

TECHNICAL MANUAL

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

POWER UNIT  
PU-406B/M (NSN 6115-00-394-9576)  
MEP-005A 30 KW 60 HZ GENERATOR SET  
M200A1 2-WHEEL, 4-TIRE, MODIFIED  
TRAILER

This manual supersedes Chapter 3 of TM 5-6115-594-14&P dated 25 September 1984.

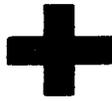
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HEADQUARTERS, DEPARTMENT OF THE ARMY

31 MAY 1988





**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**

**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 unit is in operation.

DEATH

or severe burns may result if personnel fail to observe safety precautions. Do not operate this power unit until the ground terminal stud has been connected to a suitable ground. Disconnect the battery ground cable on the generator set 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 set is 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 unit generator set 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 tank.

Do not smoke or use open flame in the vicinity of the generator set while fueling.

LIQUIDS UNDER HIGH PRESSURE

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

NOISE

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

**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 use near open flame or excessive heat. Flash point of solvent is 100°F. to 138°F. (38°C. to 59 °C.).



CHANGE

NO. 2

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D. C., 7 December 1990Operator's, Unit, Intermediate Direct Support  
and General Support Maintenance Manual  
(Including Repair Parts and Special Tools List)POWER UNIT  
PU-406B/M (NSN 6115-00-394-9576)  
MEP-005A 30 KW 60 HZ GENERATOR SET  
M200`A1 2-WHEEL, 4-TIRE, MODIFIED TRAILER

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TM 5-6115-626-14&amp;P, 31 May 1988, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages

Insert pages

D-27 and D-28

D-27 and D-28

2. Retain this sheet in front of manual for reference purposes.

**By Order of the Secretary of the Army:****CARL E. VUONO***General, United States Army  
Chief of Staff***Official:****THOMAS F. SIKORA***Brigadier General, United States Army  
The Adjutant General***DISTRIBUTION:**

To be distributed in accordance with DA Form 12-25E, (qty rqr block no. 3863)



CHANGE }  
NO. 1 }

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D.C., 5 June 1989

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

POWER PLANT  
AN/MJQ-15 (NSN 6115-00-400-7591)  
(2) MEP-113A 15 KW 400 HZ  
GENERATOR SETS  
(2) M200A1 2-WHEEL, 4-TIRE,  
MODIFIED TRAILERS

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TM 5-6115-628-14&P, 20 June 1988, is changed as follows:

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Remove pages

Insert pages

3-19/3-20

3-19/3-20

4-9 through 4-14

4-9 through 4-14

2. Retain this sheet in front of manual for reference purposes.

**By Order of the Secretary of the Army:**

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

**Official:**

**WILLIAM J. MEEHAN, II**  
*Brigadier General, United States Army*  
*The Adjutant General*

**DISTRIBUTION:**

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



Operator's, Unit, Intermediate Direct Support and General Support  
Maintenance Manual (Including Repair Parts and Special Tools Lists)  
for  
POWER UNIT, PU-406B/M  
(NSN 6115-00-394-9576)  
MEP-005A 30 KW 60 HZ GENERATOR SET  
M200A1 2-WHEEL, 4-TIRE, MODIFIED TRAILER

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# CHAPTER 1

## INTRODUCTION

### Section I. GENERAL

1-1. **Scope.** This manual is for use in operating and maintaining the Power Unit, PU-406B/M. The PU-406B/M is a mobile power unit used to supply power to any system or equipment requiring up to 30 KW of 50/60 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 unit.

1-2. **Limited Applicability.** Some portions of this publications 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.
- b. (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) Army - DA Form 2028 directly to: Commander, US Army Troop Support Command, ATTN: AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO, 63120-1798.
- b. (F) Air Force – AFTO Form 22 directly to: Commander, Sacramento Air Logistics Center, ATTN: MMEDT, McClellan Air Force Base, CA, 95652, 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 Troop Support Command, ATTN: AMSTR-QX, 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.
- b. (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. **(A) Destruction of Army Materiel.** Destruction of Army materiel to prevent enemy use shall be in accordance with TM 750-244-3.

**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 Unit PU-406B/M (figures 1-1 and 1-2) is made up of one Tactical Utility Generator Set, DOD Model MEP-005A, mounted on a modified M200A1 trailer. The generator set is a liquid-cooled, diesel engine-driven unit with a load capacity of 30 KW at 50/60 Hz. The trailer is a two-wheeled unit with dual tires mounted. The trailer has a 2.1/2-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.

**1-11. Tabulated Data.** The tabulated data provides operator and unit level personnel with the dimensions and weights for Power Unit, PU-406B/M. These specifications are computed from the combined dimensions and weights of the generator set and trailer as modified for use with the power unit. Specifications of the individual components can be found in their respective technical publications. For additional information concerning Generator Set, DOD Model MEP-005A, refer to TM 5-6115-465-12 and – 34. For additional information on the M200A1 trailer, refer to TM 9-2330-205-14&P. The tabulated data also includes the location and content of all data plates unique to the power unit.

a. Identification and Instruction Hates.

(1) *Identification Plate.*

(a) *Location.* This plate is located on the front roadside frame between the trailer body and the drawbar ring.

(b) *Content.*

US  
POWER UNIT  
PU 406B/M  
KW 30  
HERTZ 50/60  
NSN 6115-00-394-9576

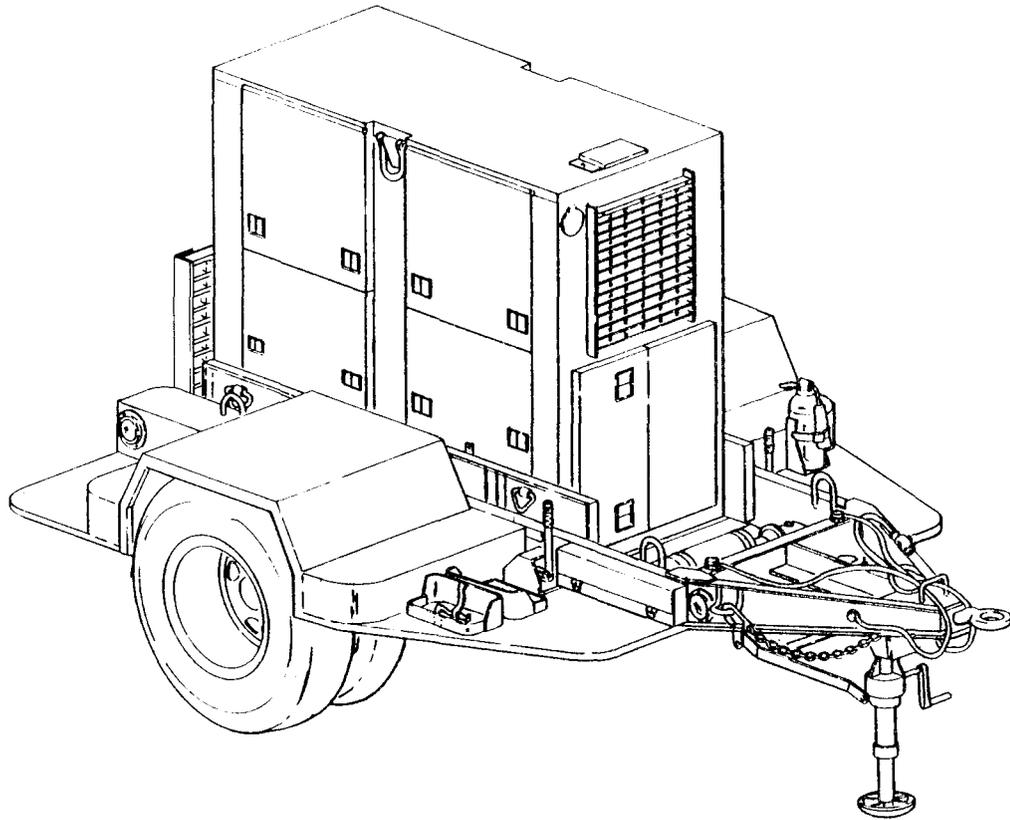


Figure 1-1. Power Unit, Curbside Front, Three-Quarter View.

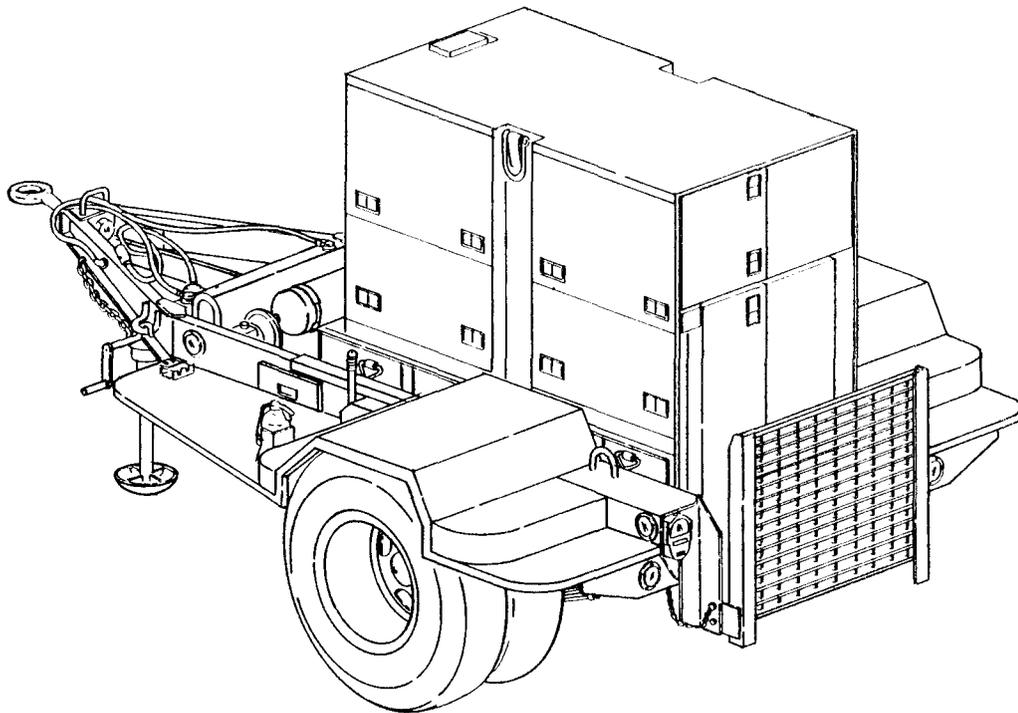


Figure 1-2. Power Unit, Roadside Rear, Three-Quarter View.

(2) *Instruction Plate*

(a) *Location.* This plate is located near the ground stud on the front, roadside corner of the trailer body.

(b) *Content.*

GROUND TERMINAL

b. Tabulated Data for Power Unit.

Overall Length	166 3/8 inches (423.6 centimeters)
Overall Width	95 1/2 inches (242.6 centimeters)
Overall Height	84 inches (213.4 centimeters)
Net Weight (empty)	5,970 pounds (2,707 kilograms)
Net Weight (filled)	6,230 pounds (2,825 kilograms)
Shipping Weight	6,180 pounds (2,802 kilograms)
Cubage	803 cubic feet (22.7 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 I. OPERATING PROCEDURES

**2-1. Operating Procedures.** Before the power unit generator can be turned on and operated, the power unit must be towed to a worksite and installed. Installation instructions are provided in paragraph 4-2. Instructions for dismantling the power unit for movement are given in paragraph 4-3. Detailed prestarting, startup, operating and shutdown procedures for the generator set can be found on the "Operating Instructions" data plate located inside the right hand control cubicle door at the rear of the power unit, and in the generator set technical manual, TM 5-6115-465-12.

#### **WARNING**

Do not operate generator set 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 generator can cause hearing damage. Ear protectors, as recommended by medical or safety officer, must be worn when working near power unit.

#### **Section II. OPERATION OF AUXILIARY EQUIPMENT**

**2-2. Operation of Auxiliary Equipment.** There is no auxiliary equipment supplied with the power unit.

#### **Section III. OPERATION UNDER UNUSUAL CONDITIONS**

**2-3. Operation Under Unusual Conditions.** When operating the power unit 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 5-6115-465-12 for special procedures when operating the generator set under unusual conditions.
- b. Refer to TM 9-2330-205-14&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 unit are listed in Table 3-1.

*Table 3-1. Consumable Operating and Maintenance Supplies.*

(1)	(2)	(3)	(4)	(5)	(6)
Component application	National stock number	Description	Qty required for initial operation	Qty required 8 hours operation	Notes
General Cleaning	6850-00-664-5685	Solvent, Drycleaning, P-D-680	1 quart	As required	
Personnel Platform	9150-00-186-6681	Oil, Lubricating, OE/HDO-30	1 quart	As required	
	9150-00-402-4478	Oil, Lubricating, OEA	1 quart	As required	

#### Section II. LUBRICATION INSTRUCTIONS

**3-2. General.** Detailed instructions for the lubrication of the major components of the power unit are contained in the applicable Lubrication Orders (LO's). Refer to DA Pam 310-1 to ensure the latest editions of the LO's are used.

**3-3. Generator Lubrication.** Refer to TM 5-6115-465-12 for generator set Lubrication Order.

**3-4. Trailer Lubrication.** There are no operator/crew lubrication requirements for the power unit trailer.

#### 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, and 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. Routine Inspections. 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 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. Leakage Definitions.* 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 II) 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 - Before

D - During

A - After

W - Weekly

M - Monthly

Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
						<p style="text-align: center;"><b><u>WARNING</u></b></p> <p>Before performing any maintenance that requires climbing on or under trailer, set trailer hand-brakes, chock wheels, and lower rear leveling jacks. Injury to personnel could result from trailer suddenly rolling or tipping.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Perform weekly as well as before PMCS if You are the assigned operator but have not operated the equipment since the last weekly inspection.</p>	

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

B – Before                      D – During                      A – After                      W – Weekly                      M – Monthly

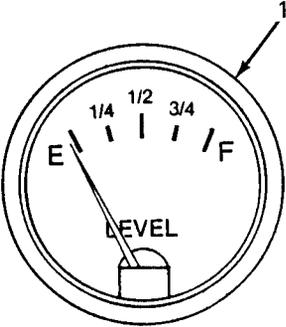
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
1	●					<p style="text-align: center;"><b>NOTE</b></p> <p>Perform weekly as well as before PMCS if you are operating the equipment for the first time.</p> <p><b>GENERATOR SET EXTERIOR</b></p> <p>a. Check on, around, and beneath generator set for fuel or oil and coolant leaks.</p> <p>b. Check that generator set ground is properly installed and grounding connections are tight.</p> <p>c. Manually open and close radiator louver doors to check for proper operation.</p>	<p>A Class III coolant or lubrication oil leak or any class fuel leak is detected.</p> <p>Not properly grounded.</p>
2	●	●	●			<p><b>FUEL GAGE</b></p> <p>Check fuel gage (1) for sufficient fuel for continuous operation.</p> <div style="text-align: center;">  <p>FUEL LEVEL</p> </div>	

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

B – Before                      D – During                      A – After                      W – Weekly                      M – Monthly

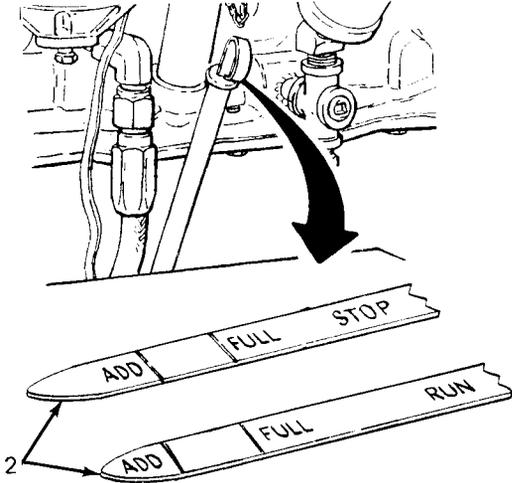
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
3	●					<p><b>ENGINE OIL LEVEL</b></p> <p>Check oil filler dipstick (2) for proper oil level. Add oil as required.</p> 	
4	●					<p><b>ACCESSORIES</b></p> <p>Check that the following accessories are not missing.</p> <ol style="list-style-type: none"> <li>Sledge hammer</li> <li>Fire extinguisher</li> <li>Driver/puller</li> <li>Ground rods</li> </ol>	<p>Fire extinguisher is missing.</p> <p>Ground rods are missing.</p>
5	●					<p><b>BRACKETS</b></p> <p>Check fire extinguisher and fuel can mounting brackets for loose hardware and broken fittings.</p>	

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

B – Before                      D – During                      A – After                      W – Weekly                      M – Monthly

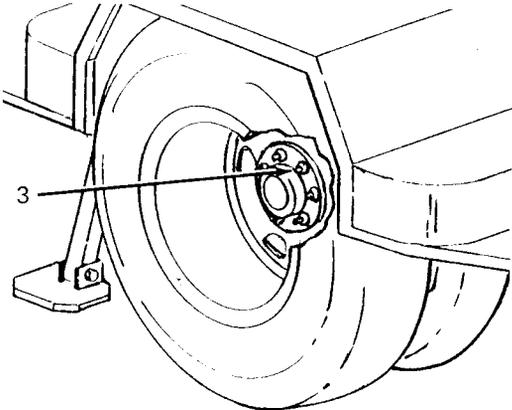
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
6	●					<p><b>TIRES</b></p> <p>a. Check for cuts, foreign objects or unusual tread wear. Remove any stones from between the treads.</p> <p>b. Check that tire pressure is 35 psi (241.22 kPa) when tires are cool.</p>	One tire is flat, missing or unserviceable.
7	●					<p><b>WHEELS</b></p> <p>Check for wheel damage and for loose or missing stud nuts (3).</p> 	One wheel is damaged. One stud nut is loose or missing.
8	●					<p><b>LUNETTE</b></p> <p>Check lunette (4) for insecure mounting and obvious damage.</p>	Lunette is loose or bent.
9	●					<p><b>INTERVEHICULAR CABLE</b></p> <p>Check cable (5) and connector for cuts and breaks.</p>	Intervehicular cable is broken or missing.

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

B – Before

D – During

A – After

W – Weekly

M – Monthly

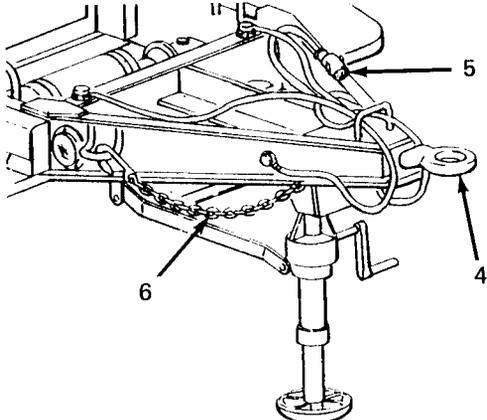
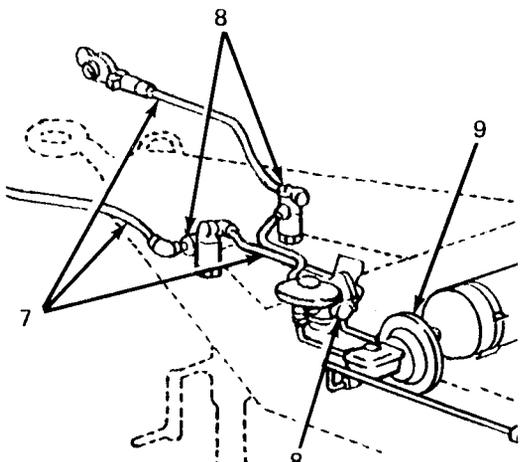
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
10	●					<p><b>SAFETY CHAINS</b></p> <p>Check safety chains (6) for insecure mounting and obvious damage.</p> 	<p>Safety chains are missing or unsecured.</p>
11	●					<p><b>AIR HOSES, FITTINGS AND BRAKE AIR CHAMBER</b></p> <p>Check air hoses (7), fittings (8) and brake air chamber (9) for signs of damage or leaks.</p> 	<p>Damage or leaks are detected.</p>

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

B – Before                      D – During                      A – After                      W – Weekly                      M – Monthly

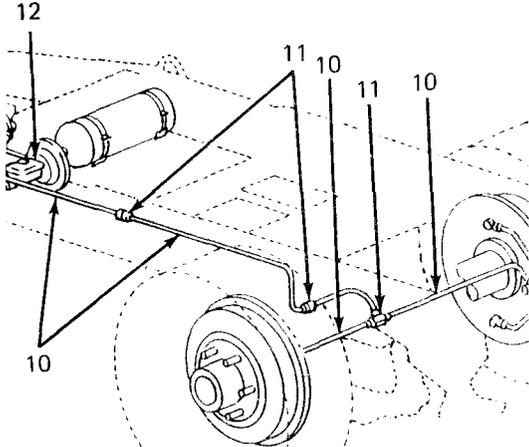
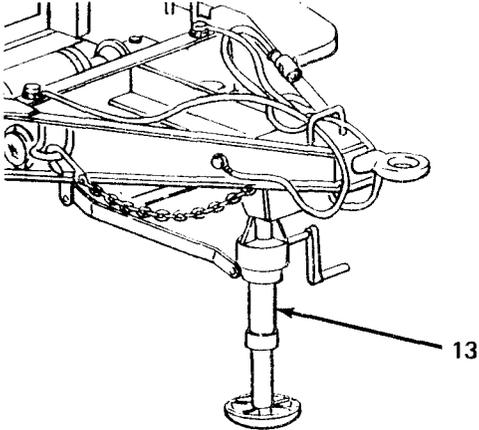
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
12	●					<p><b>HYDRAULIC HOSES, FITTINGS AND MASTER CYLINDER</b></p> <p>Check brake system hoses (10) and fittings (11) and master cylinder (12), and check under vehicle for signs of brake fluid leaks.</p> 	A class III brake fluid leak is detected.
13		●				<p><b>LANDING LEG</b></p> <p>Check condition of landing leg (13).</p> 	There is indication that leg might collapse.

