

TECHNICAL MANUAL

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

**POWER UNIT
PU-732/M (NSN 6115-00-260-3082)
MEP-113A 15 KW 400 HZ GENERATOR SET
M200A1 2-WHEEL, 4-TIRE, MODIFIED
TRAILER**

Approved for public release; distribution is unlimited.

* This manual supersedes Chapter 4 of TM 5-6115-594-14&P dated 25 September 1984.

HEADQUARTERS, DEPARTMENT OF THE ARMY
15 FEBRUARY 1990

CHANGE

NO 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 5 August 1991

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*Brigadier General, United States Army
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**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 DRY WOODEN POLE OR A DRY
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 moving parts. Do not attempt to service or otherwise make any adjustments, connections or reconnections 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 power unit while refueling generator set.

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 (PD-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).

TECHNICAL MANUAL
NO 9-6115-653-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 15 February 1990

**Operator, Unit, Direct and General Support Maintenance Manual
(Including Repair Parts and Special Tools Lists)
for
POWER UNIT, PU-732/M
(NSN 6115-00-260-3082)
MEP-113A 15 KW 400 HZ GENERATOR SET
M200A1 2-WHEEL, 4-TIRE, MODIFIED TRAILER**

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*This manual supersedes Chapter 4 of TM 5-6115-594-14&P dated 25 September 1984.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. **Scope.** This manual is for your use in operating and maintaining the Power Unit, PU-732/M. The PU-732/M is a mobile power unit used to supply power to any system or equipment requiring up to 15 KW of 400 Hz input operating power. In addition to operating Instructions and operator, unit, and direct and general support maintenance procedures, this manual contains a Repair Parts and Special Tools List for the power unit.

1-2. **Maintenance Forms and Records.** Maintenance forms and records used by Army personnel are prescribed by DA Pam 738-750.

1-3. **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 on a DA Form 2028 directly to Commander, US Army Troop Support Command, ATTN AMSTR-MCTS, 4300 Goodfellow Boulevard, St Louis, MO, 63120-1798.

1-4. **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.

1-5. **Levels of Maintenance Accomplishment.** Army users shall refer to the Maintenance Allocation Chart (MAC) for tasks and levels of maintenance to be performed.

1-6. **Destruction of Army Materiel.** Destruction of Army materiel to prevent enemy use shall be in accordance with TM 750-244-3.

1-7. Administrative Storage.

a. Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance effort exists. Items should be in mission readiness within 24 hours or within the time factors as determined by the directing authority. During the storage period appropriate maintenance records will be kept.

b. Before placing equipment in administrative storage, current maintenance services and equipment serviceable criteria (ESC) evaluations should be completed, shortcomings and deficiencies should be corrected, and all modification work orders (MWO's) should be applied.

c. Storage site selection. Inside storage is preferred for items selected for administrative storage. If inside storage is not available, trucks, vans, conex containers and other containers may be used.

1-8. **Preparation for Shipment and Storage.** Refer to TB 740-97-2.

Section II. DESCRIPTION AND DATA

1-9. **Description.** Power Unit PU-732/M (figures 1 1 and 1-2) is made up of one Precise Power Generator Set, DOD Model MEP-1 13A, mounted on a modified M1200A1 trailer. The generator set is a liquid-cooled diesel engine-driven unit with a load capacity of 15 KW at 400 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.

1-10. **Tabulated Data.** The tabulated data provides operator and unit level personnel with the dimensions and weights for Power Unit, PU-732/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-1 13A, refer to TM 5-6115-464-12 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 Plates.

(1) Identification plate.

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

(b) Content.

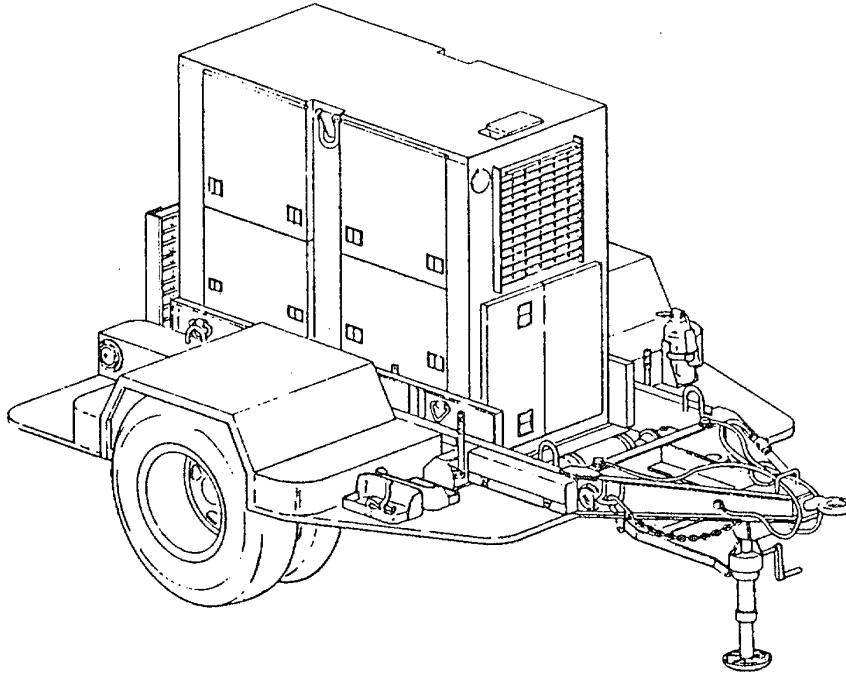
US
POWER UNIT
PU 732/M
KW 15
HERTZ 400
NSN 6115-00-260-3082

(2) Instruction plate.

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

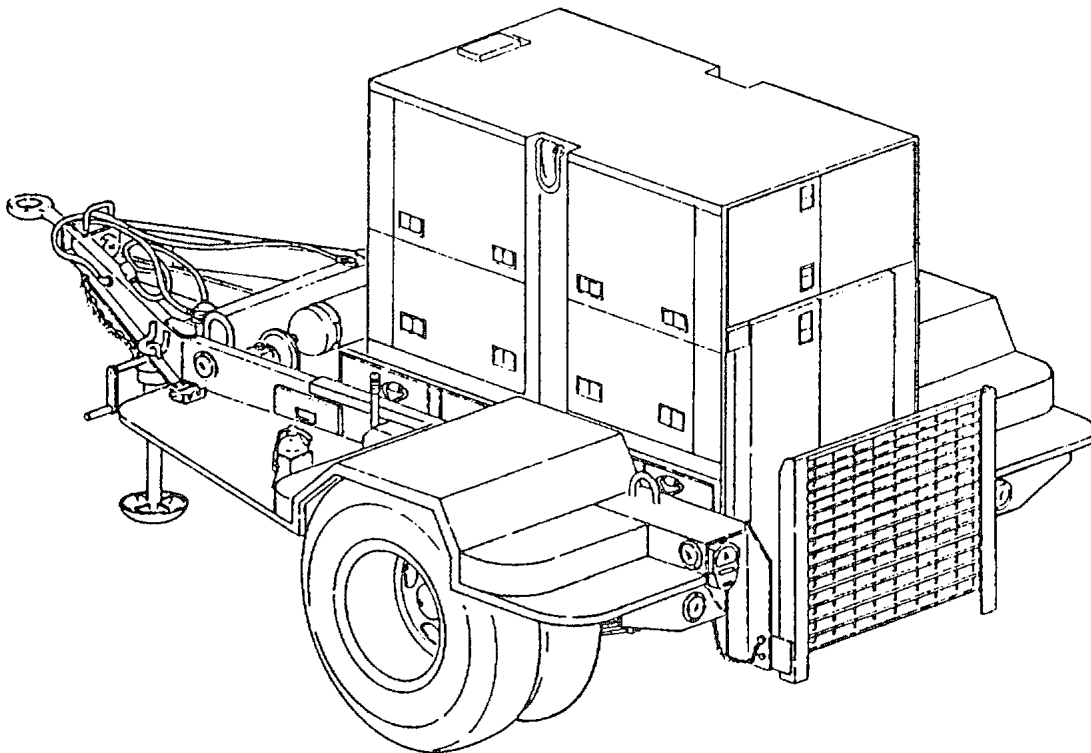
(b) Content.

GROUND TERMINAL



4885-001

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



4885-002

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

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)	1179.3 (kilograms)
Net Weight (filled)	1250.5 (kilograms)
Shipping Weight	1341.27 (kilograms)
Cubage	788 cubic feet (22 3 cubic meters)

1-11. **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. **Power Unit Operating Procedures.** The typical mission for any mobile power generating equipment can be described in three steps or phases. In the first phase, the power unit is towed to the worksite and installed by unit level technicians (paragraph 4-2). In the second phase of the mission, the operator starts the generator set, runs it to power a system or equipment, and eventually shuts it down. In the final phase, the power unit is dismantled, packed up and either moved to a new worksite or returned to standby status (paragraph 4-3). This final phase is also accomplished by unit level technicians.

a. Generator Set Operating Procedures.

WARNING

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

CAUTION

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

NOTE

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

Detailed procedures for prestarting, starting, operating, and shutting down the power unit generator set is found in TM 5-6115-464-12 and on the Operating Instruction data plate found on the equipment. Refer to the data plate, located inside the right hand control panel door, to start and run the generator set. Monitor and adjust power output as required during operation. At the end of the mission, shut down generator set in accordance with operating instructions on the data plate.

b. Trailer Operating Procedures. Refer to TM 9-2330-205-14&P for specific operating procedures for the M200A1 trailer.

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 5-6115-464-12 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) Component application	(2) National stock number	(3) Description	(4) Qty req. for initial operation	(5) Qty req. 8 hrs. operation	(6) Notes
General Cleaning	6850-00-664-5685	Solvent, Drycleaning, PD-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 25-30 to ensure the latest editions of the LO's are used.

3-3. **Generator Lubrication.** Refer to TM 5-6115-464-12 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. 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 to be done and explains how to do them.
- e. 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 PD-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 PD-680, get fresh air immediately and get medical aid. If PD-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 PD-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 11) of any fluid except fuel. Of course, consideration must be given to the fluid capacity in the item being checked/inspected. When In doubt, notify your supervisor.

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

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

NOTE

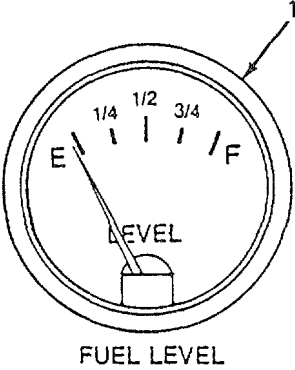
If the equipment must be kept in continuous operation, check and service only those items that can be checked and serviced without disturbing operation. Make the complete checks and services when the equipment can be shut down.

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

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

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;"><u>WARNING</u></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;">NOTE</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, or If you are operating the equipment for the first time.</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		
2	*					<p>GENERATOR SET EXTERIOR</p> <p>a Check on, around, and beneath generator set for fuel or oil and coolant leaks leak is detected.</p> <p>b Check that generator set ground is properly installed and grounding connections are tight.</p> <p>c Manually open and close radiator louvers to check for proper operation.</p> <p>FUEL GAGE</p> <p>Check fuel gage (1) for sufficient fuel for continuous operation.</p>  <p>FUEL LEVEL</p>	<p>A Class III coolant or lubrication oil leak or any class fuel.</p> <p>Not properly grounded</p>

4885-003

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

B—BEFORE

D—DURING

A—AFTER

W—WEEKLY

M—MONTHLY

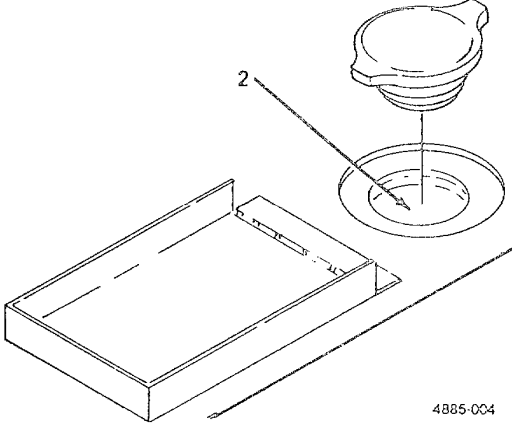
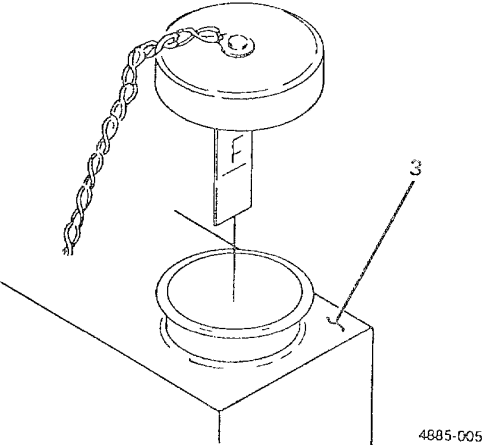
ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	W	M		
3	•					<p>COOLANT LEVEL</p> <p>Check coolant level (2) Proper level is two inches below the overflow pipe. Add coolant as required.</p>  <p>4885-004</p>	If coolant is below proper coolant level
4	•					<p>HYDRAULIC FLUID LEVEL</p> <p>Check level of fluid in hydraulic sump (3).</p>  <p>4885-005</p>	If hydraulic fluid is below the full mark.

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

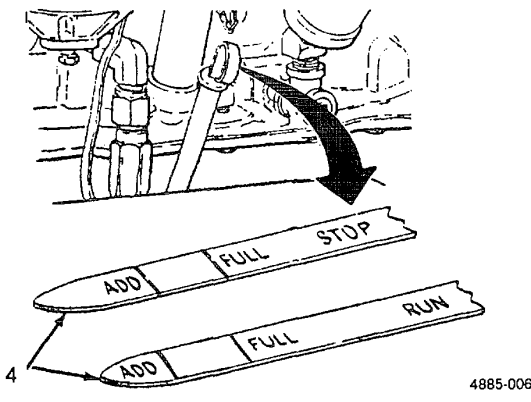
ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	W	M		
5		*				<p>ENGINE OIL LEVEL</p> <p>Check oil filler dipstick (4) for proper oil level Add oil as required</p>  <p>4885-006</p>	If engine oil is at or below ADD mark
6		*				<p>ACCESSORIES</p> <p>Check that the following accessories are not missing</p> <ul style="list-style-type: none"> a Sledge hammer b Fire extinguisher c Slide hammer d Ground rods e Fuel Drum Adapter 	<p>Fire extinguisher is missing</p> <p>Ground rods are missing</p>
7		*				<p>BRACKETS</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

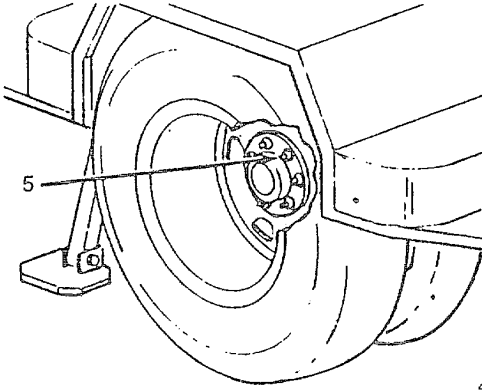
ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	W	M		
8	*					<p>TIRES</p> <p>a Check for cuts, foreign objects, or unusual tread wear Remove any stones from between the treads</p> <p>b Check that tire pressure is 35 psi (241 22 kPa) when tires are cool</p>	One tire is flat, missing, or unserviceable
9	*					<p>WHEELS</p> <p>Check for wheel damage and loose or missing stud nuts (5)</p>  <p style="text-align: right;">4885-007</p>	One wheel is damaged One stud nut is loose or missing
10	*					<p>LUNETTE</p> <p>Check lunette (6) for Insecure mounting and obvious damage</p>	Lunette is loose or bent
11	*					<p>INTERVEHICULAR CABLE</p> <p>Check cable (7) 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).

