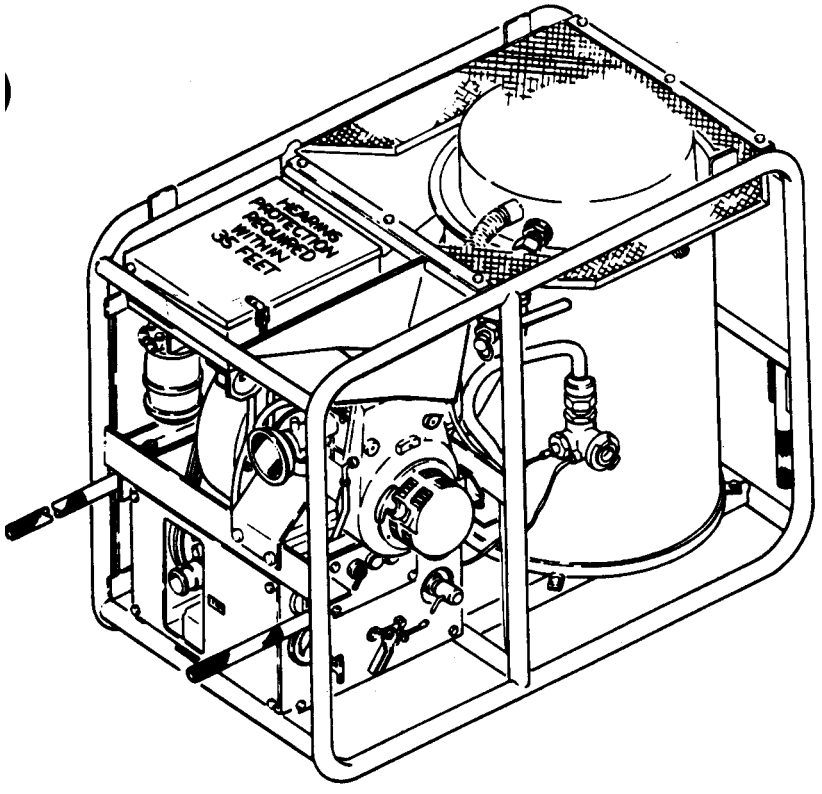
TECHNICAL MANUAL

DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

FOR

DECONTAMINATING APPARATUS: POWER-DRIVEN, PORTABLE, TYPE A/E32U-8

NSN: 4230-01-153-8660



HEADQUARTERS, DEPARTMENT OF THE ARMY

MARCH 1987

WARNING

The decontaminating apparatus weighs over 360 lbs. To avoid back injury, use a minimum of four people to move it. In loading onto a transport vehicle use a minimum of 6 people or a loading ramp.

The cleaning solvent used emits strong vapors and is flammable. To avoid illness or fire, use in a well-ventilated area and away from open flames. DO NOT breathe vapors for a prolonged time.

To avoid hearing damage wear approved hearing protection as the equipment operates at a very high noise level.

For general First Aid information, refer to FM 21-11 (TEST).

When working on fuel systems, catch leaking fuel in any small container available. Be extremely careful to avoid sparks and flames.

TECHNICAL MANUAL
NO: 3-4230-218-30&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C. 31 March 1987

Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for DECONTAMINATING APPARATUS: POWER-DRIVEN, PORTABLE, TYPE A/E32U-8 (NSN 4230-01-153-8660)

Current as of March 1987 for Appendix B

REPORTING OF 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 procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Armament, Munitions, and Chemical Command, ATTN: AMSMC-MAR-ED (A), Aberdeen Proving Ground, MD 21010-5423. A reply will be furnished to you.

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HOW TO USE THIS MANUAL

General.

This manual contains direct support maintenance procedures for the Decontaminating Apparatus: Power-Driven, Portable, Type A/E32U-8 and its auxiliary equipment. At the beginning of each chapter, you will find an index of the topics covered in the chapter.

Instructions for direct support procedures are in Chapter 2. In using these procedures, you must familiarize yourself with an entire maintenance procedure before beginning a specific maintenance task.

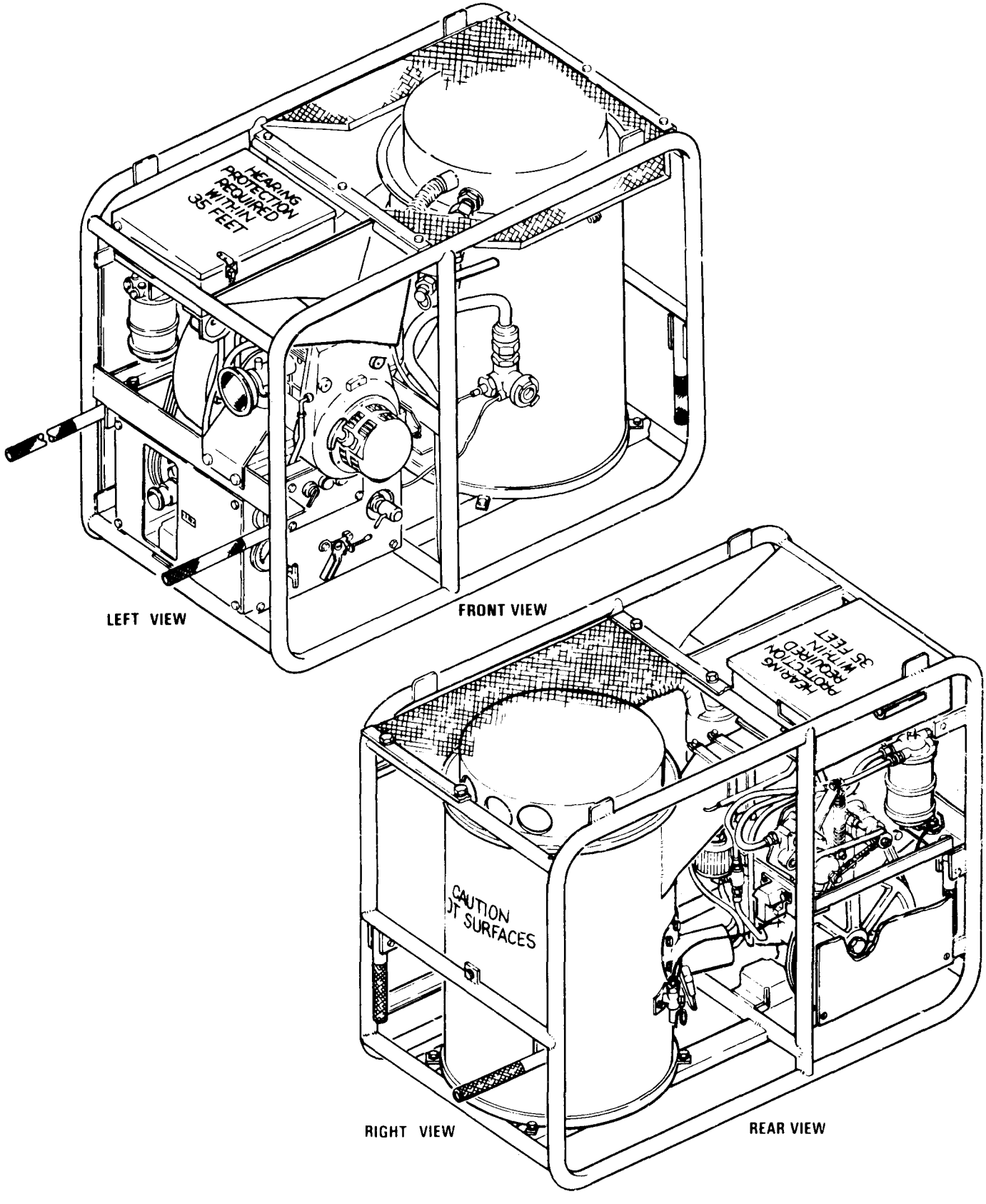
Read all the Warnings before you begin operating your equipment. Read each procedure completely before beginning a task. References in the manual are to pages, paragraphs and appendices or other publication.

This manual is organized for you to quickly find needed information. Several useful indexes are provided.

a. Front Cover Index - Tabbed index of major functions and appendices are keyed to tabbed pages in the manual. These major items are also enclosed in boxed areas in the table of contents.

b. Table of Contents - List of chapters, sections and appendices.

c. Alphabetical Index - Extensive index for each subject, located at the end of the manual.



Decontaminating Apparatus: Power-Driven, Portable, Type A/E32U-8.

CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE.

a. Type of Manual. This manual is a Direct Support Maintenance Manual including a Repair Parts and Special Tools List (RPSTL).

b. Model Number and Equipment Name. The official equipment nomenclature is the Decontaminating Apparatus: Power-Driven, Portable, Type A/E32U-8 .

c. Purpose of Equipment. The equipment is used to decontaminate equipment, personnel and other material exposed to nuclear, biological, or chemical contaminants. It is used with water and also water mixed with decontamination agents. When using decontaminating agents, the injector must be used.

1-2. MAINTENANCE FORMS AND RECORDS.

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 Update.

1-3. REPORTING OF EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR's).

If your Decontaminating Apparatus 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. 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.

1-4. REFERENCE.

a. Nomenclature Cross-Reference List.

Common Name	Official Nomenclature
Decontaminating Apparatus	Decontaminating Apparatus: Power-Driven, Portable, Type A/E32U-8
Accessory Kit	Storage Accessory Box and Accessories
Cleaning Wands	Jets
Water Pump	Water Inlet Assembly

1-5. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

For procedures and materials used to destroy the Decontaminating Apparatus, refer to TM 43-0002-31, Destruction of Chemical Weapons and Defense Equipment to Prevent Enemy Use.

Section II. EQUIPMENT DESCRIPTION AND DATA

1-6. GENEARAL.

Refer to TM 3-4230-218-12&P (Operator and Organizational Maintenance Manual for the Decontaminating Apparatus: Power-Driven, Portable, Type A/E32U-8) for unit description, data, and for location and description of major components.

Section III. PRINCIPLES OF OPERATION

1-7. GENERAL.

a. The decontaminating apparatus has five major systems: the engine, air system, water system, heater system, and electronic control system. These systems provide a supply of pressurized, temperature-controlled water. After the system is operating, the operator is required to periodically monitor the output water temperature and fuel supplies.

b. No external power is required to operate the system. Only a source of water and fuel is needed. Decontamination may be conducted in the following three ways:

(1) Decontamination of material and equipment using the cleaning wands.

(2) Decontamination of personnel using the showers.

(3) Decontamination using the injector and decontaminating agents.

1-8. ENGINE PRINCIPLES OF OPERATION.

a. The engine is a one-cylinder, 2 cycle, air-cooled, power source that develops 7.3 horsepower at 4250 rpm. A centrifugal clutch drives the combustion air fan, the water pump, and the heater fuel pump. The clutch begins to drive the fan, water pump, and fuel pump when the engine speed exceeds 2700 rpm. A diaphragm fuel pump operates on pulsating crankcase pressure to supply fuel to the engine carburetor.

b. The engine has a built-in generator. The generator supplies 6 V-ac at 17 watts to power the electronic control system. A manual recoil starter is used to start the engine.

1-9. AIR SYSTEM PRINCIPLES OF OPERATION.

The air system consists of the axial vane fan enclosed in a shroud. When the centrifugal clutch engages, the fan assists in drawing air from around the engine cooling fins to cool the engine and provide preheated air to the heat exchanger. In the heat exchanger, the air is used for combustion which in turn heats the water in the heating coil.

1-10. WATER SYSTEM PRINCIPLES OF OPERATION.

The water system consists of an over-capacity, roller-type pump that is belt driven by the engine through the centrifugal clutch. The pump can provide varying flow rates at the water outlet and is controlled by a pressure regulator valve on the control panel. The water pressure regulator valve will allow any over supply of water to be returned to the inlet side of the pump.

1-11. HEAT EXCHANGER SYSTEM PRINCIPLES OF OPERATION.

The heat exchanger system is a double-walled, convection type. The functional components consist of a burner and a heating coil. The burner is fired by an electronic ignition system through a spark plug. Pressurized fuel is received and atomized by the burner jet. Air is received from the fan in the burner, mixed with the atomized fuel and ignited. The heated air is then forced around the water coils to heat the water and then out through the exhaust side of the heat exchanger.

1-12. ELECTRONIC CONTROL MODULE PRINCIPLES OF OPERATION.

Through the use of valves, switches, and thermostats, the electronic control module does the following things:

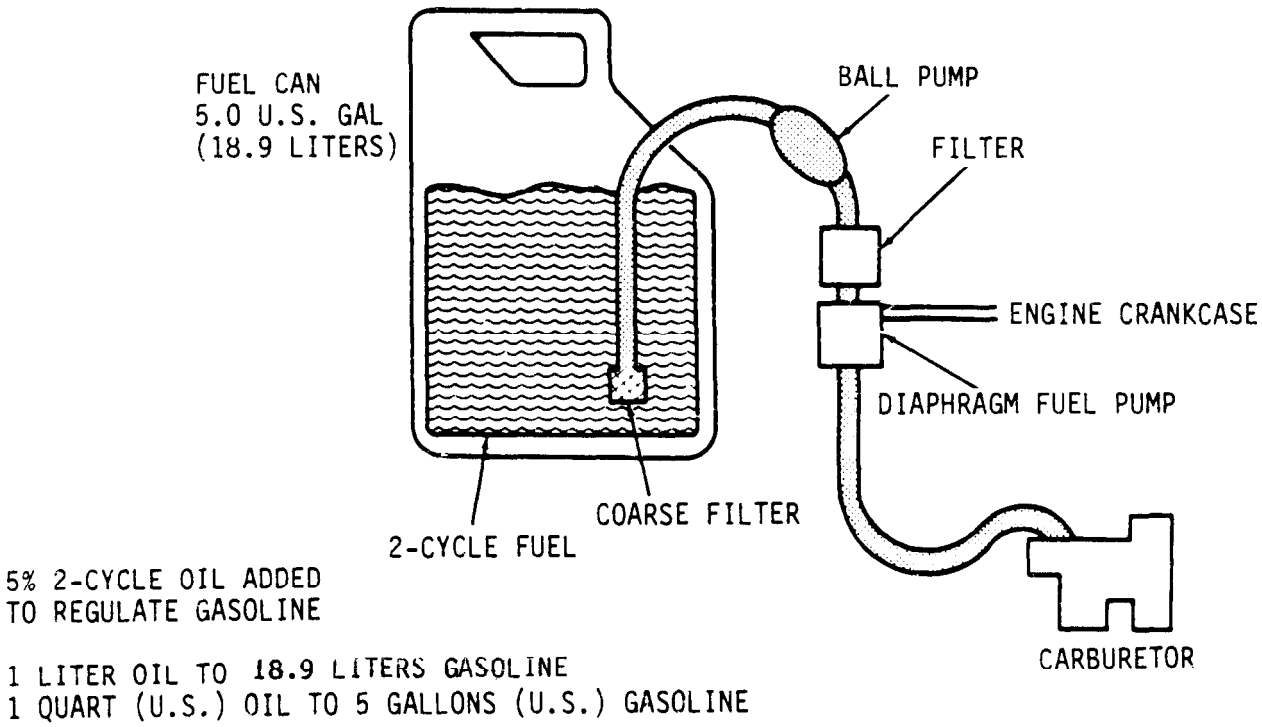
a. Monitors water pressure.

b. Monitors water temperature.

c. Monitors and control burner ignition.

1-13. ENGINE FUEL SYSTEM PRINCIPLES OF OPERATION.

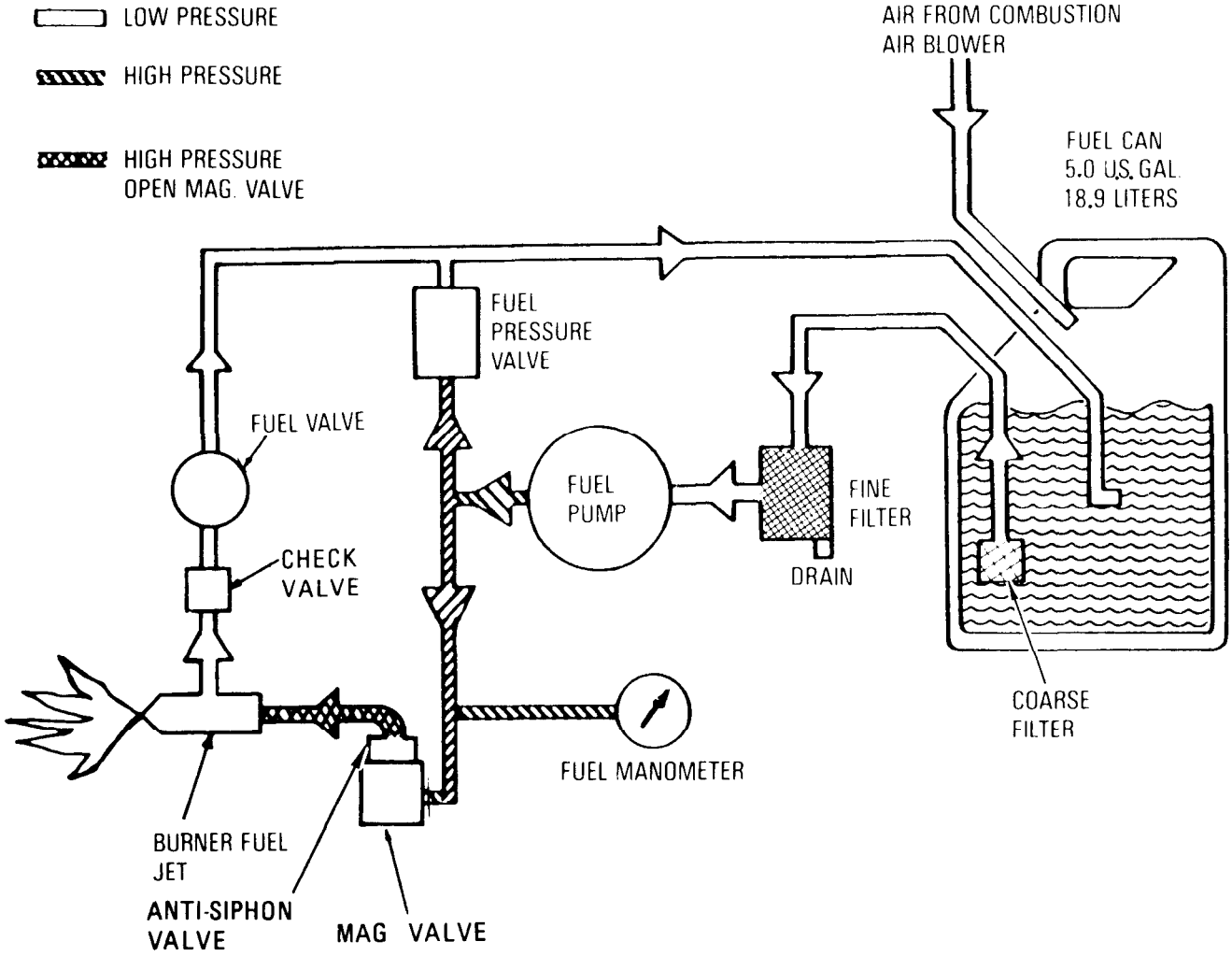
Fuel is supplied to the engine from a five gallon (18.9 liter) fuel can. The ball pump is initially used to prime the fuel system. Fuel is drawn through the coarse fuel can filter and through the fuel inline filter prior to entering the fuel pump and then the carburetor.



Engine Fuel System.

1-14. HEATER FUEL SYSTEM PRINCIPLES OF OPERATION.

Fuel is supplied to the burner from a five gallon (18.9 liter) fuel can. Air from the combustion air fan provides a positive pressure in the fuel can. A coarse filter is located on the inlet to remove the larger particles from the fuel. The fuel then passes to the fine filter to remove the smaller particles. From the engine driven fuel pump, fuel is forced through a magnetic valve and check valve to the burner fuel jet. Unused fuel is bypassed back to the fuel can.



Heater Fuel System.

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

1-15. COMMON TOOLS AND EQUIPMENT.

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

1-16. SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT.

Special tools required for direct support maintenance are listed and illustrated in Appendix B of this manual. TMDE and support equipment are listed in the Maintenance Allocation Chart contained in TM 3-4230-218-12&P.

1-17. REPAIR PARTS.

Repair parts are listed and illustrated in Appendix B of this manual.

CHAPTER 2

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

Section I. Direct Support Troubleshooting
Section II. Direct Support Maintenance Procedures

Section I. DIRECT SUPPORT TROUBLESHOOTING

2-1. INTRODUCTORY INFORMATION.

a. The Symptom Index lists the common malfunctions which you may find during the operation or maintenance of the Decontaminating Apparatus or its components. Look at the Malfunction List until you find the one that you are having. Then go to the page listed and perform the troubleshooting test or inspections listed therein. The corrective action step will direct you to the proper paragraph for performing the corrective action.

b. This manual cannot list all malfunctions that may occur, nor list all the tests or inspections and corrective actions. If a malfunction is not listed or it is not corrected by the listed corrective actions, notify your supervisor.

2-2. SYMPTOM INDEX.

2-3. TROUBLESHOOTING TABLE.

Table 2-1. Direct Support Troubleshooting

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

1. BURNER LIGHTS AND EXTINGUISHES WHEN START BURNER SWITCH IS RELEASED.

Step 1. Check for defective THERMOSTAT SELECTOR switch or thermostats.

Test switch and thermostats (refer to page 2-62).

If switch is not defective, proceed to step 2.

Step 2. Check for loose or broken switch or thermostat wiring.

Repair or replace wiring (refer to page 2-61)

Step 3. If thermostats, swiches and wiring are not defective, control module must be replaced.

Replace control module (refer to page 2-74).

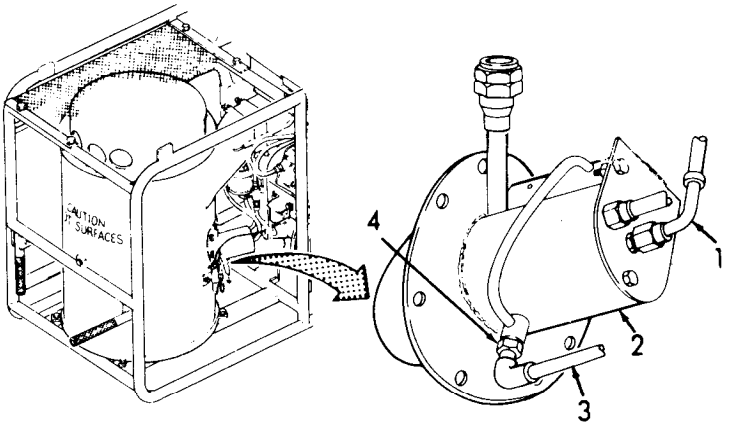
MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

2. BURNER WILL NOT EXTINGUISH WHEN THERMOSTAT SELECTOR SWITCH IS SET TO OFF (OPEN MAG VALVE LIGHT IS OFF).

Step 1. Check that magnetic valve is not stuck open.

a. Tag and disconnect fuel supply line (1) from burner (2). Place fuel supply line in any available metal container.

b. Disconnect burner spark plug lead (3) from spark plug (4) and position as far away from container as possible.



c. Connect all fuel supplies and water inlet and outlet hoses to unit. Refer to TM 3-4230-218-12&P for starting procedures.

d. Start the unit and verify that fuel does not flow from supply line into container.

e. Immediately shut unit down.

f. If fuel flows, replace valve (refer to page 2-52).

If magnetic valve is not stuck, proceed to step 2.

Step 2. Check for leaking or stuck check valve.

a. Operate unit, turn FUEL VALVE counterclockwise 1/4-1/2 turn.

b. Shut unit down, let heater fuel can remain installed and FUEL VALVE turned 1/4-1/2 turn.

c. Disconnect return line from rear of burner.

d. Place open end of return fuel line in suitable container.

2-3.TROUBLESHOOTING TABLE- Continued.

Table 2-1. Direct Support Troubleshooting - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

2. BURNER WILL NOT EXTINGUISH WHEN THERMOSTAT SELECTOR SWITCH IS SET TO OFF (OPEN MAG VALVE LIGHT IS OFF) - Continued.

Step 2. Check for leaking or stuck check valve - Continued.

e. If open end of return fuel line begins to drip fuel, check valve is defective or contaminated with dirt.

f. Reconnect fuel supply line (1) and return line (5) to burner (2).

g. Connect burner spark plug lead (3) to spark plug (4).

If check valve is defective, replace check valve (refer to page 2-13).

If check valve is not defective, reconnect return fuel line and test thermostat selector switch (refer to page 2-62).

3. BURNER WILL NOT EXTINGUISH WHEN THERMOSTAT SELECTOR SWITCH IS SET TO OFF (OPEN MAG VALVE LIGHT IS ON).

Test thermostat selector switch (refer to page 2-62).

4. BURNER WILL NOT LIGHT.

Step 1. Check for loose or improperly connected wires (refer to page 2-62).

If wires are loose, tighten connections.

If wires are not loose or improperly connected, proceed to step 2.

Step 2. Check for defective lighting coil in engine.

a. Remove heater fuel can and panel.

b. Set up water hoses - remove fuel pump drive belt.

c. Remove front panel (refer to page 2-64).

d. Start engine - establish water pressure.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

e. Using multimeter on AC volts refer to system electrical schematic and verify voltage between the yellow wire at terminal 6 and the green wire at terminal 12. If voltage is 6 volts or greater, coil is good, shut engine down, proceed to step 3.

f. If no voltage is present, coil is defective (refer to page 2-29).

Step 3. Check for defective START BURNER switch.

Test START BURNER switch (refer to page 2-62).

If control panel START BURNER switch is not defective, proceed to step 4.

Step 4. Check for defective control panel THERMOSTAT SELECTOR switch.

Test THERMOSTAT SELECTOR switch (refer to page 2-62).

If control panel THERMOSTAT SELECTOR switch is not defective proceed to step 5.

Step 5. Check for defective magnetic valve.

a. Refer to MALFUNCTION 2, Step 1a thru 1d.

b. Turn THERMOSTAT SELECTOR switch to either thermostat postion and press BURNER START button.

c. If fuel flows into container, magnectic valve is operative.

d. If fuel does not flow into container, magnetic valve is defective. Refer to page 2-52.

5. ENGINE KNOCKS OR BACKFIRES.

Step 1. Check for malfunctioning ignition system.

Check for adequacy of spark by attaching spark plug lead to spark plug and laying plug on cylinder head. Pull recoil starter and observe spark of electrodes. If no spark or weak spark is observed, repair engine ignition system (refer to page 2-28).

If spark is seen, proceed to step 2.

2-3. TROUBLESHOOTING TABLE - Continued.

Table 2-1. Direct Support Troubleshooting - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

5. ENGINE KNOCKS OR BACKFIRES - Continued.

Step 2. Check ignition timing.

If engine ignition timing is off, time engine (refer to page 2-31).

If engine is in time, proceed to step 3.

Step 3. Check for leaking or defective carburetor.

Replace or repair carburetor if defective (refer to page 2-40).

If carburetor is functioning properly, replace engine (see page 2-22).

Step 4. Check for carbon build-up in engine exhaust port.

a. Remove muffler (refer to page 2-22).

b. Remove carbon build-up from engine exhaust port using a wood or plastic scraper.

c. Install muffler (refer to page 2-24).

Step 5. Check for worn piston, cylinder, and connecting rod bearings.

a. Slowly rotate engine. If engine makes a clanking or grating noise or does not rotate smoothly, engine bearing, cylinder or piston may be worn.

b. If engine bearing is worn, replace engine (refer to page 2-22). If piston or cylinder is worn, replace worn components (refer to page 2-35).

6. ENGINE OVERHEATS.

See MALFUNCTION 5 if this condition exists.

7. ENGINE RUNS, BURNER WILL NOT LIGHT.

See MALFUNCTION 4 if this condition exists.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

8. ENGINE RUNS ROUGHLY OR STOPS.

See MALFUNCTION 5 if this condition exists.

9. ENGINE WILL NOT START.

See MALFUNCTION 5 if this condition exists.

10. LOW ENGINE POWER OR SPEED.

Step 1. Refer to MALFUNCTION 5 if this condition exists.

Step 2. Check for low engine compression. Remove engine spark plug. Insert engine compression meter into spark plug hole. Pull engine recoil starter handling slowly and note compression reading on tester dial. If engine compression is less than 101 pounds, replace engine piston and rings (refer to page 2-35).

If compression is acceptable, proceed to step 3.

Step 3. Check for carbon build-up in engine exhaust port.

a. Remove muffler (refer to page 2-22), and inspect for carbon build-up in exhaust port.

b. Remove carbon build-up from engine exhaust port using a wood or plastic scraper.

c. Install muffler (refer to page 2-24).

11. LOW WATER PRESSURE.

NOTE

If water is leaking from seal drain holes, seals have been damaged and pump must be replaced (refer to page 2-13).

Step 1. Check for leakage at water pump shaft drains.

a. Verify belts are installed and proper tension exists.

b. Remove inlet cover and verify pump is not leaking from seal drain holes.

c. Verify all pump cover bolts are installed and tightened snug. (DO NOT TORQUE).

2-3. TROBLESHOOTING TABLE - Continued.

Table 2-1. Direct Support Troubleshooting - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

11. LOW WATER PRESSURE - Continued.

Step 1. Check for leakage at water pump shaft drains - Continued.

d. Set up and run unit with open hoses. Observe flow.

e Throttle unit down until clutch disengages and install jets (wands). Advance throttle and adjust WATER PRESSURE REGULATOR valve to 100 psi.

f. If unable to obtain 100 psi, verify proper installation of suction hose, gaskets, filter, and strainer.

g. If still unable to obtain 100 psi, pump is defective and should be replaced (refer to page 2-13).

If water pump is not defective, proceed to step 2.

Step 2. Check for defective or leaking control panel WATER PRESSURE REGULATOR valve.

a. If valve is leaking remove handle and carefully tighten packing nut . Reinstall handle.

b. Start unit, install all accessories and check for leaks.

c. If valve continues to leak, replace water pump (refer to page 2-13).

NOTE

Valve is operative unless valve stem is broken or setscrews from handle do not grip stem properly.

d. Verify that movement of handle affects system water pressure.

If pressure is not affected, stem is broken and water pump should be replaced.

If WATER PRESSURE REGULATOR valve is not defective, proceed to step 3.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

Step 3. Check for slipping clutch.

a. With engine running at a constant speed, examine water pump drive pulley for erratic rotating speeds.

b. If speeds are erratic, clutch is slipping and is defective.

c. If clutch is defective, replace clutch (refer to page 2-33).

d. If clutch is not defective, proceed to step 4.

Step 4. Check for defective manometer assembly.

If proper unit set up is made and water is flowing from accessories but no pressure is indicated, replace water manometer assembly (refer to page 2-71).

12. NO HEATER FUEL PRESSURE.

Step 1. Check for defective or leaking fuel pump.

a. Verify fuel pump turns freely.

b. If fuel pump does not turn freely, replace fuel pump (refer to page 2-56).

c. Set up and start unit.

d. Verify no leaks.

e. If leaks are observed at pump inlet or outlet, tighten fittings.

f. With unit still running, carefully lift fuel lines from fuel can and observe return fuel line fuel flow.

g. If no flow is observed and no pressure is indicated on control panel fuel pressure gage, pump is defective.

h. If fuel pump is defective, replace fuel pump (refer to page 2-56).

i. If fuel pump is not defective, proceed to step 2.

Step 2. Check for slipping clutch.

Refer to MALFUNCTION 11, step 3.

2-3. TROUBLESHOOTING TABLE - Continued.

Table 2-1. Direct Support Troubleshooting - Continued

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

13. NO WATER PRESSURE.

Step 1. Check for defective or leaking water pump.

Refer to MALFUNCTION 11, step 1.

If water pump is not defective, proceed to step 2.

Step 2. Check for slipping clutch.

Refer to MALFUNCTION 11, step 3.

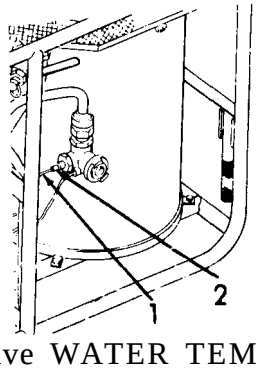
If clutch is not defective, proceed to step 3.

Step 3. Check for defective water manometer assembly.

Refer to MALFUNCTION 11, step 4.

14. NO WATER TEMPERATURE INDICATION.

Step 1. Inspect WATER TEMP gage thermometer sensing bulb (2) and capillary tube (1), for breaks, severe kinks, and secure connection.



Step 2. Check for defective WATER TEMP gage as follows:

a. Fill any available container with ice.

b. Remove sensing bulb from water outlet.

c. Insert bulb in ice bath.

d. After 5-10 minute soak, observe temperature indication of approximately 0°C to 1°C

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

e. If no indication (indicator needle has not moved from previous noted position), WATER TEMP gage is defective. Replace water temperature gage (refer to page 2-70).

f. If ice is not available, obtain some water and heat to boiling.

g. Insert bulb in boiling water.

h. After several minutes observe temperature indication of 100°C.

i. If no indication, WATER TEMP gage is defective. Replace WATER TEMP gage (refer to page 2-70).

15. OPEN MAG VALVE INDICATOR FLUCTUATES.

NOTE

This indicator operates from the flame intensity. If flame is steady and the indicator is fluctuating, troubleshoot as follows:

Step 1. Check for cracked, burned, or broken lamp socket.

If lamp socket is cracked, burned, or broken, replace lamp socket (refer to page 2-66).

If lamp socket is not defective, proceed to step 2.

Step 2. Check for defective magnetic valve.

Refer to MALFUNCTION 4, step 5.

If magnetic valve is not defective, proceed to step 3.

Step 3. Check for defective engine lighting coil.

Refer to MALFUNCTION 4, step 2.

Step 4. Check for malfunctioning electronic module.

Start the decontaminating unit and establish water pressure. Using a multimeter switched to the +DC volt range, verify that the voltage across terminals 12 and 7 of the control panel terminal strip is not less than 10 V-dc.

If required voltage is not present, replace electronic control module (refer to page 2-74).

Section II. DIRECT SUPPORT MAINTENANCE PROCEDURES

2-4. GENERAL.

This section contains the procedures for maintaining the components which are the responsibility of Direct Support Maintenance. These procedures are arranged as follows:

2-5. DECONTAMINATING APPARATUS.

This task consists of:

a. Repair

INITIAL SETUP:

Tools Required:
Tool Kit, General Mechanics
Extractor, Fan
Socket Set, Metric 8-19mm
Tool Kit from Accessory Kit

Materials Required:
Brush, Varnish (Item 1, Appendix C).
Cleaning Solvent (Item 5, Appendix C).
Locking Compound (Item 2, Appendix C).

Equipment Conditions:
Engine shutdown and cool.
Drive belts removed (TM 3-4230-218-12&P).
Burner fuel pump and belt removed (page 2-56).

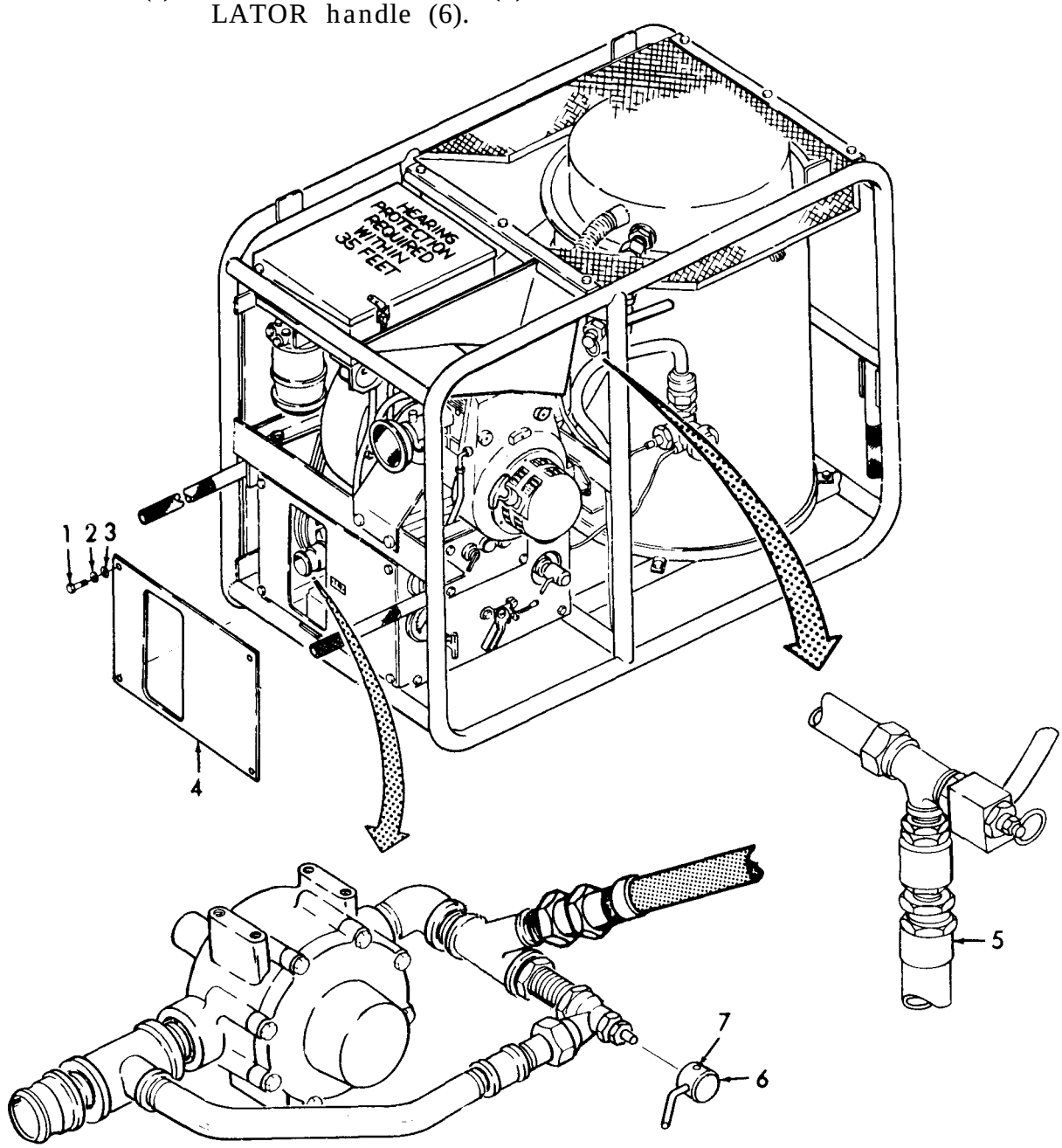
a. Water Inlet Assembly.

