-984-5695         D-6         22         D-8         3           S305-00-984-6211         D-9         15         S310-01-004-9129         D-7         16           D-9         15         S310-01-004-9129         D-7         16         16           S305-00-984-6214         D-9         15         S310-01-004-9129         D-7         4           S305-00-988-1727         D-8         15         S310-01-026-5824         D-6         44           S305-00-988-1727         D-7         37         37         330-01-01-026-5824         D-6         44           S305-00-988-1727         D-7         37         37         330-01-01-150-5922         D-2         4           S305-00-988-1727         D-7         37         330-01-150-5922         D-2         4 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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5305-00-954-9003         D-6         26         S 5310-00-942-5109         D-6         27           5305-00-957-7086         D-9         2         D-7         26           5305-00-984-5695         D-6         22         D-7         26           5305-00-984-5695         D-6         22         D-7         16           5305-00-984-6214         D-9         15         D-9         27           5305-00-984-6214         D-6         10         5310-01-026-5824         D-6         44           D-7         D-7         9         D-9         27           5305-00-988-1727         D-7         37         5310-01-160-5922         D-2         4           5305-00-988-1747         D-7         37         5310-01-160-5922         D-2         4           5305-01-186-7145         D-9         19         29         5310-01-160-2217         D-6         30           5305-01-186-7145         D-9         29         5315-01-162-0143         D-12         2           5310-00-022-8844         D-6         14         3315-00-939-8922         D-12         2           5310-00-022-8847         D-6         15         5320-00-637-6068         D-9         40						
D-7						
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S305-00-957-7086				5310-00-942-5109		
D-10   6   S310-01-B75-1034   D-7   3						
Sand-no-neward-series	5305-00-957-7086					
D-7				5310-01-B75-1034		
D-8   21	5305-00-984-5695					
S305-00-984-6211				5310-01-004-9129		
S305-00-984-6214	5005 00 004 6011					
D-7   9   D-9   28				5310 01 006 5004		
Dec   Part   P	5305-00-984-6214			5310-01-026-5824		
S305-00-988-1,727				5310 01 150 5000		
5305-00-989-7434         D-6         19         D-8         29           5305-01-186-7145         D-9         33         5310-01-190-2217         D-6         30           5307-00-227-1741         D-6         43         5315-00-162-0143         D-12         2           5310-00-014-5850         D-9         3         5320-00-117-6963         D-7         5           5310-00-022-8834         D-6         15         5320-00-637-6068         D-9         40           D-8         14         D-6         5         5320-00-721-5244         D-6         5           5310-00-022-8847         D-6         41         5320-00-753-3830         D-10         5           5310-00-022-8847         D-6         12         5320-00-954-0113         D-6         7           5310-00-045-3296         D-6         12         5320-00-954-0113         D-6         37           5310-00-059-9263         D-9         16         5325-00-993-5909         D-9         25           5310-00-059-9263         D-9         4         5325-01-897-3182         D-1         3           5310-00-080-6004         D-6         23         D-7         20           D-8         22         5330-00-579-8108	5205 00 000 1505					
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D-9						
Salo-00-014-5850   D-9   3   S320-00-117-6963   D-7   5   S   S   S   S   S   S   S   S   S	5307-00-227-1741					
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D-7	F310 00 032 0034			F320 00 637 6060		
D-8	5310-00-022-8834					
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D-7						
D-8         11         5320-01-168-3097         D-10         3           5310-00-059-9263         D-9         16         5325-00-903-5909         D-9         25           5310-00-080-6004         D-6         23         D-7         20           D-8         22         5330-00-579-8108         D-6         21           D-8         20         D-7         20         D-8         20           D-8         22         5330-00-684-3420         D-6         25           D-9         43         D-7         24           D-9         43         D-7         24           5310-00-087-4652         D-6         24         5330-01-150-9792         D-7         30           D-7         23         D-8         24           5310-00-088-1251         D-6         24         5330-01-162-8585         D-6         9           D-9         44         D-7         39         D-8         8           5310-00-184-8971         D-7         39         5330-01-187-3493         D-6         31           5310-00-187-2413         D-6         17         5340-00-29-0340         D-9         1           5310-00-187-2413         D-6 <td< td=""><td>5310-00-045-3296</td><td></td><td></td><td>5320-00-954-0113</td><td></td><td></td></td<>	5310-00-045-3296			5320-00-954-0113		
5310-00-059-9263         D-9         4         5325-00-903-5909         D-9         25           5310-00-080-6004         D-6         23         D-10         7         5330-00-579-8108         D-6         21           5310-00-080-6004         D-6         23         D-7         22         D-8         20           D-7         22         D-8         20         D-6         25           D-9         43         D-7         24         D-7         24           D-9         43         D-7         24         D-7         24           5310-00-087-4652         D-6         24         5330-01-150-9792         D-7         30           D-8         23         5330-01-162-8585         D-6         9           D-8         23         5330-01-162-8585         D-6         9           D-9         44         D-7         8           5310-00-088-1251         D-7         39         5330-01-187-3493         D-6         9           5310-00-184-8971         D-6         17         5340-00-297-0299         D-1         4           5310-00-187-2413         D-6         40         5340-00-297-0299         D-1         4           D-				F320 01 160 3007		
D-9						
5310-00-080-6004         D-6         23         D-7         20           D-7         22         D-8         20           D-8         22         5330-00-684-3420         D-6         25           D-9         43         D-7         24           D-9         43         D-7         24           5310-00-087-4652         D-6         24         5330-01-150-9792         D-7         30           D-8         23         5330-01-162-8585         D-6         9           D-9         44         D-7         8         D-7         8           5310-00-088-1251         D-7         39         5330-01-187-3493         D-6         31           5310-00-184-8971         D-6         17         5340-00-078-7029         D-1         4           5310-00-187-2413         D-6         17         5340-00-0229-0340         D-9 <t< td=""><td>F310 00 0F0 0363</td><td></td><td></td><td></td><td></td><td></td></t<>	F310 00 0F0 0363					