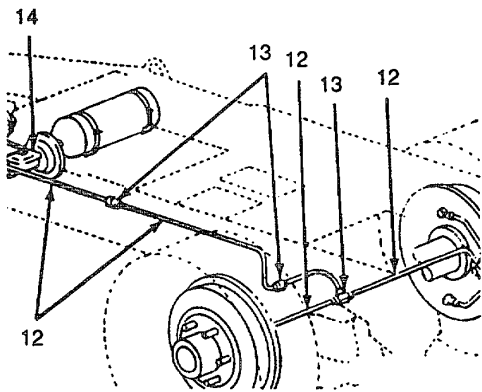
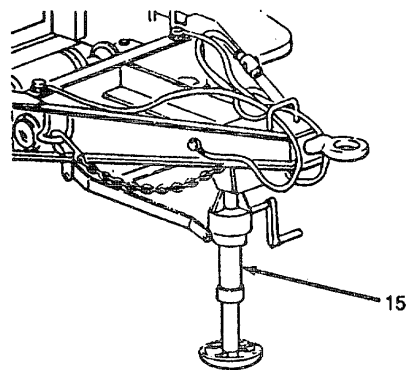
ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	W	M		
	B—BEFORE D—DURING A—AFTER W—WEEKLY M—MONTHLY						
14	*					<p>HYDRAULIC HOSES, FITTINGS AND MASTER CYLINDER</p> <p>Check brake system hoses (12) and fittings (13) and master cylinder (14), and check under vehicle for signs of brake fluid leaks</p>  <p style="text-align: right;">4885-010</p>	A class III brake fluid leak is detected.
15	*					<p>LANDING LEG</p> <p>Check condition of landing leg (15)</p>  <p style="text-align: right;">4885-011</p>	There is indication that leg might collapse

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

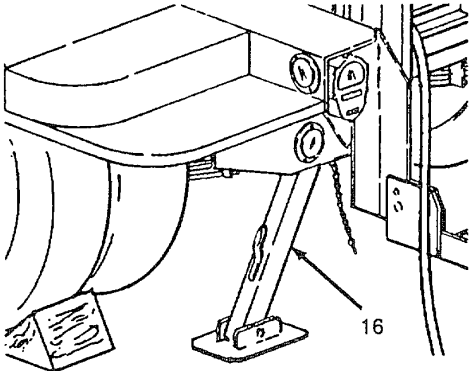
ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	W	M		
16	*					<p>LEVELING JACK</p> <p>Check condition of leveling jack (16)</p>  <p style="text-align: right;">4885-012</p>	There Is Indication that a jack might collapse
17	*					<p>LIGHTS</p> <p>a With Intervehicular cable connected to towing vehicle, operate vehicle light switch through all settings and check lights (17)</p> <p>NOTE</p> <p>An assistant is required while checking brake lights</p> <p>b Step on brake pedal and check brake lights (17)</p>	<p>Taillights fail to operate properly</p> <p>Brake lights fail to operate properly</p>

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

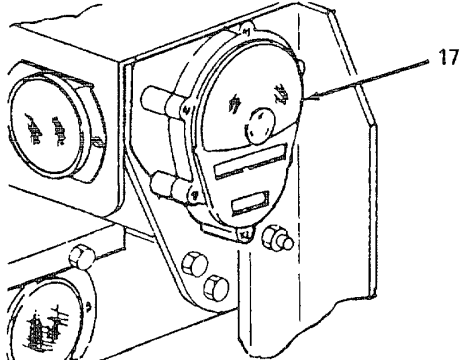
ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	W	M		
17	*					<p>LIGHTS (cont)</p>  <p>4885-013</p>	
18	*					<p>BRAKE SYSTEM</p> <p>Test brake system by hooking trailer to towing vehicle and applying brakes</p>	Service brakes fail to operate
19	*					<p>TRAILER OPERATION</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>	
20		*				<p>GENERATOR SET GAGES AND INSTRUMENTS</p> <p>a Check that air cleaner condition Indicator (18) does not Indicate a clogged air cleaner Press-to-test</p> <p>b Check that battery charging ammeter (1 9) 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

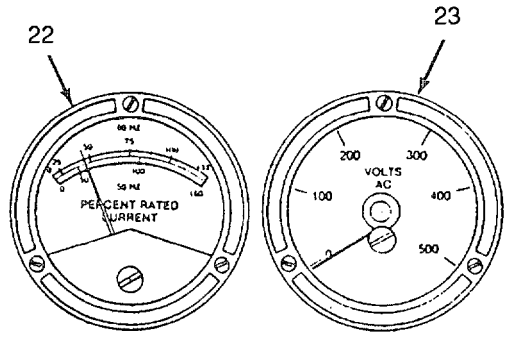
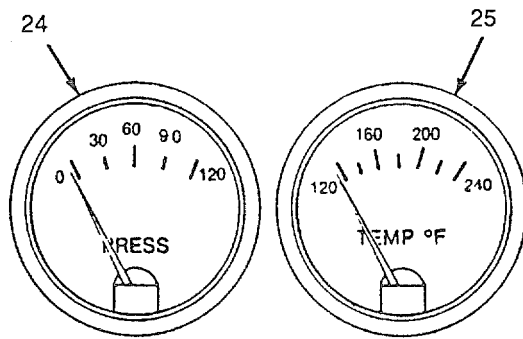
ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	W	M		
20		•				<p>GENERATOR SET GAGES AND INSTRUMENTS (cont)</p> <p>f. Check that A C voltmeter (23) Indicates desired output voltage as determined by load connections and amps-volts selector switch</p>  <p style="text-align: center;">4885-016</p> <p>g. Check engine oil pressure gage (24) for 20 to 55 psig indication</p> <p>h. Check coolant temperature gage (25) for 170° to 200°F (76 70 to 93 30C) Indication</p>  <p style="text-align: center;">OIL PRESSURE COOLANT TEMPERATURE 4885-017</p>	<p>Desired voltage cannot be obtained and maintained</p> <p>Oil pressure drops below 20 psig</p> <p>Temperature exceeds 200°F (93 3°C)</p>

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

B—BEFORE D—DURING A—AFTER

W—WEEKLY

M—MONTHLY

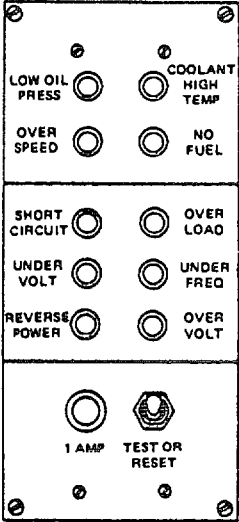
ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	W	M		
20		•				<p>GENERATOR SET GAGES AND INSTRUMENTS (cont)</p> <p>i Check that all lights on FAULT INDICATOR panel (26) are out during operation Check bulb operation with TEST or RESET switch on panel</p>  <p style="text-align: right;">4885-018</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>
21			•			<p>FUEL TANK</p> <p>a. Fill set tank 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 (27) and drain water and sediment from fuel tank into a suitable container 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

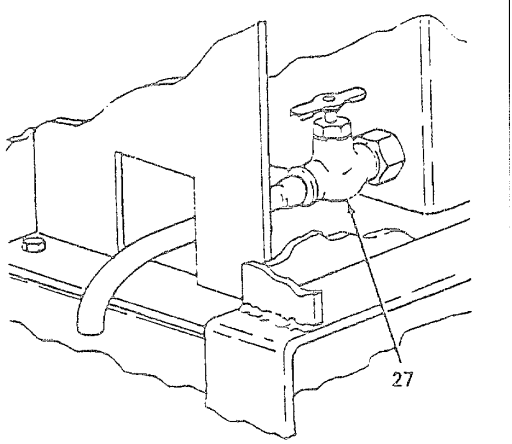
ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	W	M		
21			•			<p>FUEL TANK (cont)</p>  <p>4885-019</p>	
22			•			<p>DAY TANK</p> <p>NOTE</p> <p>Fuel system temperature must be above freezing when draining water and sediment</p> <p>Open drain (28) and drain -water and sediment from day tank into a suitable container 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

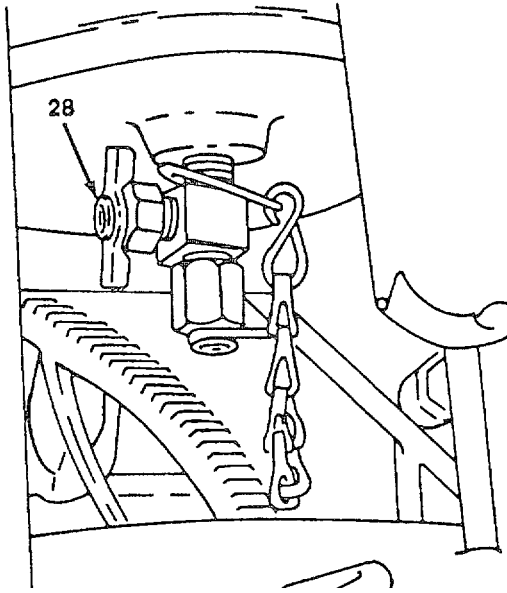
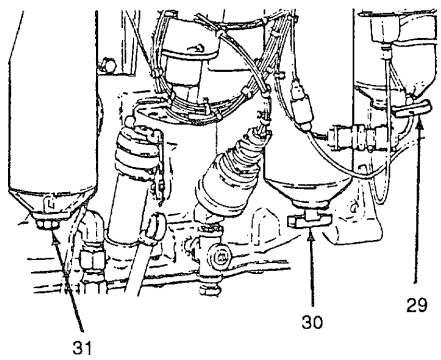
ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	W	M		
22			•			<p>DAY TANK (cont)</p>  <p>4885-049</p>	
23			•			<p>FUEL STRAINER AND FILTERS</p> <p>Drain water and sediment from strainer (29), primary (30) and secondary (31) filters into a suitable container 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

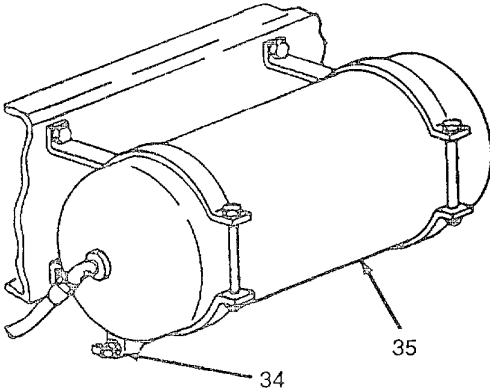
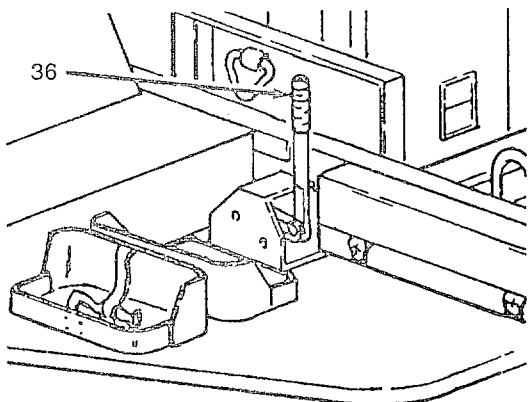
ITEM NO.	INTERVAL					ITEM TO BE INSPECTED PROCEDURE: CHECK FOR AND HAVE REPAIRED, FILLED, OR ADJUSTED AS NEEDED	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	W	M		
27			•			<p>AIR RESERVOIR (cont)</p>  <p>4885-022</p>	
28			•			<p>HANDBRAKES</p> <p>With trailer hooked to towing vehicle, set handbrakes (36) Move trailer slightly to see if handbrakes hold wheels Adjust as required</p>  <p>4885-023</p>	Handbrakes cannot be adjusted

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

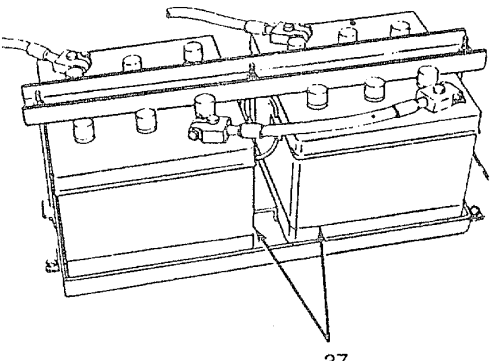
B—BEFORE

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		
29				•		REFLECTORS Check for damaged or missing reflectors	
30				•		BATTERIES Check battery (37) 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)  4885-024	
31				•		FIRE EXTINGUISHER a inspect seal for damage Inspect gage to see If extinguisher needs recharging b. inspect and weigh fire extinguisher (See paragraph 3-11)	
32				•		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 generator set and trailer are contained In their respective technical 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 9-2330-205-1 4&P for troubleshooting procedures applicable to the trailer.

Section V. OPERATOR/CREW MAINTENANCE

3-11. **Fire Extinguisher Maintenance.** The PU-732/M Power Unit is equipped with a 5 lb CO₂ 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 lb. Send the unit to specialized activity for recharging if it weighs 12.5 lb or less.

CAUTION

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

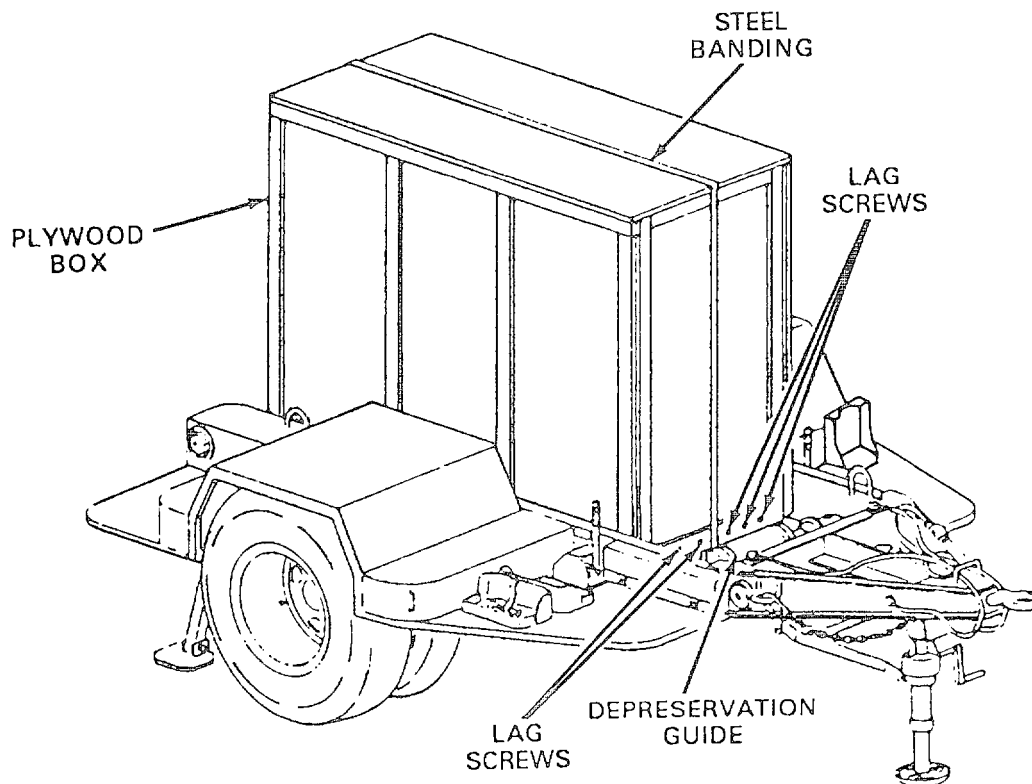
CHAPTER 4

UNIT MAINTENANCE

Section I. SERVICE UPON RECEIPT OF EQUIPMENT

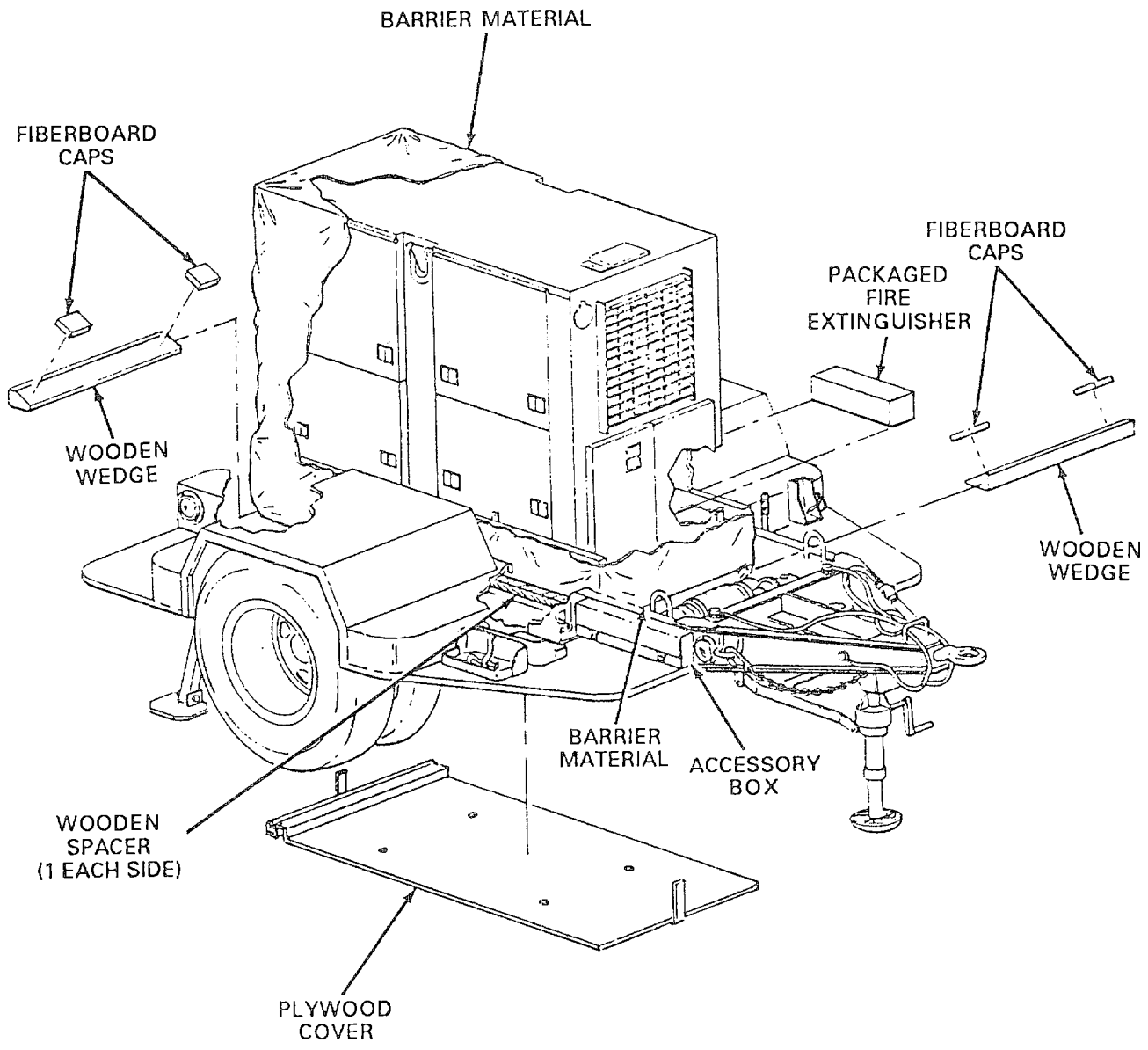
4-1 Inspecting and Servicing Equipment. The power unit is unpacked, inspected, and serviced as described in the following paragraphs. Unpacked equipment must be checked against the Equipment Packing List to insure completeness. Discrepancies must be reported in accordance with instructions in DA Pam 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



4885-025

Figure 4-1. Power Unit Packed for Shipment.



