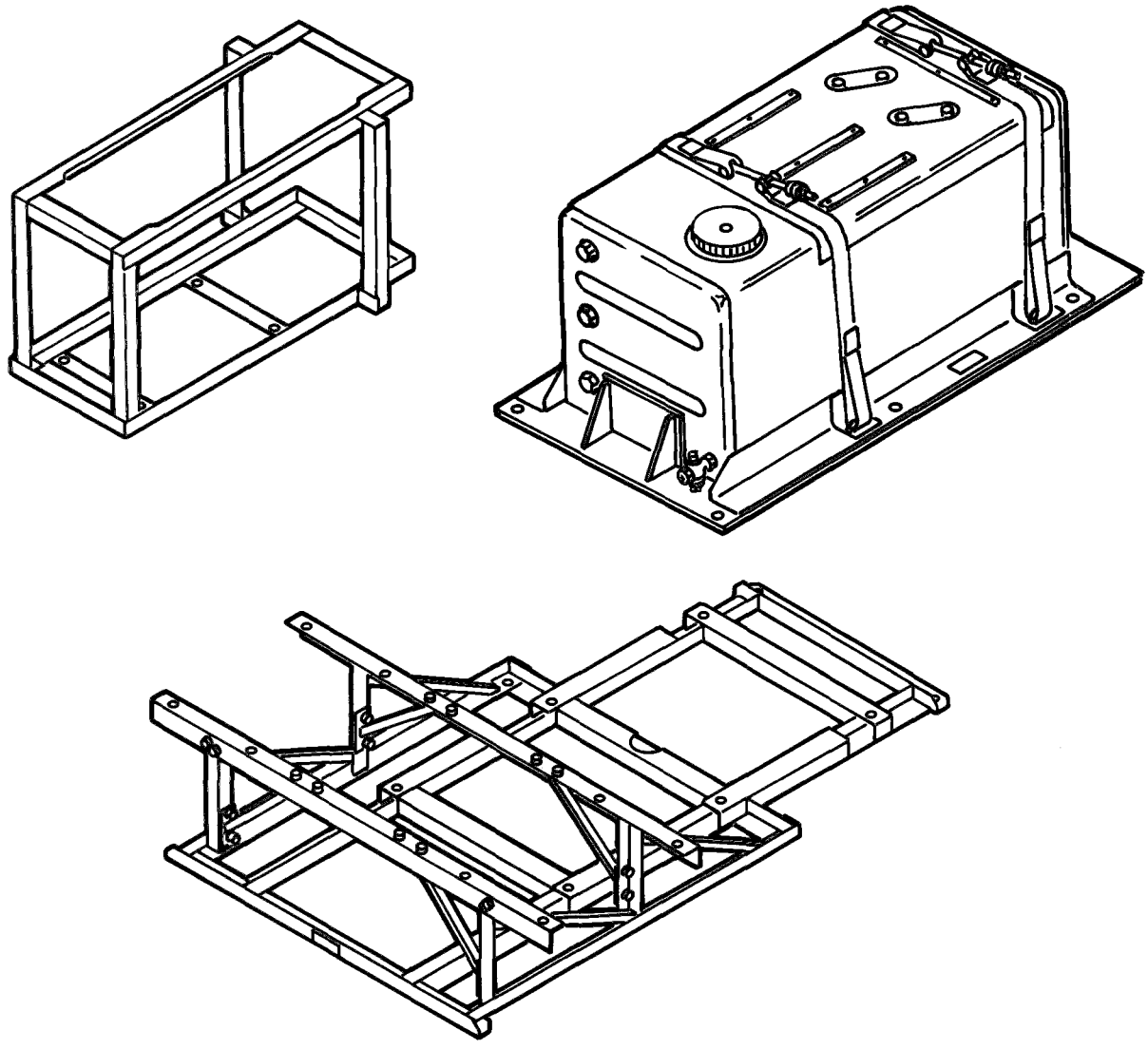
TM 3-1040-281-20&P

UNIT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

MOUNTING KIT, SMOKE GENERATOR: M288
(1040-01-248-6985)



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HEADQUARTERS, DEPARTMENT OF THE ARMY

NOVEMBER 1989

WARNINGS

Dry cleaning solvent is flammable and toxic. Keep it away from heat or open flames. Use in well ventilated area. Avoid breathing vapors. Failure to observe precautions may result in injury to personnal or damage to equipment.

Prolonged breathing of trichloroethane vapors can cause injury to the lungs, heart, liver, and/or kidneys. Use only in a well ventilated area. Do not use on hot surfaces. Wear neoprene gloves.

Always wear eye protection when drilling or when working under vehicle. Eye injury may result if metal chips or falling dirt get into eyes.

Use a brush when cleaning up metal chips to avoid injury to hands.

Surfaces covered with fog oil will become slippery and may cause personnel injury due to falls. Clean up all spillage or leakage of fog oil. Avoid spilling fog oil. Do not drain fog oil near open flames or while smoking.

TECHNICAL MANUAL

No. 3-1040-281-20&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC , *15 November 1989*

Unit Maintenance Manual
Including Repair Parts and Special Tools List

MOUNTING KIT, SMOKE GENERATOR: M288
(1040-01-24S-6985)

Current as of 18 October 1969 for appendix C

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedure, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2026-2 located in the back of this manual direct to Commander, US Army Armament, Munitions, and Chemical Command, ATTN: AMSMC-MAR-T (A), Aberdeen Proving Ground, MD21010-5423. A reply will be furnished to you.

CHAPTER 1
INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE.

a. *Type* of *Manual.* Unit Maintenance Manual including Repair parts and Special Tool List .

b. *Model Number and Equipment Name.* M288 Smoke Generator Mounting Kit.

c. *Purpose of Equipment.* Mounts up to two M3A4 Smoke Generators on the M998 or M1037 cargo/troop carrier.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS), as contained in Maintenance Management Update.

1-3. DESTRUCTION OF MATERIEL TO PREVENT ENEMY USE. Destroy mounting kit components by mechanical means, demolition, or gunfire as described in TM 43-0002-31.

1-4.PREPARATION FOR STORAGE OR SHIPMENT. Refer to chapter 2, section V for administrative storage instructions.

1-5. OFFICIAL NOMENCLATURE, NAMES, AND DESIGNATIONS. This listing includes nomenclature oross-references used in this manual.

Common Name	*Official Nomenclature*
Mounting Kit	Mounting Kit, Smoke Generator: M288
Fog oil tank assembly	Tank Unit, Liquid Dispenser
M996 or M1037 cargo/ troop carrier	Truck, Utility: Cargo/ Troop Carrier, 1-1 /4 Ton, 4 X 4, M998/M1037

1-6. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR's). If your mounting kit needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-QAD (R), Rock Island, IL 61299-6000. We'll send you a reply.

Section II. EQUIPMENT DESCRIPTION AND DATA

1-7. EQUIPMENT CHARACTERISTICS, CAPABILITIES AND FEATURES.

- Transports smoke generators
- Provides a stable operating platform
- Open-air design allows easy maintenance of equipment
- Provides storage of fuel and fog oil for smoke generator operation

1-8. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.

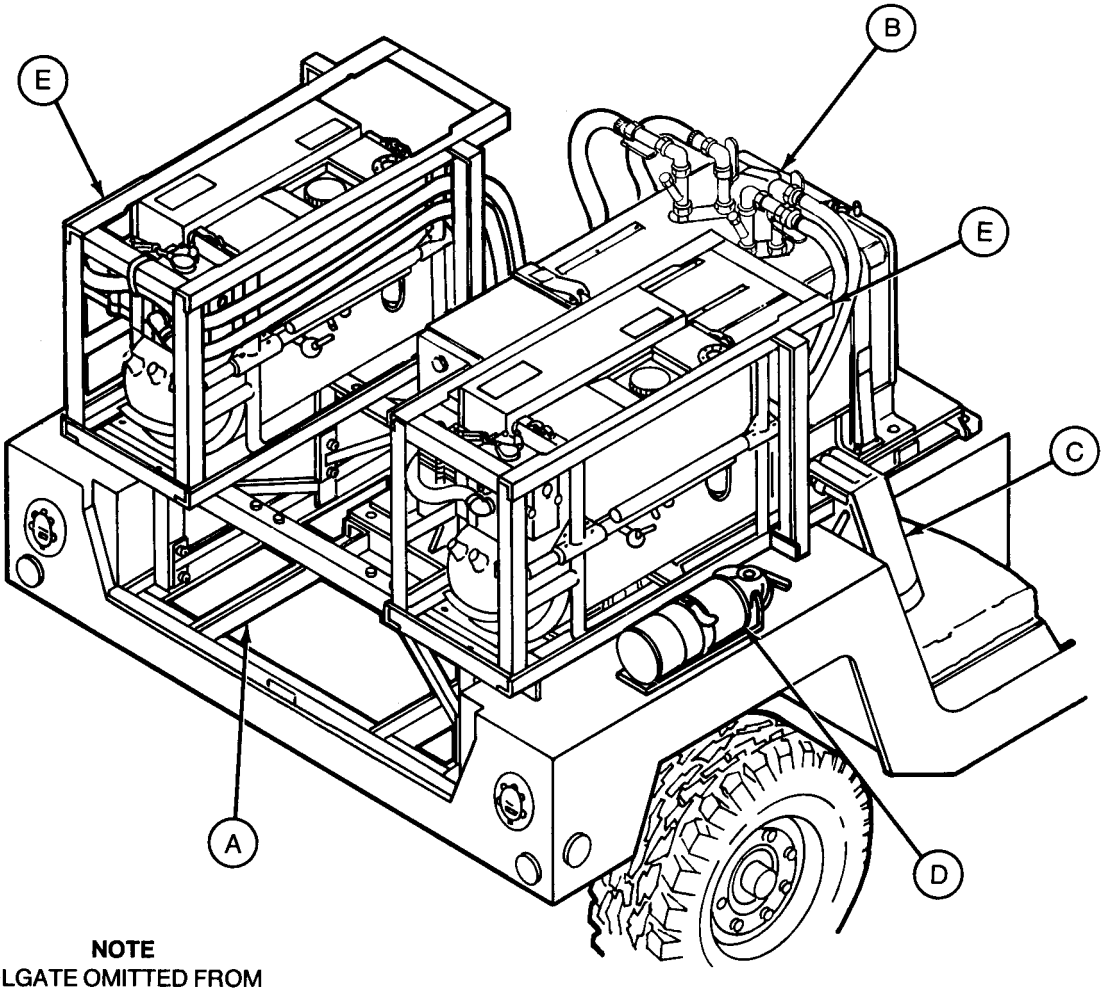
(A) FRAME ASSEMBLY. Rigid frame fabricated from angle iron and square tubular sections. Frame is bolted to the vehicle cargo bed using existing cargo tie down bolt holes.

(B) FOG OIL TANK ASSEMBLY. Holds up to 80 gallons of fog oil. Sight glasses on the tank allow fluid level to be checked quickly and easily.

(C) FUEL CANS. Standard 5-gallon military gasoline cans mounted on support brackets provided in accessory kit. One mounted at each rear seat location.

(D) FIRE EXTINGUISHER. Five pound dry chemical fire extinguisher. One mounted on each rear wheelhouse.

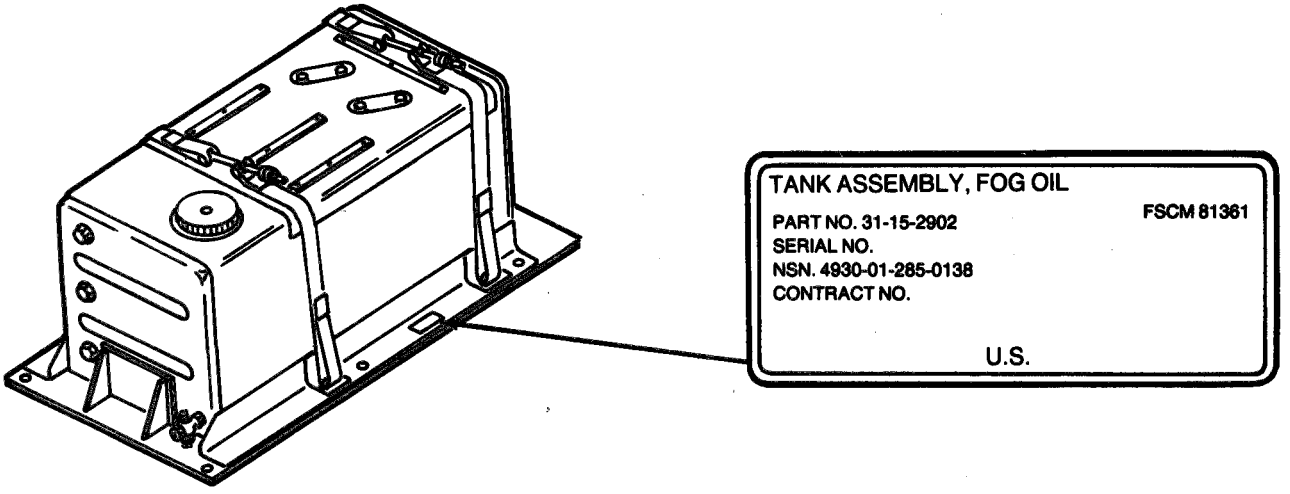
(E) CAGE MOUNT ASSEMBLY. Two piece rigid frame assembly fabricated from angle iron. Bottom mount is bolted to frame assembly. Top mount clamps smoke generator to bottom mount.

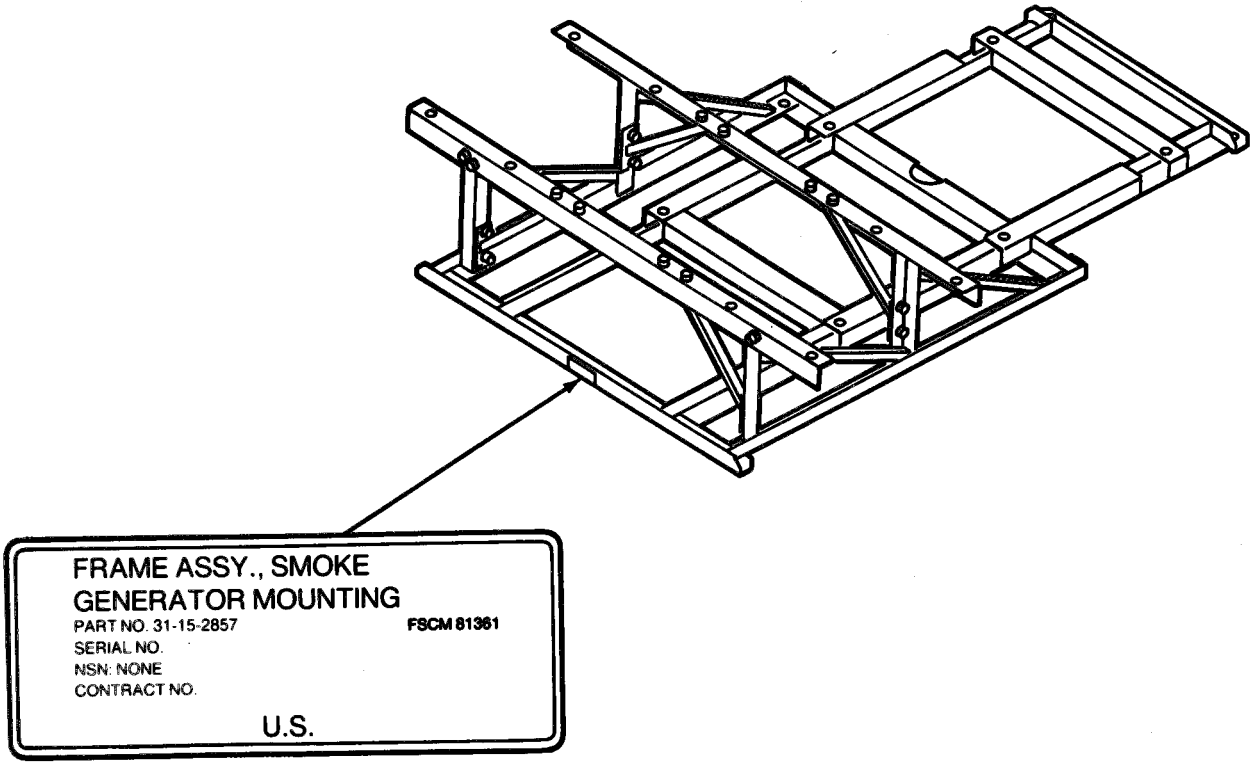


NOTE
TAILGATE OMITTED FROM VEHICLE FOR CLARITY THROUGHOUT MANUAL.

MAJOR COMPONENTS

1-9. LOCATION AND CONTENT OF IDENTIFICATION PLATES.





1-10. EQUIPMENT DATA.

a. *Frame Assembly.*

	(Uncrated)	*(Crated)*.
Length	86.75 in.	95.64 in.
Width	64.50 in.	75.00 in.
Height	17.00 in.	31.80 in.
Weight	304 lb	733 lb

b. *Fog Oil Tank Assembly.*

	(Uncrated)	*(Crated)*
Length	58.75 in.	60.00 in.
Width	30.00 in.	33.50 in.
Height	23.625 in.	27.00in.
Weight	182 lb	413 lb
Capacity	80 gal	

* Includes miscellaneous mounting hardware.

CHAPTER 2
MAINTENANCE INSTRUCTIONS

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

2-1. COMMON TOOLS AND EQUIPMENT. For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) assigned to your unit.

2-2. SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT. Refer to the Maintenance Allocation Chart (app B) for support equipment.

2-3. REPAIR PARTS. Repair parts are listed and illustrated in appendix C of this manual.

Section II. SERVICE UPON RECEIPT

2-4. CHECKING UNPACKED EQUIPMENT.

a. Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on SF 364, Report of Discrepancy (ROD).

b. Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies in accordance with the instructions of DA PAM 738-750.

c. Check to see whether the equipment has been modified (DA PAM 310-1).

2-5. INSTALLATION INSTRUCTIONS.

This task covers vehicle preparation and installation of the M288 mounting kit components.

INITIAL SETUP

Facilities and Equipment
- Shop area with overhead chain hoist or a 5-ton wrecker
- M3A4 smoke generator
- M998 or M1037 cargo/troop carrier
- *M288* mounting kit

Tools
- General Mechanic's Tool Kit
  - SC 5180-90-CL-N26
- Automotive Shop Equipment
  - SC 4910-95-CL-A74:
    - Portable drill-l /2 inch
    - Twist drills-7/32, 9/32, 13/32
    - Goggles
    - Torque wrench 0-170 ft-lb

Materials/Parts
- Plastic strip (item 7, app D)
- Tie down straps (item 11, app D)

Personnel Required
- One mechanic
- One assistant

References
- TM 9-2320-280-20
- TM 3-1040-276-10

General Safety Instructions
- Always wear eye protection when drilling or when working under vehicle. Eye injury may result if metal chips or falling dirt get into eyes.

2-5. INSTALLATION INSTRUCTIONS (CONT).

a. *Cargo/Troop Carrier.*

VEHICLE PREPARATION

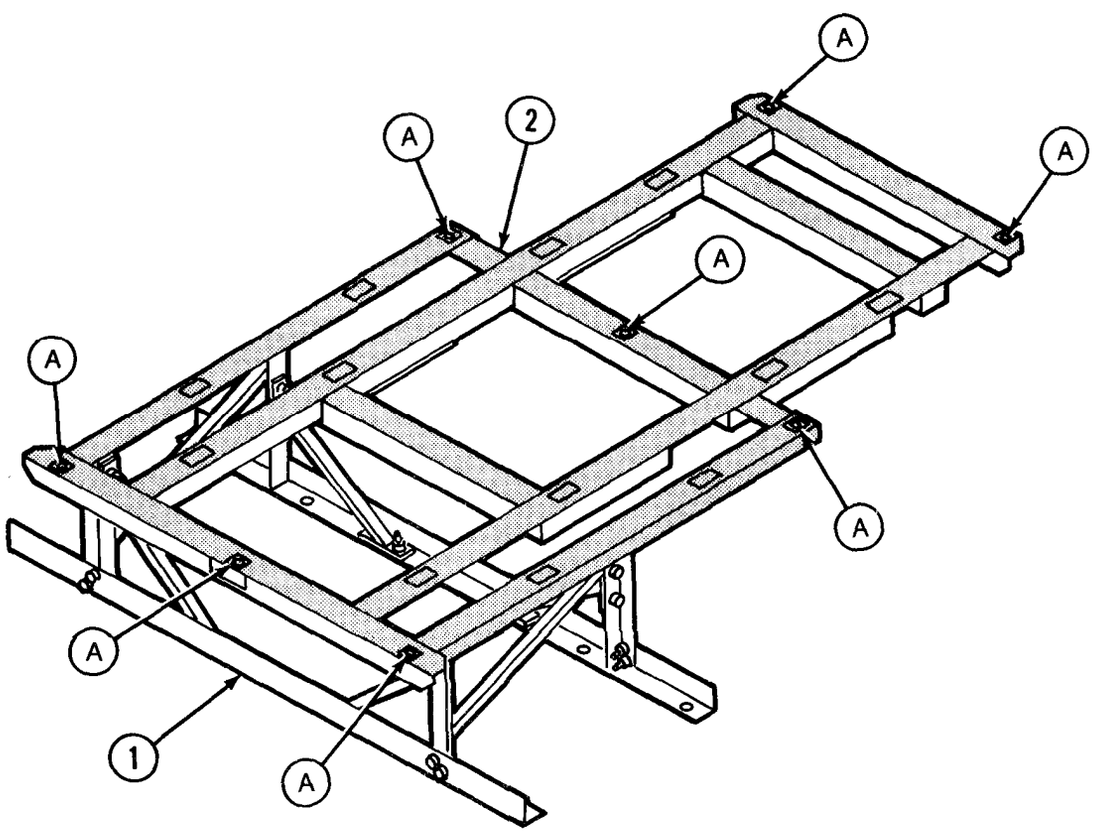
a. Cargo canvas top, bows, troop seats, fixed rear doors, rear seat backs, eight cargo tiedowns and bulkhead, if installed, must be removed and will not be reused with this kit. (Refer to TM 9-2320-280-20.)

b. Clean cargo bed.

b. *Frame Assembly,*

INSTALLATION

1

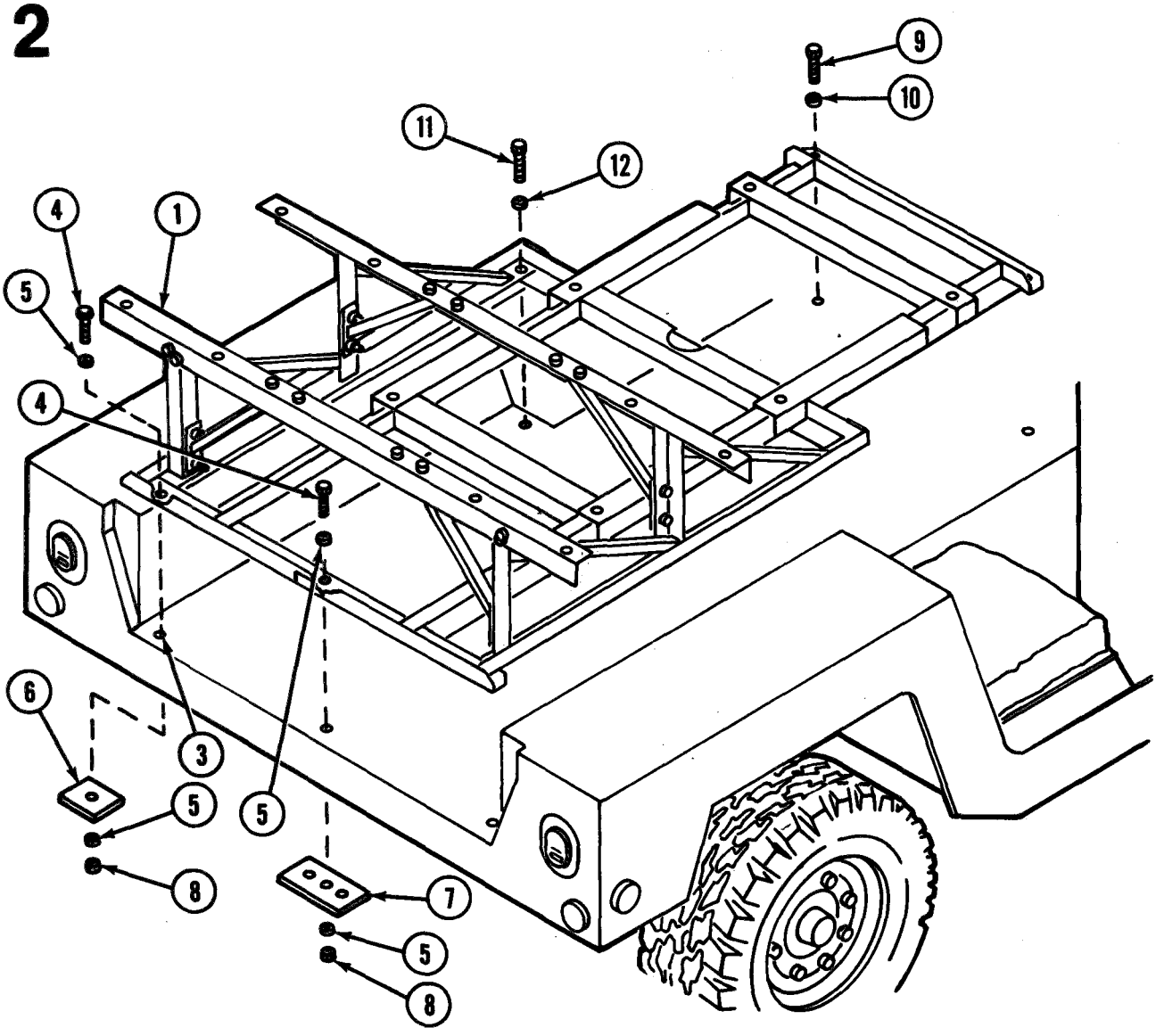


a. Remove bottom cage mounts if installed (p 2-14).

b. Lean frame assembly (1) against a wall to expose mounting surface or turn completely upside down.

c. Apply a layer of plastic strip (2) to frame assembly mounting surface. Cut out eight mounting holes(A) in plastic strip with knife.

2



CAUTION

Do not slide frame assembly into cargo bed. Parts and/or equipment will be damaged.

a. Using chain hoist or wrecker, position frame assembly (1) over mounting holes (3) in cargo bed.

NOTE

Screws (4) and longer than screws (9 and 11).

b. Secure rear of frame assembly with three screws (4), six Washers (5), two reinforcement plates (6), one reinforcement plate (7), and three nuts (8).

c. Secure front of frame assembly with two screws (9) and two washers (10).

d. Secure middle of frame assembly with three screws (11) and washers (12).

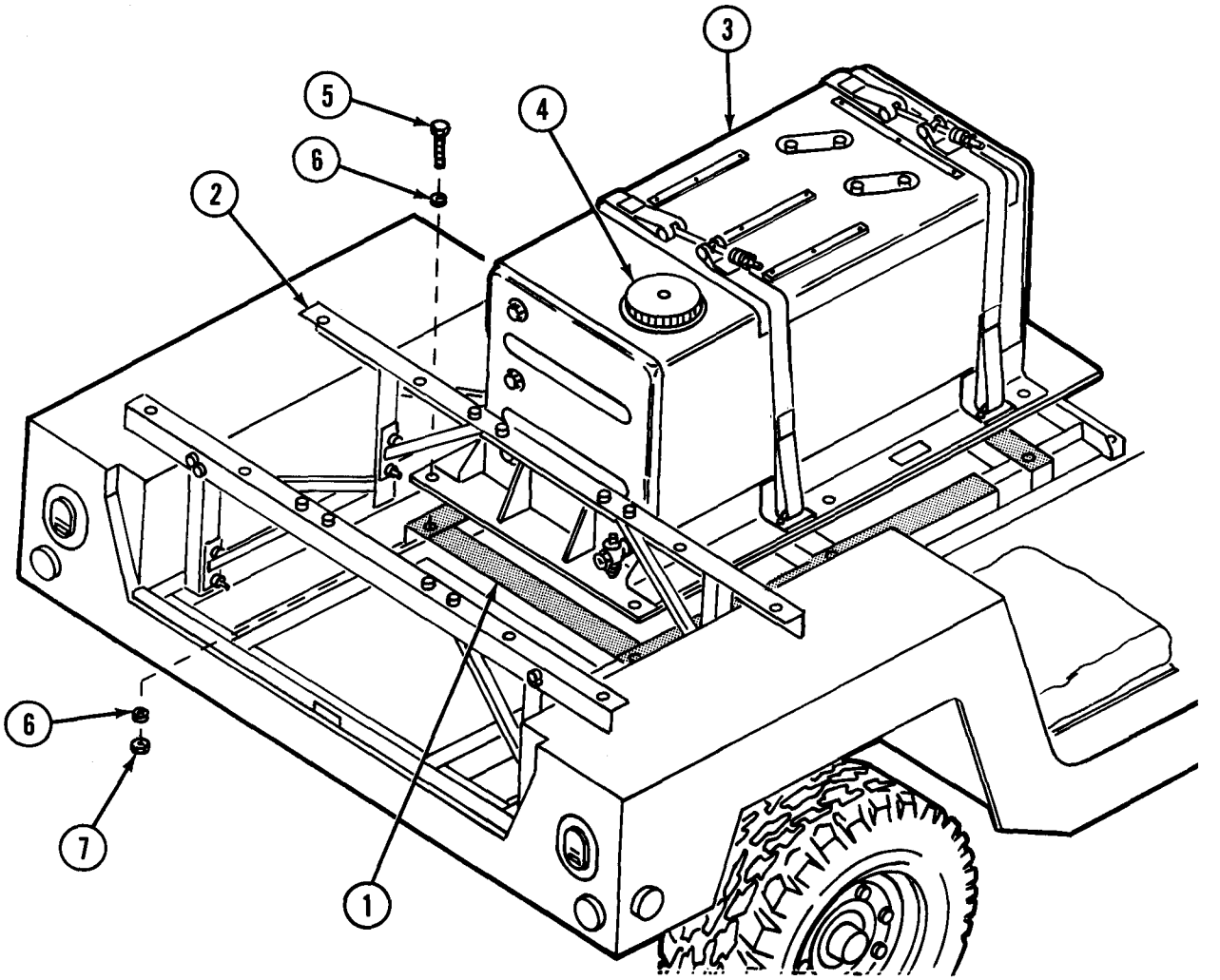
e. Torque screws (9 and 11) to 75 foot-pounds.