(1) Removal.

(a) Remove four bolts (1), four lockwashers (2), four washers (3), and inlet panel (4).

(b) Disconnect hose (5) from water inlet check valve.

(c) Loosen two setscrews (7) and remove WATER PRESS REGULATOR handle (6).



Water Inlet Assembly Piping, Removal.

2-5 DECONTAMINATING APPARATUS - Continued.

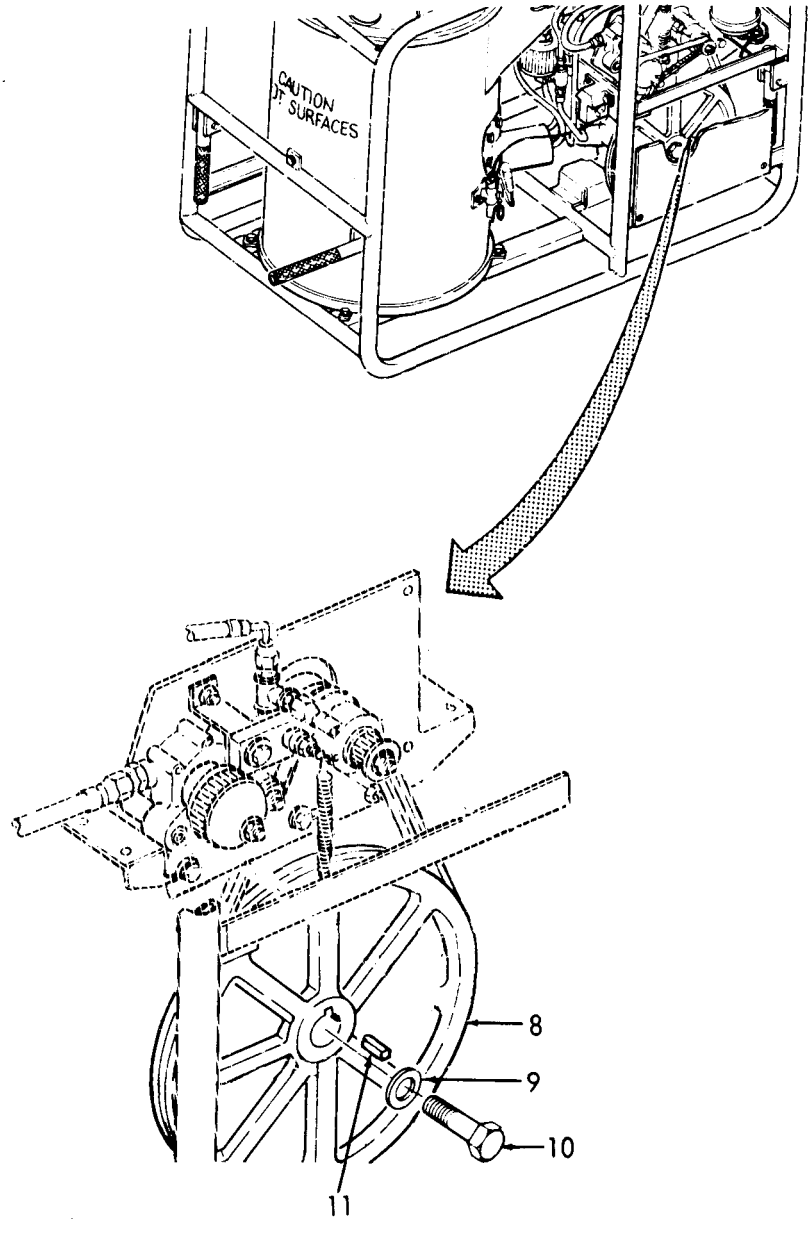
a. Water Inlet Assembly - Continued.

(1) Removal - Continued.

(d) Remove bolt (10) and washer (9).

(e) Using fan extractor, remove drive pulley (8).

(f) Remove key (11).

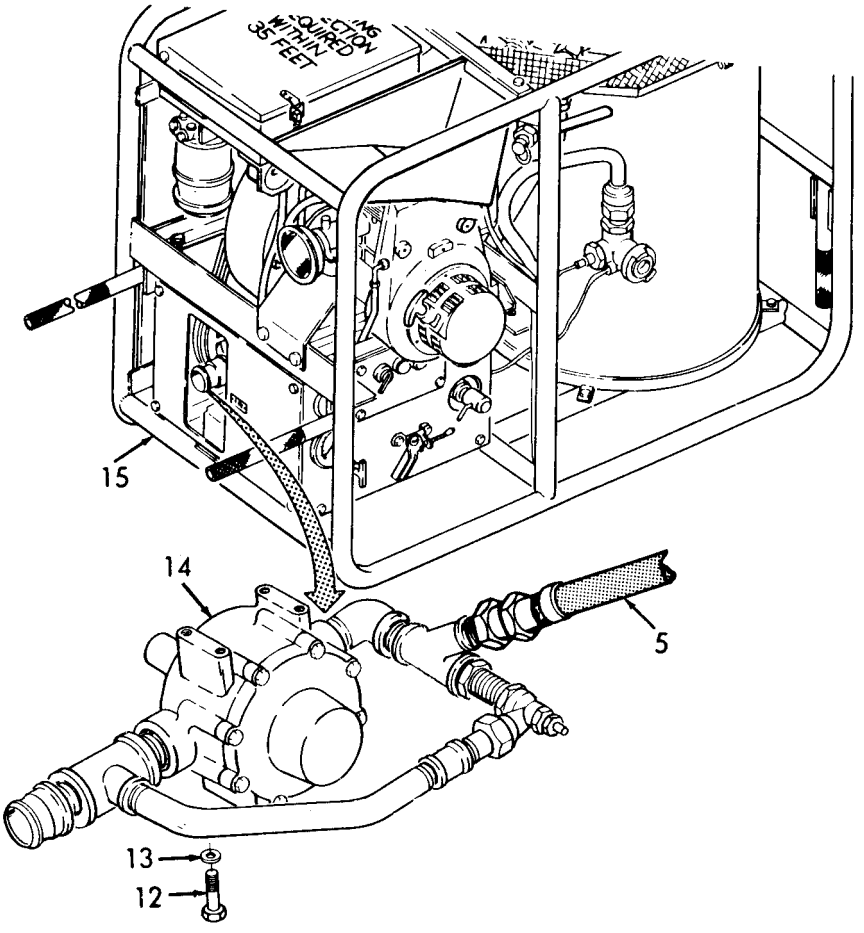


Drive Pulley, Removal.

(g) Remove four mounting bolts (12) and four washers (13) that secure water inlet assembly (14) to frame (15).

(h) Carefully remove water inlet assembly (14).

(i) Disconnect hose (5) from inlet assembly (14).



Water Inlet Assembly, Removal.

(2) Inspection.

(a) Inspect all hardware for stripped threads. Replace if damaged.

(b) Inspect the water inlet assembly (14) for cracks, leaks, frozen shaft, stripped threads, deformed mounting holes, and rust/corrosion. Replace if defective.

2-5. DECONTAMINATING APPARATUS - Continued.

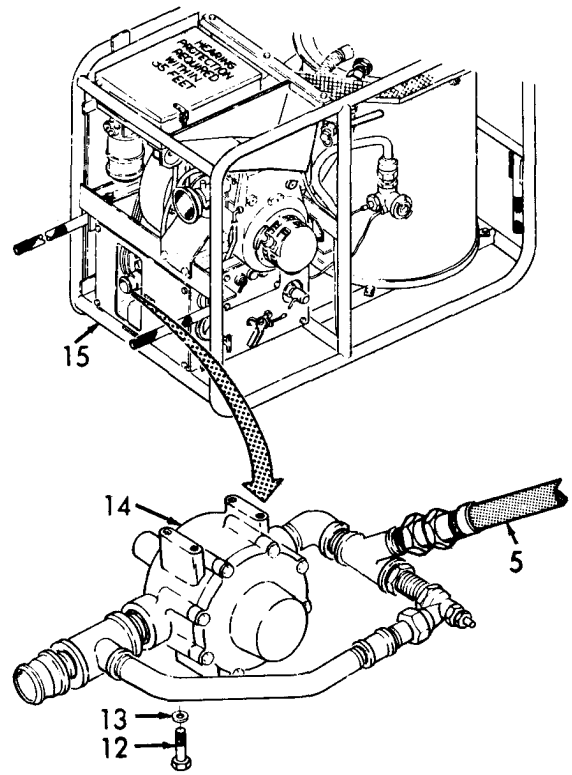
a. Water Inlet Assembly - Continued.

(3) Installation.

(a) Apply locking compound (item 2, Appendix C) to hose. Install hose (5) to pump.

(b) Position water inlet assembly (14) in position on frame (15).

(c) Install four washers (13) and four bolts (12). Handtighten bolts (12).

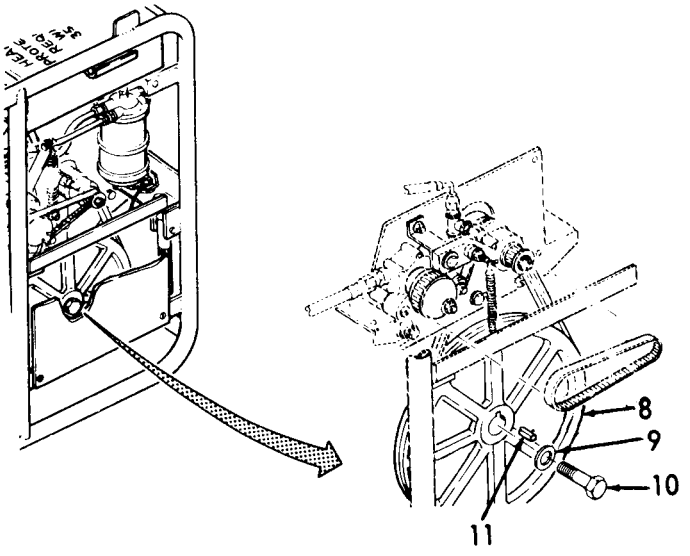


Water Inlet Assembly, Installation.

(d) Install key (11).

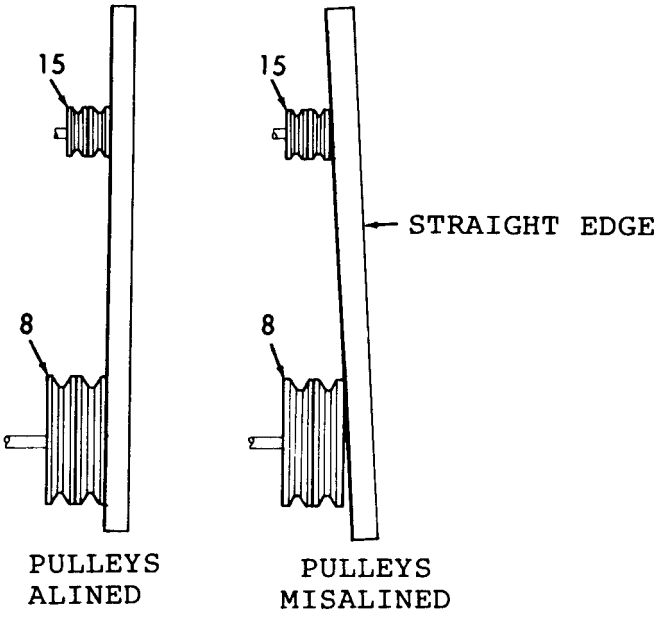
(e) Install drive pulley (8).

(f) Install bolt (10) and washer (9).



Pulley, Installation.

(g) Place a straight edge against face of drive pulley (8) and engine drive pulley (15) as shown. Adjust position of water inlet assembly (14) so that drive pulley (8) and engine drive pulley (15) are alined. Correct alinement is obtained when the faces of both pulleys are flush against the straight edge. Tighten four bolts (12).



2-5. DECONTAMINATING APPARATUS - Continued.

a. Water Inlet Assembly - Continued.

(4) Installation - Continued.

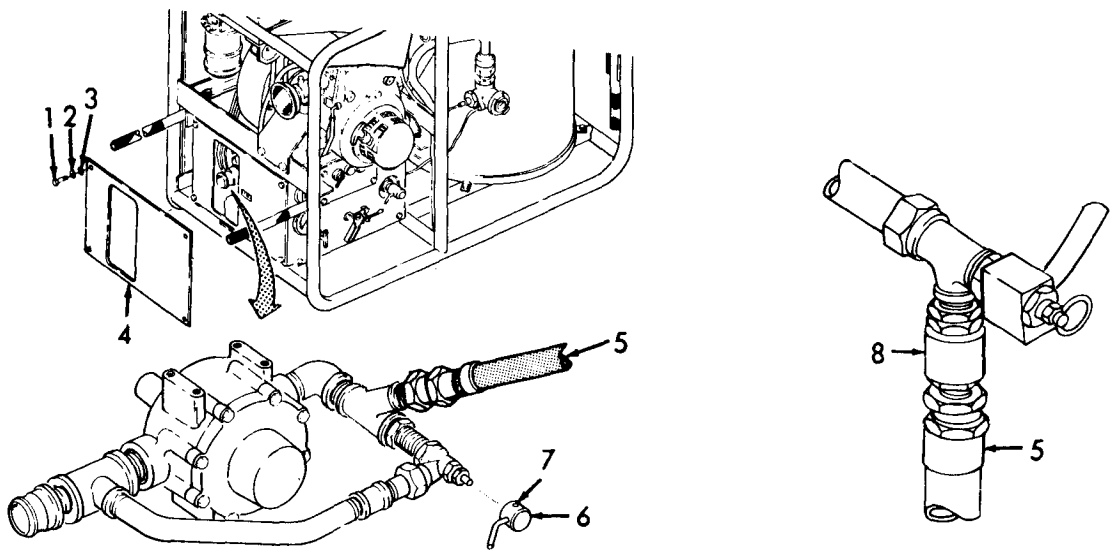
(h) Install WATER PRESS REGULATOR handle (6) into position and secure with two setscrews (7).

(i) Connect hose (5) to water inlet check valve (8).

(j) Position inlet panel (4) and secure with four washers (3), four lockwashers (2), and four screws (1).

(k) Install and adjust drive belts (TM 3-4230-218-12&P). Make sure belts do not rub on unit.

(l) Install burner fuel pump belt (TM 3-4230-218-12&P).



Water Inlet Assembly Piping, Installation.

b. Water Pump and Fuel Pump Belt Tensioner.

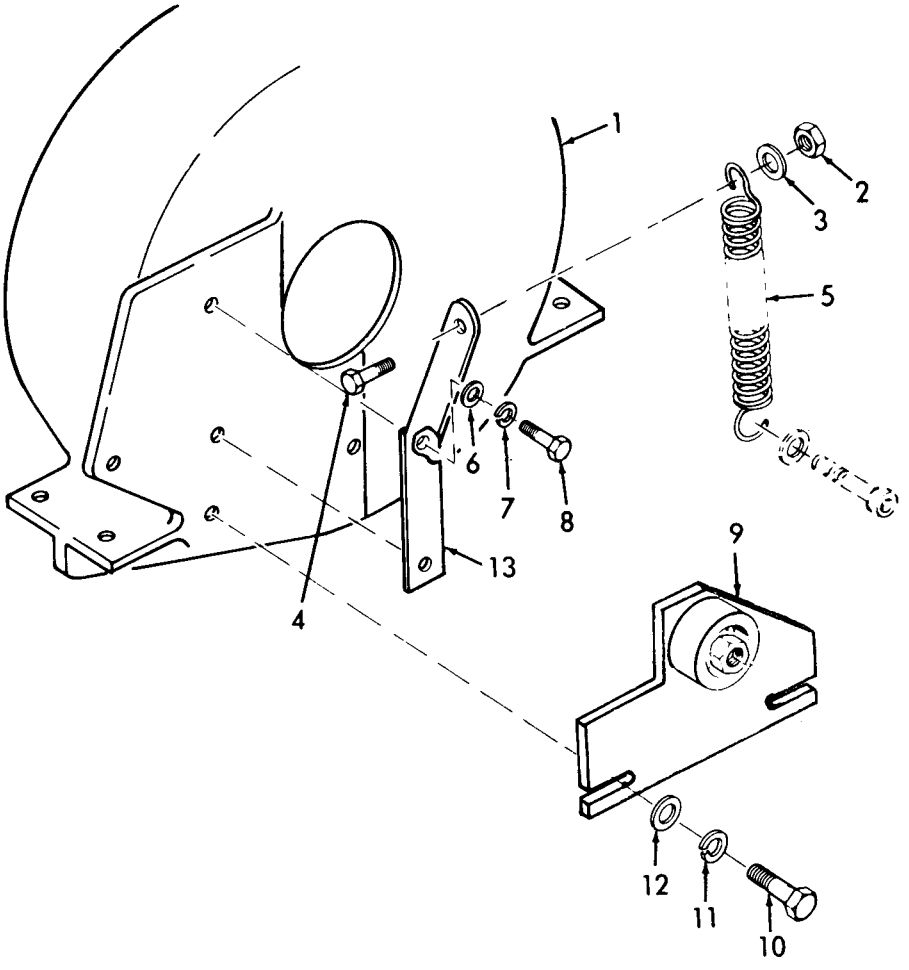
(1) Removal.

(a) Remove nut (2), bolt (4), washer (3), and spring (5) from bracket (13).

(b) Remove two bolts (8), two lockwashers (7), and two washers (6).

(c) Remove bracket (13) from fan housing (1).

(d) Remove two bolts (10), two lockwashers (11), two washers (12), and tensioner bracket (9).



Belt Tensioner, Removal.

(2) Cleaning.

WARNING

The cleaning solvent used emits strong vapors and is flammable. To avoid illness or fire, use in a well-ventilated area and away from open flames. DO NOT breathe vapors for a prolonged time.

(a) Wash all parts of the belt tensioner (except bearings) in cleaning solvent (item 5, Appendix C) using a varnish brush (item 1, Appendix C).

(b) Allow to dry.

2-5. DECONTAMINATING APPARATUS - Continued.

b. Water Pump and Fuel Pump Belt Tensioner - Continued.

(3) Inspection.

(a) Inspect all hardware for stripped threads. Replace stripped hardware.

(b) Inspect spring for stretched or broken coils. Replace stretched or broken springs.

(c) Inspect mounting bracket for cracks, deformed mounting holes, bent spindle, stripped threads, and rust/corrosion.

(d) Inspect bearing for binding. Replace if bearings bind.

(4) Installation.

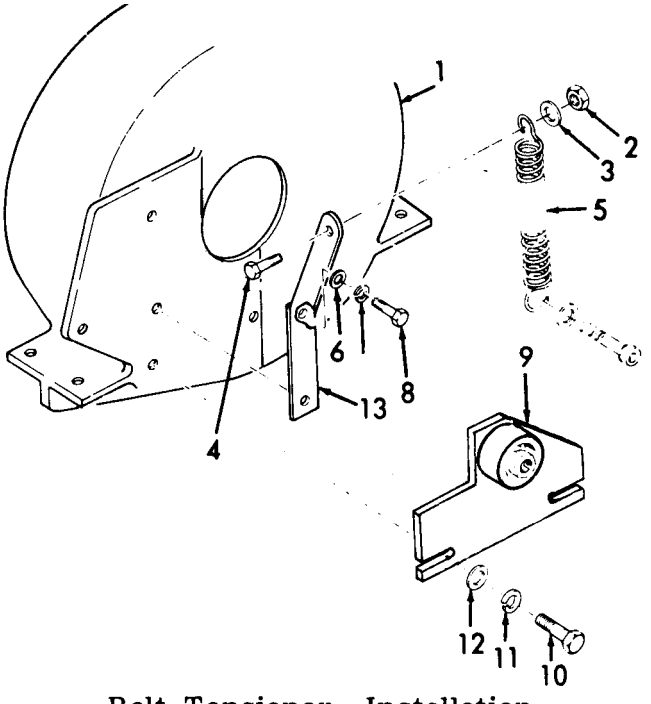
(a) Install tensioner bracket (9), two washers (12), two lockwashers (11), and two bolts (10).

(b) Install bracket (13) to fan shroud (1) and secure with two washers (6), two lockwashers (7), and two bolts (8).

(c) Install spring (5), washer (3), bolt (4), and nut (2) to bracket (13).

(d) Install burner fuel pump belt.

(e) Install and adjust drive belts (TM 3-4230-218-12&P).



Belt Tensioner, Installation.

2-6. GASOLINE ENGINE AND FAN ASSEMBLY

This task consists of:

a. Adjust
b. Repair

INITIAL SETUP:

Tools Required:

Tool Kit from Accessory Box
Socket Set Metric
Socket Adapter

Materials Required:

Brush, Varnish (item 1, Appendix C).
Cleaning Solvent (item 5, Appendix C).

Equipment Conditions:

Engine shutdown and cool.
Fuel pump and water pump drive belts removed (TM 3-4230-218-12&P).
Engine fuel pump, shim and bracket removed from fan housing (TM 3-4230-218-12&P).
Engine fuel lines from carburetor to engine fuel pump removed (TM 3-4230-218-12&P).
Engine spark plug removed (TM 3-4230-218-12&P).
Photocell cooling line removed from engine (TM 3-4230-218-12&P).

2-6. GASOLINE ENGINE AND FAN ASSEMBLY - Continued.

a. Removal.

(1) Loosen clamp (28) and disconnect flex hose (29) from muffler (30).

(2) Remove two nuts (27) and two lockwashers (26). Pull muffler (30) and gasket (31) from engine (9) exhaust port.

(3) Remove four bolts (22), four lockwashers (23), four washers (21), and inlet cover (24).

(4) Remove two bolts (4), two lockwashers (3), two washers (2), and drain plate (1).

(5) Remove four screws (17), four lockwashers (18), four washers (19) and allow flange (20) to hang free.

(6) Remove four nuts (16), four washers (15), ground strap (14), and four screws (13) from engine mount (10).

(7) Remove four bolts (5), four lockwashers (7), and four washers (8) from front panel (5).

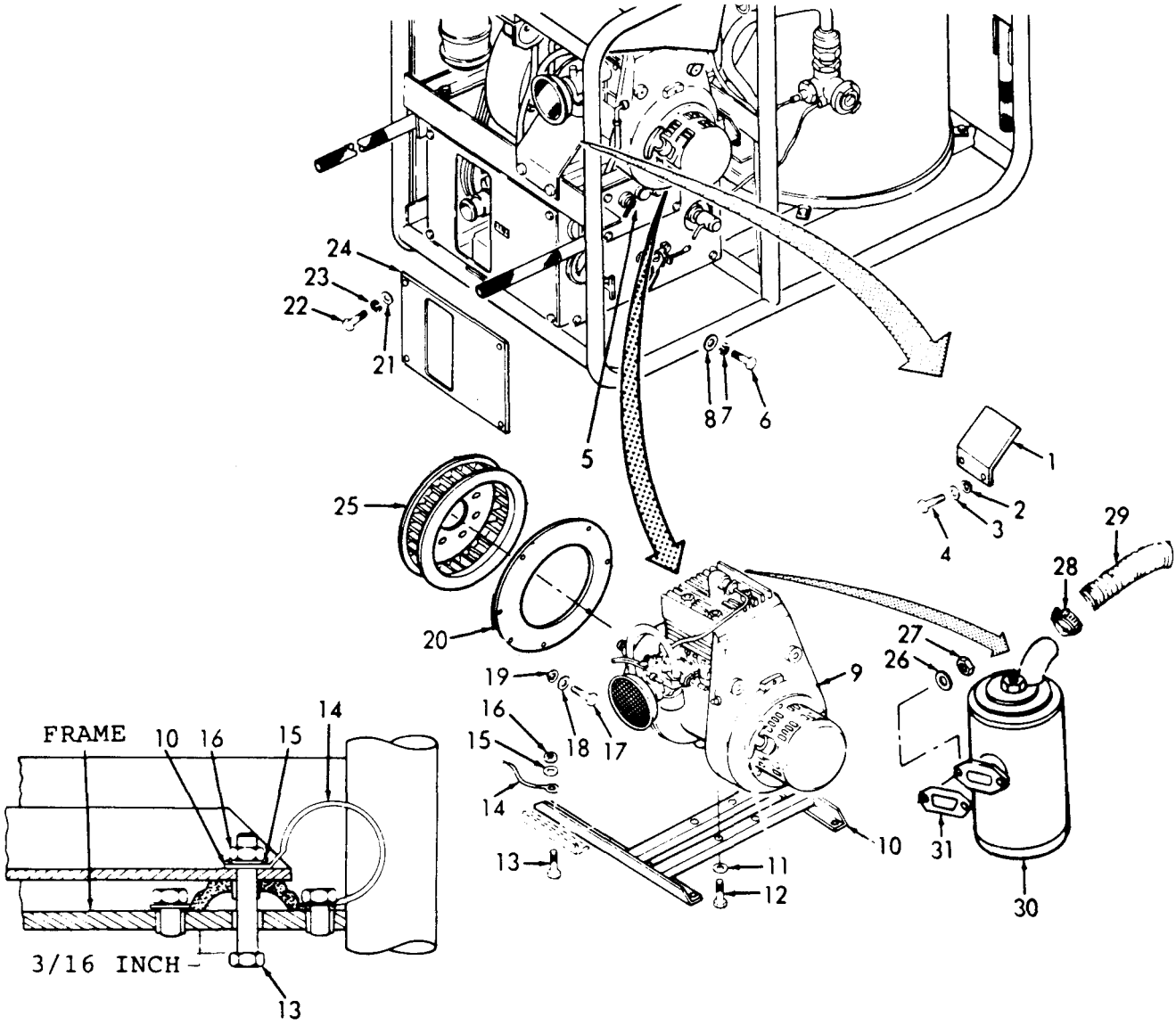
(8) Carefully lower front panel (5) to gain access to internal terminal strip.

(9) On the terminal strip, remove the white wire that has a green tracer from terminal 12. Remove the yellow wire from terminal 6. Carefully remove the wires from the back of the control module box. Do not remove other wires.

(10) Slide the engine (9) and fan assembly (25) (refer to page 2-26) and engine mount (10) out of the unit. Remove fan assembly (25) (page 2-26).

(11) Remove four socket head screws (12) and four washers (11).

(12) Remove engine mount (10) from engine (9).



Gasoline Engine and Fan Assembly, Removal.

b. Cleaning.

WARNING

The cleaning solvent used emits strong vapors and is flammable. To avoid illness or fire, use in a well-ventilated area and away from open flames. DO NOT breathe vapors for a prolonged time.

(1) Wash all parts of engine exterior and mounting brackets (including hardware) in cleaning solvent (item 5, Appendix C) using a varnish brush (item 1, Appendix C).

(2) Allow to dry.

2-6. GASOLINE ENGINE AND FAN ASSEMBLY - Continued.

c. Inspection.

(1) Inspect all hardware for stripped threads. Discard if defective.

(2) Inspect all mounting brackets for cracks, dents, elongated holes, rust, and corrosion. Replace if defective.

(3) Inspect the exterior of the engine for dents, cracks, or missing components. Repair if defective.

d. Installation.

(1) Position engine (9) on engine mount (10) and secure with four washers (11) and four socket head screws (12). Install fan assembly (25) (page 2-27) on engine.

(2) Slide the engine (9) and engine mount (10) into position on unit. Thread engine power leads through control module box.

(3) Connect the yellow wire to terminal 6 and white wire with green tracer to terminal 12 in front panel (5) (refer to page 2-61).

(4) Carefully slide the front panel (5) into position and secure with four lockwashers (8), four washers (7), and four screws (6).

(5) Install four socket head screws (13), ground strap (14), four washers (15) and four nuts (16) to secure engine mount (10) to unit. Adjust engine mount bolt (13) to maintain clearance as shown.

(6) Install flange (20) into position and secure with four washers (19), four lockwashers (18), and four screws (17).

(7) Hold drain bracket (1) in position and secure with two washers (2), four lockwashers (3), and four screws (4).

(8) Hold inlet cover (24) into position and secure with four washers (21), four lockwashers (23), and four bolts (22).

NOTE

Clamp does not secure hose to muffler outlet - it positions flex hose on muffler outlet. Hose should fit loosely on muffler outlet and rest on clamp.

(5) Position new gasket (31) on engine (9) exhaust port. Position muffler (30) on engine (9). Slide flex hose (29) over muffler (30) and heat exchanger neck (32). Install two lockwashers (26) and two nuts (27).

(10) Use clamp (28) to position flex hose on muffler outlet.

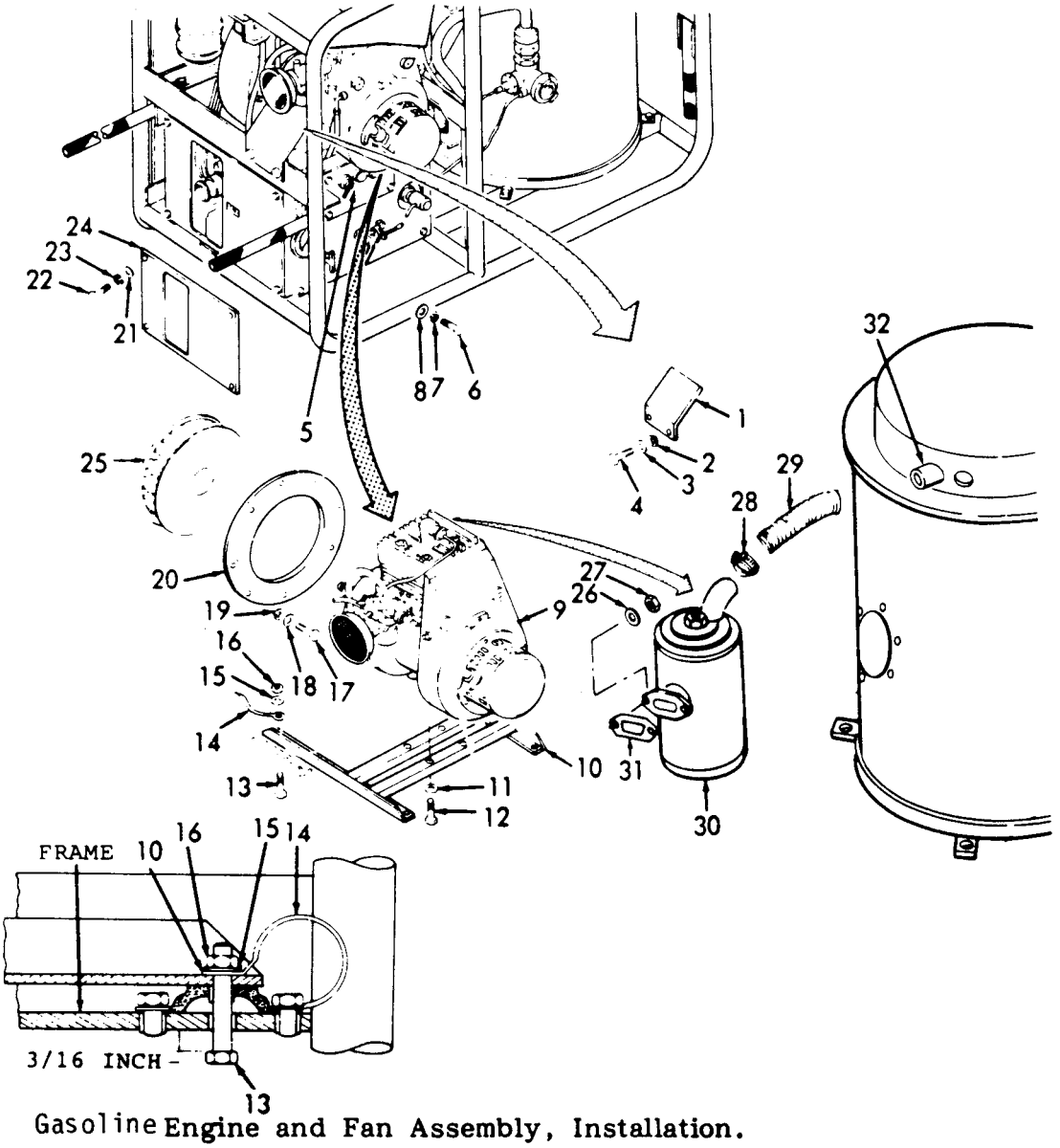
(11) Install engine fuel pump (TM 3-4230-218-12&P).

(12) Install and adjust fuel and water pump drive belts (TM 3-4230-218-12&P).

(13) Install engine fuel lines to carburetor (TM 3-4230-218-12&P).

(14) Install photocell cooling line (TM 3-4230-218-12&P).

(15) Install spark plug (TM 3-4230-218-12&P).



Gasoline Engine and Fan Assembly, Installation.

2-7. CENTRIFUGAL FAN.

This task consists of:

a. Replace b. Repair

INITIAL SETUP:

Tools Required:
Tool Kit from Accessory Box
Tool Kit, General Mechanics
Flywheel Puller and Extender Nuts
Extractor Fan
Torque Wrench
Socket Set, Metric
Socket Adapter

Materials Required:
Brush, Varnish (item 1, Appendix C).
Cleaning Solvent (item 5, Appendix C).

Equipment Conditions:
Engine shutdown and cool.
Engine and fan assembly removed (page 2-22).

a. Removal.

(1) Remove nut (10), washer (11), loosen set screws and remove belt drive (13).

(2) Remove three screws (15) and drive assembly (14).

(3) Remove nut (8) and flat washer (7).

(4) Use fan extractor, remove the impeller (fan assembly) from the clutch shaft (1).

(5) Remove key (9) and flange (2).

(6) Remove eight nuts (4), eight screws (6), and hub (5) from impeller (3).

b. Cleaning.

WARNING

The cleaning solvent used emits strong vapors and is flammable. To avoid illness or fire, use in a well-ventilated area and away from open flames. DO NOT breathe vapors for a prolonged time.

(1) Wash fan and hardware in cleaning solvent (item 5, Appendix C) using a varnish brush (item 1, Appendix C).

(2) Allow to dry.

c. Inspection.

(1) Inspect all hardware for stripped threads. Replace if defective.

(2) Inspect fan for bent blades, cracks, dents, rust, and corrosion. Replace if defective.

(3) Inspect flange for dents, cracks, elongated holes, rust, and corrosion. Replace if defective.

d. Installation.

(1) Place flange (2) with lip facing away from engine, into position over clutch shaft (1).

(2) Install eight screws (6), eight nuts (4), and hub (5) onto impeller (3).

(3) Install key (9) and impellor (fan assembly) onto clutch shaft (1).

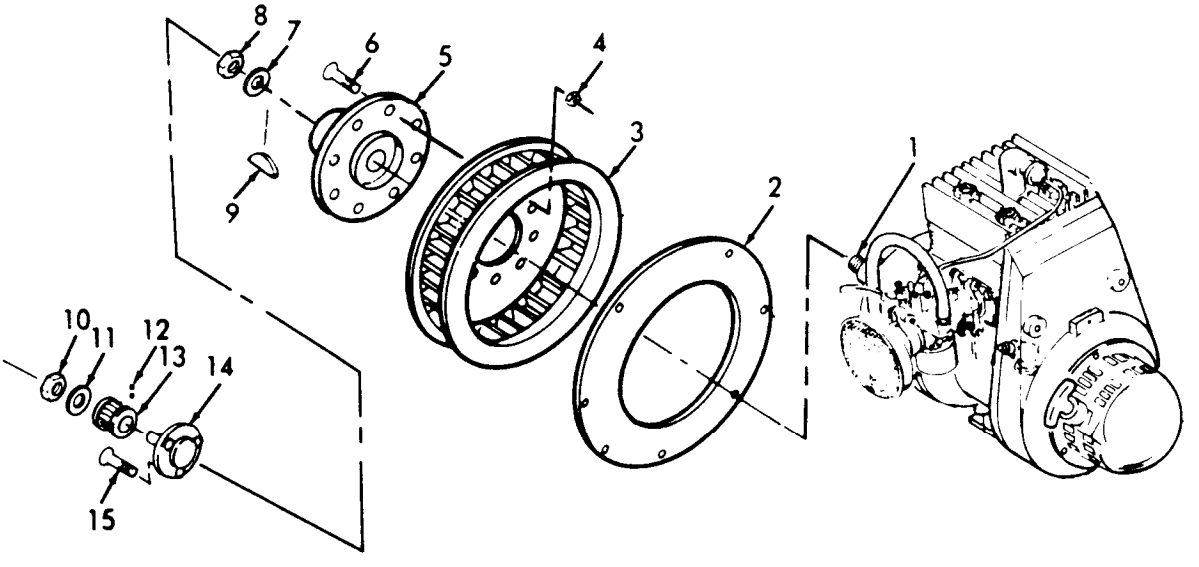
(4) Install washer (7) and nut (8). Torque nut to 32.5 lb-ft.

(5) Install drive assembly (14) and secure with three screws (15).

(6) Install belt drive (13), washer (11), and nut (10).

(7) Tighten set screws (12) on belt drive (13).

(8) Install engine and fan assembly (page 2-24).



Centrifugal Fan, Removal/Installation.

2-8. GASOLINE ENGINE ASSEMBLY.

This task consists of:

a. Replace b. Repair

INITIAL SETUP:

Tools Required:

- Tool Kit, General Mechanics
- Crankshaft Retainer (Appendix D)
- Flywheel Puller and Extender Nuts
- Timing Dial Indicator
- Piston Retainer Tool (Appendix D)
- Wrist Pin Tool (Appendix D)
- Torque Wrench
- Socket Set, Metric
- Clutch Puller
- Metric Crowfoot Socket Adapter

Materials Required:

- Brush, Varnish (item 1, Appendix C).
- Cleaning Solvent (item 5, Appendix C).
- Gasket, Carrier (P/N 102-41-729-000).
- Grease, Bearing (item 3, Appendix C).
- Compound, Locking (item 2, Appendix C).
- Cloth, Abrasive (item 7, Appendix C).

Equipment Conditions:

- Engine and fan assembly removed and disassembled (page 2-22).
- Starter removed (TM 3-4230-218-12&P).
- Carburetor removed (page 2-40).

a. Generator/Ignition System.

(1) Removal.

(a) Remove six bolts (1), six lockwashers (2), and fan cover (17).

(b) Screw 13mm bolt into center of cover to help remove it.