4885-026

Figure 4-2. Unpacking Power Unit.

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 into service.
- (10) Stow technical manuals in box on inside of generator set enclosure rear curbside door.
- (11) Stow all authorized accessories in the accessory box.

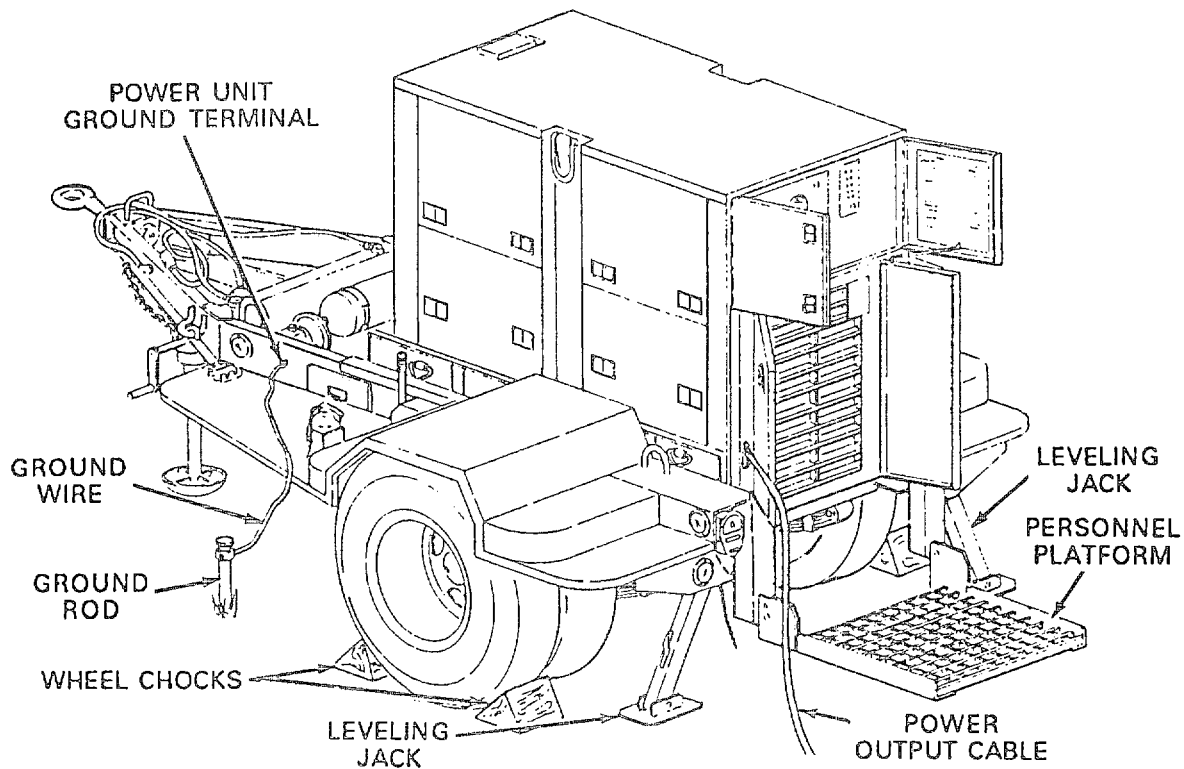
b. Inspection and Servicing of Generator Set. Refer to Service Upon Receipt of Materiel In TM 5-6115-464-12 for initial inspection and servicing procedures.

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

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 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



4885-027

Figure 4-3. Installing Power Unit.

WARNING

Remove fire extinguishers 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 5-6115-464-12 and generator set load terminal board data plate.

(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 good ground are listed in order of preference.

NOTE

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

- (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.
- (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.

NOTE

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

- (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. (See figure 4-4) 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.

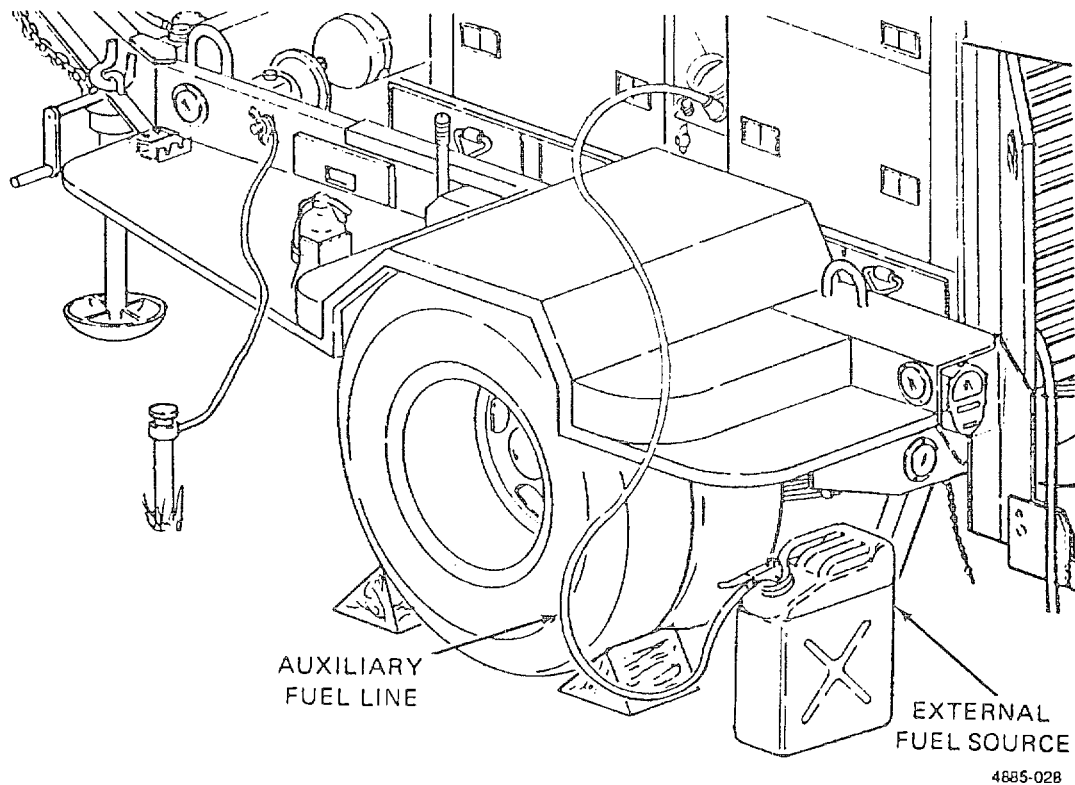


Figure 4-4. External Fuel Line Connection.

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 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-732/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 25-30 to ensure that the latest editions of the L O 's are used. This section contains lubrication instructions that are not included in the Lubrication Orders.

4-8 **Generator Lubrication.** Refer to TM 5-6115-464-12 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 (PD-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 PD-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 or annually. Unit PMCS on the generator set is scheduled monthly or on a per-hours-of-operation basis. The running time meter on the control panel is used to determine the operating time of the generator set. 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 monthly (M) PMCS every month or 100 hours of generator set operating time.
- c. Do your semiannual (S) PMCS once every six months or 500 hours of generator set operating time.
- d. Do your annual (A) PMCS once every twelve months or 1000 hours of generator set operating time.
- 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.

4-11 **Explanation Of Columns.** The following is a list of the PMCS table column headings with a description of the information found in each column.

a. Item No. This column shows the sequence in which to do the checks and services, and is used to identify the equipment area on the Equipment Inspection and Maintenance Worksheet, DA Form 2404.

b. Interval. This column shows when each check is to be done.

c. 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 service you have to do and explains how to do them.

4-12. **Reporting Deficiencies.** If you discover any problem with the equipment during PMCS that you are unable to correct, It must be reported Refer to DA Pam 738-750 and report the deficiency using the proper forms

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

H - Hours of operation
(As indicated)

M - Monthly
(100 hours)

S - Semiannually
(500 hours)

A - Annually
(1,000 hours)

ITEM NO.	INTERVAL				ITEM TO BE INSPECTED	PROCEDURES
	H	M	S	A		
1			•		Generator Set Exterior	<p>WARNING</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>Inspect generator set for fuel and oil leaks, loose or missing components and hardware, and unusual wear or deterioration Clean generator set</p>
2			•		Fuel Strainer and Filters	<p>NOTE</p> <p>Fuel system must be above freezing temperature when draining water and sediment from strainer, filters, and tank</p> <p>Open drains on fuel strainer, and primary and secondary fuel filters Drain water and sediment into a suitable container Allow to drain until fuel runs clean</p>
3			•		Fuel Tanks	<p>Open drains on main fuel tank and day tank Drain water and sediment Into a suitable container Allow to drain until fuel runs clean</p>

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

**H - Hours of operation
(As indicated)**

**M - Monthly
(100 hours)**

**S - Semiannually
(500 hours)**

**A - Annually
1,000 hours)**

ITEM NO.	INTERVAL				ITEM TO BE INSPECTED	PROCEDURES
	H	M	S	A		
4			•		Fuel Pumps	Clean or replace, as necessary, fuel strainer in bottom of fuel pump
5		•			Batteries	Perform a hydrometer test on batteries every 100 hours Refer to TM 5-6115-464-12 for test procedures
6		•			V-Belts	Inspect for worn, frayed, oil soaked, or cracked belts Check adjustment Proper adjustment for fan belt is a deflection of 1/2 inch with application of 12-14 lb pressure midway between alternator and water pump pulley
7		•			Fuel Filters	Replace filter elements every 100 hours of operation
8	300				Fuel Strainer	Clean fuel strainer every 300 hours of operation
9	300				Lubricating Oil and Filter	Change lubricating oil and filter every 300 hours of operation or six months
10	•				Hydraulic Sump	Drain and refill (Refer to LO)
11	•				Hydraulic Filter	Replace filter (Refer to LO)
12	•				Hydraulic Actuator Screen	Clean filter (Refer to LO)
13	300				Breather and Breather Tube	Inspect for damage Clean breather and tube at oil change interval
14	AR				Air Cleaner	Clean air cleaner element whenever necessary as Indicated by air filter condition indicator light
15			•		Taillights	Replace any broken or cracked lenses or defective bulbs
16			•		Intervehicular	Check for cuts, breaks, frayed wires, or damaged Cable plug

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

H - Hours of operation
(As indicated)

M - Monthly
(100 hours)

S - Semiannually
(500 hours)

A - Annually
1,000 hours)

ITEM NO.	INTERVAL				ITEM TO BE INSPECTED	PROCEDURES
	H	M	S	A		
17			•		Lunette	Check security of mounting Inspect ring for excessive wear
18			•		Safety Chains	Inspect for broken links or missing chain(s)
19			•		Reflectors	Replace any cracked, broken, or missing reflectors
20			•		Data Plates and Markings	Make sure data plates are legible and securely mounted Replace illegible data plates
21			•		Landing Leg	Inspect landing leg and brace for bent or broken parts
22			•		Leveling Jacks	Inspect leveling jacks for bent or broken parts
23			•		Suspension Assemblies	a. Inspect shackles, bearings, pins, leaf springs and spring eyes for damage or broken parts b. Inspect mounting brackets for cracks or loose or missing hardware
24			•		Axle	a. Check for damaged axle tube b. Check for loose or missing U-bolts or nuts
25			•		Wheels and Tires	a. Check serviceability of tires as Indicated In TM 9-2610-200-24 b. Tighten wheel stud nuts to 450 to 500 ft-lb (611 to 678 Nom)
26			•		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 screw, retaining pins, springs, and clips for corrosion and wear c. Inspect hydraulic wheel cylinders for leaks d. Adjust brakes

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

H - Hours of operation
(As indicated)

M - Monthly
(100 hours)

S - Semiannually
(500 hours)

A - Annually
1,000 hours)

ITEM NO.	INTERVAL				ITEM TO BE INSPECTED	PROCEDURES
	H	M	S	A		
27					Wheel Bearings	Clean and repack wheel bearings
28					Hydraulic Brake Hoses and	Inspect for dents, cracks, loose connections and Fittings leaks
29					Air Hoses and Fittings	Inspect for dents, cracks, loose connections and leaks
30					Brake Master Cylinder	Check fluid level Fill to 1/2 Inch from top
31					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 Power Unit Troubleshooting. There are no troubleshooting procedures authorized at unit 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 5-6115-464-12 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 trailer.

Section VII. RADIO INTERFERENCE SUPPRESSION

4-14 General Methods Used to Attain Proper Suppression. Essentially, suppression is attained by providing a low resistance path to ground for stray currents. The methods used include shielding ignition and high-frequency wires, grounding the frame with bonding straps, and using filtering systems.

4-15 Radio Interference Suppression Components. All component parts on the power unit end item, whose primary or secondary function is radio interference suppression, are on the generator set. Refer to TM 5-6115-464-12 for location of radio interference suppression components

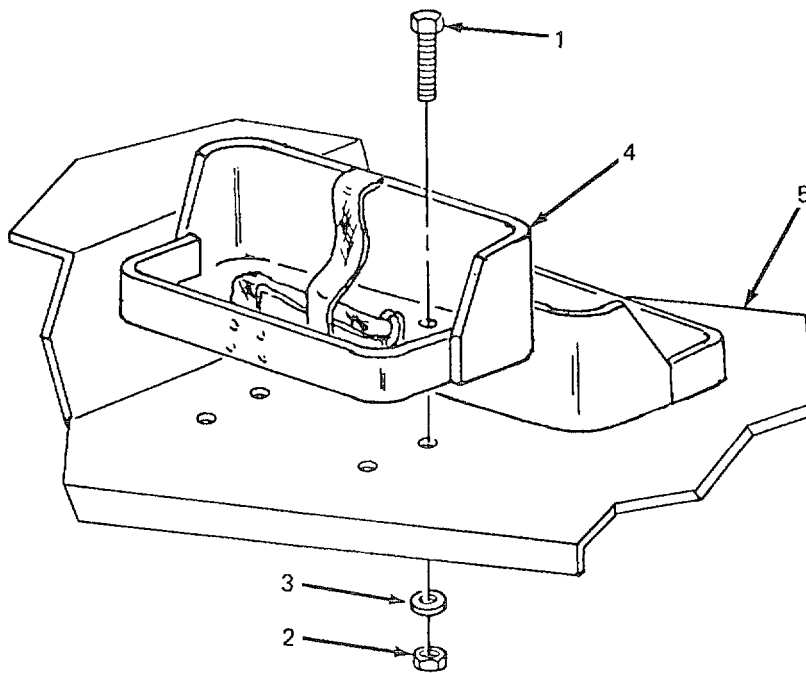
Section VIII. MAINTENANCE OF POWER UNIT TRAILER

4-16 **General.** This section of the manual contains unit level maintenance procedures for components of the M200A1 trailer added when the trailer is used as part of the PU-732/M power unit. These components are not covered in the overall trailer maintenance manual. For all other unit maintenance procedures on the trailer, refer to TM 9-2330-205-14&P. When power unit has been painted in camouflage, replacement parts must be painted to match authorized patterns and colors as specified in TB 43-0147. Application of camouflage paint shall be done in accordance with MIL-C-53072.

WARNING

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

4-17. **Fuel Can Bracket Replacement.** (See figure 4-5.) There are two fuel can brackets supplied with the PU-732/M. The brackets are mounted on top of the curbside front step. Replacement procedures described below are the same for both.



4885-029

Figure 4-5. Fuel Can Bracket Replacement

a. Removal.

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

b. Installation.

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

4-18. **Accessory Box Replacement.** (See figure 4-6). The accessory box is mounted to the trailer frame at the curbside front step.