2-5. INSTALLATION INSTRUCTIONS (CONT).

c. *Fog Oil Tank Assembly.*

INSTALLATION

1



a. Apply a layer of plastic strip (1) to fog oil tank assembly mounting surface on frame assembly (2). Cut out six mounting holes in plastic strip with knife.

b. Using chain hoist or wrecker, position fog oil tank assembly (3) on frame assembly with fuel cap (4) to rear of vehicle. Secure fog oil tank assembly with 6 screws (5), 12 washers (6), and 6 nuts (7).

2

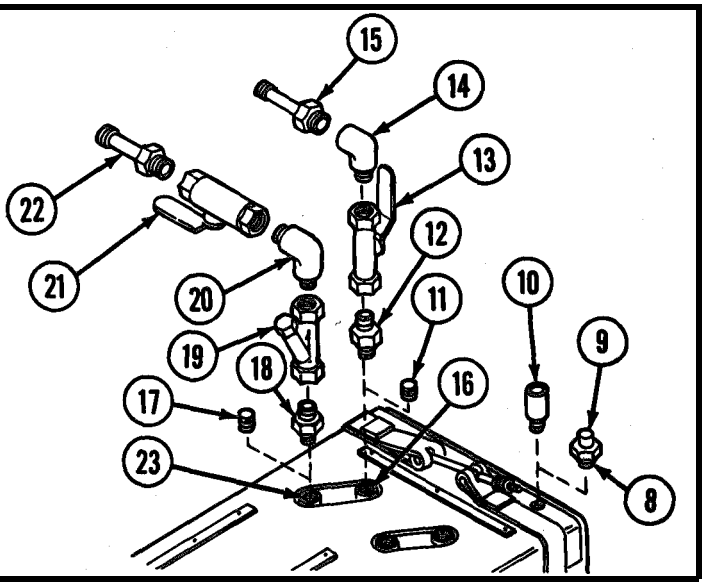
NOTE

Reducers, valves, elbows, adapters, and strainer are installed the same way on both sides of the fog oil tank except that elbows are at different angles. Discard parts removed.

a. Remove existing adapter (8) and cap (9) from fog oil tank and install check valve (10).

b. Remove protective plug (11) and install reducer (12), ball valve (13), elbow (14), and adapter (15) in fog oil tank return port (16).

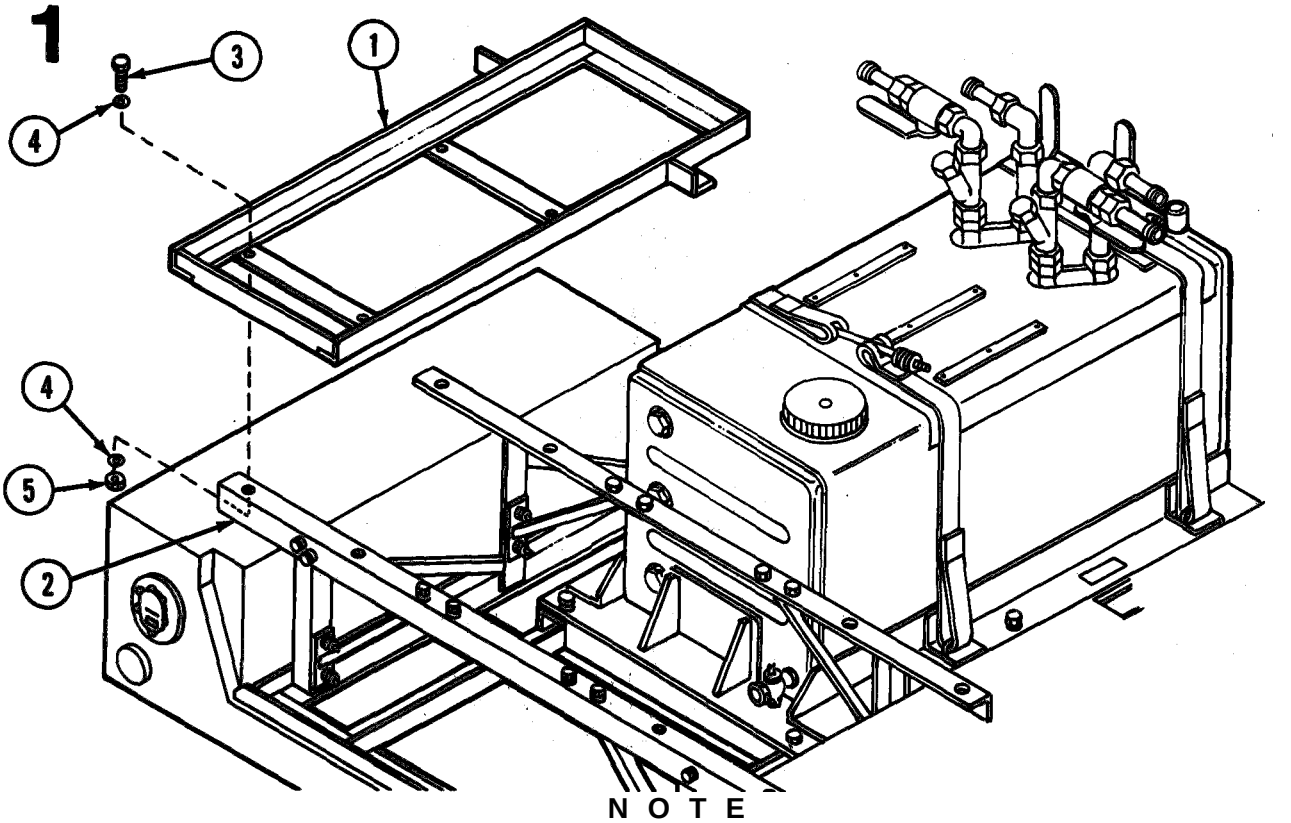
c. Remove protective plug (17) and install reducer (18), strainer assembly (19), elbow (20), ball valve (21), and adapter (22) in fog oil tank supply port (23).



d. *Cage Mount Assembly*

INSTALLATION

1



N O T E

Left and right cage mount assemblies are installed the same way.

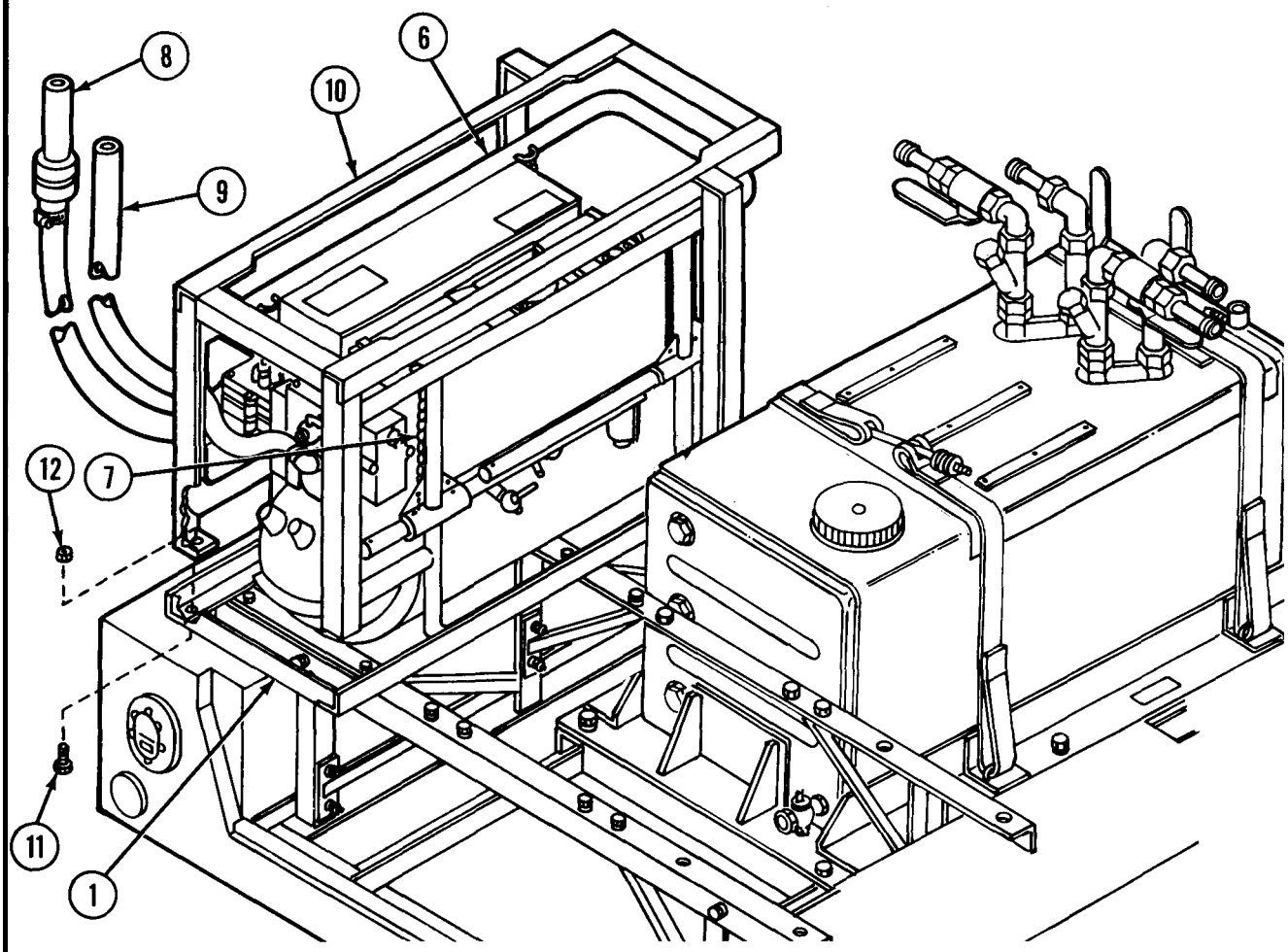
Position bottom cage mount (1) on frame assembly (2) and secure with four screws (3), eight washer (4), and four nuts (5).

2-5. INSTALLATION INSTRUCTIONS (CONT).

d. *Cage Mount Assembly (Cont).*

INSTALLATION (CONT)

2



a. Place smoke generator (6) in bottom cage mount (1) as shown.

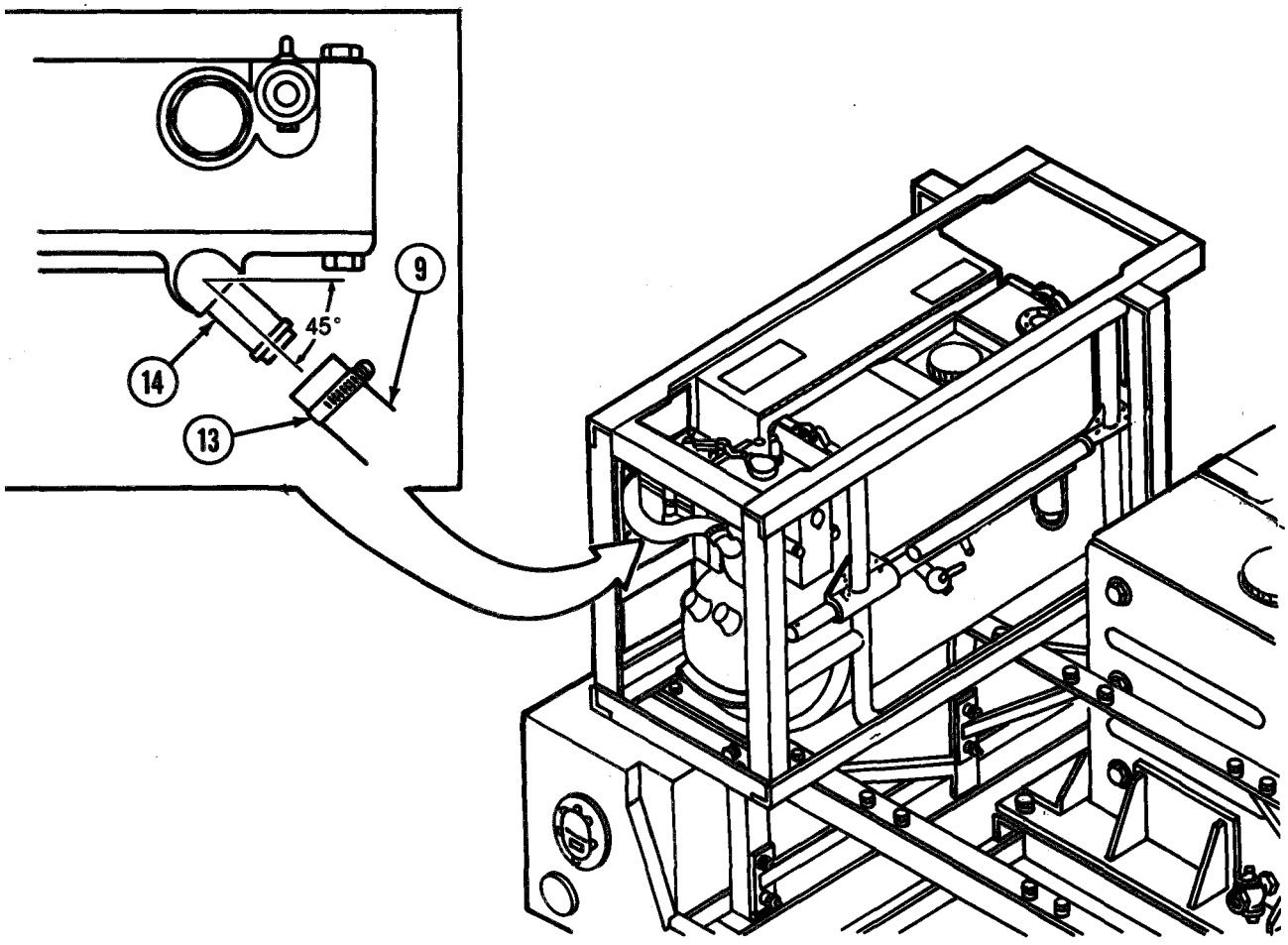
b. Unhook four hose chains (7) and unwind fog oil inlet hose (8) and fog oil exhaust hose (9).

NOTE

Top cage mount will not fully seat to bottom cage mount.

c. Position top cage mount (10) over smoke generator and install four screws (11). Tighten screws evenly to maintain a level generator position. Working in a crisscross pattern, tighten each screw a few turns at a time until a 5 foot-pound torque is obtained. Hold screws with a wrench and install four locknuts (12).

3



NOTE
This step applies to left smoke generator only.

a. Loosen hose clamp (13) on fog oil exhaust hose (9) and remove hose from elbow (14).

b. Reposition elbow (14) as shown.

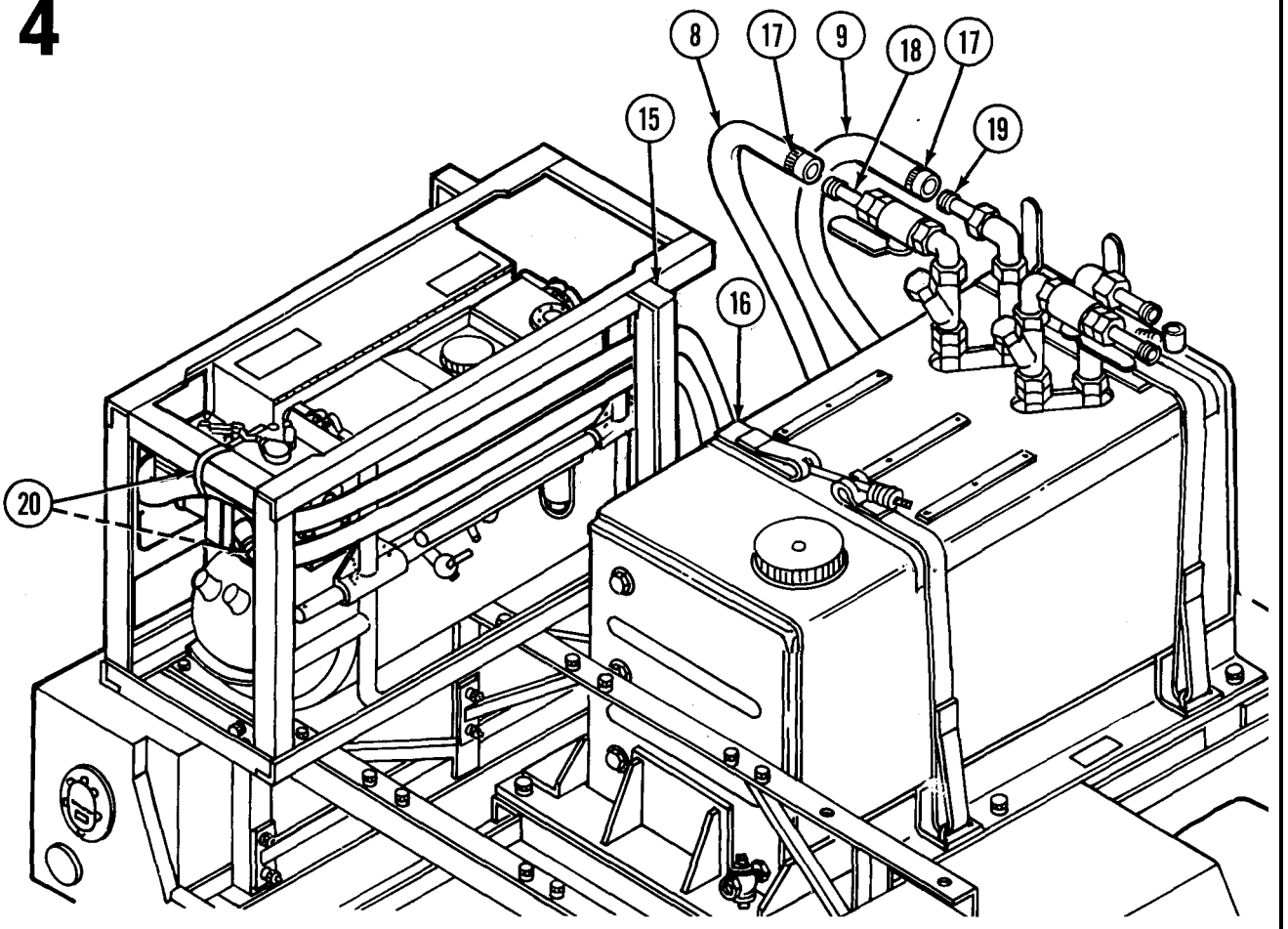
c. Reinstall fog oil exhaust hose (9) on elbow (14) and tighten hose clamp (13).

2-5. INSTALLATION INSTRUCTIONS (CONT).

d. *Cage Mount Assembly (Cont)*

INSTALLATION (CONT)

4



a. Cut fog oil inlet hose (8) on left smoke generator to 8-1 /2 feet in length.

b. Cut fog oil inlet hose on right smoke generator to 5-1 /2 feet in length.

c. Route fog oil inlet and exhaust hoses (8 and 9) on inboard sides of smoke generators between smoke generator and cage mount leg (15) and then under rear retaining strap (16) of fog oil tank.

d. Slide hose clamps (17) on ends of hoses (8 and 9).

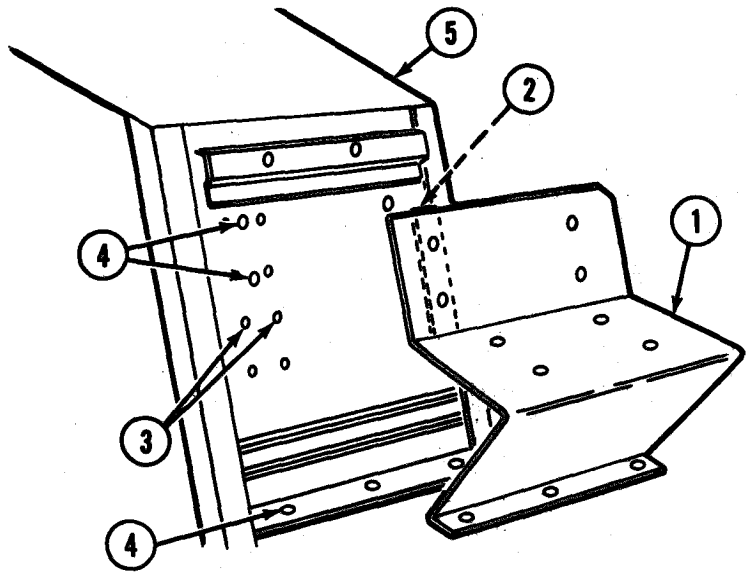
e. Install fog oil inlet hose (8) on fog oil tank supply adapter (18) and fog oil exhaust hose (9) on fog oil tank return adapter (19). Tighten hose clamps (17).

f. Secure fog oil inlet hose to top cage mount and to fog oil exhaust hose with tie down straps (20).

e. Fuel Can Base Plate and Bracket Assembly.

INSTALLATION

1



WARNING

Always wear eye protection when drilling. Eye injury may result if metal chips get into eyes.

Use a brush when cleaning up metal chips to avoid injury to hands.

NOTE

Left and right fuel can base plates are installed the same way at each rear seat location. Right side shown; left side is opposite.

a. Using left and right fuel can base plates (1) as templates and bracket reinforcements (2) positioned between rivets (3), locate, mark, center punch, and drill seven 7/32-inch diameter pilot holes (4) in each wheelhouse (5).

b. Enlarge pilot holes using a 13/32-inch drill.

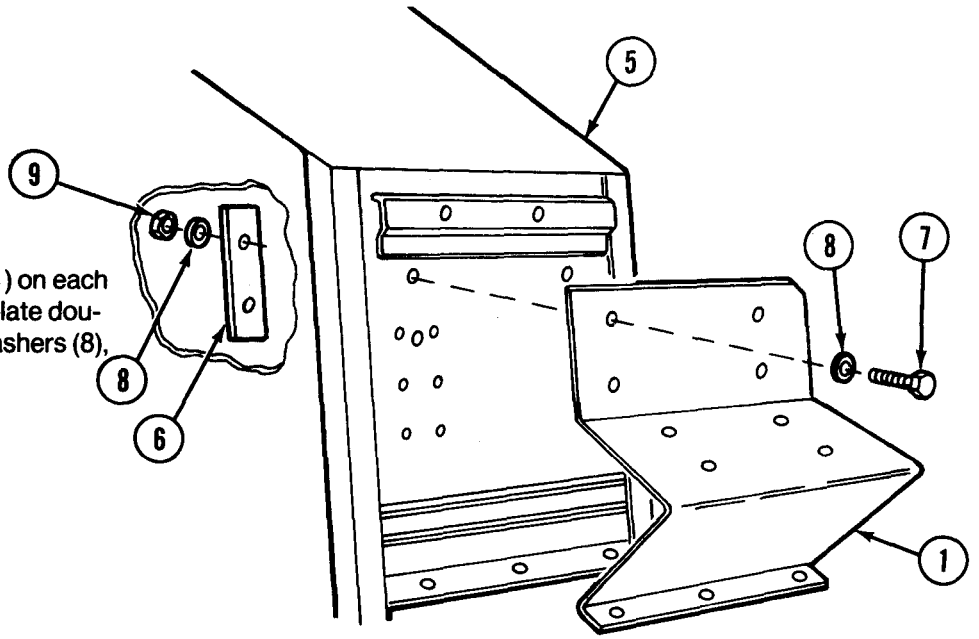
2-5. INSTALLATION INSTRUCTIONS (CONT).

e. Fuel Can Base Plate and Bracket Assembly (Cont).

INSTALLATION (CONT)

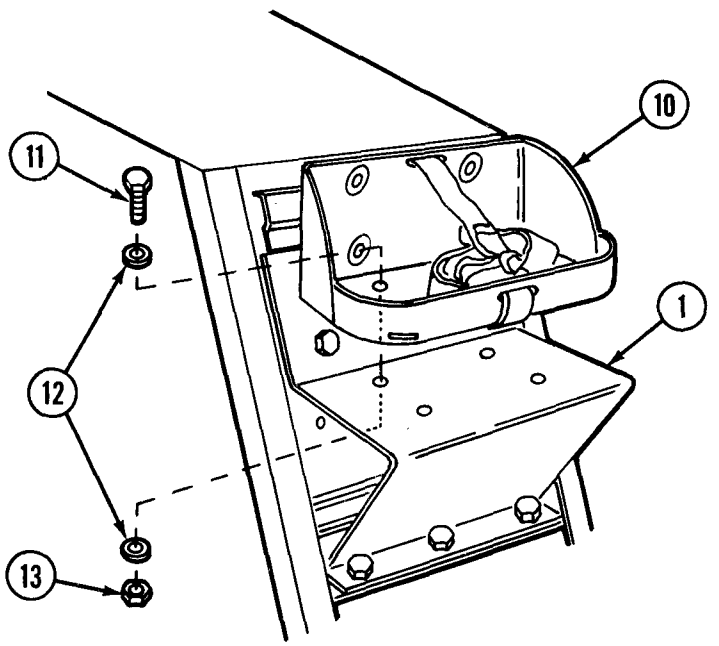
2

Install fuel can base plate (1) on each wheelhouse (5) with base plate doubler (6), 7 screws (7), 14 washers (8), and 7 nuts (9).



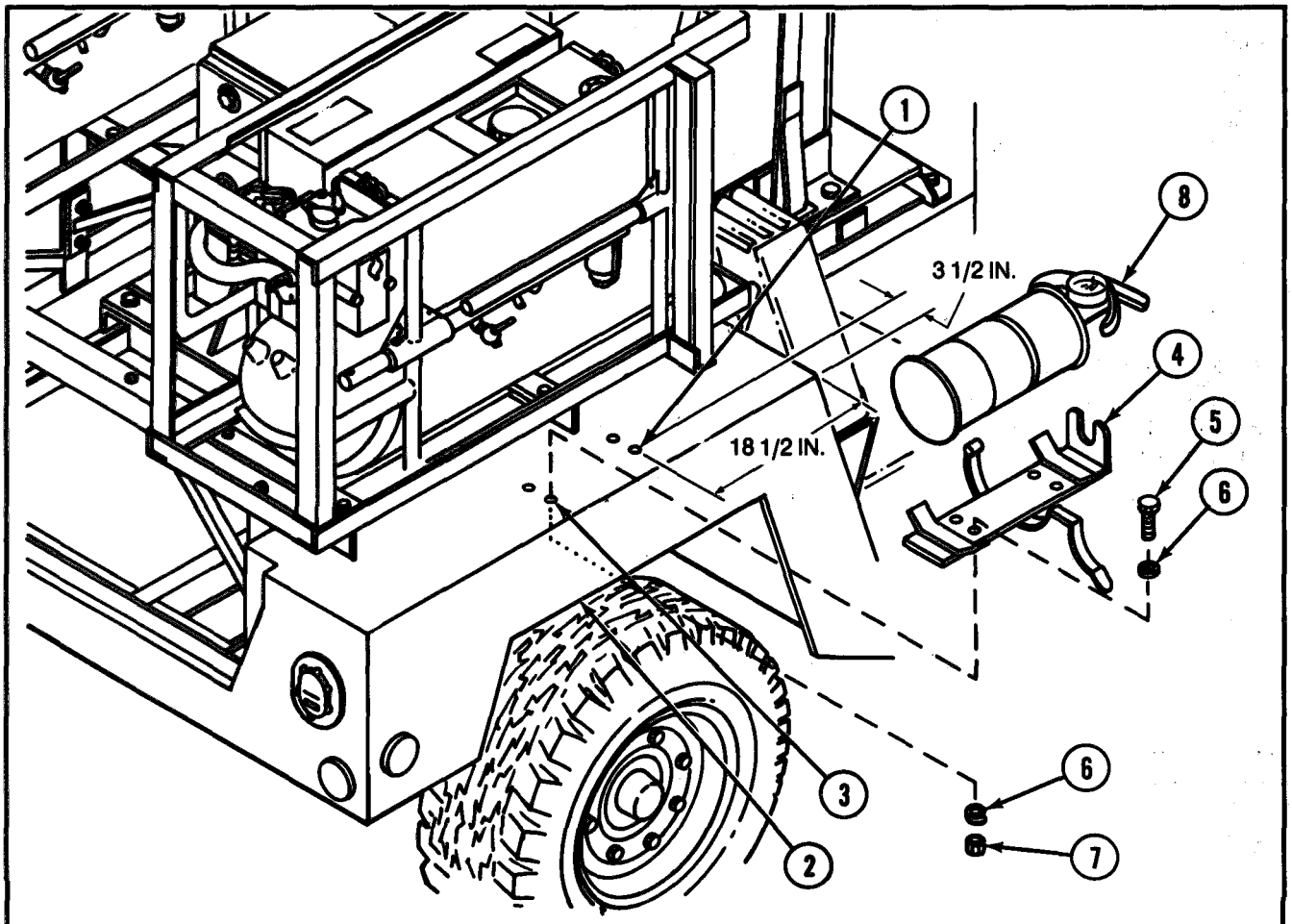
3

Install fuel can bracket assembly (10) on each base plate (1) with four screws (11), eight washers (12), and four nuts (13).



f. *Fire Extinguisher.*

INSTALLATION



WARNING

Always wear eye protection when drilling. Eye injury may result if metal chips get into eyes.