(c) Remove ring (16), three nuts (15), three washers (14), carrier (13), and gasket (12). Install crankshaft retainer (Figure D-1) on fan housing (9) and secure with extender nuts (15).

(d) Remove nut (11) and lockwasher (10).

NOTE

Fan housing has two keyways. Mark the keyway in which the key is installed.

(e) Install flywheel puller on fan (9) with extender nuts and bolts provided. Remove fan (9) and flywheel (8) as a unit. Remove key (18). Remove three bolts (6) and washers (7). Separate fan (9) from flywheel (8).

(f) Remove screws (5), washers (4), and cover (3). Remove nut (26), washer (25), and three leads from capacitor (23). Remove capacitor (23).

(g) Remove screw (30), washer (31), and contact set (35) from mount plate (39).

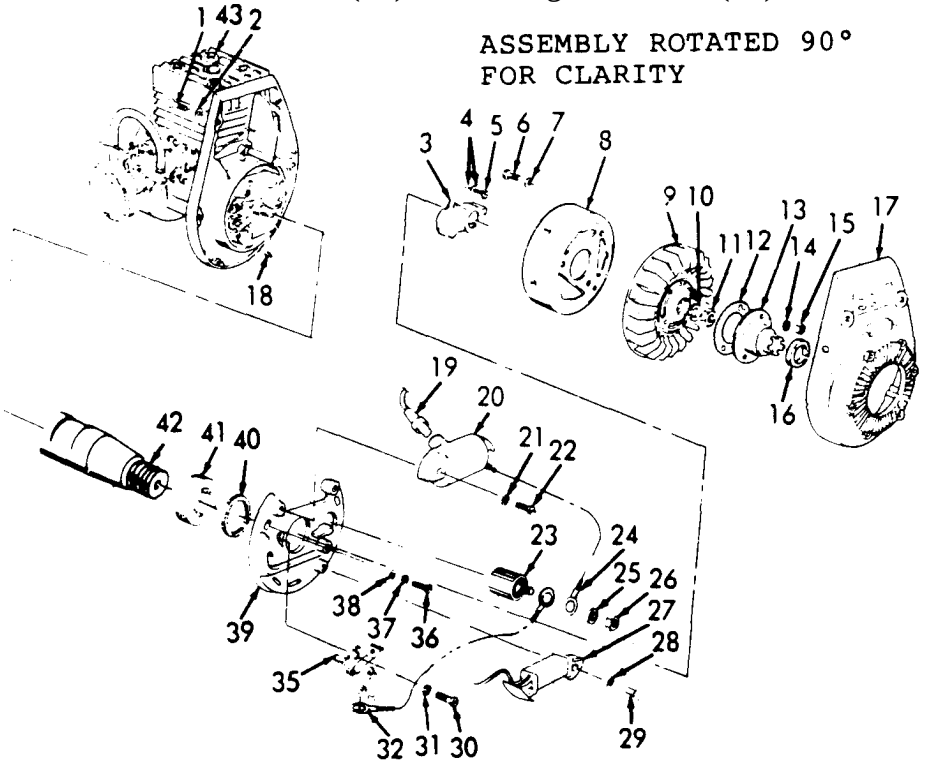
(h) Remove two screws (29), two washers (28), and coil (27) from mount plate (39). Pull coil from mount plate and tag and disconnect coil lead.

(i) Remove two screws (22), two washers (21), and coil (20). Unscrew spark plug lead (19) from coil (20).

NOTE

Removal of mounting plate (39) will necessitate re-timing of engine ignition.

(j) Remove two screws (36), two lockwashers (37), two washers (38), and mount plate (39). Remove ring (40) and felt washer (41) from engine shaft (42).



Generator/Ignition System, Removal.

2-8. GASOLINE ENGINE ASSEMBLY - Continued.

a. Generator/ Ignition System - Continued.

(2) Cleaning.

WARNING

The cleaning solvent used emits strong vapors and is flammable. To avoid illness or fire, use in a well-ventilated area and away from open flames. DO NOT breathe vapors for a prolonged time.

(a) Clean all parts except coils, points, and capacitor (condenser) with cleaning solvent (item 5, Appendix C) using a varnish brush (item 1, Appendix C).

(b) Allow to dry.

(3) Inspection.

(a) Inspect all hardware for stripped threads. Replace if stripped.

(b) Inspect all electrical parts for cracks, breaks, signs of burning. Replace if defective.

(c) Inspect fan for broken, chipped or missing blades.

(d) Inspect flywheel for cracks.

(e) Inspect contact set for corroded contacts.

(4) Installation.

(a) Install felt washer (41) and ring (40) on engine shaft (42). Install mount plate (39), two washers (38), two lockwashers (37), and two screws (36). Do not tighten screws.

(b) Screw spark plug lead (19) into coil. Install coil (20), two washers (21), and two screws (22).

(c) Connect coil (27) wiring per tagged identification. Install coil (27), two washers (28), and two screws (29) on mounting plate.

(d) Install contact set on mount plate (39) with washer (31), and screw (30).

(e) Place capacitor (23) into place on armature plate. Place a socket the same outside diameter as the capacitor over the capacitor and gently tap capacitor into armature plate by tapping on socket. Connect three leads to condenser with washer (25) and nut (26).

(5) Ignition Point Adjustment.

(a) Install flywheel nut on engine shaft to facilitate rotating crankshaft.

(b) Turn crankshaft until contact set points are open to widest gap

(c) Loosen screw (30) and using a feeler gage, adjust contact set points (35) to 0.012 to 0.015 inch (0.30mm to 0.40mm). Tighten screw (30).

(6) Ignition Timing.

NOTE

NEVER reverse direction of crankshaft rotation while timing engine as bearing clearance will result in inaccurate measurement.

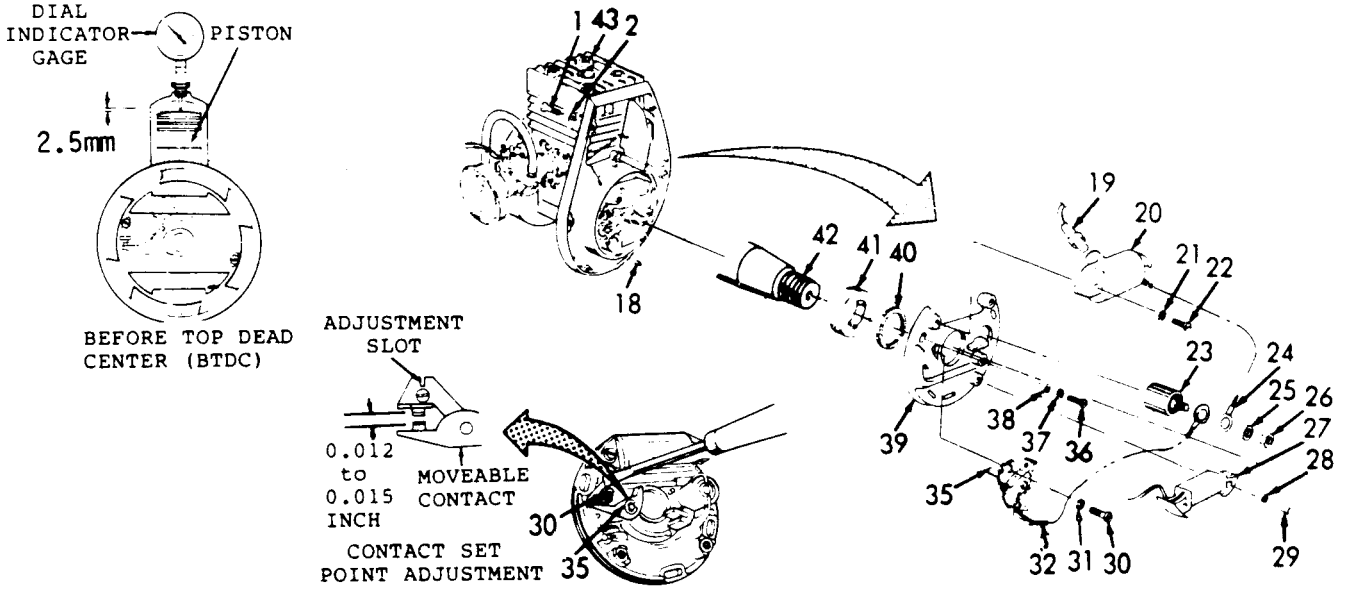
(a) Install timing gage in spark plug hole (43).

(b) Position piston in TDC position by rotating crankshaft clockwise until dial on gage just begins to change direction.

(c) Position the gage (in or out) of the gage holder so that a reading of 4. 0 mm is achieved and the gage needle is at approximately 12 o'clock.

(d) If outer gage does not read "0" zero turn outer face to achieve "0" zero reading.

(e) Check TDC position by rotating crankshaft clockwise. Gage should now read 4.0mm at TDC position.



Generator/Ignition System, Installation.

2-8. GASOLINE ENGINE ASSEMBLY - Continued.

a. Generator/ Ignition System - Continued.

(4) Installation - Continued.

(e) Rotate crankshaft clockwise about 3/4 turn. Slowly continue rotating crankshaft until a reading of 1.5mm is obtained on the gage. At this reading, the piston is 2.5mm before TDC. (4.0mm - 1.5mm = 2.5mm).

(f) Using a multimeter set on resistance scale R x 1, attach one test lead to engine ground and other lead to moving member of contact set.

NOTE

The lead (32) on the ignition point moveable contact must not be attached to the capacitor while setting timing. Use multimeter to determine the instant ignition points open.

(g) Rotate plate (39) until points are closed and multimeter resistance reading is zero.

(h) Slowly rotate plate (39) in opposite direction stopping when multimeter reading indicates infinite resistance (other side of multimeter scale).

(i) Tighten two screws (36). Ignition timing is now complete. Reconnect lead (32) to capacitor (23).

(j) Remove nut (11) and dial indicator gage, install cover (3), washers (4), and screws (5).

(k) Install flywheel (8) on fan housing (9) and secure with three washers (7) and three screws (6).

(l) Install key (18) on engine shaft. Position fan (9) on marked keyway and install lockwasher (10), and nut (11).

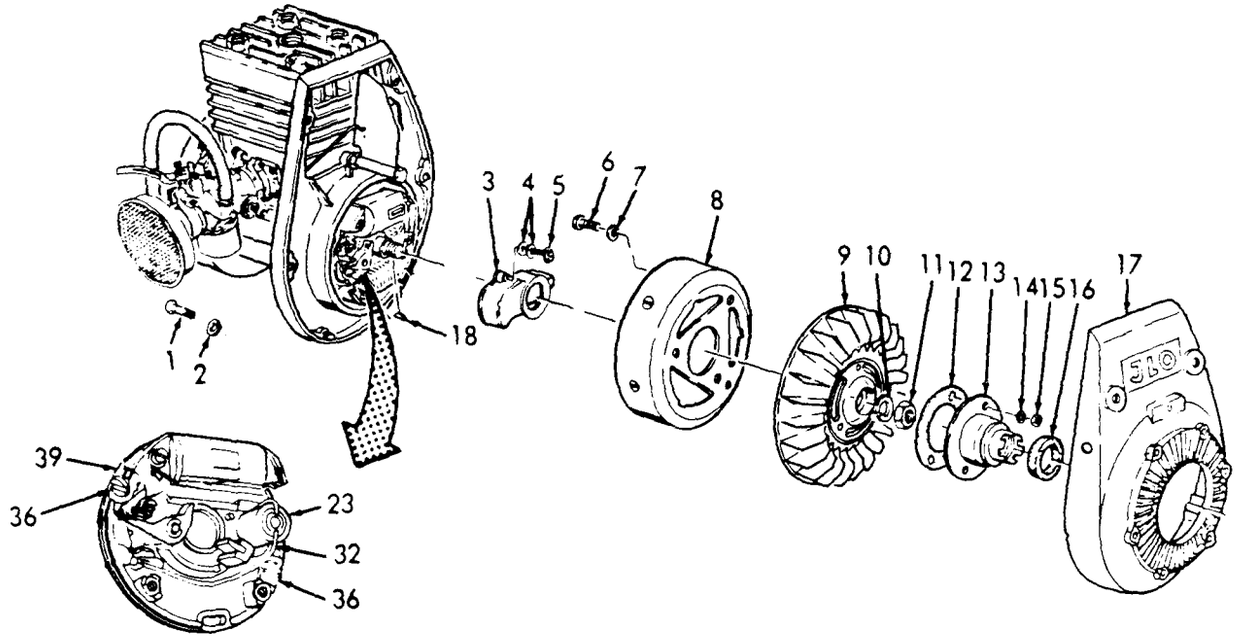
(m) Using crankshaft retaining tool torque nut (11) to 32.5 lb-ft. Remove crankshaft retaining tool.

(n) Install gasket (12), carrier (13), three washers (14), three nuts (15), and ring (16), cover (17), six lockwashers (2), and six bolts (1). Be sure air vane is free.

(o) Assemble and install engine and fan assembly (page 2-24).

(p) Install starter (TM 3-4230-218-12&P).

(q) Install carburetor (page 2-42).



Generator/Ignition System, Installation.

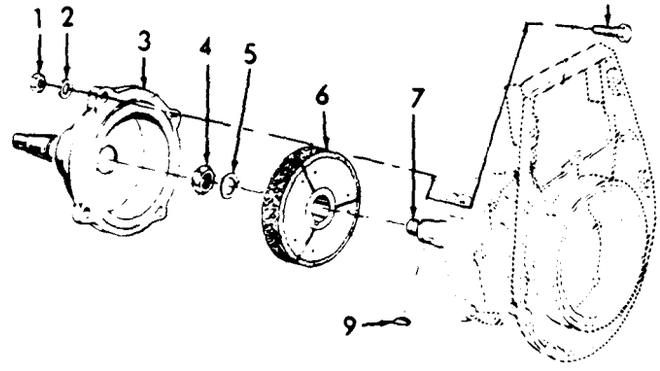
b. Clutch Assembly.

(1) Removal.

(a) Remove four nuts (1), four lockwashers (2), and four bolts (8). Tap edges of housing (3) to loosen seal. Once seal is broken, twist clutch assembly (3) back and forth to remove from engine.

(b) Remove engine fan cover and starter carrier (page 2-28). Install crankshaft retainer (figure D-1, Appendix D) on three screws extending from engine fan. Secure with three nuts.

(c) Remove nut (4), and lockwasher (5). Use clutch puller and extender nut bolts to remove clutch (6) and key (9) from crankshaft (7).



Clutch Assembly, Removal.

2-8. GASOLINE ENGINE ASSEMBLY - Continued.

b. Clutch Assembly - Continued.

(2) Inspection.

(a) Inspect the hardware for stripped threads. Replace if defective.

(b) Inspect inner surface of clutch drum for cracks, scoring, and chipped surfaces. Replace drum if any play exists or bearing roughness is noted.

(c) Inspect housing for cracks, elongated holes, and for damaged finish. Replace housing if defective.

(d) Inspect clutch for worn friction surface or irregularities.

(3) Repair.

Repair is limited to the replacement of damaged components.

(4) Installation.

(a) Install key (9) and clutch (6) on crankshaft (7).

(b) Install lockwasher (5) and nut (4). Torque nut (4) to 32.5 lb-ft (390 lb-in).

(c) Remove crankshaft retainer from engine fan.

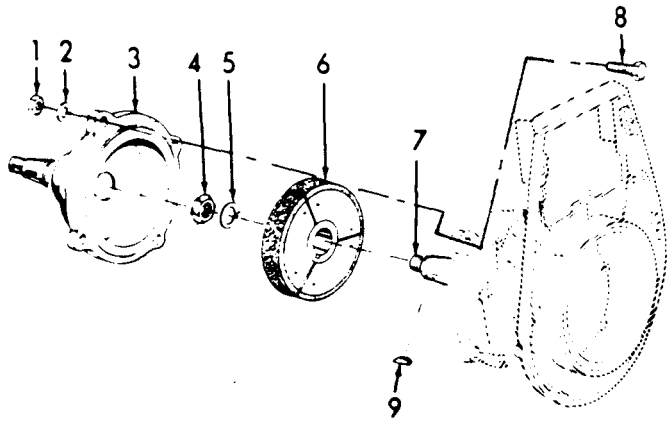
(d) Install starter carrier and engine fan cover (page 2-27).

(e) Install a bead of locking compound (item 2, Appendix C) to the housing (3).

(f) Install housing (3) with indentation facing up, four bolts (4), four lockwashers (2), and four nuts (1).

(g) Install fan assembly onto engine (page 2-27).

(h) Install engine and fan assembly (page 2-24).



Clutch Assembly, Installation.

c. Cylinder Assembly.

(1) Removal.

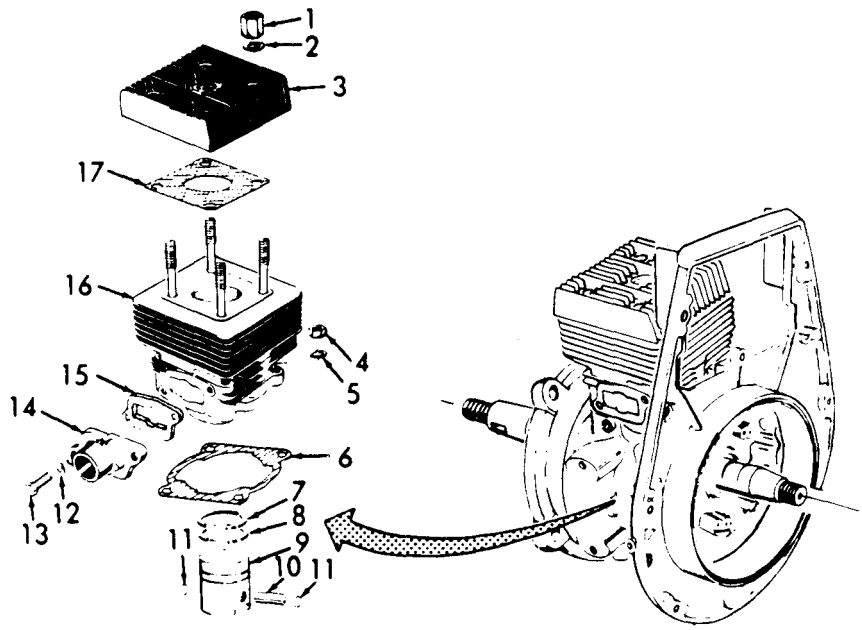
(a) Remove carburetor (page 2-40).

(b) Remove two screws (13), two lockwashers (12), pipe (intake manifold) (14), and gasket (15). Discard gasket (15).

NOTE

Mark position of cylinder head and cylinder prior to removal.

(c) Remove four nuts (1), four lockwashers (2), cylinder head (3), and cylinder head gasket (17). Discard cylinder head gasket (17).



Cylinder, Disassembly.

2-8. GASOLINE ENGINE ASSEMBLY - Continued.

c. Cylinder Assembly - Continued.

(1) Removal - Continued.

(d) Remove four nuts (4), four lockwashers (5), cylinder (16), and gasket (6). Discard gasket (6).

(e) Install piston retainer tool (Appendix D) between piston (9) and crankcase.

(f) Remove two circlips (11).

NOTE

Mark position of piston in reference to cylinder.

(g) Using wrist pin removal tool (Appendix D), remove wrist pin (10) and piston (9). Remove bearing (19).

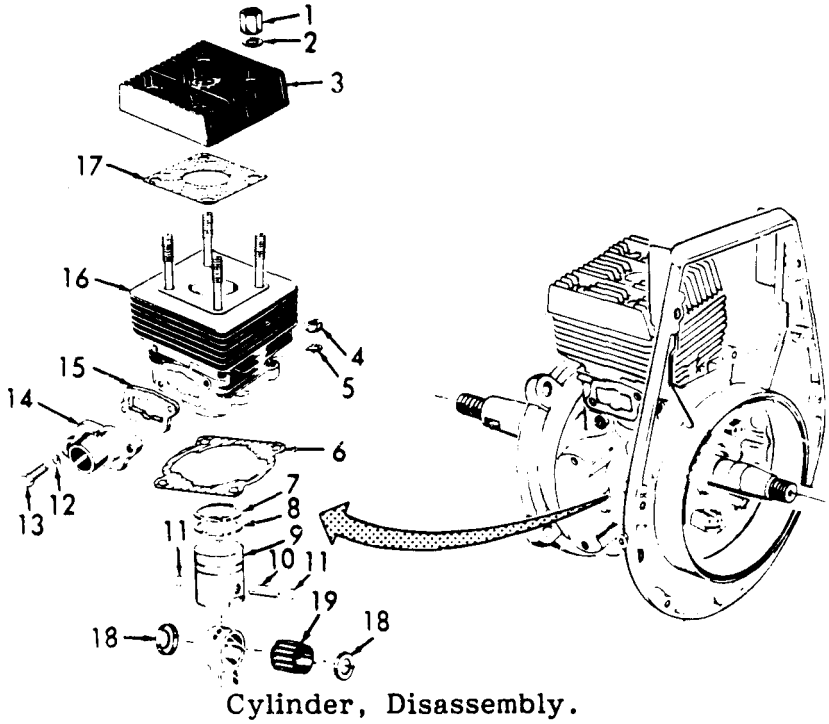
CAUTION

Be careful that plates (18) do not fall into engine housing when removing piston.

NOTE

Remove piston rings (7 and 8) only if damaged.

(h) Remove upper piston ring (7) and lower piston ring (8).



Cylinder, Disassembly.

(2) Cleaning.

(a) Using a varnish brush (item 1, Appendix C) remove as much carbon as possible from the piston, cylinder and cylinder head.

WARNING

The cleaning solvent used emits strong vapors and is flammable. To avoid illness or fire, use in a well-ventilated area and away from open flames. DO NOT breathe vapors for a prolonged time.

(b) Clean all parts with cleaning solvent (item 5, Appendix C) using a varnish brush (item 1, Appendix C).

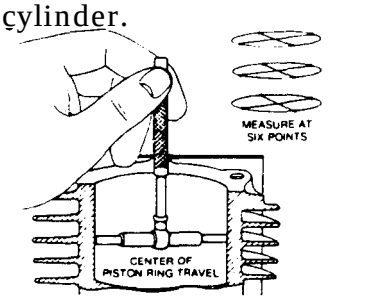
(c) Allow all parts to dry.

(3) Inspection.

(a) Inspect cylinder head for cracks, burrs, nicks, broken fins, flatness, stripped spark plug threads, elongated mounting holes, and corrosion. Discard if defective.

(b) Inspect cylinder for cracks, scoring, broken fins, bent, stripped or broken studs, deformed mounting holes, and stripped pipe (intake manifold) mounting hole threads. Discard cylinder if defective.

(c) Using an inside micrometer or telescoping gage and micrometer, measure cylinder bore diameter in area of piston ring travel (about 1 inch below top of cylinder). If cylinder diameter is greater than 66.019mm (2 .599 in.) replace cylinder.



Checking the Cylinder Bore.

(d) Inspect piston for cracks, broken skirt, deformed wrist pin holes, deformed ring grooves hole, holes. Discard piston if defective.

(e) Inspect wrist pin for scratches, burrs, cracks, and scoring. Discard wrist pin if defective.

(f) Inspect pipe (intake manifold) for cracks, deformed mounting holes, and corrosion. Discard if defective.

2-8. GASOLINE ENGINE ASSEMBLY - Continued.

c. Cylinder Assembly - Continued.

(4) Installation.

(a) Install lower piston ring (8) and beveled upper piston ring. (7). Ensure ends of rings aline with pins in ring grooves.

CAUTION

Be sure that arrow on top of piston is pointing toward exhaust port of engine. Failure to do so will result in damage to engine.

(b) Install circlip (11) in one side of piston.

(c) Coat needle bearing (19) with grease (item 3, Appendix C) and install into connecting rod (20).

(d) Install plates (18) on connecting rod (20).

(e) Place piston (9) into position on connecting rod and insert wrist pin (10) through piston (9).

(f) Install other circlip (11) on piston (9) to secure wrist pin (10).

(g) Apply a bead of locking compound (item 2, Appendix C) to cylinder mating surface on crankcase.

(h) Install cylinder gasket (6) on crankcase.

(i) Apply a bead of locking compound (item 2, Appendix C) to cylinder gasket (6).

(j) Lightly oil the inside of the cylinder (16) with lubricating oil (item 4, Appendix C).

(k) Position cylinder over piston. Manually compress top ring (7) and carefully slide cylinder over pistion. Manually compress bottom ring (8) and carefully slide cylinder into position.

(l) Seat cylinder (16) on crankcase.

(m) Secure cylinder (16) with four lockwashers (5) and four nuts (4). Cross-torque nuts (4) to 16-18 lb-ft (192-216 in-lb).

(n) Lay a sheet of abrasive cloth on a smooth flat surface with the rough side up. Rub the cylinder head (3) mounting surface back and forth on the crocus cloth until the mounting surface is smooth and shiny. Remove all traces of sanding grit from cylinder.

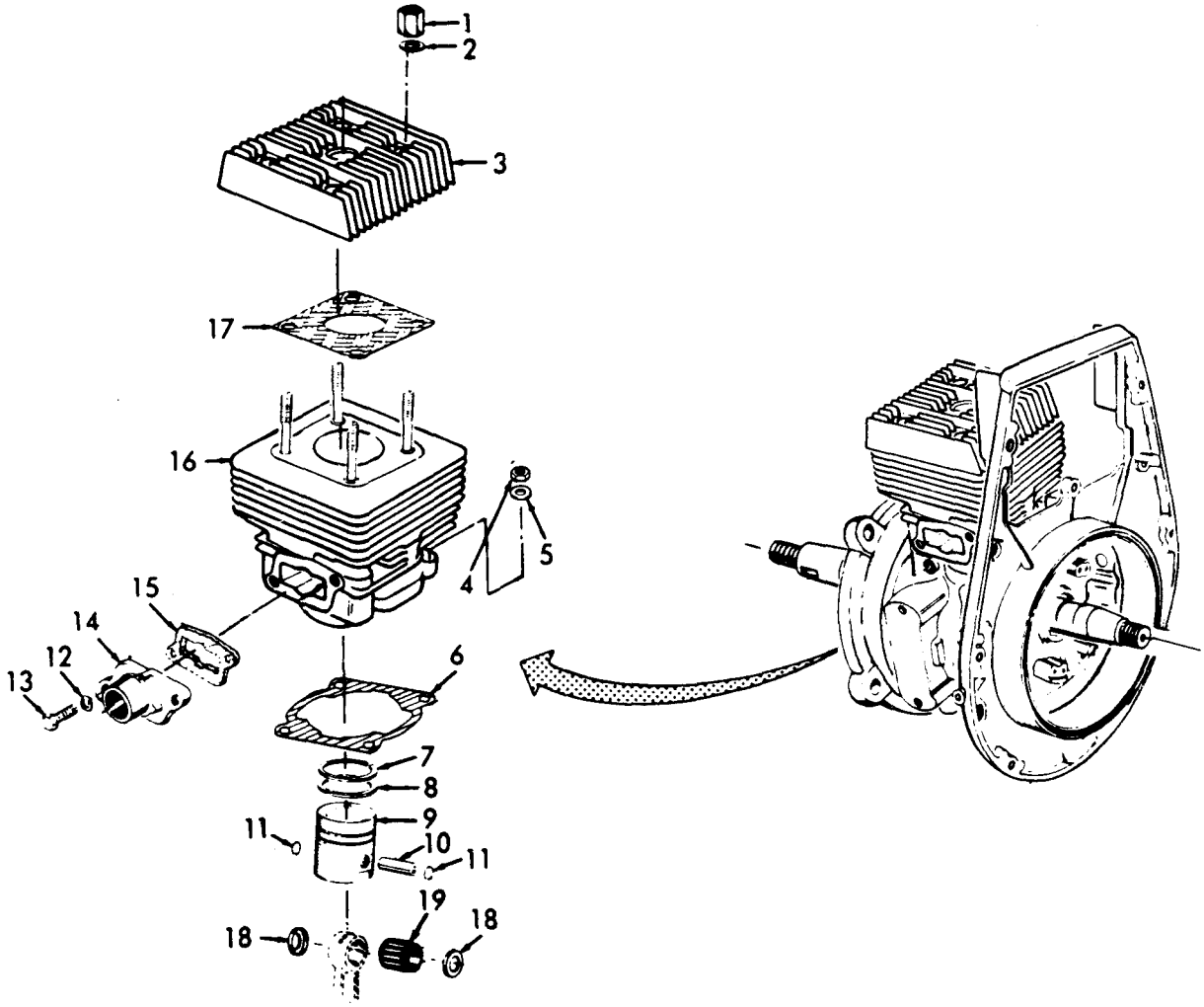
(o) Install cylinder head gasket (17) on cylinder (16) with the wide side of the metal ring up.

(p) Install cylinder head (3) and secure with four lockwashers (2) and four nuts (1). Cross-torque nuts (1) 28-32 lb-ft (336-384 lb-in).

(q) Install manifold gasket (15) pipe (intake manifold) (14), two lockwashers (12) and two screws (13).

(r) Install carburetor (page 2-42).

(s) Install engine and fan assembly (page 2-24).



Cylinder, Assembly.

2-9. CARBURETOR.

This task consists of:

a. Replace b. Repair

INITIAL SETUP:

Tools Required:
Tool Kit, General Mechanics
Socket Set, Metric

Materials Required:
Brush, Varnish (item 1, Appendix C).
Cleaning Solvent (item 5, Appendix C).
Gasket, Bowl (P/N 602-45-087-900).

Equipment Conditions:
Engine shutdown and cool.

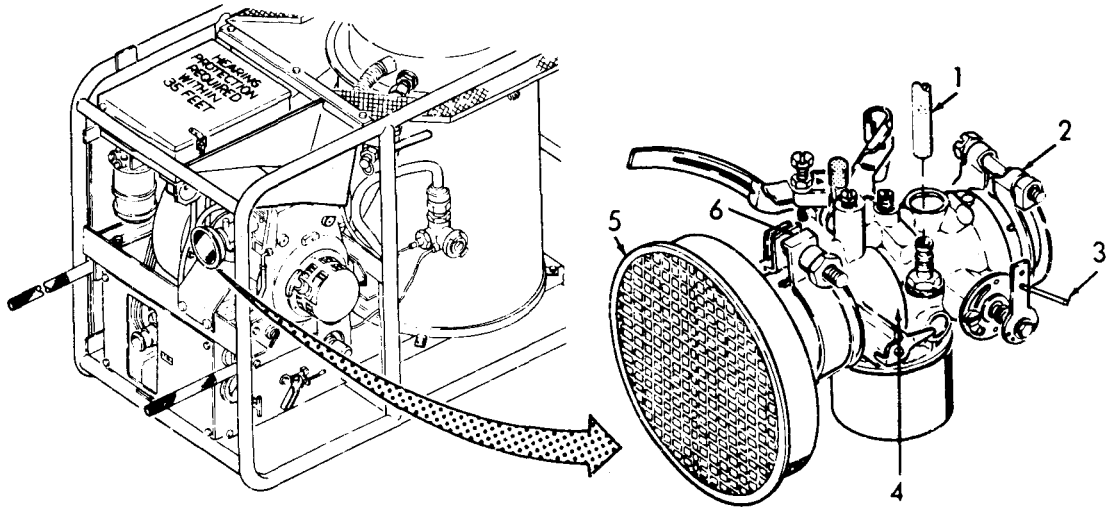
a. Removal.

(1) Remove fuel line (1) from carburetor (4).

(2) Loosen clamp (2) and remove carburetor (4) from engine intake manifold.

(3) Tilt carburetor on side and disconnect linkage (3) from lever. Be sure to note which hole is being used.

(4) Loosen clamp (6) and remove air cleaner (5).



Carburetor, Removal.

b. Disassembly.

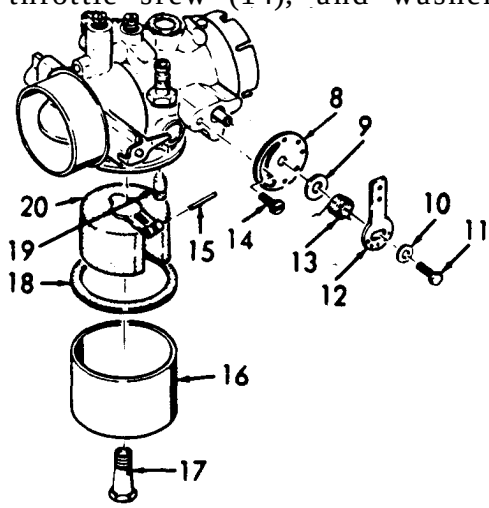
NOTE

Disassemble only to the extent necessary to make repairs.

(1) Remove jet (17), bowl (16), and gasket (18).

(2) Remove tapered pin (15), float (20), and valve (19).

(3) Remove screw (11), washer (10), lever (12), spring (13), washer (9), throttle srew (14), and washer (speed setting disk) (8).



Carburetor, Disassembly.

c. Cleaning.

WARNING

The cleaning solvent used emits strong vapors and is flammable. To avoid illness or fire, use in a well-ventilated-area- and away from open flames. DO NOT breathe vapors for a prolonged time.

(1) Wash all carburetor parts with cleaning solvent (item 5, Appendix C) using a varnish brush (item 1, Appendix C).

(2) Allow to dry.

d. Inspection.

(1) Inspect needle and seat for wear. Replace if worn.

(2) Inspect carburetor body float and bowl for dents and cracks. Replace entire carburetor if body is damaged.

(3) Inspect jets, and adjusting screws for nicks, burrs, or stripped threads. Replace if defective.

(4) Inspect throttle lever and washer (speed setting disk) for cracks, bends, or elongated holes. Replace if defective.

2-9. CARBURETOR - Continued.

e. Assembly.

(1) Install washer (speed setting disk) (8) and screw (14). Install washer (9) and spring (13). The end of the spring should be placed in first hole from the slot on the disk as shown by asterisk.

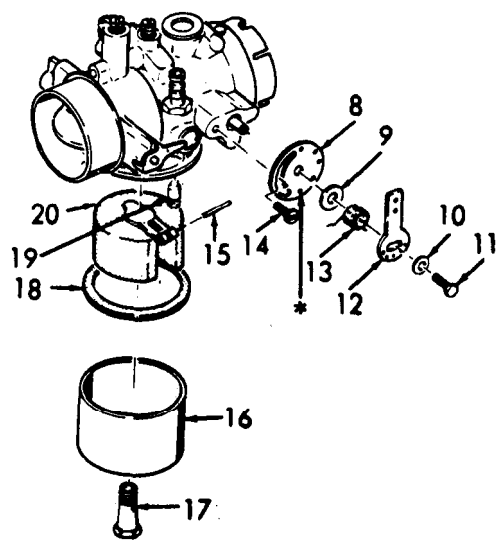
(2) Install lever (12). Insert the end of spring (13) into middle hole of lever (12).

(3) Install washer (10) and screw (11). Do not tighten screw.

(4) Preload the spring by turning lever (12) one full turn and making sure lever is pointed up. Seat lever (12) on throttle shaft and tighten screw (11).

(5) Engage needle valve (19) in slot of float (20) and position onto carburetor body. Secure float with tapered pin (15).

(6) Install bowl (16), jet (17), and gasket (18).



Carburetor, Assembly.

f. Installation. (see illustration next page)

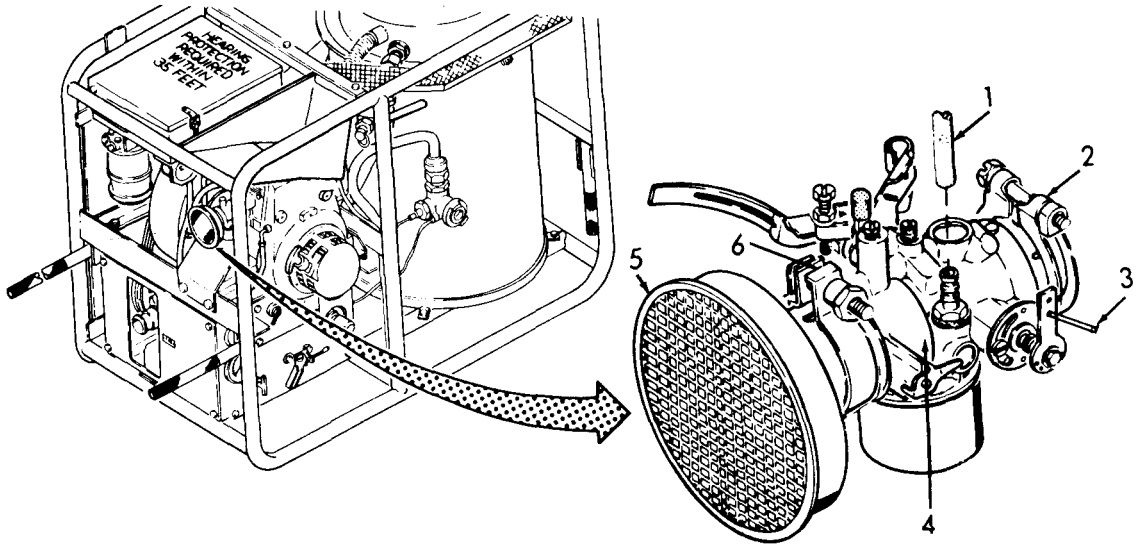
(1) Install air cleaner (5) and tighten clamp (6).

(2) Connect linkage (3) to bottom hole in lever (12).

(3) Install carburetor (4) on engine intake manifold and tighten clamp (2). Be sure slot in carburetor alines with pin on manifold.

(4) Connect fuel line (1) to carburetor (4).

(5) Adjust carburetor (TM 3-4230-218-12&P).



Carburetor, Installation.

2-10. STARTER ASSEMBLY.

This task consists of:

Repair

INITIAL SETUP:

Tools Required:
Tool Kit, General Mechanics
On-Board Tool Kit

Materials Required:
Brush, Varnish (item 1, Appendix C).
Cleaning Solvent (item 5, Appendix C).

Equipment Conditions:
Engine shutdown and cool.
Engine starter removed (TM 3-4230-218-12&P).

2-10. STARTER ASSEMBLY - Continued.

a. Disassembly.

(1) Slowly pull the recoil rope (4) part way out and loosen bushing (5).

(2) Do not let rope recoil. Cut rope (4) as close to the handle as possible. Remove bushing (5). Tie a loose knot in rope and gently let rope recoil.

(3) Remove pin (1) from handle (3) and cut off bushing (2).

b. Cleaning.

WARNING

The cleaning solvent used emits strong vapors and is flammable. To avoid illness or fire, use in a well-ventilated area and away from open flames. Do NOT breathe vapors for a prolonged time.