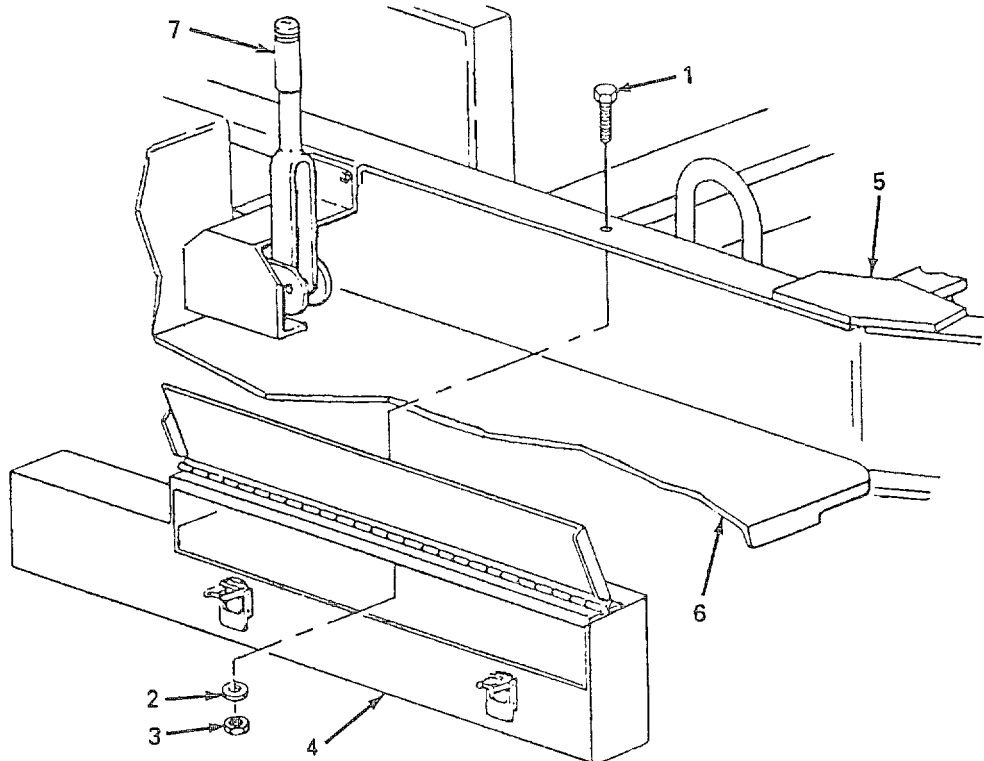


Figure 4-6. Accessory Box Replacement.

4885-030

a. Removal.

- (1) Remove three screws (1, figure 4-6), three flat washers (2) and three nuts (3) securing accessory box (4) to trailer frame (5).
- (2) Slide accessory box (4) forward and off front step (6).

b. Installation.

- (1) Position accessory box (4) on front trailer step (6) with narrow end between handbrake lever (7) and trailer frame (5).

- (2) Slide accessory box (4) so that top of box contacts lip of trailer frame (5).
- (3) Insert three screws (1) down through trailer frame (5) into accessory box (4).
- (4) Install one nut (3) and one washer (2) on each screw (1) and tighten.

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 front roadside step.

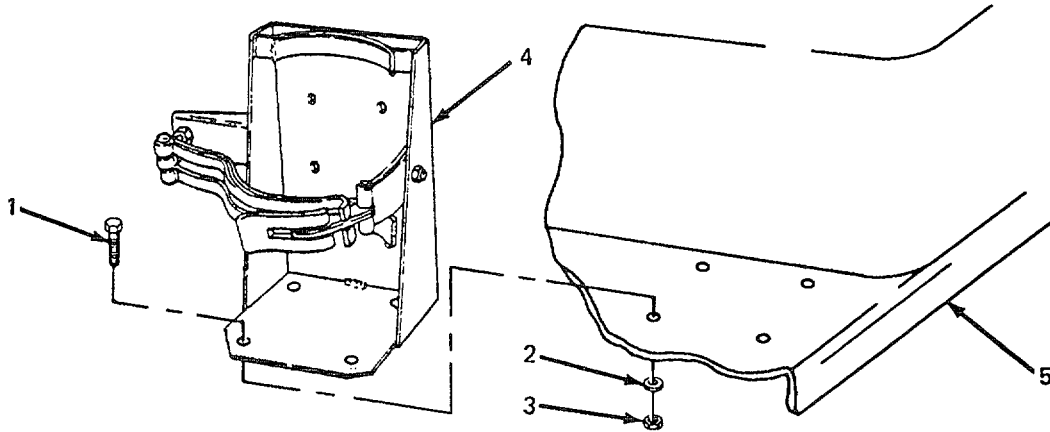


Figure 4-7. Fire Extinguisher Bracket Replacement.

4885-031

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 flat washer (2) and one nut (3) on each screw (1). Tighten hardware to secure bracket (4).

4-20 **Front Step 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 (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 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).
- (9) Remove three screws (28), three flat washers (29) and three nuts (30) securing front step (14) to trailer cross brace channels (31) and remove front step (14) and spacers (32) and (33).

b. **Installation.**

NOTE

Three different length 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.

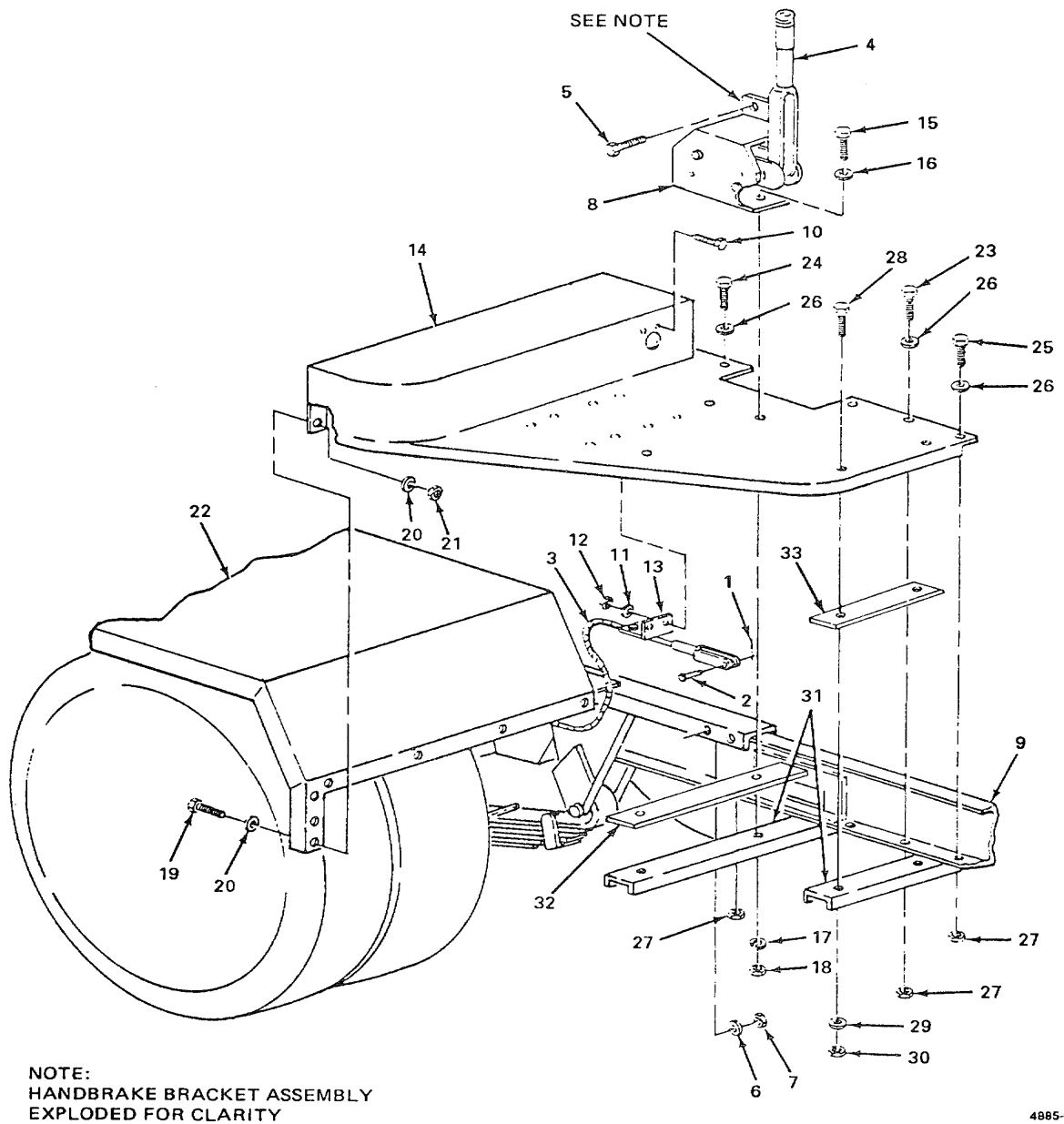


Figure 4-8. Front Step Replacement.

- (1) Position front step (14) and spacers (32) and (33) on cross brace channels (31) and trailer frame (9) insert cloves 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 brace channels (31)
- (4) Working under step, install one nut (30) on each screw (28) securing front step (14) to cross brace channels (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 channel (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 cloves on handbrake cable (3) on handbrake lever mechanism (4) Insert clevis pin (2) and secure with cotter pin (1)

NOTE

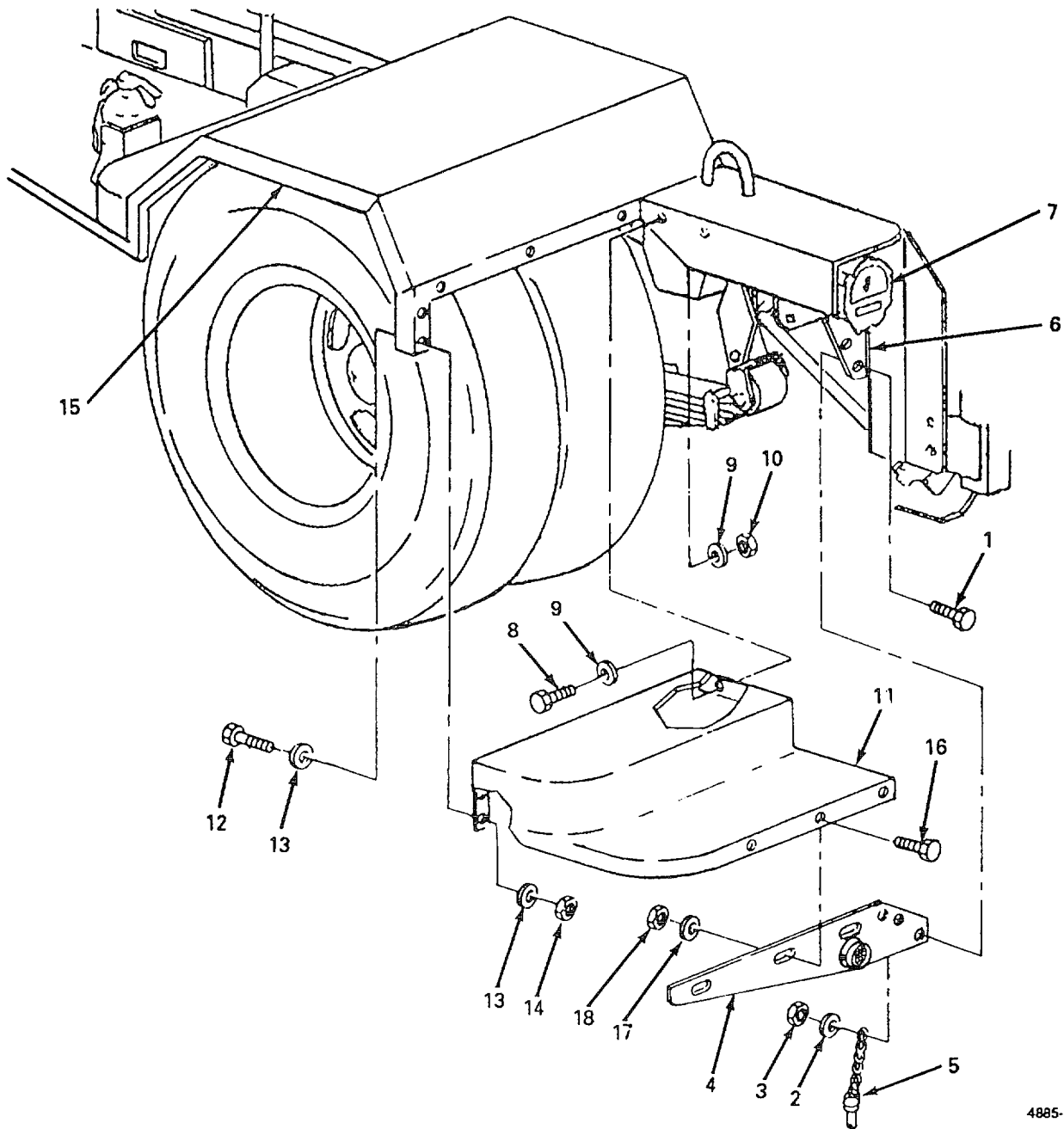
When installing roadside front step, omit steps (10) and (11)

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

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

a. Removal

- (1) Remove two screws (1, figure 4-9), two fiat washers (2) and two nuts (3) securing rear step bracket (4) and platform anchor (5) to trailer frame (6) under taillight (7)
- (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 tender (15) Remove rear step from trailer



4885-033

Figure 4-9. Rear Step and Bracket Replacement

NOTE

If rear step bracket (4) must be straightened or replaced, do step 4 Remove and retain reflector for installation on new or repaired rear step bracket

- (4) Remove three screws (16), three flat washers (17), and three nuts (18) Separate rear step bracket (4) from step (11)

b. Installation

- (1) If rear step bracket (4) and step (11) were separated during removal, alone bracket and step and install three screws (16), three flat washers (17), three nuts (18) and tighten
- (2) Position rear step (11) on trailer frame (6)
- (3) Secure rear step (11) to trailer frame (6) with two screws (8), four flat washers (9) and two nuts (10)
- (4) Secure rear step (11) to fender (15) with five screws (12), ten flat washers (13) and five nuts (14)
- (5) Alone two mounting holes in rear step bracket (4) with holes in trailer frame (6) under taillight (7) and insert two screws (1)
- (6) Slide S-hook at chain end of platform anchor (5) onto threaded end of lower screw (1) inside trailer frame (6).
- (7) Install one flat washer (2) and one nut (3) on each screw (1) and tighten

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

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

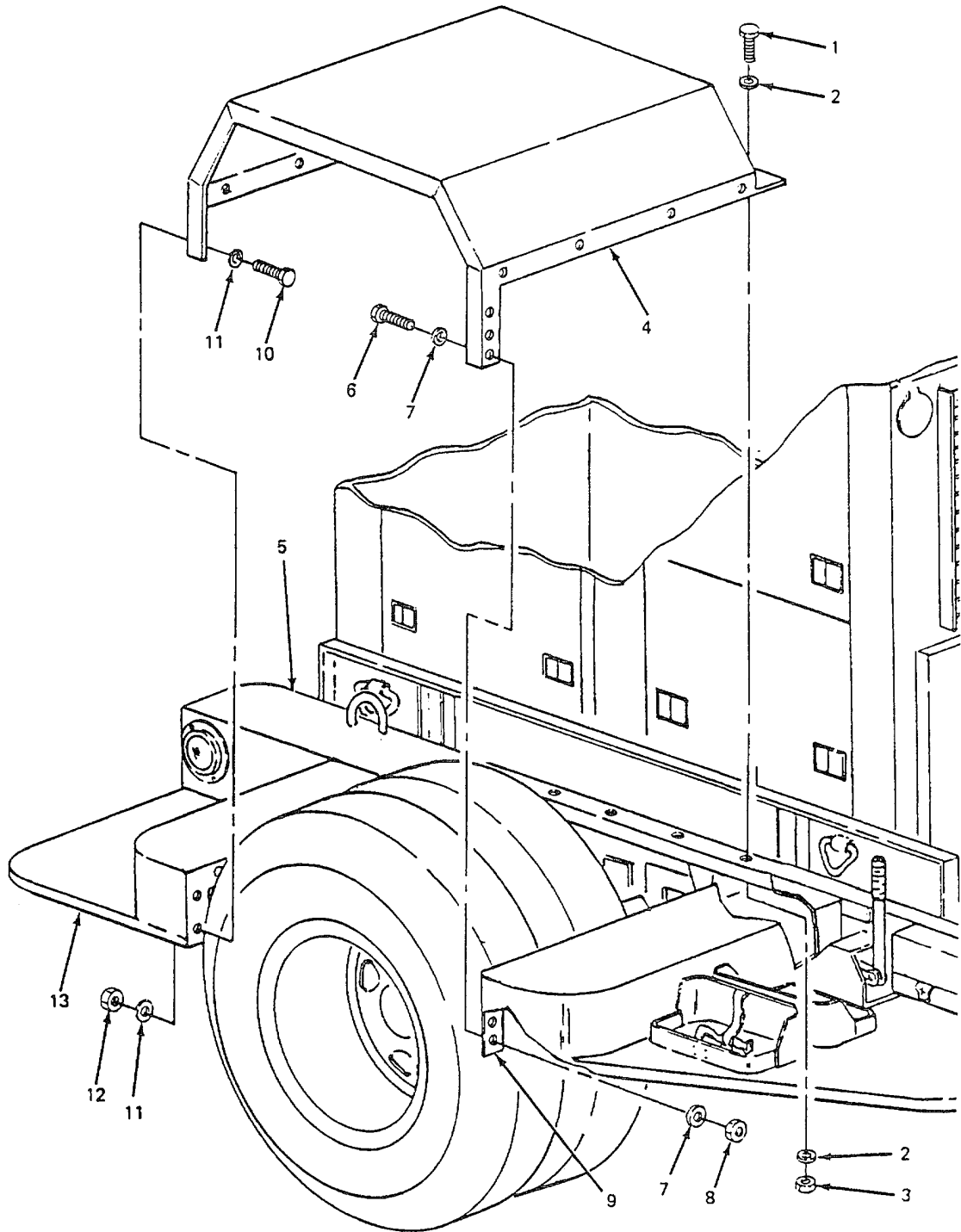
There are five sets of hardware securing fender to rear step and seven sets of hardware securing fender to front step This hardware should be removed in sequence from trailer frame outward In this way, last two screws on front and rear lower fender edge will support fender until you are out from underneath