Use a brush when cleaning up metal chips to avoid injury to hands.

NOTE

Left and right fire extinguisher brackets are installed the same way.

a. Locate and mark hole (1) on top of wheelhouse (2) 18-1/2 inches from front edge and 3-1/2 inches from side.

b. Locate and mark remaining three holes (3) using fire extinguisher bracket (4) as a template parallel to side of wheelhouse.

c. Center punch and drill four 9/32-inch diameter holes.

d. Install fire extinguisher bracket on wheelhouse with four screws (5), eight washers (6), and four nuts (7).

e. Install fire extinguisher (8) in bracket.

2-6. OPERATIONAL CHECK.

a. Fill fog oil tank to top sight glass level.

b. Perform before operation PMCS (TM 3-1040-276-10).

c. Fuel and operate smoke generator (TM 3-1040-276-10).

Section III. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

2-7. PMCS PROCEDURES.

a. *Purpose.* The purpose of unit PMCS is to systematically and periodically inspect and service the M288 mounting kit.

(1) To insure that the equipment is ready for operation at all times.

(2) To perform those PMCS procedures that are beyond the capability of the operator/crew.

(3) To discover and correct defects before they result in serious damage or failure requiring time consuming repairs or replacement.

b. *Use.*

(1) Use the semiannual schedule below as a check list each time you perform the PMCS to make sure that you perform all required procedures.

(2) Report and record all deficiencies and shortcomings, together with corrective actions taken, on DA Form 2404, Equipment Inspection and Maintenance Worksheet.

c. Explanation of Columns on the PMCS Schedule.

(1) Item number column. Checks and services are numbered in order of performance. Use this column as a source of item numbers for the TM Number Column on DA Form 2404, Equipment Inspection and Maintenance Worksheet, in recording results of PMCS.

(2) Item to be inspected column. The items listed in this column are divided into groups indicating the portion of the equipment of which they are part. The common name or official nomenclature as shown on the maintenance allocation chart (app B) is used for this purpose.

(3) Procedures column. This column briefly describes the procedure for performing the check or service. Whenever replacement or repair is recommended, reference is made to page number for the applicable maintenance instruction.

PREVENTIVE MAINTENANCE CHECKS AND SERVICES SEMIANNUAL SCHEDULE

Item No.	Item to be Inspected	Procedures
1	M288 Mounting Kit	Check all components to insure they are securely mounted to vehicle. Tighten loose bolts or replace missing hardware as required.
2		Inspect components for rust, chipped paint or bare metal on painted surfaces. Repaint or touch up as necessary (p 2-13).
3	Fog Oil Tank Assembly	Check that fog oil hoses are not torn, cracked, twisted or collapsed. Replace as required (p 2-23).

Section IV. MAINTENANCE PROCEDURES

2-8. INTRODUCTION.

a. This section contains maintenance procedures which are the responsibility of the unit maintenance technician as authorized by the maintenance allocation chart (MAC) (app B) and source, maintenance, and recoverability (SMR) coded items in the repair parts and special tools list (RPSTL).

b. Disassemble component only as needed for repair.

2-9. M288 MOUNTING KIT

This task covers painting and replacement of:

a. Cage Mount Assembly
b. Fog Oil Tank Assembly
c. Frame Assembly
d. Fuel Oil Bracket Assembly
e. Fuel Can Base Plate
f. Fire Extinguisher
g. Fog Oil Hoses
h. Strainer Assembly/Ball Valve

INITIAL SETUP

Facilities and Equipment
Shop area with overhead chain hoist or a 5-ton wrecker
Drain hose (fig E-3, app E)

Tools and Special Tool
General Mechanic's Tool Kit
SC 5180-90-CL-N26
Automotive Shop Eqiupment
SC 4910-95-CL-A74:
Torque wrench O-170 foot-pounds
Drain pan

Materials/Parts
Abrasive cloth (item *4,* app D)
Dry cleaning solvent (item *5,* app D)
Paint brush (item 2, app D)
Plastic strip (item 7, app D)
Polyurethane coating (item 8, app D)
Primer coating (item 6, app D)
Rag (item 9, app D)
Tie down straps (item 11, app D)

Personnel Required
One mechanic
One assistant

References
TM 43-0139

PAINTING

a. Remove corrosion and chipped paint.

WARNING

Dry clearing solvent is flammable and toxic. Keep it away from heat or open flames. Use in well ventilated area. Avoid breathing vapors. Failure to observe precautions may result in injury to personnel or damage to equipment.

b. Clean surface to be painted using rags and dry cleaning solvent.

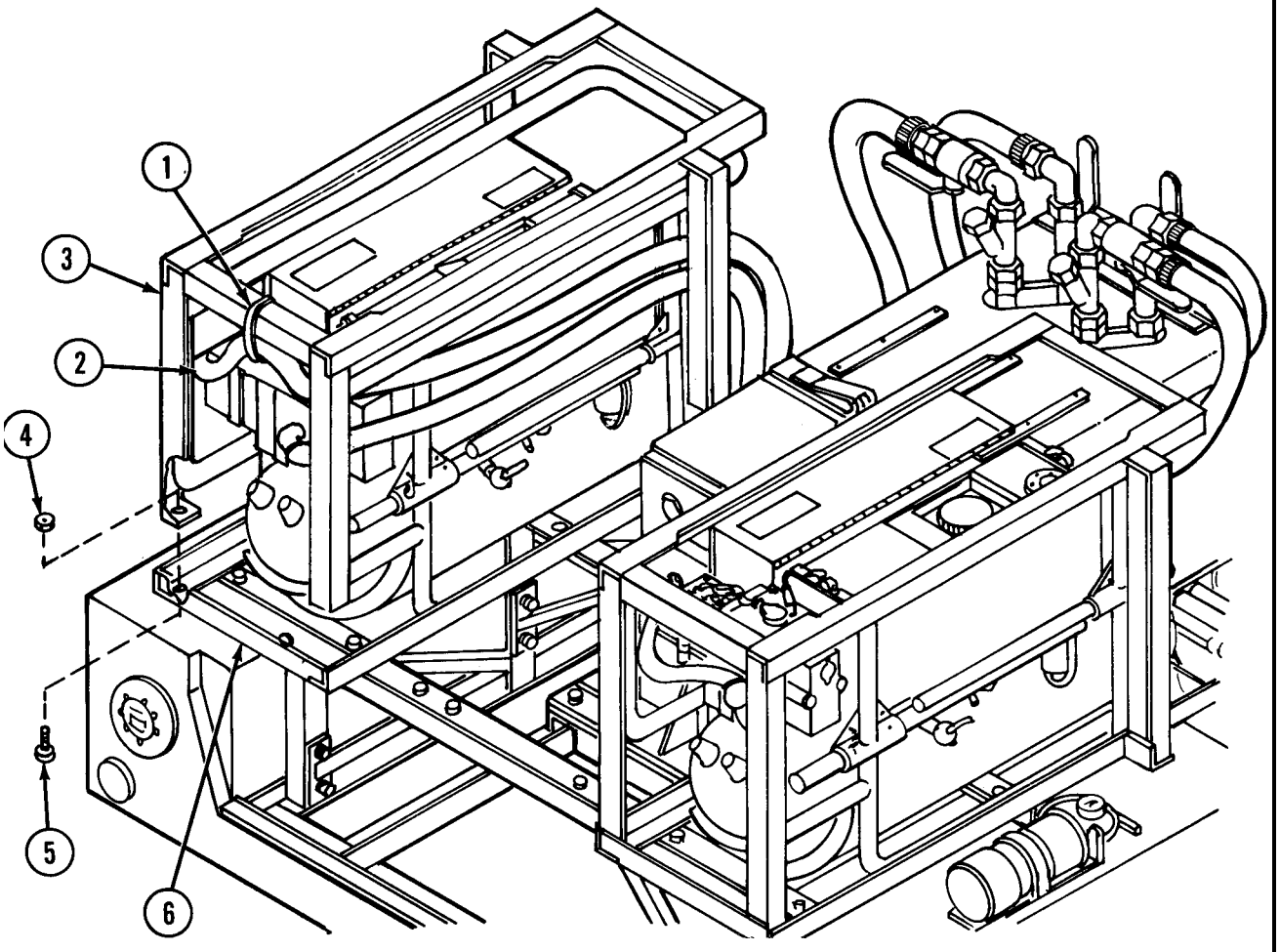
c. Paint surface with primer coating and polyurethane coating. See TM 43-0139.

2-9. M288 MOUNTING KIT.

a. *Cage Mount Assembly*

REMOVAL

1



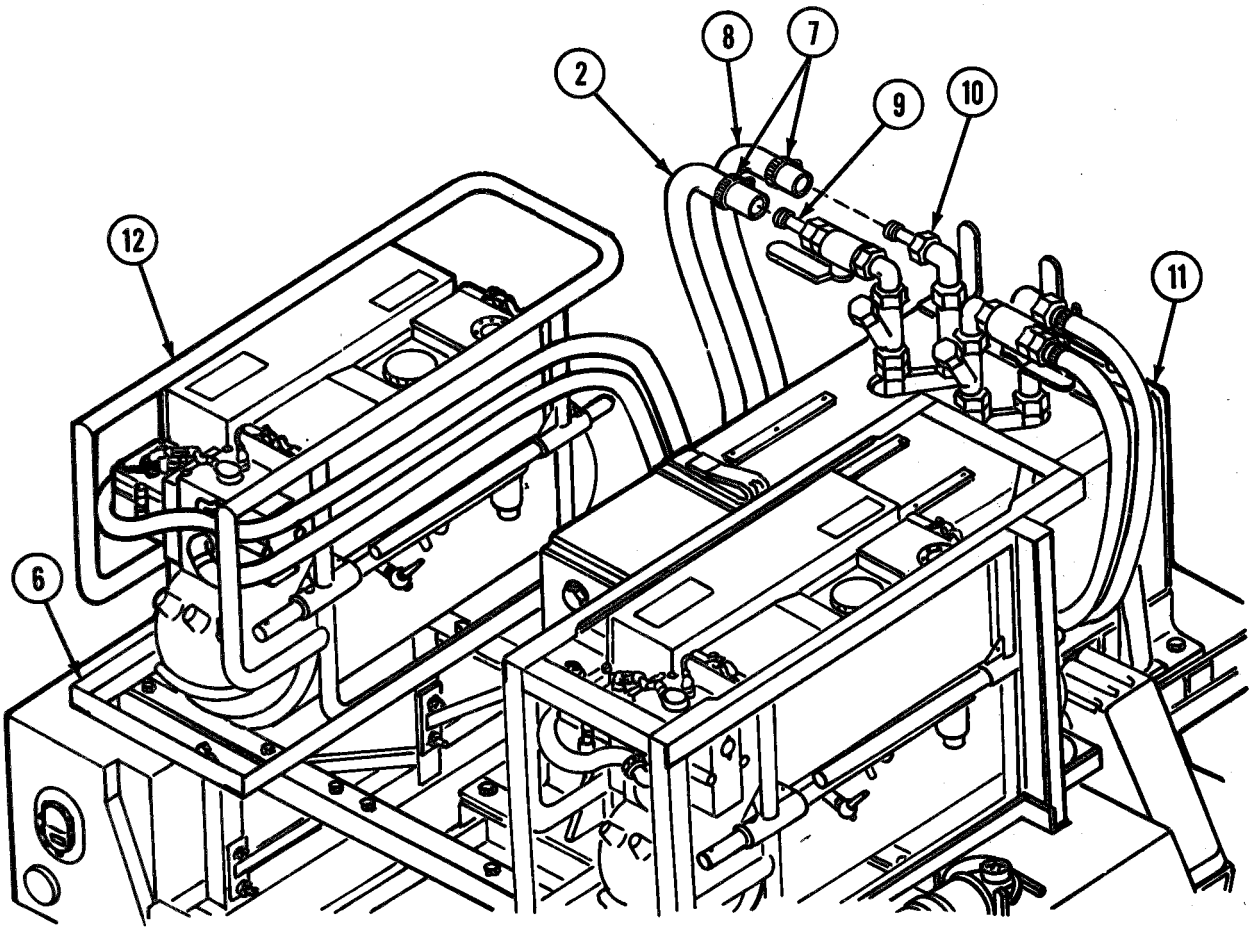
NOTE

Procedure is the same for right and left cage mount assemblies.

a. Remove tie down strap (1) securing fog oil inlet hose (2) to top cage mount (3).

b. Remove four locknuts (4) and screws (5) securing top cage mount (3) to bottom cage mount (6). Remove top cage mount.

2



WARNING

Fog oil is very slippery. Clean up all spills immediately to prevent injury to personnel. Do not drain fog oil near open flame or while smoking.

NOTE

Hoses may contain fog oil. Have a suitable container available.

a. Loosen fog oil hose clamps (7) and pull fog oil hoses (2 and 8) from adapters (9 and 10) on fog oil tank (11).

b. Drain hoses into a container.

c. Remove smoke generator (12) from bottom cage mount (6).

2-9. M288 MOUNTING KIT (CONT).

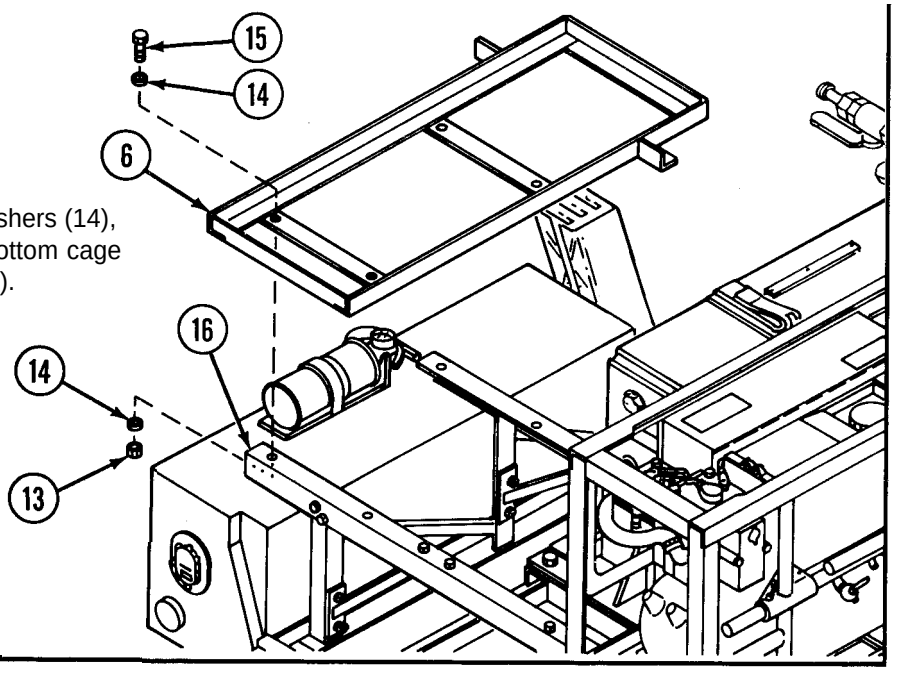
a. *Cage Mount Assembly (Cont).*

REMOVAL (CONT)

3

a. Remove four nuts (13), eight washers (14), and four screws (15) securing bottom cage mount (6) to frame assembly (16).

b. Remove bottom cage mount.

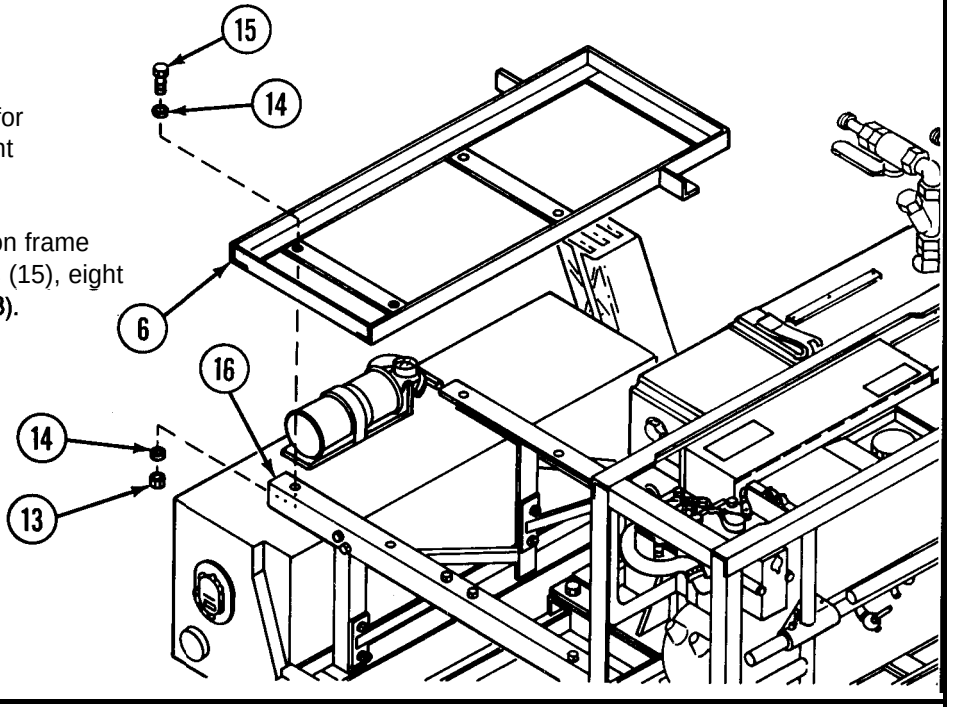


INSTALLATION

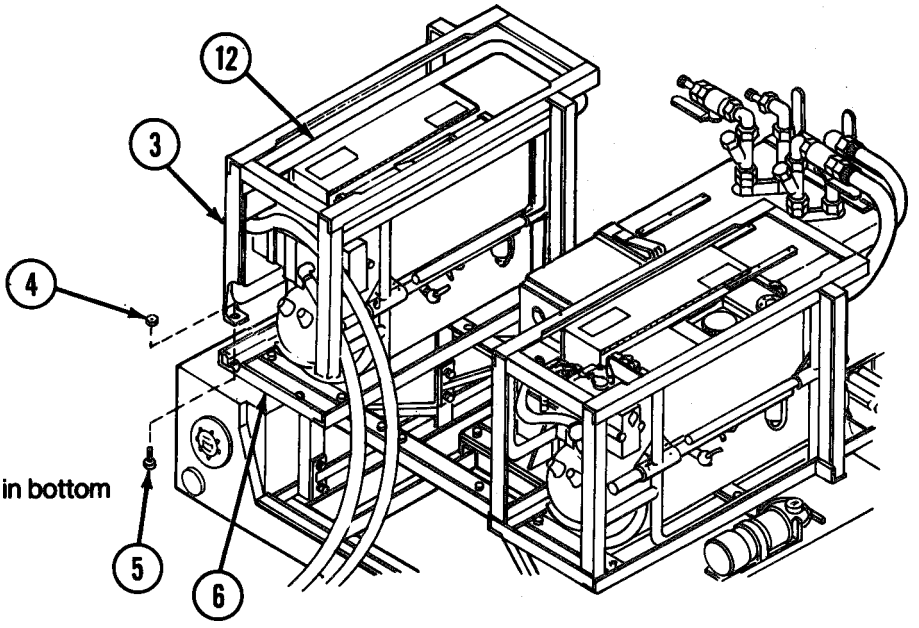
1

NOTE
Procedure is the same for right and left cage mount assemblies.

Install bottom cage mount (6) on frame assembly (16) with four screws (15), eight washers (14), and four nuts (13).



2



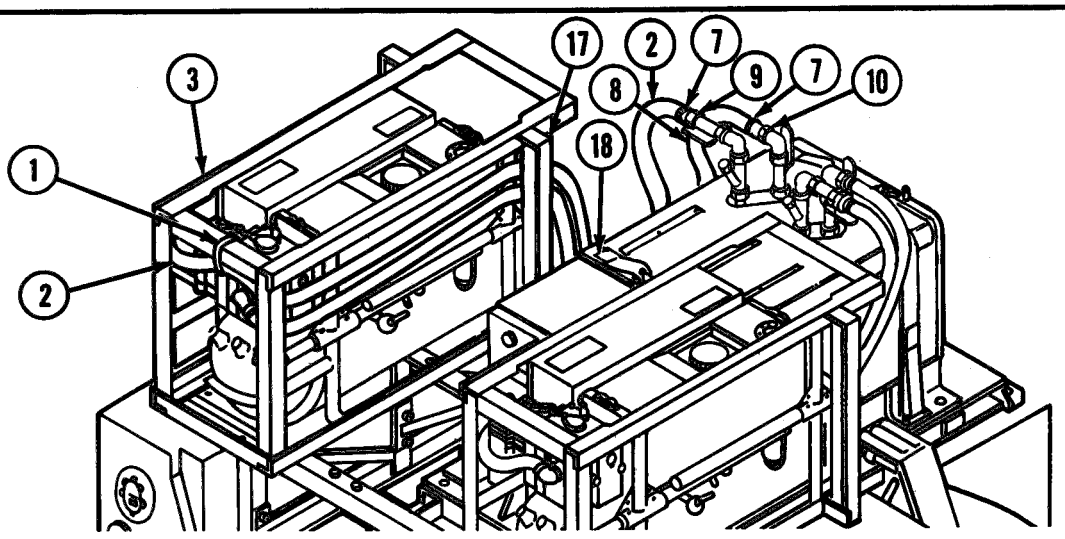
a. Place smoke generator (12) **in bottom** cage mount (6).

NOTE

Top cage mount will not fully seat to bottom cage mount.

b. Position top cage mount (3) over smoke generator and install four screws (5). Tighten screws evenly to maintain a level generator position. Working in a crisscross pattern, tighten each screw a few turns at a time until a 5 foot-pound torque is obtained. Hold screws with wrench and install four locknuts (4).

3



NOTE

Step a. applies to left smoke generator only.

a. Secure fog oil inlet hose (2) to top cage mount (3) with tie down strap (1).

b. Route fog oil inlet hose (2) and fog oil exhaust hose (8) on inboard side of smoke generators between smoke generator and cage mount leg (17) and then under rear retaining strap (18) of fog oil tank.

c. Connect fog oil inlet hose (2) on fog oil tank supply adapter (9) and fog oil exhaust hose (8) on fog oil tank return adapter (10). Tighten fog oil hose clamps (7).

2-9. M288 MOUNTING KIT (CONT).

b. Fog Oil Tank Assembly.

REMOVAL

1

WARNING

Fog oil is very slippery. Cleanup all spills immediately to prevent injury to personnel. Do not drain fog oil near open flames or while smoking.

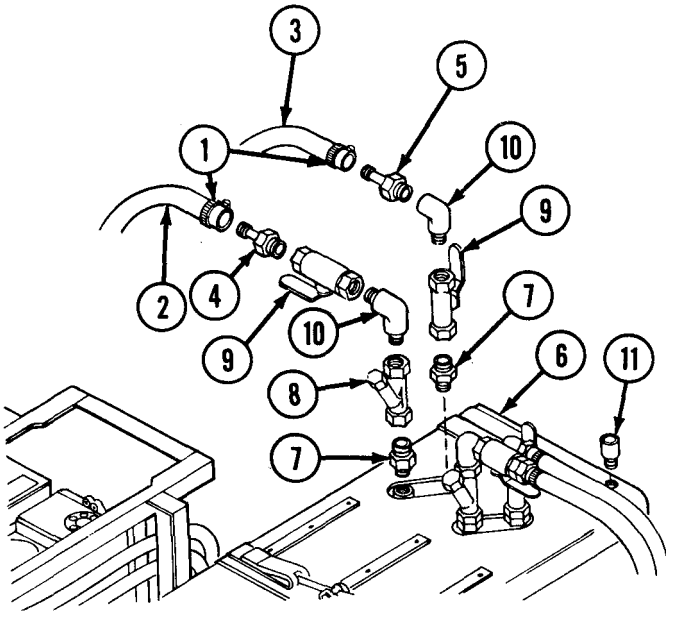
NOTE

Reducers, valves, elbows, adapters, and strainer assemblies are removed from both sides of the fog oil tank assembly the same way. Hoses may contain fog oil. Have a suitable container available.

a. Loosen fog oil hose clamps (1) and pull hoses (2 and 3) from adapters (4 and 5) and on fog oil tank (6). Drain hoses into a container.

b. Remove reducers (7), strainer (8), valves (9), elbows (10), and adapters (4 and 5) from fog oil tank.

c. Remove check valve (11).



d. Remove one of the cage mount assemblies and smoke generator (p 2-14).

2

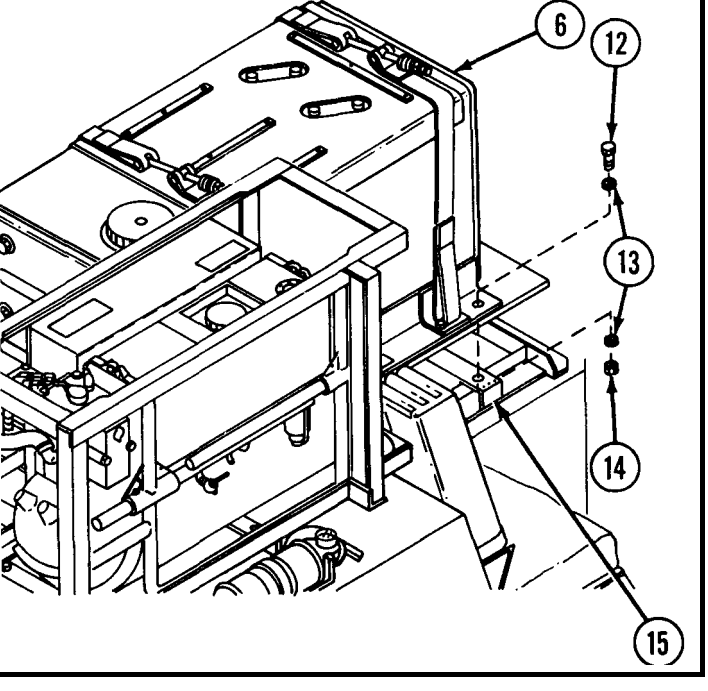
WARNING

Fog oil is very slippery. Clean up all spills immediately to prevent injury to personnel. Do not drain fog oil near open flames or while smoking.

a. Connect drain hose (fig E-3, app E) to plug valve on fog oil tank and drain tank into a suitable container. Close plug valve and disconnect drain hose.