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

B – Before                      D - During                      A – After                      W – Weekly                      M – Monthly

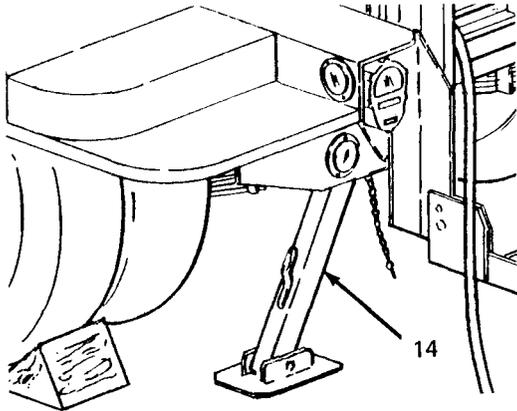
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
14		●				<p>LEVELING JACK</p> <p>Check condition of leveling jack (14).</p> 	There is indication that a jack might collapse.
15	●	●				<p>LIGHTS</p> <p>a. With intervehicular cable connected to towing vehicle, operate vehicle light switch through all settings and check lights (15).</p> <p style="text-align: center;">NOTE</p> <p style="text-align: center;">An assistant is required while checking brake lights.</p> <p>b. Step on brake pedal and check brake lights (15).</p>	

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

B – Before                      D – During                      A – After                      W – Weekly                      M – Monthly

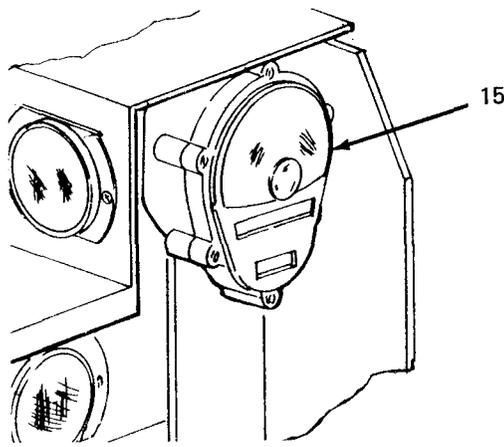
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
15		●				<p>LIGHTS – CONT</p> 	
16		●				<p><b>BRAKE SYSTEM</b></p> <p>Test brake system by hooking trailer to towing vehicle and applying brakes.</p>	Service brakes fail to operate.
17		●				<p><b>TRAILER OPERATION</b></p> <p>a. Be alert for any unusual noises while towing trailer. Stop and investigate any unusual noises.</p> <p>b. Ensure that trailer is tracking/following correctly behind towing vehicle with no side pull.</p>	
18		●				<p><b>GENERATOR SET GAGES AND INSTRUMENTS</b></p> <p>a. Check that air cleaner condition indicator (16) does not indicate a clogged air cleaner. Press-to-test.</p> <p>b. Check that battery charging ammeter (17) is in green area during normal operation.</p>	<p>Light remains on during operation.</p> <p>Battery indicator not in green area.</p>



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

B – Before                      D – During                      A – After                      W – Weekly                      M – Monthly

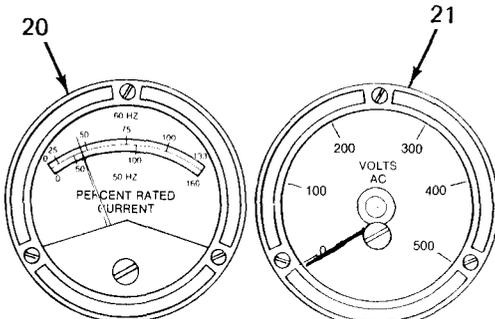
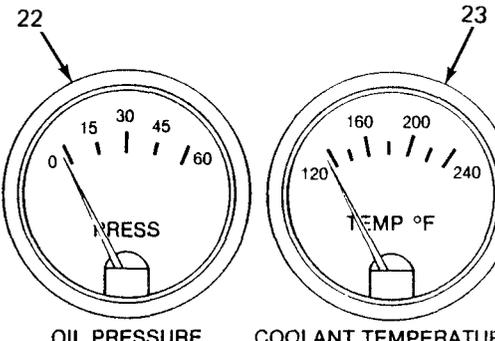
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
18		●				<p><b>GENERATOR SET GAGES AND INSTRUMENTS – CONT</b></p> <p>f. Check that A.C. voltmeter (21) indicates desired output voltage as determined by load connections and amps-volts selector switch.</p>  <p>g. Check engine oil pressure gage (22) for 30 to 55 psig indication.</p> <p>h. Check coolant temperature gage (23) for 170° to 200°F (76.7° to 93.3°C) indication.</p> 	<p>Desired voltage cannot be obtained and maintained.</p> <p>Oil pressure drops below 30 psig.</p> <p>Temperature exceeds 200°F (93.3°C).</p>

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

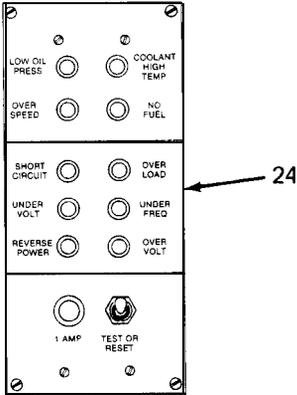
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
18		●				<p>GENERATOR SET GAGES AND INSTRUMENTS – CONT</p> <p>i. Check that all lights on fault indicator panel (24) are out during operation. Check bulb operation with TEST or RESET switch on panel.</p> 	<p>Fault light will not go out when switch is set to TEST or RESET position, then released. All bulbs should be lit when switch is in TEST or RESET position.</p>
19			●			<p>FUEL TANK</p> <p>a. Fill tank (25) upon completion of operation.</p> <p style="text-align: center;">NOTE</p> <p>Fuel system temperature must be above freezing when draining water and sediment.</p> <p>b. Open drain (26) and drain water and sediment from fuel tank. Allow to drain until fuel runs clean.</p>	

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

B – Before

D – During

A – After

W – Weekly

M – Monthly

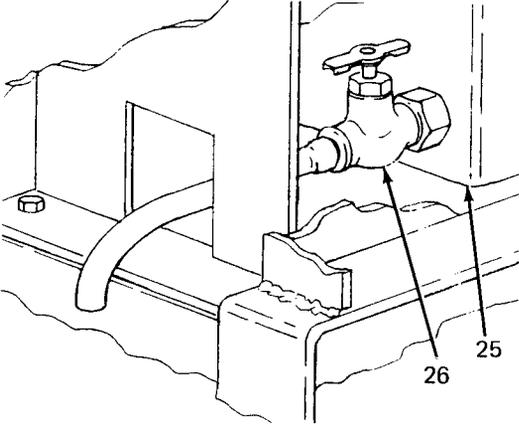
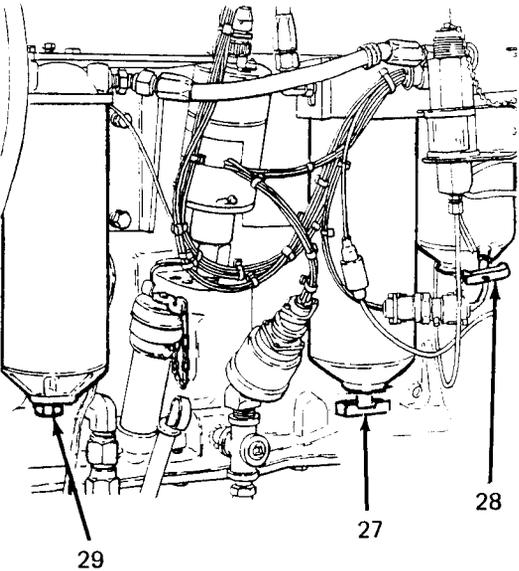
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
19			●			<p>FUEL TANK – CONT</p> 	
20			●			<p>FUEL STRAINER AND FILTERS</p> <p>Drain water and sediment from strainer (27), primary (28) and secondary (29) filters. Allow to drain until fuel runs clean.</p> 	

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

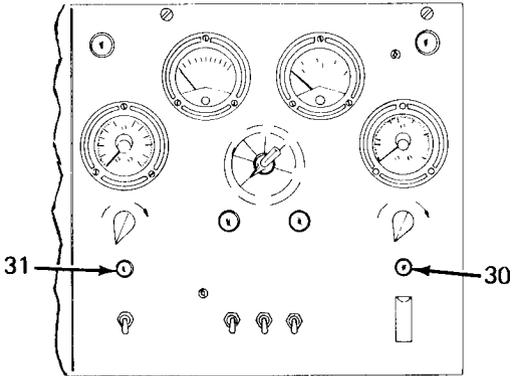
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
21			●			<p><b>BATTLE SHORT INDICATOR LIGHT</b></p> <p>Push in on lens housing. Light (30) should illuminate. If not, replace bulb.</p>	
22			●			<p><b>CIRCUIT BREAKER INDICATOR LIGHT</b></p> <p>Push in on lens housing. Light (31) should illuminate. If not, replace bulb.</p> 	
23			●			<p><b>BRAKE DRUMS AND HUBS</b></p> <p><b><u>WARNING</u></b></p> <p>A defect in the operation of the brake or hub can cause these parts to get hot enough to cause serious burns. Use extreme caution when attempting to detect heat in this area.</p> <p>Feel drums and hubs for overheating to detect dragging or binding.</p>	
24			●			<p><b>AIR RESERVOIR</b></p> <p>Open draincock (32) to drain moisture from air reservoir (33) and close when finished.</p>	

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

B – Before

D – During

A – After

W - Weekly

M - Monthly

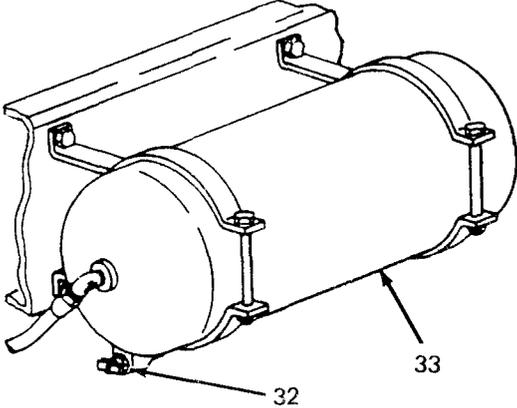
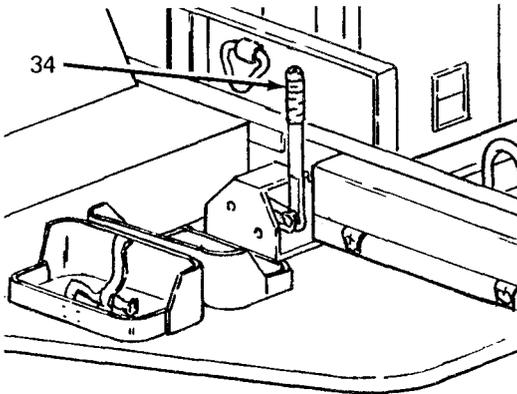
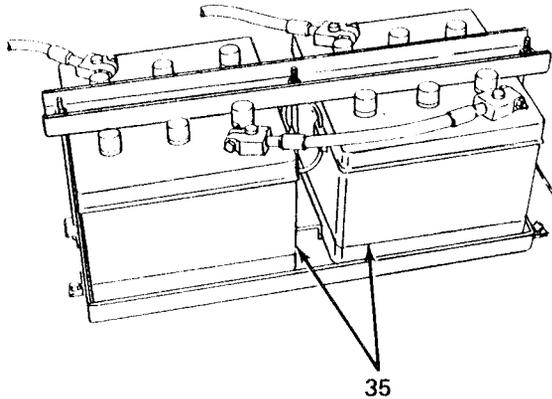
Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
24			●			<p>AIR RESERVOIR – CONT</p> 	
25			●			<p>HANDBRAKES</p> <p>With trailer hooked to towing vehicle, set handbrakes (34). Move trailer slightly to see if handbrakes hold wheels. Adjust as required.</p> 	Handbrakes cannot be adjusted.

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

B – Before                      D – During                      A – After                      W – Weekly                      M - Monthly

Item no.	Interval					Item to be inspected. Procedure: check for and have repaired, filled, or adjusted as needed	Equipment is not ready/available if:
	B	D	A	W	M		
26				●		REFLECTORS	
						Check for damaged or missing reflectors.	
27				●		BATTERIES	
						Check battery (35) electrolyte level. Level should be about 3/4 inch above top of plates. Add water if level is low. Use clean water (distilled water if available).	
							
28				●		FIRE EXTINGUISHER	
						Inspect and weigh fire extinguisher. (See paragraph 3-11.)	
29				●		TRAILER FRAME	
						Inspect entire chassis frame for damage, cracks, and broken welds.	Frame is obviously broken or cracked.

## Section IV. TROUBLESHOOTING

**3-10. Power Unit Troubleshooting.** There are no troubleshooting procedures authorized at operator level for the power unit end item. Troubleshooting procedures for the individual generator set and trailer are contained in their respective technical manuals referenced below.

a. Generator Set Troubleshooting. Refer to TM 5-6115-465-12 for troubleshooting procedures applicable to the generator set.

b. Trailer Troubleshooting. Refer to TM 9-2330-205-14&P for troubleshooting procedures applicable to the trailer.

## Section V. OPERATOR/CREW MAINTENANCE

**3-11. Fire Extinguisher Maintenance.**

### CAUTION

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

The PU-406B/M Power Unit is equipped with a 5 lb CO<sub>2</sub> fire extinguisher. Maintenance is limited to weighing the fire extinguisher monthly to insure that it is sufficiently charged. Fully charged, the fire extinguisher weighs 13 lbs. Send the unit to specialized activity for recharging if it weighs 12.5 lb or less.



## CHAPTER 4

### UNIT MAINTENANCE

#### Section I. SERVICE UPON RECEIPT OF EQUIPMENT

**4-1. Inspecting and Servicing Equipment.** The power unit is 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 instructions in DA Pam 738-750.

*a. Unpacking Power Unit.* (See figures 4-1 and 4-2.) The generator set is packed in place on the trailer frame. Before beginning the unpacking procedure, locate, remove, and save the waterproof envelopes marked Depreservation Guide.

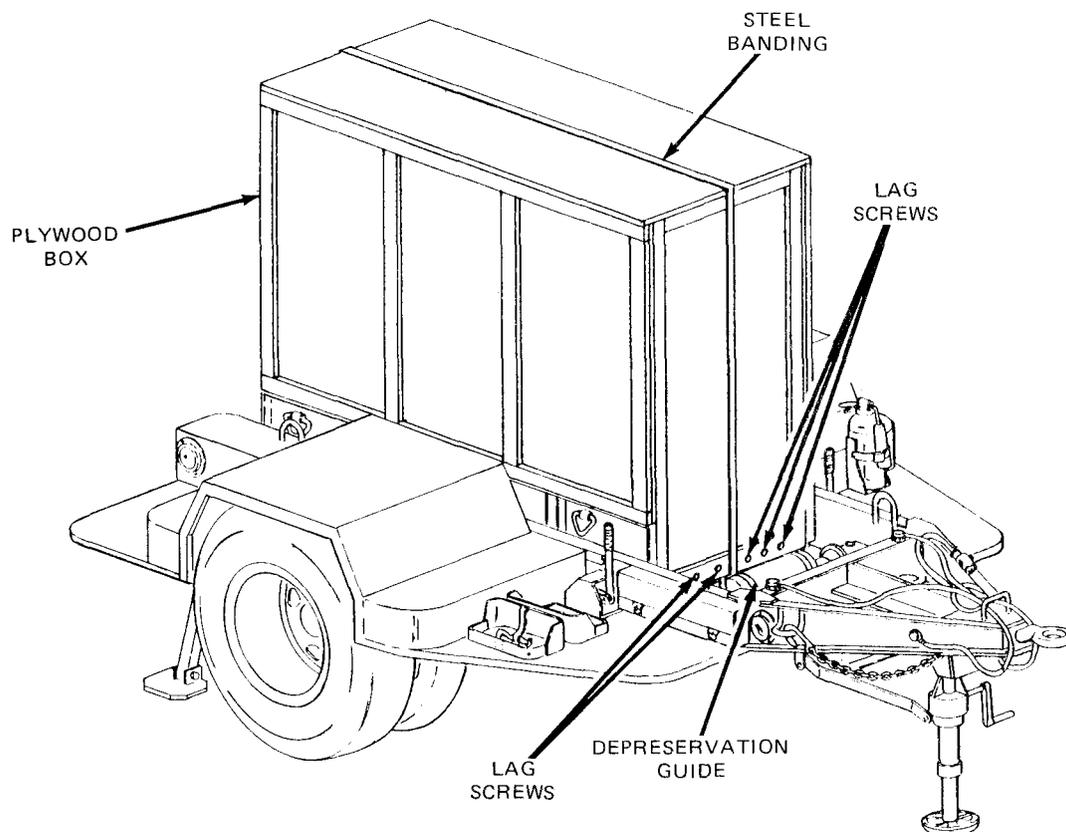


Figure 4-1. Power Unit Packed for Shipment.

**WARNING**

The steel banding used in packaging of power unit has sharp edges. Care should be taken when cutting and handling banding to avoid injury to personnel.

- (1) Remove steel banding around plywood box covering generator set.
- (2) Remove lag screws securing plywood box cover over generator set and lift cover off generator.
- (3) Remove wooden wedges and spacers from around generator set base.
- (4) Remove and save package of technical manuals secured to barrier material covering generator.
- (5) Remove four sets of attaching hardware and drop plywood cover from beneath generator set.
- (6) Remove barrier material and fiberboard caps from generator set.
- (7) Remove packaged fire extinguisher from within generator set enclosure. Unpack and secure fire extinguisher in bracket on front roadside step.
- (8) Remove steel banding around accessory box, unpack, and inventory contents.
- (9) Refer to DA Form 2258, Depreservation Guide for Vehicles and Equipment, packed with power unit and follow instructions given for putting unit in service.
- (10) Stow technical manuals in box on inside of generator set enclosure rear curbside door.
- (11) Stow all authorized accessories in accessory box.

*b. Inspection and Servicing of Generator Set.* Refer to Servicing Upon Receipt of Materiel in TM 5-6115-465-12 for initial inspection and servicing procedures.

*c. Inspection and Servicing of Trailer.* Refer to Servicing Upon Receipt of Materiel in TM 9-2330-205-14&P for initial inspection and servicing procedures.