- (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, tender 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)



4885-034

Figure 4-10. Fender Replacement

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
- (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) This platform is mounted on the rear of the trailer to facilitate access to generator set controls and indicators

a. Removal

- (1) Remove two screws (1, figure 4-11), four flat washers (2) and two self-locking nuts (3) securing platform (4) to mounting brackets (5)

WARNING

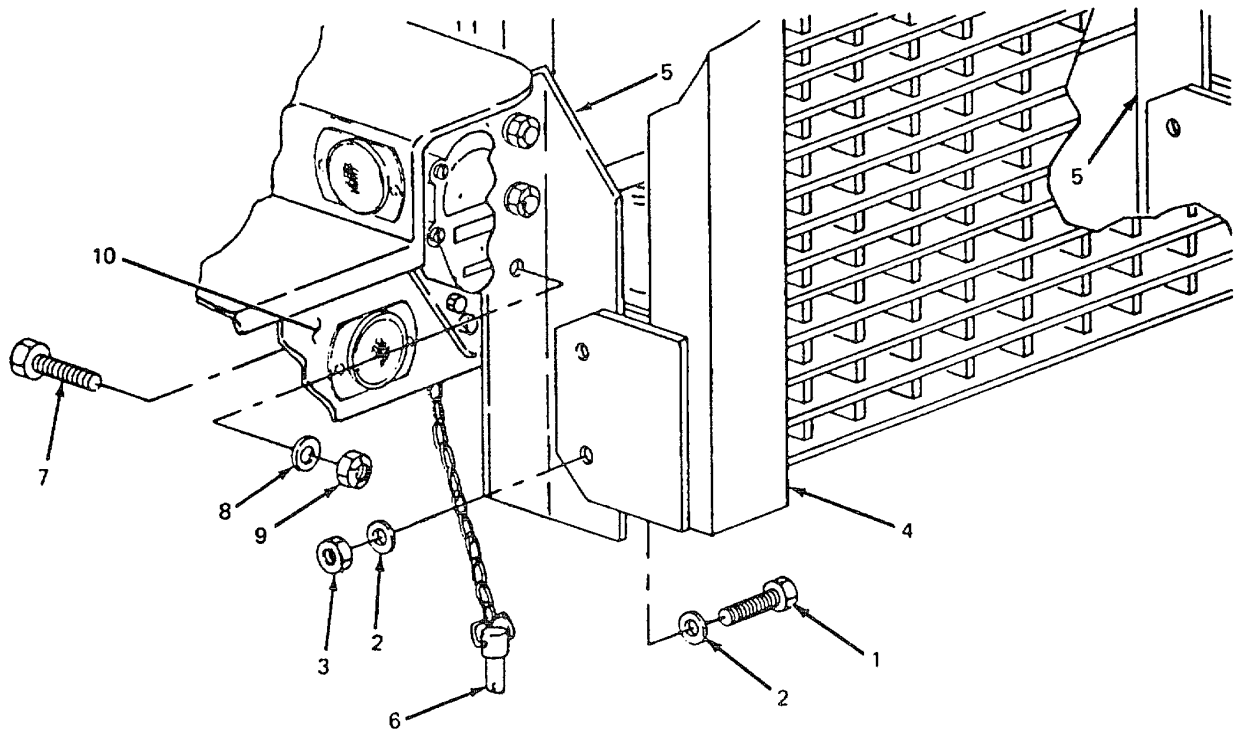
Support platform while removing anchors When anchors are removed, platform will drop

- (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 self-locking 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 self-locking nuts (9) from each mounting bracket (5) and take mounting brackets off of trailer frame (10)



4885-035

Figure 4-11. Personnel Platform Replacement.

b. Installation

NOTE

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

(1) Position each mounting bracket (8) on trailer frame (10) Insert three screws (7) through frame into each bracket Install one washer (8) and one self-locking 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 self-locking nuts (3)

CHAPTER 5

DIRECT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

Section I. INTRODUCTION

5-1 **General.** This chapter contains direct and general support level maintenance procedures for components of the M200A1 trailer added when the trailer is used as part of the PU-732/M power unit. These components are not covered in the overall trailer maintenance manual. For all other direct and general support maintenance procedures on the trailer, refer to TM 9-2330-205-14&P. For direct and general support maintenance procedures on the generator set, refer to TM 5-6115-464-34.

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. If power unit is painted in camouflage, refer to paragraph 5-4, Marking.

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. If power unit is painted in camouflage, refer to paragraph 5-4, Marking. 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

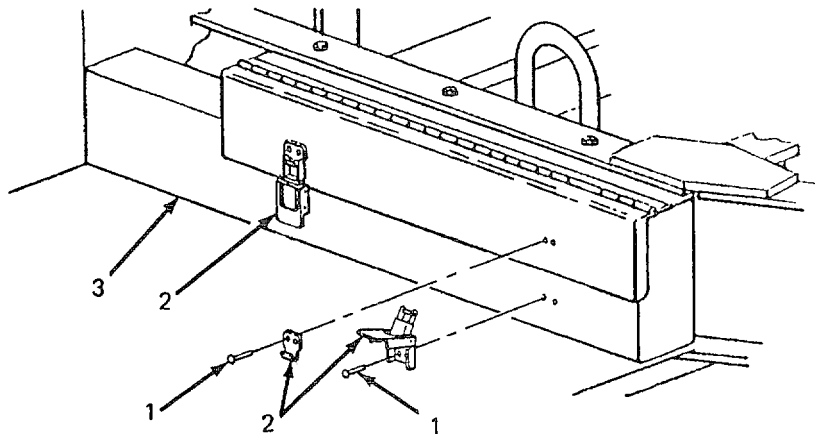
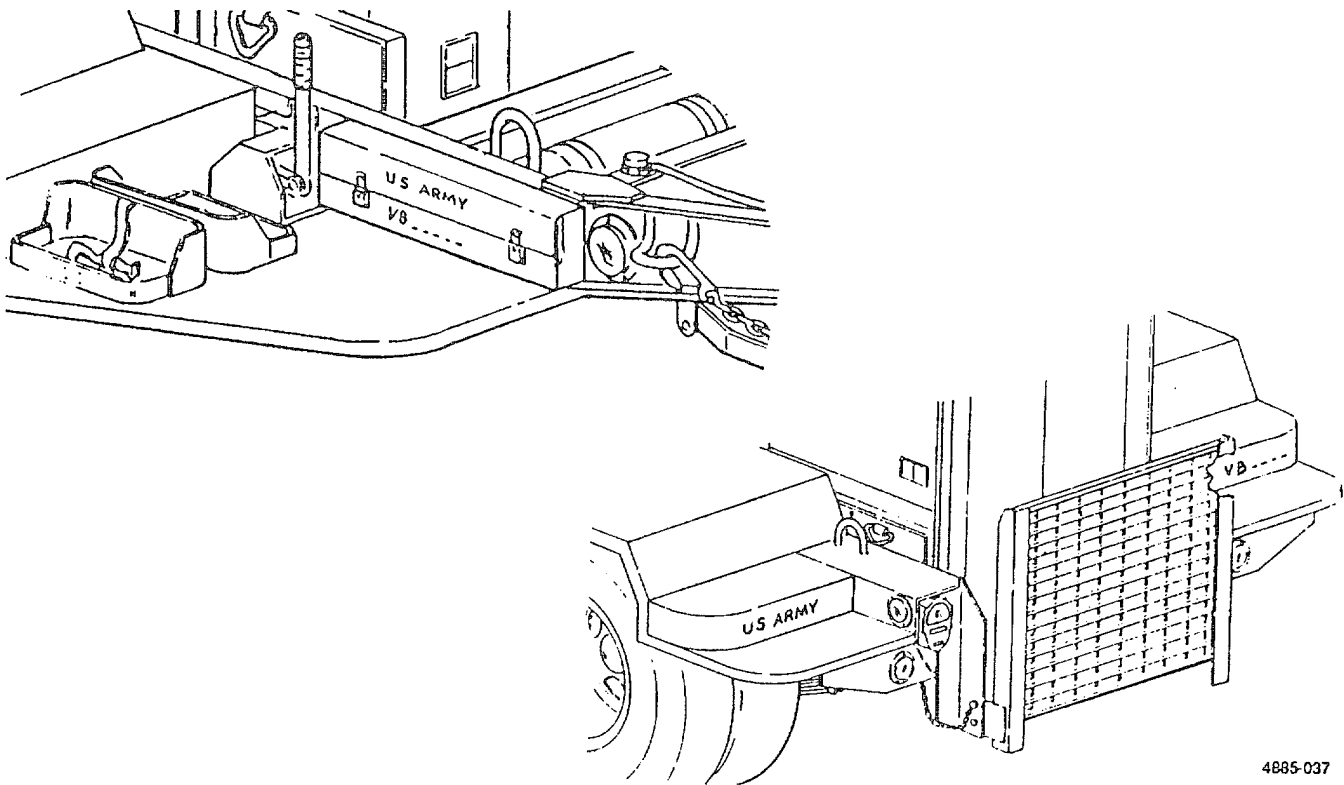


Figure 5-1. Accessory Box Repair.

4885 036

5-4. **Marking.** (See figure 5-2) The power unit four-digit registration number, preceded by the prefix "VB" and the words "U S ARMY", is marked in three places on power unit 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 + 12 inch high characters in accordance with MIL-STD-130 figure 5-2 shows the approximate location of markings on power unit If required, touch-up ' of the base color shall be done in accordance with MIL-T-704 Type F. Color Green, No 383 of MIL-C-46168 When power unit has been previously painted in camouflage, any touch-up painting following repairs must match authorized patterns and colors as specified in TB 43-0147 Application of camouflage paint shall be done in accordance with MIL-C-53072



4885-037

Figure 5-2. Power Unit Markings.

Section III. GENERATOR SET

5-5 **Generator Set Replacement.** (See figures S-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.

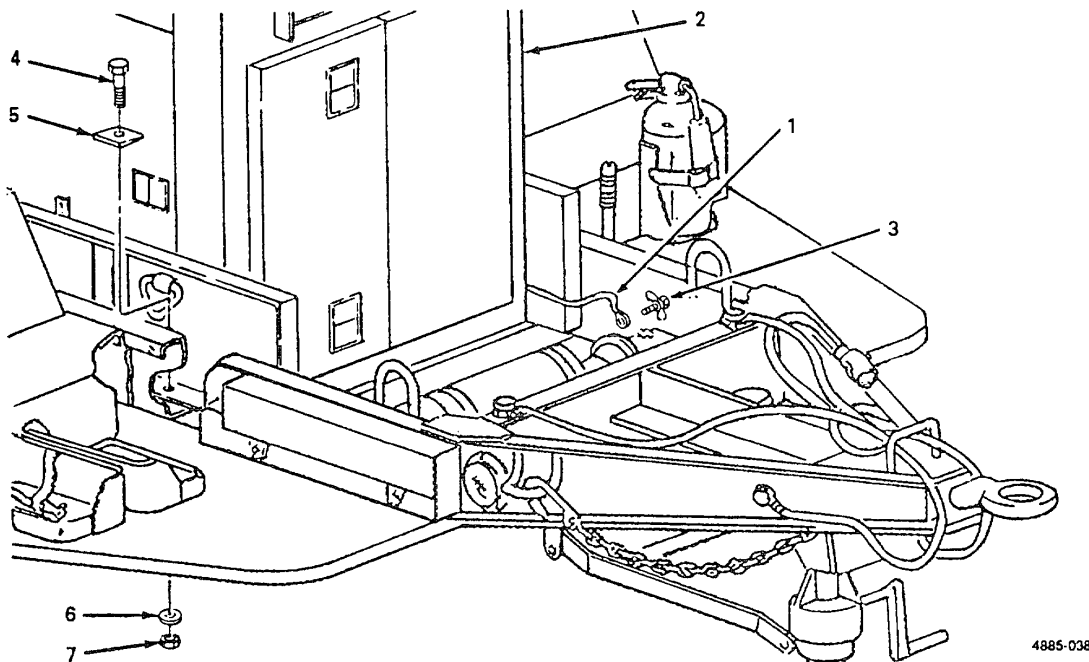


Figure 5-3. Detaching Generator Set from Trailer.

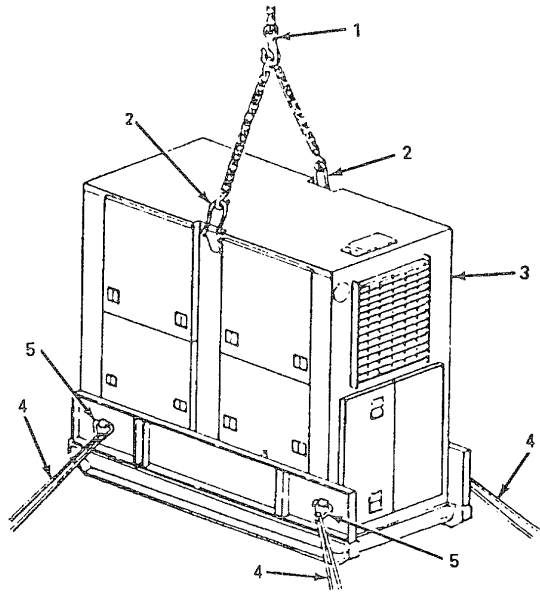
(2) Remove eight screws (4), eight beveled washers (5), eight flat washers (6) and eight nuts (7) securing generator set (2) to trailer.

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.



4885-039

Figure 5-4. Lifting Generator Set

b. Installation

WARNING

When letting generator set, use lifting equipment with a minimum lifting capacity of 3500 lb Do not stand under generator Do not permit generator set so 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 trailer

(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 5-6115-464-12 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 5-6115-464-12 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&P for operational tests required to verify satisfactory performance of the trailer.

APPENDIX A

REFERENCES

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

A-2 Forms and Records.

Supply Policy Below the Wholesale Level	AR 710-2
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 25-30
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.....	MIL-C-46168
Chemical Agent Resistant Coating (CARC) System Application Procedure and	
Q/C Inspection	MIL-C-53072
Identification Marking of U S Military Property	MIL-STD-130
Identification Marking of Combat and Tactical Transport.....	MIL-STD-642
Treatment and Painting of Materiel.....	MIL-T-704

A-4. Technical Manuals.

Operator and Organizational Maintenance Manual Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 15 KW, 3 Phase, 4 Wire, 120/208 and 240/416 V (DOD Model MEP-004A) Utility Class, 50/60 Hz (NSN 6115-00-118-1241), (Model MEP-103A), Precise Class, 50/60 Hz (6115-00-118-1245), (Model MEP-113A), Precise Class, 400 Hz (6115-00-118-1244)	TM 5-6115-464-1 2
Organizational, Intermediate (Field) (Direct Support and General Support and Depot Maintenance Repair Parts and Special Tools List) Generator Set, Diesel Engine Driven, Tactical Skid Mounted, 15 KW, 3 Phase, 4 Wire, 120/208 and 240/416 V (DOD Models MEP-004A) Utility Class, 50/60 HZ (NSN 6115-00-118-1241), (Model MEP-103A3, Precise Class, 50/60 HZ (6115-00-118-1245), (Model MEP-113A), Precise Class, 400 Hz (6115-00-118-1244)	TM 5-6115-464-24P

Intermediate (Field) Direct and General Support and Depot Level Maintenance Manual, Generator Set, Diesel Engine Driven, Tactical Skid Mtd, 15 KW, 3 Phase, ~ Wire, 120/208 and 240/416 Volts DOD Model MEP-004A, Utility Class, 50160 HZ (NSN 6115-00-118-1241), Model MEP-103A, Precise Class, 50/60 HZ (61 15-00-1 18-1245), Model MEP-1 13A, Precise Class, 400 1 IZ (6115-00-118-1244).....	TM 5-6115-464-34
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

A-5. Technical Bulletins

Color, Marking and Camouflage Patterns Used on Military Equipment Managed by USATROSCOM.....	TB 43-0147
Preservation of USAMECOM Mechanical Equipment for Shipment and Storage	TB 740-97-2

APPENDIX B

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, BII 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 BII, 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.