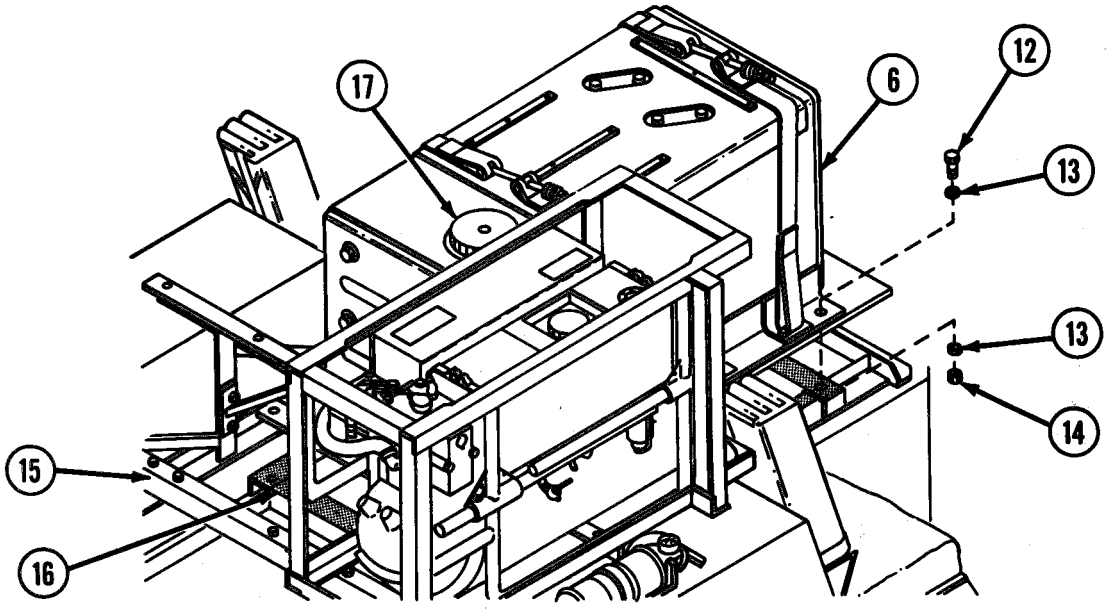
b. Remove 6 screws (12),12 washers (13), and 6 nuts (14) securing fog oil tank assembly (6) to frame assembly (15).

c. Remove fog oil tank assembly from frame assembly using a chain hoist or wrecker.



INSTALLATION

1



a. Apply a layer of plastic strip (10) to fog oil tank assembly mounting surface on frame assembly (15) (p2-4). Cut out six mounting holes in plastic strip with knife.

b. Position fog oil tank (6) on frame assembly with fuel cap (17) to rear of vehicle. Secure fog oil tank assembly with 6 screws (12), 12 washers (13), and 6 nuts (14).

2

NOTE

Reducers, valves, elbows, adapters, and strainer are installed the same way on both sides of the fog oil tank except that elbows are at different angles. Discard parts removed.

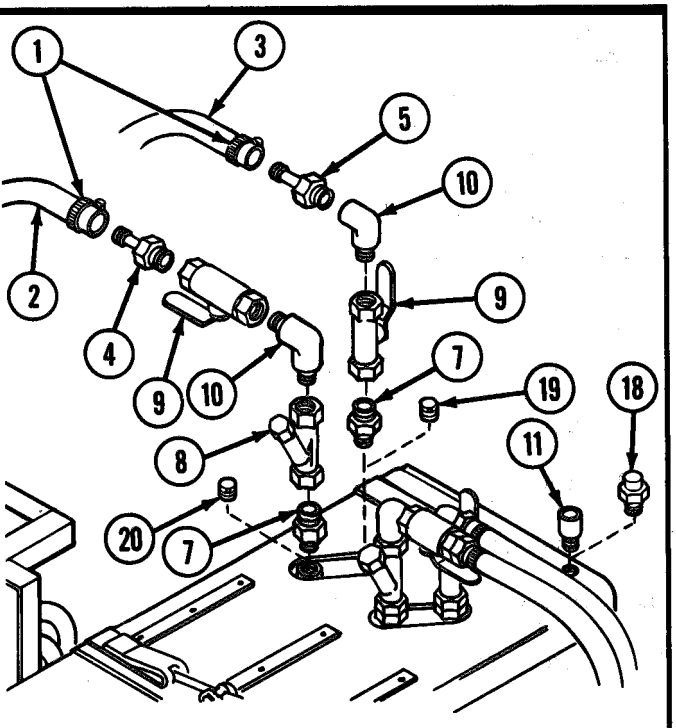
a. Remove adapter (18) and cap from fog oil tank and install check valve (11).

b. Remove protective plug (19) and install reducer (7), ball valve (9), elbow (10), and adapter (5) in fog oil tank supply port.

c. Remove protective plug (20) and install reducer (7), strainer assembly (8), elbow (10), ball valve (9), and adapter (4) in fog oil tank supply port.

d. Install cage mount assembly and smoke generator (p2-16).

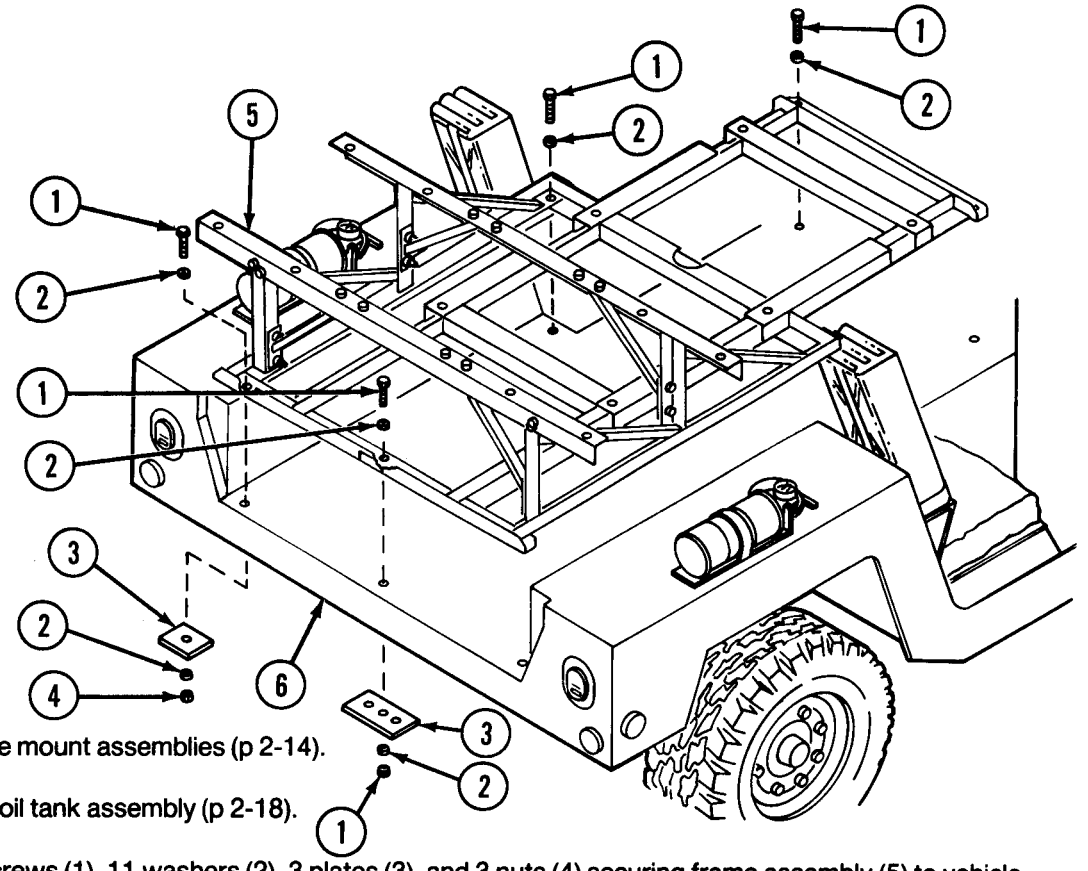
e. Reconnect fog oil inlet hose (2) to fog oil tank sup ply adapter (4). Reconnect fog oil exhaust hose (3) to fog oil tank return adapter (5). Tighten fog oil hose damps (1).



2-9. M288 MOUNTING KIT (CONT).

c. Frame Assembly.

REMOVAL



a. Remove cage mount assemblies (p 2-14).

b. Remove fog oil tank assembly (p 2-18).

c. Remove 8 screws (1), 11 washers (2), 3 plates (3), and 3 nuts (4) securing frame assembly (5) to vehicle cargo bed (6). Remove frame assembly.

INSTALLATION

a. Install frame assembly (p 2-2).

b. Install fog oil tank assembly on frame assembly (p 2-19).

c. Install cage mount assembly (p 2-16).

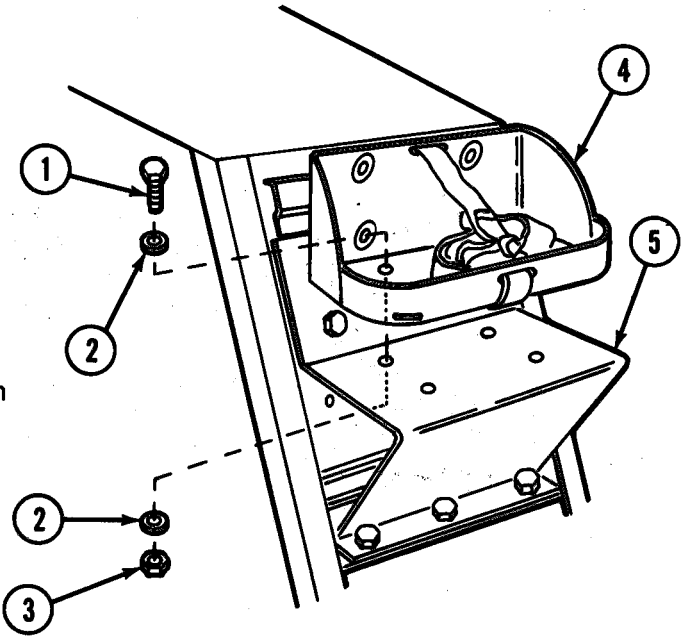
d. Fuel Can Bracket Assembly.

REMOVAL/INSTALLATION

NOTE
Procedure is the same for right and left fuel can bracket assemblies.

a. Remove four screws (1), eight washers (2) and four nuts (3) securing fuel can bracket assembly (4) to fuel can base plate (5).

b. Install fuel can bracket assembly (4) on fuel can base plate (5) with four screws (1), eight washers (2), and four nuts (3).



e. *Fuel Can Base Plate.*

REMOVAL/INSTALLATION

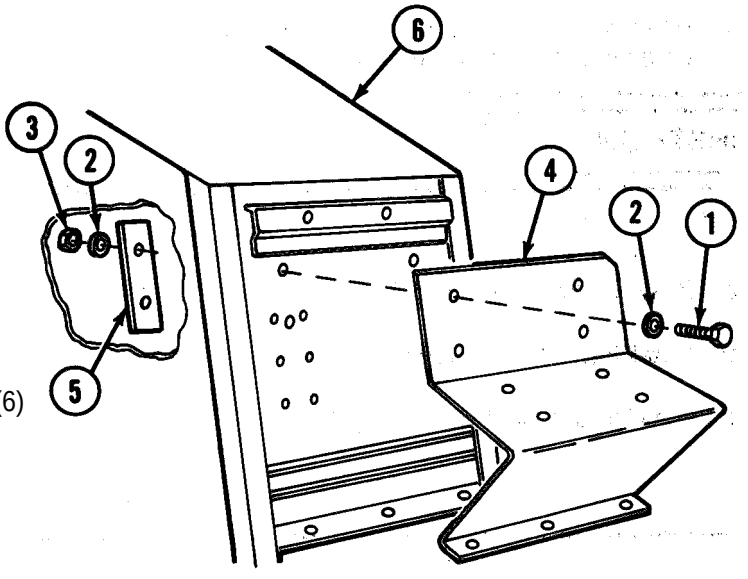
NOTE
Procedure is the same for right and left fuel can base plates. Right side shown, left side is opposite.

a. Remove fuel can bracket assembly (p 2-21).

b. Remove 7 screws (1), 14 washers (2), and 7 nuts (3) securing fuel can base plate (4) and base plate doubler (5) to wheelhouse (6).

c. Install fuel can base plate (4) on wheelhouse (6) with base plate doubler (5), 7 screws (1), 14 washer (2), and 7 nuts (3).

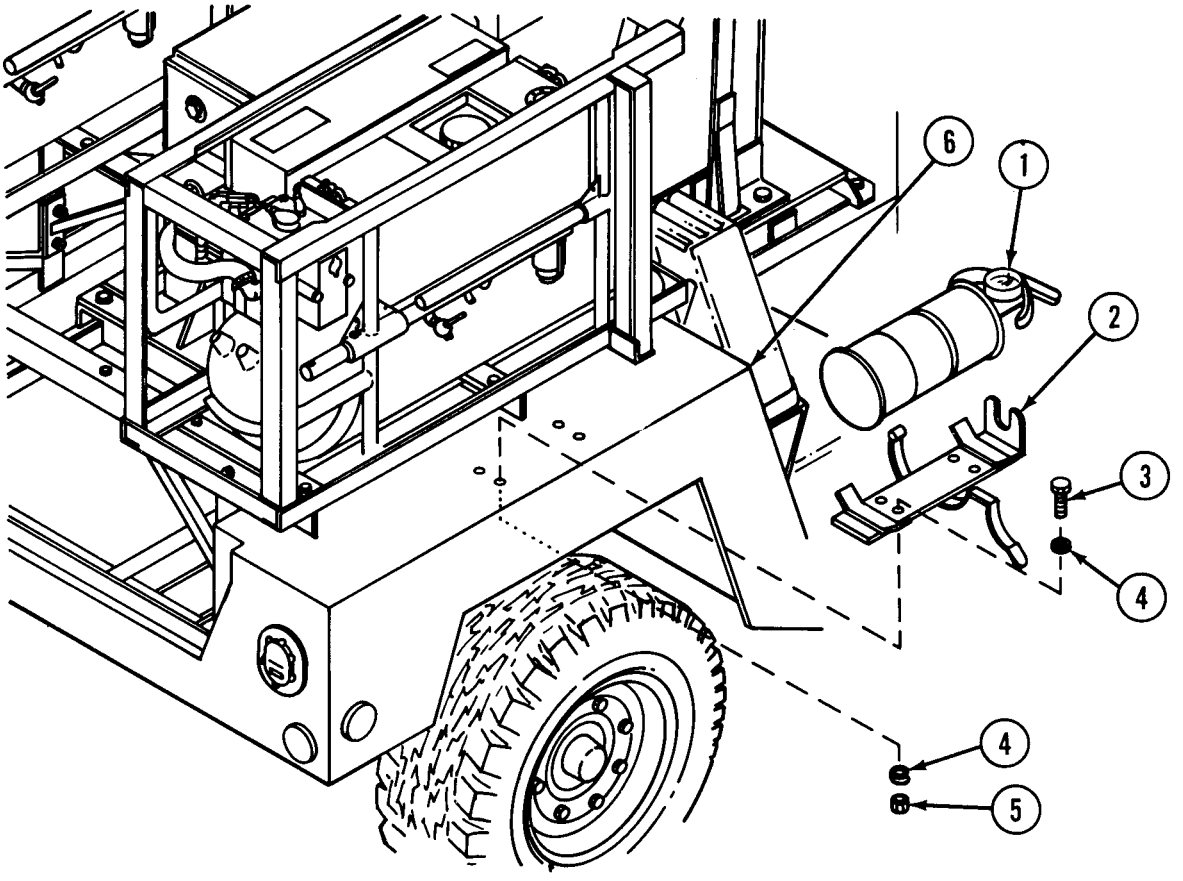
d. Install fuel can bracket assembly (p 2-21).



2-9. M288 MOUNTING KIT (CONT).

f. *Fire Extinguisher.*

REMOVAL/INSTALLATION



NOTE
Procedure is the same for right and left fire extinguishers.

a. Remove fire extinguisher (1) from bracket (2).

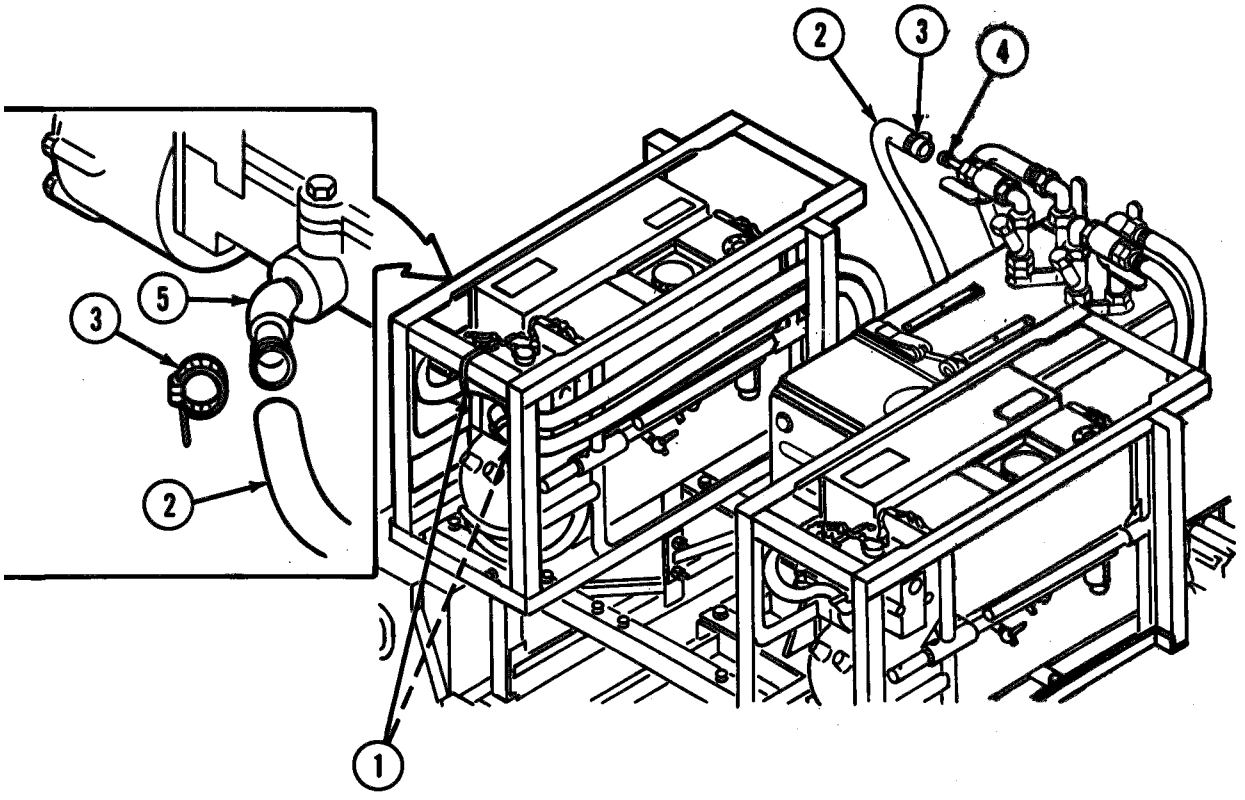
b. Remove four screws (3), eight washers (4), and four nuts (5) securing bracket on wheelhouse (6).

c. Install bracket (2) on wheelhouse (6) with four screws (3), eight washers (4), and four nuts (5).

d. Install fire extinguisher (1) in bracket.

g. Fog Oil Hoses.

REMOVAL/INSTALLATION



WARNING

Fog oil is very slippery. Cleanup all spills immediately to prevent injury to personnel. Do not drain fog oil near open flames or while smoking.

NOTE

Removal/installation of one of the fog oil inlet hoses is shown. Remove/install the other fog oil inlet hose and the fog oil exhaust hoses the same way. Hoses may contain fog oil. Have a suitable container available.

a. Remove tie down straps (1) securing fog oil inlet hose (2) to top cage mount and to fog oil exhaust hose.

b. Loosen hose clamps (3) and pull fog oil inlet hose (2) from fog oil tank supply adapter (4). Drain hose into a container. Pull other end of hose from elbow (5) on fog oil pump.

c. Remove hose clamps (3) from ends of hose.

d. Fabricate replacement fog oil inlet hose or exhaust hose (fig E-1 or E-2, app E).

e. Slide hose clamps (3) on ends of hose (2). Install hose on adapter (4) and elbow (5). Tighten hose damps.

f. Secure fog oil inlet hose (2) to top cage mount and to fog oil exhaust hose with tie down straps (1).

2-9. M288 MOUNTING KIT (CONT).

h. *Strainer Assembly/Ball Valve.*

REMOVAL/INSTALLATION

WARNING

Fog oil is very slippery. Cleanup all spills immediately to prevent injury to personnel. Do not drain fog oil near open flames or while smoking.

NOTE

Adapters, valves, elbows, and strainer are removed and installed on both sides of fog oil tank assembly the same way. Hoses may contain fog oil. Have a suitable container available.

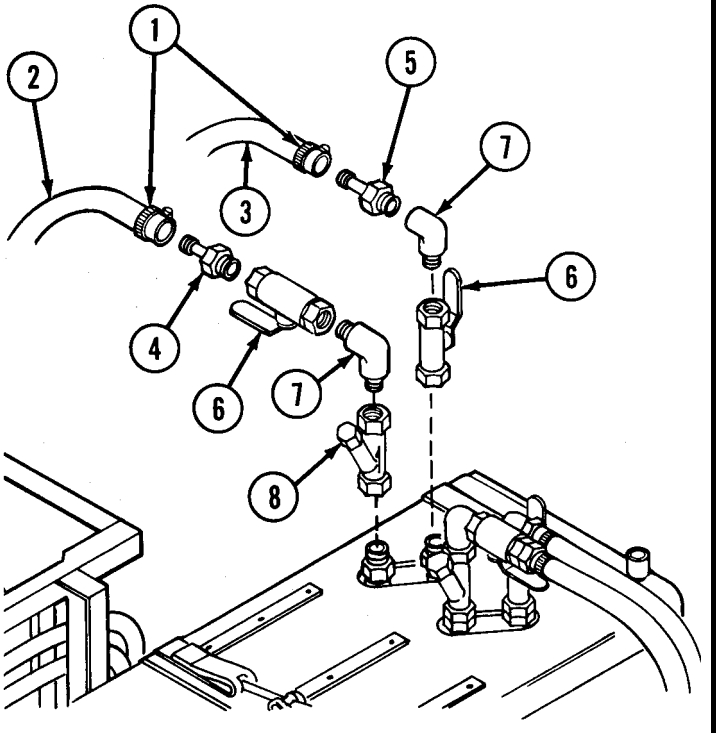
a. Loosen fog oil hose clamps (1) and pull hoses (2 and 3) from adapters (4 and 5) on fog oil tank. Drain hoses into a container.

b. Remove adapters (4 and 5), valves (6), elbows (7) and strainer assembly (8) as required for replacement.

c. Install strainer assembly (8), elbow (7), valve (6), and adapter (4) in fog oil tank supply port.

d. Install valve (6), elbow (7), and adapter (5) in fog oil tank return port.

e. Reconnect fog oil inlet hose(2) to fog oil tank supply adapter (4). Reconnect fog oil exhaust hose (3) to fog oil tank return adapter (5). Tighten fog oil hose clamps (1).



2-10. CAGE MOUNT ASSEMBLY.

This task covers replacement of
a. Top Cage Mount
b. Bottom Cage Mount

INITIAL SETUP

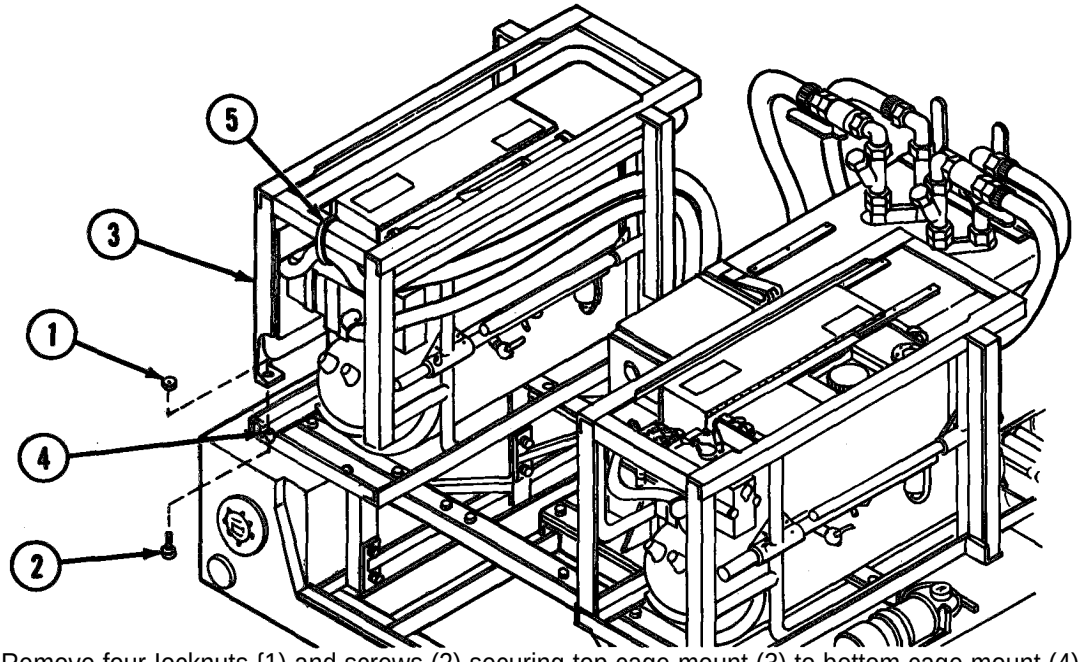
Tools
General Mechanics Tool Kit SC 5180-90-CL-N26
Automotive Shop Equipment SC 491-95-CL-A74:
Torque wrench 0-170 foot-pounds

Materials/Parts
Tie down straps (item 11, app D)

Personnel Required
One mechanic
One assistant

a. Top Cage Mount.

REMOVAL/INSTALLATION



a. Remove four locknuts {1) and screws (2) securing top cage mount (3) to bottom cage mount (4). Remove tiedown strap (5) securing fog oil inlet hose to top cage mount (3).

b. Remove top cage mount.

c. Position top cage mount (3) over smoke generator and install four screws (2). Tighten screws evenly to maintain a level generator. Working in a crisscross pattern, tighten each screw a few turns at a time until a 5 foot-pound torque is obtained. Hold screws with wrench and install four locknuts (1). Secure fog oil inlet hose to top cage mount (3) with tie down strap (5).

b. *Bottom Cage Mount.*

REMOVAL/INSTALLATION

Refer to removal and installation procedures for cage mount assembly (p 2-14).

2-11. FOG OIL TANK ASSEMBLY.