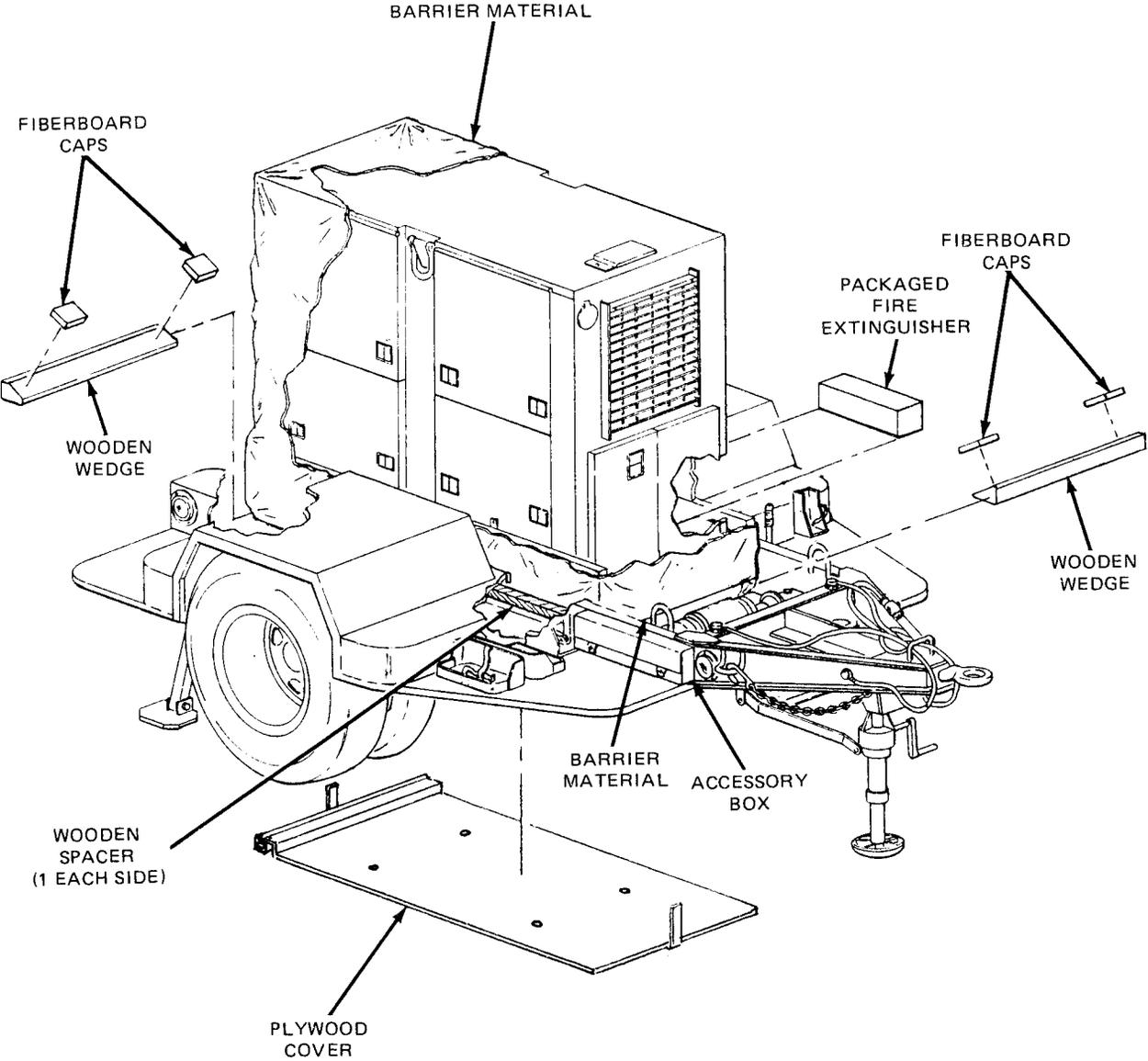


Figure 4-2. Unpacking Power Unit

4-2. Installation. (See figure 4-3.) Installation of the power unit at a worksite involves positioning the trailer and grounding the power unit.

a. Positioning Power Unit. Position the power unit on the worksite as follows:

- (1) Select an area as level as possible to install power unit and position trailer.
- (2) Set trailer handbrakes and lower trailer landing leg.
- (3) Chock both sets of wheels.
- (4) Lower both rear leveling jacks, secure leveling jacks with lockpins, and extend lower tubes by stepping on hinged pads.

**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 unit.

**WARNING**

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

**CAUTION**

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

- (6) Connect power unit to system or equipment to be powered. Refer to TM 5-6115-465-12 and generator set load terminal board data plate. Data plate is located on inside of generator enclosure door near load terminals.
- (7) Remove two platform anchor quick-release pins and lower personnel platform.
- (8) Close all doors on generator set enclosure except control panel doors and the two doors immediately below the control panel.

b. Grounding. Check that generator set is grounded to GROUND TERMINAL stud on trailer frame. Using ground wire supplied with power unit, connect power unit GROUND TERMINAL 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 may be used.

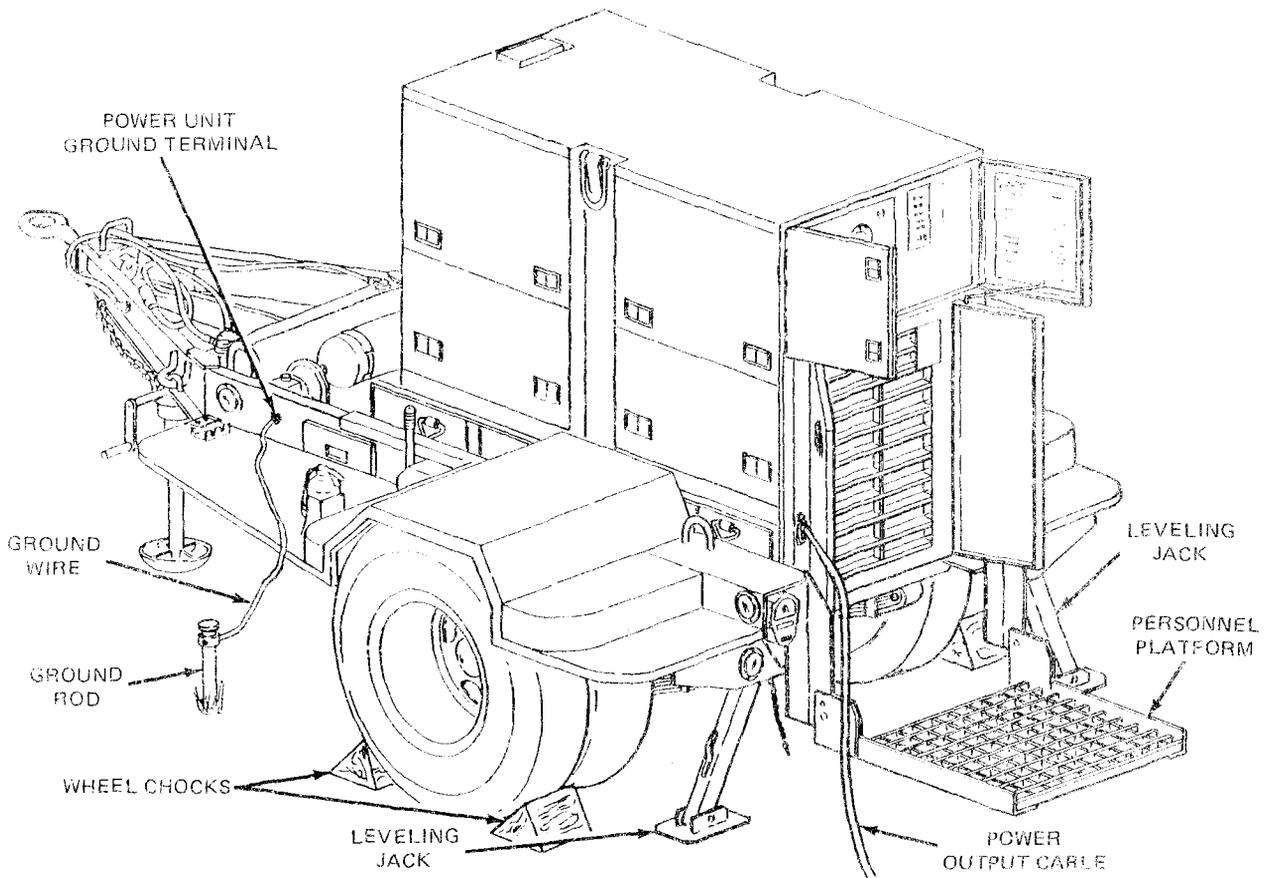


Figure 4-3. Installing Power Unit

- (1) Underground water system. Ground power unit 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 the earth,

**NOTE**

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

- (2) Ground rod. Drive ground rod a minimum of eight feet into earth. A ground rod must have a minimum diameter of 5/8-inch, if solid, or 3/4-inch if pipe.
- (3) Ground plate. Ground power unit to a metal plate buried four feet deep. Ground plate should cover a minimum area of nine square feet.

c. External Fuel Line Connection. The power unit generator set 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 the generator's fuel tank during long intervals of operation.

- (1) Remove fuel can adapter and fuel pickup tube from storage locations on power unit 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 next to the fuel filler above the trailer roadside fender.
- (4) Insert fuel can adapter in external fuel source and secure by pressing down on lever.
- (5) Set FUEL SELECTOR VALVE beneath fuel filler, to AUXILIARY position.

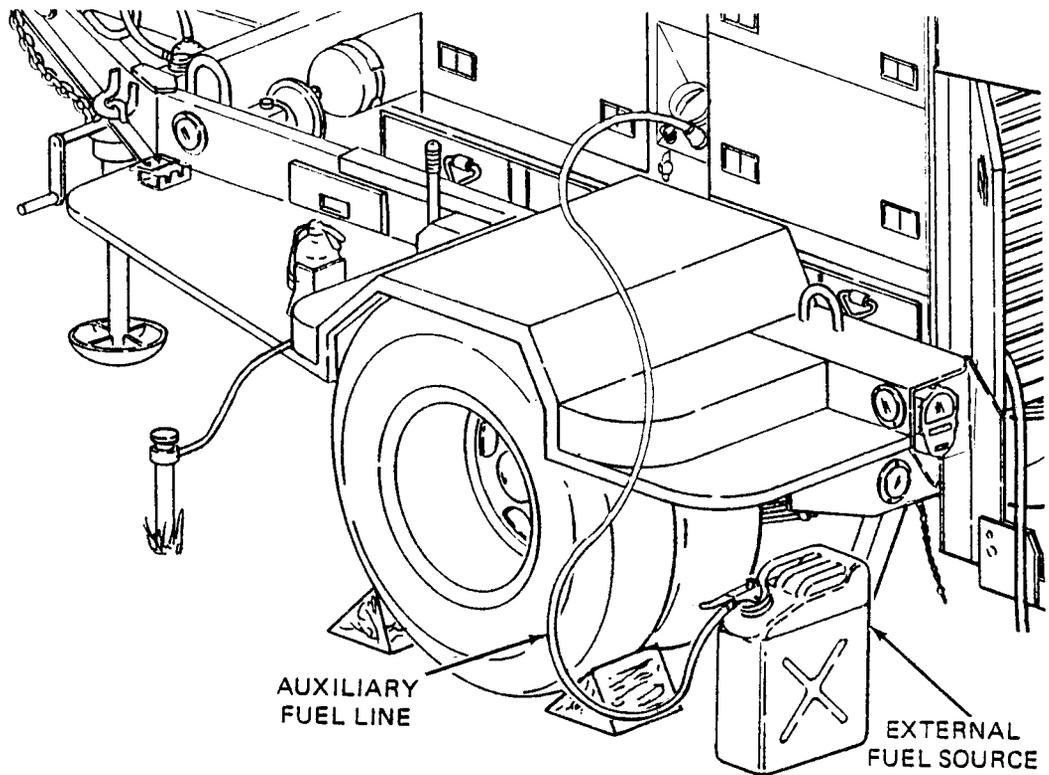


Figure 4-4. External Fuel Line Connection.

## Section II. MOVEMENT TO A NEW WORKSITE

**4-3. Dismantling for Movement.** Because the power unit 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 unit from system or equipment being powered.
- b. Disconnect ground cable from source of ground and from power unit GROUND TERMINAL. 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 unit from external fuel source, if applicable.

- e. Stow any remaining authorized equipment in accessory box.
- f. Secure fire extinguisher and fuel cans in their respective mounting brackets.
- g. Close all doors on the generator set enclosure.
- h. Swing personnel platform up into traveling position and secure with two platform anchor quick-release pins.

**WARNING**

Use care when releasing spring-loaded lower tube of leveling jacks. The lower tube will return to retracted position with considerable force and can cause injury.

- i. Retract lower tubes of leveling jacks. Swing leveling jacks up into traveling position and secure with lockpins.
- j. Remove wheel chocks.
- k. Attach power unit to towing vehicle. Refer to TM 9-2330-205-14&P.
- l. Release trailer handbrakes.

**4-4. Reinstallation After Movement.** After movement to a new worksite, install power unit 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 PU-406B/M power unit.

**4-6. Maintenance Repair Parts.** Repair parts and equipment for maintenance of this power unit 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 unit are contained in the applicable Lubrication Orders (LO's). Refer to DA Pam 310-1 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.

**4-8. Generator Lubrication.** Refer to TM 5-6115-465-12 for generator set Lubrication Order.

**4-9. Trailer Assembly Lubrication.**

- a. Trailer Lubrication. Refer to TM 9-2330-205-14&P for trailer Lubrication Order.

b. Personnel/ Platform Lubrication. The personnel platform is a modification to the standard M200A1 trailer and, as such, does not appear in the associated L.O. Lubricate the personnel platform semiannually 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 use near open flame or excessive heat. Flash point of solvent is 100°F. to 138°F. (38°C. to 59°C.).

- (1) Using P-D-680, or equivalent, clean area to be lubricated.
- (2) Apply OE lubricating oil to personnel platform pivot points and to platform anchor quick-release pins.

**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 set must be inspected and serviced systematically to insure that the power unit is ready for operation at all times. Inspection will allow defects to be discovered and corrected before they result in serious damage or failure. 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 set is 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.
- e. 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.

**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) Using P-D-680, or equivalent, clean area to be lubricated.
- (2) Apply OE lubricating oil to personnel platform pivot points and to platform anchor quick-release pins.

**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 assemblies 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 failure. 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 trailers is scheduled to be performed semiannually. Unit PMCS on the generator sets is scheduled weekly or on a per-hours-of-operation basis. The running time meters on the control panels are used to determine the operating time of the generator sets. 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.
- e. Do your annual (A) PMCS once every year.
- 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 checks and services are to be done, 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.* 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 services 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).

H – Hours of operation (As indicated)      W – Weekly (40 hours)      M – Monthly (100 hours)      S – Semiannually (500 hours)      A – Annually (1,000 hours)

Item No.	Interval					Item to be Inspected	Procedures
	H	W	M	S	A		
1		•				Hydraulic Sump	<p style="text-align: center;"><b>WARNING</b></p> <p>Before performing any maintenance that requires climbing on or under trailer, set trailer, handbrakes, chock wheels and lower rear leveling jacks. Injury to personnel could result from trailer suddenly rolling or tipping.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>This PMC table lists the checks and services as performed on a single power unit. These procedures must be duplicated on each of the two power units that make up the AN/MJQ-15.</p> <p>Check the fluid level. Add fluid as required.</p>
2			•			Generator Set Exterior	<p>Inspect generator set for fuel and oil leaks, loose or missing components and hardware, and unusual wear or deterioration. Clean generator set.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>Fuel system must be above freezing; temperature when draining water and sediment from strainer, filters and tank.</p>

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

H – Hours of operation (As indicated)      W - Weekly (40 hours)      M – Monthly (100 hours)      S – Semiannually (500 hours)      A - Annually (1,000 hours)

Item No.	Interval					Item to be Inspected	Procedures
	H	W	M	S	A		
3			•			Fuel Strainer and Filters	Open drains on fuel strainer and primary and secondary fuel filters. Drain water and sediment. Allow to drain until fuel runs clean.
4			•			Fuel Tanks	Open drains on main fuel tank and day tank. Drain water and sediment. Allow to drain until fuel runs clean.
5				•		Fuel Pumps	Clean or replace, as necessary, fuel strainer in bottom of fuel pump.
6	100					Batteries	Perform a hydrometer test on batteries every 100 hours. Refer to TM 5-6115-464-12 for test procedures.
7	100					V-Belt	Inspect for worn, frayed, cracked or oil-soaked belt. Check adjustment. If necessary, adjust for a 1/2-inch deflection when belt is depressed at a point midway between alternator and water pump pulley.
8	100					Fuel Filters	Replace filter elements every 100 hours of operation.
9	300					Fuel Strainer	Clean fuel strainer every 300 hours of operation.
10	300					Lubricating Oil and Filters	Change lubricating oil and filters every 300 hours of operation or six months.
11	300					Breather and Breather Tube	Inspect for damage. Clean breather and tube at oil change interval,
12	500					Hydraulic Sump	Drain and refill (para 3-97, TM 5-6115-464-12)
13	500					Hydraulic Filter	Replace filter (para 3-97, TM 5-6115-464-12)
14	500					Hydraulic Actuator	Clean filter (para 3-98, TM 5-6115-464-12)

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

H – Hours of operation (As indicated)      W – Weekly (40 hours)      M – Monthly (100 hours)      S – Semiannually (500 hours)      A – Annually (1,000 hours)

Item No.	Interval					Item to be Inspected	Procedures
	H	W	M	S	A		
15						Air Cleaner	Clean air cleaner element whenever necessary as indicated by air filter condition indicator light.
16				●		Taillights	Replace any broken or cracked lenses or defective bulbs.
17				●		Intervehicular Cable	Check for cuts, breaks, frayed wires and damaged plug.
18				●		Lunette	Check security of mounting. Inspect for excessive wear.
19				●		Safety Chains	Inspect for broken links or missing chain(s).
20				●		Reflectors	Replace any cracked, broken or missing reflectors.
21				●		Data Plates and Markings	Make sure data plates are legible and securely mounted. Replace illegible data plates.
22				●		Landing Leg	Inspect landing leg and brace for bent or broken parts.
23				●		Leveling Jacks	Inspect leveling jacks for bent or broken parts.
24				●		Suspension Assemblies	a. Inspect shackles, bearings, pins, leaf springs and spring eyes for damage and broken parts.  b. Inspect mounting brackets for cracks or loose or missing hardware.
25				•		Axle	a. Check for damaged axle tube.  b. Check for loose or missing U-bolts or nuts.
26				•		Wheels and Tires	a. Check serviceability of tires as indicated in TM 9-2610-200-24.  b. Tighten wheel stud nuts to 460 to 500 ft-lb (611 to 678 N-m).

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

H – Hours of operation (As indicated)      W – Weekly (40 hours)      M – Monthly (100 hours)      S – Semiannually (500 hours)      A – Annually (1,000 hours)

Item No.	Interval					Item to be Inspected	Procedures
	H	W	M	S	A		
27				•		Brakes	a. Inspect brake linings for wear. Replace if brake shoe lining is less than 1/8-inch (3.2 mm) thick. b. Inspect brake adjusting screw, retaining pins, springs, and clips for corrosion and wear. c. Inspect hydraulic wheel cylinders for leaks. d. Adjust brakes.
28					•	Wheel Bearings	Clean and repack wheel bearings.
29				•		Hydraulic Brake Hoses and Fittings	Inspect for dents, cracks, loose connections and leaks.
30				•		Air Hoses and Fittings	Inspect for dents, cracks, loose connections and leaks.
31				•		Brake Master Cylinder	Check fluid level. Fill to 1/2 inch from top.
32				•		Trailer Road Test	Perform road test paying special attention to items that were repaired or adjusted, in accordance with TM 9-2330-205-14&P.

## Section VI. TROUBLESHOOTING

**4-13. General.** 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 trailers are contained in their respective manuals referenced below:

*a. Generator Set Troubleshooting.* Refer to TM 5-6115-464-12 for troubleshooting procedures applicable to the generator set.

*b. Trailer Troubleshooting.* Refer to TM 9-2330-205-14&P for troubleshooting procedures applicable to the trailers.

**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.

*Table 4-2. Troubleshooting.*

---

Malfunction	Test or inspection	Corrective action
<hr/>		
1. POWER IS ABSENT AT SWITCH BOX LOAD TERMINAL(S) WHEN ONE PARTICULAR POWER UNIT IS SELECTED.		
	Step 1. Check if associated generator set circuit breaker is set to ON position.	If circuit breaker is in OFF position, reset to ON position.
	Step 2. Verify associated generator set output is as desired. Check generator output at load terminals.	If power is absent at generator set load terminals, troubleshoot generator set. (Refer to TM 5-6115-464-12.)
	Step 3. Perform continuity check on associated power unit power cable.	If cable is defective, notify higher level of maintenance.
	Step 4. Perform continuity check on associated switchbox connector.	If connector is defective, notify higher level of maintenance.
	Step 5. Perform continuity check on associated switch.	If switch is defective, notify higher level of maintenance.