(1) Clean starter exterior with cleaning solvent (item 5, Appendix C) using a varnish brush (item 1, Appendix C).

(2) Allow to dry.

c. Inspection.

(1) Inspect starter recoil rope for fraying, kinks, or breaks.

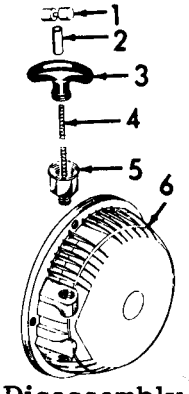
(2) Inspect housing for cracks or missing hardware.

(3) Inspect handle for cracks.

(4) Inspect bushing for cracks.

d. Assembly.

(1) Undo knot, install bushing (5) and retie knot in rope (4). Insert rope thru handle (3) and wrap the rope around bolt (1) twice and secure bolt with new bushing (2).



Starter, Disassembly/Assembly.

2-11. HEAT EXCHANGER.

This task consists of:

a. Replace b. Repair

INITIAL SETUP:

Tools Required:
Tool Kit, General Mechanics Tool Kit, on board
Socket Set, Metric

Materials Required:
Brush, Varnish (item 1, Appendix C).
Cleaning Solvent (item 5, Appendix C).
Tool Kit, On-Board

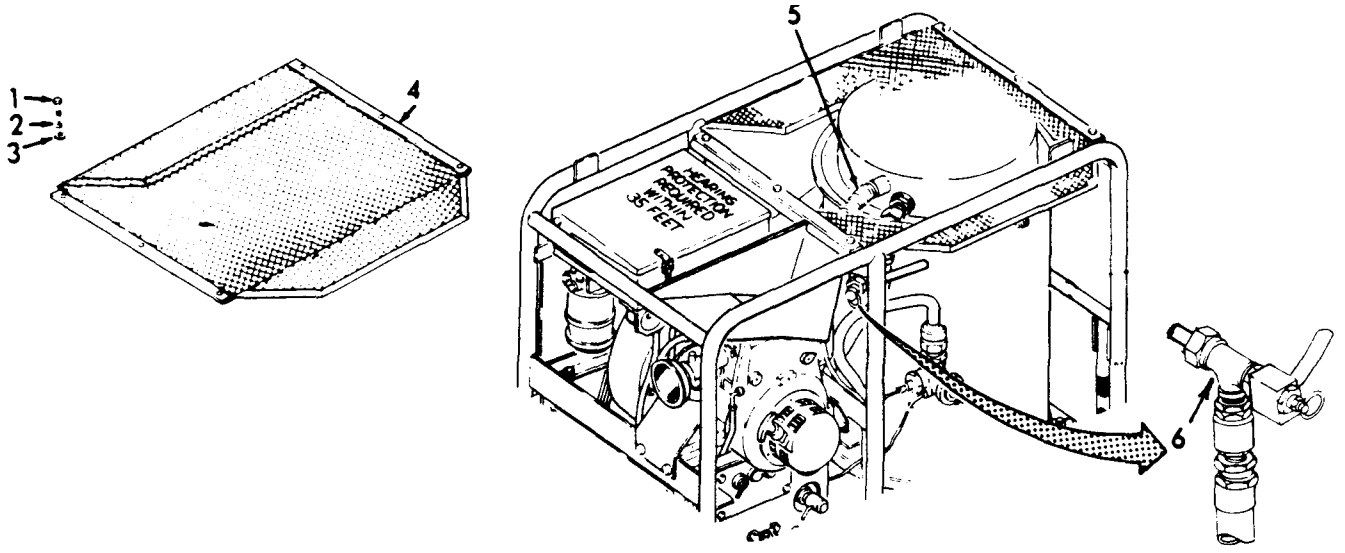
Equipment Conditions:
Engine shutdown and cool.
Burner removed (TM 3-4230-218-12&P).
Photocell removed (TM 3-4230-218-12&P).
Outlet removed (TM 3-4230-218-12&P).

a. Removal.

(1) Remove six bolts (1), six lockwashers (2), six washers (3), and guard (4).

(2) Disconnect hose (5).

(3) Disconnect inlet assembly (6) from heat exchanger.



Heat Exchanger Accessories, Removal.

2-11. HEAT EXCHANGER - Continued.

a. Removal - Continued.

(3) Remove two bolts (13) and two nuts (14).

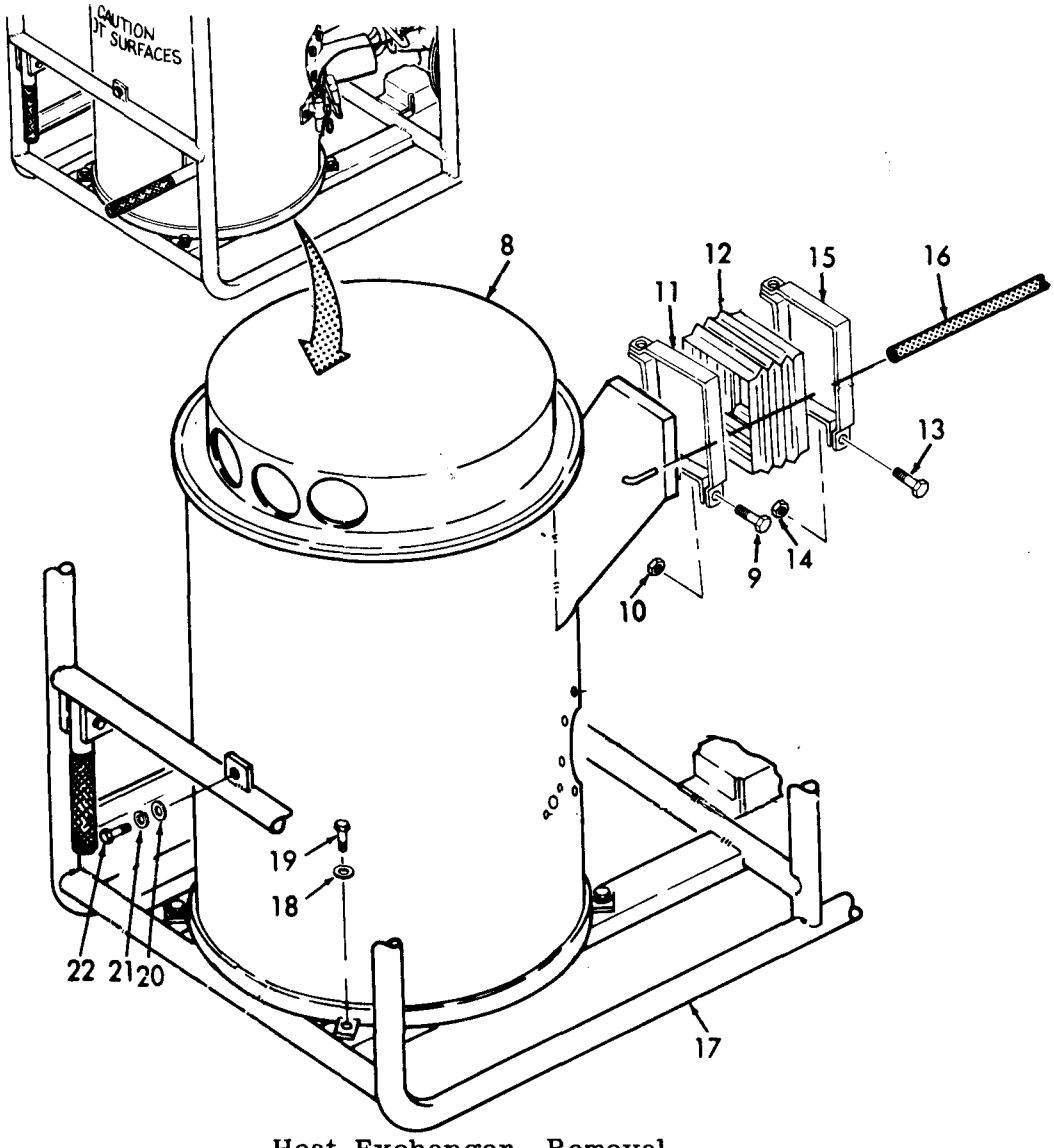
(4) Remove clamp (15) and hose (16).

(5) Remove two bolts (9), two nuts (10), clamp (11), and hose (12).

(6) Remove bolt (22), lockwasher (21), and washer (20).

(7) Remove four bolts (19) and four washers (18).

(8) Rotate heat exchanger (8) clockwise and remove from frame (17), being careful not to bend or damage attaching tabs at base of heat exchanger.



Heat Exchanger, Removal.

b. Disassembly.

(1) Loosen two screws (28) and remove band (27).

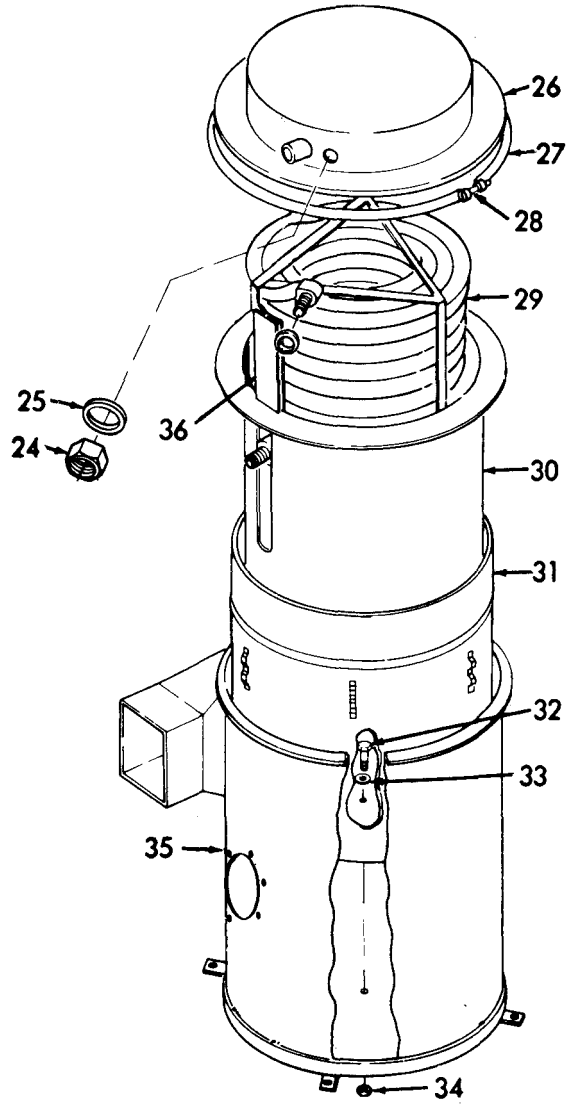
(2) Remove nut (24) and washer (25).

(3) Remove top (26). Pull slide (36) up and remove.

(4) Push coil outlet fitting in until it is clear of casing (35) and shield (31).

(5) Remove slide (36), coil (29), and mantle (30) as an assembly.

(6) Remove nut (34), bolt (32), washer (33), and shield (31).



Heat Exchanger, Disassembly.

2-11. HEAT EXCHANGER - Continued.

c. Cleaning.

Remove deposits from bottom of heat exchanger.

d. Inspection.

(1) Inspect the hardware for stripped threads. Discard if damaged.

(2) Inspect the coil for stripped threads, cracks, holes, leaks, kinks, dents, and corrosion. Replace if damaged.

(3) Inspect coil for burn through. Replace coil if damaged.

(4) Inspect the mantle for holes, dents, cracks, and burrs. Discard if damaged.

(5) Inspect the heat shield for holes, cracks, and dents. Replace if damaged.

(6) Inspect the outer cover and lid for holes, cracks, and dents. Replace if damaged.

e. Repair

Repair of the heat exchanger is limited to the replacement of defective components.

f. Assembly.

(1) Install washer (33) and bolt (32) to shield (31).

(2) Install shield (31) into casing (35).

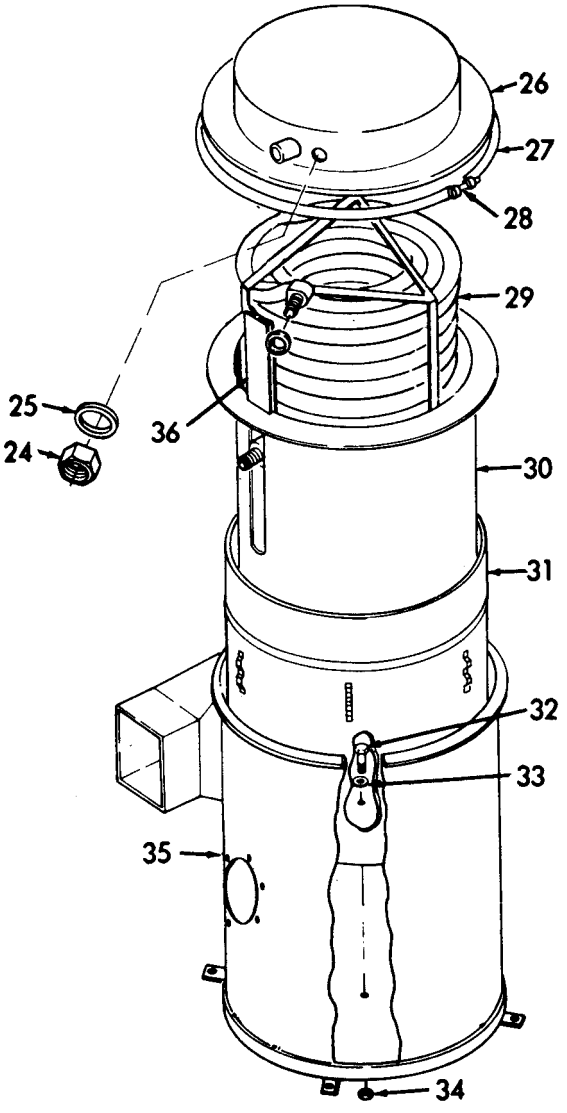
(3) Install nut (34).

(4) Install coil (29) into mantle (30) and position slide (36) in place. Install assembly into shield (3) making sure inlet and outlet fittings line up with holes in shield.

(5) Install top (26).

(6) Install washer (25) and nut (24).

(7) Install band (27) and tighten screws (28).



Heat Exchanger, Assembly.

2-11. HEAT EXCHANGER - Continued.

g. Installation.

(1) Install heat exchanger (8) into position on frame (17). Making sure heat exchanger air inlet is positioned properly in hose (12).

(2) Install hose (5) making sure no binding exists. Place clamp at base of hose on muffler outlet.

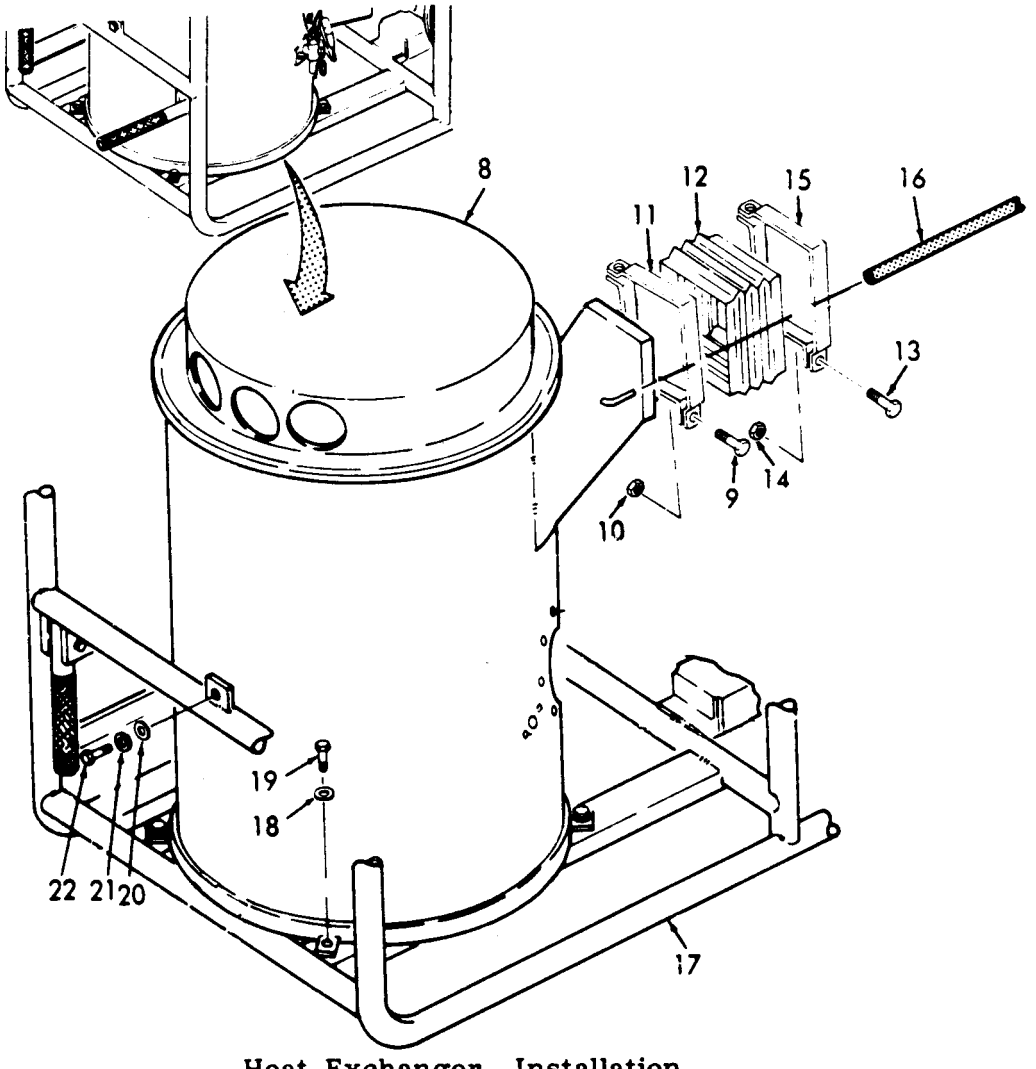
(3) Install four washers (18) and four bolts (19).

(4) Install washer (20), lockwasher (21), and bolt (22).

(5) Install hose (12), clamp (11), two nuts (10), and two bolts (9).

(6) Install hose (16).

(7) Install clamp (15), two nuts (14), and two bolts (13).



Heat Exchanger, Installation.

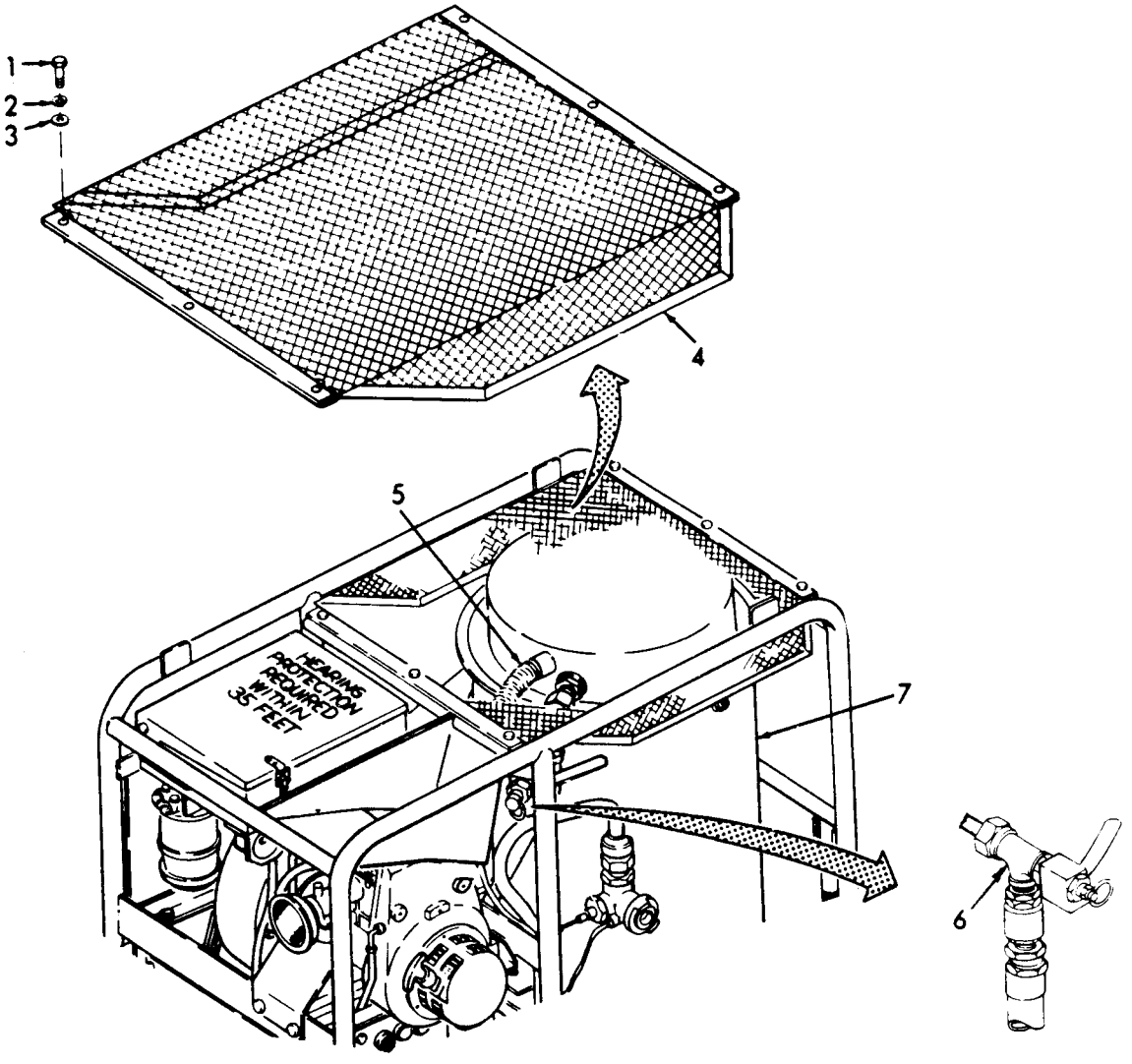
(8) Place guard (4) into position and secure with six washers (3), six lockwashers (2), and six bolts (1).

(9) Install inlet (6) onto heat exchanger (7).

(10) Install outlet (TM 3-4230-218-12&P).

(11) Install photocell (TM 3-4230-218-12&P).

(12) Install burner (TM 3-4230-218-12&P).



Heat Exchanger Accessories, Installation.

2-12. BURNER FUEL SYSTEM.

This task consists of:

Repair

INITIAL SETUP:

Tools Required:
Tool Kit, General Mechanics
Tool Kit from Accessory Box
Socket Set, Metric

Materials Required:
Compound, Locking (item 2, Appendix C).

Equipment Conditions:
Engine shutdown and cool.

NOTE

Replacement of a defective BURNER FUEL VALVE requires control panel disassembly. Refer to page 2-73 for valve replacement procedures.

a. Valve (Magnetic).

(1) Removal.

(a) Disconnect hose (9).

(b) Disconnect hoses (1 and 5).

(c) Tag and disconnect wiring at START BURNER switch and THERMOSTAT SELECTOR switch (see page 2-62).

(d) Remove two bolts (2), two washers (3), and valve (7). Discard valve (7).

(e) Remove valve (8).

(f) Remove tee (4) and nipple (6).

(2) Installation.

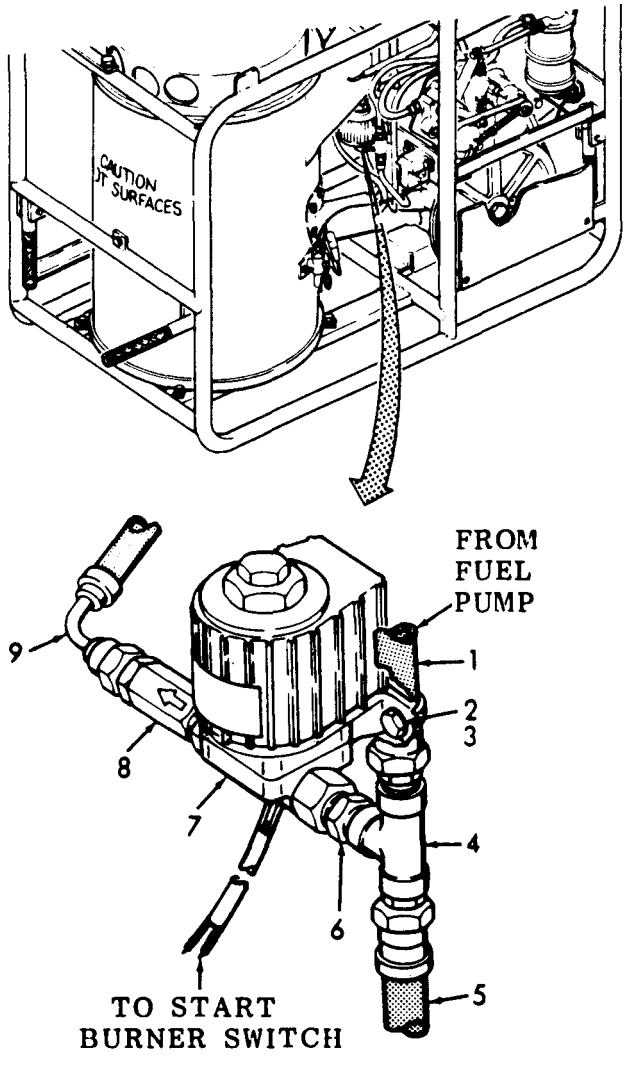
(a) Coat threads with locking compound (item 2, Appendix C) and install nipple (6) and tee (4).

(b) Coat threads with locking compound (item 2, Appendix C) and install valve (8).

(c) Place new valve (7) into position and secure with two washers (3) and two screws (2).

(d) Connect hoses (1), (5), and (9).

(e) Connect wiring of burner magnetic valve VI to thermostat selector switch and burner start switch (see page 2-61).



Valve (Magnetic), Removal/Installation.

2-12. BURNER FUEL SYSTEM - Continued.

b. Pressure Regulator.

(1) Removal.

(a) Release four quick-release fasteners (2) and remove the panel (1).

(b) Disconnect hose assembly (6).

(c) Remove nipple (5).

NOTE

Prevent tee (3) from turning or joint will leak.

(d) Remove regulator (4) from tee (3).

(2) Inspection.

Inspect the pressure regulator for stripped threads, leaks, cracks, and rust/corrosion. Replace if defective.

(3) Installation.

NOTE

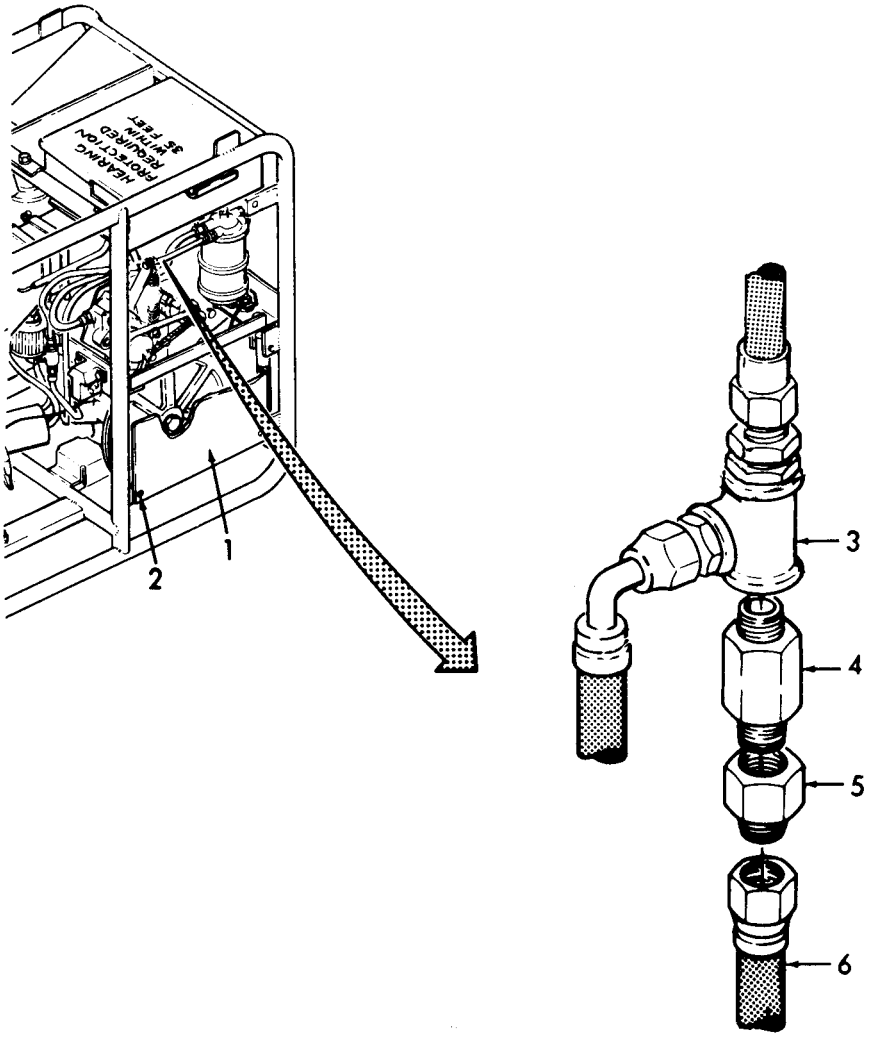
Prevent tee (3) from turning or joint will leak.

(a) Apply locking compound (item 2, Appendix C) to threads and install regulator (4) to tee (3).

(b) Install nipple (5).

(c) Connect hose assembly (6).

(d) Install panel (1) and tighten four quick-release fasteners (2).



Pressure Regulator, Removal/Installation.

2-12. BURNER FUEL SYSTEM - Continued.

c. Fuel Pump.

(1) Removal.

(a) Remove screw (7) and washer (6). Disconnect spring (1) from pump (9).

(b) Remove hose assembly (2) and hose assembly (4) from tee (3).

(c) Remove hose assembly (10).

(d) Remove nut (13), washer (12), screw (8), pump (9), and spacer (11) from housing (14).

(e) Remove elbow (5) with tee (3) from pump (9).

(2) Inspection.

(a) Inspect pump for cracks, leaks, dents, rust, corrosion, stripped hose mounting threads and free turning pulley. Replace pump if defective.

(b) Inspect hardware for stripped threads. Replace if defective.

(3) Installation.

(a) Apply locking compound (item 2, Appendix C) to elbow (5) and install elbow with attached tee (3) to pump (9).

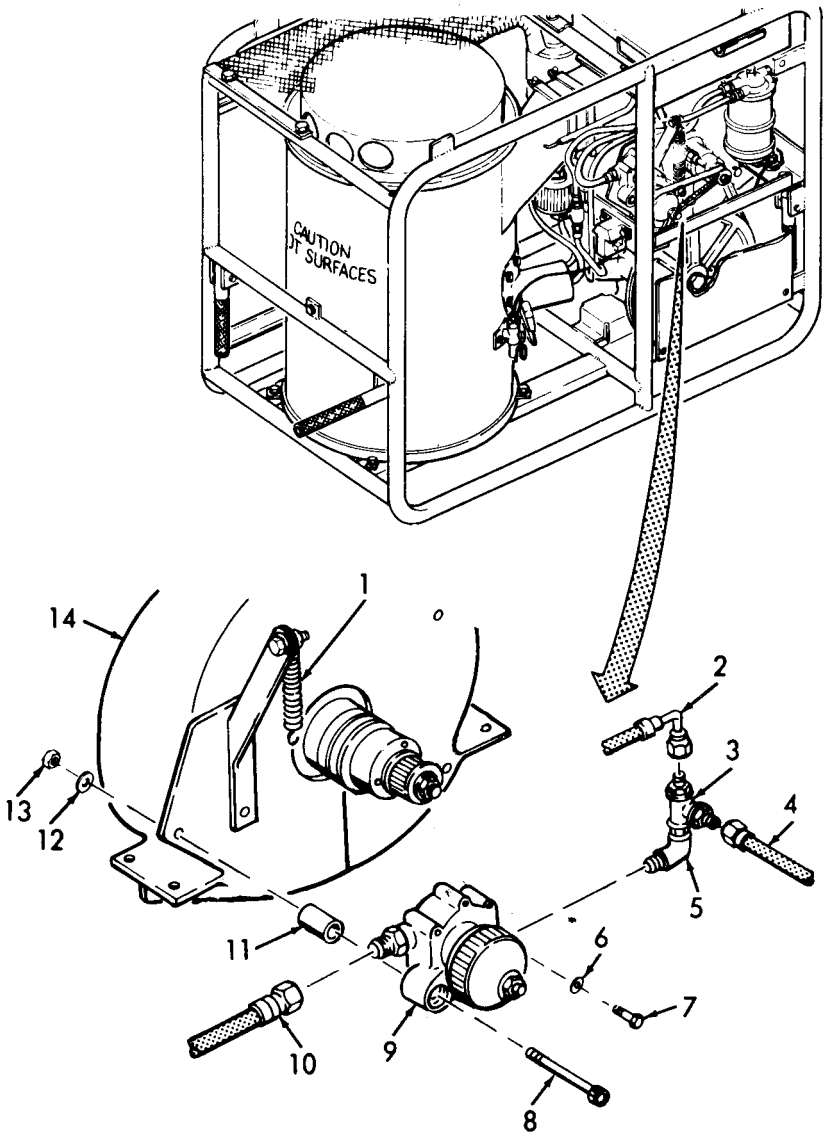
(b) Install spacer (11), pump (9), screw (8), washer (12), and nut (13) to housing (14).

(c) Install hose assembly (10).

(d) Install hose assembly (4) and hose assembly (2) to tee (3).

(e) Install spring (1) to pump (9) and secure with washer (6) and screw (7).

(f) Install drive belt in accordance with TM 3-4230-218-12&P.



Burner Fuel Pump, Removal/Installation.

2-13. FUEL FILTER.

This task consists of:

Replace

INITIAL SETUP:

Tools Required:
Tool Kit, General Mechanics
Socket Set, Metric

Materials Required:
Brush, Varnish (item 1, Appendix C).
Locking Compound (item 2, Appendix C).

Equipment Conditions:
Engine shutdown and cool.

a. Removal.

(1) Loosen drain (9) and catch fuel in any available container.

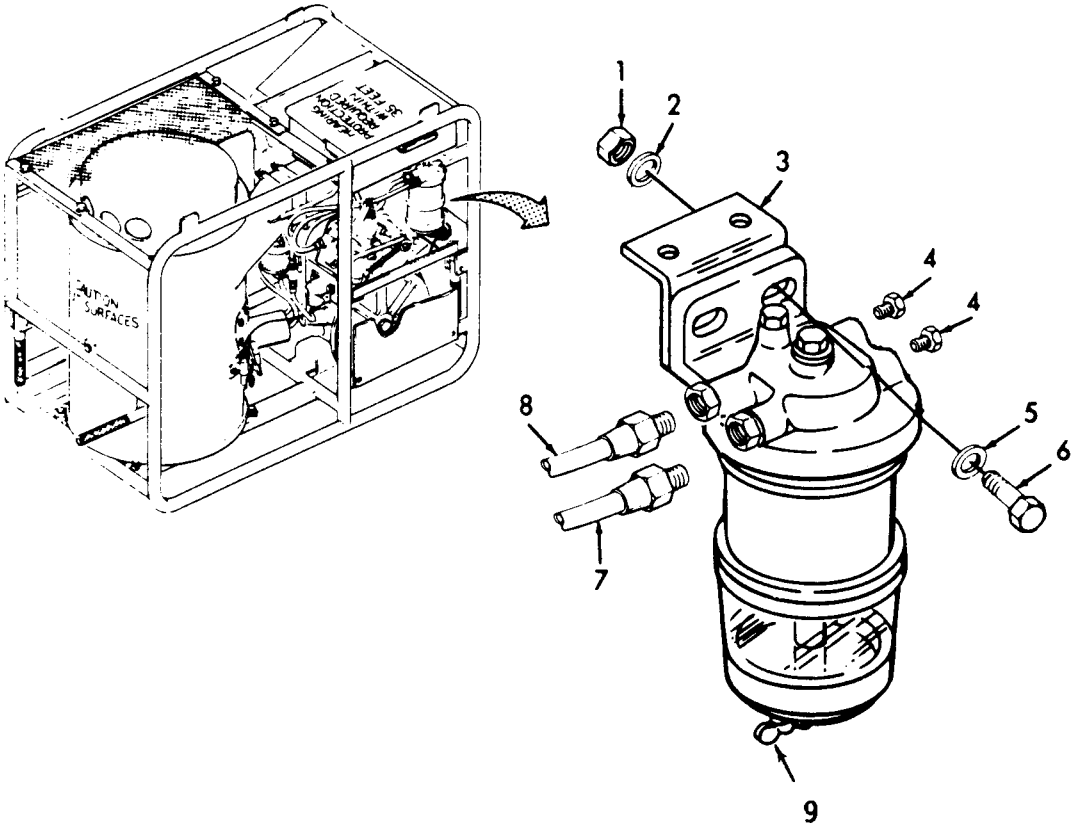
(2) Tag and disconnect the fuel lines (7) and (8).

(3) Remove two nuts (1), two washers (2), two bolts (6), two washers (5), from filter bracket (3) and two plugs (4) from filter head.

b. Installation.

(1) Place filter onto bracket (3) and secure with two washers (5), two bolts (6), two washers (2), and two nuts (1).

(2) Apply locking compound (item 2, Appendix C) and install fuel hoses (7) and (8) and two plugs (4) onto filter head.



Fuel Filter, Removal/Installation.

2-14. CONTROL PANEL.

This task consists of:

Repair

INITIAL SETUP:

Tools Required:
Tool Kit from Accessory Box
Tool Kit, General Mechanics
Socket Set, Metric

Materials Required:
Multimeter
Compound, Locking (item 2, Appendix C).
Tie Wrap, Plastic (item 6, Appendix C).

Equipment Conditions:
Engine shutdown and cool.

a. Inspection.

(1) Inspect, the hardware for stripped threads. Replace if defective.