This task covers replacement of:
a. Fog Oil Tank and Insulating Pads (p 2-26)
b. Retaining Straps and Anchor Straps (p 2-30)

INITIAL SETUP

Facilities and Equipment
Drain hose (fig E-3, app E)

Tools
General Mechanic's Tool Kit
SC 5180-90-CL-N26

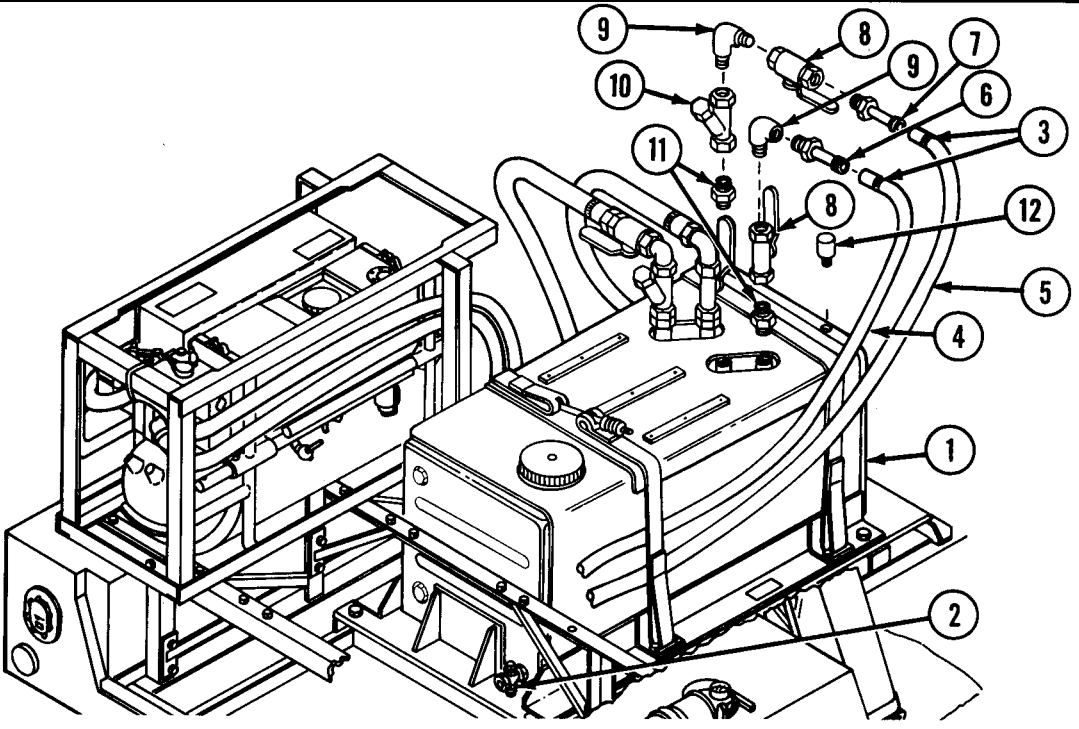
Materials
Trichloroethane technical (item 12, app D)
Adhesive (item 1, app D)
Rags (item 9, app D)

Personnel Required
One mechanic
One assistant

a. *Fog Oil Tank and Insulating Pads.*

REMOVAL

1



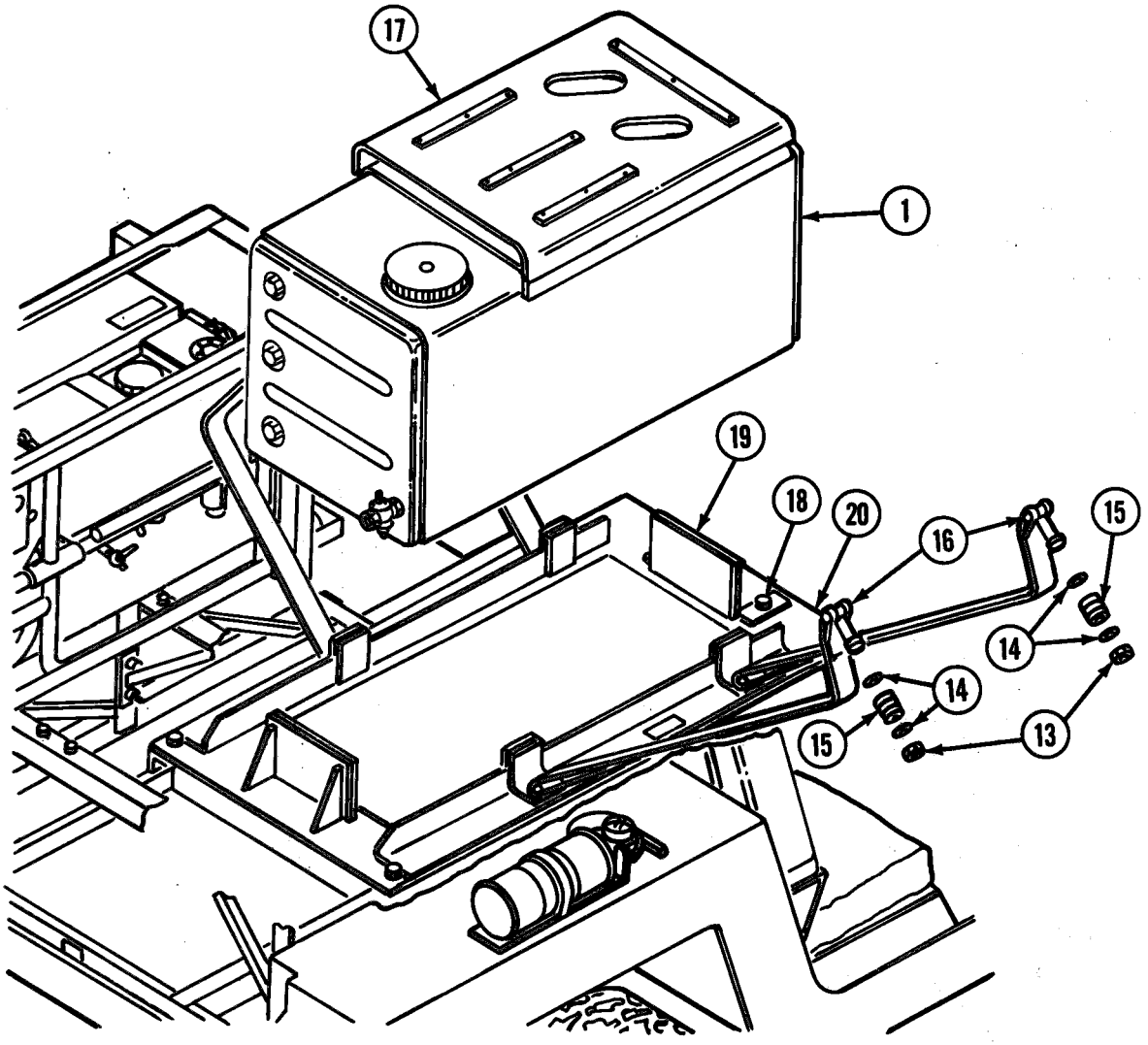
a. Using a suitable container and drain hose (fig E-3), drain fog oil tank (1) through plug valve (2). Close plug valve (2) and disconnect drain hose.

b. Loosen hose clamps (3) and pull fog oil hoses (4 and 5) from adapters (6 and 7) on both sides of fog oil tank. Drain fog oil hoses into a container.

c. Remove adapters (6 and 7), valves (8), elbows (9), strainer assemblies (10), and reducers (11) from both sides of fog oil tank.

d. Remove check valve (12).

2



a. Loosen and remove nuts (13), washers (14) and springs (15) on retaining straps (16).

b. Remove top restraint (17).

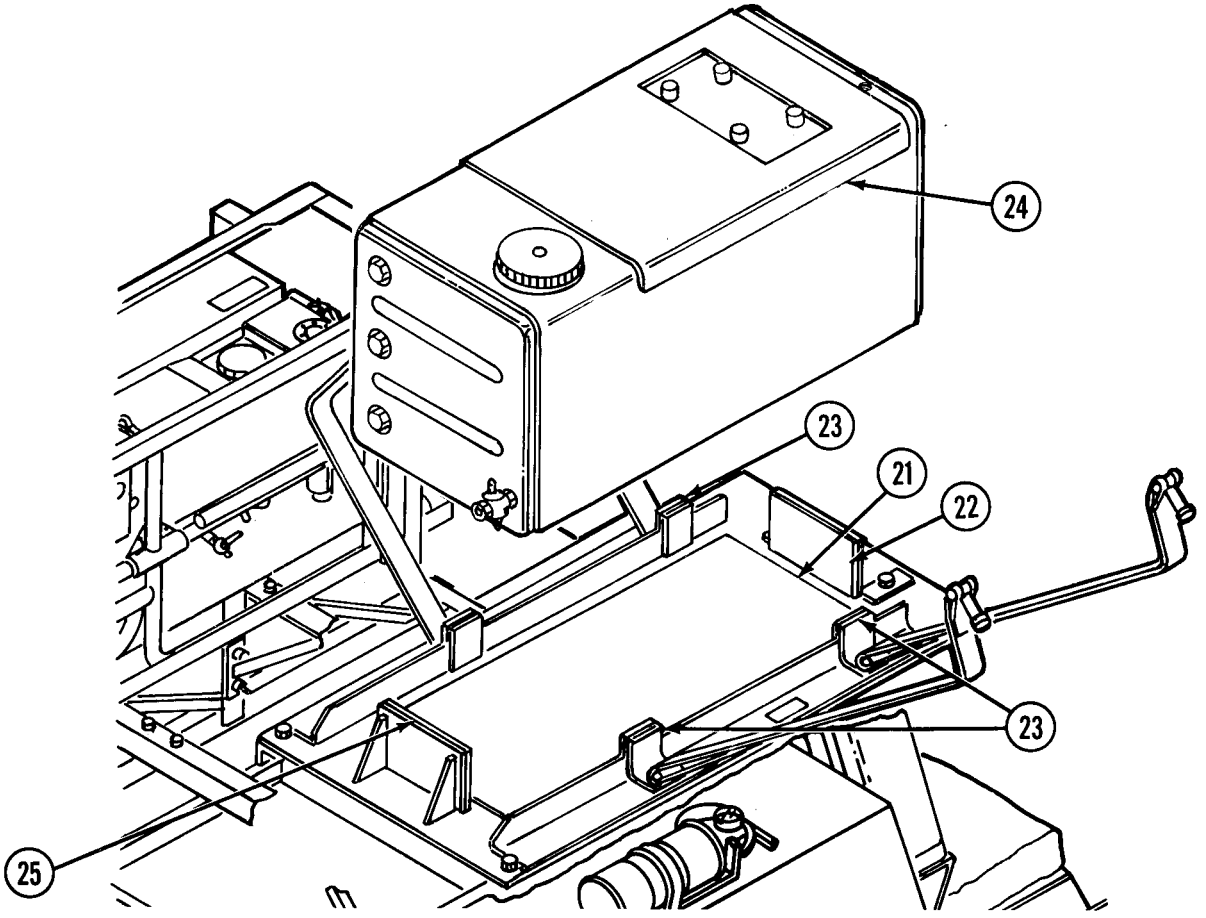
c. Remove two screws(18) securing forward restraint (19), and remove restraint from fog oil tank (1).

d. Remove fog oil tank (1) from base plate (20).

2-11. FOG OIL TANK ASSEMBLY (CONT).

a. *Fog Oil Tank and Insulating Pads (Cont).*

INSPECTION/REPAIR



a. Inspect base plate pad (21), forward restraint pad (22), side restraint pads (23), top restraint pad (24) and rear restraint pad (25).

b. Replace pads if torn or otherwise damaged. (fig E-4 thru E-7, app E).

c. Lift edge of pad with sharp tool.

d. Remove pad completely from restraint mounting surface.

WARNING

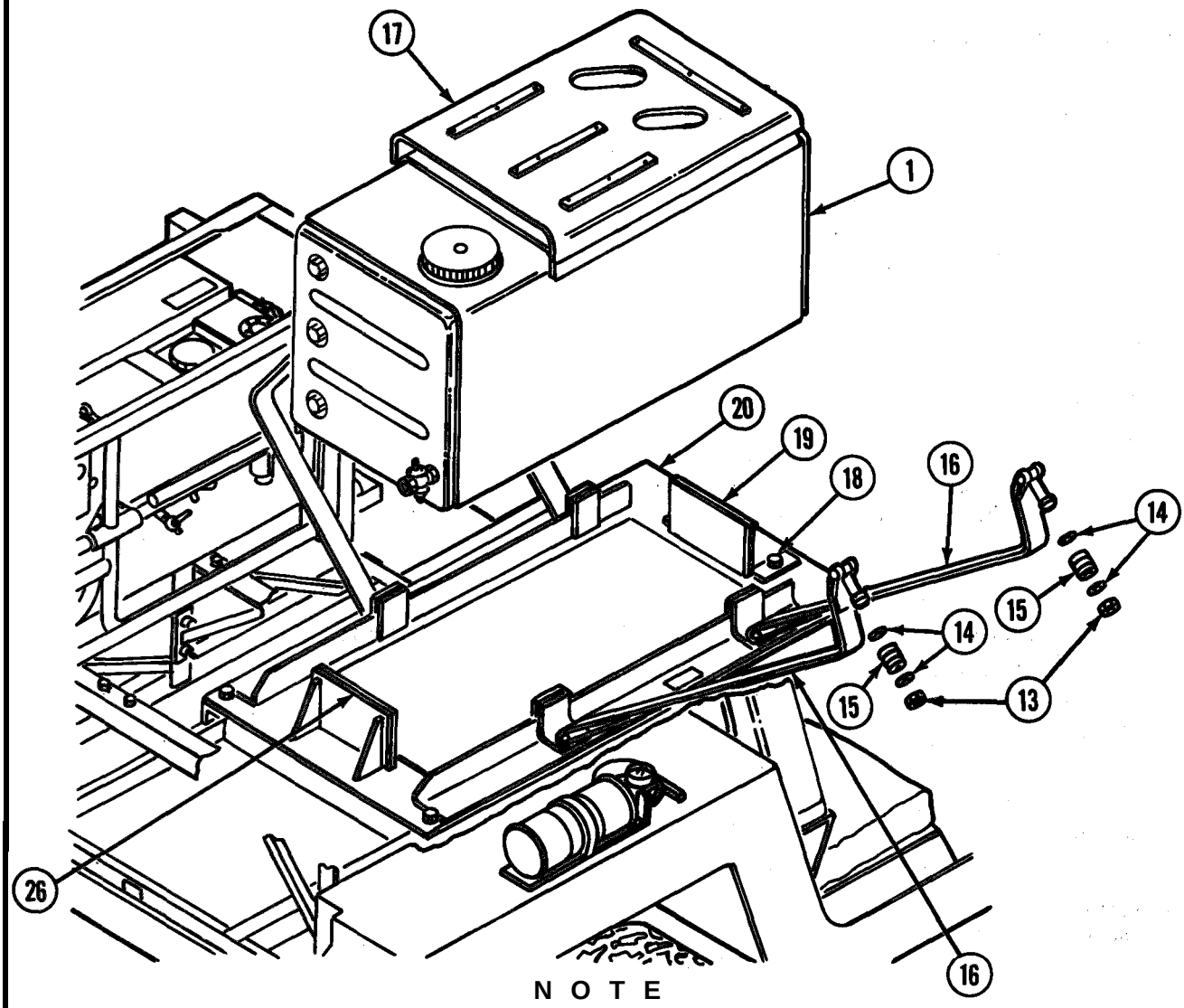
Prolonged breathing of trichloroethane vapors may cause injury to the lungs, heart, liver, and/or kidneys. Use only in a well ventilated area. Do not use on hot surfaces. Wear neoprene gloves.

e. Clean restraint mounting surface with trichloroethane and rags.

f. Apply thin coat of adhesive to pad and mounting surface. Allow to dry for 10 to 20 minutes, then press surfaces together.

INSTALLATION

1



N O T E

For installation it maybe necessary to remove one of the side restraints.

a. Position fog oil tank (1) in base plate (20) with tank against rear restraint (26).

b. Install forward restraint (19) against fog oil tank (1) and secure with two screws (18).

c. Install top restraint (17).

d. Close retaining straps (16) and secure with four washers (14), springs (15), and nuts (13).

2-11. FOG OIL TANK ASSEMBLY (CONT).

a. *Fog Oil Tank and Insulating Pads (Cont).*

INSTALLATION (CONT)

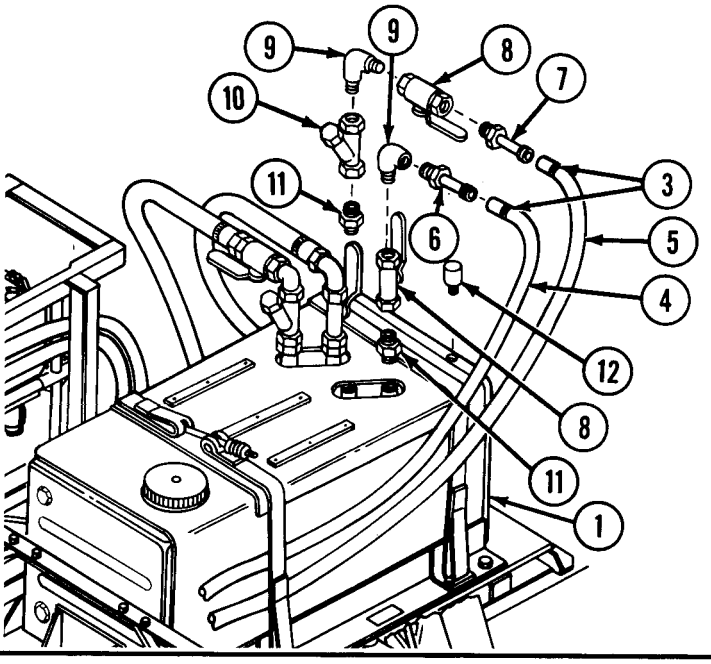
NOTE
Reducers, valves, elbows, adapters, and strainer assemblies are installed the same way on both sides of the fog oil tank except the elbows are at different angles.

a. Install check valve (12).

b. Install reducers (11), strainer assembly (10), valves (8), elbows (9), and adapters (6 and 7) into fog oil tank (1).

c. Install fog oil exhaust hose (5) on adapter (7) and fog oil inlet hose (4) on adapter (6).

d. Tighten hose clamps (3).



b. *Retaining Straps and Anchor Straps.*

REMOVAL/INSTALLATION

NOTE
Removal and installation procedures are the same for all four retaining straps.

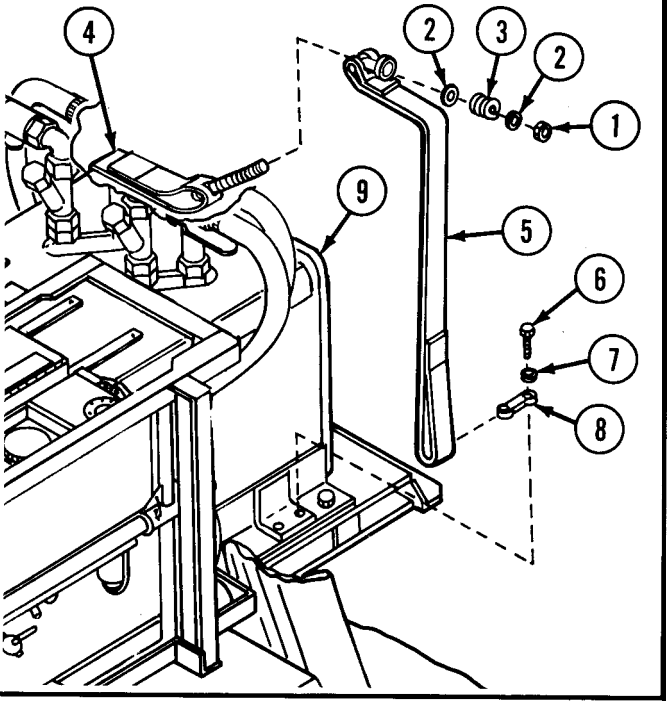
a. Loosen and remove nut (1), washers (2) and spring (3) securing retaining straps (4 and 5).

b. Remove two screws (6) and key washers (7) securing anchor strap (8) and remove retaining strap (5) from fog oil tank assembly (9).

c. Position anchor strap (8) in retaining strap (5).

d. Position retaining strap (5) with anchor strap (8) on fog oil tank assembly (9) and secure with two screws (6) and key washers (7). Bend up tab on key washers.

e. Install two washers (2), one spring (3), and nut (1). Tighten nut (1) until retaining strap is secure.



2-12. FOG OIL TANK.

This task covers replacement of:
a. Strainer Element (p 2-31)
b. Sight Indicators (p 2-32)
c. Plug Valve (p 2-32)
d. Dust and Moisture Boot (p 2-33)

INITIAL SETUP

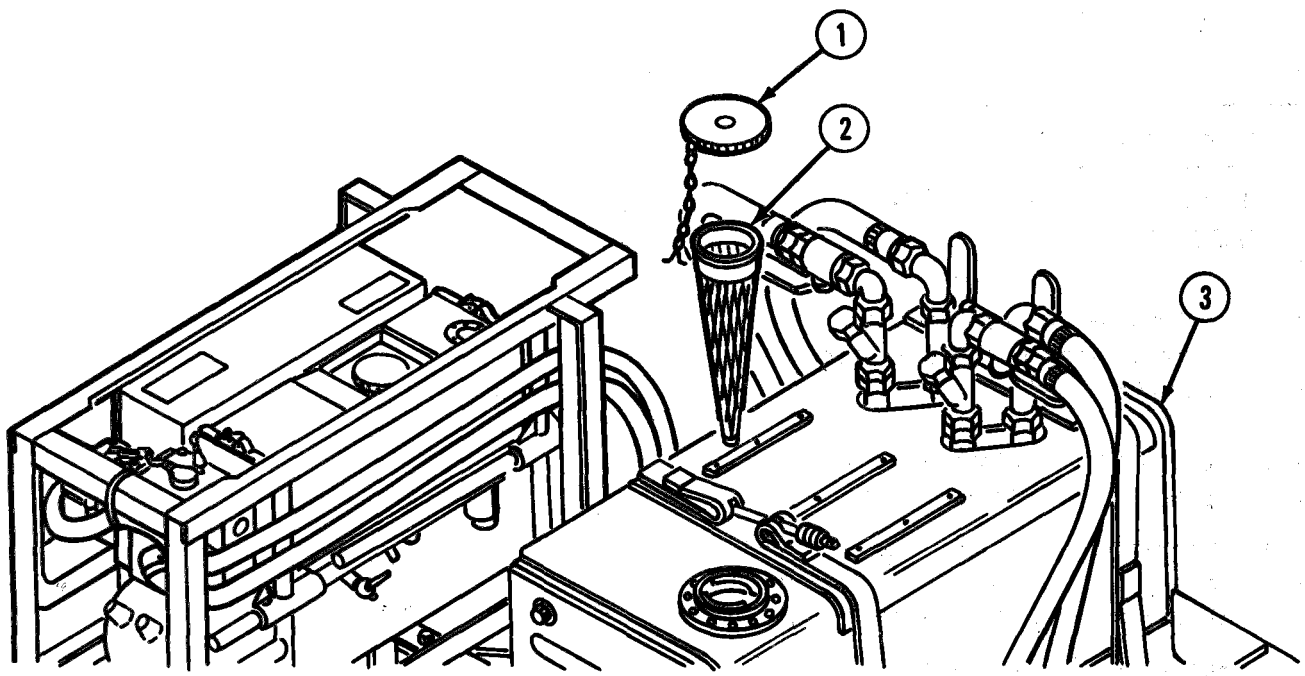
Facilities and Equipment
Drain hose (fig E-3, app E)

Tools
General Mechanic's Tool Kit
SC 5180-90-CL-N26
Automotive Shop Equipment
SC 4910-95-CL-A74:
Adjustable wrench 0-3 5/8 in.

Materials
Cleaner (item 3, app D)
Rags (item 9, app D)
Safety wire (item 13, app D)
Sealing compound (item 10, app D)

a.Strainer Elements

REMOVAL/INSTALLATION



a. Unscrew filler opening cap (1). Remove strainer element (2) from tank (3).

b. Clean or replace strainer (2) as required.

c. Install strainer (2) in tank (3). Screw filler opening cap (1) onto tank (3).

2-12. FOG OIL TANK (CONT).

b. *Sight Indicator.*

REMOVAL/INSTALLATION

WARNING

Fog oil is very slippery. Cleanup all spills immediately to prevent injury to personnel. Do not drain fog oil near open flames or while smoking.

NOTE

Fog oil level in tank should be below sight indicator to be replaced.

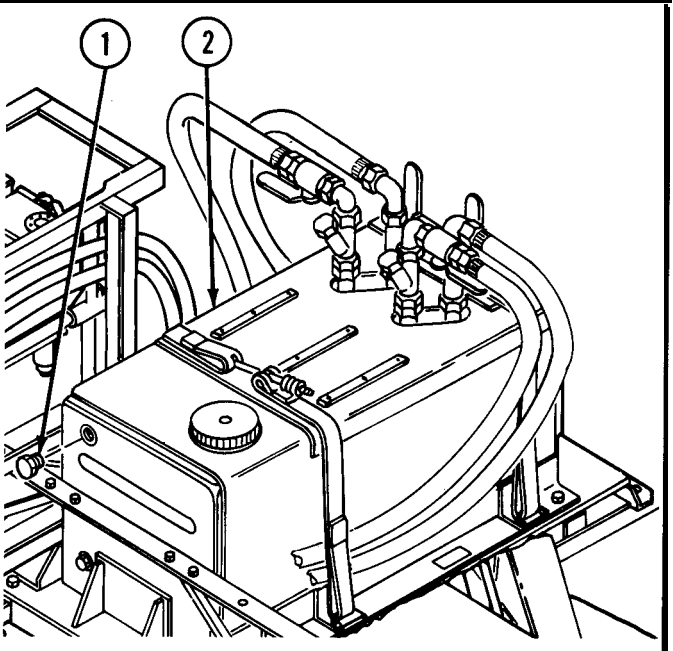
Drain fog oil into suitable container. If necessary use drain hose (fig E-3, app E).

a. Remove sight indicator (1) from fog oil tank (2). Use cleaner to free up indicator if necessary.

b. Clean threads in fog oil tank with a rag.

c. Coat threads of sight indicator (1) with sealing compound.

d. Install sight indicator (1) in fog oil tank (2) and secure.



c. Plug Valve.

REMOVAL/INSTALLATION

WARNING

Fog oil is very slippery. Clean up all spills immediately to prevent injury to personnel. Do not drain fog oil near open flames or while smoking.

NOTE

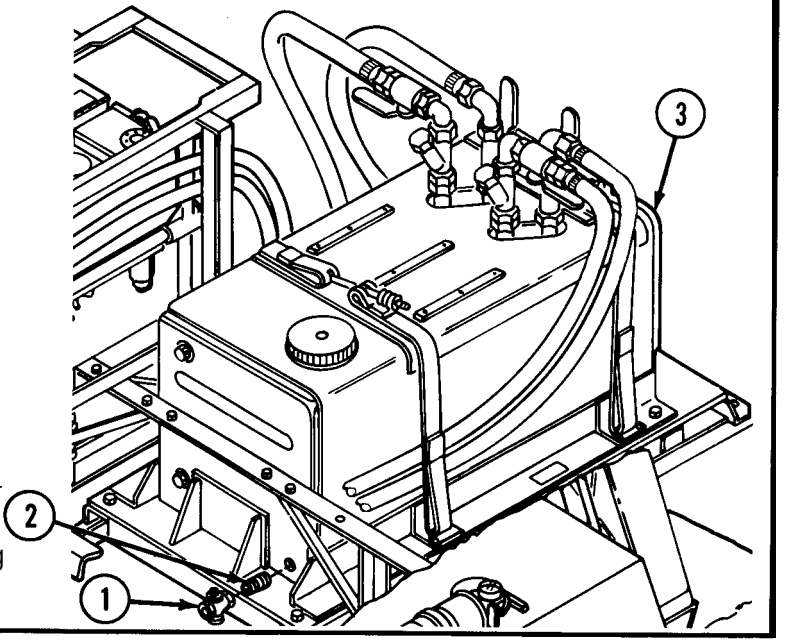
Drain fog oil from fog oil tank into suitable container using drain hose (fig E-3, app E).

a. Remove plug valve (1) from nipple (2) on fog oil tank (3) Remove nipple (2).

b. Clean thread in fog oil tank with a rag.

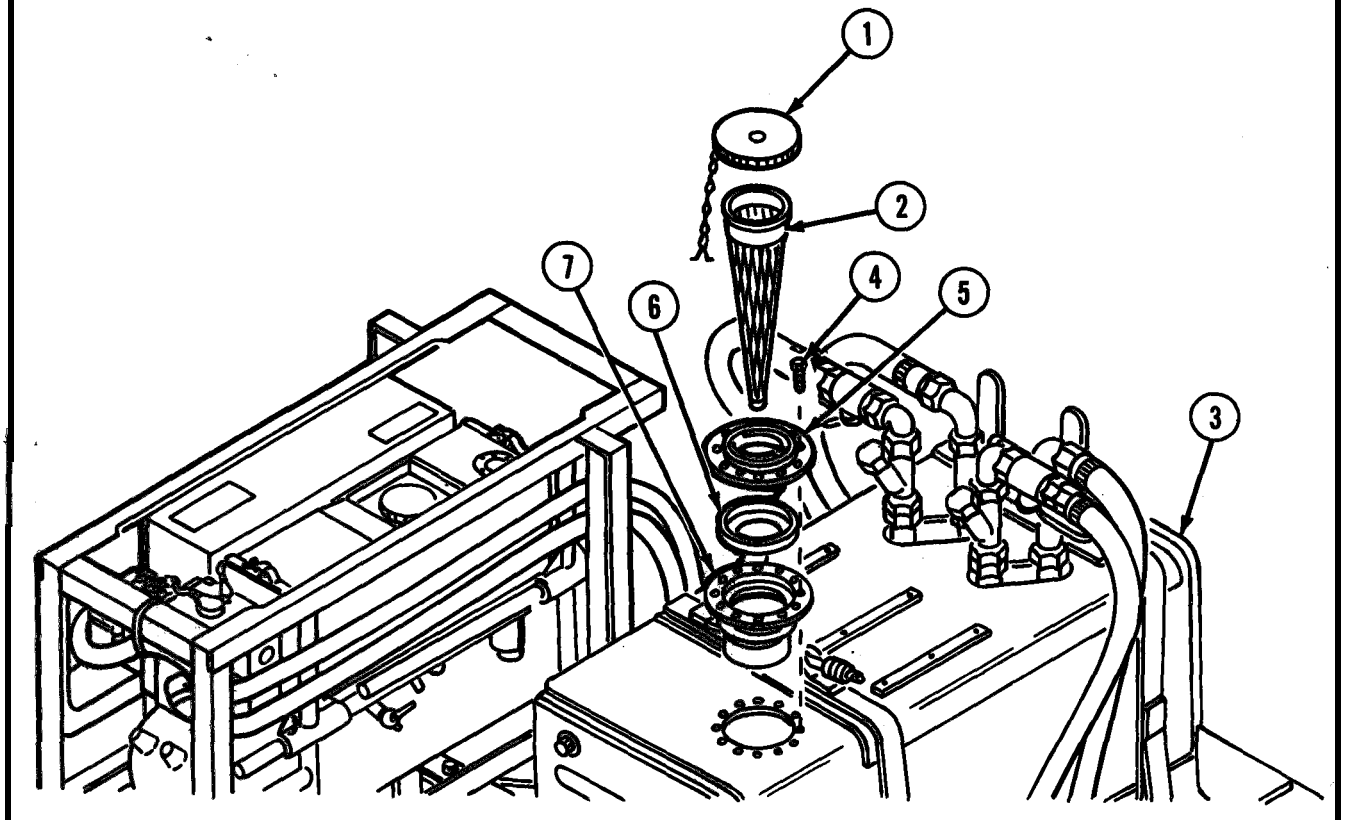
c. Coat threads of nipple (2) with sealing compound.

d. Install nipple (2) in fog oil tank (3). Install plug valve (1) on nipple (2).



d. Dust and Moisture Boot.