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D-9         43         D-7         24           5310-00-087-4652         D-6         24         5330-01-150-9792         D-7         30           D-7         23         D-8         30         D-8         30           D-8         23         5330-01-162-8585         D-6         9           D-9         44         D-7         8           D-9         12         6         D-8         8           5310-00-088-1251         D-7         39         5330-01-187-3493         D-6         31           D-9         13         5340-00-057-6956         D-1         5           D-11         5         5340-00-078-7029         D-1         4           5310-00-184-8971         D-6         17         5340-00-229-0340         D-9         1           D-6         39         5340-00-234-8422         D-10         2           5310-00-187-2413         D-6         40         5340-00-878-5264         D-9         37           D-7         16         5340-00-930-1754         D-9         14           D-8         16         5340-00-930-1754         D-9         14           D-8         16         5340-00-930-1754         D-9				5330-00-684-3420		
D-12         5         D-8         24           5310-00-087-4652         D-6         24         5330-01-150-9792         D-7         30           D-7         23         D-8         30           D-8         23         5330-01-162-8585         D-6         9           D-9         44         D-7         8           D-9         13         5330-01-187-3493         D-6         31           D-9         13         5340-00-057-6956         D-1         5           D-11         5         5340-00-078-7029         D-1         4           5310-00-184-8971         D-6         17         5340-00-239-0340         D-9         1           5310-00-187-2413         D-6         40         5340-00-234-8422         D-10         2           5310-00-187-2413         D-6         40         5340-00-930-1754         D-9         14           D-7         16         5340-00-930-1754         D-9         14           D-8         16         5340-00-930-1754         D-9         14           D-9         27         5365-01-031-9674         D-1         7           5310-00-225-6993         D-9         9         5930-00-829-3243         <				3330 00 001 3120		
5310-00-087-4652         D-6         24         5330-01-150-9792         D-7         30           D-7         23         D-8         30           D-8         23         5330-01-162-8585         D-6         9           D-9         44         D-7         8           D-12         6         D-8         8           5310-00-088-1251         D-7         39         5330-01-187-3493         D-6         31           D-9         13         5340-00-057-6956         D-1         5           D-11         5         5340-00-078-7029         D-1         4           5310-00-184-8971         D-6         17         5340-00-229-0340         D-9         1           D-6         39         5340-00-229-0340         D-9         1         2           5310-00-187-2413         D-6         40         5340-00-293-48422         D-10         2           D-7         16         5340-00-930-1754         D-9         14           D-8         16         5340-00-975-2126         D-10         4           D-9         27         5365-01-031-9674         D-1         7           5310-00-2247-7186         D-6         16         D-7						
D-7       23       D-8       30         D-8       23       5330-01-162-8585       D-6       9         D-9       44       D-7       8         D-12       6       D-8       8         5310-00-088-1251       D-7       39       5330-01-187-3493       D-6       31         D-9       13       5340-00-057-6956       D-1       5         D-11       5       5340-00-788-7029       D-1       4         5310-00-184-8971       D-6       17       5340-00-234-8422       D-10       2         5310-00-187-2413       D-6       40       5340-00-234-8422       D-10       2         5310-00-187-2413       D-6       40       5340-00-930-1754       D-9       37         D-7       16       5340-00-975-2126       D-10       4         D-8       16       5340-00-975-2126       D-10       4         D-9       27       5365-01-031-9674       D-1       7         5310-00-225-6993       D-9       9       5930-00-829-3243       D-6       20         5310-00-247-7186       D-6       16       D-7       19         D-7       15       D-8       19	5310-00-087-4652			5330-01-150-9792		
D−8         23         5330-01-162-8585         D−6         9           D−9         44         D−7         8           D−12         6         D−8         8           5310-00-088-1251         D−7         39         5330-01-187-3493         D−6         31           D−9         13         5340-00-057-6956         D−1         5           D−11         5         5340-00-078-7029         D−1         4           5310-00-184-8971         D−6         17         5340-00-229-0340         D−9         1           D−6         39         5340-00-234-8422         D−10         2           5310-00-187-2413         D−6         40         5340-00-878-5264         D−9         37           D−7         16         5340-00-930-1754         D−9         14           D−8         16         5340-00-975-2126         D-10         4           D−9         27         5365-01-031-9674         D−1         7           5310-00-225-6993         D−9         9         5930-00-829-3243         D−6         20           5310-00-247-7186         D−6         16         D−7         19         D−8         19           5310-00-269-4040         <						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				5330-01-162-8585		
5310-00-088-1251       D-7       39       5330-01-187-3493       D-6       31         D-9       13       5340-00-057-6956       D-1       5         D-11       5       5340-00-078-7029       D-1       4         5310-00-184-8971       D-6       17       5340-00-229-0340       D-9       1         D-6       39       5340-00-234-8422       D-10       2         5310-00-187-2413       D-6       40       5340-00-878-5264       D-9       37         D-7       16       5340-00-930-1754       D-9       14         D-8       16       5340-00-975-2126       D-10       4         D-9       27       5365-01-031-9674       D-1       7         5310-00-225-6993       D-9       9       5930-00-829-3243       D-6       20         5310-00-247-7186       D-6       16       D-7       19         D-7       15       D-8       19         5310-00-269-4040       D-9       35       D-13       3         5310-00-407-9566       D-10       11       5935-00-462-6603       D-13       6         5310-00-584-7417       D-6       38       D-13       D-1       1         <						