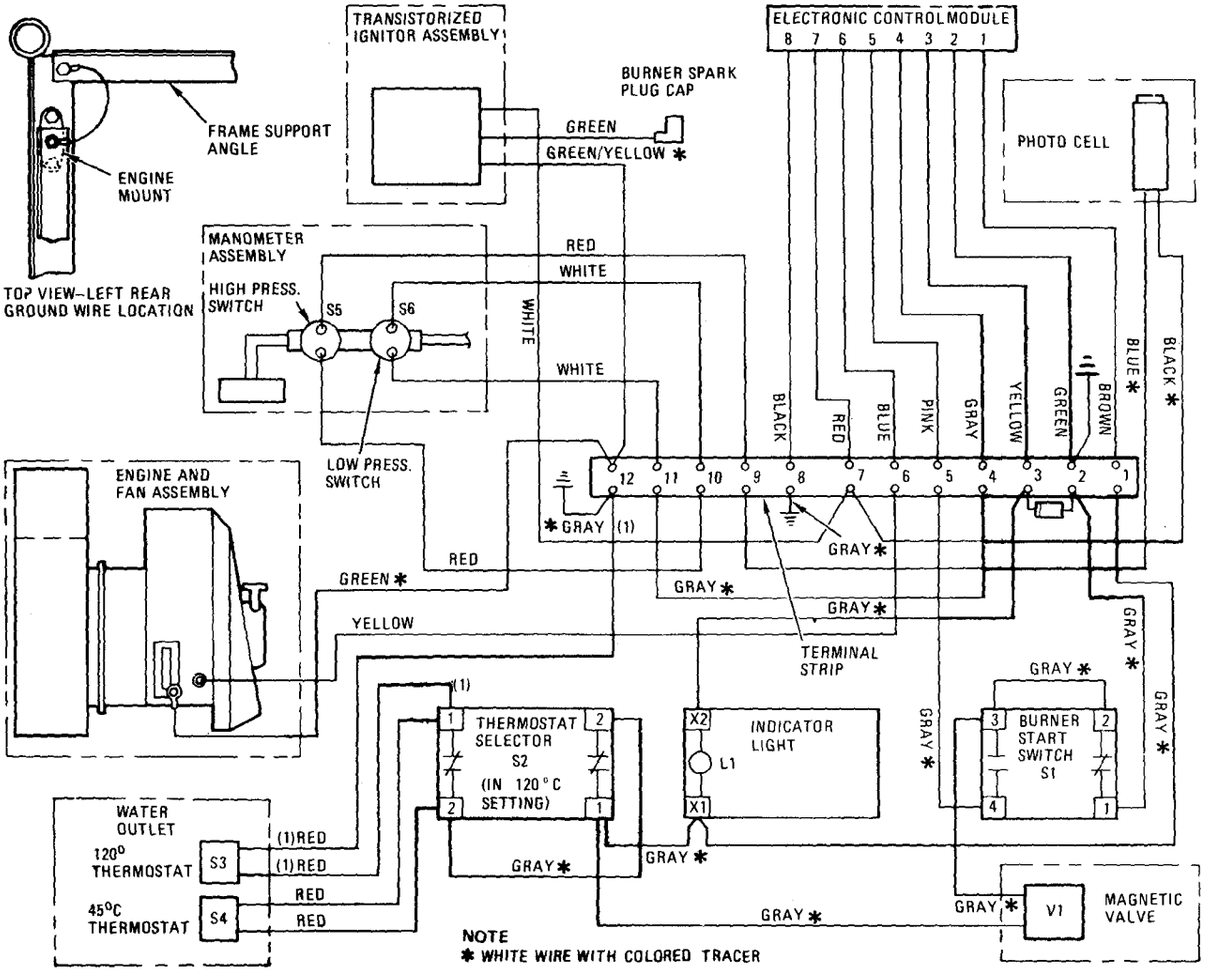
(2) Inspect all gage faces for cracks, lack of fluid, or obviously wrong readings. Replace gage if defective.

(3) Inspect all control handles for loose mounting, broken grips, cracks, and failure to operate. Replace if defective.

(4) Inspect the switches for broken levers and signs of burning. Replace if defective.

(5) Inspect the wiring and cables for signs of fraying, deteriorated insulation, exposed insulation, loose connections, and signs of burning. Tighten loose connections.

(6) Using the control panel schematic, verify that all wiring connections are correct.



Control Panel Schematic.

2-14. CONTROL PANEL - Continued.

b. Testing.

NOTE

- The following procedures test all electrical switches for proper operation.
- This test procedure requires being familiar with the control panel wiring schematic on page 2-61. All wiring designations and item numbers refer to this schematic.
- The use of a multimeter is required throughout this test procedure.

(1) Thermostat Selector Switch (S2).

Thermostat selector switch has two normally closed contacts. Test switch for proper operation as follows:

(a) Remove front panel (page 2-64).

(b) Disconnect switch S4 and S3 leads from terminals 1 and 2 on switch S2.

(c) Set switch S2 to 45°C position.

(d) With temperature at water outlet below 45°, check continuit y across terminals (1 and 2). (Previously connected to switch S4). If no continuity exists, replace switch S2.

(e) Check continuity on other set of contacts on switch designated 1 and (2). If continuity does not exist, replace switch S2.

(f) Set switch S2 to 120°C position.

(g) Check continuity across terminals 1 and 2 (previously connected to switch S4). If continuity does not exist, replace switch S2.

(h) Check continuity across adjacent terminals 1 and 2. If continuity does not exist, replace switch S2.

(i) For thermostat selector switch replacement refer to page 2-68) .

(2) Start Burner Button S1.

START BURNER switch S1 has one normally open switch and one normally closed switch. It is a momentary contact switch. Check this switch for proper operation as follows:

(a) Remove front panel (page 2-64).

(b) Depress START BURNER switch S1. Check continuity across terminals 3 and 4 using a multimeter. If continuity does not exist, replace switch S1.

(c) Do not press pushbutton on START BURNER switch S1. Check continuity across terminals 1 and 2. If continuity does not exist, replace switch S1.

(d) For START BURNER button S1 replacement refer to page 2-62.

(3) Thermostat S3 (High Temp).

Thermostat S3 has contacts that remain closed until the water temperature at outlet water assembly goes above 120°C. The contacts then open to stop burner ignition. To determine if thermostat S3 is faulty, proceed as follows:

(a) Remove front panel (page 2-64).

(b) Turn thermostat selector switch S2 (9) to 120°C position.

(c) Temporarily disconnect thermostat S4. Ensure that continuity exists across terminals 1 and 2 using a multimeter. If continuity exists, proceed to next step; if no, check thermostat selector switch (page 2-62).

(d) At temperature under 120°F, check for continuity between terminals 3 and 12. If continuity does not exist; replace switch S3.

(e) For thermostat S3 replacement refer to page 2-68.

(4) Thermostat S4 (Low Temp).

Thermostat S4 has contacts that remain closed until the water temperature at outlet water fitting goes above 45°C. The contacts then open to stop burner ignition. To determine if thermostat S4 is faulty, proceed as follows:

(a) Remove front panel refer to page 2-64.

(b) Turn thermostat selector switch to 45°C position.

(c) Disconnect thermostat S4 from temperature selector switch S2. Ensure that continuity does not exist across terminal 1 and 2 on switch S2. If continuity does not exist, proceed to next step. If continuity does exist, check thermostat selector switch (page 2-62).

(d) Reconnect thermostat S4 terminals to temperature selector switch S2.

2-14. CONTROL PANEL - Continued.

b. Testing - Continued.

(4) Thermostat S4 (Low Temp) - Continued.

(e) At temperatures under 45°C, check for continuity between terminals 1 and 2 on thermostat selector switch S2. If continuity does not exist, replace thermostat S4. If continuity exists, proceed to next step.

(f) Remove manometer sensing port from outlet assembly.

(g) Disconnect outlet assembly from heat exchanger and place in container of hot water (above 45°C). Read exact temperature on control panel temperature gage.

(h) For thermostat S4 replacement, refer to page 2-69.

c. Repair.

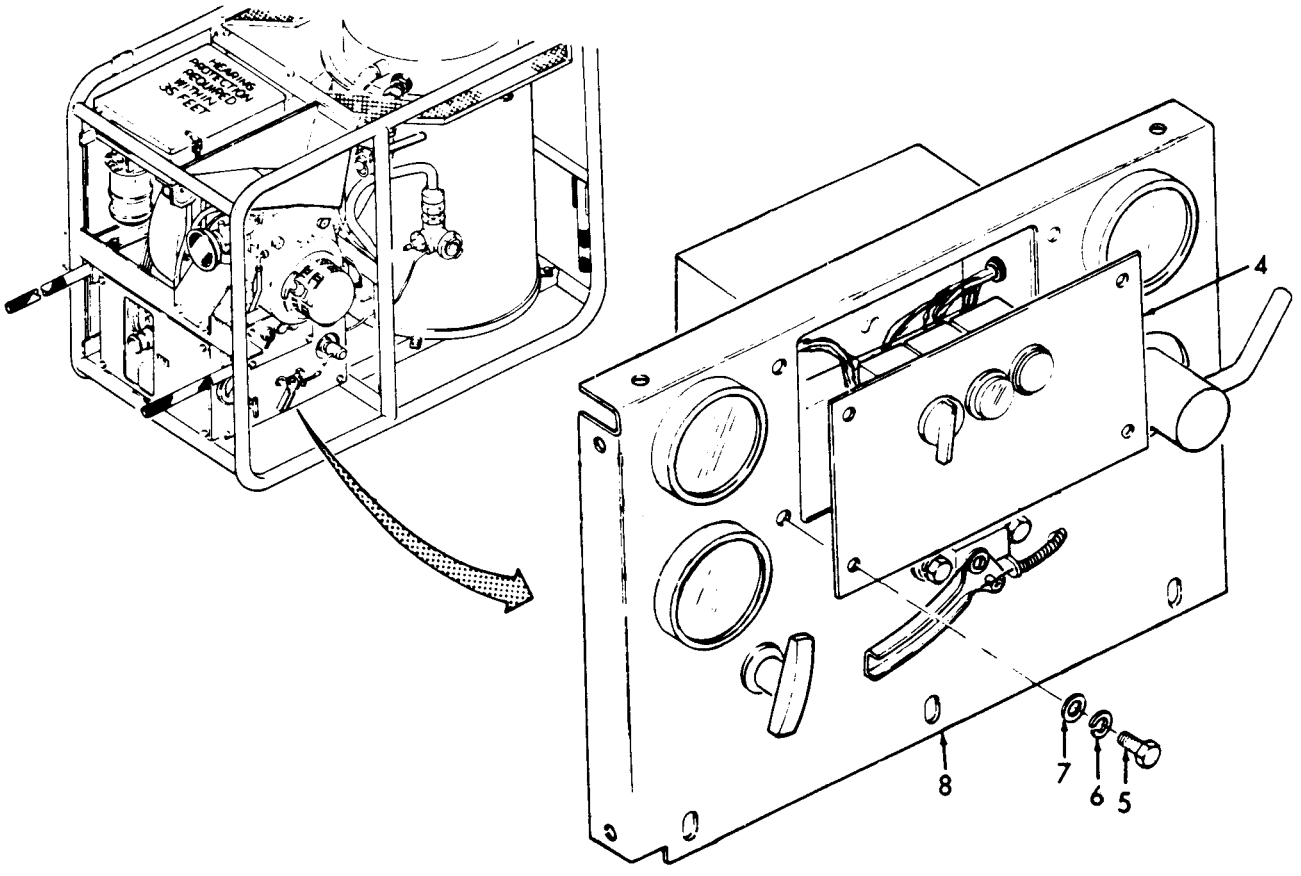
Repair of the control panel is limited to the replacement of damaged components as follows:

(1) Front Panel Repair.

(a) Remove four bolts (5), four lockwashers (6), and four washers (7).

(b) Carefully ease panel (4) away from the control panel (8). (If panel merely needs a switch or light holder, proceed to step (3) (a). Reinstall panel.

(c) Install four washers (7), four lockwashers (6), and four bolts (5).



Front Panel Repair.

2-14. CONTROL PANEL - Continued.

c. Repair - Continued.

(2) Start Burner Switch, S-1.

(a) Loosen two screws at rear of switch (10).

(b) Tag and disconnect wiring from rear of switch (10).

(c) Turn push button 1/8 turn counterclockwise and remove from panel.

(d) Remove switch (10) from panel (11).

(e) Install a new switch.

(f) Install switch (10) into position and install marker (12).

(g) Tighten both screws on rear of the switch (10).

(h) Connect wiring to new switch (10) per tagged identification.

(3) Indicator Light Holder, L1.

(a) Tag and disconnect wiring from rear of holder (9).

(b) Loosen two screws on rear of holder (9).

(c) Turn lens (13) 1/8 turn counterclockwise and pull from panel.

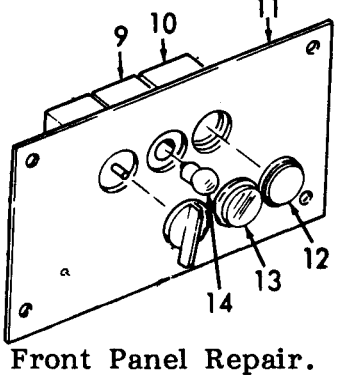
(d) Remove lamp (14).

(e) Remove holder (9).

(f) Replace defective parts.

(g) Install holder (9) into position.

(h) Install lamp (14) and lens (13).



Front Panel Repair.

(i) Tighten two screws on rear of holder (9).

(j) Connect wiring per tagged identification.

(4) Thermostat Selector Switch, S-2.

(a) Tag and disconnect wiring from the rear of switch (15).

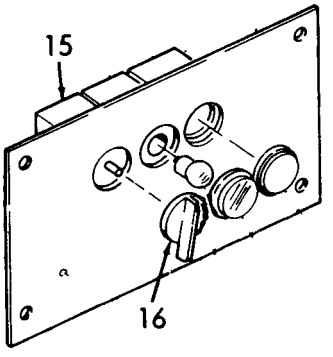
(b) Loosen two screws on rear of switch (15).

(c) Remove knob (16) by turning collar 1/8 turn counterclockwise and pull from front of switch (15). Replace broken parts.

(d) Assemble by placing switch (15) into position and tighten both screws on rear of switch (15).

(e) Connect wiring to rear of switch per tagged identification.

(f) Install knob (16) and tighten setscrew.



Front Panel Repair.

2-14. CONTROL PANEL - Continued.

c. Repair - Continued.

(5) High Temperature Thermostat (S3) Replacement.

(a) Disconnect switch leads from terminal 12 of the control panel terminal strip and from terminal 1 of the THERMOSTAT SELECTOR switch (S2).

(b) Clip the wraps securing switch leads.

CAUTION

Stud threads contain an undercut and stud could twist off during removal. Use great care and, if possible, soften the locking compound (item 2, Appendix C) with heat before attempting removal.

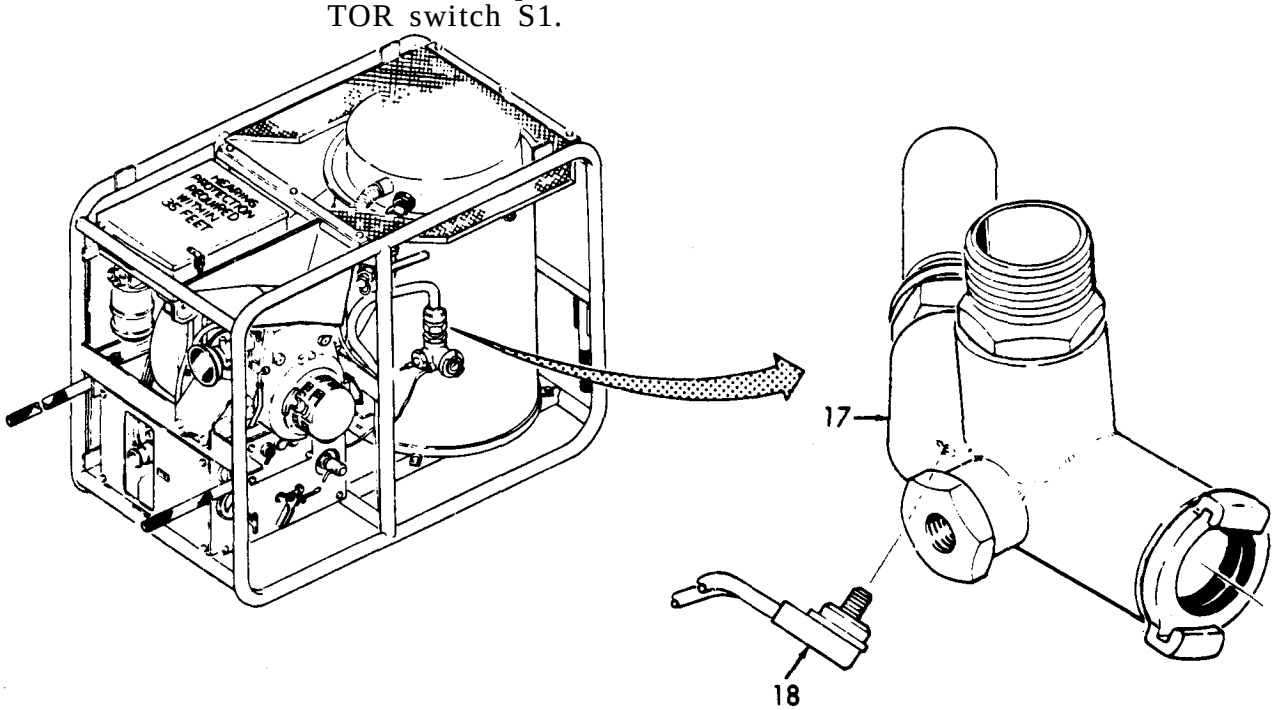
(c) Remove switch (18).

(d) Apply locking compound (item 2, Appendix C) to new switch threads.

(e) Install switch (18) to tee (17) handtight.

(f) Secure switch leads by attaching tie wraps.

(g) Attach terminal ends to terminal 12 of the control panel terminal strip and to terminal 1 of THERMOSTAT SELECTOR switch S1.



High Temperature Thermostat (S3) Replacement.

(6) Low Temperature Thermostat (S4) Replacement.

(a) Disconnect switch leads from terminals 2 and 1 of THERMOSTAT SELECTOR switch S2.

(b) Clip tie wraps securing switch leads.

CAUTION

Stud threads contain an undercut and stud could twist off during removal. Use great care and, if possible, soften the locking compound (item 2, Appendix C) with heat before attempting removal.

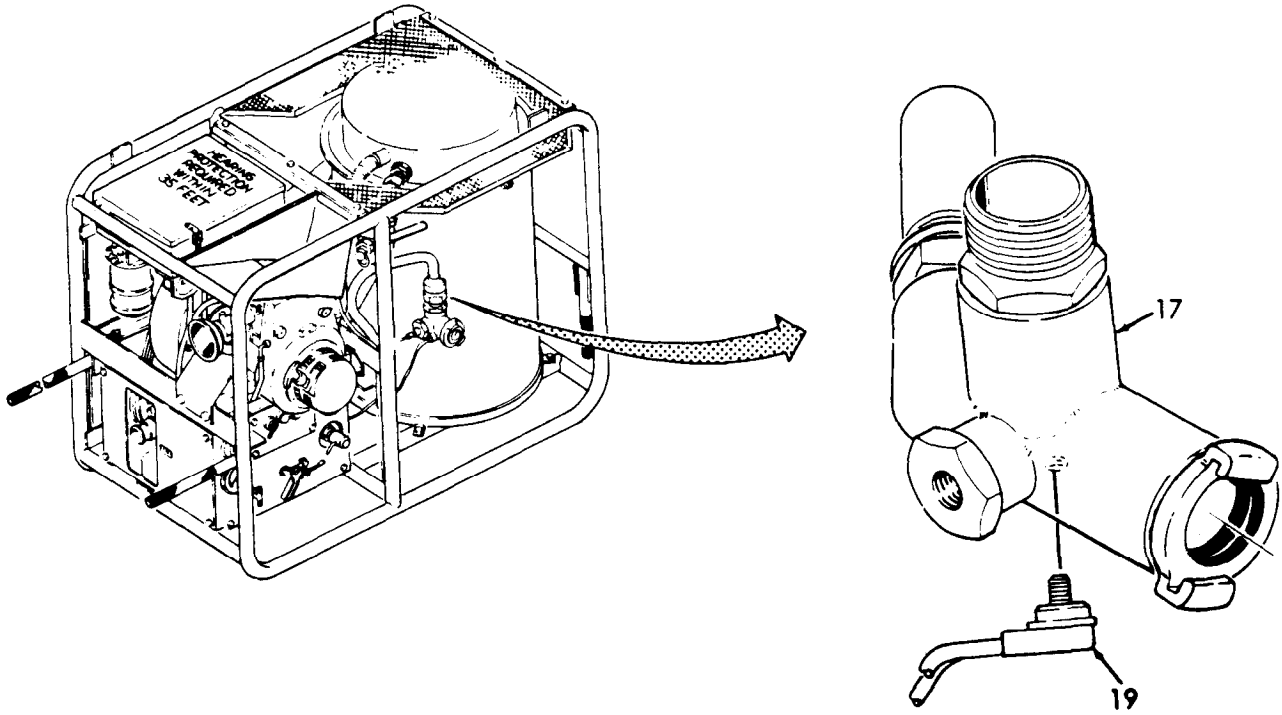
(c) Remove the switch (19).

(d) Apply locking compound (item 2, Appendix C) to new switch threads.

(e) Install switch (19) to tee (17) handtight.

(f) Secure switch leads by attaching tie wraps.

(g) Attach terminal ends to terminals 1 and 2 of THERMOSTAT SELECTOR switch S1.



Low Temperature Thermostat (S4) Replacement.

2-14. CONTROL PANEL - Continued.

c. Repair - Continued.

(7) Thermometer Replacement.

(a) Remove inlet panel.

(b) Remove two nuts (24) and bracket (23) from thermometer (22).

(c) Loosen threaded collar at water outlet and remove sensing bulb (20).

(d) Clip and remove tie wrap securing lead (21).

(e) Remove thermometer (22) from panel (8).

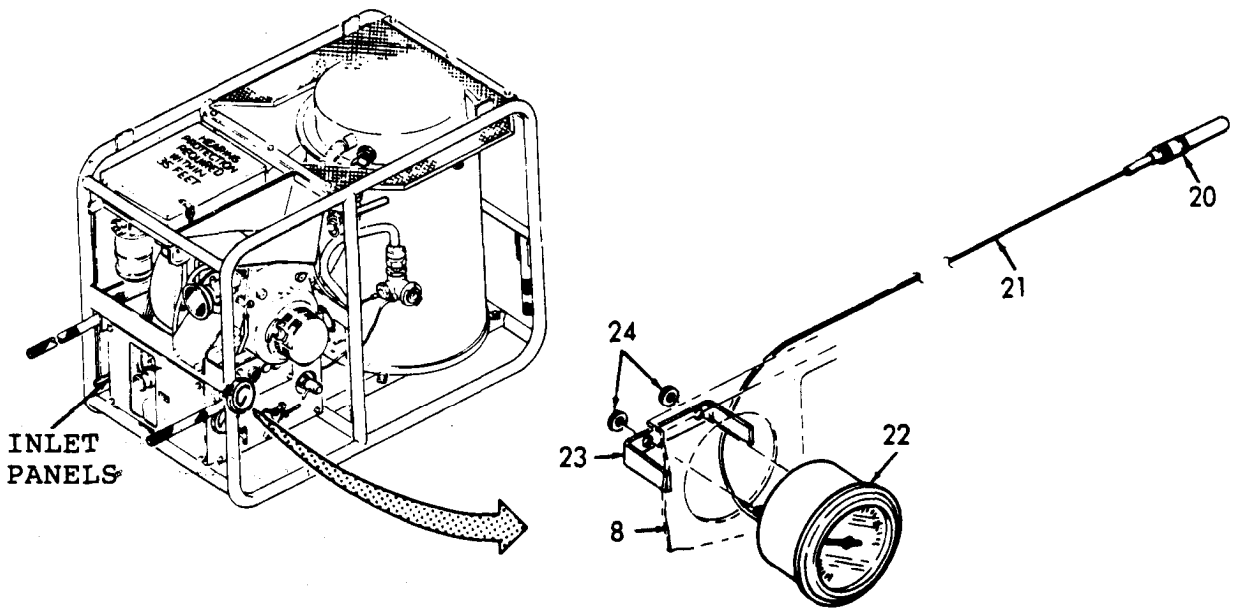
(f) Install new thermometer (22) into panel (8).

(g) Install sensing bulb (20) into water outlet and tighten threaded collar.

(h) Secure lead (21) with tie wrap (item 6, Appendix C).

(i) Install bracket (23) and two nuts (24) to secure thermometer (22).

(j) Replace inlet panel.



Thermometer (Water Temperature Gage) Replacement.

(8) Manometer Gage Replacement.

(a) Remove inlet panel.

(b) Disconnect pressure switch leads (29). Remove tie wraps. Refer to schematic (page 2-61).

(c) Remove two nuts (28) and bracket (27).

(d) Loosen large hex nut (25) and remove manometer sensor (29A).

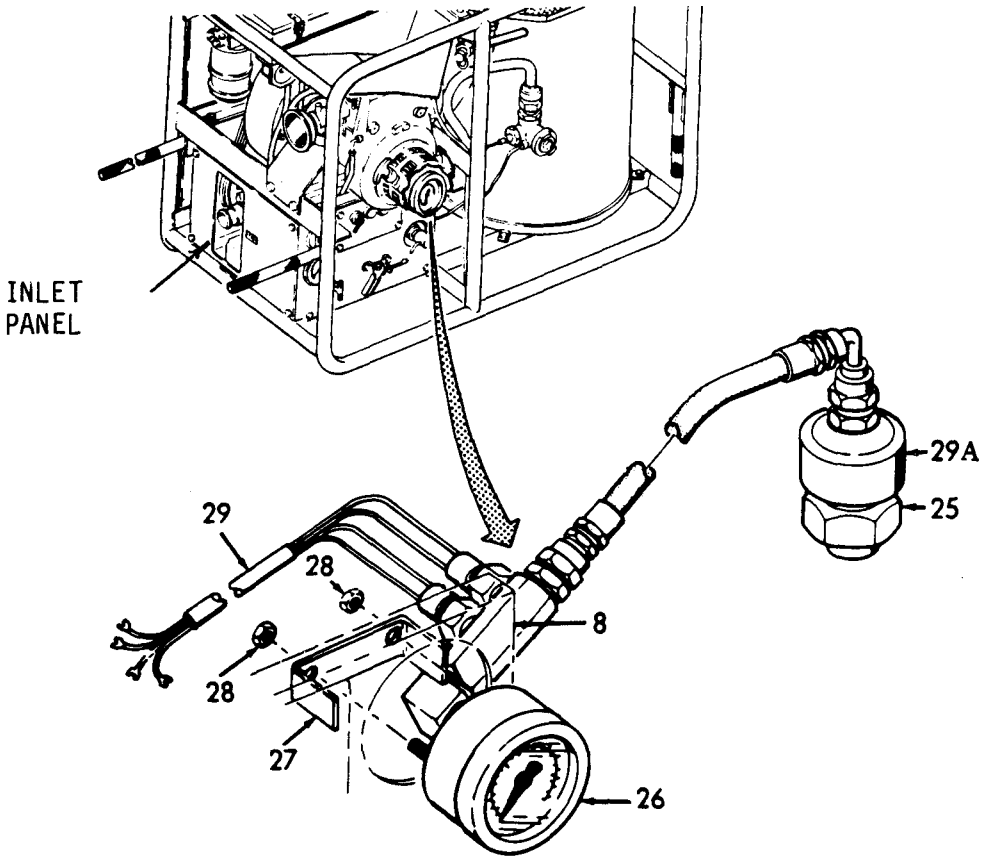
(e) Slide manometer (26) out front of panel (8).

(f) Install new manometer (26) into position in panel (8).

(g) Connect manometer sensor (29A) and tighten large hex nut (25).

(h) Install bracket (27) and two nuts (28).

(i) Reconnect pressure switch leads (29). Reinstall tie wraps (item 6, Appendix C). (See schematic page 2-61).



Manometer (Water Pressure Gage) Replacement.

2-14. CONTROL PANEL - Continued.

c. Repair - Continued.

(9) (Fuel pressure Gage) Replacement.

WARNING

When working on fuel systems, catch leaking fuel in any small container available. Be extremely careful to avoid sparks and flames.

(a) Remove inlet panel.

(b) Disconnect hose (30) from rear of manometer (32).

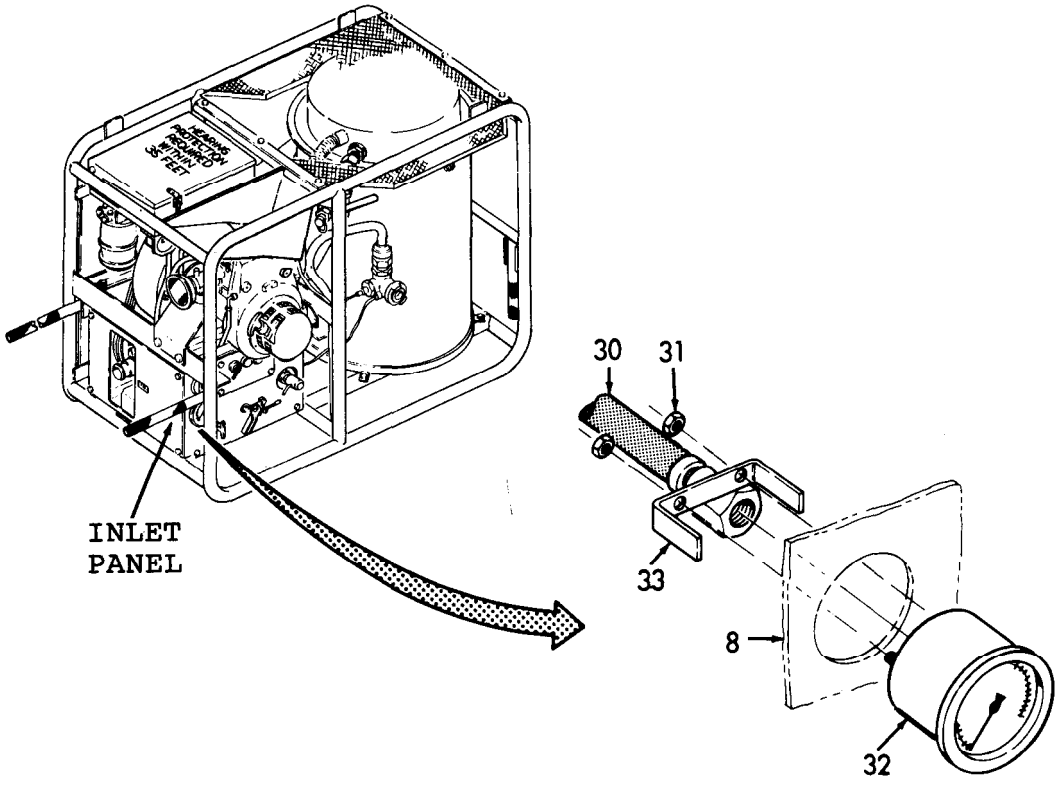
(c) Remove two nuts (31) and bracket (33).

(d) Remove manometer (32) from panel (8).

(e) Install new manometer (32) to panel (8).

(f) Install bracket (33) and two nuts (31).

(g) Connect hose (30) to rear of manometer (32).



Fuel Pressure Gage Replacement.

(10) Burner Fuel Valve Replacement.

(a) Remove inlet panel.

(b) Loosen packing nut (41).

(c) Unscrew and remove stem (42).

(d) Remove nut (40), lockwasher (43), and washer (39).

(e) Slide the valve (35) out rear of panel (8). Remove washer (37).

(f) Disconnect hose assembly (45) and remove adapter (34). Remove valve (35) from check valve (36).

(g) Remove check valve (36) and adapter (46) from hose (47).

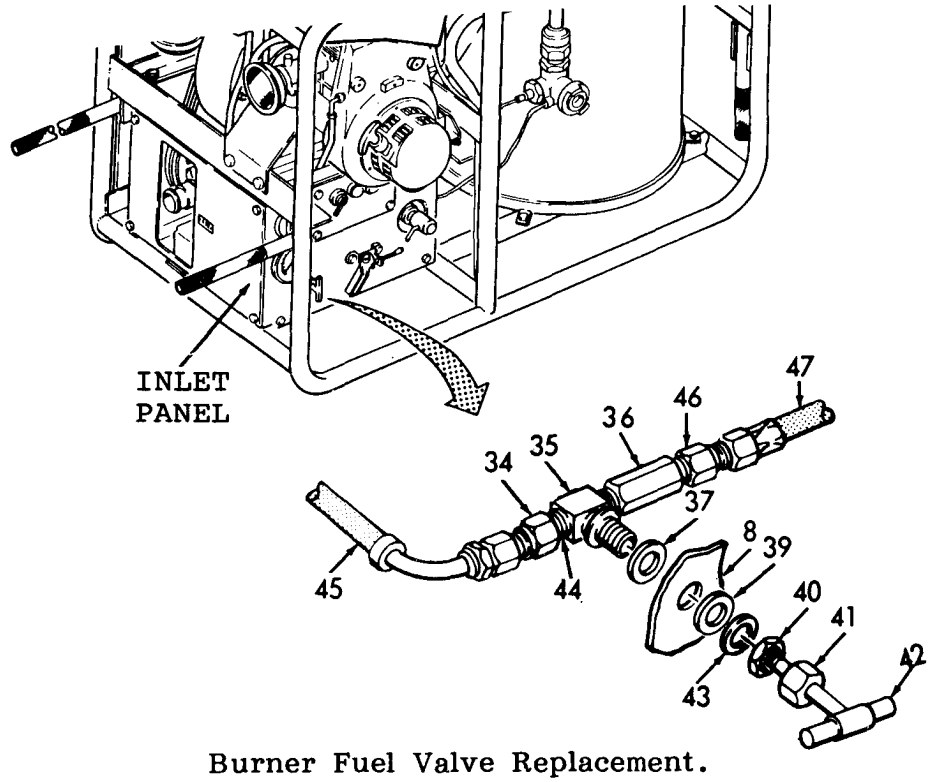
(h) Apply locking compound (item 2, Appendix C) on all threads. Assemble adapter (34), valve (35), check valve (36), and adapter (46).

(i) Connect hose (47) to adapter (46), and hose (45) to adapter (34).

(j) Install valve (35) and washer (37) onto rear of panel (8).

(k) Install washer (43), washer (39), and nut (40).

(l) Install stem (42) and tighten packing nut (41).



Burner Fuel Valve Replacement.

2-14. CONTROL PANEL - Continued.

c. Repair - Continued.

(11) Electronic Control Module Replacement.

(a) Disconnect panel wiring (49) from terminal strip (refer to page 2-61).

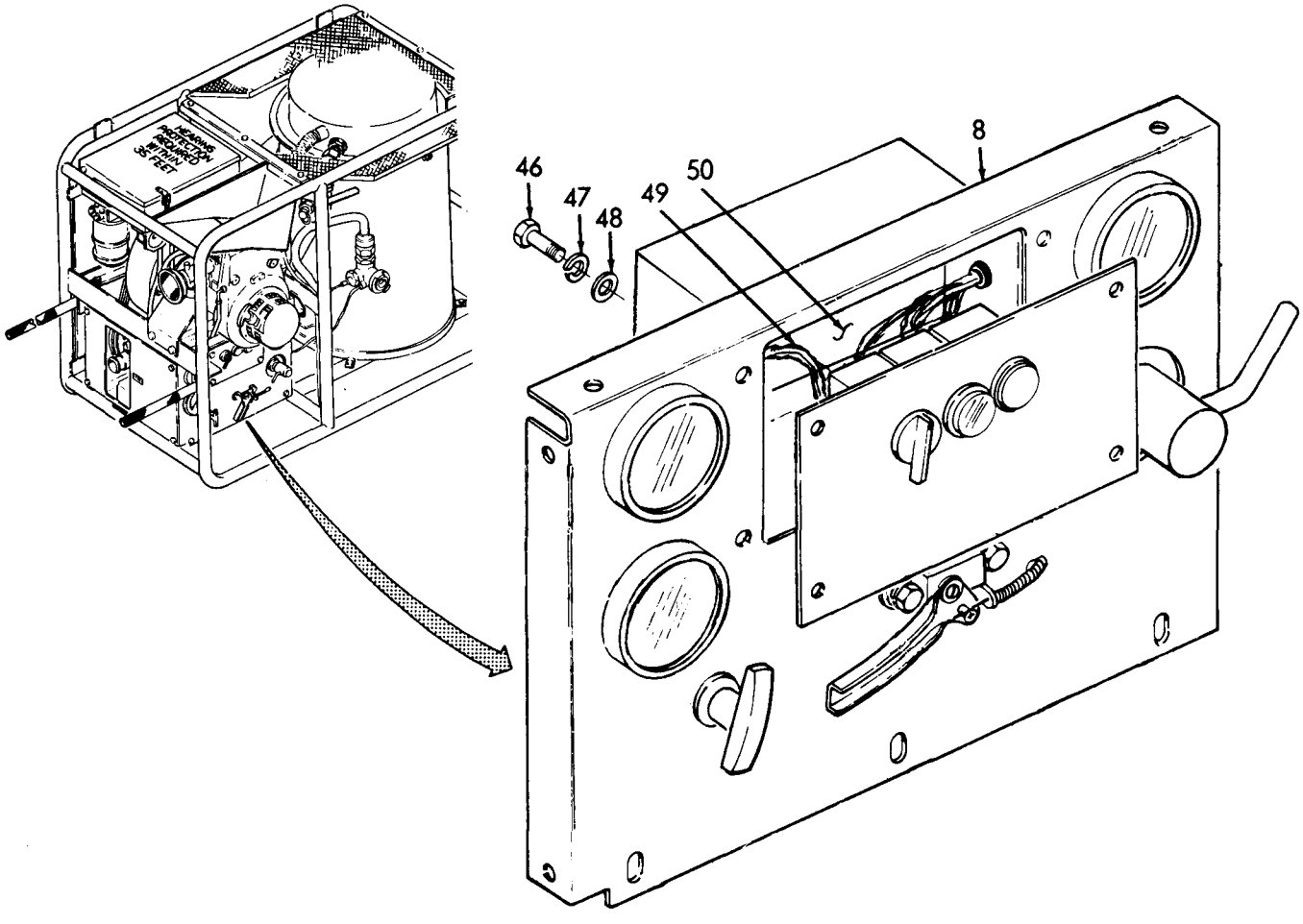
(b) Remove two bolts (46), two lockwashers (47), and two washers (48).