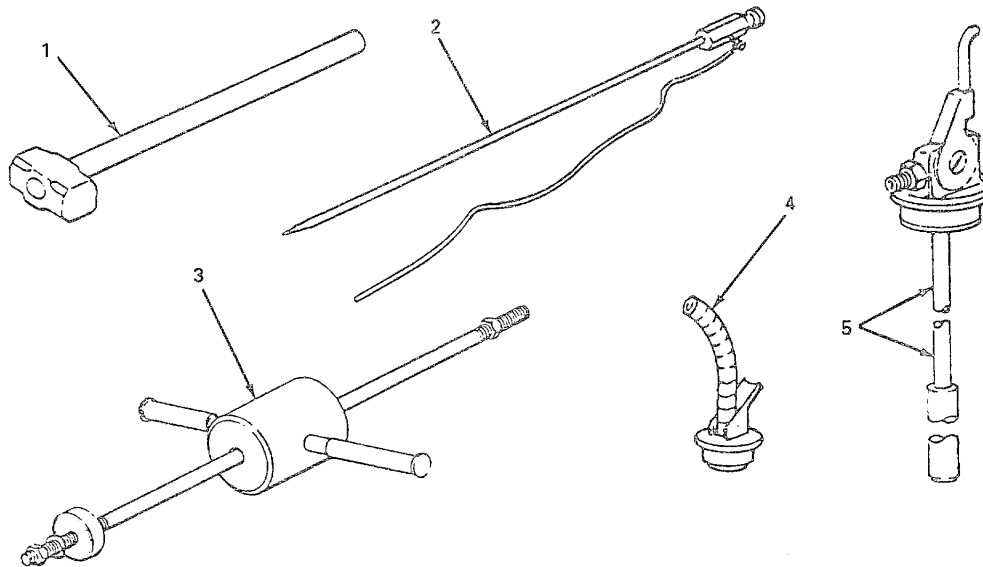
b. Column (2) National Stock Number Indicates the National Stock Number assigned to the item.

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.

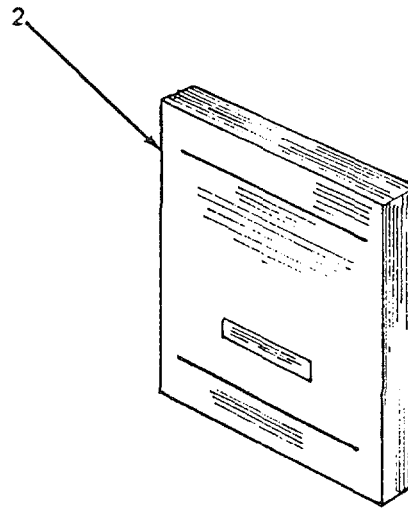
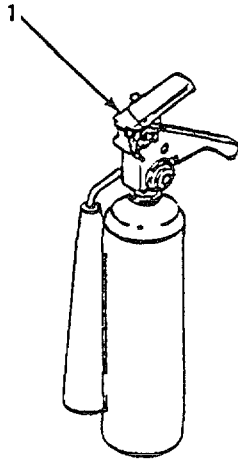
Section II. COMPONENTS OF END ITEM



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(1) ILLUS NO.	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION FSCM AND PART NUMBER	(4) USABLE ON CODE U/M	(5) QTY REQ'D
1	5120-00-243-2957	Hammer, Hand, Engineers 10 lb. (3 6 kg) (81348) GGG-H-86	ea	1
2	5975-00-878-3791	Rod, Ground, Driven, Sectional 9 ft (2.7 m) (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	2910-00-066-1235	Adapter Assy, Fuel Drum (97403) 13214E7541	ea	1

Section III. BASIC ISSUE ITEMS



4885-040-2

TM

SECTION II. COMPONENTS OF ITEM LIST

(1) ILLUS NO.	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION FSCM AND PART NUMBER	(4) USABLE ON CODE U/M	(5) QTY 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 5-6115-653-14&P	ea	1

APPENDIX C

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

C-1 General.

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

b. Section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.

c. Section III lists the tools and test equipment required for each maintenance function as referenced from Section II.

d. Section IV contains supplemental instructions, explanatory notes and/or illustrations required for a particular maintenance function.

C-2 Explanation of Columns in Section 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 - Direct support maintenance
- H - 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 - Alone 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 ceded 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 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 to 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 of 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.** Tools, Test, and Support Equipment Requirements is not applicable

C-4 **Explanation of Columns in 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	
		I n s p e c t	T e s t	S e r v i c e	A d j u s t	A l i g n	C a l i b r a t e	I n s t a l l	R e p l a c e	R e p a i r	O v e r h a u l			R e b u i l d	
01	GENERATOR SET	C 0.2		C 2.0					F 3.0						See TM 5-6115-464-12,-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 1.0	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													
	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, DIRECT, GENERAL SUPPORT AND DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

D-1 Scope. This manual lists repair parts and special tools required for the performance of unit, direct and general support and depot maintenance of the power unit

D-2 General. The Repair Parts and Special Tools List is divided into the following sections

a. Repair Parts - Section II. A list of repair parts authorized for the performance of maintenance at the unit, direct and general support and depot level in figure and item number sequence

b. 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, 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 numerical 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. 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. Source, Maintenance, and Recoverability Codes (SMR), (Column 2)

(1) Source codes

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 which otherwise would be coded PA except that it is deteriorative in nature
PC	Item procured and stocked and
PD	Support Item, excluding support equipment, procured for initial issue or stocked only for subsequent or additional initial automatic replenishment
PE	Support equipment procured and stocked for Initial Issue or outfittings to maintenance repair activities
PF	Support equipment which will not be stocked but which will be centrally 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 that provides Items required at the time of overhaul or repair
KF	An item of maintenance kit and not purchased separately Maintenance kit that provides an item that can be replaced at unit or DS/GS 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 levels	Item to be manufactured or fabricated at general support maintenance levels
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 direct support maintenance levels
AH	Item to be assembled at general support maintenance levels
AD	Item to be assembled at depot maintenance level
XA result In the	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly
XB requisition XC sheet, field service drawing, that is identified by	Item is not procured or stocked If not available through salvage, Installation drawing, diagram, instruction manufacturer's part number
XD through normal	A support item that is not stocked When required, item will be procured through normal supply channels

(2) *Maintenance codes:* 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
O	Support item is removed, replaced, used at the unit level of maintenance
F	Support item is removed, replaced, used at direct support level
H	Support item is removed, replaced, used general support level
Code	Definition
D	Support items that are removed, replaced, used at depot only 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)

Code	Application/Explanation
O Item is the unit	The lowest maintenance level capable of complete repair of the support level
F item is direct	The lowest maintenance level capable of complete repair of the support support level
H item is general	The lowest maintenance level capable of complete repair of the support support level

Code	Definition
D item is the Specialized Repair Activity	The lowest maintenance level capable of complete repair of the support depot level Depot, Mobile Depot, and

Code	Application/Explanation
L	Repair restricted to designated Specialized Repair Activity
2	Nonreparable No repair is authorized
B lubricating, etc. at for the maintenance of this item	No repair is authorized The item may be reconditioned by adjusting, the user level No parts or special tools are procured

(3) *Recoverability codes* 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 level indicated in	Nonreparable Item When unserviceable, condemn and dispose at the column 3
O at unit level	Reparable item When uneconomically repairable, condemn and dispose
F at direct support	Reparable item When uneconomically repairable, condemn and dispose level
H at general	Reparable hem When uneconomically repairable, condemn and dispose support level

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. National Stock Number (Column 4). Indicates the National Stock Number assigned to the Item and will be used for requisitioning purposes

d. Description (Column 5). Indicates the Federal Item name and any additional descriptions of the Item required The abbreviation "w/e" when used as a 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. 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 9, 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. 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. 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 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 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. 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. 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 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 pad and description is given in this listing

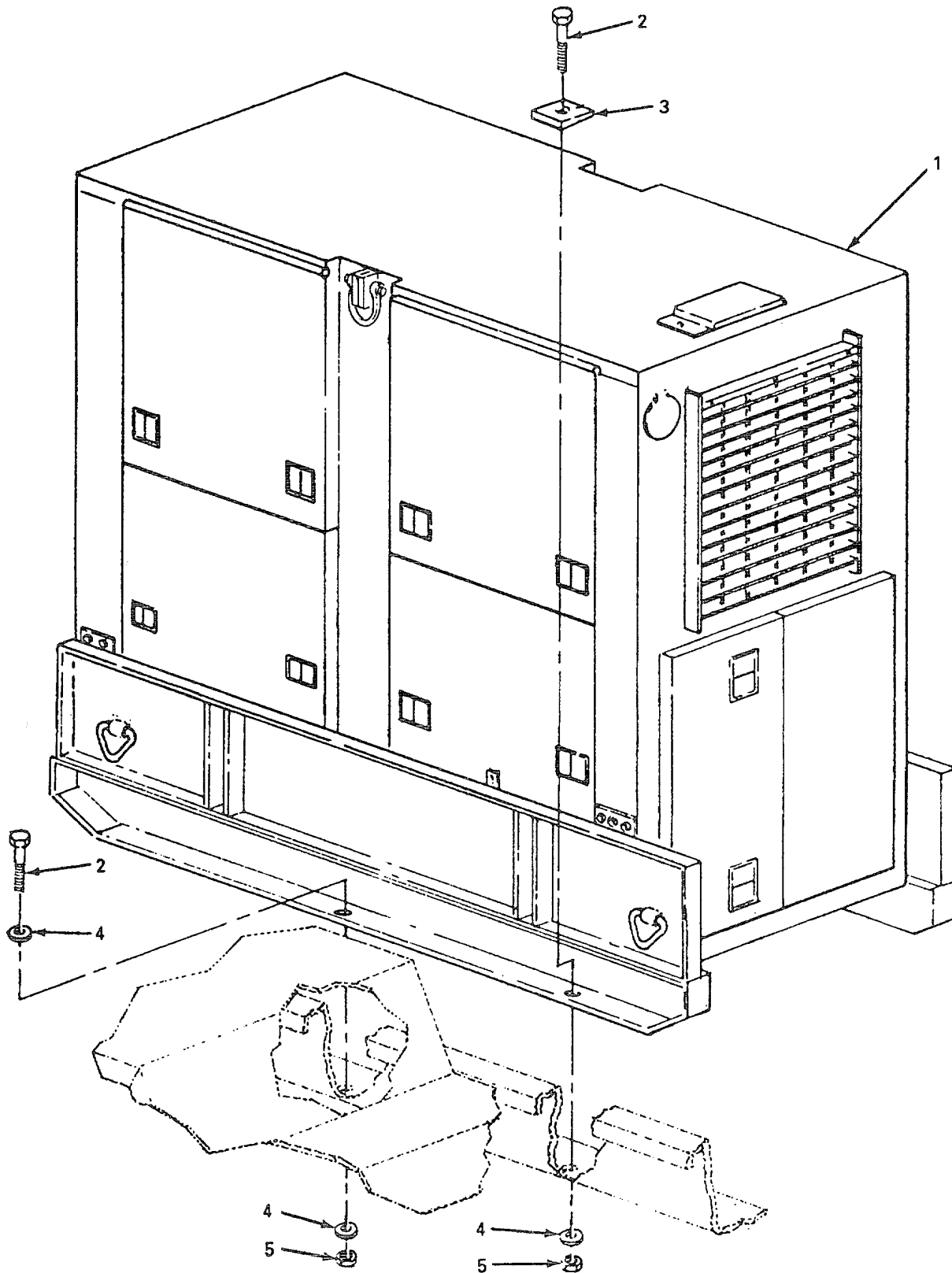
D-7 Abbreviations

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

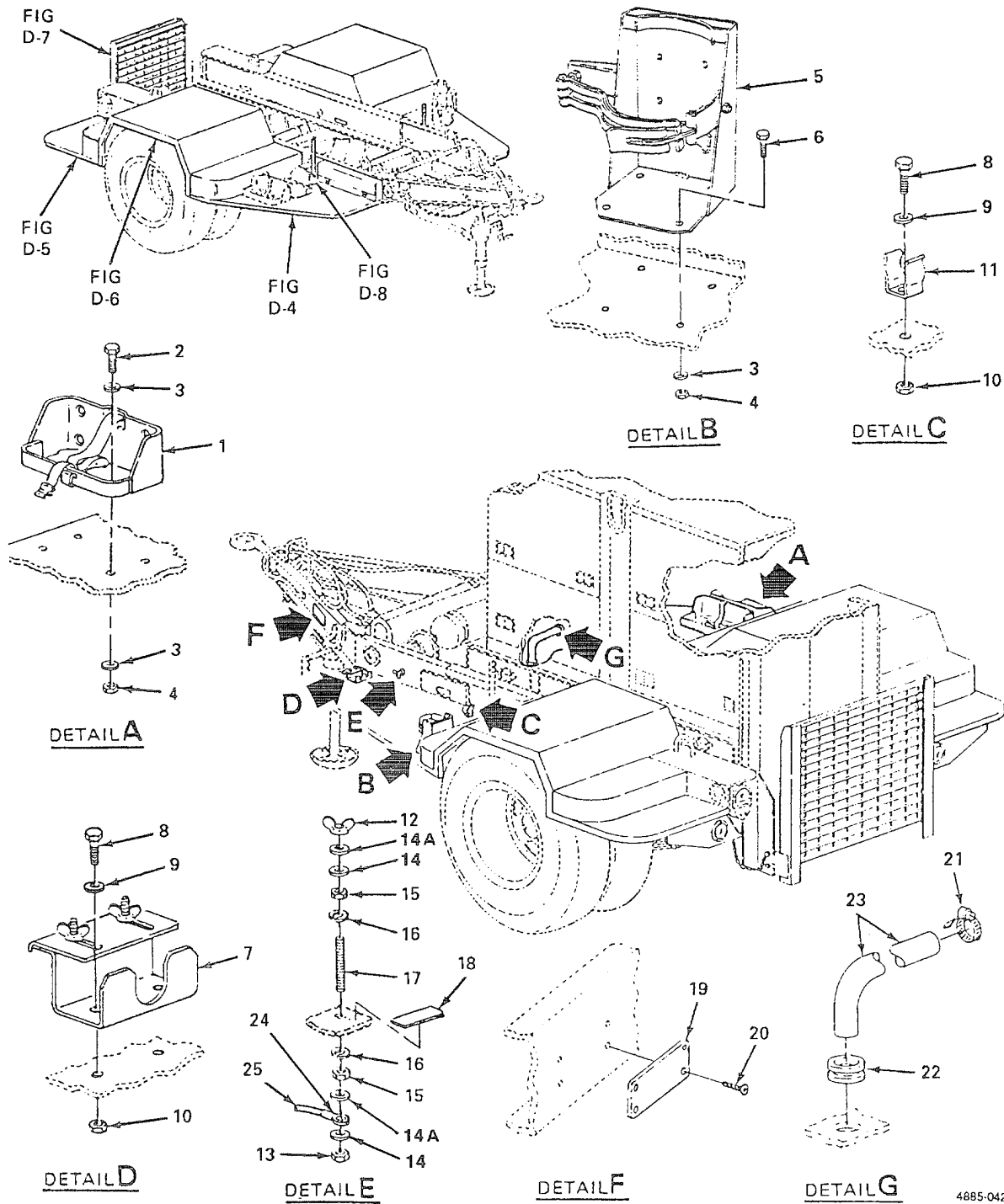


4885-041

Figure D-1. Generator Set.