D-9         13         5340-00-057-6956         D-1         5           5310-00-184-8971         D-6         17         5340-00-229-0340         D-9         1           5310-00-187-2413         D-6         39         5340-00-234-8422         D-10         2           5310-00-187-2413         D-6         40         5340-00-878-5264         D-9         37           D-7         16         5340-00-930-1754         D-9         14           D-8         16         5340-00-975-2126         D-10         4           D-9         27         5365-01-031-9674         D-1         7           5310-00-225-6993         D-9         9         5930-00-829-3243         D-6         20           5310-00-247-7186         D-6         16         D-7         19           D-7         15         D-8         19           D-8         15         5935-00-167-7775         D-13         3           5310-00-269-4040         D-9         35         D-13         6           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-584-5272         D-2         3         D-7         13           5		D-12	6		D-8	8
D-9         13         5340-00-057-6956         D-1         5           5310-00-184-8971         D-6         17         5340-00-229-0340         D-9         1           5310-00-187-2413         D-6         39         5340-00-234-8422         D-10         2           5310-00-187-2413         D-6         40         5340-00-878-5264         D-9         37           D-7         16         5340-00-930-1754         D-9         14           D-8         16         5340-00-975-2126         D-10         4           D-9         27         5365-01-031-9674         D-1         7           5310-00-225-6993         D-9         9         5930-00-829-3243         D-6         20           5310-00-247-7186         D-6         16         D-7         19           D-7         15         D-8         19           D-8         15         5935-00-167-7775         D-13         3           5310-00-269-4040         D-9         35         D-13         6           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-584-5272         D-2         3         D-7         13           5	5310-00-088-1251			5330-01-187-3493		
D-11         5         5340-00-078-7029         D-1         4           5310-00-184-8971         D-6         17         5340-00-229-0340         D-9         1           D-6         39         5340-00-234-8422         D-10         2           5310-00-187-2413         D-6         40         5340-00-878-5264         D-9         37           D-7         16         5340-00-930-1754         D-9         14           D-8         16         5340-00-975-2126         D-10         4           D-9         27         5365-01-031-9674         D-1         7           5310-00-225-6993         D-9         9         5930-00-829-3243         D-6         20           5310-00-247-7186         D-6         16         D-7         19           D-7         15         D-8         19           D-8         15         5935-00-167-7775         D-13         3           5310-00-269-4040         D-9         35         D-13         6           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-584-5272         D-2         3         D-7         13           5310-00-584-7888         D						
D-6         39         5340-00-234-8422         D-10         2           5310-00-187-2413         D-6         40         5340-00-878-5264         D-9         37           D-7         16         5340-00-930-1754         D-9         14           D-8         16         5340-00-975-2126         D-10         4           D-9         27         5365-01-031-9674         D-1         7           5310-00-225-6993         D-9         9         5930-00-829-3243         D-6         20           5310-00-247-7186         D-6         16         D-7         19           D-7         15         D-8         19           D-8         15         5935-00-167-7775         D-13         3           5310-00-269-4040         D-9         35         D-13         8           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-584-5272         D-2         3         D-7         13           5310-00-584-7988         D-9         46         D-8         13           5310-00-584-7995         D-6         42         5940-00-105-6331         D-6         8           5310-00-637-9541		D-11	5	5340-00-078-7029	D-1	4
5310-00-187-2413         D-6         40         5340-00-878-5264         D-9         37           D-7         16         5340-00-930-1754         D-9         14           D-8         16         5340-00-975-2126         D-10         4           D-9         27         5365-01-031-9674         D-1         7           5310-00-225-6993         D-9         9         5930-00-829-3243         D-6         20           5310-00-247-7186         D-6         16         D-7         19           D-7         15         D-8         19           5310-00-269-4040         D-9         35         D-13         8           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-543-4717         D-6         38         D-13         1           D-9         26         5940-00-021-3321         D-6         14           5310-00-584-7888         D-9         46         D-8         13           5310-00-637-9541         D-9         49         D-7         7           5310-00-809-4058         D-7         38         D-7         D-8         7	5310-00-184-8971	D-6	17	5340-00-229-0340	D-9	1
D-7         16         5340-00-930-1754         D-9         14           D-8         16         5340-00-975-2126         D-10         4           D-9         27         5365-01-031-9674         D-1         7           5310-00-225-6993         D-9         9         5930-00-829-3243         D-6         20           5310-00-247-7186         D-6         16         D-7         19           D-7         15         D-8         19           D-8         15         5935-00-167-7775         D-13         3           5310-00-269-4040         D-9         35         D-13         8           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-543-4717         D-6         38         D-13         11           D-9         26         5940-00-021-3321         D-6         14           5310-00-584-5272         D-2         3         D-7         13           5310-00-584-7988         D-9         46         D-8         D-8         13           5310-00-637-9541         D-9         49         D-7         7           5310-00-809-4058         D-7         38         D-8 </td <td></td> <td>D-6</td> <td>39</td> <td>5340-00-234-8422</td> <td>D-10</td> <td>2</td>		D-6	39	5340-00-234-8422	D-10	2
D-8         16         5340-00-975-2126         D-10         4           D-9         27         5365-01-031-9674         D-1         7           5310-00-225-6993         D-9         9         5930-00-829-3243         D-6         20           5310-00-247-7186         D-6         16         D-7         19           D-7         15         D-8         19           D-8         15         5935-00-167-7775         D-13         3           5310-00-269-4040         D-9         35         D-13         8           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-543-4717         D-6         38         D-13         11           D-9         26         5940-00-021-3321         D-6         14           5310-00-584-5272         D-2         3         D-7         13           5310-00-584-7888         D-9         46         D-8         13           5310-00-637-9541         D-9         49         D-7         7           5310-00-809-4058         D-7         38         D-8         7	5310-00-187-2413	D-6	40	5340-00-878-5264	D-9	37