REMOVAL/INSTALLATION



a. Unscrew filler opening cap (1) and remove strainer screen (2) from fog oil tank (3).

b. Remove safety wire from 12 screws (4) securing filler opening neck (5) and remove neck.

c. Remove strainer retainer (6) and replace if corroded or otherwise damaged. Remove dust and moisture boot (7), and replace if ripped or otherwise damaged.

d. Install dust and moisture boot (7) in fog oil tank (3). Install strainer retainer (6) in dust and moisture boot (7).

e. Position filler opening neck (5) on fog oil tank (3) and source with 12 screws (4) and safety wire.

f. Install strainer screen (2) in fog oil tank (3). Screw filler opening cap (1) onto fog oil tank (3).

2-13. FRAME ASSEMBLY.

This task covers replacement of:
a. Front Support Legs (p 2-34)
b. Rear Support Legs (p 2-35)
c. Generator Support Rails (p 2-36)
d. ID Plate (p 2-36)

INITIAL SETUP

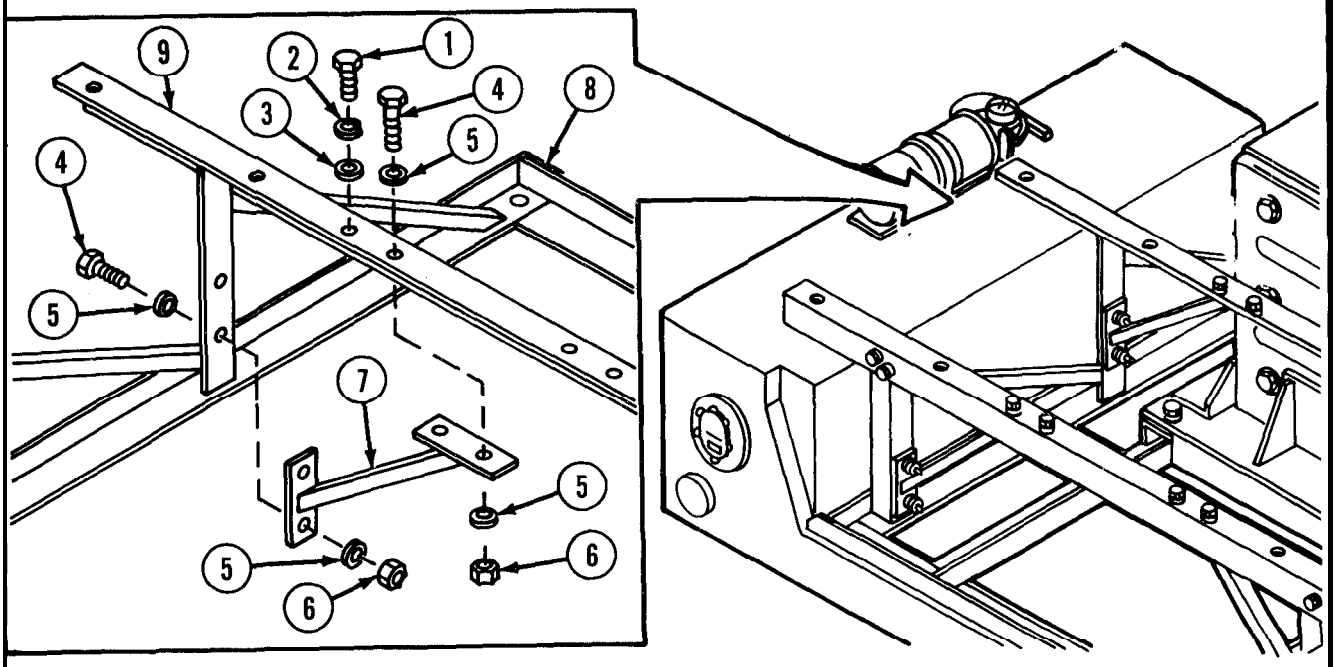
Tools
General Mechanic's Tool Kit
SC 5180-90-CL-N26

Materials
Dry cleaning solvent (item 5, app D)

Equipment Condition
Smoke generators and cage mount assemblies removed from frame assembly (p 2-14)

a. *Front Support Legs.*

REMOVAL/INSTALLATION



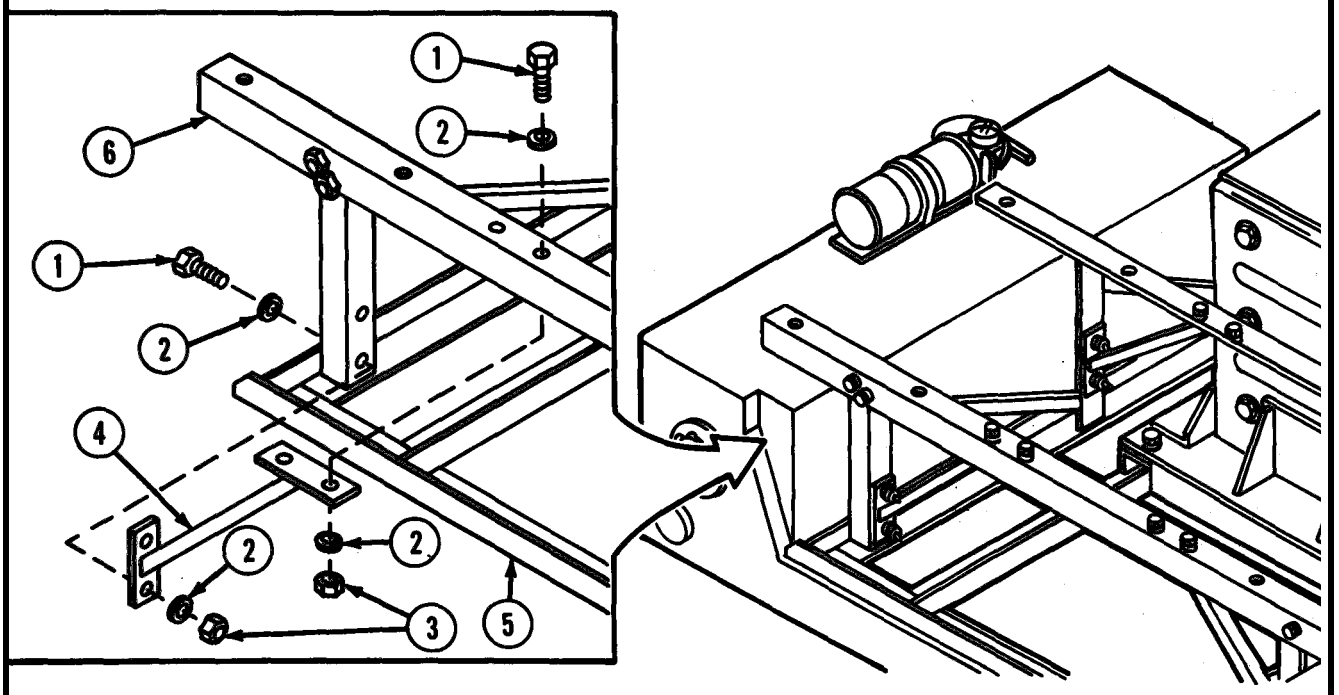
NOTE
Procedure is the same for right and left support legs.

a. Remove screw (1), lockwasher (2), washer (3), and three screws (4), six washers (5), and three nuts (6) securing front support leg (7) to frame (8) and generator support rail (9).

b. Install front support leg (7) between frame (8) and generator support rail (9) with screw (1), lockwasher (2), washer (3), and three screws (4), six washers (5), and three nuts (6).

b. Rear Support Legs

REMOVAL/iNSTALLATION



NOTE
Procedure is the same for right and left support legs.

a. Remove four screws (1), eight washers (2), and four nuts (3) securing rear support leg (4) to frame (5) and generator support rail (6).

b. Install rear support leg (4) between frame (5) and generator support rail (6) with four screws (1), eight washers (2), and four nuts (3).

2-13. FRAME ASSEMBLY (CONT).

c. *Generator Support Rails.*

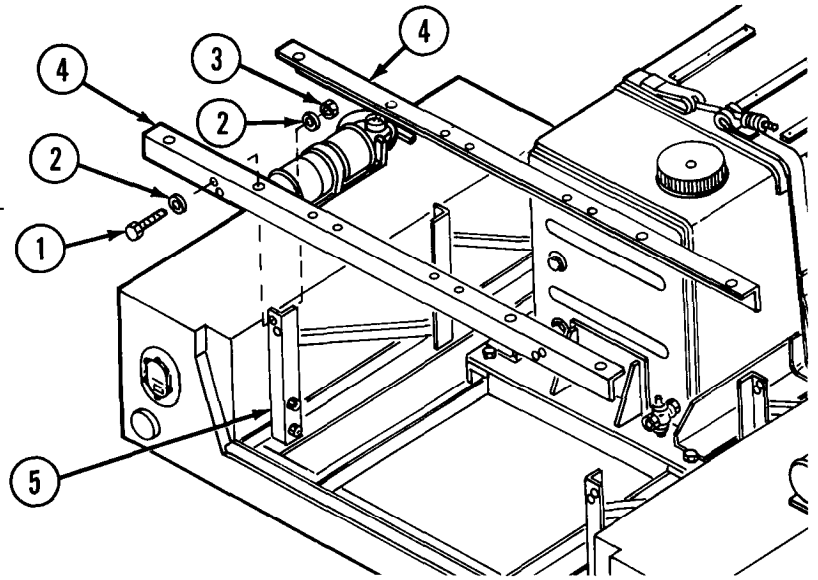
REMOVAL/INSTALLATION

a. Remove front and rear support legs (p 2-34).

b. Remove 8 screws (1), 16 washers (2), and 8 nuts (3) securing generator support rails (4) to frame assembly (5).

c. Install generator support rails (4) on frame assembly (5) with 8 screws (1), 16 washers (2), and 8 nuts (3).

d. Install front and rear support legs (p 2-34).



d. *ID Plate.*

REMOVAL/INSTALLATION

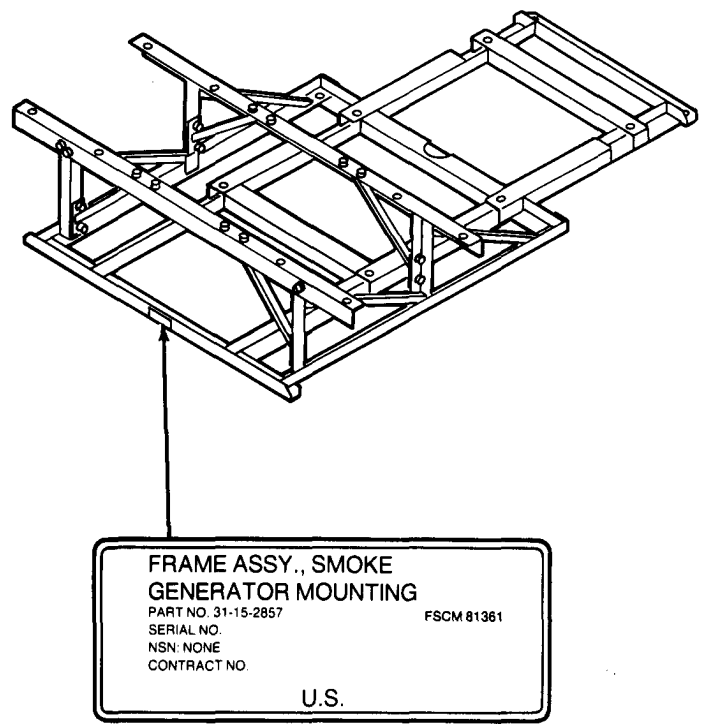
a. Lift edge of plate with a sharp tool and pull plate completely off mounting surface.

WARNING

Dry cleaning solvent is flammable and toxic. Keep it away from heat or open flames. Use in well ventilated area. Avoid breathing vapors.

b. Thoroughly clean mounting surface with dry cleaning solvent. Mounting surface must be free of all contamination such as oil, grease, dirt, or any foreign matter. Touch up paint as necessary (p 2-13).

c. Peel back paper from adhesive backing on plate. Mount plate and apply pressure to plate surface.



2-14. STRAINER ASSEMBLY.

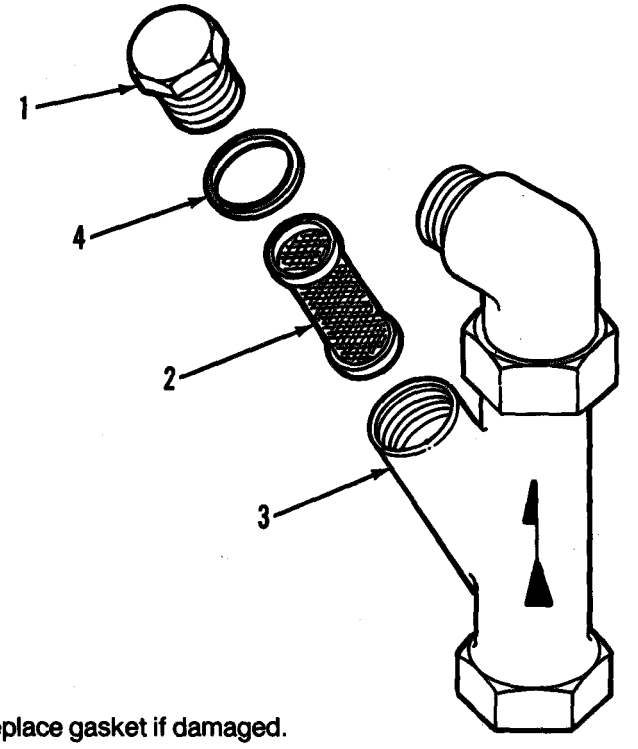
This task covers replacement of strainer.

INITIAL SETUP

Tools
General Mechanic's Tool Kit
SC 5180-90-CL-N26

General Safety Instructions
Fog oil is very slippery. Cleanup all spills immediately to prevent injury to personnel.

REMOVAL/INSTALLATION



a. Remove plug (1) from strainer body (3).

b. Remove strainer (2) from strainer body (3).

c. Inspect gasket (4) on plug for cuts or tears. **Replace gasket if damaged.**

d. Install strainer (2) in strainer body (3).

e. Install plug (1) on strainer body (3).

Section V. PREPARATION FOR STORAGE OR SHIPMENT

2-15. SCOPE. This section provides guidance and instructions for administrative storage of equipment. No special instructions for preservation or shipping are required.

2-16. PREPARATION FOR STORAGE.

a. Perform next scheduled preventive maintenance checks and services (p 2-12). Correct all shortcomings and deficiencies. Check that all modification work orders MWO'S) have been applied.

b. Drain fog oil from fog oil tank.

c. Remove fire extinguishers and store in a secure area to prevent theft.

d. Remove 5-gallon gas cans and store in area approved by local fire regulations.

2-17. STORAGE.

a. Perform monthly walk around visual inspection of mounting kit. Inspect for corrosion or other deterioration and missing or damaged parts.

b. Record and report maintenance actions in accordance with DA PAM 738-750.

2-18. REMOVAL FROM STORAGE.

a. Install fire extinguishers and 5-gallon gas cans in mounting brackets.

b. Resume normal maintenance of mounting kit.

APPENDIX A
REFERENCES

A-1. TECHNICAL MANUALS.

TM 3-1040-276-10	Operator's Manual Generator, Smoke, Mechanical: Pulse Jet, M3A4 (1040-01-143-9506)
TM 3-1040-202-12	Operator's and Organizational Maintenance Manual: Generator, Smoke, Mechanical, Pulse Jet, M3A3 (NSN 1040-00-587-3618)
TM 9-2320-280-20	Organizational Maintenance-Truok, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4 X 4, M998 (2320-01-107-7155)
TM 43-0139	Painting Instructions for Field Use

A-2. PAMPHLETS.

DA PAM 310-1	Consolidated Index of Army Publications and Blank Forms
DA PAM 738-750	The Army Maintenance Management System (TAMMS)

A-3 SUPPLY CATALOGS.

SC 4910-95-CL-A74	Shop Equipment, Automotive Maintenance and Repair: Organizational Maintenance, Common No. 1, Less Power (NSN 4910-00-754-0654) (W32593) and MAP only (NSN 4910-00-919-0098)
SC 5180-90-CL-N26	Tool Kit, General Mechanic's Automotive (NSN 5180-00-177-7033)

A-4. COMMON TABLES OF ALLOWANCES.

CTA 8-100	Army Medical Equipment Expendable/Durable Supplies
CTA 50-970	Expendable/Durable Items (Except: Medical Class V, Repair Parts and Heraldic Items)

A-5. BLANK FORMS.

DA Form2028	Recommended Changes to Publicationsand Blank Forms
DA Form 2028-2	Recommended Changes to EquipmentTechnical Publications
DA Form 2404	Equipment Inspection and Maintenance Worksheet
SF 364	Report of Discrepancy (ROD)
SF 368	Quality Deficiency Report (Category II)

APPENDIX B
MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. THE ARMY MAINTENANCE SYSTEM MAC.

a. This introduction (section 1) provides a general explanation of all maintenance and repair functions authorized at various maintenance levels under the standard Army Maintenance System concept.

b. The Maintenance Allocation Chart (MAC) in section II designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component will be consistent with the capacities and capabilitiy of the designated maintenance levels, which are shown on the MAC in column (4) as:

UNIT, which includes two subcolumns, C (operator/ crew) and O (unit maintenance)

INTERMEDIATE, which includes two subcolumns, F (Intermediate Direct Support) and H (Intermediate General Support)

DEPOT, which includes a D (Depot) subcolumn

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

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

B-2. MAINTENANCE FUNCTIONS. Maintenance functions will be limited to and defined as follows:

a. *Inspect.* To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel).

b. *Test.* To verify serviceability by measuring the mechanical, pneumatic, hydraulic or electrical chara~teristics of an item and comparing those characteristics with prescribed standards.

c. *Service.* Operations required periodically to keep an item in proper operating condition, i.e., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases.

d. *Adjust.* To maintain or regulate, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.

e. *Aline.* To adjust specified variable elements of an item to bring about optimum or desired performance.

f. *Calibrate.* To determine and cause corrections to be made or to be adjusted on instruments or test, measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may bathe act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

h. *Replace.* To remove an unserviceable item and install a serviceable counterpart in its place. “Replace” is authorized by the MAC and is shown as the 3d position code of the SMR code.

i. *Repair.* The application of maintenance services including fault location/ troubleshooting, removal/ installation, and disassembly/assembly procedures, and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

j. *Overhaul.* That maintenance effort (service/ action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. *Rebuild.* Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with originai manufacturing standards. Rebuild is the highest d\egree of materiei;maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc.) considered in classifying Army equipment/components.

B-3. EXPLANATION OF COLUMNS IN THE MAC, SECTION II.

a. *Column (1), Group Number.* Column (1) lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly.

b. *Column* (2), Component\Assembly. Column (2) contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. *Column* (3), *Maintenance Function.* Column (3) lists the functions to be performed on the item listed in column (2).

d. Column (4), *Maintenance Level.* Column (4) specifies, by the listing of a work time figure in the appropriate subcolumn(s), the Ievel of maintenance authorized to perform the function listed in column (3). This figure represents the active time required to perform that maintenance function at the indicated Ievel of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance level, appropriate work time figures wil be shown for each Ievel. The work time figure represents the average time required to restore an item (assembly, subassembly, component, 1module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), trouble shooting/fault location time, and quality assurance/quaiity control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance level areas follows:

C	Operator or Crew
O	Unit Maintenance
F	Intermediate Direct Support Maintenance
H	intermediate General Support Maintenance
L	Specialized Repair Activity (SA)
D	Depot Maintenance

e. *Column* (5), *Tools and Equipment.* Column (5) specifies, by code, those common tool sets (not individual tools) and special tools, TMDE, and support equipment required to perform the designated function.

f. *Colurnn* (6), *Remarks.* This column shall, when appllcable, contain a etter code, in alphabetic order, which shall be keyed to the remarks contained in section IV.

B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III.

a. *Column (1), Reference Code.* The tool and test equipment reference code correlates with a code used in the MAC, section II, column (5).

b. *Column (2), Maintenance Level.* The lowest category of maintenance authorized to use the tool or test equipment.

c. *Colurnn* (3), *Nornenclature.* Name or identification of the tool or test equipment.

d. *Column (4), National Stock Number.* The Nationa li stock number of the tool or test equipment.

e. *Column (5), Toolnumber.* The manufacturer's part number.

B-5. EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.

a. *Column (1), Reference Code.* The code recorded in column (6), section II.

b. *Column (2), Remarks.* This cokiumn lists information pertinent to the maintenance function being performed as indicated in the MAC, section II.

Section II. MAINTENANCE ALLOCATION CHART FOR M288 SMOKE GENERATOR MOUNTING KIT

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			Unit		Intermediate		Depot		
			C	O	F	H	D		
00	M288 SMOKE GENERATOR MOUNTING KIT	Remove/ Install		3.5				1,2,3	
		Repair		3.2				1,2	
01	CAGE MOUNT ASSEMBLY	Replace		0.4				1	
		Repair		0.3	2.0			1	A
02	LIQUID DISPENSER TANK UNIT	Inspect	0.2						B
		Service	0.2						B
		Replace		0.6				1	
		Repair		0.5				1	
0201	Liquid Dispenser Tank	Replace		0.9				1	
		Repair		0.4	2.0			1	C
03	FRAME ASSEMBLY	Replace		0.9				1	
		Repair		0.3	2.0			1	A
04	STRAINER ASSEMBLY	Inspect	0.1						B
		Service	0.2						B
		Replace		0.3				1	
		Repair		0.2				1	
0401	Strainer Element	Replace		0.1				1	
		Repair		0.1				1	

Section III. TOOLS AND TEST EQUIPMENT REQUIREMENTS

(1) TOOL OR TEST EQUIPMENT REF CODE	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE	(4) NATIONAL/ NATO STOCK NUMBER	(5) TOOL NUMBER
1	0	TOOL KIT, GENERAL KIT, GENERAL MECHANIC'S	5180-00-177-7033	SC 5180-90-CL-N26
2	0	SHOP EQUIPMENT EQUIPMENT AUTOMOTIVE	4910-00-754-0654	SC 491
3	0	5-TON WRECKER WRECKER OR CHAIN HOIST		

Section IV. REMARKS FOR M288 GENERATOR MOUNTING KIT

REFERENCE CODE	REMARKS
A	Work time at intermediate DS is for repair by welding. Refer to TM 9-237 for welding structural steel.
B	For inspection and service, refer to TM 3-1040-276-10 or TM 3-1040-202-12.
C	Work time at intermediate DS is for repair by welding. Refer to TM 9-237 for welding aluminum.

APPENDIX C

UNIT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. NTRODUCTION

C-1. SCOPE. This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of unit maintenance of the Smoke Generator Mounting Kit. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools indited by the Source, Maintenance and Recoverability (SMR) codes.

C-2. GENERAL. In addition to Section I, Introduction, this Repair Parts and Special Tools List is divided into the following sections

a. *Section II Repair Parts List. A* list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are reposed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in asoendng figure and item number sequence. Bulk materials are listed by item name in FIG. BULK at the end of the section. Repair parts kits are listed separately in their own functional group within section II, Repair parts for repairable special tools are also listed in this section. Items listed are shown on the associated illustration(s)/ fiqure(s).

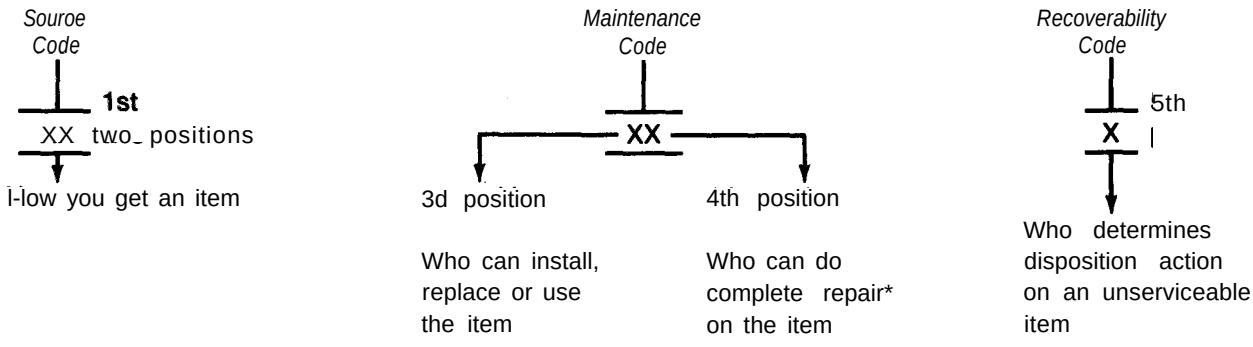
b. Section *///. Special Too/s List.* Not applicable.

c. *Section* IV *Nationsd Stock Number and Part Number Index.* A list, in National item identification number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration fiqure and part number appearance.

C-3. EXPLANATION OF COLUMNS (SECTIONS II AND III).

a. *ITEM NO. (Column* (1)). Indicates the number used to identify items called out in the illustration.

b. *SMR CODE (Column* (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



*Complete Repair Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source code. The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

Code	*Explanation*
PA PB PC** PD PE PF PG	Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3d position of the SMR code. **NOTE: Items coded PC are subject to deterioration.
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3d position of the SMR code. The complete kit must be requisitioned and applied.
MO-(Made at unit/ AVUM Level) MF-(Made at Intermediate DS/ AVIM Level) MH-(Made at Intermediate GS Level) ML-(Made at Specialized Repair Act (SRA) MD-(Made at Depot)	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk material group in the repair parts list in this RPSTL. If the item is authorized to you by the 3d position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.
AO-(Assembled at unit t/AVUM Level) AF-(Assembled at Intermediate DS/ AVIM Level) AH-(Assembled by Intermediate GS Level) AL-(Assembled by SRA) AD-(Assembled by Depot)	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3d position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.

XA - Do not requisition an “XA -coded item. Order its next higher assembly. (Also, refer to the NOTE below.)

XB - If an “XB item is not available from salvage, order it using the FSCM and part number given.

XC - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer’s part number.

XD - Item is not stocked. Order an “XD” -coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, maybe used as a source of supply for items with the above source codes, except for those source coded “XA” or those aircraft support items restricted by requirements of AR 700-42.

(2) Maintenance code. Maintenance codes tell you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of following levels of maintenance:

Code *Application/Explanation*

C - Crew or operator maintenance done within unit or aviation unit maintenance.

O - Unit or aviation unit !evel can remove, replace, and use the item.

F - Intermediate direct support or aviation intermediate level can remove, replace, and use the item.

H - Intermediate general support level can remove, replace, and use the item.

L - Specialized repair activity can remove, replace, and use the item.

D- Depot level can remove, rep!ace and use the item.

(b) The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions).

NOTE

Some limited repair maybe done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

This position will contain one of the following maintenance codes

Code *Application/Explanation*

O - Unit or aviation unit is the lowest level that can do complete repair of the item.

F - Intermediate direct support or aviation intermediate is the lowest level that can do complete repair of the item.

H - Intermediate general support is the lowest level that can do complete repair of the item.

L - Specialized repair activity (designate the specialized repair activity) is the lowest level that can do complete repair of the item.

D - Depot is the lowest level that can do complete repair of the item.

Z - Nonreparable. No repair is authorized.

B - No repair is authorized. No parts or special tools are authorized for the maintenance of a “B” coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

(3) Recoverability code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR code as follows:

Recoverability Codes	*Application/Explanation*
Z	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3d position of SMR code.
O	Reparable item. When uneconomically reparable, condemn and dispose of the item at unit or aviation unit level.
F	Reparable item. When uneconomically reparable, condemn and dispose of the item at the intermediate direct support or aviation intermediate level.
H	Reparable item. When uneconomically reparable, condemn and dispose of the item at the intermediate general support level.
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
L	Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
A	Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. *FSCM (Column (3)).* The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. *PART NUMBER (Column (4)).* Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered.

e. *DESCRIPTION AND USABLE ON CODE (UOC) (Column (5)).* This column includes the following information:

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated.