\*U.S. Government Printing Office: 1989-654-030/00368

PIN: 064446 001

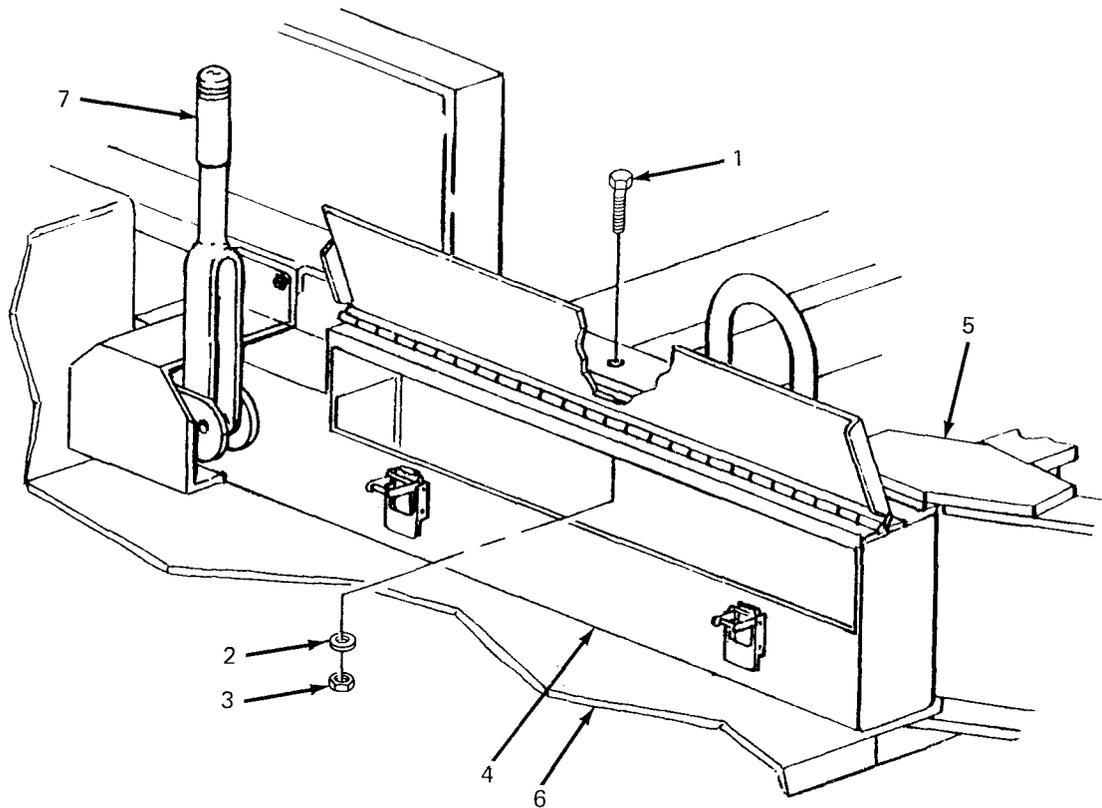


Figure 4-6. Accessory Box Replacement.

**4-19. Fire Extinguisher Bracket Replacement.** (See figure 4-7.) The fire extinguisher supplied with the power unit is carried in a bracket mounted on the trailer front roadside step.

*a. Removal.*

- (1) Remove four screws (1, figure 4-7) four flat washers (2), and four nuts (3) securing bracket (4) to step (5).
- (2) Remove bracket (4) from step (5).

*b. Installation.*

- (1) Position fire extinguisher bracket (4) on step (5).
- (2) Insert four screws (1) down through bracket (4) and through step (5).
- (3) Install one washer (2) and one nut (3) on each screw (1). Tighten hardware to secure bracket (4).

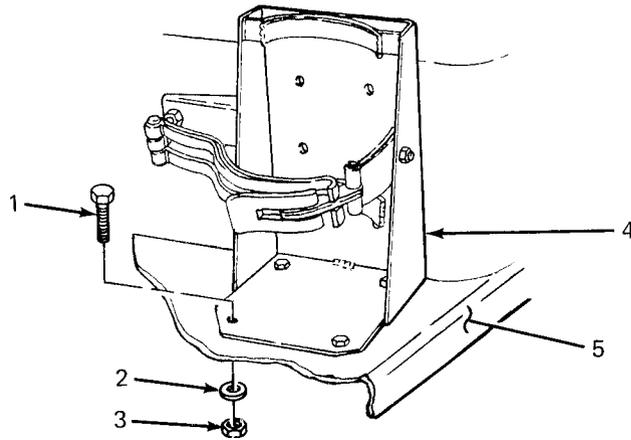


Figure 4-7. Fire Extinguisher Bracket Replacement.

**4-20. Front Steps Replacement.** (See figure 4-8.) The roadside and curbside front steps are symmetrical, and replacement procedures are the same except where noted in the steps below.

a. Removal.

**NOTE**

When removing roadside front step, omit steps (1) and (2).

- (1) Remove fuel can brackets (paragraph 4-17, a).
- (2) Remove accessory box (paragraph 4-18, a).
- (3) Remove cotter pin (1, figure 4-8) and clevis pin (2) securing handbrake cable (3) to handbrake lever mechanism (4).
- (4) Remove two screws (5), two flat washers (6) and two nuts (7) securing handbrake bracket (8) to trailer frame (9).
- (5) Remove two screws (10), two flat washers (11) and two nuts (12) securing handbrake cable bracket (13) to front step (14).

**NOTE**

There are two screws, flat washers, and nuts securing handbrake bracket to front step. It is only necessary to remove one set of attaching hardware to remove front step from trailer frame.

- (6) Remove screw (15), flat washer (16), lockwasher(17) and nut (18) directly beneath pivot point of handbrake lever (4).
- (7) Remove seven screws (19), 14 flat washers (20) and seven nuts (21) securing front step (14) to front edge of fender (22).
- (8) Remove four screws (23, 24 and 25), eight flat washers (26) and four nuts (27) securing front step (14) to edge of trailer frame (9).

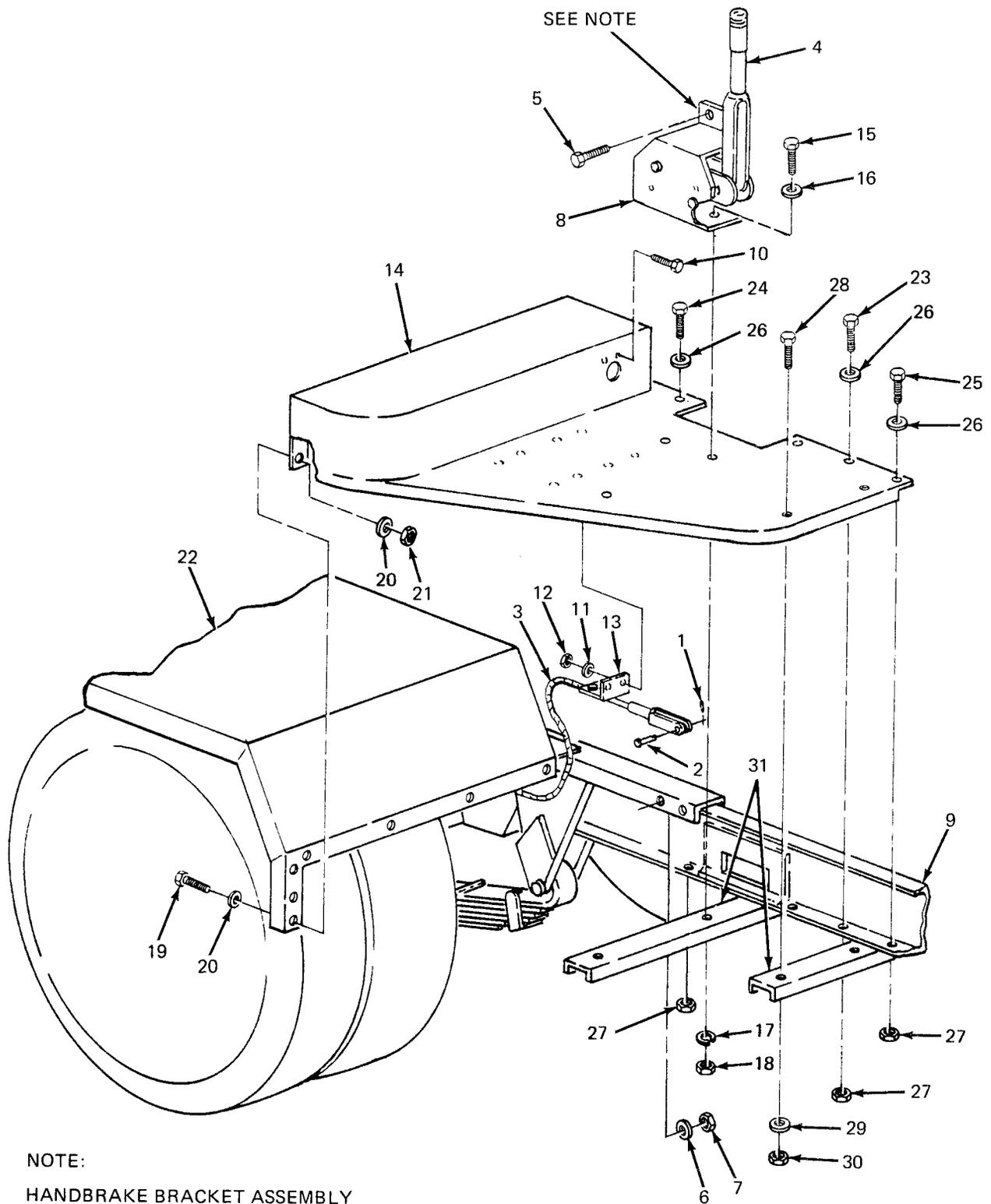


Figure 4-8. Front Steps Replacement.

- (9) Remove three screws (28), three flat washers (29) and three nuts (30) securing front step (14) to trailer cross braces (31) and remove front step.

b. Installation.

**NOTE**

Three different size screws are used to mount the front step. Screws with index numbers (5), (10), (18) and (23) in figure 4-8 are one inch long. Screw with index number (24) is 1-1/4 inch long. Screws with index numbers (15), (22) and (27) are 1-3/4 inch long. Observe lengths and locations when installing hardware.

- (1) Position front step (14) on cross braces (31) and trailer frame (9). Insert clevis on handbrake cable (3) through hole in front step (14).
- (2) Insert four screws (23, 24 and 25) with flat washers (26) through front step (14) and trailer frame (9).
- (3) Insert three screws (28) with flat washers (29) through front step (14) and trailer cross braces (31).
- (4) Working under step, install one nut (30) on each screw (28) securing front step (14) to cross braces (31), and install one flat washer (26) and one nut (27) on each screw (23, 24 and 25) securing step to trailer frame (9). Tighten seven sets of hardware.
- (5) Secure front step (14) to fender (22) with seven screws (19), 14 flat washers (20) and seven nuts (21).
- (6) Insert screw (15) with flat washer (16) through handbrake bracket (8), front step (14) and cross brace (31). Install lockwasher (17) and nut (18) on screw from underneath and tighten.
- (7) Insert two screws (5) with flat washers (6) through handbrake bracket (8) and trailer frame (9). Install one nut (7) on each screw and tighten.
- (8) Insert two screws (10) through front step (14) and handbrake cable bracket (13). Install one flat washer (11) and one nut (12) on each screw and tighten.
- (9) Position clevis on handbrake cable (3) on handbrake lever mechanism (4). Insert clevis pin (2) and secure with cotter pin (1).

**NOTE**

When installing roadside front step, omit steps 10) and (11).

- (10) Install accessory box (paragraph 4-18, b).
- (11) Install fuel can brackets (paragraph 4-17, b).

**4-21. Rear Steps Replacement.** (See figure 4-9.) The roadside and curbside rear steps are symmetrical, and replacement procedures are the same for each.

**a. Removal.**

- (1) Remove two screws (1, figure 4-9), two flat washers (2) and two nuts (3) securing rear step bracket (4) and platform anchor (5) to trailer frame (6) under taillight (7).

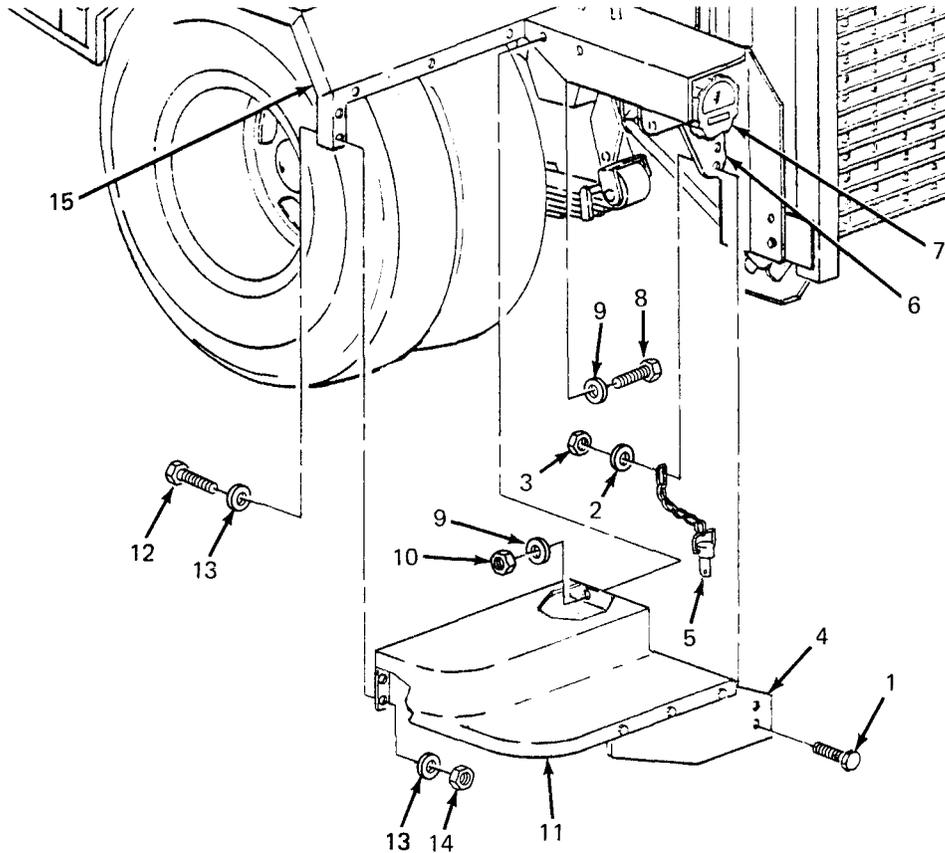


Figure 4-9. Rear Steps Replacement.

- (2) Remove two screws (8), four flat washers (9) and two nuts (10) securing rear step (11) to trailer frame (6).
- (3) Remove five screws (12), ten flat washers (13) and five nuts (14) securing rear step (11) to fender (15). Remove rear step from trailer.

**b. Installation.**

- (1) Position rear step (11) on trailer frame (6).
- (2) Secure rear step (11) to trailer frame (6) with two screws (8), four flat washers (9) and two nuts (10).
- (3) Secure rear step (11) to fender (15) with five screws (12), ten flat washers (13) and five nuts (14).

- (4) Align two mounting holes in rear step bracket (4) with holes in trailer frame (6) under taillight (7) and insert two screws (1).
- (5) Slide S-hook at chain end of platform anchor (5) onto threaded end of lower screw (1) inside trailer frame (6).
- (6) Install one flat washer (2) and one nut (3) on each screw (1) and tighten.

**4-22. Fender Replacement.** (See figure 4-10.) The trailer assembly fenders are symmetrical, and replacement procedures are the same for each.

*a. Removal.*

- (1) Remove five screws (1, figure 4-10), ten flat washers (2) and five nuts (3) securing fender (4) to trailer frame (5).

**WARNING**

There are five sets of hardware securing fender to rear step and seven sets of hardware securing fender to front step. This hardware should be removed in sequence from trailer frame outward. In this way, last two screws on front and rear lower fender edge will support fender until you are out from underneath.

- (2) Remove six screws (6), 12 flat washers (7) and six nuts (8) securing fender (4) to front step (9).
- (3) Remove four screws (10), eight flat washers (11) and four nuts (12) securing fender (4) to rear step (13).

**WARNING**

Support fender while removing remaining two screws. When screws are removed, fender will drop.

- (4) Remove one screw (6), two flat washers (7) and one nut (8) securing fender (4) to front step (9).
- (5) Remove one screw (10), two flat washers (11) and one nut (12) securing fender (4) to rear step (13).
- (6) Remove fender (4).

*b. Installation.*

- (1) Position fender (4) on trailer.
- (2) Insert one screw (10) with flat washer (11) through lower outside edge of fender (4) into rear step (13), and insert one screw (6) with flat washer (7) through lower outside edge of fender (4) into front step (9).
- (3) Install one washer (11) and one nut (12) on screw (10), and one washer (7) and one nut (8) on screw (6). Tighten hardware.

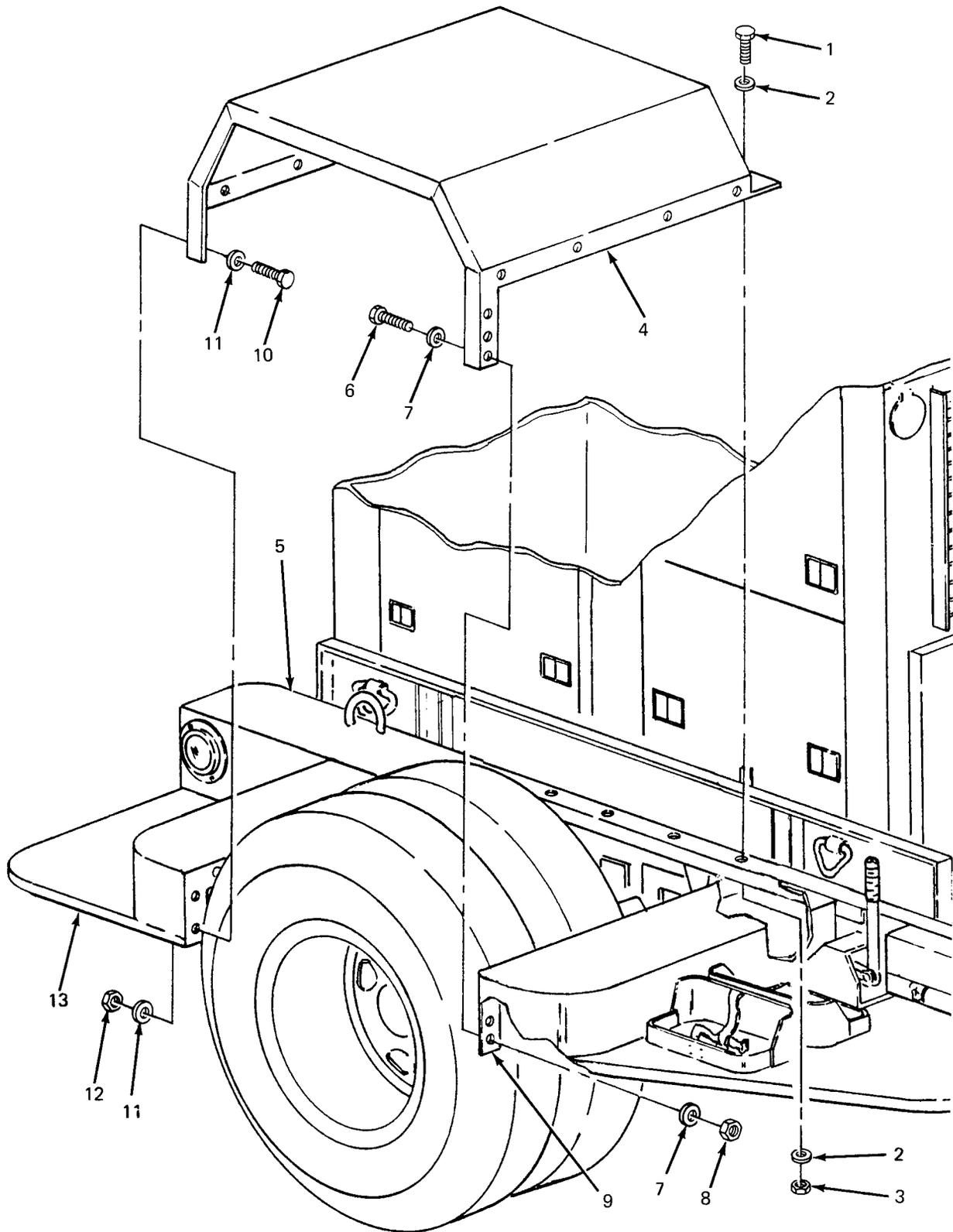


Figure 4-10. Fender Replacement

- (4) Insert five screws (1) with flat washers (2) down through fender (4) into trailer frame (5).
- (5) Working under fender, install one flat washer (2) and one nut (3) on each screw (1) and tighten.
- (6) Insert six screws (6) with flat washers (7) through fender (4) into front step (9). Install one washer (7) and one nut (8) on each screw (6) and tighten.
- (7) Insert four screws (10) with flat washers (11) through fender (4) into rear step (13). Install one washer (11) and one nut (12) on each screw (10) and tighten.