D-9         27         5365-01-031-9674         D-1         7           5310-00-225-6993         D-9         9         5930-00-829-3243         D-6         20           5310-00-247-7186         D-6         16         D-7         19           D-7         15         D-8         19           D-8         15         5935-00-167-7775         D-13         3           5310-00-269-4040         D-9         35         D-13         8           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-543-4717         D-6         38         D-13         11           D-9         26         5940-00-021-3321         D-6         14           5310-00-584-5272         D-2         3         D-7         13           5310-00-584-7888         D-9         46         D-8         13           5310-00-637-9541         D-9         49         D-7         7           5310-00-809-4058         D-7         38         D-8         7		D-7	16	5340-00-930-1754	D-9	14
5310-00-225-6993         D-9         9         5930-00-829-3243         D-6         20           5310-00-247-7186         D-6         16         D-7         19           D-7         15         D-8         19           D-8         15         5935-00-167-7775         D-13         3           5310-00-269-4040         D-9         35         D-13         8           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-543-4717         D-6         38         D-13         11           D-9         26         5940-00-021-3321         D-6         14           5310-00-584-5272         D-2         3         D-7         13           5310-00-584-7888         D-9         46         D-8         13           5310-00-637-9541         D-9         49         D-7         7           5310-00-809-4058         D-7         38         D-8         7		D-8	16	5340-00-975-2126	D-10	4
5310-00-247-7186       D-6       16       D-7       19         D-7       15       D-8       19         D-8       15       5935-00-167-7775       D-13       3         5310-00-269-4040       D-9       35       D-13       8         5310-00-407-9566       D-10       11       5935-00-462-6603       D-13       6         5310-00-543-4717       D-6       38       D-13       11         D-9       26       5940-00-021-3321       D-6       14         5310-00-584-5272       D-2       3       D-7       13         5310-00-584-7888       D-9       46       D-8       13         5310-00-584-7995       D-6       42       5940-00-105-6331       D-6       8         5310-00-637-9541       D-9       49       D-7       7         5310-00-809-4058       D-7       38       D-8       7		D-9	27	5365-01-031-9674	D-1	7
D-7         15         D-8         19           D-8         15         5935-00-167-7775         D-13         3           5310-00-269-4040         D-9         35         D-13         8           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-543-4717         D-6         38         D-13         11           D-9         26         5940-00-021-3321         D-6         14           5310-00-584-5272         D-2         3         D-7         13           5310-00-584-7888         D-9         46         D-8         13           5310-00-584-7995         D-6         42         5940-00-105-6331         D-6         8           5310-00-637-9541         D-9         49         D-7         7           5310-00-809-4058         D-7         38         D-8         7	5310-00-225-6993	D-9	9	5930-00-829-3243	D-6	20
D-8         15         5935-00-167-7775         D-13         3           5310-00-269-4040         D-9         35         D-13         8           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-543-4717         D-6         38         D-13         11           D-9         26         5940-00-021-3321         D-6         14           5310-00-584-5272         D-2         3         D-7         13           5310-00-584-7888         D-9         46         D-8         13           5310-00-584-7995         D-6         42         5940-00-105-6331         D-6         8           5310-00-637-9541         D-9         49         D-7         7           5310-00-809-4058         D-7         38         D-8         7	5310-00-247-7186	D-6	16		D-7	19
5310-00-269-4040         D-9         35         D-13         8           5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-543-4717         D-6         38         D-13         11           D-9         26         5940-00-021-3321         D-6         14           5310-00-584-5272         D-2         3         D-7         13           5310-00-584-7888         D-9         46         D-8         13           5310-00-584-7995         D-6         42         5940-00-105-6331         D-6         8           5310-00-637-9541         D-9         49         D-7         7           5310-00-809-4058         D-7         38         D-8         7		D-7	15		D-8	19
5310-00-407-9566         D-10         11         5935-00-462-6603         D-13         6           5310-00-543-4717         D-6         38         D-13         11           D-9         26         5940-00-021-3321         D-6         14           5310-00-584-5272         D-2         3         D-7         13           5310-00-584-7888         D-9         46         D-8         13           5310-00-584-7995         D-6         42         5940-00-105-6331         D-6         8           5310-00-637-9541         D-9         49         D-7         7           5310-00-809-4058         D-7         38         D-8         7		D-8	15	5935-00-167-7775	D-13	3
5310-00-543-4717     D-6     38     D-13     11       D-9     26     5940-00-021-3321     D-6     14       5310-00-584-5272     D-2     3     D-7     13       5310-00-584-7888     D-9     46     D-8     13       5310-00-584-7995     D-6     42     5940-00-105-6331     D-6     8       5310-00-637-9541     D-9     49     D-7     7       5310-00-809-4058     D-7     38     D-8     7	5310-00-269-4040	D-9	35		D-13	8
D-9         26         5940-00-021-3321         D-6         14           5310-00-584-5272         D-2         3         D-7         13           5310-00-584-7888         D-9         46         D-8         13           5310-00-584-7995         D-6         42         5940-00-105-6331         D-6         8           5310-00-637-9541         D-9         49         D-7         7           5310-00-809-4058         D-7         38         D-8         7	5310-00-407-9566	D-10	11	5935-00-462-6603	D-13	6
5310-00-584-5272     D-2     3     D-7     13       5310-00-584-7888     D-9     46     D-8     13       5310-00-584-7995     D-6     42     5940-00-105-6331     D-6     8       5310-00-637-9541     D-9     49     D-7     7       5310-00-809-4058     D-7     38     D-8     7	5310-00-543-4717	D-6	38		D-13	11
5310-00-584-7888     D-9     46     D-8     13       5310-00-584-7995     D-6     42     5940-00-105-6331     D-6     8       5310-00-637-9541     D-9     49     D-7     7       5310-00-809-4058     D-7     38     D-8     7		D-9	26	5940-00-021-3321	D-6	14
5310-00-584-7995     D-6     42     5940-00-105-6331     D-6     8       5310-00-637-9541     D-9     49     D-7     7       5310-00-809-4058     D-7     38     D-8     7	5310-00-584-5272	D-2	3		D-7	13
5310-00-637-9541 D-9 49 D-7 7 5310-00-809-4058 D-7 38 D-8 7	5310-00-584-7888	D-9	46		D-8	13
5310-00-809-4058 D-7 38 D-8 7				5940-00-105-6331		
		D-9	49		D-7	
D-9 12 5940-00-113-8184 D-6 33	5310-00-809-4058					
		D-9	12	5940-00-113-8184	D-6	33