(c) Remove module (50) from panel (8).

(d) place module (50) into position in panel (8).

(e) Install two washers (48), two washers (47), and two bolts (46).

(f) Connect wiring (49). Refer to page 2-61.

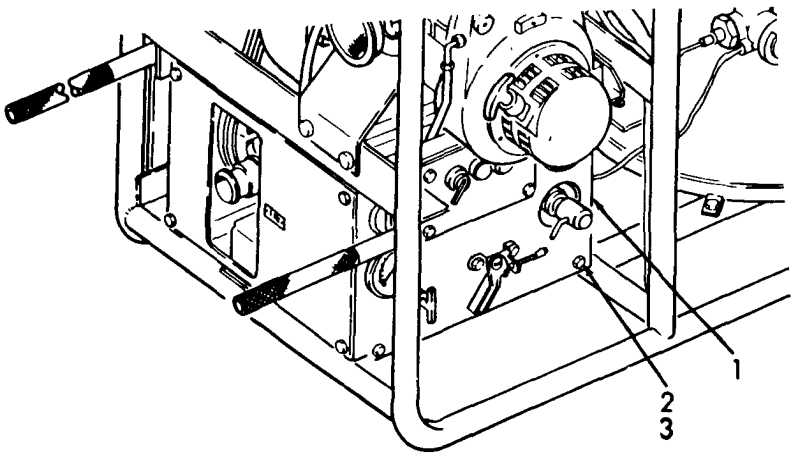


Electronic Control Module Replacement.

(12) Reinstallation of Control Panel.

(a) Carefully install panel (1) into position.

(b) Install four washers (3) and four bolts (2).



Control Panel, Installation.

2-15. FRAME.

This task consists of:

a. Repair

INITIAL SETUP:

Tools Required:
Tool Kit, General Mechanics
Tool Kit from Accessory Box

Materials Required:
Brush, Varnish (item 1, Appendix C).
Cleaning Solvent (Item 5, Appendix C).

Equipment Conditions:
Engine shutdown and cool.
Engine and fan assembly removed (page 2-22).
Heat exchanger removed (page 2-46).
Control panel removed (page 2-60).
Water outlet assembly removed (TM 3-4230-218-12&P).
Tool box removed (TM 3-4230-218-12&P).
Inlet remove (TM 3-4230-218-12&P).

2-15. FRAME - Continued.

a. Disassembly.

NOTE

Disassemble only to the extent required for repair.

(1) Remove nut (1), washer (2), bolt (5), washer (4), and handle (3). Repeat for other three handles.

(2) Release four quick-release fasteners (12) and remove panel (13).

(3) Remove two bolts (14), two lockwashers (15), two washers (16), and angle (17).

(4) Remove four nuts (8), four washers (7), four bolts (19), four washers (6), and housing (18).

(5) Remove four bolts (11), four washers (10), and two (hard) rear mounts (9).

(6) Remove four bolts (11), four washers (10), and two (soft) front mounts (19).

b. Cleaning.

WARNING

The cleaning solvent used emits strong vapors and is flammable. To avoid illness or fire, use in a well-ventilated area and away from open flames. DO NOT breathe vapors for a prolonged time.

(1) Wash all parts of the frame (including frame) in cleaning solvent (item 5, Appendix C) using a varnish brush (item 1, Appendix C).

(2) Allow to dry.

c. Inspection.

(1) Inspect all hardware for stripped threads. Replace if defective.

(2) Inspect all parts of the frame for cracks, holes, elongated mounting holes, broken tubes, and rust/corrosion.

d. Repair.

Repair of the frame is limited to the following:

(1) Replacement of hardware.

2-15. FRAME - Continued.

d. Repair - Continued.

(2) Replacement of support brackets and panels.

(3) Straightening of all bent frame members.

e. Assembly.

CAUTION

The engine mounts are not identical. Failure to install proper mounts into proper location will result in equipment damage.

(1) Install two (soft) front mounts (19) into position and secure with four washers (10), and four bolts (11).

(2) Install two (hard) rear mounts (9). into position and secure with four washers (10) and four bolts (11).

(3) Install housing (18), four nuts (8), four washers (7), four bolts (20), and four washers (6).

(4) Install angle (17), two washers (16), two lockwashers (15), and two bolts (14).

(5) Install panel (13) and secure with four quick-release fasteners (12).

(6) Install handle (3), washer (4), bolt (5), washer (2), and nut (1).

(7) Install tool box and fuel hoses (TM 3-4230-218-12&P).

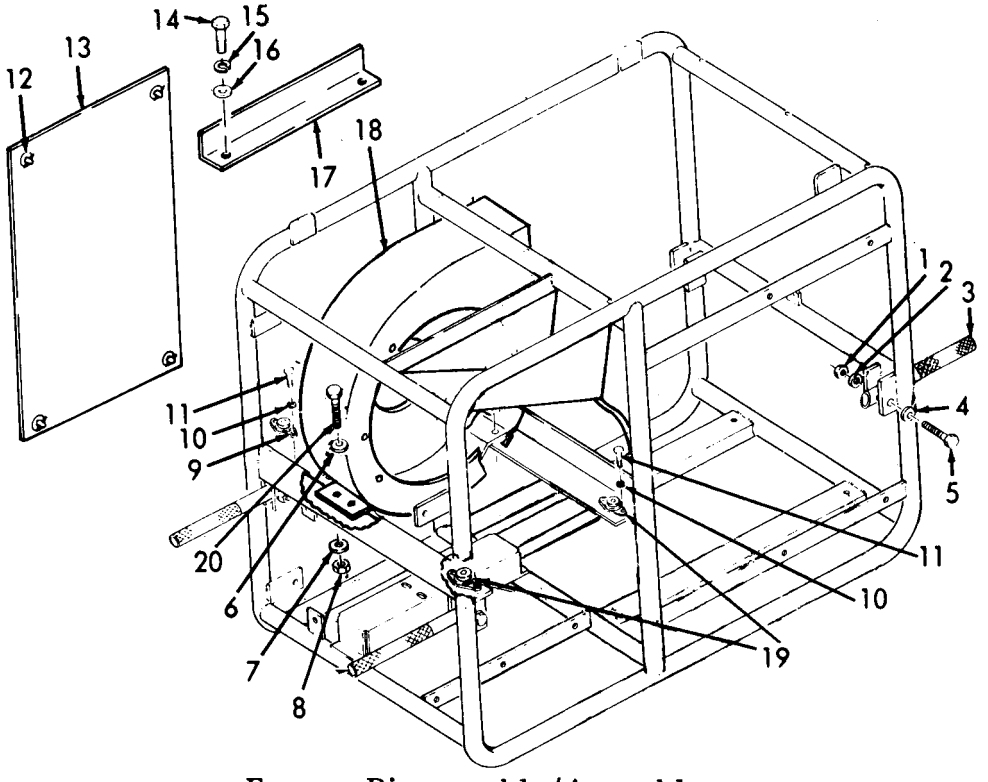
(8) Install inlet (TM 3-4230-218-12&P).

(9) Install water outlet assembly (TM 3-4230-218-12&P).

(10) Install control panel (page 2-75).

(11) Install heat exchanger (page 2-50).

(12) Install engine and fan assembly (page 2-24).



Frame, Disassembly/Assembly.

2-16. PREPARATION FOR STORAGE OR SHIPMENT.

Refer to TM 3-4230-218-12&P for the procedures required to prepare the Decontaminating Apparatus for storage or shipment.

APPENDIX A

REFERENCES

A-1. SCOPE.

This appendix lists all forms, pamphlets, and technical manuals referenced in this manual.

A-2. FORMS.

Quality Deficiency Report SF-368
Recommended Changes to DA Publications . . . . . .DA Form 2028-2
Recommended Changes to Publications and Blank Forms . . . . . DA Form 2028
Report of Discrepancy (ROD) SF-364

A-3. PAMPHLETS.

The Army Maintenance Management Update . . . . . .DA PAM 738-750

A-4. TECHNICAL MANUALS.

Destruction of Chemical Weapons and Defense Equipment to Prevent Enemy Use . . . . . .TM 43-0002-31
Operator and Organizational Maintenance Manual for the Portable Power Driven Decontaminating Apparatus . . . . . TM3-4230-218-12&P
Painting Instructions for Field Use . . . . . .TM 43-0139

A-5. OTHER PUBLICATIONS.

Army Medical Department Expendable/Durable Items CTA-100
Expendable Items (Except Medical Class V Repair Parts and Heraldic Items) . . . . . CTA 50-970
First Aid for Soldiers. . . . . .FM 21-11

APPENDIX B

DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section. I. INTRODUCTION

1. Scope.
This RPSTL lists authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of organizational, direct support and general support maintenance of the Decontaminating Apparatus: Power-Driven, Portable, Type A/E32U-8. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

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 composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence. 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 illustrations)/figure(s).

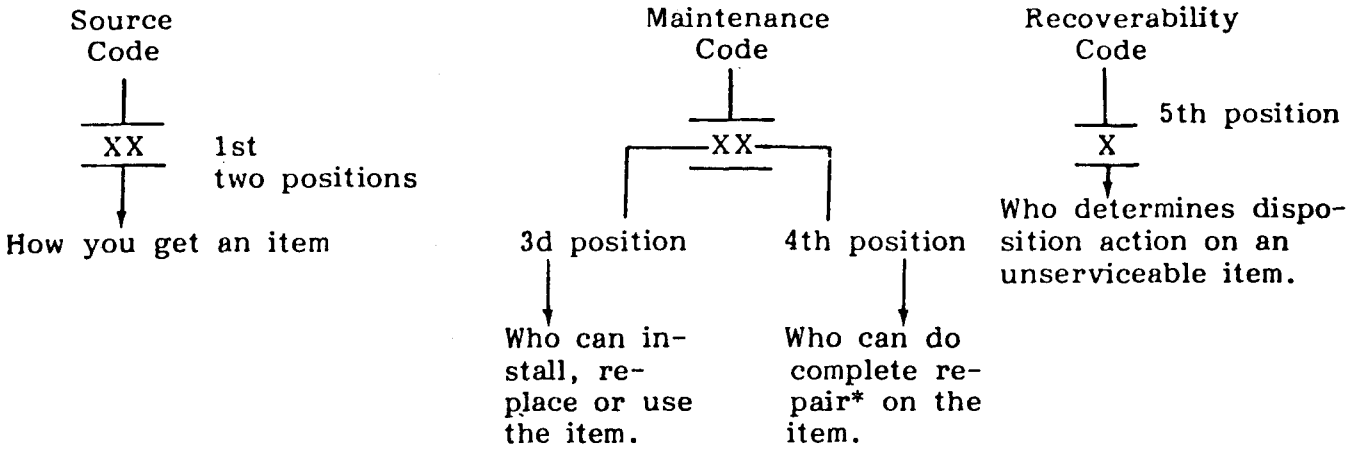
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

c. Section IV. National Stock Number and Part Number Index. A list, in National item identification number (NIIN) sequence, of all National stock numbered items appearing in the 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 figure and item number appearance.

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 to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

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.

	Explanation
MO-(Made at org/AVUM Level) MF-(Made at DS/AVUM Level) MH-(Made at GS Level) ML-(Made at Specialized Repair Activity (SRA))	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 of the repair parts list in the 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.

Code	Explanation
MD-(Made at Depot) AO-(Assembled by org/ AVUM Level) AF-(Assembled by DS/AVIM Level) AH-(Assembled by 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 items are assembled at a higher level, order the item from the higher level of maintenance.

	Explanation
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 riot stocked. Order an "XD" coded item through normal supply channels using the FSCM and part number given, if no NSN is available.	

NOTE: Cannibalization or controlled exchange, when authorized, may be used as a source of supply 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 tells 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 the following levels of maintenance.

Code	Application/Explanation
C	-Crew or operator maintenance done within organizational or aviation unit maintenance.
O	-Organizational or aviation unit category can remove, replace, and use the item.

Code	Application/Explanation
F	-Direct support or aviation intermediate level can remove, replace, and use the item.
H	-General support level can remove, replace, and use the item.
L	-Specialized repair activity can remove, and use the item.
D	-Depot level can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions.) (NOTE: Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.) This position will contain one of the following maintenance codes.

Code	Application/Explanation
O	-Organizational or (aviation unit) is the lowest level that can do complete repair of the item.
F	-Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
H	-General support is the lowest level that can do complete repair of the item.
L	-Specialized repair activity (designate the specialized repair activity) is the lowest level that can do complete repair of the item.
D	-Depot is the lowest level that can do complete repair of the item.
Z	-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 organizational or aviation unit level.
F	-Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support or aviation intermediate level.
H	-Reparable item. When uneconomically reparable, condemn and dispose of the item at the 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 (FSC) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

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

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

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

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

(2) Not applicable.

(3) Items that are included in kits and sets are listed below the name of the kit or set.

(4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.

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

(6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).

(7) The usable on code, when applicable (see paragraph 5, Special information).

(8) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.

(9) 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.

4. Explanation of Columns (Sect. IV).

a. NATIONAL STOCK NUMBER (NSN) INDEX.

(1) STOCK NUMBER column. This column lists the NSN by National Item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN (i.e., (5305-01-674-1467). When using this column 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.

NSN

NIIN

(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 arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

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

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

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

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

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

5. Special Information. Use the following subparagraphs as applicable:

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 codes to be manufactured or fabricated are found in Appendix D, TM 3-4230-218-30&P.

b. ASSEMBLY INSTRUCTION. Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in TM 3-4230-218-12&P. Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

c. KITS. Line item entries for repair parts kits smear in a group in Section II (see table of contents).

d. INDEX NUMBERS. Items which have the word BULK in the figure column will have an index number in the item number column. This index number is a cross-reference between the National Stock Number/Part Number Index and the bulk material list in Section II.

6. How to Locate Repair Parts.

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

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

(2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.

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

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

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

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

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

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

7. Abbreviations.

Abbreviations	Explanation
BKDN	Breakdown

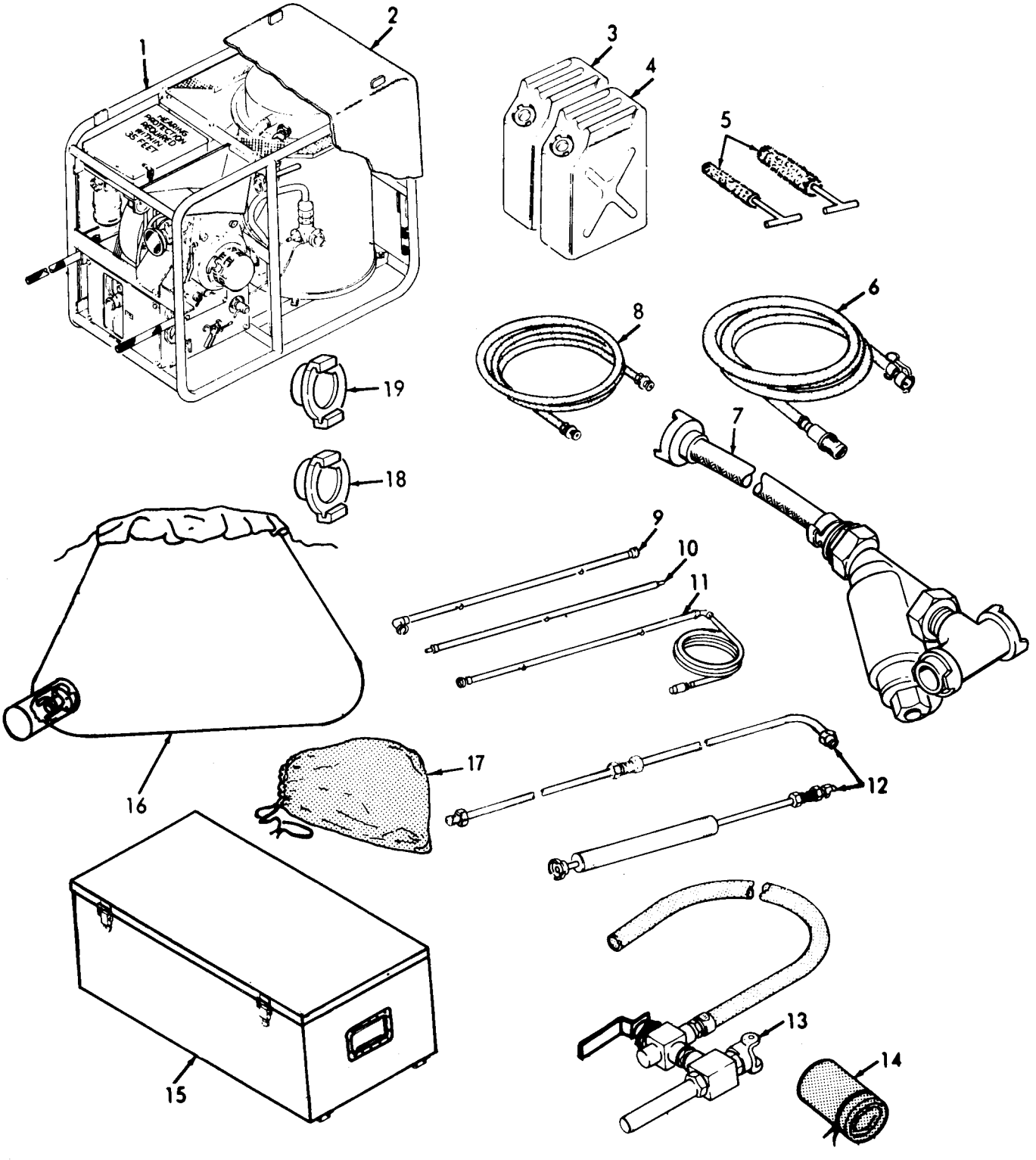


Figure B-1. Decontaminating Apparatus and Water Tank.

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) ITEM NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 00: PORTABLE POWER DRIVEN DECONTAMINATING APPARATUS GROUP 01: WATER TANK	
				FIG. B-1 DECONTAMINATING APPARATUS AND WATER TANK	
1	XAFFF	90598	26100-102	DECONTAMINATING APPARATUS	1
2	PAOZZ	90598	26080-100	COVER,ACCESS	1
3	XDOZZ	90598	26006-100	CAN,FUEL	1
4	XDOZZ	90598	26005-100	CAN,FUEL,HEATER	1
5	XDOZZ	90598	26071-100	BRUSH SET	1
6	AOOOO	90598	26650-100	HOSE ASSY,SUCTIION SEE FIG. -17 ASSY BKDN	1
7	AOOOO	90598	26660-102	HOSE ASSY,BRANCH SEE FIG. 18 ASSY BKDN	1
8	XDOOO	90598	26670-102	HOSE,PRESSURE,MAIN SEE FIG. 19 ASSY BKDN	2
9	PAOOO	90598	26041-100	SHOWER ASSEMBLY,DEC	2
10	PAOOO	90598	26042-100	SHOWER ASSEMBLY	2
11	PAOOO	90598	26043-100	SHOWER ASSEMBLY	2
12	PAOOO	90598	26020-100	JET ASSEMBLY	1
13	PAOOO	90598	26010-100	INJECTOR ASSEMBLY	1
14	AOOOO	90598	26070-100	TOOL KIT SEE FIG. 15 ASSY BKDN	1
15	PAOOO	90598	26060-100	CASE,ACCESSORY STOR	1
16	XDOZZ	90598	26090-101	TANK,WATER	1
17	XDOZZ	90598	26090-7	KIT,REPAIR,TANK,CONSISTS OF: 3CLAMPS,PATCH(4"X72"),22 PATCHES-10(3"),6(4"),6(5")	1
18	XDOZZ	90598	26000-23	ORIFICE,TEST 5MM	1
19	XDOZZ	90598	26000-24	ORIFICE,TEST 10MM	1
				END OF FIGURE	

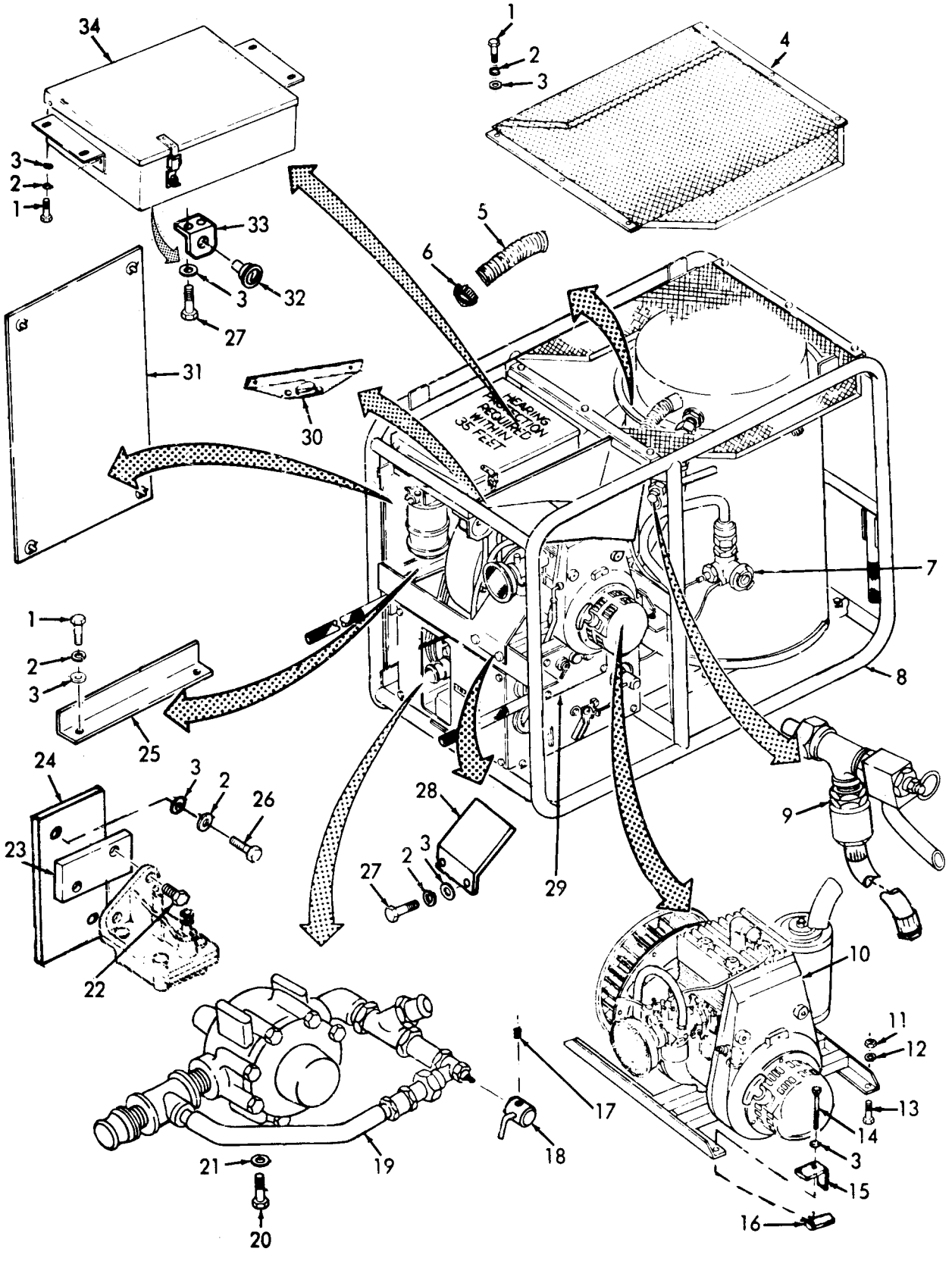


Figure B-2. Decontaminating Apparatus (Sheet 1 of 3).

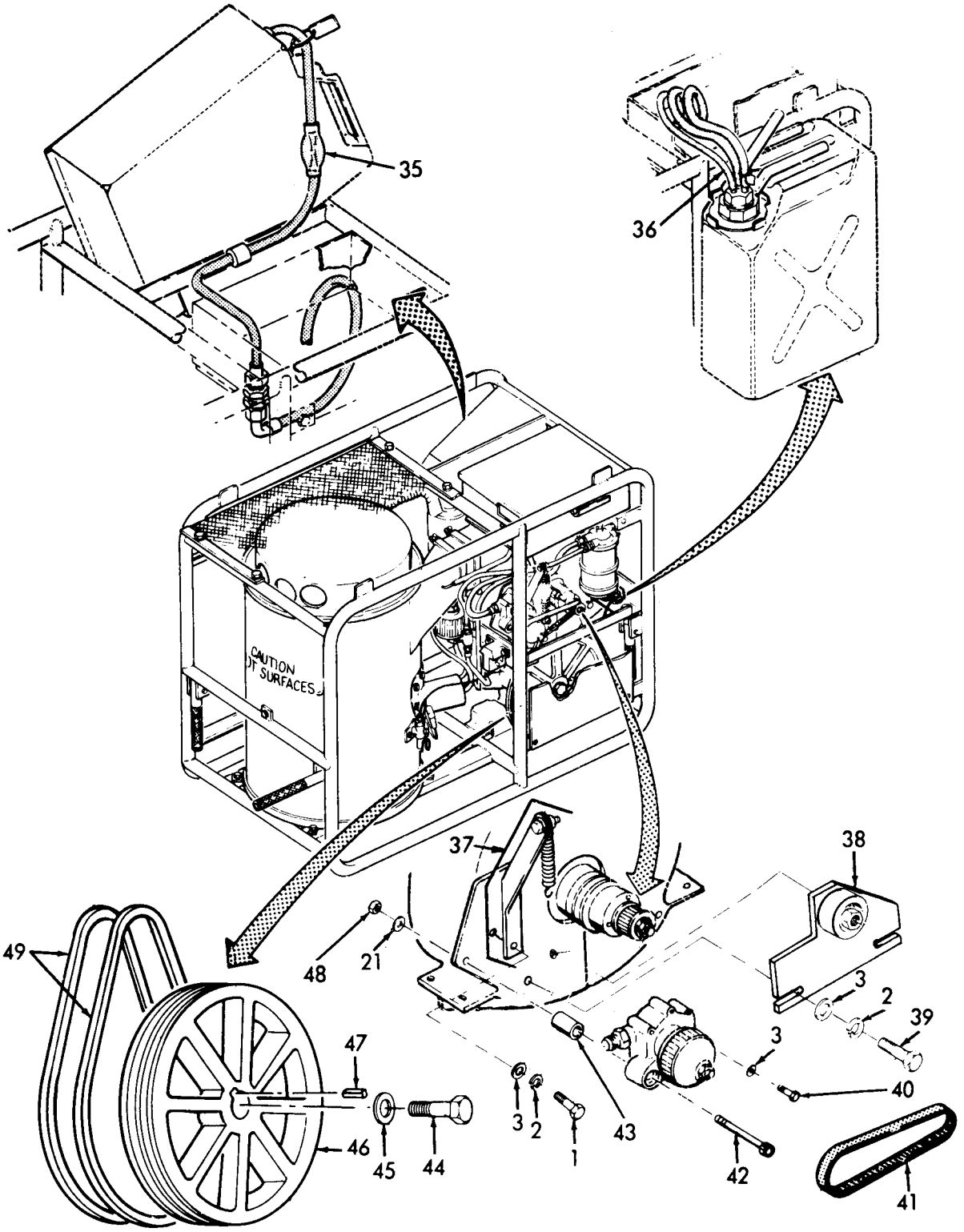


Figure B-2. Decontaminating Apparatus (Sheet 2 of 3).

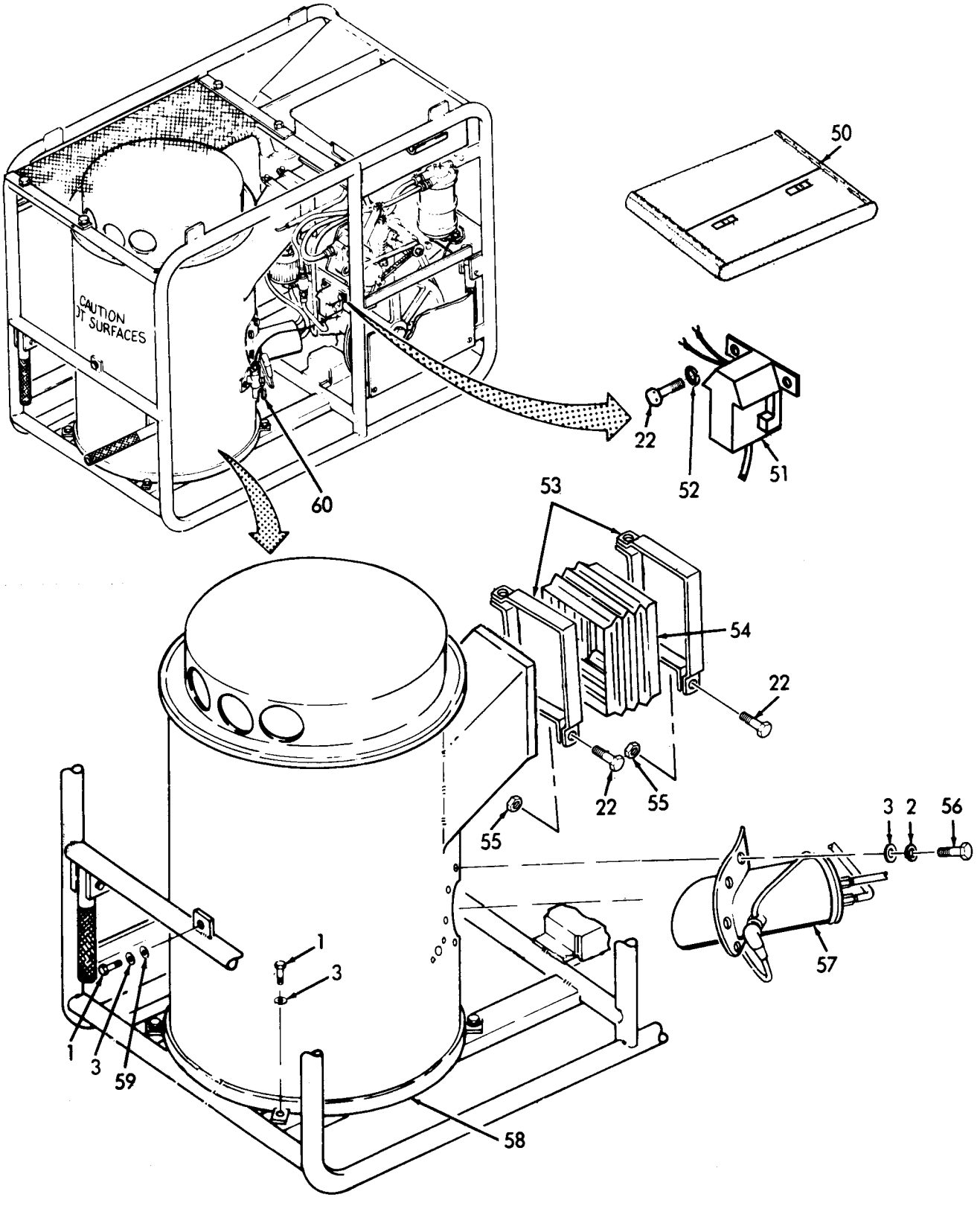


Figure B-2. Decontaminating Apparatus (Sheet 3 of 3).

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 02: DECONTAMINATING APPARATUS	
				FIG. B-2 DECONTAMINATING APPARATUS	
1	PAOZZ	90598	26703-507	BOLT	15
2	PAOZZ	96906	MS35333-135	WASHER,LOCK	28
3	PAOZZ	96906	MS27183-9	WASHER,FLAT	34
4	PAOZZ	90598	26510-100	GUARD ASSEMBLY	1
5	XDOZZ	39248	5241K57	HOSE,METALLIC,FLEX	1
6	XDOZZ	96906	MS35842-126	CLAMP, HOSE	1
7	XDOZZ	90598	26270-101	OUTLET ASSY	1
8	XAFFF	90598	26500-102	FRAME ASSEMBLY	1
9	XDFZZ	90598	26260-100	INLET ASSY	1
10	AFFFF	90598	26520-100	ENGINE AND FAN ASSY SEE FIG B-3 ASSY BKDN	1
11	PAFZZ	90598	26705-500	NUT,SELF-LOCKING,HE	4
12	PAFZZ	96906	S35333-35	WASHER,LOCK	4
13	PAFZZ	90598	26506-1	BOLT	4
14	XDOZZ	90598	26703-572	BOLT	4
15	XDOZZ	90598	26002-1	BRACKET	2
16	XDOZZ	90598	26001-1	SPACER	2
17	XAOZZ	96906	MS51964-136	SET-SCREW,HEX SOCKT	1
18	XAOZZ	90598	26254-1	HANDLE,VALVE	1
19	PAFZZ	90598	26250-100	WATER INLET ASSEMBL	1
20	XDFZZ	90598	26703-709	BOLT,HEX-HD M8-20	4
21	PAOZZ	96906	MS27183-12	WASHER,FLAT	5
22	PAOZZ	90598	26703-407	BOLT	5
23	PAOZZ	90598	26291-1	SHIM	1
24	PAOZZ	90598	26292-1	BRACKET,PUMP	1
25	XDFZZ	90598	26580-1	ANGLE	1
26	PAOZZ	90598	26703-508	BOLT	2
27	PAOZZ	90598	26703-505	BOLT,MACHINE	4
28	XDOZZ	90598	26530-1	PLATE,DRAIN	1
29	AFFFF	90598	26610-100	CONTROL PANNEL ASSY SEE FIG 14 ASSY BKDN	1
30	PAOZZ	90598	26003-1	BRACKET,SHIPPING	1
31	XAOZZ	90598	26600-101	PANEL ASSY,SIDE	1
32	PAOZZ	62887	RZ52H	METER,TIME TOTALIZI	1
33	XDOZZ	90598	26540-1	BRACKET	1
34	XAOOO	90598	26570-100	TOOL BOX WITH COVER	1
35	AOOOO	90598	26300-100	FUEL SYSTEM,ENGINE SEE FIG 7 ASSY BKDN	1
36	AFFFF	90598	26400-100	FUEL SYSTEM,BURNER SEE FIG 11 ASSY BKDN	1
37	AFFFF	90598	26462-100	TENSIONER,FUEL BELT SEE FIG 12 ASSY BKDN	1
38	PAOZZ	90598	26230-100	TENSIONER,BELT,PUMP	1
39	PAOZZ	90598	26703-509	BOLT	2
40	PAOZZ	95098	26706-87	SCREW	1

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
41	PAOZZ	81300	160ZL037	BELT,POSITIVE DRIVE	1
42	PAOZZ	90598	26707-719	SCREW	1
43	XDOZZ	90598	26467-1	SPACER,SLEEVE	1
44	PAOZZ	90598	26703-809	BOLT	1
45	PAOZZ	90598	26701-2	WASHER	1
46	PAOZZ	90598	26240-1	PULLEY,GROOVE	1
47	PAOZZ	15526	6885-7-8-25	KEY,MACHINE	1
48	PAOZZ	90598	26705-700	NUT,SELF-LOCKING,HE	1
49	PAOZZ	96906	MS39277-045	BELT,V	2
50	XDOZZ	90598	26004-1	POUCH (FOR ENGINE RESTRAINT BRACKETS)	1
51	PAOZZ	90598	26430-100	IGNITER ASSEMBLY	1
52	PAOZZ	96906	MS27183-8	WASHER,FLAT	2
53	PAOZZ	90598	26560-1	CLAMP	4
54	PAOZZ	90598	26545-1	HOSE,AIR DUCT	1
55	PAOZZ	90598	26705-400	NUT,SELF-LOCKING	4
56	PAOZZ	90598	26708-505	BOLT	8
57	AOOOO	90598	26450-100	BURNER ASSEMBLY,DEC SEE FIG 8 ASSY BKDN	1
58	PAFFF	90598	26200-100	HEAT EXCHANGER ASSE	1
59	PAOZZ	90598	26701-1	WASHER,FLAT	1
60	PAOOO	90598	26470-100	PHOTOCELL ASSEMBLY	1