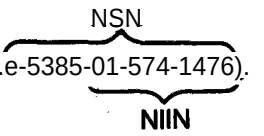
(3) The statement “END OF FIGURE” appears just below the last item description in column 5 for a given figure in both section II and section III.

f. *QTY (Column* (6)). The QTY (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A “V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

C-4. EXPLANATION OF COLUMNS (SECTION IV).

a. *NATIONAL STOCK NUMBER (NSN) INDEX.*

(1) STOCK NUMBER column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN (i.e-5385-01-574-1476).



When using this manual to locate an item, ignore the first 4 digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

(2) FIG. column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in section II and section III.

(3) ITEM column. The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

b. *PART NUMBER INDEX.* Part numbers in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangment of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

(1) FSCM column. The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(2) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

(3) STOCK NUMBER column. This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and FSCM columns to the left.

(4) FIG. column. This column lists the number of the fiqure where the item is identified/located in sections II and III.

(5) ITEM column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

C-5. SPECIAL INFORMATION.

a. *Fabrication Instructions.* Bulk materials required to manufacture items are listed in the bulk material functional group of this RPSTL. Part numbers for bulk materials are also referenced in the description column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in this manual.

b. *Index Numbers.* Items which have the word BULK in the figure column will have an index number shown in the item number oolumn. This index number is a cross-reference between the National Stock Number/Part Number index and the bulk material list in section II.

C-6. HOW TO LOCATE REPAIR PARTS.

a. *When National Stock Number or Part Number is Not Known:*

(1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) Second. Find the figure covering the functional group or subfunctional group to which the item belongs.

(3) Third. Identify the item on the figure and note the item number.

(4) Fourth. Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.

(5) Fifth. Refer to the Part Number Index to find the NSN, if assigned.

b. *When National Stock Number or Part Number is Known:*

(1) First. Using the index of National stock numbers and part numbers, find the pertinent National stock number or part number. The NSN index is in National Item Identification Number (NIIN) sequence (see C-4a(1)). The part numbers in the PART NUMBER INDEX are listed in ascending alphanumeric sequence (see C-4 b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) Second. After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

C-7. ABBREVIATIONS.

NPN	No Part Number

Section II. REPAIR PARTS LIST

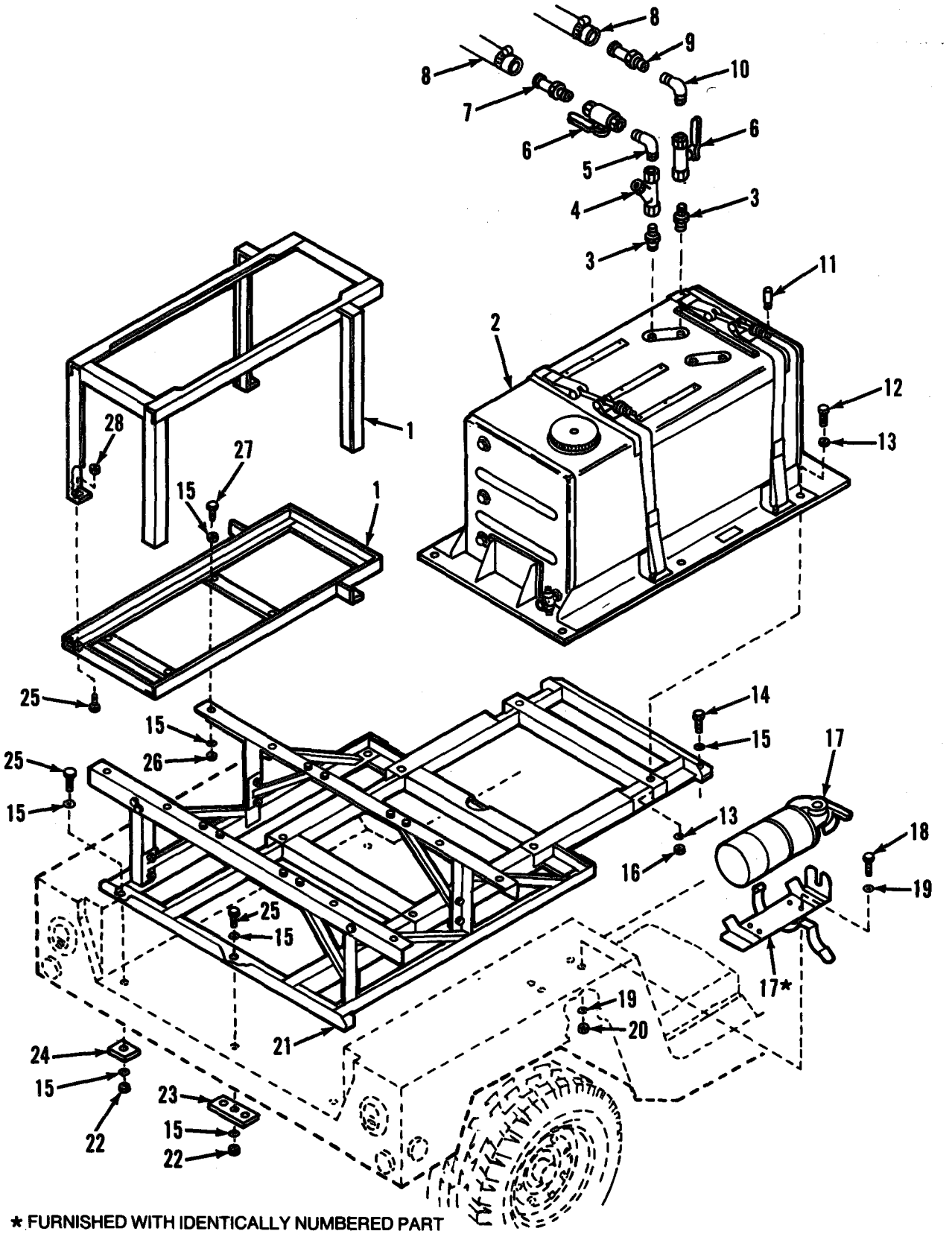


Figure C-1. M288 Smoke Generator Mounting Kit, 31-15-2864 (Sheet 1 of 2)

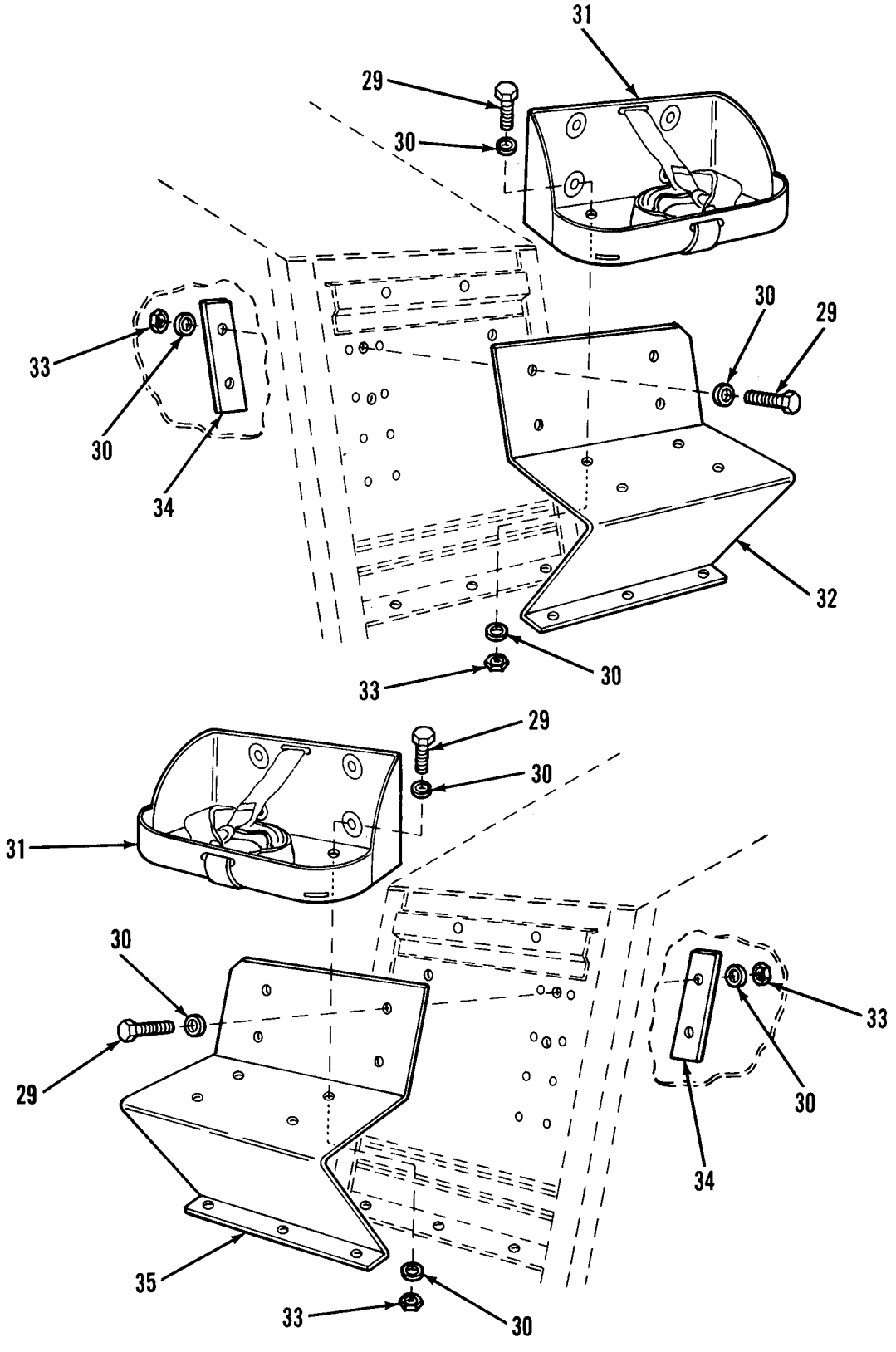


Figure C-1. M288 Smoke Generator Mounting Kit, 31-15-2864 (Sheet 2 of 2)

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 00 M288 SMOKE GENERATOR MOUNTING KIT	
				FIG. C-1 M288 SMOKE GENERATOR MOUNTING KIT 31-15-2864	
1	AOOOO	81361	31-15-2867	MOUNTING GAGE ASSY SEE FIG. C-2 FOR ASSEMBLY BREAKDOWN	2
2	PAOOO	81361	31-15-2902	TANK UNIT, LIQUID DI	1
3	PAOZZ	11649	B-12-HRN-8	NIPPLE, REDUCER	4
4	PAOOO	41947	A15177	STRAINER, SEDIMENT	2
5	PAOZZ	11649	B-8-ME	ELBOW, PIPE	2
6	PAOZZ	48422	1/2"4520-B-20-TT	VALVE, BALL	4
7	PAOZZ	79470	10512B-108	ADAPTER, STRAIGHT, P1	2
8	PAOZZ	88044	AN737TW34-38	CLAMP, HOSE	8
9	PAOZZ	14397	AN840-10	ADAPTER, STRAIGHT, PIPE	2
10	PAOZZ	88044	AN914-4	ELBOW, PIPE	2
11	PAOZZ	11243	2600618-1	VALVE, CHECK	1
12	PAOZZ	96906	MS90727-187	SCREW, CAP, HEXAGON H	6
13	PAOZZ	96906	MS27183-23	WASHER, FLAT	12
14	PAOZZ	96906	MS90728-114	SCREW, CAP, HEXAGON H	5
15	PAOZZ	96906	MS27183-18	WASHER, FLAT	35
16	PAOZZ	96906	MS21045-L12	NUT, SELF-LOCKING, HE	6
17	PAOZZ	01317	CS4210-009AEG	EXTINGUISHER, FIRE, D	2
18	PAOZZ	96906	MS90727-8	SCREW, CAP, HEXAGON H	8
19	PAOZZ	96906	MS27183-9	WASHER, FLAT	16
20	PAOZZ	96906	MS21045-L4	NUT, SELF-LOCKING, HE	8
21	XDOOO	81361	31-15-2857	FRAME ASSEMBLY	1
22	PAOZZ	96906	MS51943-39	NUT, SELF-LOCKING, HE	3
23	PAOZZ	81361	31-15-2883	SPACER, PLATE	1
24	PAOZZ	81361	31-15-2884	SPACER, PLATE	2
25	PAOZZ	96906	MS90728-116	SCREW, CAP, HEXAGON H	11
26	PAOZZ	96906	MS21045-L8	NUT, SELF-LOCKING, HE	8
27	PAOZZ	96906	MS90726-113	SCREW, CAP, HEXAGON H	8
28	PAOZZ	96906	MS51922-33	NUT, SELF-LOCKING, HE	8
29	PAOZZ	96906	MS90726-61	SCREW, CAP, HEXAGON H	22
30	PAOZZ	96906	MS27183-14	WASHER, FLAT	44
31	PAOZZ	07860	C21452	BRACKET ASSEMBLY, LI	2
32	XDOZZ	81361	31-15-2832-10	BRACKET, BASE PLATE	1
33	PAOZZ	96906	MS21045-L6	NUT, SELF-LOCKING, HE	22
34	XDOZZ	81361	31-15-2833	DOUBLER, UPPER, FUEL	4
35	XDOZZ	81361	31-15-2832-20	BRACKET, BASE PLATE	1
				END OF FIGURE	

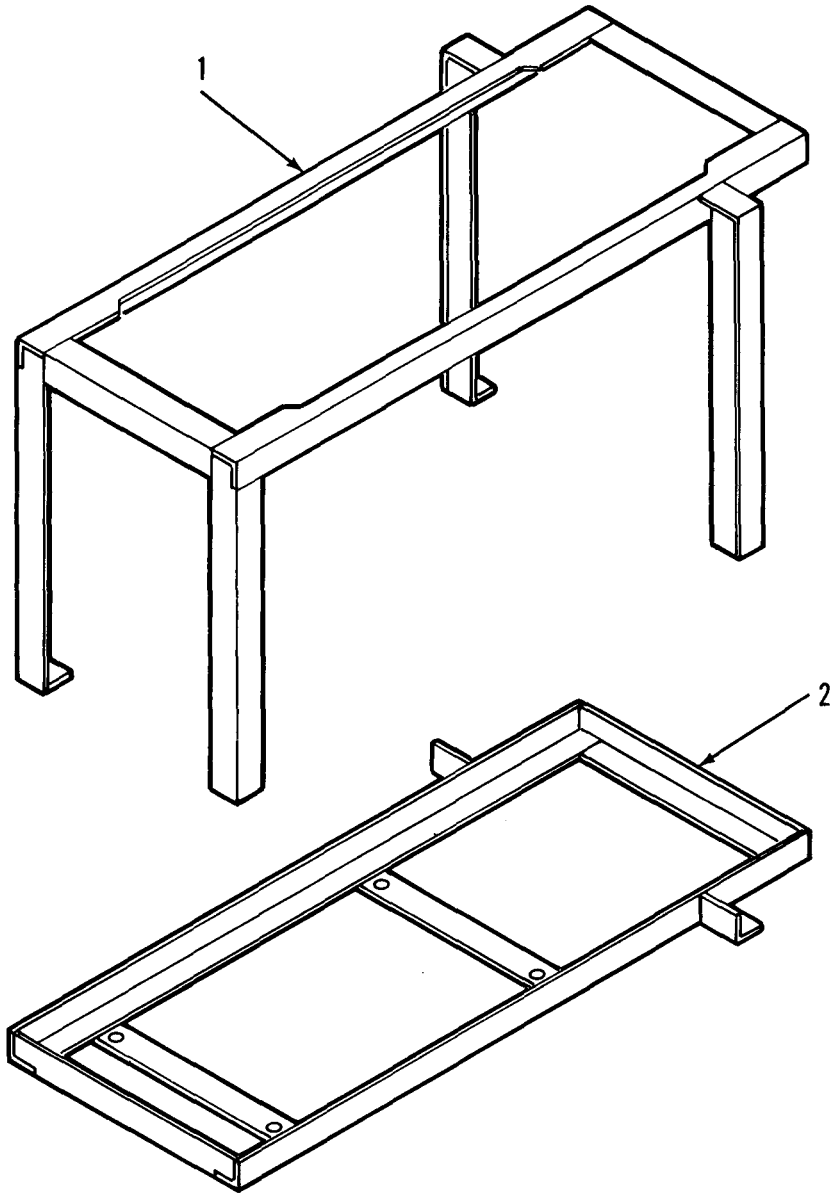


Figure C-2. Mounting Cage Assembly, 31-15-2867

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 01 CAGE MOUNT ASSEMBLY	
				FIG. C-2 CAGE MOUNT ASSEMBLY 31-15-2867	
1	XDOZZ	81361	31-15-2844	CAGE MOUNT,TOP	2
2	XDOZZ	81361	31-15-2845	CAGE MOUNT, BOTTOM	2
				END OF FIGURE	

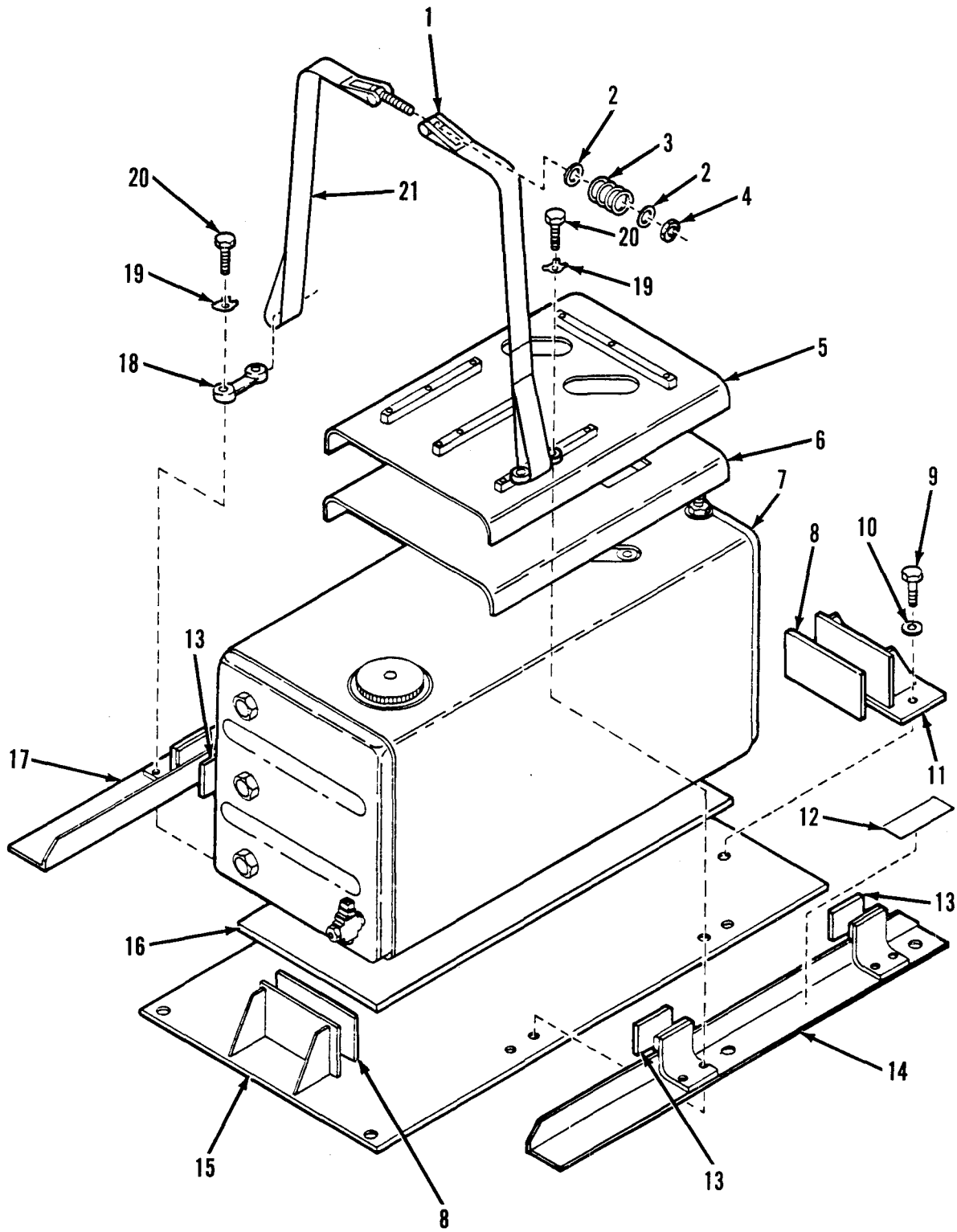


Figure C-3. Tank Unit, Liquid Dispenser, 31-15-2805

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 02 LIQUID DISPENSER TANK UNIT	
				FIG. C-3 LIQUID DISPENSER TANK UNIT 31-15-2902	
1	XDOZZ	81361	31-15-2905	STRAP,RETAINING	2
2	PAOZZ	96906	MS27183-13	WASHER,FLAT	4
3	PAOZZ	19207	11633320	SPRING,HELICAL,COMP	2
4	PAOZZ	96906	MS21044N5	NUT,SELF-LOCKING,HE	2
5	XAOZZ	81361	31-15-2812	RESTRAINT,TOP	1
6	MOOZZ	81361	31-15-2809	PAD, RUBBER 29.50 IN W X 26.25 IN L, MAKE FROM RUBBER SHEET, P/N 11678085-2/NSN9320-00-009-0213	1
7	XDOOO	81361	31-15-2903	TANK,FOG OIL	1
8	MOOZZ	81361	31-15 -2808-2	PAD, RUBBER 5.00 IN. W X 9.75 IN. L,MAKE FROM RUBBER SHEET,P/N 11678085-2/NSN9320-00-009-0213	1
9	PAOZZ	96906	MS90728-113	SCREW,CAP,HEXAGON H	2
10	PAOZZ	96906	MS27183-18	WASHER,FLAT	2
11	XAOZZ	81361	31-15-2811	RESTRAINT,FORWARD	1
12	XDOZZ	81361	31-15 -2865-6	PLATE,IDENTIFICATION	1
13	MOOZZ	81361	31-15 -2808-3	PAD, RUBBER 2.50 IN.W X 4.00 L, MAKE FROM RUBBER SHEET, P/N 11678085-2 SN9320-00-009-0213	4
14	XAOZZ	81361	31-15-2810-20	RESTRAINT,SIDE	1
15	XAOZZ	81361	31-15-2807	BASEPLATE	1
16	MOOZZ	81361	31-15 -2808-1	PAD, RUBBER 19.00 IN. W X 46.50 IN. L, MAKE FROM RUBBER SHEET, P/N 11678085-2/NSN9320-00-009-0213	1
17	XAOZZ	81361	31-15-2810-10	RESTRAINT,SIDE	1
18	PAOZZ	19207	11633316	ANCHOR STRAP	4
19	PAOZZ	19207	10863380	WASHER,KEY	8
20	PAOZZ	96906	MS90725-67	SCREW,CAP,HEXAGON H	8
21	XDOZZ	81361	31-15-2904	STRAP,RETAINGING	2
				END OF FIGURE	

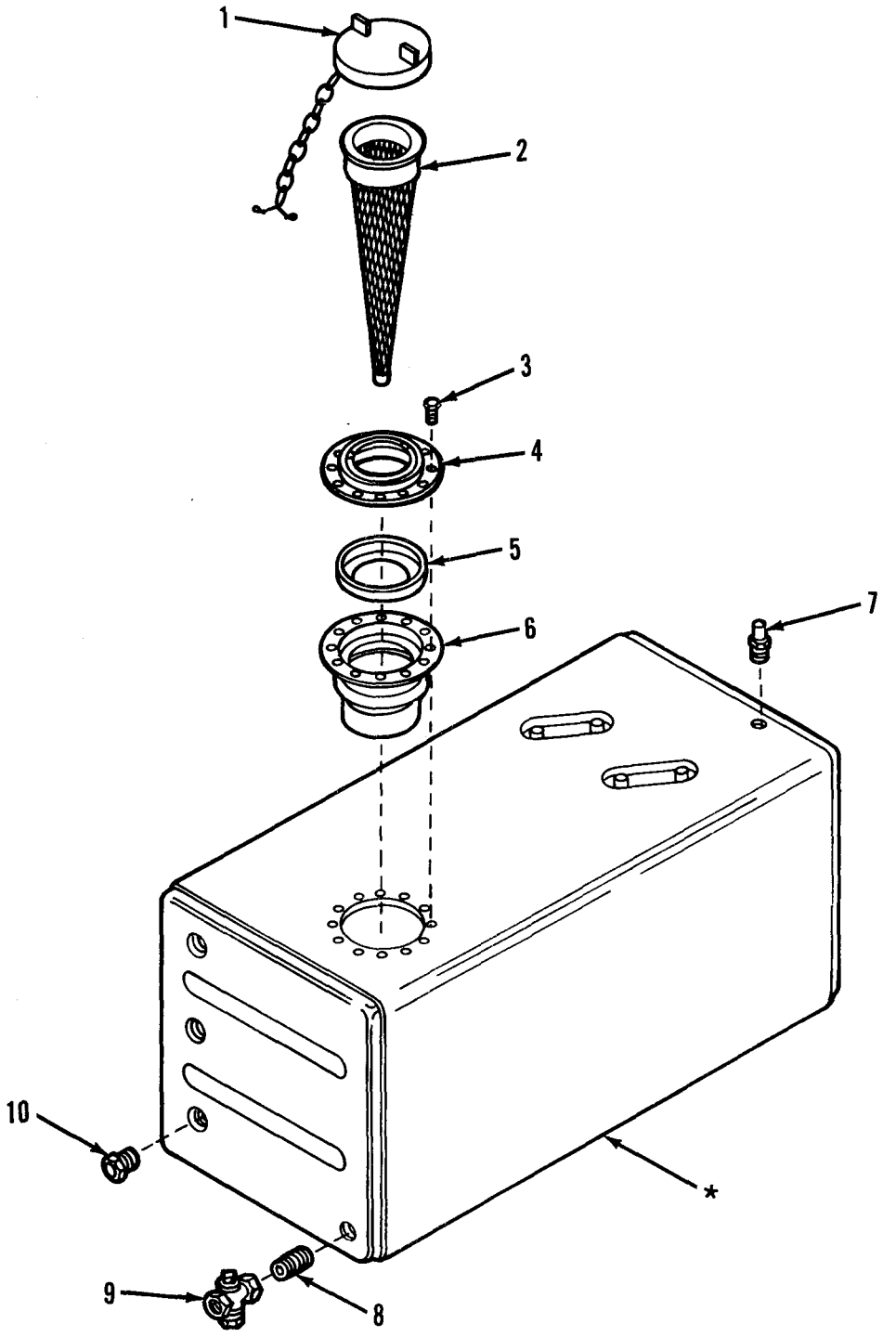


Figure C-4. Tank, Liquid Dispenser, 31-15-2806

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 0201 LIQUID DISPENSER TANK	
				FIG C-4 LIQUID DISPENSER TANK 31-15-2903	
1	PAOZZ	96906	MS53075-2	CAP, FILLER OPENING	1
2	XDOZZ	81361	31-15-2815	STRAINER ELEMENT, SE	1
3	PAOZZ	96906	MS5	SCREW, CAP, HEXAGON H	12
4	PAOZZ	19207	11633313	RETAINER, STRAINER, F	1
5	XDOZZ	19207	10861293	FILLER NECK	1
6	PAOZZ	19207	11633836	BOOT, DUST AND MOIST	1
7	PAOZZ	96906	MS5	ADAPTER, STRAIGHT, PI	1
8	PAOZZ	19207	10932983-9	NIPPLE, PIPE	1
9	PAOZZ	19207	11647005	VALVE, PLUG	1
10	PAOZZ	81361	31-15-2886	INDICATOR, SIGHT, LIQ LEVEL	6
				END OF FIGURE	