**4-23. Personnel Platform Replacement.** (See figure 4-11). The platform is mounted to the rear of the trailer to facilitate access to the generator set controls and indicators.

**a. Removal.**

- (1) Remove two screws (1, figure 4-1 1), four flat washers (2) and two nuts (3) securing platform (4) to mounting brackets (5).

**WARNING**

Support platform while removing anchors. When anchors are removed, platform will drop.

- (2) Remove two platform anchors (6) by pushing in on button on head of pin while pulling pin out of mounting hole.

**NOTE**

Mounting brackets are fastened with lock nuts. Removal may damage locking capability when reinstalled. Do not remove mounting brackets unless they are damaged.

- (3) Remove three screws (7), three flat washers (8) and three nuts (9) from each mounting bracket (5) and take mounting brackets off of trailer frame (10).

**b. Installation.**

**NOTE**

If mounting brackets have not been removed, omit step (1).

- (1) Position each mounting bracket (5) on trailer frame (10). Insert three screws (7) through frame into each bracket. Install one washer (8) and one nut (9) on each screw and tighten.
- (2) Holding platform (4) in vertical position, position platform on mounting brackets (5) so that holes in platform line up with holes in brackets and install platform anchors (6) in upper mounting hole on each side of platform.
- (3) Secure platform (4) to brackets (5) with two screws (1), four flat washers (2) and two nuts (3).

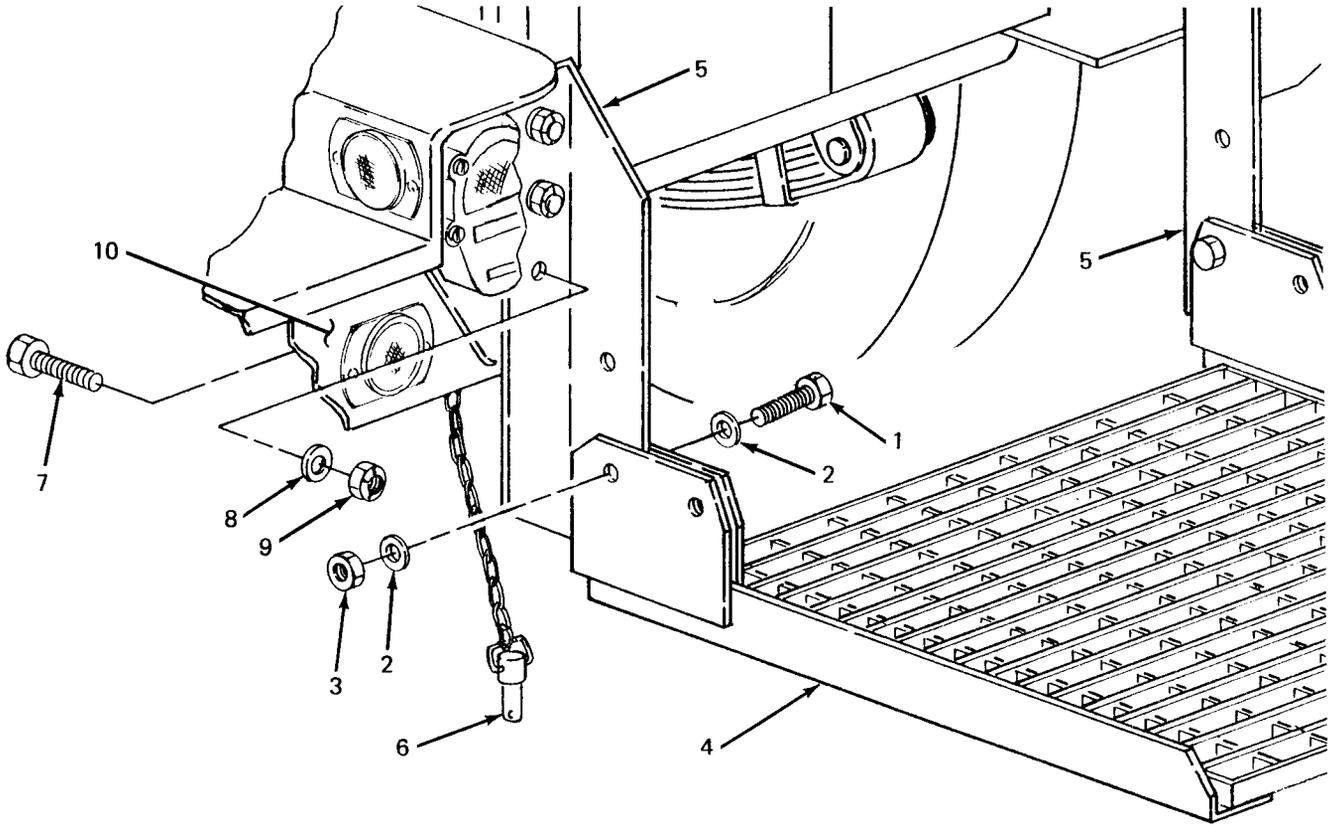


Figure 4-11. Personnel Perform Replacement



## 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 M200A1 trailer added when the trailer is used as part of the PU-406B/M power unit. These components are not covered in the overall trailer maintenance manual. For all other intermediate direct and general support maintenance procedures on the trailer, refer to TM 9-2330-205-14&P. For intermediate direct and general support maintenance procedures on the generator set, refer to TM 5-6115-465-34.

#### WARNING

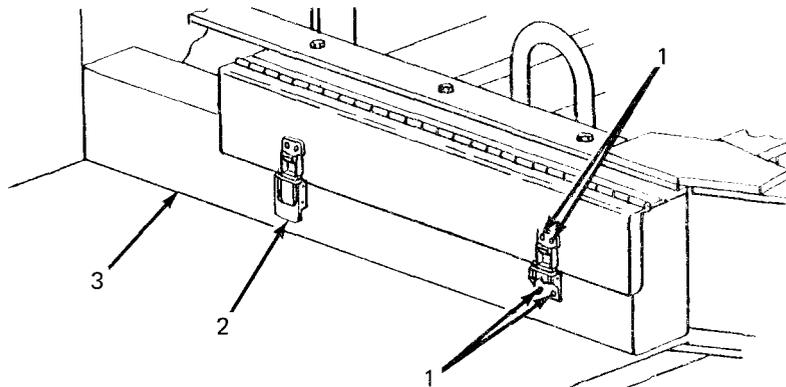
Before performing any maintenance that requires climbing on or under trailer, set trailer handbrakes, chock wheels, and lower rear leveling jacks. Injury to personnel could result from trailer suddenly rolling or tipping.

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

**5-2. Step and Fender Repair.** Repair of the front and rear steps and the fenders is limited to straightening, welding and repainting. If required, repaint in accordance with MIL-T-704, Type F, Color Green, No. 383 of MIL-C-46168.

**5-3. Accessory Box Repair.** (See figure 5-1.) The accessory box is repaired by replacing the latch and strike assemblies. 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. Replace latch and strike assemblies as follows:

- a. Grind off or drill out solid rivets (1, figure 5-1) securing latch and strike assembly (2) to accessory box (3).
- b. Position new latch and strike assembly (2) on accessory box (3) and secure with solid rivets (1).
- c. Touch up with paint as required.



*Figure 5-1. Accessory Box Repair.*

**5-4. Marking.** (See figure 5-2.) The power unit four-digit registration number, preceded by the prefix "VA" 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. 35 PSI" is marked in  $1.00 \pm .12$  inch high characters in accordance with MIL-STD-130. Figure 5-2 shows the approximate location of markings on the power unit. 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.

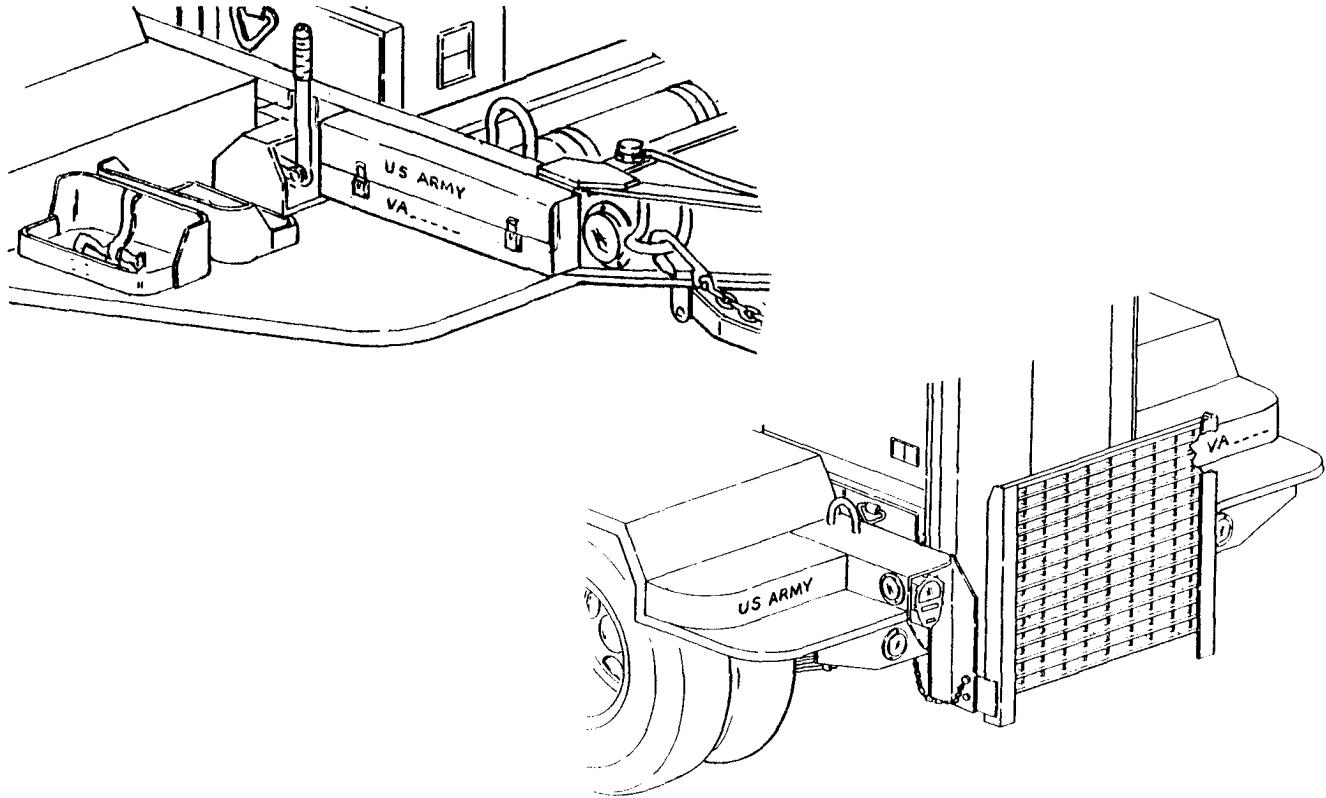


Figure 5-2. Power Unit Markings.

### Section III. GENERATOR SET

**5-5. Generator Set Replacement.** (See figures 5-3 and 5-4.)

a. Removal.

- (1) Disconnect ground wire (1, figure 5-3) from generator set (2) to GROUND TERMINAL stud (3) on trailer.

**NOTE**

Two center mounting screws on each side can be reached through cutouts in trailer frame under each fender.

The beveled washers (5) may have been welded in place.

- (2) Remove eight screws (4), eight beveled washers (5), eight flat washers (6) and eight nuts (7) securing generator set (2) to trailer.

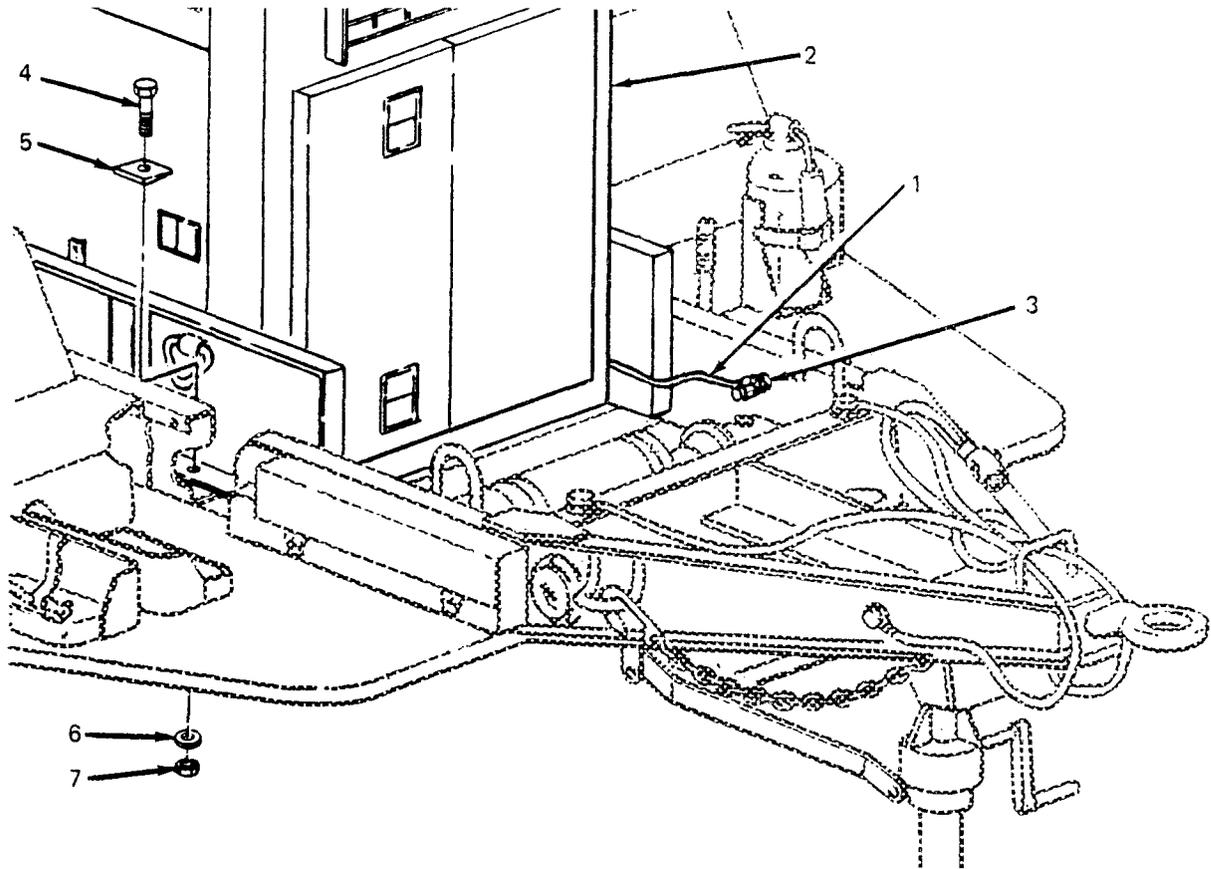


Figure 5-3. Detaching Generator Set from Trailer.

**WARNING**

When lifting generator set, use lifting equipment with a minimum lifting capacity of 3500 lb. Do not stand under generator while it is being lifted. Do not permit generator set to swing. Failure to observe these precautions can cause injury to personnel or damage to equipment.

- (3) Attach lifting equipment with a minimum lifting capacity of 3500 lb (1, figure 5-4) to both lifting eyes (2) on top edges of generator set (3). Insert a rope (4) through each of four tiedown rings (5) on generator set.
- (4) With one person at each rope to steady and guide generator set (3), lift generator set off of trailer.

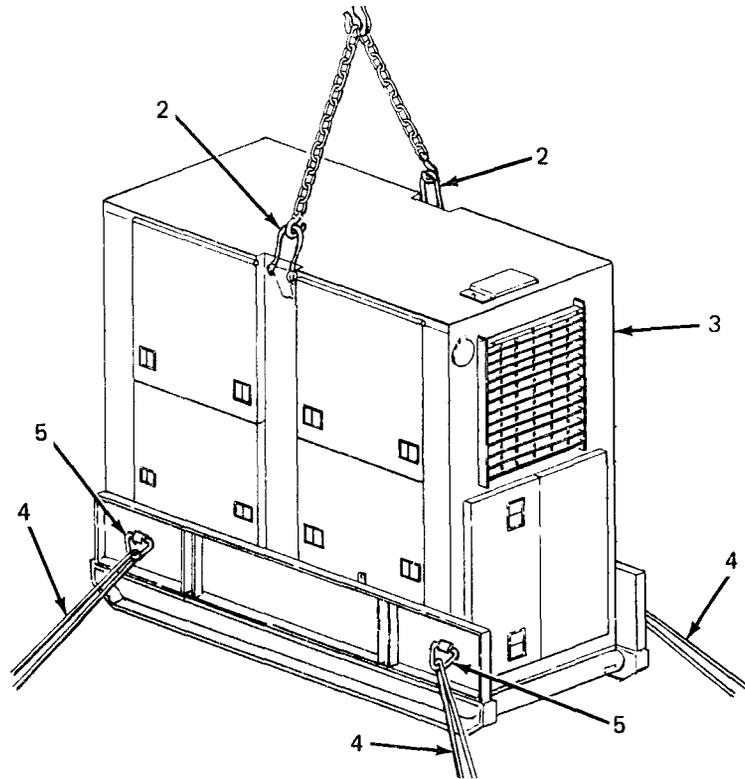


Figure 5-4. Lifting Generator Set.

b. Installation.

**WARNING**

When lifting generator set, use lifting equipment with a minimum lifting capacity of 3500 lb. Do not stand under generator while it is being lifted. Do not permit generator set to swing. Failure to observe these precautions can cause injury to personnel or damage to equipment.

- (1) Attach lifting equipment with a minimum lifting capacity of 3500 lb (1, figure 5-4) to lifting eyes (2) on top edges of generator set (3). Insert a rope (4) through each of four tiedown rings (5) on generator set.
- (2) With one person at each rope to steady and guide generator set (3), lift generator set and carefully lower it onto trailer.

**NOTE**

Two center mounting screws on each side can be reached through cutouts in trailer frame under each fender.

- (3) Insert eight screws (4, figure 5-3) with beveled washers (5) down through generator set skids into railer.

- (4) Working under trailer, install one flat washer (6) and one nut (7) on each screw (4).
- (5) Position beveled washers (5) so that screw heads are parallel to tops of washers. While holding beveled washers in position, tighten hardware.
- (6) Connect generator set ground wire (1) to trailer GROUND TERMINAL stud (3).



## 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 unit 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 5-6115-465-12 and -34 for inspections required following repair of the generator set.

**6-3. Trailer Inspections.** Refer to TM 9-2330-205-14&P for inspections required following repair of the trailer.

#### Section III. OPERATIONAL TESTS

**6-4. Generator Set Operational Tests.** Refer to TM 5-6115-465-12 and -34 for operational tests required to verify satisfactory performance of the generator set.