END OF FIGURE

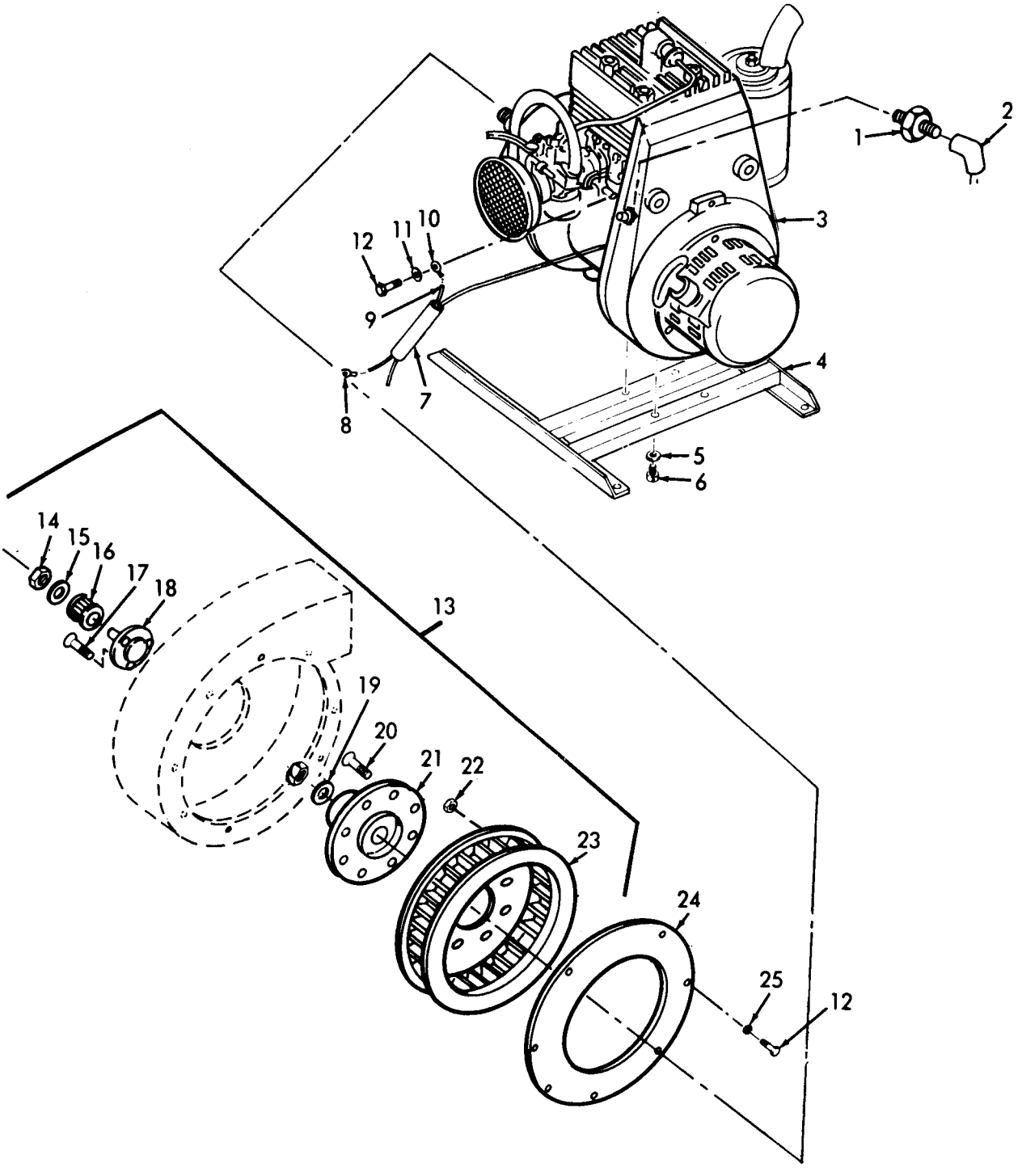


Figure B-3. Engine and Fan Assembly.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 0201: GASOLINE ENGINE AND FAN	
				GROUP 020101: CENTRIFUGAL FAN	
				FIG. B-3 ENGINE AND FAN ASSY	
1	XDFZZ	N1384	EV282BX1/4X1/4	NIPPLE,PIPE	1
2	PAFZZ	N1384	392X4X4	ELBOW,N	1
3	PAFFF	D0345	002-80-197-500	ENGINE,GASOLINE	1
4	PAFZZ	90598	26521-100	MOUNT	1
5	PAFZZ	96906	MS35333-75	WASHER,LOCK	4
6	XDFZZ	90598	26707-707	SCREW,SOCKET-HD 8M	4
7	MFFZZ	90598	26520-12	SLEEVE,INSULATING MAKE FROM SLEEVE P/N MILI23053-8	1
8	XDFZZ	21340	3260620	TERMINAL,LUG	2
9	MFFZZ	90598	26520-13	WIRE,GREEN MAKE FROM WIRE P/N M5086-1-18-5	1
10	PAFZZ	96906	MS25036-154	TERMINAL,LUG	1
11	PAFZZ	96906	MS35333-135	WASHER,LOCK	5
12	PAFZZ	90598	26703-507	BOLT	5
13	PAFFF	90598	26524-100	FAN,CENTRIFUGAL	1
14	PAFZZ	90598	26705-800	NUT,SELF-LOCKING,HE	1
15	PAFZZ	90598	26711-800	WASHER,LOCK	1
16	PAFZZ	90598	26527-1	DRIVE,FUEL PUMP	1
17	PAFZZ	90598	26712-304	SCREW,FLAT HD	3
18	PAFZZ	90598	26528-1	SHAFT,SHOULDERED	1
19	PAFZZ	90598	26701-3	WASHER,FLAT	1
20	XDFZZ	90598	26709-504	SCREW,FLAT-HD CSK	8
21	PAFZZ	90598	26526-1	HUB,BODY	1
22	PAFZZ	90598	26705-500	NUT,SELF-LOCKING,HE	8
23	XAFZZ	90598	26525-1	IMPELLER,FAN	1
24	XDFZZ	90598	26523-1	FLANGE,FAN HOUSING	1
25	PAFZZ	96906	MS27183-9	WASHER,FLAT	4
				END OF FIGURE	

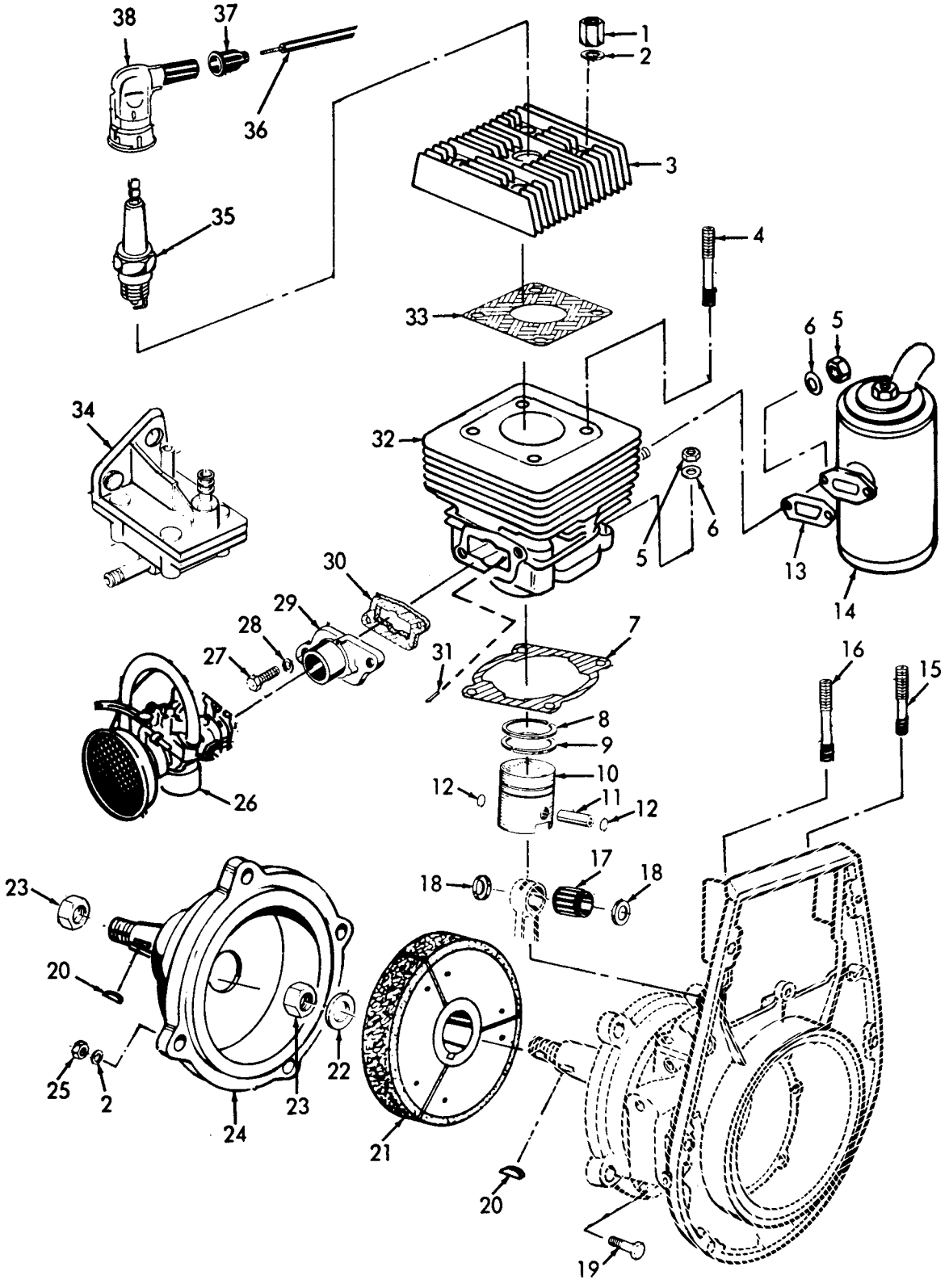


Figure B-4. Gasoline Engine Assembly (Sheet 1 of 2).

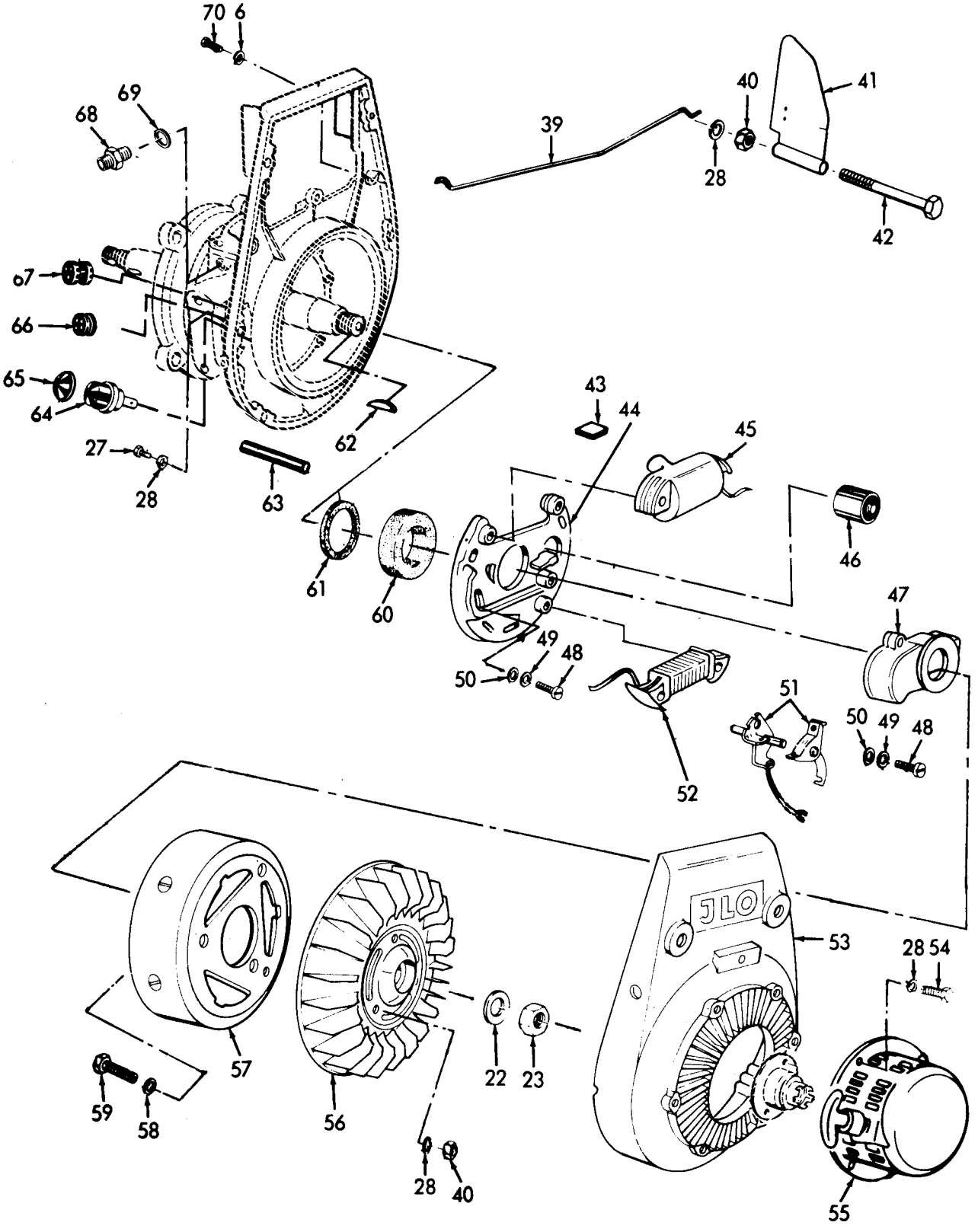


Figure B-4. Gasoline Engine Assembly (Sheet 2 of 2).

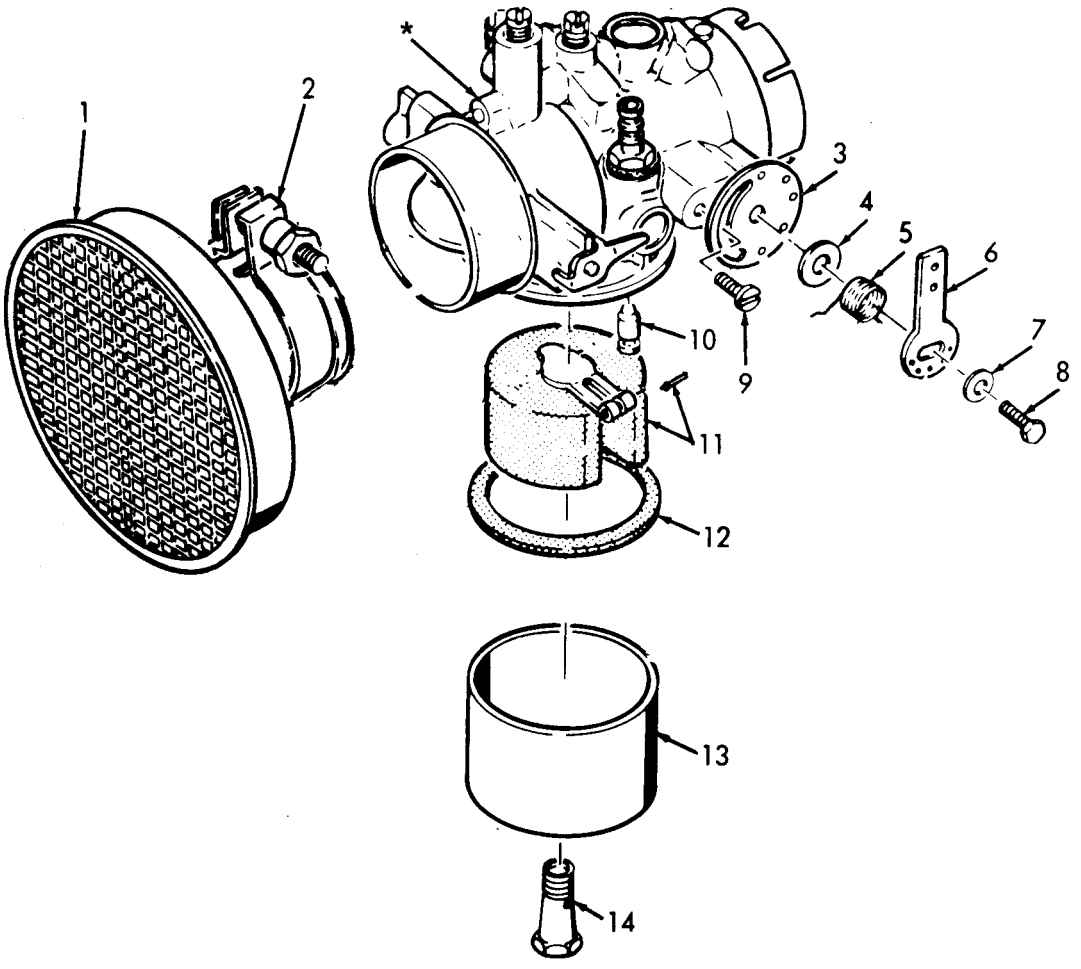
SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 020102: GASOLINE ENGINE ASSEMBLY	
				FIG. B-4 GASOLINE ENGINE ASSEMBLY	
1	PAFZZ	90598	195-07-013-000	NUT	4
2	XDFZZ	D0345	000-40-645-100	WASHER,LOCK	8
3	PAFZZ	D0345	197-07-015-100	CYLINDER HEAD,GASOL	1
4	PAFZZ	D0345	000-41-271-160	STUD	4
5	XDFZZ	D0345	000-41-970-100	NUT,HEXAGON,8M	6
6	XDFZZ	D0345	000-40-645-080	WASHER,LOCK	8
7	PAFZZ	90598	197-07-002-200	GASKET	1
8	PAFZZ	D0345	000-42-144-770	RING,PISTON	1
9	PAFZZ	D0345	000-42-142-800	RING,PISTON	1
10	PAFZZ	D0345	197.05.903.000	PISTON,INTERNAL COM	1
11	PAFZZ	D0345	197-05-002-000	PIN,PISTON	1
12	PAFZZ	D0345	000-40-621-250	CLIP,WRIST PIN	2
13	PAFZZ	D0345	197-07-022-000	GASKET	1
14	PAFZZ	D0345	197-29-809-000	MUFFLER,EXHAUST	1
15	XDFZZ	D0345	000-41-270-920	STUD,CYLINDER	2
16	XDFZZ	D0345	000-41-270-970	STUD,CYLINDER	2
17	XDFZZ	D0345	000-39-114-230	BEARING, NEEDLE	1
18	XDFZZ	D0345	197-05-003-100	PLATE,CHECK	2
19	XAFZZ	D0345	000-41-011-240	SCREW,HX-HD 10M	4
20	XAFZZ	D0345	000-40-840-630	KEY,WOODRUFF	2
21	PAFZZ	D0345	409-49-420-000	CLUTCH ASSEMBLY,FRI	1
22	XDFZZ	D0345	000-40-645-160	WASHER,LOCK	2
23	XDFZZ	D0345	000-41-951-050	NUT,HEXAGON 16M	2
24	XDFZZ	D0345	197-59-801-000	HOUSING,CLUTCH	1
25	XAFZZ	D0345	000-41-970-110	NUT,HEXAGON,10M	4
26	PAFFF	D0345	197-18-817-300	CARBURETOR,FLOAT	1
27	XAFZZ	D0345	000-41-010-710	SCREW,HEX-HEAD 6M	6
28	XDFZZ	D0345	000-40-645-060	WASHER,LOCK	7
29	PAFZZ	D0345	197-07-023-100	PIPE,INTAKE	1
30	PAFZZ	D0345	197-07-020-000	GASKET	1
31	PAFZZ	D0345	000-40-302-270	PIN,STRAIGHT,HEADLE	1
32	PAFZZ	D0345	197-07-804-100	CYLINDER,ENGINE,GAS	1
33	PAFZZ	D0345	197-07-026-000	GASKET	1
34	PAOZZ	D0345	002-46-903-000	PUMP,FUEL,CAM ACTUA	1
35	XDOZZ	11583	RL87YC	PLUG,SPARK	1
36	XAOZZ	D0345	002-44-151-000	WIRE,HIGH TENSION	1
37	XAOZZ	D0345	002-44-465-900	SLEEVE,INSULATION	1
38	XDOZZ	D0345	002-44-306-400	CAP,SPARKPLUG	1
39	PAFZZ	D0345	197-15-004-100	LINKAGE ROD	1
40	XDFZZ	D0345	000-41-970-080	NUT,HEXAGON 6M	4
41	PAFZZ	D0345	197-15-805-000	VANE,AIR,GOVERNOR	1
42	XAFZZ	D0345	000-41-060-450	SCREW,HEX HD	1
43	PAFZZ	D0345	000-43-063-120	FELT,MECHANICAL,PRE	1
44	PAFZZ	D0345	000-43-053-720	PLATE,ARMATURE	1
45	PAFZZ	D0345	000-43-055-700	COIL,IGNITION	1
46	PAFZZ	D0345	000-43-065-350	CAPACITOR	1
47	PAFZZ	D0345	002-44-090-920	CAP,PROTECTIVE,DIRT	1

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
48	XAFZZ	D0345	000-41-500-990	SCREW,ROUND-HEAD 4M	5
49	XAFZZ	D0345	000-40-645-040	WASHER,LOCK	4
50	XAFZZ	D0345	000-40-510-050	WASHER,FLAT	4
51	PAFZZ	D0345	000-43-062-340	CONTACT SET,DISTRIB	1
52	PAFZZ	D0345	000-43-084-010	COIL,STARTING	1
53	PAFZZ	D0345	197-14-015-210	COVER,FAN	1
54	XDOZZ	D0345	000-41-010-680	SCREW,HEX-HEAD 6M	4
55	PAOFF	D0345	197-41-834-000	STARTER,ENGINE,HAND	1
56	XDFZZ	D0345	197-14-009-210	HOUSING,CLUTCH	1
57	PAFZZ	D0345	000-43-051-240	FLYWHEEL,ENGINE	1
58	XAFZZ	D0345	000-40-675-270	WASHER,STAR A6	3
59	XAFZZ	D0345	000-41-010-700	SCREW,HEX-HEAD 6M	3
60	PAFZZ	90598	000-35-010-040	WASHER	1
61	XAFZZ	D0345	102-41-719-000	RING	1
62	XAFZZ	D0345	000-40-890-200	KEY,WOODRUFF	1
63	XAFZZ	D0345	002-44-469-900	GROMMET	1
64	PAFZZ	D0345	002-44-329-000	SWITCH,PUSH	1
65	PAFZZ	D0345	102-11-329-000	CAP,BUTTON	1
66	XAFZZ	D0345	002-44-435-900	GROMMET	1
67	XAFZZ	D0345	002-44-445-900	GROMMET	1
68	PAFZZ	D0345	002-45-360-900	ADAPTER,STRAIGHT,HO	1
69	XDFZZ	D0345	000-35-000-700	GASKET,RING	1
70	XAFZZ	D0345	000-41-010-940	SCREW,HEX-HD 8M	2

END OF FIGURE



*** No further disassembly authorized.**

Figure B-5. Carburetor.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 02010201: CARBURETOR	
				FIG. B-5 CARBURETOR	
1	PAOZZ	D0345	002-46-809-000	AIR CLEANER,INTAKE	1
2	XDOZZ	D0345	102-20-069-000	CLAMP	1
3	XDFZZ	D0345	002-45-051-000	WASHER,ADJUSTING	1
4	XAFZZ	D0345	002-45-033-900	WASHER,PLAIN	1
5	XAFZZ	D0345	002-45-041-900	SPRING,HELICAL	1
6	PAFZZ	D0345	002-45-575-000	LEVER,REMOTE CONTRO	1
7	XDFZZ	D0345	002-45-616-770	WASHER	1
8	XDFZZ	D0345	002-45-403-160	SCREW,HEX-HEAD	1
9	XDFZZ	D0345	000-41-500-820	SCREW,ROUND-HEAD	1
10	PAFZZ	D0345	002-45-470-320	NEEDLE,FLOAT	1
11	PAFZZ	D0345	002-45-352-180	FLOAT,CARBURETOR	1
12	PAOZZ	D0345	002-45-087-900	GASKET	1
13	XDOZZ	D0345	002-45-123-000	BOWL,CARBURETOR	1
14	PAOZZ	D0345	002-45-070-000	JET GAS	1
				END OF FIGURE	

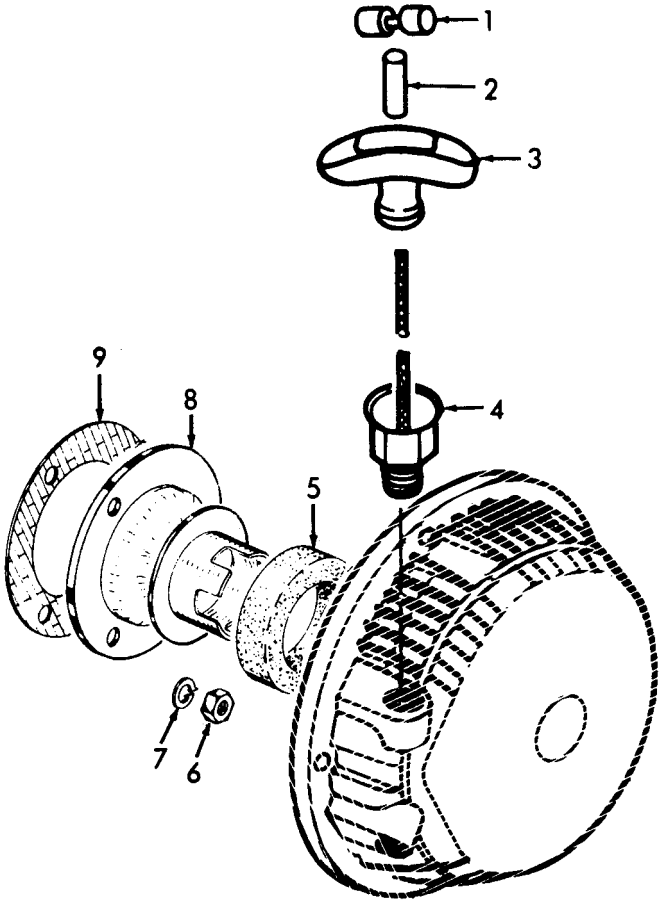


Figure B-6. Starter.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 02010202: STARTER	
				FIG. B-6 STARTER	
1	PAFZZ	D0345	102-41-299-100	BOLT	1
2	PAFZZ	D0345	102-41-309-200	BUSHING N	1
3	PAFZZ	D0345	102-41-279-000	HANDLE	1
4	XDFZZ	D0345	102-41-469-000	BUSHING,ROPE	1
5	PAFZZ	D0345	102-41-719-000	RING	1
6	XAFZZ	D0345	000-41-970-080	NUT	3
7	XDFZZ	D0345	000-40-645-060	WASHER,LOCK	3
8	XDFZZ	D0345	197-41-812-000	CARRIER	1
9	PAFZZ	D0345	102-41-729-000	GASKET	1
				END OF FIGURE	

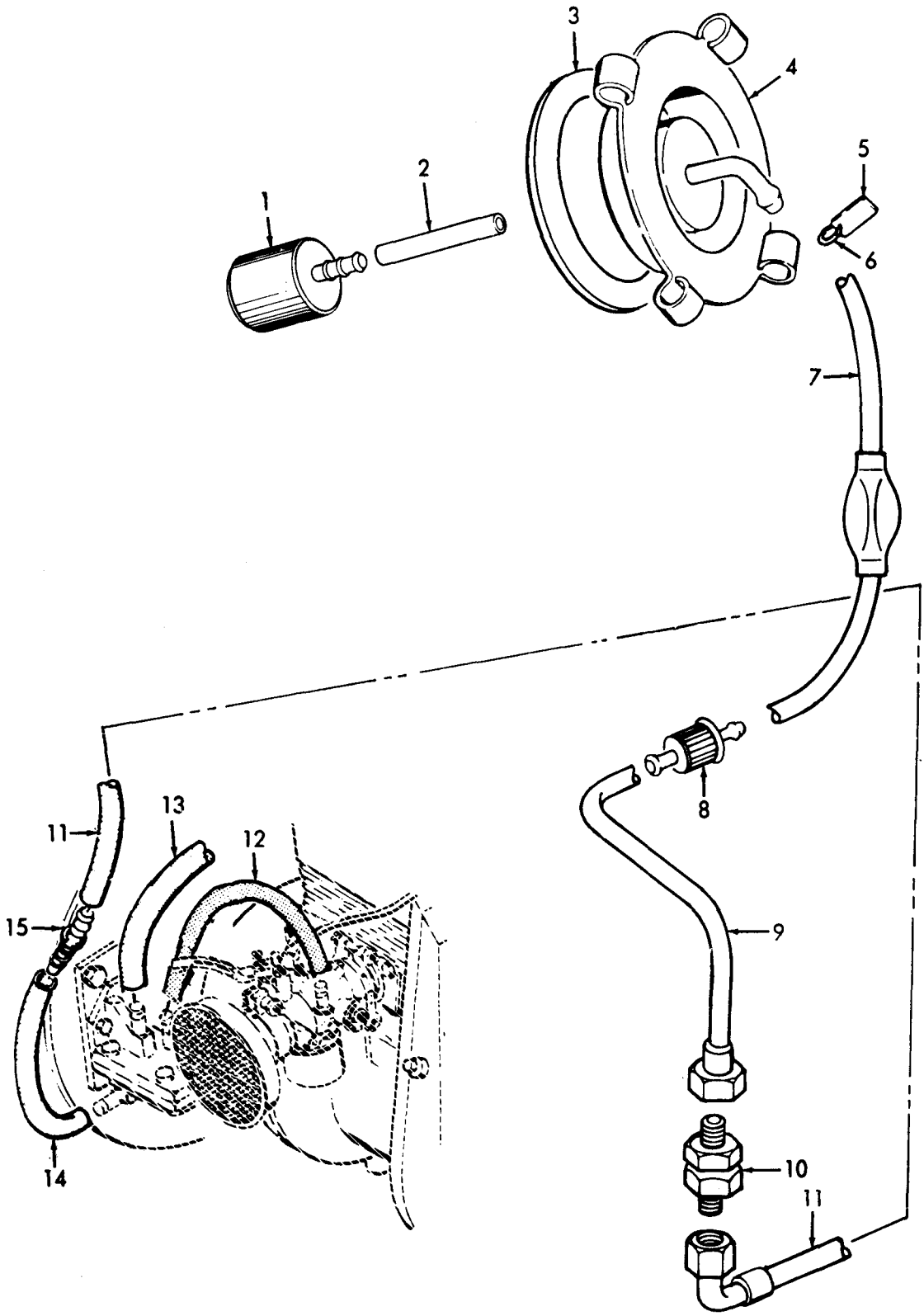


Figure B-7. Engine Fuel System.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 0202: ENGINE FUEL SYSTEM	
				FIG. B-7 ENGINE FUEL SYSTEM	
1	PAOZZ	90598	26305-1	STRAINER,SEDIMENT	1
2	PAOZZ	90598	26306-1	HOSE,NONMETALLIC	1
3	PAOZZ	56926	11910	GASKET	1
4	PAOZZ	90598	26302-100	LID ASSEMBLY,FUEL C	1
5	XDOZZ	90598	26314-1	TAG,FUEL INFORM	1
6	PAOZZ	59730	ET5M	STRAP,RETAINING	1
7	PAOZZ	95098	26307-100	PUMP,BALL ASSEMBLY	1
8	PAOZZ	N0844	05-02-05	FILTER,FLUID	1
9	PAOZZ	90598	26310-1	HOSE ASSEMBLY,NONME	1
10	PAOZZ	N1384	286BX1/4	NIPPLE,PIPE	1
11	PAOZZ	90598	26313-1	HOSE ASSEMBLY,NONME	1
12	PAOZZ	90598	26311-1	HOSE,NONMETALLIC	1
13	PAOZZ	90598	26312-1	HOSE,NONMETALLIC	1
14	PAOZZ	90598	26316-1	HOSE,NONMETALLIC	1
15	PAOZZ	90598	26315-1	MENDER,HOSE	1
				END OF FIGURE	

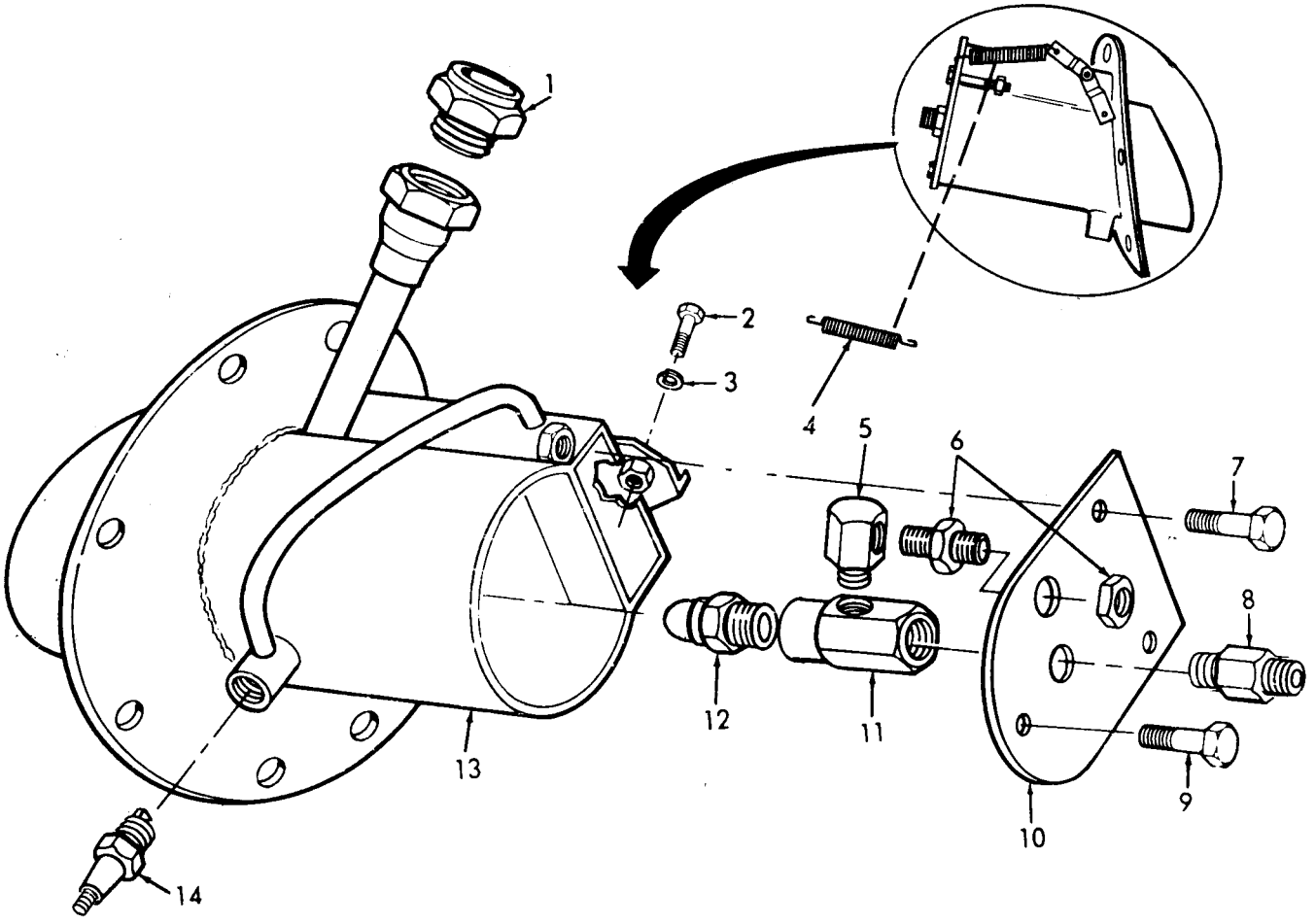


Figure B-8. Burner.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 0203: BURNER	
				FIG. B-8 BURNER	
1	PAOZZ	70673	P75	WINDOW,OBSERVATION	1
2	PAOZZ	90598	26703-507	BOLT	1
3	PAOZZ	96906	MS27183-9	WASHER,FLAT	1
4	PAOZZ	84830	LE-049D-6SS	SPRING,HELICAL,EXTE	1
5	XDOZZ	N1384	394X1/4X1/8	ELBOW,PIPE	1
6	XDOZZ	N1384	286BX1/4	NIPPLE,PIPE	1
7	PAOZZ	90598	26708-514	BOLT	2
8	XDOZZ	N1384	EV282BX1/4X1/4	NIPPLE,PIPE	1
9	PAOZZ	90598	26708-509	BOLT	1
10	PAOZZ	90598	26452-1	LID,BURNER ASSEMBLY	1
11	XDOZZ	76444	H730C	HOLDER,FUEL JET	1
12	XDOZZ	76444	F80BPS-12GPH-60DEG	NOZZLE,OIL BURNER,P	1
13	PAFZZ	90598	26451-100	BURNER WELDMENT	1
14	XDOZZ	11583	RL87YC	PLUG,SPARK	1
				END OF FIGURE	

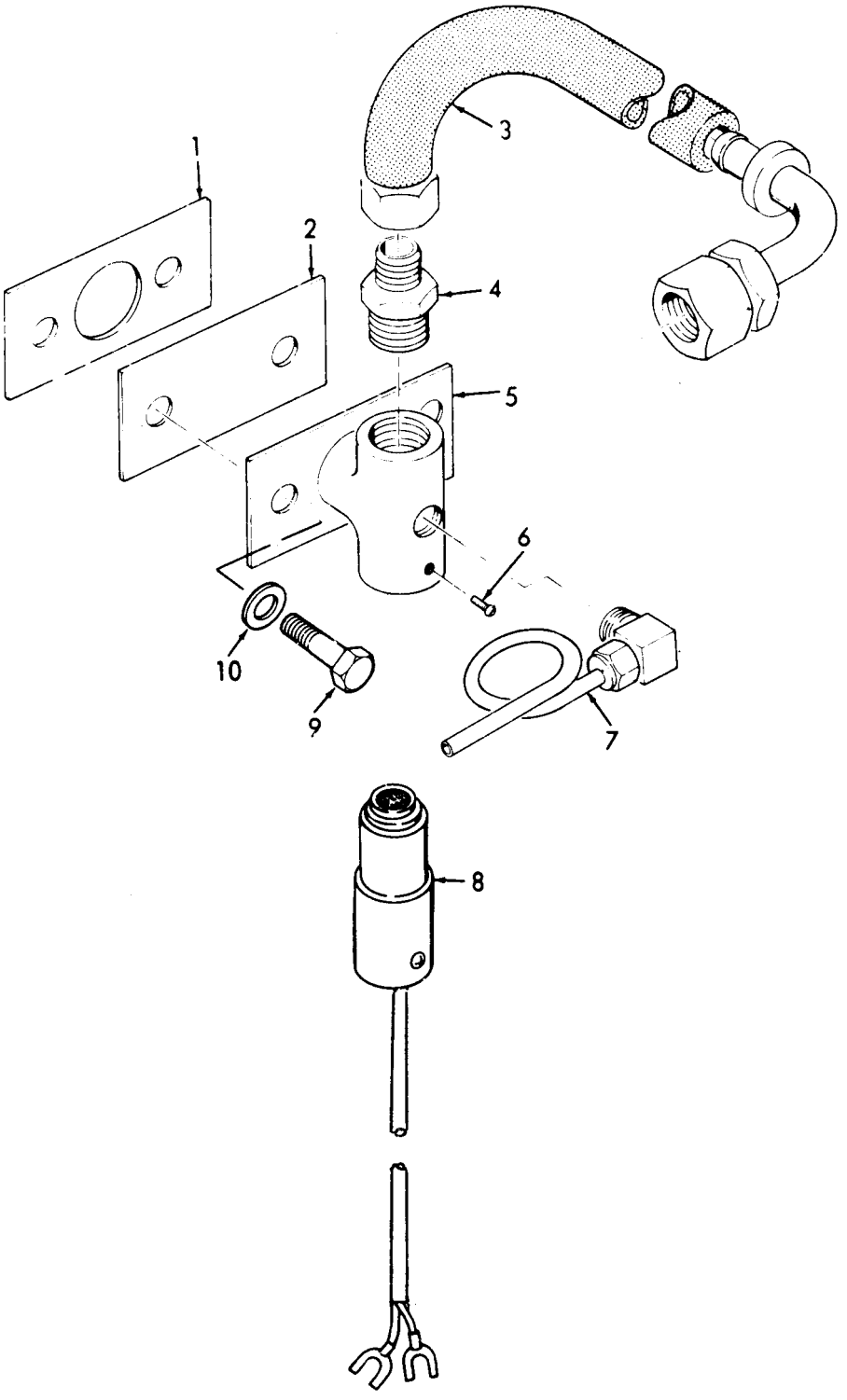


Figure B-9. Photocell.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 0204: PHOTOCELL	
				FIG. B-9 PHOTOCELL	
1	XDOZZ	90598	26478-1	PLATE,BACKUP CELL	1
2	PAOZZ	90598	26473-1	MICA WINDOW	1
3	PAOZZ	90598	26474-1	HOSE ASSEMBLY,NONME	1
4	XAOZZ	N1384	EV283X1/4X3/8	NIPPLE,3-8X1-4 BSP	1
5	XAOZZ	90598	26477-100	HOUSING,TEE	1
6	PAOZZ	90598	26702-1	SCREW,SELF-LOCKING	1
7	PAOZZ	90598	26475-100	AIR VENT ASSEMBLY	1
8	PAOZZ	N0844	MPY12H49	PHOTOELECTRIC CELL	1
9	PAOZZ	90598	26703-505	BOLT,MACHINE	2
10	PAOZZ	96906	MS27183-9	WASHER,FLAT	2
				END OF FIGURE	