NSN	FIGURE	ITEM NO.	NSN	FIGURE	ITEM NO.
5940-00-113-8184	D-7	32	6115-01-206-1271	D-1	1
	D-8	32	6115-01-230-0677	D-10	1
5940-00-113-8190	D-3	4	6145-00-152-6499	D-13	10
5940-00-113-8191	D-7	48	6145-00-578-6594	D-6	50
5940-00-113-9831	D-7	49		D-7	46
5940-00-113-9833	D-4	6		D-8	38
5940-00-115-4992	D-9	31	6150-01-B76-1221	D-4	2
5940-00-115-5007	D-4	5	6150-01-166-9111	D-13	2
5940-00-557-4344	D-5	3	6150-01-166-9112	D-13	1
	D-6	49	6150-01-166-9135	D-13	7
	D-7	45	6210-00-253-0688	D-6	32
	D-8	37	6210-00-406-1398	D-7	31
5940-01-B75-1040	D-7	40		D-8	31
5975-00-074-2072	D-9	21	9905-00-202-3639	D-11	2
	D-9	50	9905-00-205-2795	D-11	1
5975-01-211-3346	D-7	28	9905-01-B75-1051	D-13	4
6110-00-133-9160	D-6	18		D-13	9
	D-7	17	9905-01-085-7703	D-11	8
	D-8	18	9905-01-875-3181	D-3	2
6115-00-465-1044	D-2	1			