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(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
(a) FIG NO.	(b) ITEM NO.	a ARMY	b AIR FORCE	c NAVY	d USMC	a SSI	b REPL FACTOR	REF NUMBER & MFR CODE					
D-1	1							6115 00 118 1244	Group 01- GENERATOR GENERATOR SET, DIESEL MEP 113A	97403	EA	1	
D-1	2	PAFZZ						5305 00 J24 7222	SCREW, CAP, HEX MS90728 164	96906	EA	8	
D 1	3	PAFZZ						5310 01 185 0586	WASHER, REVELED 13206E4482 3	97403	EA	4	
D-1	4	PAFZZ						531001 8238803	WASHER,FLAT MS27183 21	96906	EA	8	
D-1	5	PAFZZ						5310 00 269 4040	NUT, SELF-LOCKING MS51922 49	96906	EA	8	



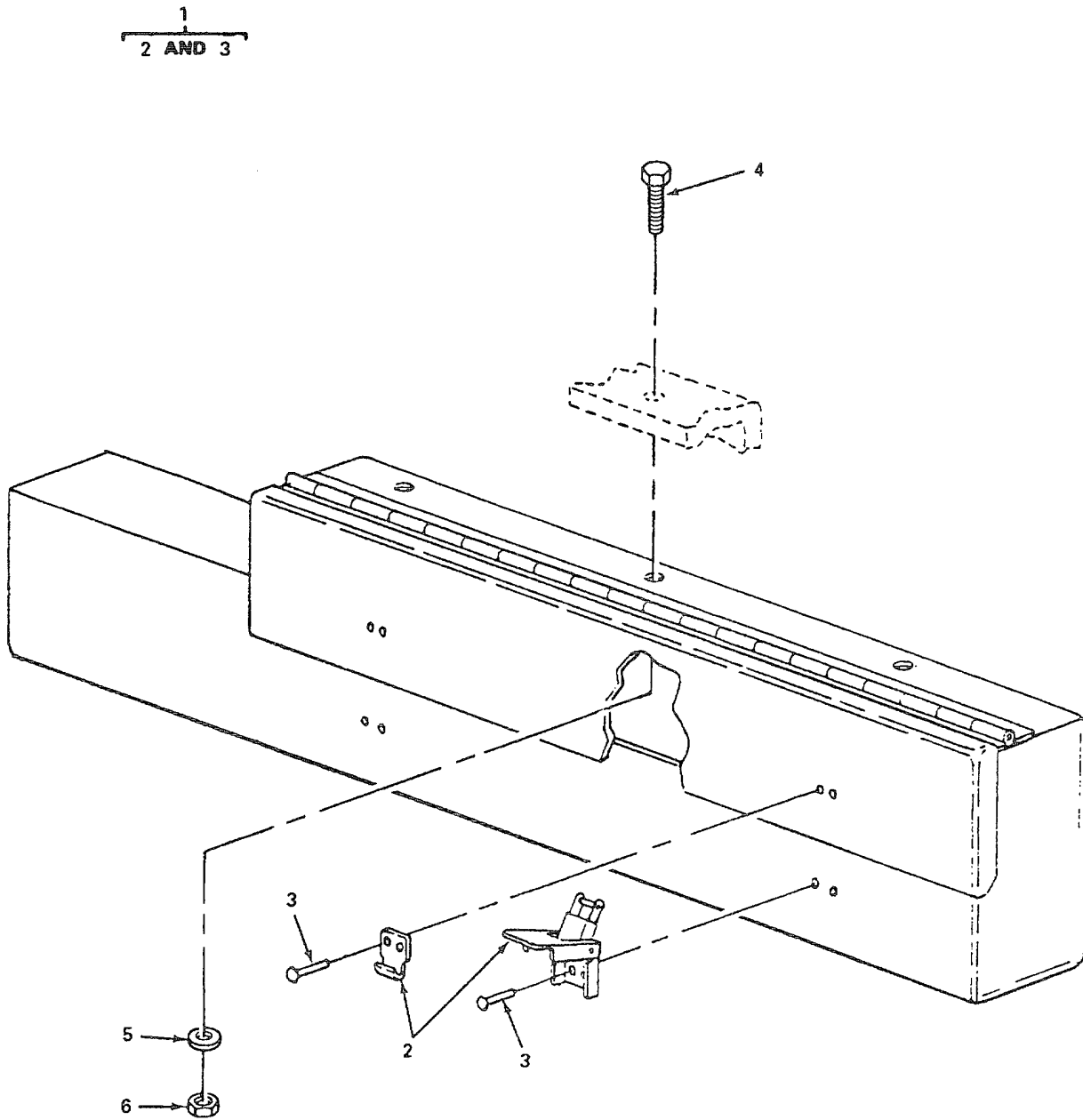
4885-042

Figure D-2. Trailer Body

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION		(6) USABLE ON CODE	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
(a) FIG NO.	(b) ITEM NO.	a ARMY	b AIR FORCE	c NAVY	d USMC	a SSI	b REPL FACTOR		REF NUMBER & MFR CODE				
D-2	1	PAOZZ						2590-00-473-6331	Group 03 - Trailer 03 - Body BRACKET ASSEMBLY, LIQUID CONTAINER MS53052-1 96906		EA	2	
D-2	2	XBOZZ						5305-00-269-3210	SCREW, CAP, HEX MS90725 62 96906	96906	EA	8	
D-2	3	PAOZZ						5310-00 080-6004	WASHER, FLAT MS27183-14 96906	96906	EA	20	
D-2	4	PAOZZ						5310-00-087-4652	NUT, SELF-LOCKING MS51922-17 96906	96906	EA	12	
D-2	5	PAOZZ						4210-00-223-4857	BRACKET, FIRE EXTINGUISHER 13214E1235 97403	97403	EA	1	
D-2	6	PAOZZ						5305-00-984-5691	SCREW, MACHINE MS35206 311 96906	96906	EA	4	
D-2	7	PAOZZ						5340-00-999-6277	BRACKET ASSEMBLY 13214E1214 97403	97403	EA	1	
D-2	8	PAOZZ						5305-00 068-0502	SCREW, CAP, HEX MS90725 6 96906	96906	EA	3	
D-2	9	PAOZZ						5310-00-809-4058	WASHER, FLAT MS27183-10 96906	96906	EA	3	
D-2	10	PAOZZ						5130-00-088-1251	NUT, SELF-LOCKING MS51922-1 96906	96906	EA	3	
D-2	11	PAOZZ						5304-00-914-2578	CLIP, SPRING 13214E1213-1 97403	97403	EA	1	
D-2	12	PAOZZ						5310 00-543-4717	NUT, PLAIN, WING MS35435-28 96906	96906	EA	1	
D-2	13	PAOZZ						5310-00-584-7995	NUT, PLAIN, HEX MS16203-27 96906	96906	EA	1	
D-2	14	PAOZZ						5310-00 004-9129	WASHER, FLAT AN961 - 616S 81352	81352	EA	4	
D-2	14A	PAOZZ						5310-00-187-2413	WASHER, FLAT AN961-616T 81352	81352	EA	4	
D-2	15	PAOZZ						5310-00-026-5824	NUT, PLAIN, HEX MS16203 39 96906	96906	EA	2	
D-2	16	PAOZZ						5310-00 022 8847	LOCKWASHER MS35333-110 96906	96906	EA	2	
D-2	17	PAOZZ						5307-00-227-1741	STUD 13214E1223 97403	97403	EA	1	
D-2	18	MDFZZ						9905-01-085-7703	PLATE, IDENTIFICATION 13205E4918 97403	97403	EA	1	
D-2	19	MDFZZ							PLATE, IDENTIFICATION 13216E7604-39 97403	97403	EA	1	
D-2	20	PAOZZ						5305-00-253-5616	SCREW, DRIVE MS21318-21 96906	96906	EA	4	

Change 1 D-11

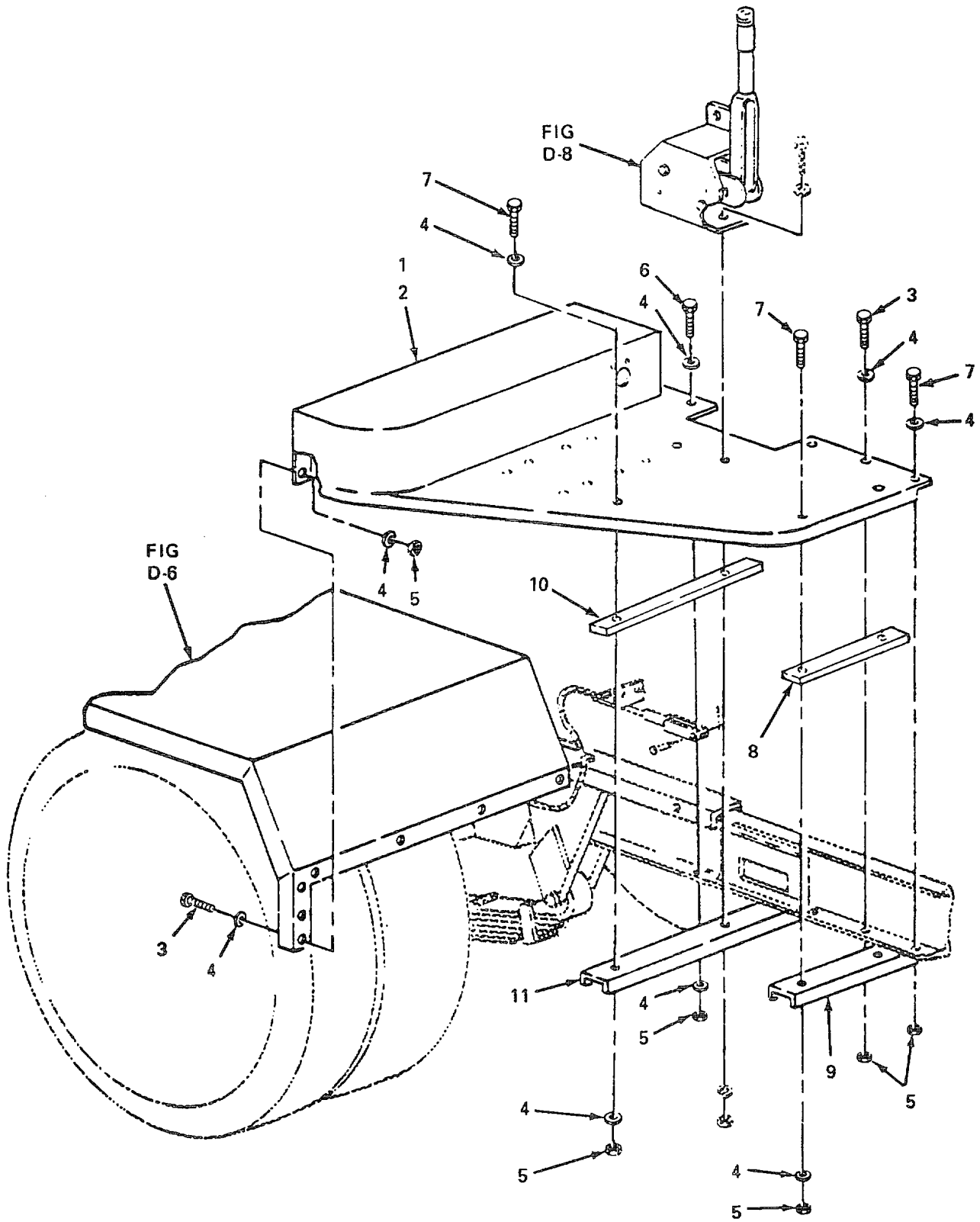
(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
(a) FIG NO.	(b) ITEM NO.	a ARMY	b AIR FORCE	c NAVY	d USMC	a SSI	b REPL FACTOR		REF NUMBER & MFR CODE				
									Group 03 - TRAILER 03 Body (cont)				
D-2	21	PAOZZ						4730-00-908-3193	CLAMP, HOSE MS35842-12	96803	EA	1	
D-2	22	PAOZZ						5325-00-290-1960	GROMMET MS35489 -7	96906	EA	1	
D-2	23	MHOZZ							HOSE ZZ-H-426	81348	EA	1	
D-2	24	PAOZZ						5940-00-115-4992	TERMINAL LUG MS20659-110	96906	EA	2	
D-2	25	PAOZZ						8145-00-395-8799	WIRE, NO. 6AWG ZZ-W-343	81348	FT	AR	



4885-043

Figure D-3. Accessory Box.

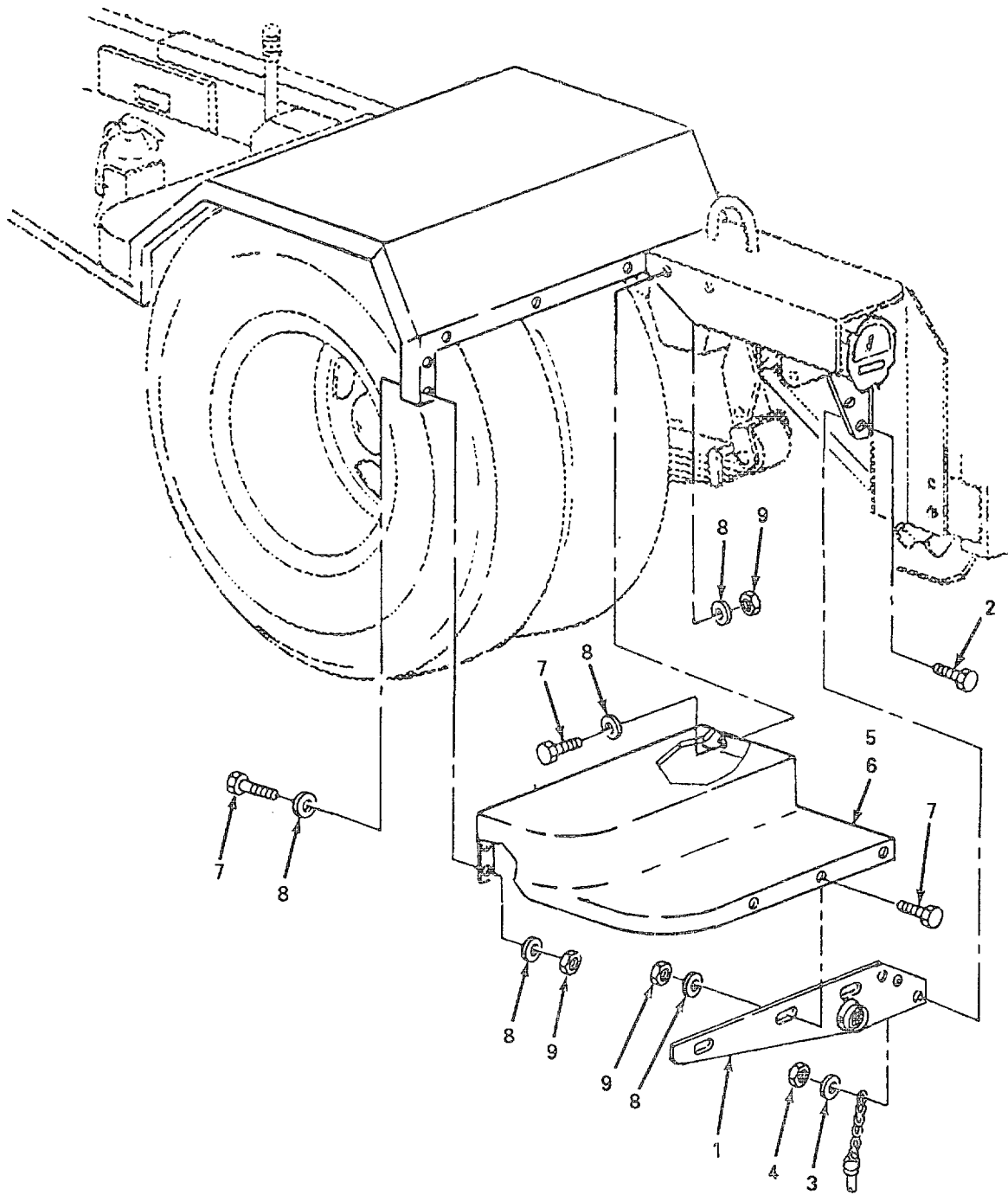
(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
(a) FIG NO.	(b) ITEM NO.	a ARMY	b AIR FORCE	c NAVY	d USMC	a SSI	b REPL FACTOR		REF NUMBER & MFR CODE				
D-3	1	XBFFF						2450-00-903-3503	03 - Accessory Box 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 MS20613-4P5	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	



4885-044

Figure D-4. Front Steps.