**6-5. Trailer Operational Tests.** Refer to TM 9-2330-205-14 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 .....	AFM 66-1
Technical Order System Publication Improvement Report and Reply.....	AFTO Form 22
Recommended Changes to Publications and Blank Forms .....	DA Form 2028
Depreservation Guide for Vehicles and Equipment .....	DA Form 2258
Equipment Inspection and Maintenance Worksheet .....	DA Form 2404
Maintenance Request .....	DA Form 2407
Consolidated Index of Army Publications .....	DA PAM 310-1
The Army Maintenance Management System (TAMMS) .....	DA PAM 738-750
Product Quality Deficiency Report .....	SF 368

#### A-3. Military Specifications.

Chemical Agent Resistant Aliphatic Polyurethane Coating .....	MI L-C-46168
Identification Marking of U.S. Military Property .....	MIL-STD-130
Identification Marking of Combat and Tactical Transport .....	MI L-STD-642
Treatment and Painting of Materiel .....	MI L-T-704

#### A-4. Technical Manuals.

Operator and Organizational Maintenance Manual for Generator Set Set, Diesel Engine Driven, Tactical Skid Mounted, 30KW, 3 Phase 4 Wire; 120/208 and 240/416V (DOD Model MEP-005A) Utility Class, 50/60 Hz (NSN 6115-00-118-1240), (Model MEP-104A), Precise Class, 50/60 Hz (6115-00-118-1247); (Model MEP-114A), Precise Class, 400 Hz(6115-00-118-1248) .....	TM 5-6115-465-12
Organizational Direct Support and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools) for Generator Sets, Diesel Engine Driven, Tactical Skid Mounted, 30 KW, 3 Phase, 4 Wire, 120/208 and 240/416 V (DOD Model MEP-005A) Utility Class, 50/60 HZ (NSN 6115-00-118-1240); (Model MEP-104A), Precise Class, 50/60 HZ (6115-00-118-1247); (Model MEP-114A), Precise Class, 400 HZ (6115-00-118-1248) .....	TM 5-6115-465-24P
Intermediate (Field) (Direct and General Support) and Depot Level Maintenance Manual for Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 30 KW, 3 Phase, 4 Wire, 120/208 and 240/416 V (DOD Model MEP-005A), Utility Class, 50/60 HZ (NSN 6115-00-118-1240), (Model MEP-004A), Precise Class, 50/60 HZ (6115-00-138-1247); (Model MEP-114A), Precise Class, 400 HZ(6115-00-118-1248) .....	TM 5-6115-465-34
Procedures for Destruction of Equipment to Prevent Enemy Use (Mobility Equipment Command) .....	TM 750-244-3

Operator's, Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools List for Chassis, Trailer, Generator, 2-1/2 Ton, 2-Wheel M200A1 (NSN 2330-00-331-2307) . . . . . TM 9-2330-205-14&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.**

Preservation of USAMECOM Mechanical Equipment for Shipment and Storage . . . . . TB 740-97-2

## APPENDIX B

# COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS

### Section I INTRODUCTION

**B-1. Scope.** This appendix lists components of end item and basic issue items for the power unit 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. Section II. Components of End Item.* 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. Section III. Basic Issue Items.* These are the minimum essential items required to place the power unit in operation, to operate it, and to perform emergency repairs. Although shipped separately packaged, BI must be with the power unit 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 BI, 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. Column (3), Description.* 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. Column (4), Unit of Measure (U/M).* Indicates the measure used in performing the actual operational/maintenance function. This measure is expressed by a two-character alphabetical abbreviation (eg, ea, in, pr).

*e. Column (5), Quantity Required (Qty Req'd).* Indicates the quantity of the item authorized to be used with/on the equipment.

Section II COMPONENTS OF END ITEM

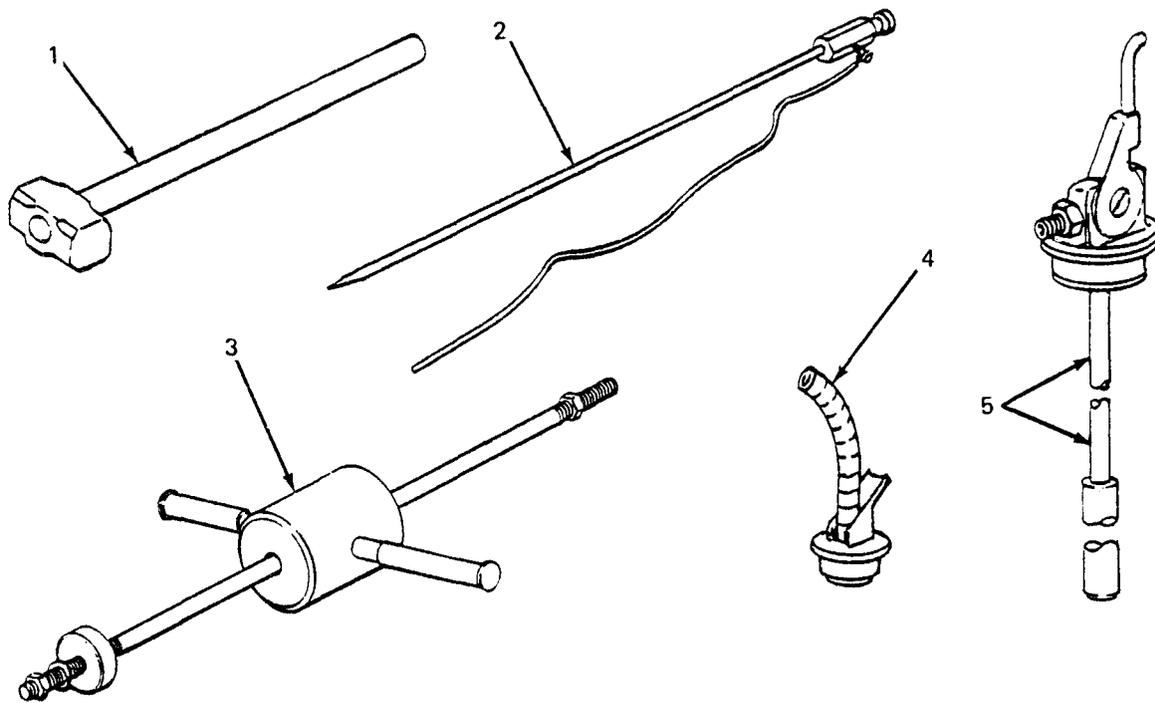


Figure B-1. Components of End Item

(1) Illus no.	(2) National stock number	(3) Description FSCM and part number	Usable on code	(4) U/M	(5) Qty'd req'd
1	5120-00-243-2957	Hammer, Hand, Engineers 8 lb. (3.6 kg) (81348) GGG-H-86		EA	1
2	5975-00-878-3791	Rod, Ground, Driven, Sectional, 9 ft (2.7 m) (81349) MIL-R-11461		EA	2
3	5120-01-013-1676	Hammer, Slide (97403) 13226E7741		EA	1
4	7240-00-177-6154	Spout, Can, Flexible (81349) MIL-S-1285		EA	1
5	2910-00-06601235	Adapter Assy, Fuel Drum (97403) 13214E7541		EA	1

Section III BASIC ISSUE ITEMS

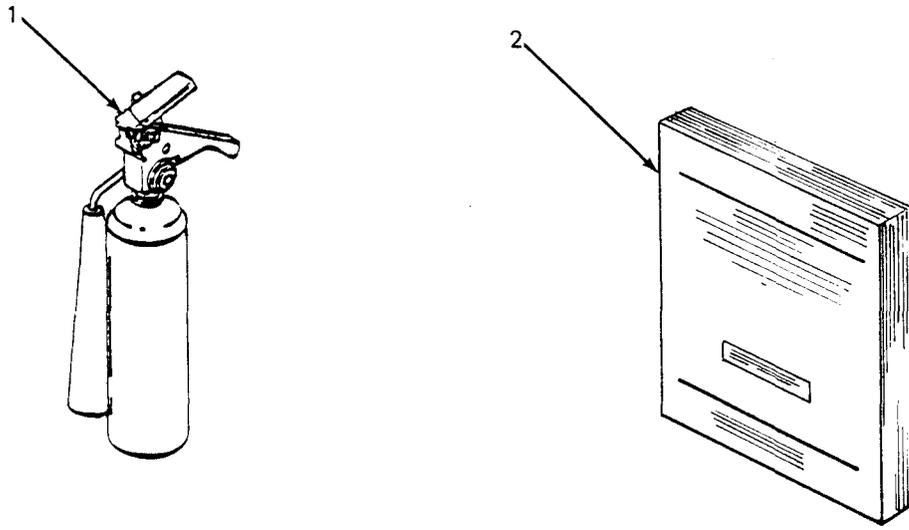


Figure B-2. Basic Issue Items

(1) Illus no.	(2) National stock number	(3) Description FSCM and part number	(4) Usable on code	(5) Qty'd req'd
1	4210-00-270-4512	Extinguisher, Fire, Hand, 5 lb. (2.3 kg) (81348) O-E-910	EA	1
2		Manual, Technical TM 5-6115-626-14&P/ TO-35C2-3-485-1	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 functions.

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

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. Maintenance Functions. 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. Symbols. 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) Group no.	(2) Assembly group	(3) Maintenance functions											(4) Tools and equipment	(5) Remarks	
		A	B	C	D	E	F	G	H	I	J	K			
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild			
01	GENERATOR SET	C 0.2		C 2.0					F 3.0						See TM 5-6115-465-12, - 34 for generator set maintenance.
02	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						
03	TRAILER ASSEMBLY	C 0.5	O 1.0	C 0.5											See TM 9-2330-205-14&P for trailer maintenance.
	Accessory Box								O 0.5	F 2.0					
	Fuel Can/Fire Extinguisher Brackets	C 0.1							O 0.5						
	Steps/Platforms	C 0.1							O 0.1	F 2.0					
	Fenders								O 1.0	F 2.0					
	Reflectors	C 0.1							O 0.5						
	Data Plates								O 0.2						
	Leveling Jacks	C 0.1													

(1) Group no.	(2) Assembly group	(3) Maintenance functions											(4) Tools and equipment	(5) Remarks	
		A Inspect	B Test	C Service	D Adjust	E Align	F Calibrate	G Install	H Replace	I Repair	J Overhaul	K Rebuild			
03	TRAILER ASSEMBLY – CONT														
	Lighting	C 0.1	O 0.3							O 1.0	O 0.5				
	Handbrake	C 0.1		O 0.2						F 0.5	F 0.5				

## APPENDIX D

# UNIT, INTERMEDIATE (FIELD) (DIRECT SUPPORT AND GENERAL SUPPORT) AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL 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 unit. 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. (ALL) Repair Parts – Section II. 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. National Stock Number and Reference Number Index – Section IV. 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. Reference Designator Index – Section V. 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.
PB	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 outfitting to specified maintenance repair activities.
PF	Support equipment which will not be stocked but which will be centrally procured on demand.
PG	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which because of probable discontinuance or shutdown of production facilities would prove uneconomical to reproduce at a later time.
KD	An item of depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required 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.
KB	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 (*)
AH	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.
XB	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 For 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.

(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 (*)
H	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).

0	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 For 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.
B	No repair is authorized. The item maybe 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 (*)
H	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 For 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.
A	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) National 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 are a 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. Abbreviations.**

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: MMEDT, McClellan AFB, CA 95652.

b. Army DA Form 2028, directly to: Commander, US Army Troop Support Command, ATTN: AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798.



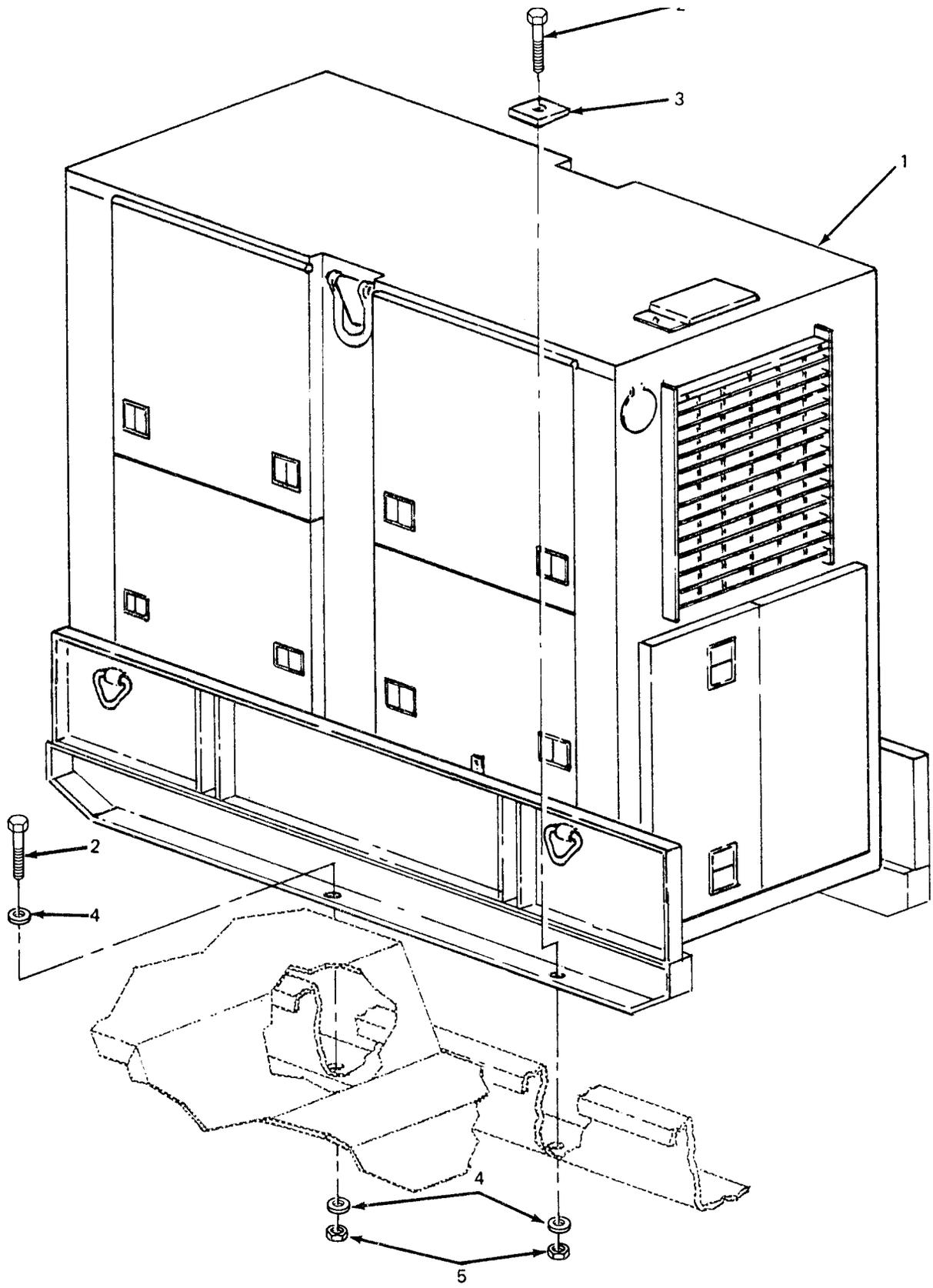


Figure D-1. Generator Set.

## SECTION II

TMS-6115-626-14&amp;P

(1) ILLUS- TRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	(8)	
A FIG NO.	B ITEM NO.	A ARMY	B AIR FORCE	C NAVY	D USMC	A SSI	B REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
GROUP 01 - GENERATOR													
D-1	1	PAOFD						6115-00-118-1240	GENERATOR SET, DIESEL MEP-005A 30554		EA	1	
D-1	2	PAOZZ						5305-00-724-7222	SCREW, CAP, HEX MS90728-164 96906		EA	8	
D-1	3	PAOZZ						5310-01-185-0586	WASHER, BEVELED 13206E4482-3 97403		EA	4	
D-1	4	PAOZZ						5310-00-823-8803	WASHER, FLAT MS27183-21 96906		EA	8	
D-1	5	PAOZZ						5310-00-269-4040	NUT, SELF-LOCKING MS51922-49 96906		EA	8	

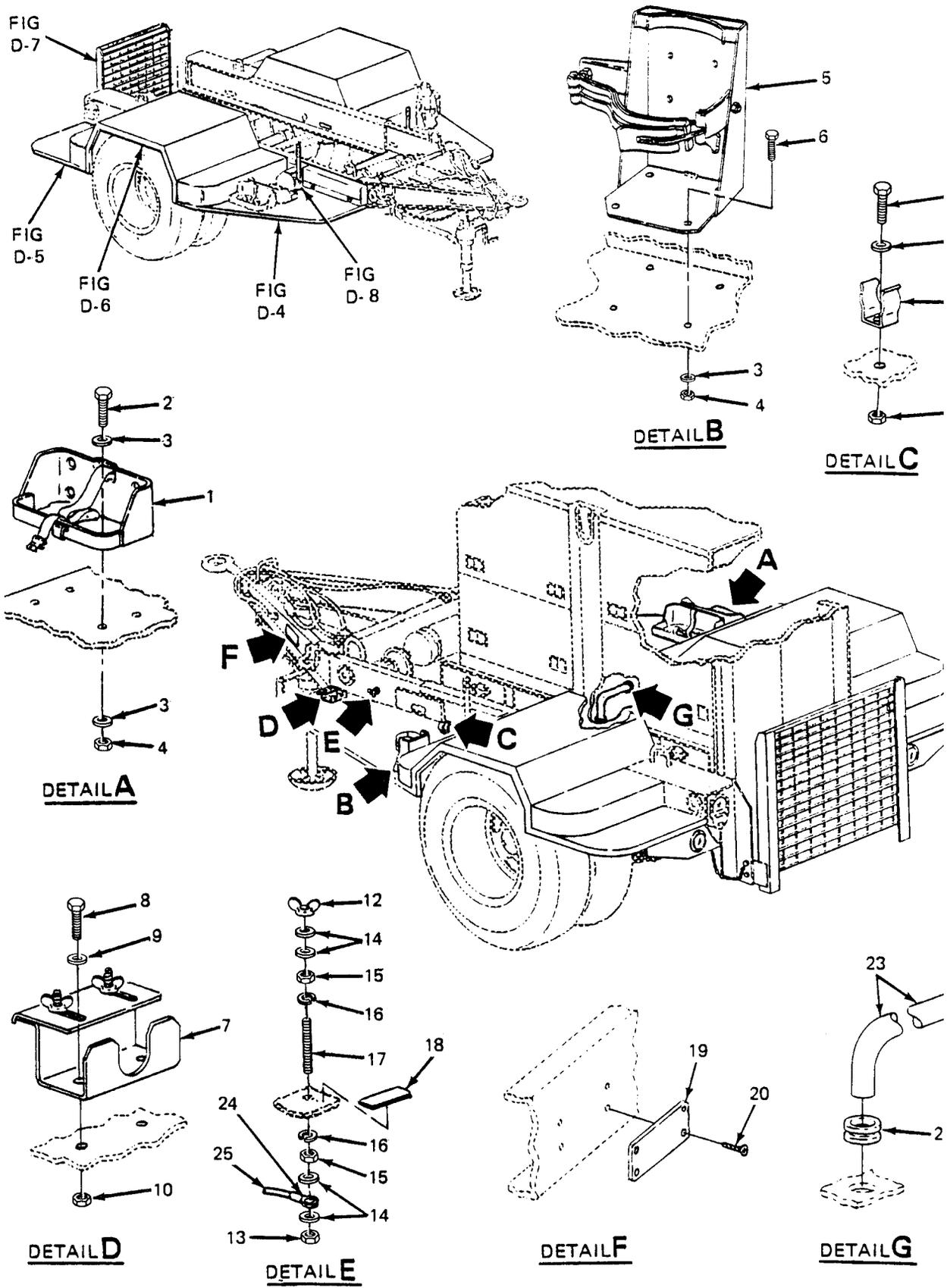


Figure D-2. Trailer Body.