REFERENCE		FIG.	ITEM	REFERENCE		FIG.	ITEM
NUMBER	FSCM	NO.	NO.	NUMBER	FSCM	NO.	NO.
AN961-416S		D-7	16	MS27183-21	96906	D-9	34
1100		D-8	16	MS27183-42	96906	D-7	10
AN961-416T		D-7	16			D-8	10
		D-8	16			D-9	3
AN961-616S	81352	D-9	27			D-10	8
AN961-616T	81352	D-6	40	MS27969-4	96906	D-10	2
C0-04HDE(4/1-	81349	D-9 D-3	27 5	MS28775-013	96906	D-6 D-7	25 24
4/12R)	01347	ЪЗ	3			D-8	24
C0-04H0E(4/6)		D-5	6	MS28775-111	96906	D-6	21
C0-04-HDF-1620	81349	D-4	3			D-7	20
(4/1-4/8R)						D-8	20
MEP-002A	30554	D-2	1	MS3367-1-9	96906	D-9	21
MIL-F-5591	81349	D-6	4			D-6	50
		D-7 D-8	4	MS35206-264 MS35206-267	96906 96906	D-9	15 10
MIL-G-16491		D-6 D-1	3	MS35206-267	96906	D-6 D-7	9
MIL-H-6000	81349	D-9	24			D-8	9
MIL-P-15024/8	81349	D-3	2	MS35206-283	96906	D-7	37
TYPE K2		D-4	4	MS35206-315	96906	D-6	22
MIL-S-43770/1-		D-1	8			D-7	21
SWZE3						D-8	21
MIL-R-24049	81349	D-1	2	MS35207-263	96906	D-6	19
MS16203-27	96906	D-6	42	MS35207-264	96906	D-7	18
MS16203-37	96906	D-6 D-7	16 15	MS35215-68	96906	D-6 D-7	26 25
		D-7 D-8	15			D-7 D-8	25
MS16203-39	96906	D-6	44	MS35333-108	96906	D-6	15
		D-9	28			D-7	14
MS16535-77	96906	D-6	7			D-8	14
MS16535-155	96906	D-6	37	MS35333-110	96906	D-6	41
		D-7	36	MS35335-89	96906	D-6	27
MS17990C	96906	D-9	37			D-7	26
MS18015-1	96906	D-10	4	WG25225 01	0.000	D-8	26
MS20426A4-6	96906	D-6 D-7	5 5	MS35335-91 MS35338-43	96906 96906	D-9 D-6	30 12
		D-7 D-8	5	M535330-43	96906	D-6 D-7	11
MS20427-4C5	96906	D-9	40			D-8	11
MS20613-4P5	96906	D-10	5			D-9	16
MS20659-110	96906	D-9	31	MS35338-45	96906	D-10	11
MS21046C3	96906	D-9	4	MS35338-46	96906	D-9	49
		D-10	7	MS35338-48	96906	D-2	3
MS21318-20	96906	D-11	7	MS35338-51	96906	D-9	46
MS21334-2	96906	D-9	14	MS35338-101	96906	D-6	17
MS24519-9	96906 96906	D-9 D-12	22 2	MS35338-103	96906	D-6 D-11	39 1
MS24665-353 MS24693-S273	96906	D-12 D-9	2	MS35387-1 MS35425-28	96906 96906	D-11 D-6	38
MD21095 B275	30300	D-10	6	11033123 20	30300	D-9	26
MS25036-120	96906	D-5	3	MS35489-112	96906	D-9	25
		D-6	49	MS35649-202	96906	D-6	13
		D-7	45			D-7	12
		D-8	37			D-8	12
MS25036-122	96906	D-3	4			D-9	18
MS25036-123	96906	D-3	3	MS35842-11 MS39347-2	96906	D-9	23
MS25036-127 MS25036-128	96906 96906	D-7 D-7	48 49	M333341-4	96906	D-6 D-7	14 13
MS25036-130	96906	D-4	5	MS35387-2	96906	D-11	2
MS25036-131	96906	D-4	6	MS39347-2	96906	D-8	13
MS25036-150	96906	D-6	33	MS51844-49	96906	D-9	20
		D-7	32	MS51922-1	96906	D-7	39
		D-8	32			D-9	13
MS27130-S-99	96906	D-6	3			D-11	5
MS27142-2	96906	D-13	6 11	MS51922-17	96906	D-6	24 23
MS27144-1	96906	D-13 D-13	11 3			D-7 D-8	23
MS2711111 MS27144-1	96906	D-13	8			D-9	44
STYLE 1		.=				D-12	6
MS27183-8	96906	D-6	11	MS51922-33	96906	D-9	9
		D-9	17	MS51922-49	96906	D-9	35
MS27183-10	96906	D-7	38	MS51922-61	96906	D-9	47
		D-9	12	MS51925-1	96906	D-1	7
MG27102 14	06006	D-11	4	MS51926-3	96906	D-1	4
MS27183-14	96906	D-6	23	MS51929-2	06006	D-1	5 1
		D-7 D-8	22 22	MS51939-3 MS51967-5	96906 96906	D-9 D-10	1 12
		D-8 D-9	43	MS51970-1	96906	D-10 D-6	28
		D-12	5			D-7	27
MS27183-18	96906	D-9	8				