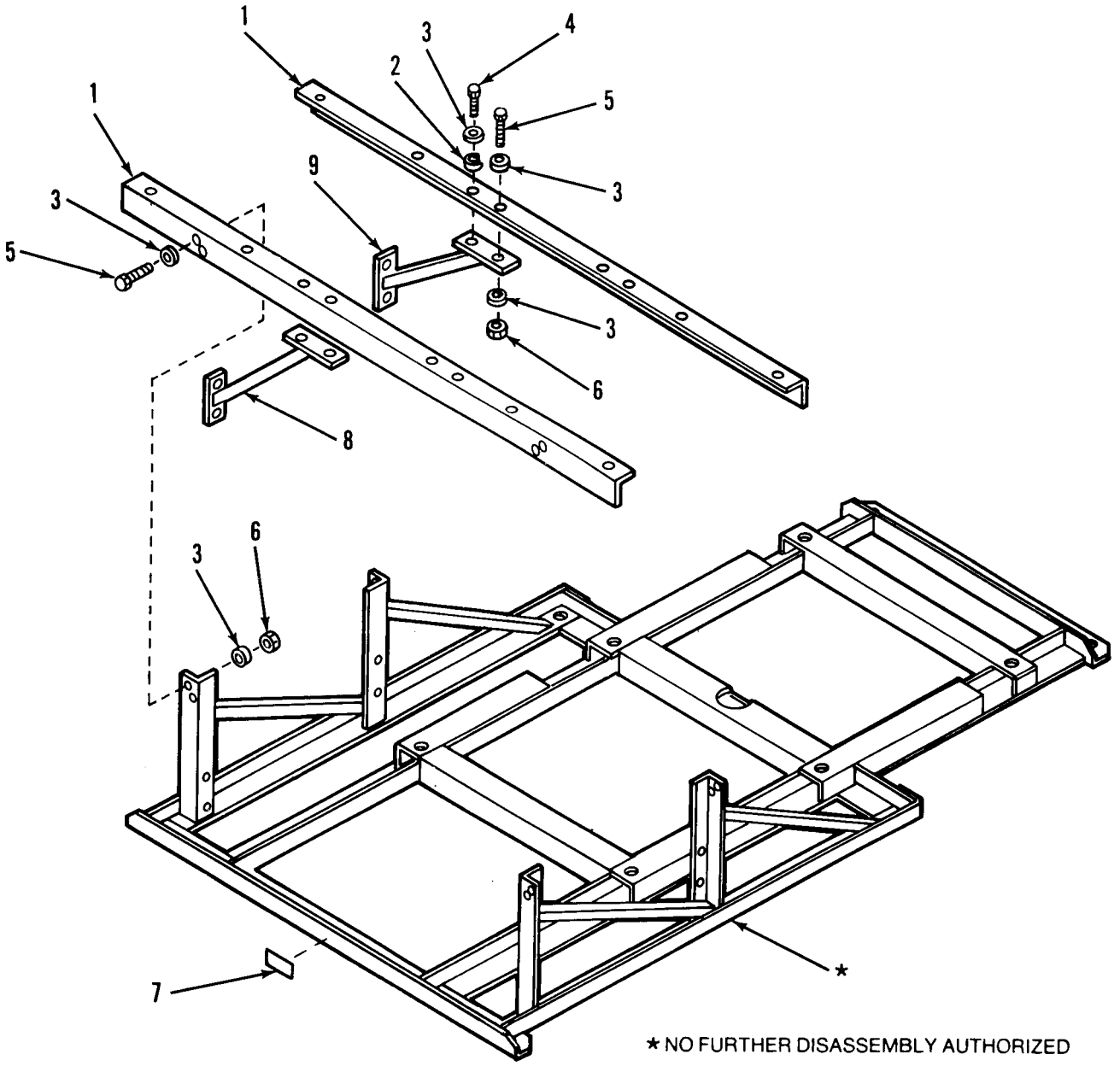


Figure C-5. Frame Assembly, 31-15-2857

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 03 FRAME ASSEMBLY	
				FIG. C-5 FRAME ASSEMBLY 31-15-2857	
1	XDOZZ	81361	31-15-2842	ANGLE, GENERATOR SUPPORT RAIL	2
2	PAOZZ	96906	MS35338-47	WASHER,LOCK	2
3	PAOZZ	96906	MS27183-16	WASHER,FLAT	62
4	PAOZZ	96906	MS90727-85	SCREW,CAP,HEXAGON H	2
5	PAOZZ	96906	MS90727-87	SCREW,CAP,HEXAGON H	30
6	PAOZZ	96906	MS21045-L7	NUT, SELF-LOCKING,HE	30
7	XDOZZ	81361	31-15-2881	I.D.PLATE	1
8	XDOZZ	81361	31-15-2847	LEG, SUPPORT RAIL	2
9	XDOZZ	81361	31-15-2848	LEG, SUPPORT RAIL	2
				END OF FIGURE	

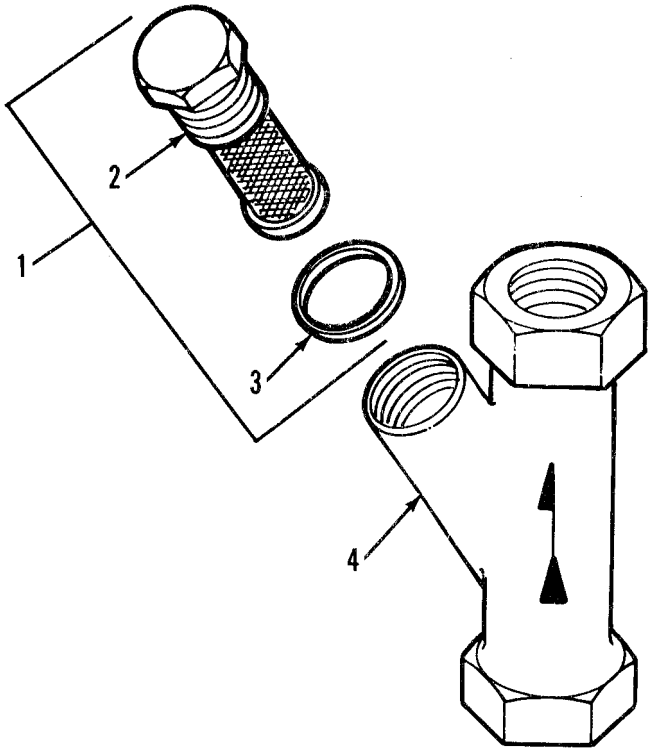


Figure C-6. *Strainer Assembly, A-15* 177

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON ON CODES (UOC)	(6) QTY
				GROUP 04 STRAINER ASSEMBLY	
				FIG. C-6 STRAINER ASSEMBLY	
1	PAOOO	41947	A15123	STRAINER ELEMENT	1
2	XAOZZ	41947	NPN	PLUG AND STRAINER	1
3	PAOZZ	41947	A9681	GASKET	1
4	XAOZZ	41947	A9679	STRAINER BODY	1
				END OF FIGURE	

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 9999 BULK ITEMS LIST	
				FIG BULK	
1	PAOZZ	19207	11678085-2	RUBBER SHEET, CELLUL	3
				END OF FIGURE	

Section III. SPECIAL TOOLS LIST

Not applicable

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM
9320-00-009-0213	BULK	1
5305-00-068-0515	C-1	18
5305-00-071-2069	C-3	9
5305-00-071-2070	C-1	14
5305-00-071-2072	C-1	25
5310-00-080-6004	C-1	30
5310-00-087-7493	C-3	2
5310-00-088-0553	C-3	4
2910-00-116-5243	C-4	1
2910-00-124-1307	C-4	4
4820-00-126-1884	C-4	9
2530-00-159-8936	C-4	6
5310-00-209-0965	C-5	2
5310-00-225-6993	C-1	28
4730-00-231-5598	C-1	10
5305-00-269-2804	C-1	29
5305-00-269-3217	C-3	20
4730-00-287-1877	C-1	9
4730-00-289-0383	C-4	7
5360-00-420-9082	C-3	3
5340-00-435-7714	C-3	18
2590-00-473-6331	C-1	31
5310-00-488-3889	C-1	22
4730-00-555-1352	C-1	8
5310-00-655-9668	C-3	19
5305-00-709-8517	C-5	4
5305-00-709-8523	C-5	5
5305-00-725-4183	C-1	27
4210-00-775-0127	C-1	17
5310-00-809-4085	C-5	3
5310-00-809-5998	C-1	15
	C-3	10
5310-00-809-8533	C-1	13
5310-00-823-8804	C-1	19
5310-00-857-4948	C-1	33
5310-00-857-5557	C-1	20
5310-00-857-5562	C-1	26
5310-00-857-5975	C-1	16
5310-00-857-5976	C-5	6
4730-00-900-4996	C-4	8
5305-00-916-2345	C-1	12
5305-00-943-5928	C-4	3
4820-01-046-6529	C-1	11
5365-01-258-7939	C-1	24
5365-01-258-7940	C-1	23
6680-01-267-2168	C-4	10
4730-01-281-9682	C-1	4
4930-01-285-0138	C-1	2
4730-01-287-0952	C-1	5
4730-01-287-0958	C-1	7
4730-01-287-0965	C-1	3
4820-01-287-4011	C-1	6
5330-01-288-2273	C-6	3

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
88044	AN737TW34-38	4730-00-555-1352	C-1	8
14397	AN840-10	4730-00-287-1877	C-1	9
88044	AN914-4	4730-00-231-5598	C-1	10
41947	A15123		C-6	1
41947	A15177	4730-01-281-9682	C-1	4
41947	A9679		C-6	4
41947	A9681	5330-01-288-2273	C-6	3
11649	B-12-HRN-8	4730-01-287-0965	C-1	3
11649	B-8-ME	4730-01-287-0952	C-1	5
01317	CS4210-009AEG	4210-00-775-0127	C-1	17
07860	C21452	2590-00-473-6331	C-1	31
96906	MS21044N5	5310-00-088-0553	C-3	4
96906	MS21045-L12	5310-00-857-5975	C-1	16
96906	MS21045-L4	5310-00-857-5557	C-1	20
96906	MS21045-L6	5310-00-857-4948	C-1	33
96906	MS21045-L7	5310-00-857-5976	C-5	6
96906	MS21045-L8	5310-00-857-5562	C-1	26
96906	MS27183-13	5310-00-087-7493	C-3	2
96906	MS27183-14	5310-00-080-6004	C-1	30
96906	MS27183-16	5310-00-809-4085	C-5	3
96906	MS27183-18	5310-00-809-5998	C-1	15
			C-3	10
96906	MS27183-23	5310-00-809-8533	C-1	13
96906	MS27183-9	5310-00-823-8804	C-1	19
96906	MS35338-47	5310-00-209-0965	C-5	2
96906	MS51095-306	5305-00-943-5928	C-4	3
96906	MS51500A4	4730-00-289-0383	C-4	7
96906	MS51922-33	5310-00-225-6993	C-1	28
96906	MS51943-39	5310-00-488-3889	C-1	22
96906	MS53075-2	2910-00-116-5243	C-4	1
96906	MS90725-67	5305-00-269-3217	C-3	20
96906	MS90726-113	5305-00-725-4183	C-1	27
96906	MS90726-61	5305-00-269-2804	C-1	29
96906	MS90727-187	5305-00-916-2345	C-1	12
96906	MS90727-8	5305-00-068-0515	C-1	18
96906	MS90727-85	5305-00-709-8517	C-5	4
96906	MS90727-87	5305-00-709-8523	C-5	5
96906	MS90728-113	5305-00-071-2069	C-3	9
96906	MS90728-114	5305-00-071-2070	C-1	14
96906	MS90728-116	5305-00-071-2072	C-1	25
41947	NPN		C-6	2
48422	1/2"4520-B-20-TT	4820-01-287-4011	C-1	6
79470	10512B-108	4730-01-287-0958	C-1	7
19207	10861293		C-4	5
19207	10863380	5310-00-655-9668	C-3	19
19207	10932983-9	4730-00-900-4996	C-4	8
19207	11633313	2910-00-124-1307	C-4	4
19207	11633316	5340-00-435-7714	C-3	18
19207	11633320	5360-00-420-9082	C-3	3
19207	11633836	2530-00-159-8936	C-4	6
19207	11647005	4820-00-126-1884	C-4	9

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
19207	11678085-2	9320-00-009-0213	BULK	1
11243	2600618-1	4820-01-046-6529	C-1	11
81361	31-15-2807		C-3	15
81361	31-15-2808-1		C-3	16
81361	31-15-2808-2		C-3	8
81361	31-15-2808-3		C-3	13
81361	31-15-2809		C-3	6
81361	31-15-2810-10		C-3	17
81361	31-15-2810-20		C-3	14
81361	31-15-2811		C-3	11
81361	31-15-2812		C-3	5
81361	31-15-2815		C-4	2
81361	31-15-2832-10		C-1	32
81361	31-15-2832-20		C-1	35
81361	31-15-2833		C-1	34
81361	31-15-2842		C-5	1
81361	31-15-2844		C-2	1
81361	31-15-2845		C-2	2
81361	31-15-2847		C-5	8
81361	31-15-2848		C-5	9
81361	31-15-2857		C-1	21
81361	31-15-2865-6		C-3	12
81361	31-15-2867		C-1	1
81361	31-15-2881		C-5	7
81361	31-15-2883	5365-01-258-7940	C-1	23
81361	31-15-2884	5365-01-258-7939	C-1	24
81361	31-15-2886	6680-01-267-2168	C-4	10
81361	31-15-2902	4930-01-285-0138	C-1	2
81361	31-15-2903		C-3	7
81361	31-15-2904		C-3	21
81361	31-15-2905		C-3	1

CROSS-REFERENCE INDEXES

FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	FSCM	PART NUMBER
BULK	1	9320-00-009-0213	19207	11678085-2
C-1	1		81361	31-15-2867
C-1	2	4930-01-285-0138	81361	31-15-2902
C-1	3	4730-01-287-0965	11649	B-1
C-1	4	4730-01-281-9682	41947	A15177
C-1	5	4730-01-287-0952	11649	B-8-ME
C-1	6	4820-01-287-4011	48422	1/2"4520-B-20-TT
C-1	7	4730-01-287-0958	79470	10512
C-1	8	4730-00-555-1352	88044	AN737TW34-38
C-1	9	4730-00-287-1877	14397	AN840-10
C-1	10	4730-00-231-5598	88044	AN914-4
C-1	11	4820-01-046-6529	11243	2600618-1
C-1	12	5305-00-916-2345	96906	MS90727-187
C-1	13	5310-00-809-8533	96906	MS27183-23
C-1	14	5305-00-071-2070	96906	MS90728-1
C-1	15	5310-00-809-5998	96906	MS27183-18
C-1	16	5310-00-857-5975	96906	MS21045-L12
C-1	17	4210-00-775-0127	01317	CS4210-009AEG
C-1	18	5305-00-068-0515	96906	MS90727-8
C-1	19	5310-00-823-8804	96906	MS27183-9
C-1	20	5310-00-857-5557	96906	MS21045-L4
C-1	21		81361	31-15-2857
C-1	22	5310-00-488-3889	96906	MS51943-39
C-1	23	5365-01-258-7940	81361	31-15-2883
C-1	24	5365-01-258-7939	81361	31-15-2884
C-1	25	5305-00-071-2072	96906	MS90728-1
C-1	26	5310-00-857-5562	96906	MS21045-L8
C-1	27	5305-00-725-4183	96906	MS90726-1
C-1	28	5310-00-225-6993	96906	MS51922-33
C-1	29	5305-00-269-2804	96906	MS90726-61
C-1	30	5310-00-080-6004	96906	MS27183-14
C-1	31	2590-00-473-6331	07860	C21452
C-1	32		81361	31-15-2832-10
C-1	33	5310-00-857-4948	96906	MS21045-L6
C-1	34		81361	31-15-2833
C-1	35		81361	31-15-2832-20
C-2	1		81361	31-15-2844
C-2	2		81361	31-15-2845
C-3	1		81361	31-15-2905
C-3	2	5310-00-087-7493	96906	MS27183-13
C-3	3	5360-00-420-9082	19207	11633320
C-3	4	5310-00-088-0553	96906	MS21044N5
C-3	5		81361	31-15-2812
C-3	6		81361	31-15-2809
C-3	7		81361	31-15-2903
C-3	8		81361	31-15-2808-2
C-3	9	5305-00-071-2069	96906	MS90728-1
C-3	10	5310-00-809-5998	96906	MS27183-18
C-3	11		81361	31-15-2811
C-3	12		81361	31-15-2865-6
C-3	13		81361	31-15-2808-3

CROSS-REFERENCE INDEXES

FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	FSCM	PART NUMBER
C-3	14		81361	31-15-2810-20
C-3	15		81361	31-15-2807
C-3	16		81361	31-15-2808-1
C-3	17		81361	31-15-2810-10
C-3	18	5340-00-435-7714	19207	11633316
C-3	19	5310-00-655-9668	19207	10863380
C-3	20	5305-00-269-3217	96906	MS90725-67
C-3	21		81361	31-15-2904
C-4	1	2910-00-116-5243	96906	MS53075-2
C-4	2		81361	31-15-2815
C-4	3	5305-00-943-5928	96906	MS51095-306
C-4	4	2910-00-124-1307	19207	11633313
C-4	5		19207	10861293
C-4	6	2530-00-159-8936	19207	11633836
C-4	7	4730-00-289-0383	96906	MS5
C-4	8	4730-00-900-4996	19207	10932983-9
C-4	9	4820-00-126-1884	19207	11647005
C-4	10	6680-01-267-2168	81361	31-15-2886
C-5	1		81361	31-15-2842
C-5	2	5310-00-209-0965	96906	MS35338-47
C-5	3	5310-00-809-4085	96906	MS27183-16
C-5	4	5305-00-709-8517	96906	MS90727-85
C-5	5	5305-00-709-8523	96906	MS90727-87
C-5	6	5310-00-857-5976	96906	MS21045-L7
C-5	7		81361	31-15-2881
C-5	8		81361	31-15-2847
C-5	9		81361	31-15-2848
C-6	1		41947	A15123
C-6	2		41947	NPN
C-6	3	5330-01-288-2273	41947	A9681
C-6	4		41947	A9679

APPENDIX D

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

D-1. SCOPE. This appendix lists expendable/durable supplies and materials you will need to maintain the mounting kit. This listing is for informational purposes only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic Items),or CTA8-100, Army Medical Department Expendable/Durable Items.

D-2. EXPLANATION OF COLUMNS.

a. *Column (1) Item Number.* This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use polyurethane coating, item 8, app D").

b. *Column (2) Level.* This column identifies the lowest level of maintenance that requires the listed item.

C-Operator/Crew
O-Unit Maintenance

c. *Column(3) National Stock Number.* This is the National Stock Number assigned to the item; use it to request or requisition the item.

d. *Column (4) Description* . Idicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Federal Supply Code for Manufacturer (FSCM) in parentheses followed by the part number.

e. *Column (5) Unit of Measure* (U/M). Indicates the measure used in performing the actual rnaintenance function. This measure is expressed by a two-character alphabetic abbreviation (e.g., ea, in., pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

Section II. EXPENDABLE/DURABLE SUPPLIES

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	0	8040-00-290-4301	Adhesive (02769)	QT
2	0	8020-00-721-9650	Brush, Paint (80244) TY2SZ1	EA
3	O	9150-01-054-6453	Cleaner, Lubricant and Preservative (81	PT
4	0	5350-00-174-1001	Cloth, Abrasive (58536)	EA
5	0	6850-00-281-1985	Dry Cleaning Solvent (58536)	GL
6	0	8010-01-193-0516	Epoxy Primer Coating Kit (81349)	KT
7	0	9330-00-003-6171	Plastic Strip (52152)	FT

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
8	0	8010-01-160-6741	Polyurethane Coating Coating (81349) MIL-C-46168	KT
9	0	7920-00-205-1711	Rag, Wiping (58536) A-A-531	LB
10	0	8030-00-849-0071	Sealing Compound (77247) FORMAGASKETNO2	OZ
11	0	5975-01-034-5871	Strap, Tie Down (96906) MS3367-7-0	EA
12	0	6810-00-664-0387	Trichloroethane Technical (81348) O-T-620	GL
13	0	9505-01-054-2676	Wire, Nonelectrical (96906) MS20995C32	LB

APPENDIX E

ILLUSTRATED LIST OF MANUFACTURED ITEMS

Section I. INTRODUCTION

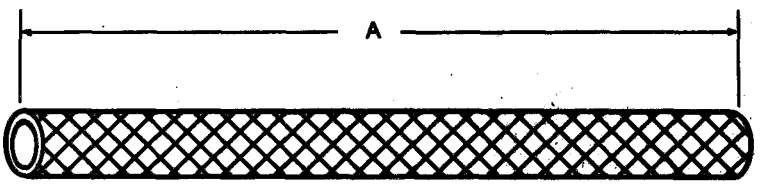
E-1. This appendix includes cornplete instructions for making items auihorized to be manufactured or fabricated at unit or intermediate direct support maintenance level.

E-2. A part number index in alphanumeric order cross-references the part number of the item to be manufactured to the figure which covers fabrication criteria.

E-3. All bulk materials needed for manufacture of an item are listed by national stock number and part number on the illlustration.

INDEX

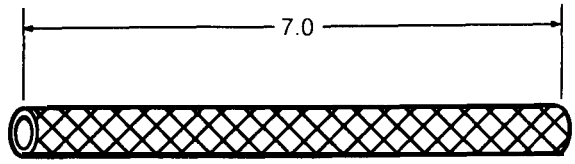
Section II. MANUFACTURED ITEMS



	A
LEFT GENERATOR	8.5
RIGHT GENERATOR	5.5

NOTES:
1. FABRICATE FROM 3/4 IN. ID NONMETALLIC HOSE (NSN 4720-00-809-2889, P/N CS4720-0018FR).
2. DIMENSIONS ARE IN FEET.

Figure E-1. Fog 0il Inlet Hose (31-15-2864-29)



NOTES:
1. FABRICATE FROM 5/8 IN. ID NONMETALLIC HOSE (NSN 4720-00-278-1107, P/N MIL-H-6000-5/8-ID-X-I OD).
2. DIMENSIONS ARE IN FEET.

Figure E-2. Fog Oil Exhaust Hose (31-15-2864-30)

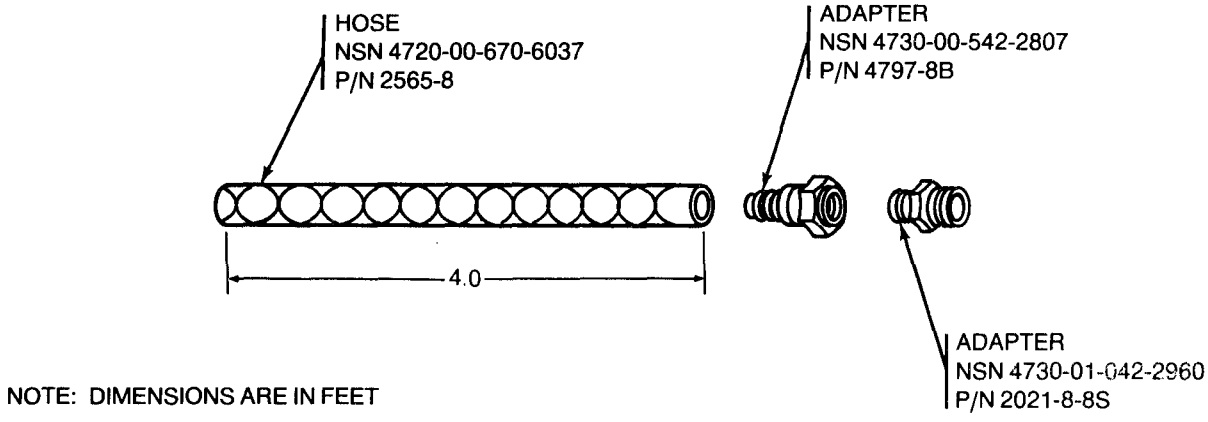
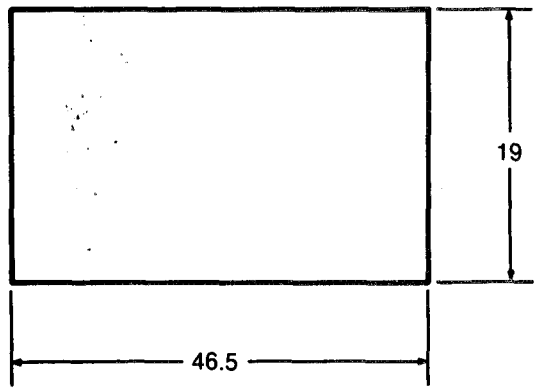
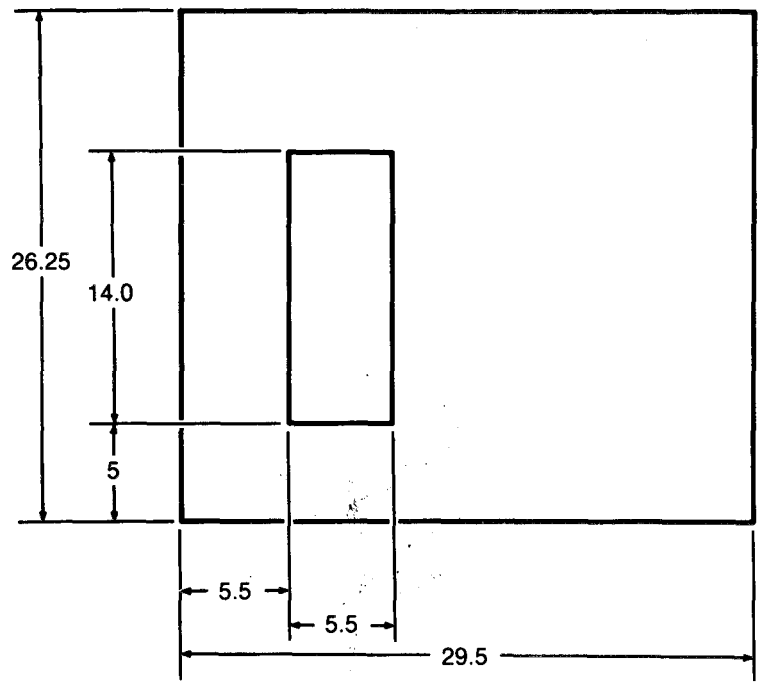


Figure E-3. Drain Hose



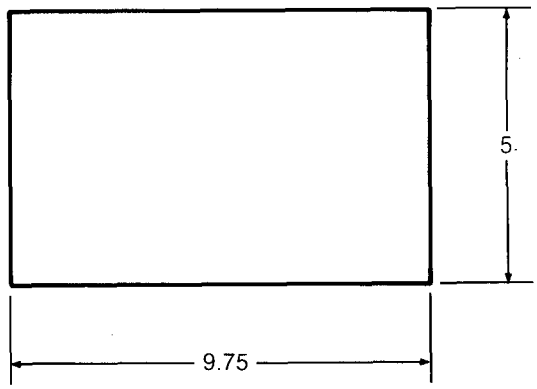
NOTES:
1. FABRICATE FROM CELLULAR RUBBER (P/N 11678085-2)
2. DIMENSIONS ARE IN INCHES.

Figure E-4. Bottom Rubber Pad (31-15-2808-1)



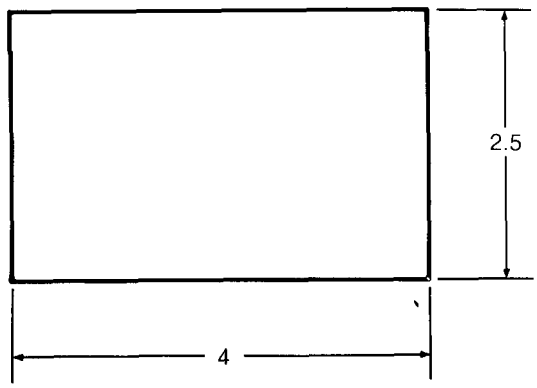
NOTES:
1. FABRICATE FROM CELLULAR RUBBER (P/N 11678085-2)
2. DIMENSIONS ARE IN INCHES.

Figure E-5. Top Rubber Pad (31-15-2809)



NOTES:
1. FABRICATE FROM CELLULAR RUBBER (P/N 11678085-2).
2. DIMENSIONS ARE IN INCHES.

Figure E-6. End Rubber Pads (31-15-2808-2)



NOTES:
1. FABRICATE FROM CELLULAR RUBBER (P/N 11678085-2)
2. DIMENSIONS ARE IN INCHES.

Figure E-7. Side Rubber Pads (31- 15-2808-3)

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THE METRIC SYSTEM AND EQUIVALENTS

LINEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
1 Kilogram = 1000 Grams = 2.2 Lb
1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches
1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet
1 Sq Kilometer = 1,000,000 Sq Meters = 0.386 Sq Miles

CUBIC MEASURE

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

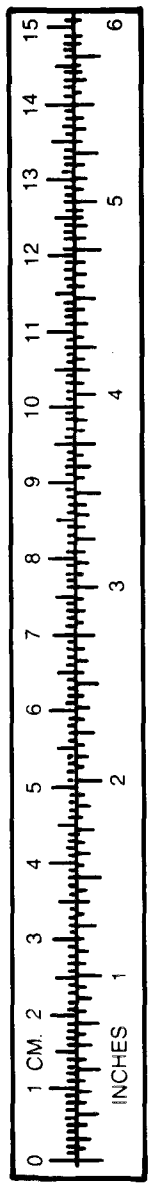
TEMPERATURE

5/9 (°F - 32) = °C
212° Fahrenheit is equivalent to 100° Celsius
90° Fahrenheit is equivalent to 32.2° Celsius
32° Fahrenheit is equivalent to 0° Celsius
9/5 C° + 32 = F°

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621



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