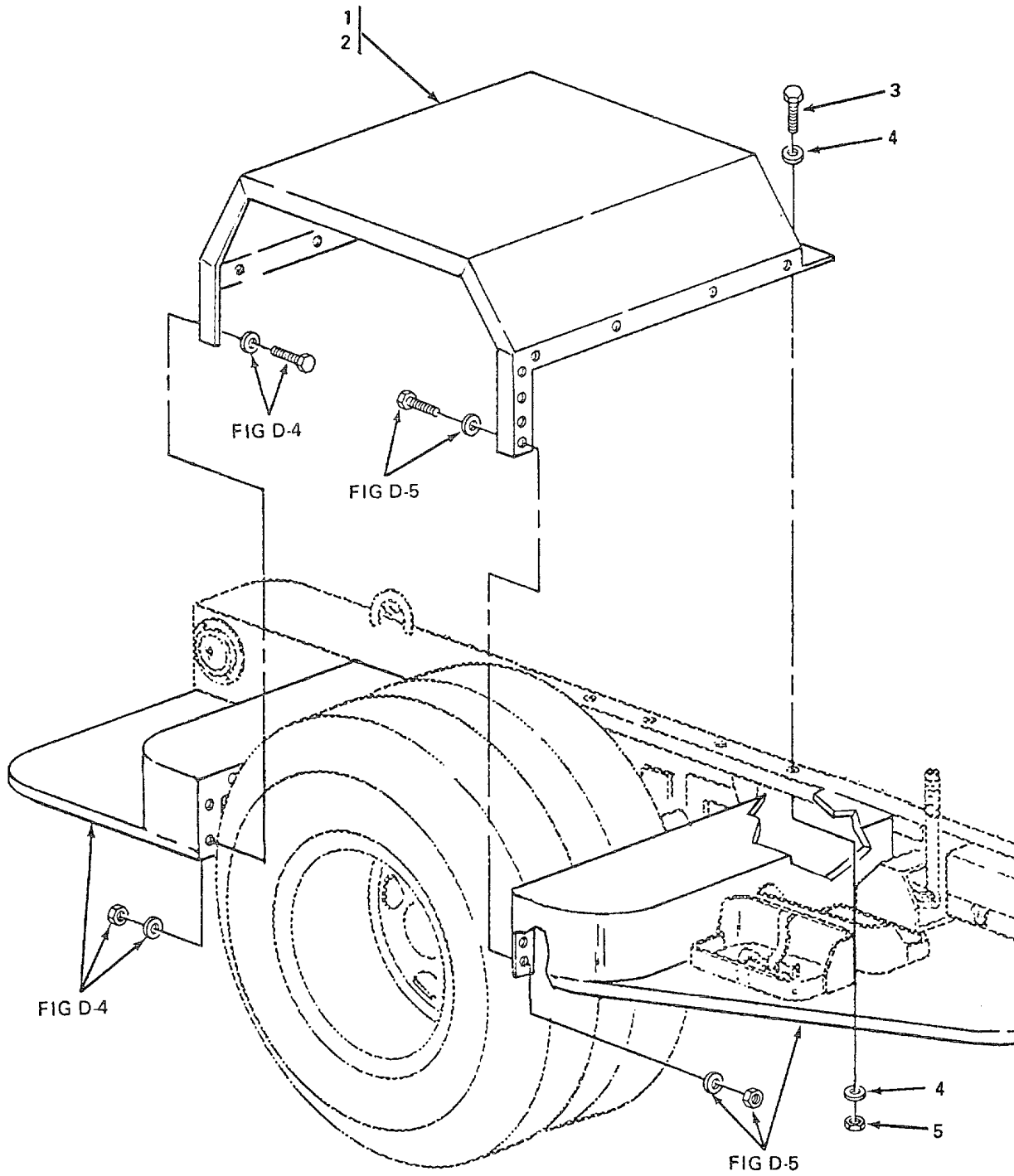
(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
(a) FIG NO.	(b) ITEM NO.	a ARMY	b AIR FORCE	c NAVY	d USMC	a SSI	b REPL FACTOR	REF NUMBER & MFR CODE					
D-4	1	XBOFF						2330-01-150-9864	03 - FRONT STEPS STEP,FRONT,CURBSIDE 13214E1461	97403	EA	1	
D-4	2	XBOFF						2510-00-196-682	STEP, FRONT, ROADSIDE 13214E1462	97403	EA	1	
D-4	3	PAOZZ						5306 00-225-499	SCREW,CAP,HEX MS90725-4	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	XDFZZ						5365-00-944-2692	SPACER 13214E1267-1	97403	EA	2	
D-4	9	XBFZZ							CHANNEL 13214E1268	97403	EA	1	
D-4	10	XBFZZ						5365-00-945-5998	SPACER 13214E1267-2	97403	EA	2	
D-4	10	XBFZZ							CHANNEL 13214E1463	94703	EA	1	



4885-045

Figure D-5. Rear Steps.

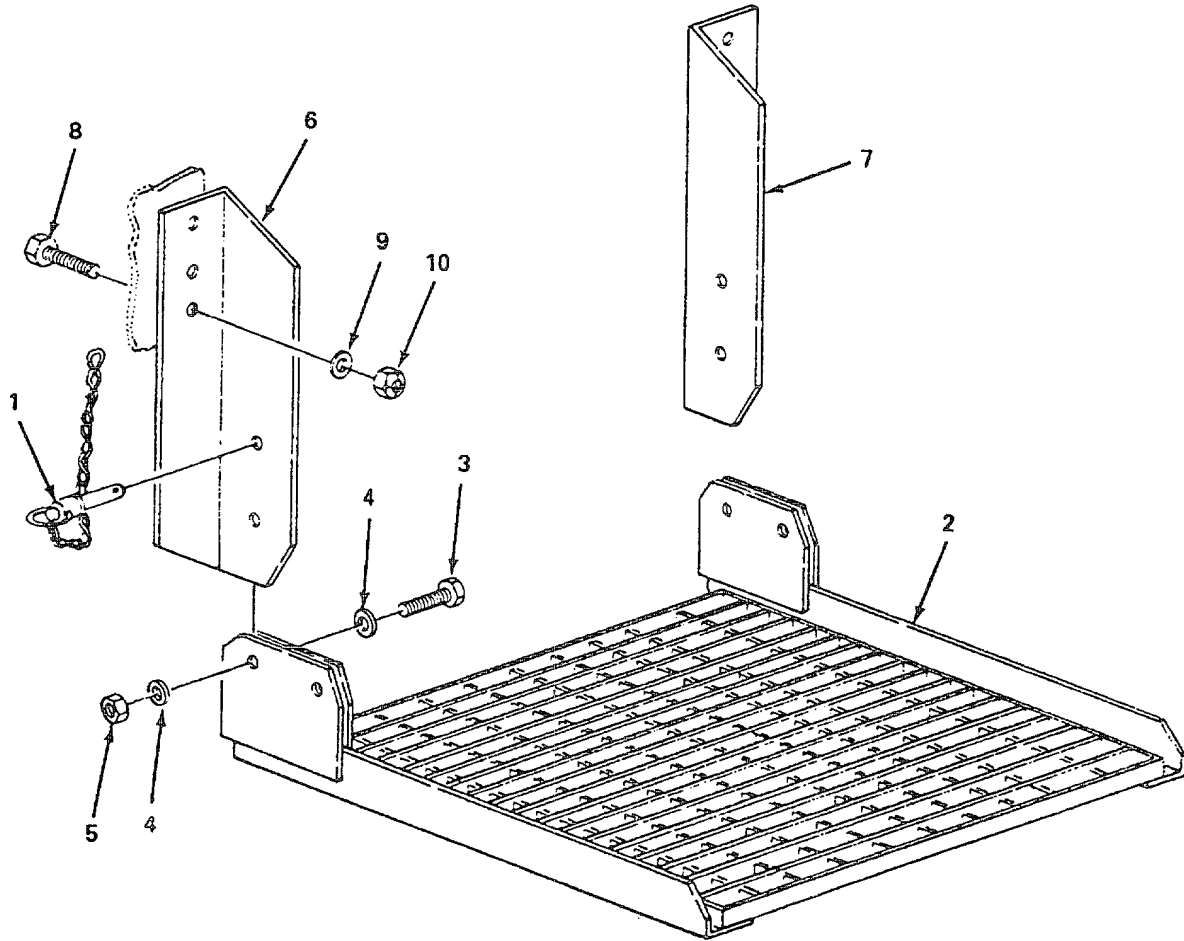
(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
(a) FIG NO.	(b) ITEM NO.	a ARMY	b AIR FORCE	c NAVY	d USMC	a SSI	b REPL FACTOR		REF NUMBER & MFR CODE				
D-5	1	XBOFF						5340-01-875-8820	03 - Rear Steps 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	XBOFF						2510-01-N73-0729	STEP, REAR, ROADSIDE 13214E1261	97403	EA	1	
D-5	6	XBOFF						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	



4885-046

Figure D-6. Fenders.

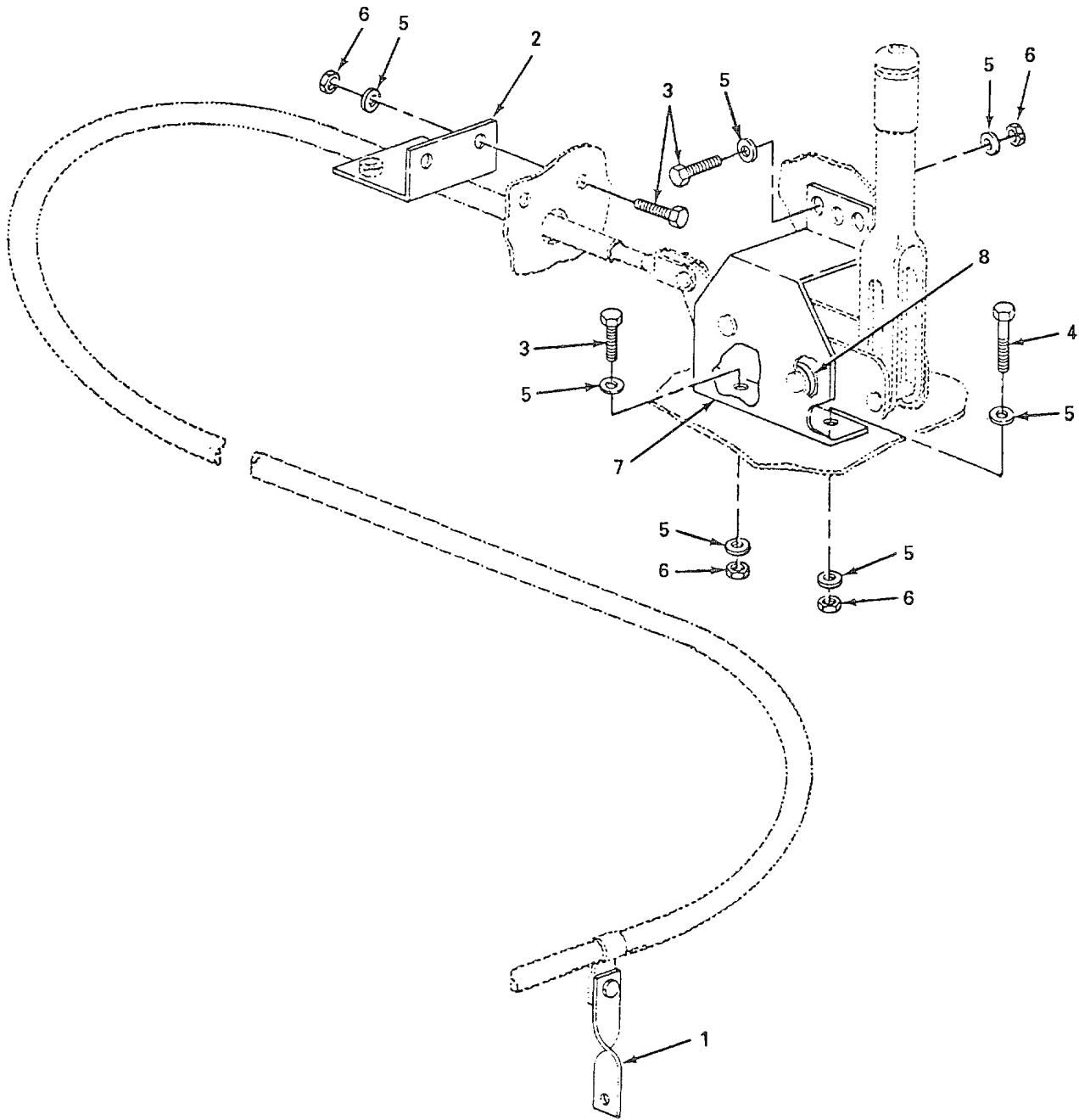
(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4)	(5) DESCRIPTION		(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	a ARMY	b AIR FORCE	c NAVY	d USMC	a SSI	b REPL FACTOR	NATIONAL STOCK NUMBER	REF NUMBER & MFR CODE	USABLE ON CODE	U/M	QTY INC IN UNIT	USMC QTY PER EQUIP
D-6	1	XBOFF						2510-01-213-3242	Group 03 - Fenders FENDER, ROADSIDE 13214E1264	97403	EA	1	
D-6	2	XBOFF						2510-01-195-4273	FENDER, CURBSIDE 13214E1263	97403	EA	1	
D-6	3	PAOZZ						5306-00-225-8500	SCREW, CAP, HEX MS90725-35	96506	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	



4885-047

Figure D-7. Personnel Platform.

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
(a) FIG NO.	(b) ITEM NO.	a ARMY	b AIR FORCE	c NAVY	d USMC	a SSI	b REPL FACTOR		REF NUMBER & MFR CODE				
									03 - Personnel Platform				
D-7	1	PAOZZ						5340-01-156-6142	ANCHOR, PLATFORM 13214E1303	97403	EA	2	
D-7	2	XBOFF						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	XBOFF						5340-00-097-7676	BRACKET, LEFT 13214E1299	97403	EA	1	
D-7	7	XBOFF						5340-00-999-6441	BRACKET, RIGHT 13214E1300	97403	EA	1	
D-7	8	PAOZZ						5305-00-042-6417	SCREW, CAP, HEX MS90725-113	96906	EA	6	
D-7	9	PAOZZ						5310-00-809-5998	WASHER, FLAT MS27153-18	96906	EA	6	
D-7	10	PAOZZ						5310-00-225-6993	NUT, SELF-LOCKING MS51922-33	96906	EA	6	



4885-048

Figure D-8. Handbrakes

(1) ILLUSTRATION		(2) SMR CODE				(3) USMC		(4) NATIONAL STOCK NUMBER	(5) DESCRIPTION	USABLE ON CODE	(6) U/M	(7) QTY INC IN UNIT	(8) USMC QTY PER EQUIP
(a) FIG NO.	(b) ITEM NO.	a ARMY	b AIR FORCE	c NAVY	d USMC	a SSI	b REPL FACTOR		REF NUMBER & MFR CODE				
D-8	1	XBFZZ						6115-01-876-2084	03 - Handbrakes STRAP, BRAKE CABLE 13214E1271	97403	EA	2	
D-8	2	PAFZZ							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							SCREW, CAP, HEX MS90725-39	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	XBFZZ						5340-01-226-5766	BRACKET, BRAKE 13214E1269	97403	EA	2	
D-8	8	XBFZZ						5365-00-989-3304	SPACER 13214E1272	97403	EA	4	

Section III. SPECIAL TOOLS, TEST, AND SUPPORT EQUIPMENT

Not Applicable

Section IV. NATIONAL STOCK NUMBER AND REFERENCE NUMBER INDEX

<u>NSN</u>	<u>FIGURE NO.</u>	<u>ITEM NO.</u>	<u>NSN</u>	<u>FIGURE NO.</u>	<u>ITEM NO.</u>
2330-01-150-9864	D-4	1		D-8	5
2450-00-903-3503	D-3	1	5310-00-087-4652	D-2	4
2510-00-926-3517	D-7	2		D-5	4
2510-01-N73-0729	D-5	5	5310-00-087-7493	D-3	5
2510-01-N73-0794	D-5	6	5310-00-088-1251	D-2	10
2510-01-195-4273	D-6	2	5310-00-187-2413	D-2	14
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
2590-00-473-6331	D-2	1	5310-00-543-4717	D-2	12
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	5310-00-984-3806	D-4	5
5305-00-225-9081	D-4	6		D-5	9
5305-00-253-5616	D-2	20		D-6	5
5305-00-269-3210	D-2	2		D-8	6
5305-00-269-3213	D-5	2	5310-00-985-3806	D-3	6
5305-00-724-7222	D-1	2	5310-01-185-0586	D-1	3
5305-00-939-9204	D-7	3	5310-01-823-8803	D-1	4
5305-00-984-5691	D-2	6	5320-00-753-3830	D-3	3
5306-00-225-8398	D-3	4	5325-00-290-1960	D-2	22
5306-00-225-8499	D-4	3	5340-00-087-7676	D-7	6
	D-5	7	5340-00-975-2126	D-3	2
	D-8	3	5340-00-999-6277	D-2	7
5306-00-225-8500	D-6	3	5340-00-999-6441	D-7	7
5306-00-225-8503	D-4	7	5340-01-875-8820	D-5	1
5307-00-227-1741	D-2	17	5340-01-156-6142	D-7	1
5310-00-004-9129	D-2	14	5340-01-226-5766	D-8	7
5310-00-022-8847	D-2	16	5365-00-944-2692	D-4	8
5310-00-026-5824	D-2	15	5365-00-945-5998	D-4	10
5310-00-067-6356	D-7	5	5365-00-989-3304	D-8	8
5310-00-080-6004	D-2	3	5940-00-115-4992	D-2	24
	D-5	3	6115-00-118-1244	D-1	1
5310-00-081-4219	D-4	4	6115-01-876-2084	D-8	1
	D-5	8	6145-00-395-8799	D-2	25
	D-6	4	9905-01-085-7703	D-2	18

Section IV. NATIONAL STOCK STOCK NUMBER AND REFERENCE NUMBER INDEX (cont)

<u>Reference Number</u>	<u>FSCM</u>	<u>Fig. No.</u>	<u>Item No.</u>	<u>Reference Number</u>	<u>FSCM</u>	<u>Fig. No.</u>	<u>Item No.</u>
AN961-616S	81352	D-2	14	MS90725-34	96906	D-4	3
AN961-616T	81352	D-2	14		96906	D-5	7
MS16203-27	96906	D-2	13		96906	D-8	3
MS16203-39	96906	D-2	15	MS90725-35	96906	D-6	3
MS18015-1	96906	D-3	2	MS90725-36	96906	D-4	6
MS20613-4P5	96906	D-3	3	MS90725-39	96906	D-4	7
MS20659-110	96906	D-2	24		96906	D-8	4
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		96906	D-5	2
	96906	D-5	8	QQ-W-343	81348	D-2	25
	96906	D-6	4	ZZ-H-428	81348	D-2	23
	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
	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
hAS35435-28	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
	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
	96906	D-4	5	13214E1299	97403	D-7	6
	96906	D-5	9	13214E1300	97403	D-7	7
	96906	D-6	5	13214E1303	97403	D-7	1
	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	13216E7604-39	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:

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

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PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER			SIGN HERE	

The Metric System and Equivalents

Linear Measure

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

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigram = .035 ounce
 1 decagram = 10 grams = .35 ounce
 acres
 1 hectogram = 10 decagrams = 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

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
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
----	------------------------	----------------------------	---------------------	----