REFERENCE		FIG.	ITEM	REFERENCE		FIG.	ITEM
NUMBER	FSCM	NO.	NO.	NUMBER	FSCM	NO.	NO.
		- 0	0.5	12010=600	0.7.4.0.0		4.0
MS51970-1	06006	D-8	27	13212E609-2	97403	D-7	43
MS90725-3	96906	D-11	3	12212#2600 2	07403	D-8	35
MS90725-6	96906	D-9	11	13212E3609-3	97403	D-6	47
MS90725-60	96906	D-9	42			D-7	44
MS90725-62	96906	D-12	4			D-8	36
MS90725-111	96906	D-9	7	13212E3609-4	97403	D-6	48
MS90725-163	96906	D-9	41	13212E3610	97403	D-6	9
MS90727-114	96906	D-2	2			D-7	8
MS9460-102	96906	D-10	3			D-8	8
M13486/1-5	81349	D-13	10	13214E1206	97403	D-12	1
TYPE 1 CLA				13214E1209	97403	D-12	3
M13486/7 TYPE 1	81349	D-13	5	13214E1223	97403	D-6	43
CLB						D-9	29
M23053/5	81349	D-5	4	13214E1235	97403	D-9	10
		D-5	5	13214E1392	97403	D-1	6
M23053/5-107-5	81349	D-4	7	13216E7476	97403	D-13	7
M23053/5-109-5	81349	D-4	9	13216E7479-1	97403	D-13	1
M24066/2-128		D-9	39	13216E7479-2	97403	D-13	2
M43436/1-6	81349	D-13	4	13216E7603	97403	D-6	34
		D-13	9			D-7	33
M5086/2-2	81349	D-7	50			D-8	33
M5086/2-6	81349	D-6	50	13218E0021-41	97403	D-9	33
		D-7	46	13218E0025-4	97403	D-9	38
		D-8	38	13218E5139-3	97403	D-7	29
QQW343C06	81349	D-4	8			D-8	29
QQ-W-343C06B1B	81349	D-9	19	13218E5139-4	97403	D-6	30
13205E4918	97403	D-11	8	13218E5140-3	97403	D-7	30
13205E5023	97403	D-6	20			D-8	30
		D-7	19	13218E5140-4	97403	D-6	31
		D-8	19	13218E5149-6	97403	D-8	28
13206E4482-2	97403	D-2	4	13218E5149-8	97403	D-6	29
13211E3895-5	97403	D-7	3	13218E5149-10	97403	D-7	28
13211E3895-5	97403	D-8	3	13220E4457-1	97403	D-9	5
13212E3581-1	97403	D-7	31	13220E4458-1	97403	D-9	6
		D-8	31	13220E4459	97403	D-7	1
13212E3581-2	97403	D-6	32			D-8	1
		D-6	33	13220E4460-1	97403	D-5	1
13212E3586-4	97403	D-7	47	13220E4461-1	97403	D-5	2
13212E3587	97403	D-6	6	13220E4463-1	97403	D-11	6
		D7	6	13220E4464	97403	D-7	2
		D-8	6			D-8	2
13212E3590	97403	D-9	48	13226E5857	97403	D-9	36
13212E3597-1	97403	D-1	9	13226E5858	97403	D-9	32
13212E3597-2	97403	D-1	10	13226E5888-1	97403	D-4	1
13212E3601-2	97403	D-6	1	13226E5888-2	97403	D-4	2
13212E3602	97403	D-6	2	13226E5889-1	97403	D-6	35
13212E3603	97403	D-6	18			D-7	34
1321223003	3,103	D-7	17	13226E5889-2	97403	D-6	36
		D-8	18			D-7	35
13212E3606	97403	D-6	8	13226E6011-1	97403	D-7	40
1321213000	J. 103	D-0 D-7	7	13226E6012	97403	D-7 D-7	41
		D-7 D-8	7	13226E7730-6	97403	D-7 D-9	45
13212E6309-1	97403	D-6	45	13226E7734	97403	D-9	51
13212H0307-1	21403	D-6 D-7	42	13226E7737	97403	D-9 D-10	1
		D-7 D-8	34	13226E7740	97403	D-10 D-1	1
13212E3609-2	97403	D-6	46	13227E0121	97403	D-1 D-3	1
1321213007-2	21403	ט ע	10	1022/20121	21403	د ب	±