## SECTION II

TMS-6115-626-14&amp;P

(1) ILLUS- TRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	(8)
A	B	A	B	C	D	A	B	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	QTY INC IN UNIT	USMC QTY PER EQUIP
FIG NO.	ITEM NO.	ARMY	AIR FORCE	NAVY	USMC	SSI	REPL FACTOR			U/M		
									GROUP 03 - TRAILER 03 - BODY			
D-2	1	XBOZZ							BRACKET ASSEMBLY, LIQUID CONTAINER MS53052-1 96906	EA	2	
D-2	2	PAOZZ						5305-00-269-3210	SCREW, CAP, HEX MS90725-62 96906	EA	8	
D-2	3	PAOZZ						5310-00-080-6004	WASHER, FLAT MS27183-14 96906	EA	20	
D-2	4	PAOZZ						5310-00-087-4652	NUT, SELF-LOCKING MS51922-17 96906	EA	12	
D-2	5	PAOZZ						4210-00-223-4857	BRACKET, FIRE EXTINGUISHER 13214E1235 97403	EA	1	
D-2	6	PAOZZ						5305-00-984-5691	SCREW, MACHINE MS35206-311 96906	EA	4	
D-2	7	PAOZZ						5340-00-999-6277	BRACKET ASSEMBLY 13214E1214 97403	EA	1	
D-2	8	PAOZZ						5305-00-068-0502	SCREW, CAP, HEX MS90725-6 96906	EA	3	
D-2	9	PAOZZ						5310-00-809-4058	WASHER, FLAT MS27183-10 96906	EA	3	
D-2	10	PAOZZ						5310-00-088-1251	NUT, SELF-LOCKING MS51922-1 96906	EA	3	
D-2	11	PAOZZ						5304-00-914-2578	CLIP, SPRING 13214E1213-1 97403	EA	1	
D-2	12	PAOZZ						5310-00-004-9129	NUT, PLAIN, WING MS35425-28 96906	EA	1	
D-2	13	PAOZZ						5310-00-584-7995	NUT, PLAIN, HEX MS16203-27 96906	EA	1	
D-2	14	PAOZZ						5310-00-004-9129	WASHER, FLAT AN961-616S 88044	EA	4	
D-2	15	PAOZZ						5310-00-026-5824	NUT, PLAIN, HEX MS16203-39 96906	EA	2	
D-2	16	PAOZZ						5310-00-022-8847	LOCKWASHER MS35333-110 96906	EA	2	
D-2	17	PAOZZ						5307-00-227-1741	STUD 13214E1223 97403	EA	1	
D-2	18	MDOZZ						9905-01-085-7703	PLATE, IDENTIFICATION 13205E4918 97403	EA	1	
D-2	19	MDOZZ							PLATE, IDENTIFICATION 13216E7604-38 97403	EA	1	
D-2	20	PAOZZ						5305-00-253-5615	SCREW, DRIVE MS21318-21 96906	EA	4	
D-2	21	PAOZZ						4730-00-908-3193	CLAMP, HOSE MS35842-12 96906	EA	1	

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## SECTION II

TM5-6115-626-14&amp;P

(1) ILLUS- TRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	(8)	
A	B	A	B	C	D	A	B	NATIONAL STOCK	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
FIG NO.	ITEM NO.	ARMY	AIR FORCE	NAVY	USMC	SSI	REPL FACTOR	NUMBER					
									GROUP 03 - TRAILER 03 - BODY - CONT				
D-2	22	PAOZZ						5325-00-290-1960	GROMMET MS35489-27 96906		EA	1	
D-2	23	MHOZZ							HOSE ZZ-H-428 81348		EA	1	
D-2	24	PAOZZ						5940-00-115-4992	TERMINAL, LUG MS20659-110 96906		EA	2	
D-2	25	PAOZZ						6145-00-395-8799	WIRE, NO. 6 AWG QQ-W-343 81348		FT	AR	

D-14/(D-15 BLANK)



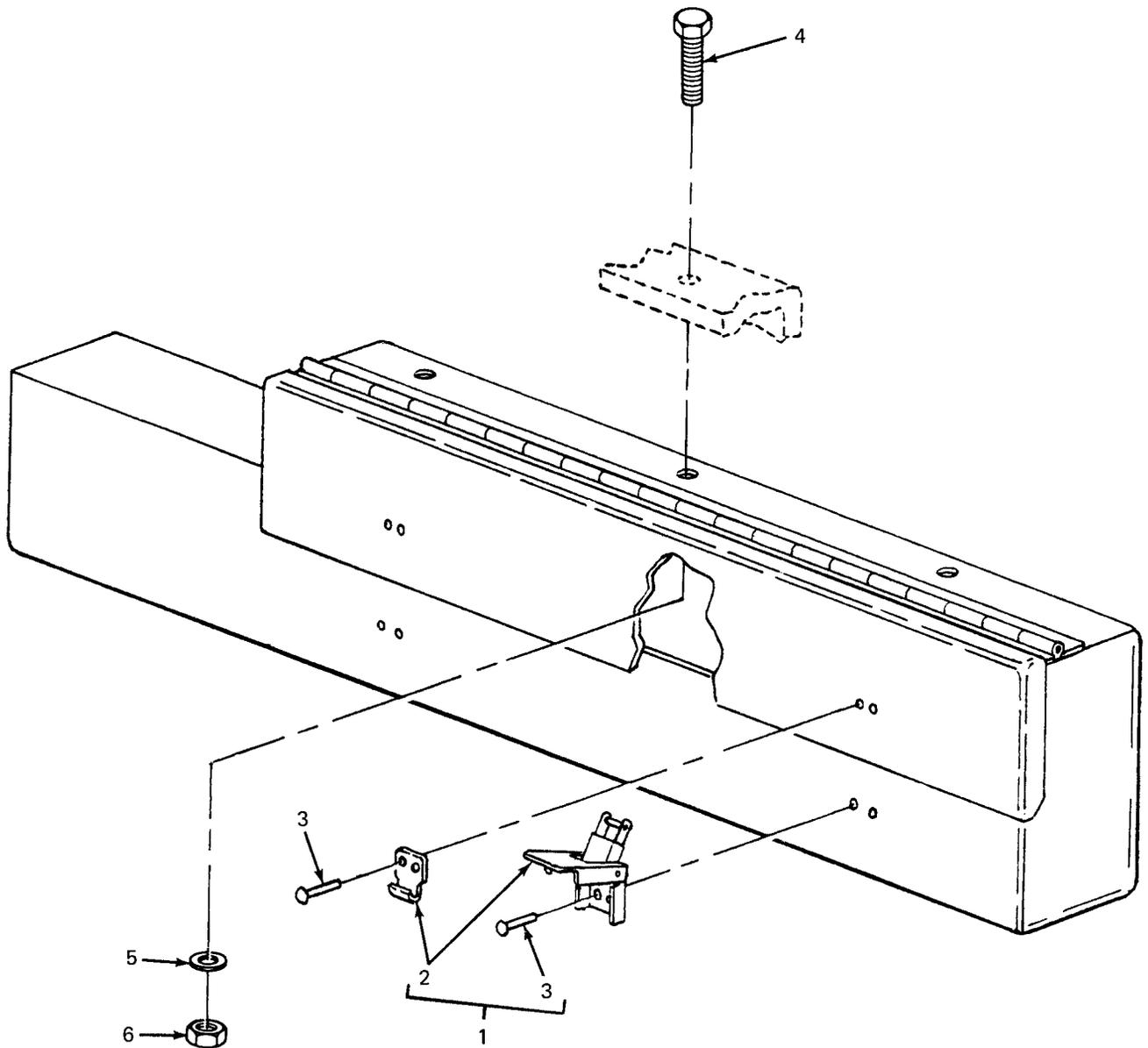


Figure D-3. Accessory Box.

(1) ILLUS- TRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	(8)	
A	B	A	B	C	D	A	B	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
FIG NO.	ITEM NO.	ARMY	AIR FORCE	NAVY	USMC	SSI	REPL FACTOR						
									03 - ACCESSORY BOX				
D-3	1	PAOFF						2450-00-903-3503	ACCESSORY BOX 13214E1256 97403		EA	1	
D-3	2	PAFZZ						5340-00-975-2126	CATCH, CLAMPING AND STRIKE ASSEMBLY MS18015-1 96906		EA	2	
D-3	3	PAFZZ						5320-00-753-3830	RIVET MS20613-4PS 96906		EA	8	
D-3	4	PAOZZ						5306-00-225-8498	SCREW, CAP, HEX MS90725-33 96906		EA	3	
D-3	5	PAOZZ						5310-00-087-7493	WASHER, FLAT MS27183-13 96906		EA	3	
D-3	6	PAOZZ						5310-00-985-3806	NUT, SELF-LOCKING MS51922-9 96906		EA	3	

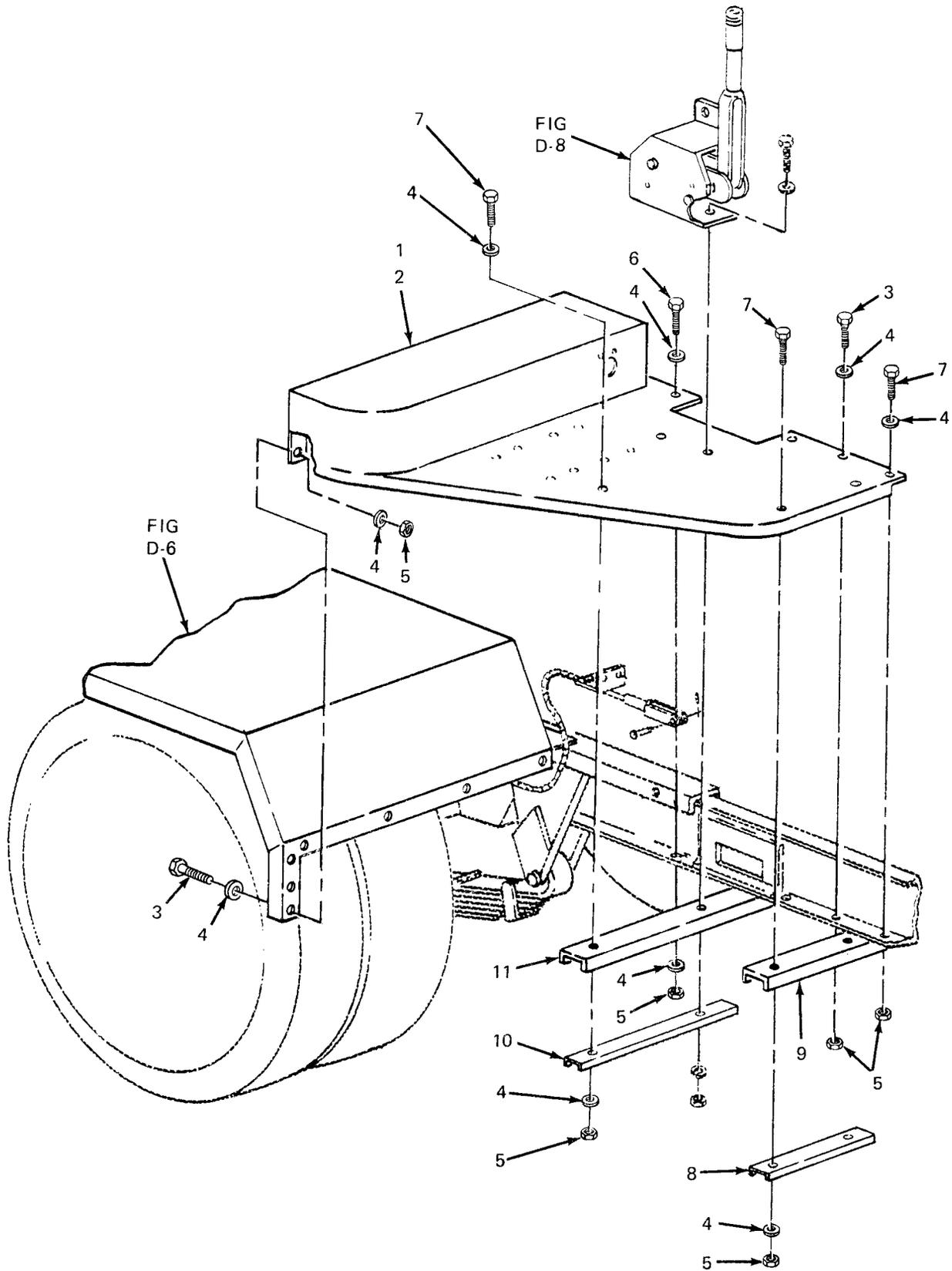


Figure D-4. Front Steps.

## SECTION II

TMS-6115-626-14&amp;P

(1) ILLUS- TRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	(8)	
A FIG NO.	B ITEM NO.	A ARMY	B AIR FORCE	C NAVY	D USMC	A SSI	B REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
									03 - FRONT STEPS				
D-4	1	XBOZZ						2330-01-150-9864	STEP, FRONT, CURBSIDE 13214E1461 97403		EA	1	
D-4	2	XBOZZ						2510-01-196-4682	STEP, FRONT, ROADSIDE 13214E1462 97403		EA	1	
D-4	3	PAOZZ						5306-00-225-8499	SCREW, CAP, HEX MS90725-34 96906		EA	18	
D-4	4	PAOZZ						5310-00-081-4219	WASHER, FLAT MS27183-12 96906		EA	60	
D-4	5	PAOZZ						5310-00-984-3806	NUT, SELF-LOCKING MS51922-9 96906		EA	30	
D-4	6	PAOZZ						5305-00-225-9081	SCREW, CAP, HEX MS90725-36 96906		EA	2	
D-4	7	PAOZZ						5306-00-225-8503	SCREW, CAP, HEX MS90725-39 96906		EA	10	
D-4	8	MDOZZ						5365-00-944-2692	SPACER 13214E1267-1 97403		EA	2	
D-4	9	MFFZZ							CHANNEL 13214E1268 97403		EA	1	
D-4	10	MFFZZ						5365-00-945-5998	SPACER 13214E1267-2 97403		EA	2	
D-4	11	MFFZZ							CHANNEL 13214E1463 97403		EA	1	

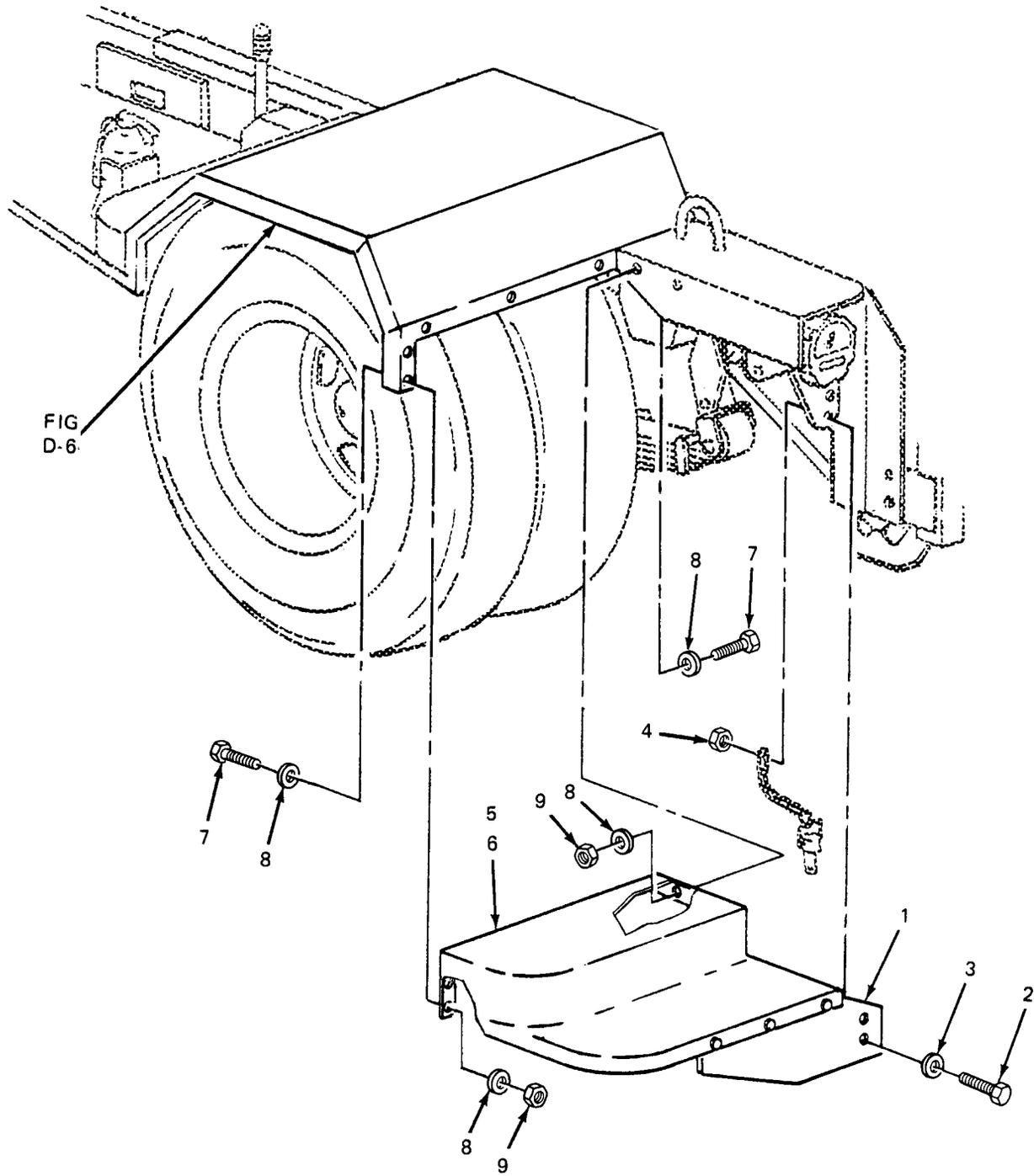


Figure D-5. Rear Steps.

## SECTION II

TM5-6115-626-14&amp;P

(1) ILLUS- TRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	(8)	
A FIG NO.	B ITEM NO.	A ARMY	B AIR FORCE	C NAVY	D USMC	A SSI	B REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
									03 - REAR STEPS				
D-5	1	XBFZZ						5340-01-B75-8820	BRACKET, STEP, REAR 13214E1309-1 97403		EA	2	
D-5	2	PAOZZ						5305-00-269-3213	SCREW, CAP, HEX MS90725-62 96906		EA	6	
D-5	3	PAOZZ						5310-00-080-6004	WASHER, FLAT MS27183-14 96906		EA	6	
D-5	4	PAOZZ						5310-00-087-4652	NUT, SELF-LOCKING MS51922-17 96906		EA	6	
D-5	5	XBOZZ						2510-01-N73-0729	STEP, REAR, ROADSIDE 13214E1261 97403		EA	1	
D-5	6							2510-01-N73-0794	STEP, REAR, CURBSIDE 13214E1259 97403		EA	1	
D-5	7	PAOZZ						5306-00-225-8499	SCREW, CAP, HEX MS90725-34 96906		EA	20	
D-5	8	PAOZZ						5310-00-081-4219	WASHER, FLAT MS27183-12 96906		EA	40	
D-5	9	PAOZZ						5310-00-984-3806	NUT, SELF-LOCKING MS51922-9 96906		EA	20	

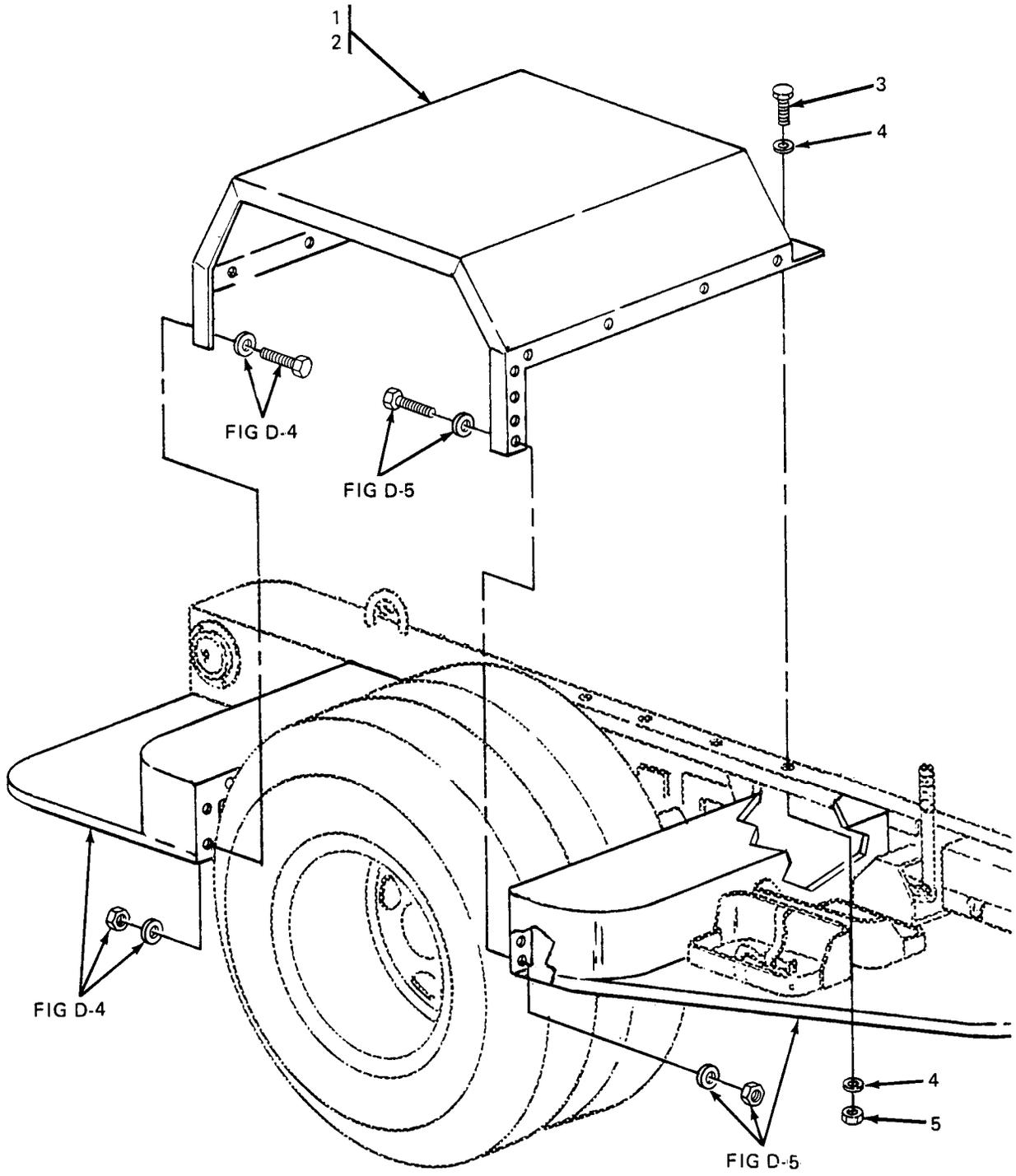


Figure D-6. Fenders.