SECTION V. REFERENCE DESIGNATOR INDEX

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CARL E. VUONO General, United States Army Chief of Staff

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TM 5-6115-631-14&P

PUBLICATION DATE

PUBLICATION TITLE

Power Plant AN/MJQ-16

Generator Sets M103A3 2-Wheel2-Tire

				IGENERATOR Sets MIUSAS 2-Wheel2-line
BE EXAC		POINT WHE		IN THIS SPACE TELL WHAT IS WRONG
PAGE NO	PARA- GRAPH	FIGURE NO	TABLE NO	AND WHAT SHOULD BE DONE ABOUT IT:
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	a	·		++ +
				manual sious the engineere
				b Cylendus. The engine on my
			1	
			] ]	set only has 4 Cylinders.
				Change the manual to show L
				Carles de A.
			1	Cylinder.
BI		4-3		Callant 16 an figure 4-3 in
0,		7		pointing at a bolt. In key
			ŀ	pointing at -
				to figure 4-3, item 16 is celled
				a shim was a consent
			ŀ	a shim - Please Correct
			ĺ	one or the other.
	4			
125	le	مع م	20	I ordered a gasket, item
				19 on figure B-16 ky NSN
			ļ	11 on figure 2 1 The
				2910-00-762-3001. Il got a
				gasket but it dresn't fit.
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				1 - 1 de de de la
			1	I ordered so the NSN is
			l	Wrong. Please give me a
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TM 5-6115-631-14&P POWER PLANT AN/MJQ-16 GENERATOR SETS,M103A3,2WHL,2TIRE
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PAGE PARA- FIGURE TABLE AND WHAT SHOULD BE DONE ABOUT IT:

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### The Metric System and Equivalents

Liquid Measure Liquid 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 I metric ton = 10 quintals = 1.1 short tons 1 centiliter = 10 milliters = .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 <b>by</b>
inches	centimeters	2.540	ounce-inches	newton-meters	.007062.
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

# **Temperature (Exact)**

°F Fahrenheit 5/9 (after Celsius °C temperature subtracting 32)

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