## SECTION II

TMS-6115-626-14&amp;P

(1) ILLUS- TRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	(8)	
A FIG NO.	B ITEM NO.	A ARMY	B AIR FORCE	C NAVY	D USMC	A SSI	B REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
									03 - FENDERS				
D-6	1	XDOZZ						2510-01-213-3242	FENDER, ROADSIDE 13214E1264 97403		EA	1	
D-6	2	XBOZZ						2510-01-195-4273	FENDER, CURBSIDE 13214E1263 97403		EA	1	
D-6	3	PAOZZ						5306-00-225-8500	SCREW, CAP, HEX MS90725-35 96906		EA	10	
D-6	4	PAOZZ						5310-00-081-4219	WASHER, FLAT MS27183-12 96906		EA	20	
D-6	5	PAOZZ						5310-00-984-3806	NUT, SELF-LOCKING MS51922-9 96906		EA	10	

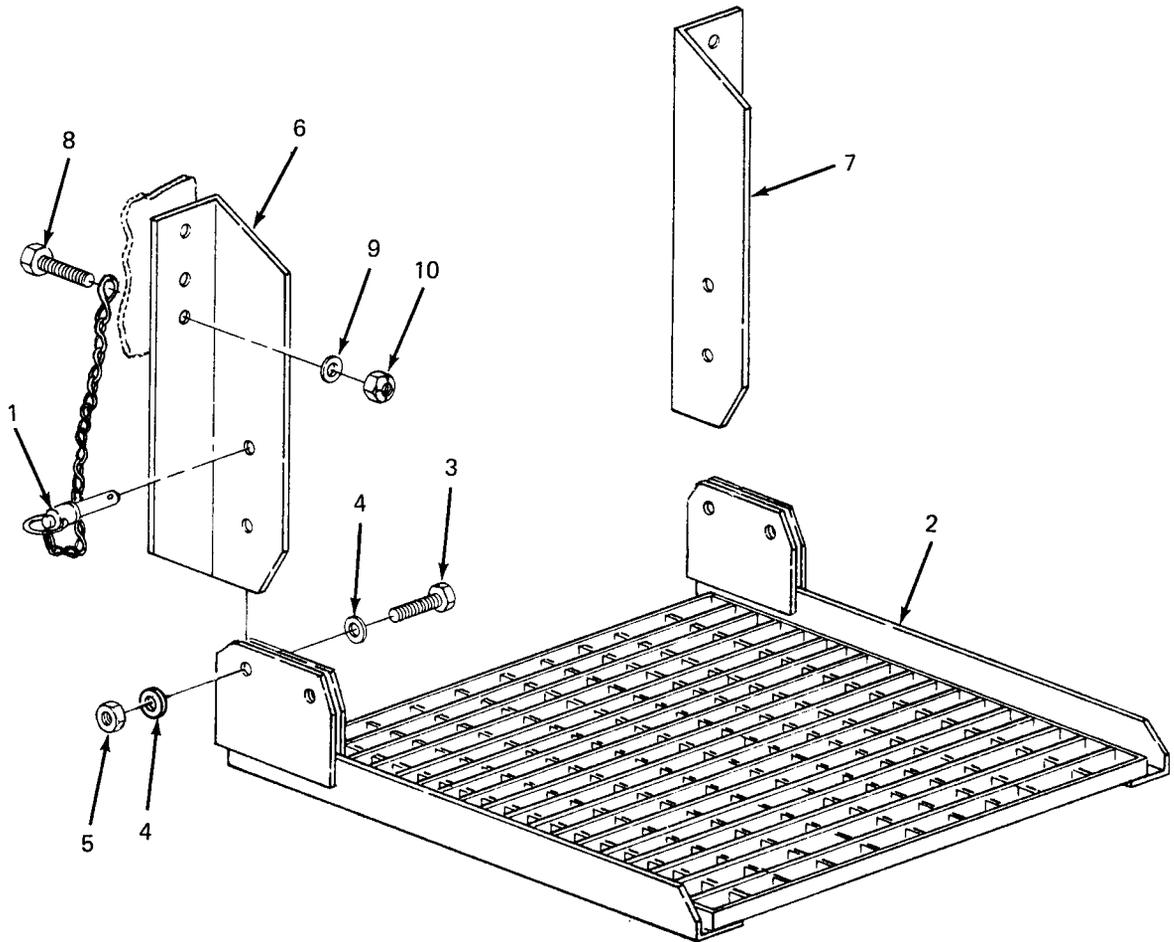


Figure D-7. Personnel Platform.

## SECTION II

TM5-6115-626-14&amp;P

(1) ILLUS- TRATION A FIG NO.	B ITEM NO.	(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION  REF NUMBER & MFR CODE	(6) USABLE ON CODE  U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
		A ARMY	B AIR FORCE	C NAVY	D USMC	A SSI	B REPL FACTOR					
									03 - PERSONNEL PLATFORM			
D-7	1	PBOOZ						5340-01-156-6142	ANCHOR, PLATFORM 13214E1303 97403	EA	2	
D-7	2	XBOZZ						2510-00-926-3517	PLATFORM, PERSONNEL 13214E1298 97403	EA	1	
D-7	3	PAOZZ						5305-00-939-9204	SCREW, CAP, HEX MS90725-187 96906	EA	2	
D-7	4	PAOZZ						5310-00-809-8533	WASHER, FLAT MS27183-23 96906	EA	4	
D-7	5	PAOZZ						5310-00-067-6356	NUT, SELF-LOCKING MS51922-57 96906	EA	2	
D-7	6	PBOZZ						5340-00-087-7676	BRACKET, LEFT 13214E1299 97403	EA	1	
D-7	7	PBOZZ						5340-00-999-6441	BRACKET, RIGHT 13214E1300 97403	EA	1	
D-7	8							5305-00-042-6417	SCREW, CAP, HEX MS90725-113 96906	EA	6	
D-7	9	PAOZZ						5310-00-809-5998	WASHER, FLAT MS27183-18 96906	EA	6	
D-7	10	PAOZZ						5310-00-225-6993	NUT, SELF-LOCKING MS51922-33 96906	EA	6	

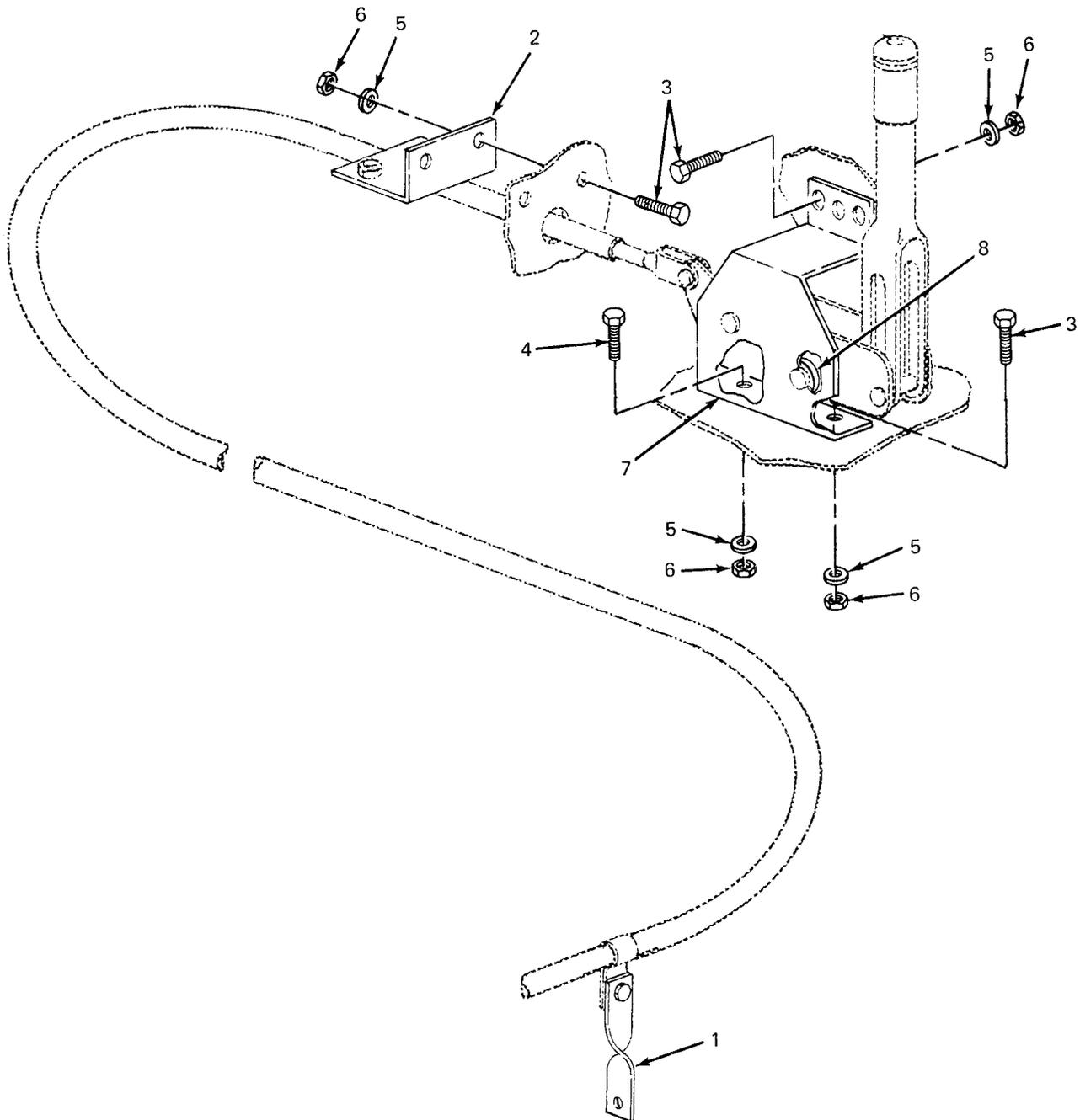


Figure D-8. Handbrakes.

## SECTION II

TMS-6115-626-14&amp;P

(1) ILLUS- TRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION	(6)	(7)	(8)	
A FIG NO.	B ITEM NO.	A ARMY	B AIR FORCE	C NAVY	D USMC	A SSI	B REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
									03 - HANDBRAKES				
D-8	1	XBOZZ						6115-01-876-2084	STRAP,BRAKE CABLE 13214E1271 97403		EA	2	
D-8	2	XBOZZ						5430-00-761-7280	BRACKET,BRAKE CABLE 13214E1270 97403		EA	2	
D-8	3	PAOZZ						5306-00-225-8499	SCREW,CAP,HEX MS90725-34 96906		EA	10	
D-8	4	PAOZZ						5306-00-225-8500	SCREW,CAP,HEX NS90725-35 96906		EA	2	
D-8	5	PAOZZ						5310-00-081-4219	WASHER,FLAT MS27183-12 96906		EA	20	
D-8	6	PAOZZ						5310-00-984-3806	NUT,SELF-LOCKING MS51922-9 96906		EA	12	
D-8	7	XBOZZ						5340-01-226-5766	BRACKET,BRAKE 13214E1269 97403		EA	2	
D-8	8	XBOZZ						5365-00-989-3304	SPACER 13214E1272 97403		EA	4	

CHANGE 2

D-27

SECTION III. SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT

NOT APPLICABLE

SECTION IV. NATIONAL STOCK NUMBER AND REFERENCE NUMBER INDEX

NSN	FIGURE NO.	ITEM NO.	NSN	FIGURE NO.	ITEM NO.
2330-01-150-9864	D-4	1	5310-00-081-4219	D-6	4
2450-00-903-3503	D-3	1	5310-00-081-4219	D-8	5
2510-00-926-3517	D-7	2	5310-00-087-4652	D-2	4
2510-01-H73-0729	D-5	5	5310-00-087-4652	D-5	4
2510-01-H73-0794	D-5	6	5310-00-087-7493	D-3	5
2510-01-195-4273	D-6	2	5310-00-088-1251	D-2	10
2510-01-196-4682	D-4	2	5310-00-225-6993	D-7	10
2510-01-213-3242	D-6	1	5310-00-269-4040	D-1	5
4210-00-223-4857	D-2	5	5310-00-584-7995	D-2	13
4730-00-908-3193	D-2	21	5310-00-809-4058	D-2	9
5304-00-914-2578	D-2	11	5310-00-809-5998	D-7	9
5305-00-042-6417	D-7	8	5310-00-809-8533	D-7	4
5305-00-068-0502	D-2	8	5310-00-823-8803	D-1	4
5305-00-225-9081	D-4	6	5310-00-984-3806	D-4	5
5305-00-253-5615	D-2	20	5310-00-984-3806	D-5	9
5305-00-269-3210	D-2	2	5310-00-984-3806	D-6	5
5305-00-269-3213	D-5	2	5310-00-984-3806	D-8	6
5305-00-724-7222	D-1	2	5310-00-985-3806	D-3	6
5305-00-939-9204	D-7	3	5310-00-185-0586	D-1	3
5305-00-984-5691	D-2	6	5320-00-753-3830	D-3	3
5306-00-225-8498	D-3	4	5325-00-290-1960	D-2	22
5306-00-225-8499	D-4	3	5340-00-087-7676	D-7	6
5306-00-225-8499	D-5	7	5340-00-975-2126	D-3	2
5306-00-225-8499	D-8	3	5340-00-999-6277	D-2	7
5306-00-225-8500	D-6	3	5340-00-999-6441	D-7	7
5306-00-225-8500	D-8	4	5340-01-875-8820	D-5	1
5306-00-225-8503	D-4	7	5340-01-156-6142	D-7	1
5307-00-227-1741	D-2	17	5340-01-226-5766	D-8	7
5310-00-004-9129	D-2	12	5365-00-944-2692	D-4	8
5310-00-004-9129	D-2	14	5365-00-945-5998	D-4	10
5310-00-022-8847	D-2	16	5365-00-989-3304	D-8	8
5310-00-026-5824	D-2	15	5430-00-761-7280	D-8	2
5310-00-067-6356	D-7	5	5940-00-115-4992	D-2	24
5310-00-080-6004	D-2	3	6115-00-118-1240	D-1	1
5310-00-080-6004	D-5	3	6115-01-876-2084	D-8	1
5310-00-081-4219	D-4	4	6145-00-395-8799	D-2	25
5310-00-081-4219	D-5	8	9905-01-085-7703	D-2	18

SECTION IV. NATIONAL STOCK NUMBER AND REFERENCE NUMBER INDEX (CONT)

REFERENCE NUMBER	FSCM	FIG. NO.	ITEM NO.	REFERENCE NUMBER	FSCM	FIG. NO.	ITEM NO.
AN961-616S	88044	D-2	14	MS90725-34	96906	D-4	3
MEP-005A	30554	D-1	1	MS90725-34	96906	D-5	7
MS16203-27	96906	D-2	13	MS90725-34	96906	D-8	3
MS16203-39	96906	D-2	15	MS90725-35	96906	D-6	3
MS18015-1	96906	D-3	2	MS90725-35	96906	D-8	4
MS20613-4P5	96906	D-3	3	MS90725-36	96906	D-4	6
MS20659-110	96906	D-2	24	MS90725-39	96906	D-4	7
MS21318-21	96906	D-2	20	MS90725-6	96906	D-2	8
MS27183-10	96906	D-2	9	MS90725-62	96906	D-2	2
MS27183-12	96906	D-4	4	MS90725-62	96906	D-5	2
MS27183-12	96906	D-5	8	QQ-W-343	81348	D-2	25
MS27183-12	96906	D-6	4	ZZ-H-428	81348	D-2	23
MS27183-12	96906	D-8	5	13205E4918	97403	D-2	18
MS27183-13	96906	D-3	5	13206E4482-3	97403	D-1	3
MS27183-14	96906	D-2	3	13214E1213-1	97403	D-2	11
MS27183-14	96906	D-5	3	13214E1214	97403	D-2	7
MS27183-18	96906	D-7	9	13214E1223	97403	D-2	17
MS27183-21	96906	D-1	4	13214E1235	97403	D-2	5
MS27183-23	96906	D-7	4	13214E1256	97403	D-3	1
MS35206-311	96906	D-2	6	13214E1259	97403	D-5	6
MS35333-110	96906	D-2	16	13214E1261	97403	D-5	5
MS35425-28	96906	D-2	12	13214E1263	97403	D-6	2
MS35489-27	96906	D-2	22	13214E1264	97403	D-6	1
MS35842-12	96906	D-2	21	13214E1267-1	97403	D-4	8
MS51922-1	96906	D-2	10	13214E1267-2	97403	D-4	10
MS51922-17	96906	D-2	4	13214E1268	97403	D-4	9
MS51922-17	96906	D-5	4	13214E1269	97403	D-8	7
MS51922-33	96906	D-7	10	13214E1270	97403	D-8	2
MS51922-49	96906	D-1	5	13214E1271	97403	D-8	1
MS51922-57	96906	D-7	5	13214E1272	97403	D-8	8
MS51922-9	96906	D-3	6	13214E1298	97403	D-7	2
MS51922-9	96906	D-4	5	13214E1299	97403	D-7	6
MS51922-9	96906	D-5	9	13214E1300	97403	D-7	7
MS51922-9	96906	D-6	5	13214E1303	97403	D-7	1
MS51922-9	96906	D-8	6	13214E1309-1	97403	D-5	1
MS53052-1	96906	D-2	1	13214E1461	97403	D-4	1
MS90725-113	96906	D-7	8	13214E1462	97403	D-4	2
MS90728-164	96906	D-1	2	13214E1463	97403	D-4	11
MS90725-187	96906	D-7	3	13216E7604-38	97403	D-2	19
MS90725-33	96906	D-3	4				

SECTION V. REFERENCE DESIGNATOR INDEX

NOT APPLICABLE



**By Order of the Secretary of the Army:**

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

**Official:**

**R. L. DILWORTH**  
*Brigadier General, United States Army*  
*The Adjutant General*

DISTRIBUTION:

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





THEN... JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL!

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)  
**PFC JOHN DOE**  
**COA, 3d ENGINEER BN**  
**FT. LEONARDWOOD, MD 63108**  
 DATE SENT

PUBLICATION NUMBER  
 TM 5-6115-626-14&P

PUBLICATION DATE  
 31 May 1988

PUBLICATION TITLE  
 POWER UNIT PU-406B/M (NSN 6115-00-394-9576)

BE EXACT... PIN-POINT WHERE IT IS

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
6	2-1 a		
B1		4-3	
125	line 20		

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

In line 6 of paragraph 2-1a the manual states the engine has 6 Cylinders. The engine on my set only has 4 Cylinders. Change the manual to show 4 Cylinders.

Callout 16 on figure 4-3 is pointing at a bolt. In key to figure 4-3, item 16 is called a shim - Please correct one or the other.

I ordered a gasket, item 19 on figure B-16 by NSN 2 910-00-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER  
**JOHN DOE, PFC (268) 317-7111**

SIGN HERE **John Doe**  
**JOHN DOE**

TEAR ALONG PERFORATED LINE

FILL IN YOUR  
UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE \$300

POSTAGE AND FEES PAID  
DEPARTMENT OF THE ARMY  
DOD 314



TEAR ALONG PERFORATED LINE

COMMANDER  
U S ARMY TROOP SUPPORT COMMAND  
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ST. LOUIS, MO 63120-1798



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4300 GOODFELLOW BOULEVARD  
ST. LOUIS, MO 63120-1798

# The Metric System and Equivalents

## Linear Measure

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 dekameter = 10 meters = 32.8 feet  
 1 hectometer = 10 dekameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

### Weights

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigrams = .035 ounce  
 1 dekagram = 10 grams = .35 ounce  
 1 hectogram = 10 dekagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short, tons

## Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

### Square Measure

1 sq. centimeter = 100 sq. millimeters = 155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet  
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

### Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

## Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

## Temperature (Exact)

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