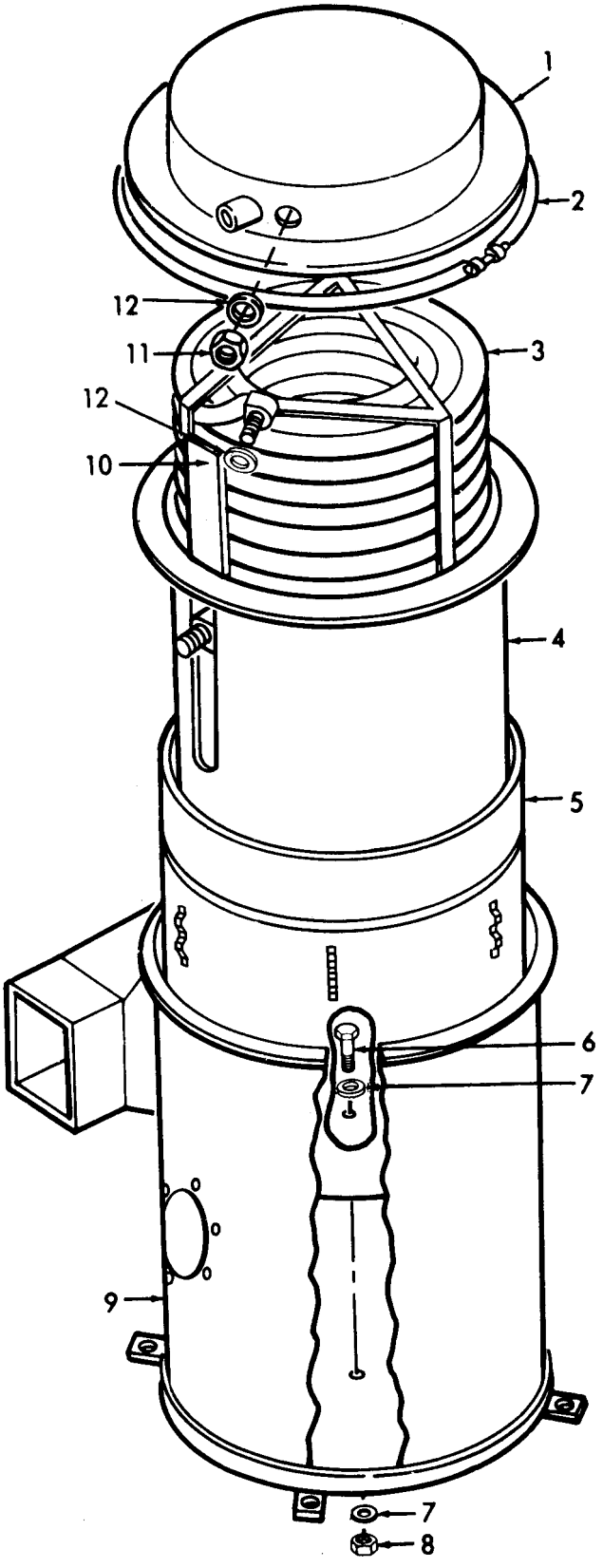
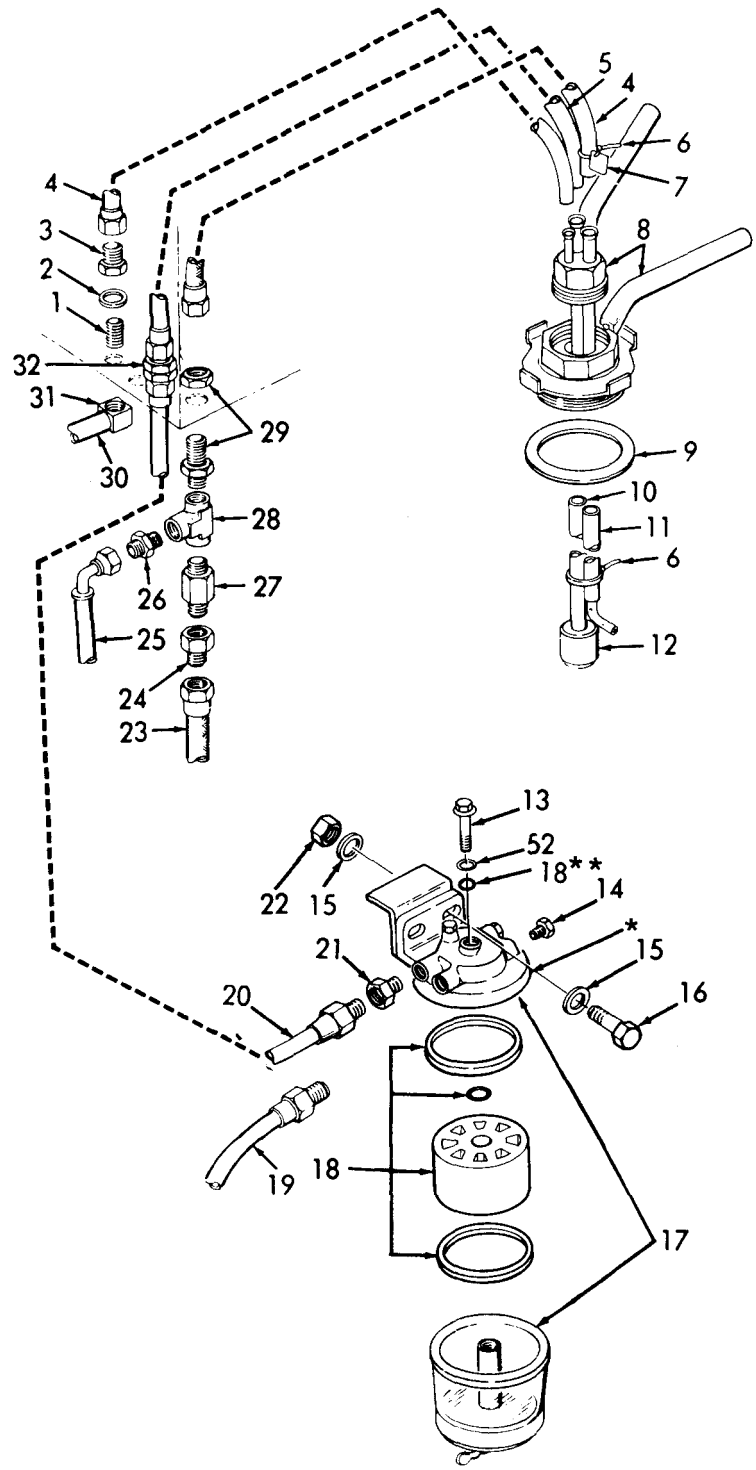


Figure B-10. Heat Exchanger.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 0205: HEAT EXCHANGER	
				FIG. B-10 HEAT EXCHANGER	
1	PAFZZ	90598	26201-1	TOP,HEATER	1
2	PAFZZ	90598	26204-1	RETAINER,BAND	1
3	PAFZZ	90598	26206-100	HEATER COIL ASSEMBL	1
4	PAFZZ	90598	26205-100	INNER MANTLE	1
5	PAFZZ	90598	26203-100	HEAT SHIELD ASSEMBL	1
6	XDFZZ	90598	26703-519	BOLT,HEX HD	1
7	PAFZZ	90598	26701-1	WASHER,FLAT	2
8	PAFZZ	90598	26705-500	NUT,SELF-LOCKING,HE	1
9	PAFZZ	90598	26202-100	CASING,HEATER,OUTER	1
10	XAFZZ	90598	26210-100	SLIDE,MANTLE	1
11	PAFZZ	90598	26207-1	NUT	1
12	PAFZZ	90598	26208-1	WASHER,BRASS	2
				END OF FIGURE	



* No further disassembly authorized.
** Furnished with element.

Figure B-11. Burner Fuel System (Sheet 1 of 2).

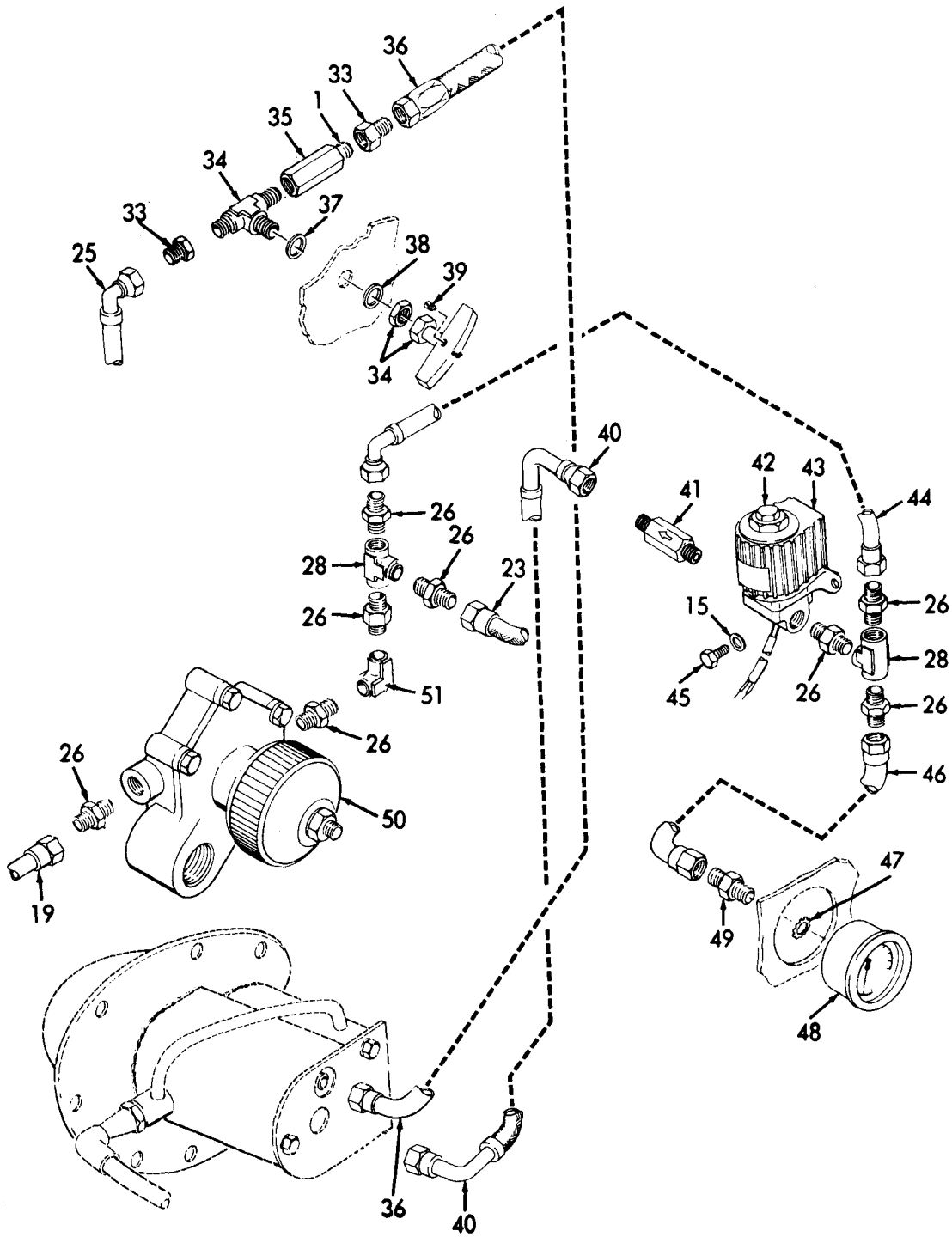


Figure B-11. Burner Fuel System (Sheet 2 of 2).

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 0206: BURNER FUEL SYSTEM GROUP 020601: FLUID FILTER	
				FIG. B-11 BURNER FUEL SYSTEM	
1	PAFZZ	79470	3326-2	NIPPLE,PLUMBING	2
2	PAFZZ	96906	MS27183-16	WASHER,FLAT	3
3	PAFZZ	90598	26423-1	BUSHING,PIPE	1
4	PAFZZ	90598	26418-1	HOSE ASSEMBLY,NONME	2
5	PAOZZ	90598	26409-1	HOSE ASSEMBLY,NONME	1
6	PAFZZ	59730	ET5M	STRAP,RETAINING	6
7	XDOZZ	90598	26420-1	PLATE,IDENT,GAA	1
8	PAOZZ	90598	26424-100	LID ASSEMBLY,HEAT-F	1
9	PAOZZ	56926	11910	GASKET	1
10	XDOZZ	90598	26408-1	HOSE ASSY, SUCTION	1
11	PAOZZ	90598	26419-1	HOSE ASSEMBLY,NONME	1
12	PAOZZ	90598	26421-1	STRAINER,SEDIMENT	1
13	PAOZZ	90598	26703-807	BOLT	1
14	PAOZZ	N1384	39FX5	PLUG	2
15	PAFZZ	96906	MS27183-9	WASHER,FLAT	6
16	PAFZZ	90598	26703-713	BOLT	2
17	PAFZZ	U3697	583368180	FILTER,FLUID	1
18	PAOZZ	U3697	7111-296	ELEMENT,FILTER,FUEL	1
19	PAFZZ	90598	26411-1	HOSE ASSEMBLY,NONME	1
20	PAFZZ	90598	26410-1	HOSE ASSEMBLY,NONME	1
21	PAFZZ	N1384	48FX5X4	COUPLING,REDUCING	1
22	PAFZZ	90598	26705-700	NUT,SELF-LOCKING,HE	2
23	PAFZZ	90598	26412-1	HOSE ASSEMBLY,NONME	1
24	XDFZZ	N1384	370X3-8X1-4	NIPPLE,PIPE	2
25	PAFZZ	90598	26417-1	HOSE ASSEMBLY,NONME	1
26	XDFZZ	N1384	EV282BX1/4X1/4	NIPPLE,PIPE	8
27	PAFZZ	U3697	73092B	VALVE,REGULATING,FU	1
28	PAFZZ	N1384	380X4	TEE,PIPE	3
29	PAFZZ	N1384	286B X 1/4	NIPPLE,PIPE	1
30	PAFZZ	90598	26422-1	HOSE,NONMETALLIC	1
31	PAFZZ	79470	1070X6X2	ELBOW,PIPE TO HOSE	1
32	XDFZZ	N1384	286BX3/8	NIPPLE,PIPE	1
33	PAFZZ	90598	26427-1	ADAPTER,STRAIGHT,PI	2
34	PAFZZ	12623	B-ORM2W/A-5K14B	VALVE,GLOBE	1
35	PAFZZ	90526	MJCV1	VALVE,CHECK	1
36	PAFZZ	90598	26416-1	HOSE ASSEMBLY,NONME	1
37	PAFZZ	90598	26426-1	WASHER,FLAT	2
38	PAFZZ	96906	MS35333-77	WASHER,LOCK	1
39	PAOZZ	96906	MS51964-64	SETSCREW	1
40	PAFZZ	90598	26415-1	HOSE ASSEMBLY,NONME	1
41	PAFZZ	N1384	1020-270X1-4	VALVE,CHECK	1
42	PAFZZ	N1384	300X4	PLUG,PIPE	1
43	PAFZZ	90598	26403-1	VALVE ASSEMBLY,HEAT	1
44	PAFZZ	90598	26413-1	HOSE ASSEMBLY,NONME	1
45	PAFZZ	90598	26703-507	BOLT	2
46	PAFZZ	90598	26414-1	HOSE ASSEMBLY,NONME	1
47	PAFZZ	96906	MS35335-33	WASHER,LOCK	1

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
48	PAOZZ	90598	26407-1	MANOMETER,PANEL MOU	1
49	XDFZZ	N1384	3701/4X1/4	NIPPLE,PIPE	1
50	PAFZZ	U3697	RS1012	PUMP,FUEL HEATER	1
51	PAFZZ	N1384	392X4X4	ELBOW,PIPE	1
52	XDOZZ	96906	MS27183-9	WASHER,FLAT	1

END OF FIGURE

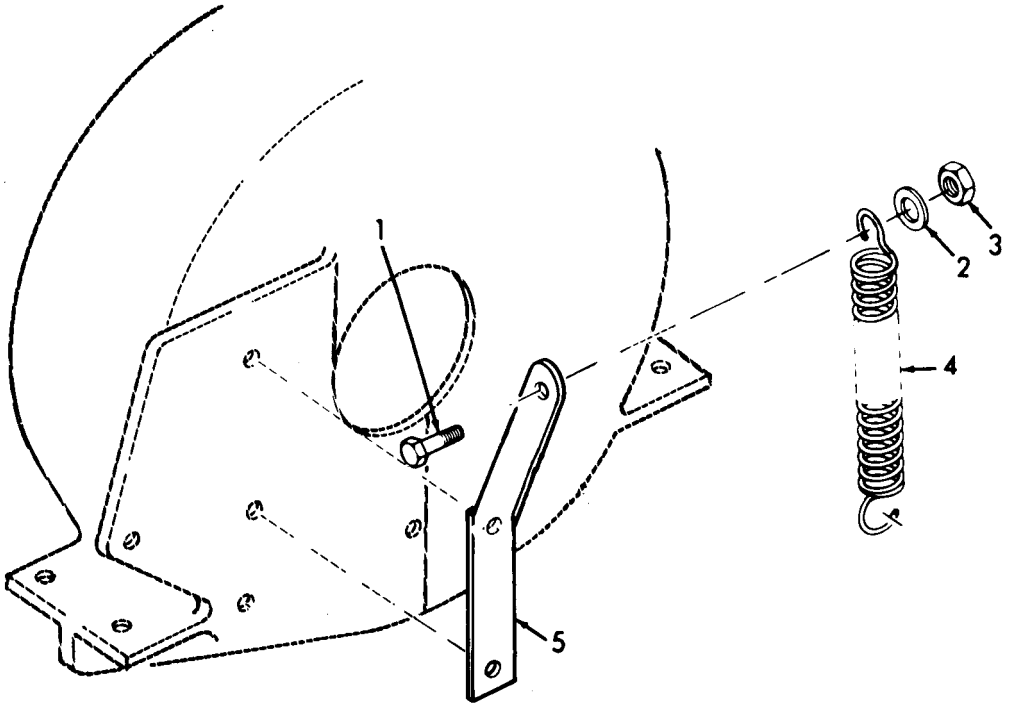


Figure B-12. Belt Tensioner.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 0207: BELT PUMP TENSIONER	
				FIG. B-12 BELT TENSIONER	
1	XDOZZ	90598	26708-506	SCREW,HEX HD	1
2	PAOZZ	90598	26701-1	WASHER,FLAT	2
3	PAOZZ	90598	26705-500	NUT,SELF-LOCKING,HE	1
4	PAOZZ	84830	LE-055E-8SS	SPRING,HELICAL,EXTE	1
5	XDOZZ	90598	26468-1	BRACKET,TENSIONER	1
				END OF FIGURE	

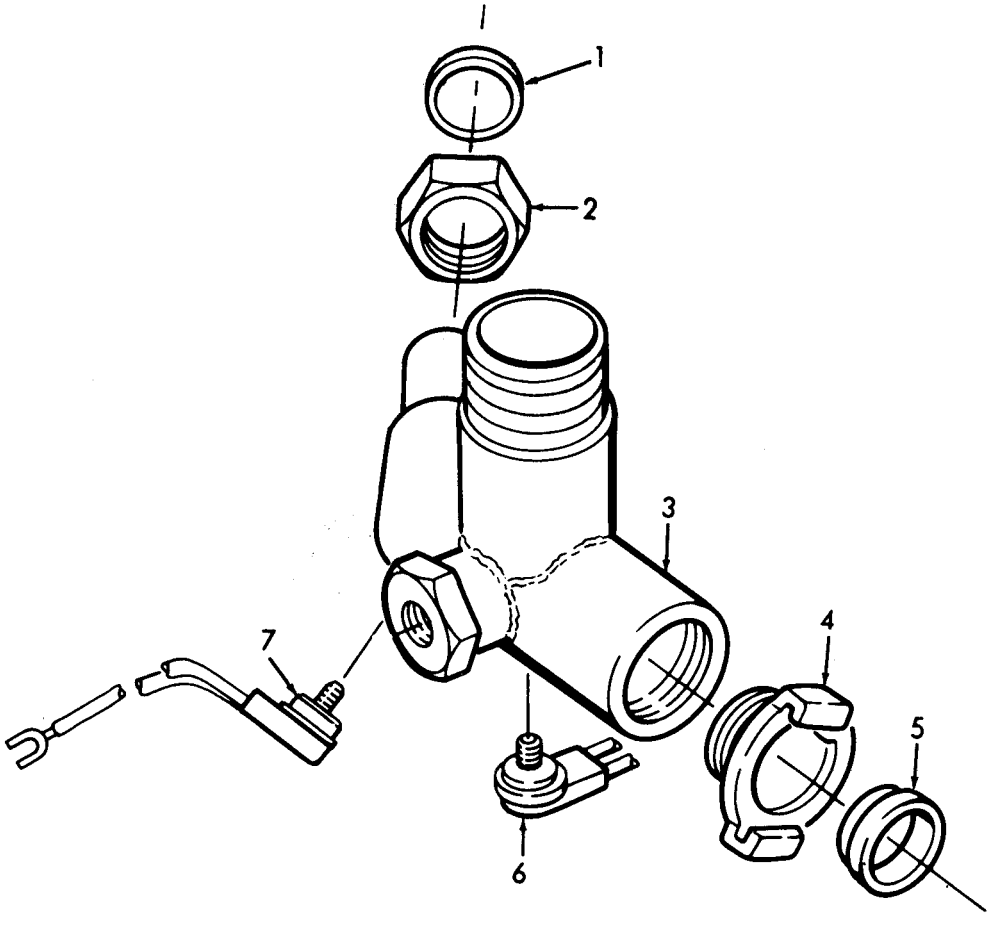


Figure B-13. Water Outlet.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 0208: WATER OUTLET	
				FIG. B-13 WATER OUTLET	
1	PAOZZ	N1384	60FX16	CONE,RING CLAMPING	1
2	XDOZZ	N1384	191B1X1	NUT,HEX IINBSP	1
3	XDOZZ	90598	26271-101	TEE,OUTLET	1
4	PAOZZ	59379	9000-0303	COUPLING HALF,QUICK	1
5	PAOZZ	59379	9000-0268	GASKET	1
6	XDOZZ	82647	4344-324-1	SWITCH,THERMOSTAT	1
7	XDOZZ	82647	4344-324-2	SWITCH,THERMOSTAT	1
				END OF FIGURE	

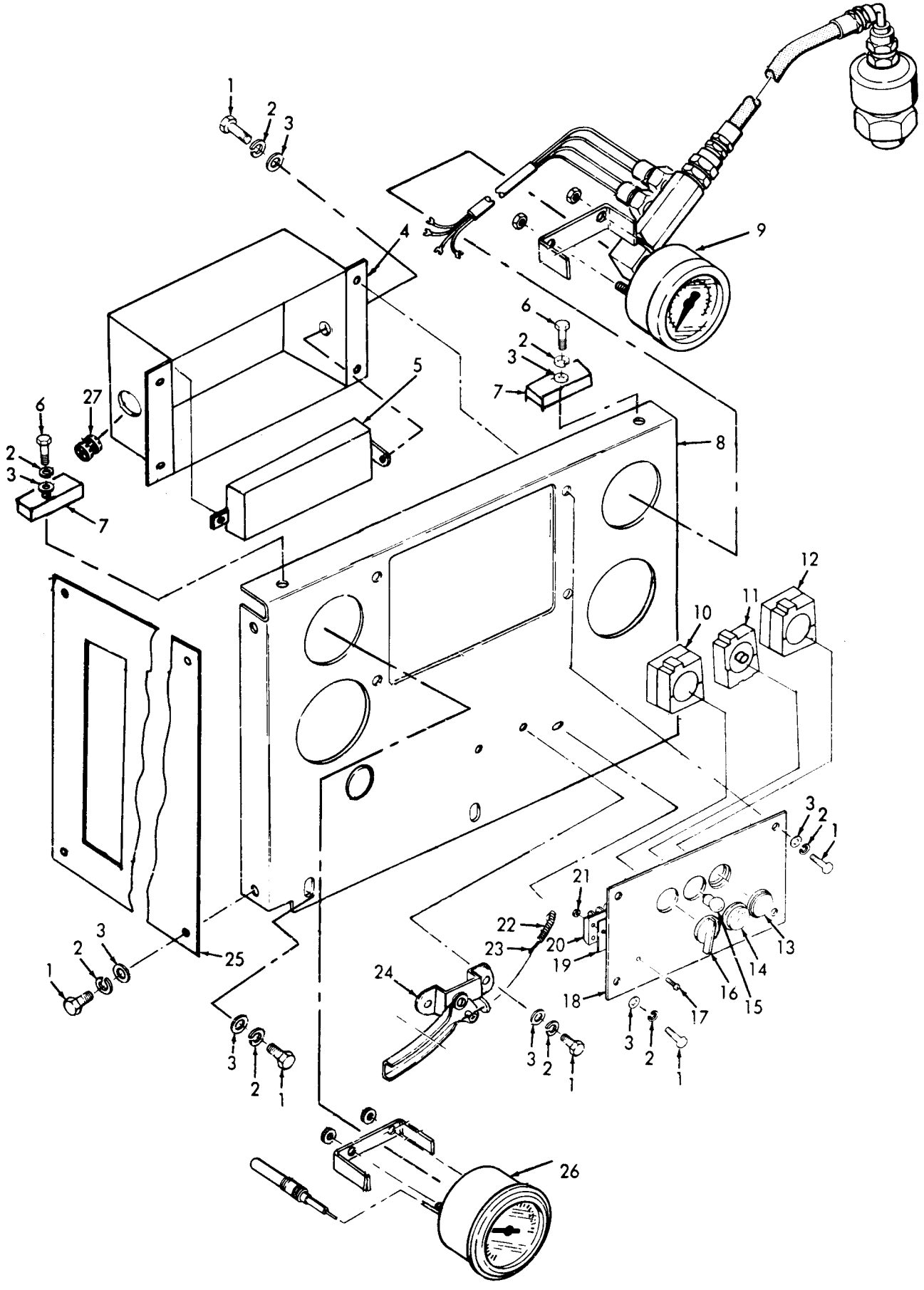


Figure B-14. Control Panel.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 0209: CONTROL PANEL	
				FIG. B-14 CONTROL PANEL	
1	PAOZZ	90598	26703-505	BOLT,MACHINE	15
2	PAOZZ	96906	MS35333-135	WASHER,LOCK	17
3	PAOZZ	96906	MS27183-9	WASHER,FLAT	17
4	XAFZZ	90598	26616-1	BOX,ENCLOSURE	2
5	PAFZZ	90598	26612-100	CONTROL MODULE	1
6	PAFZZ	90598	26703-514	BOLT	1
7	PAFZZ	90598	26618-1	SPACER	2
8	XAOZZ	90598	26611-1	PANEL,CONTROL	1
9	PAFZZ	90598	26615-100	MANOMETER ASSEMBLY	1
10	PAFZZ	37833	ZB2BZ104	SWITCH SUBASSEMBLY	1
11	PAFZZ	37833	ZB2BV6	LIGHT,INDICATOR	1
12	XDOZZ	37833	ZB2BZ106	SWITCH SUBASSEMBLY	1
13	PAFZZ	37833	ZB2BL4	PUSH BUTTON	1
14	PAOZZ	37833	ZB2BV05	LENS,LIGHT	1
15	PAOZZ	21877	146381	LAMP,INCANDESCENT	1
16	PAOZZ	37833	ZB2BJ3	KNOB	1
17	PAFZZ	15526	7985ST M3-16	SCREW,MACHINE	2
18	XAFZZ	90598	26617-1	PANEL,FRONT	1
19	PAFZZ	73631	247A10-12	MARKER STRIP,TERMIN	1
20	PAFZZ	73631	1512W	TERMINAL BOARD	1
21	PAFZZ	15526	985ST M3	NUT	2
22	XDFZZ	08645	66986	CASING,FLEXIBLE	1
23	PAFZZ	08645	26099	LEAD,ELECTRICAL	1
24	PAOZZ	08645	290568	LEVER,THROTTLE CONT	1
25	XAFZZ	90598	26613-100	COVER,INLET,SIDE	1
26	PAFZZ	90598	26614-1	THERMOMETER,PANEL M	1
27	PAFZZ	28520	UB875	BUSHING,ELECTRICAL	3
				END OF FIGURE	

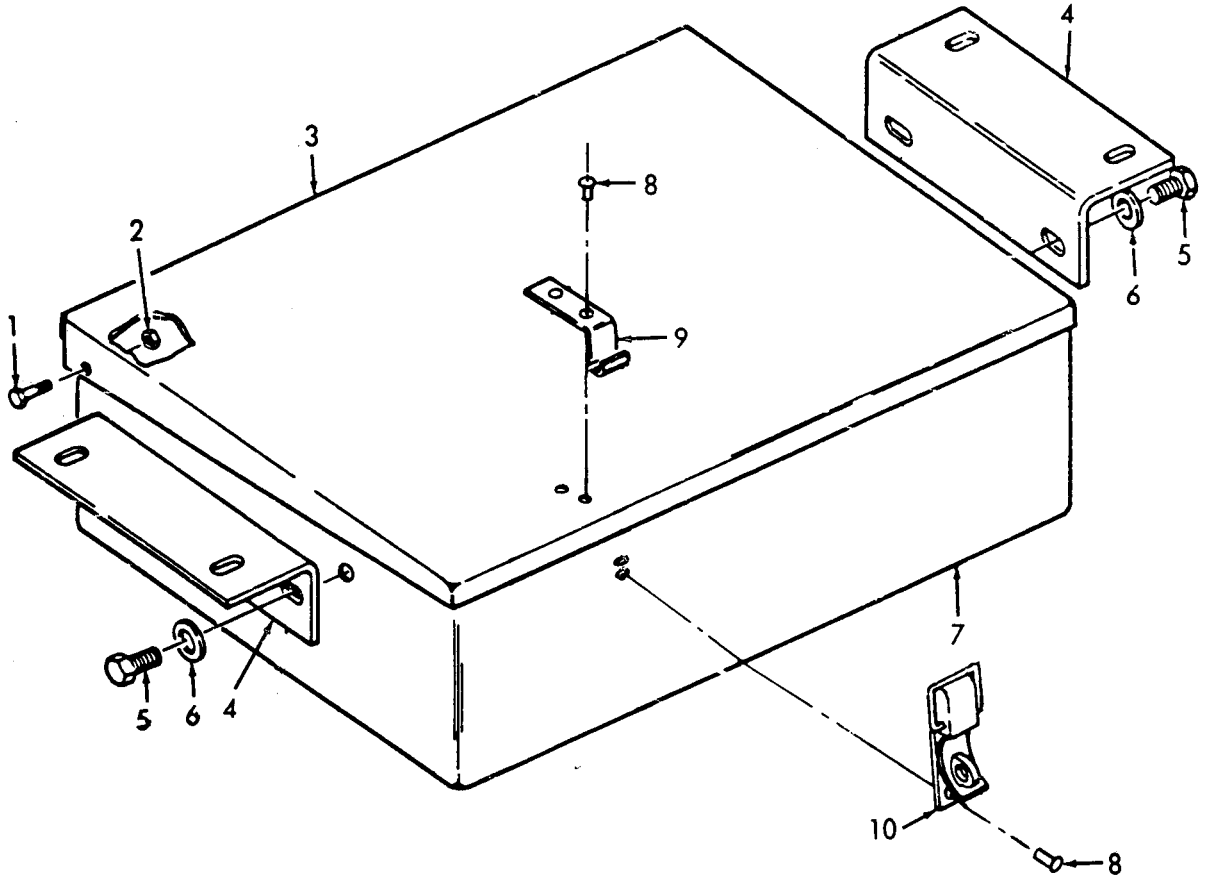


Figure B-15. Tool Box.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 0210: TOOL BOX	
				FIG. B-15 TOOL BOX	
1	PAOZZ	90598	26703-407	BOLT	2
2	PAOZZ	90598	26705-400	NUT,SELF-LOCKING,HE	2
3	XDOZZ	90598	26571-1	COVER,TOOL BOX	1
4	XDOZZ	90598	26573-1	ANGLE,TOOL BOX	2
5	PAOZZ	90598	26703-505	BOLT,MACHINE	4
6	PAOZZ	96906	MS27183-9	WASHER,FLAT	4
7	XAOZZ	90598	26572-1	BOX, TOOL	1
8	XDOZZ	07707	SCD45BS	RIVET	4
9	XDOZZ	98003	SC-D20650-14CE	STRIKE,CATCH	1
10	PAOZZ	98003	HC227ZE	CATCH,CLAMPING	1
				END OF FIGURE	

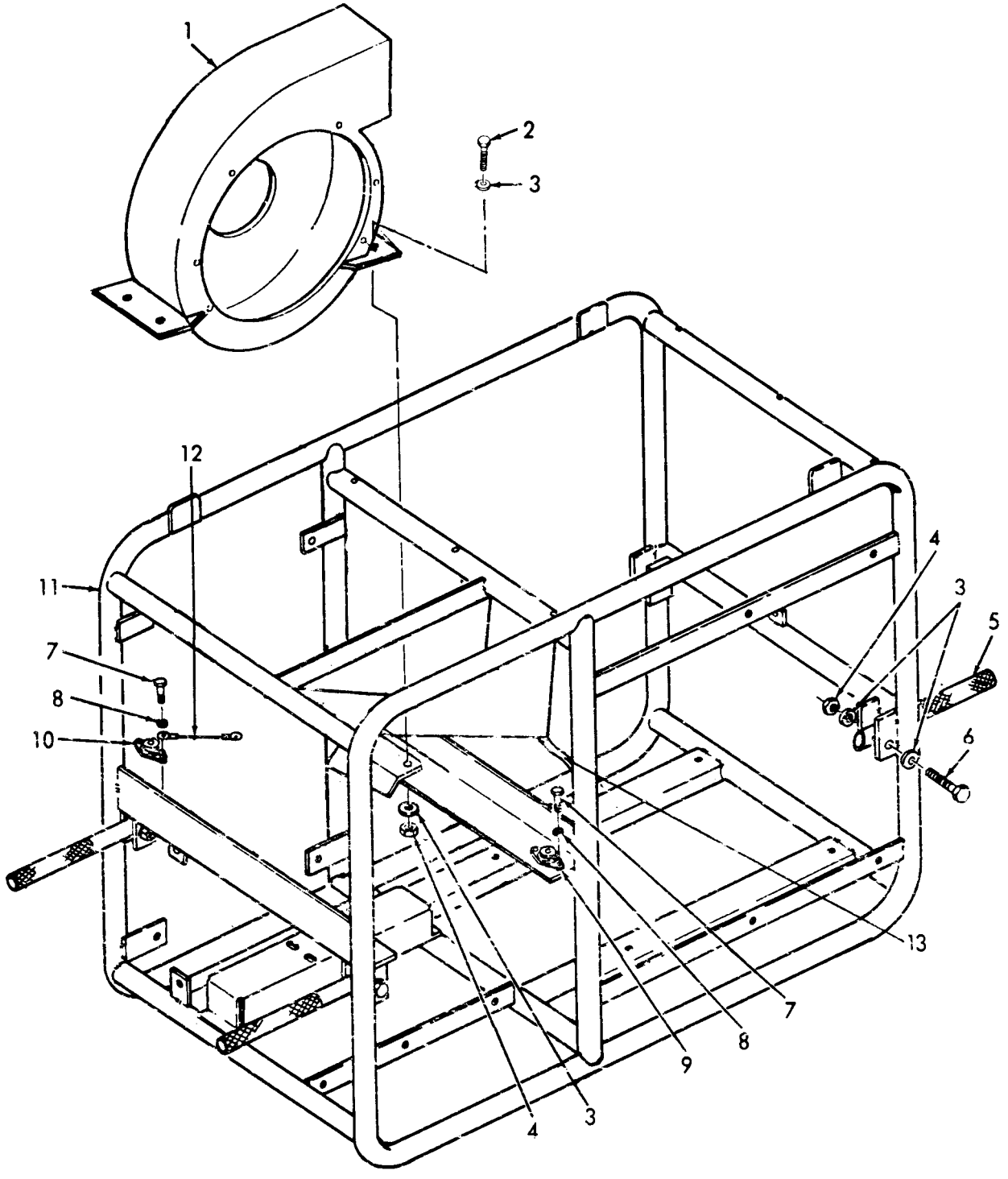


Figure B-16. Frame.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 0211: FRAME	
				FIG. B-16 FRAME	
1	XDFZZ	90598	26551-100	HOUSING,FAN	1
2	PAFZZ	90598	26703-711	BOLT	4
3	PAOZZ	96906	MS27183-12	WASHER,FLAT	16
4	PAOZZ	90598	26705-700	NUT,SELF-LOCKING,HE	8
5	PAOZZ	90598	26502-1	HANDLE,DECONTAMINAT	4
6	PAOZZ	90598	26703-719	BOLT HEX HD	4
7	PAFZZ	90598	26703-505	BOLT,MACHINE	8
8	PAFZZ	96906	MS35335-33	WASHER,LOCK	8
9	PAFZZ	90598	26505-1	MOUNT,RESILIENT	2
10	PAFZZ	90598	26504-1	MOUNT,RESILIENT	2
11	XAOZZ	90598	26501-102	FRAME WELDMENT	1
12	PAOZZ	90598	26619-100	LEAD,ELECTRICAL	1
13	XDOZZ	90598	26500-14	TYGON TUBING	1
				END OF FIGURE	

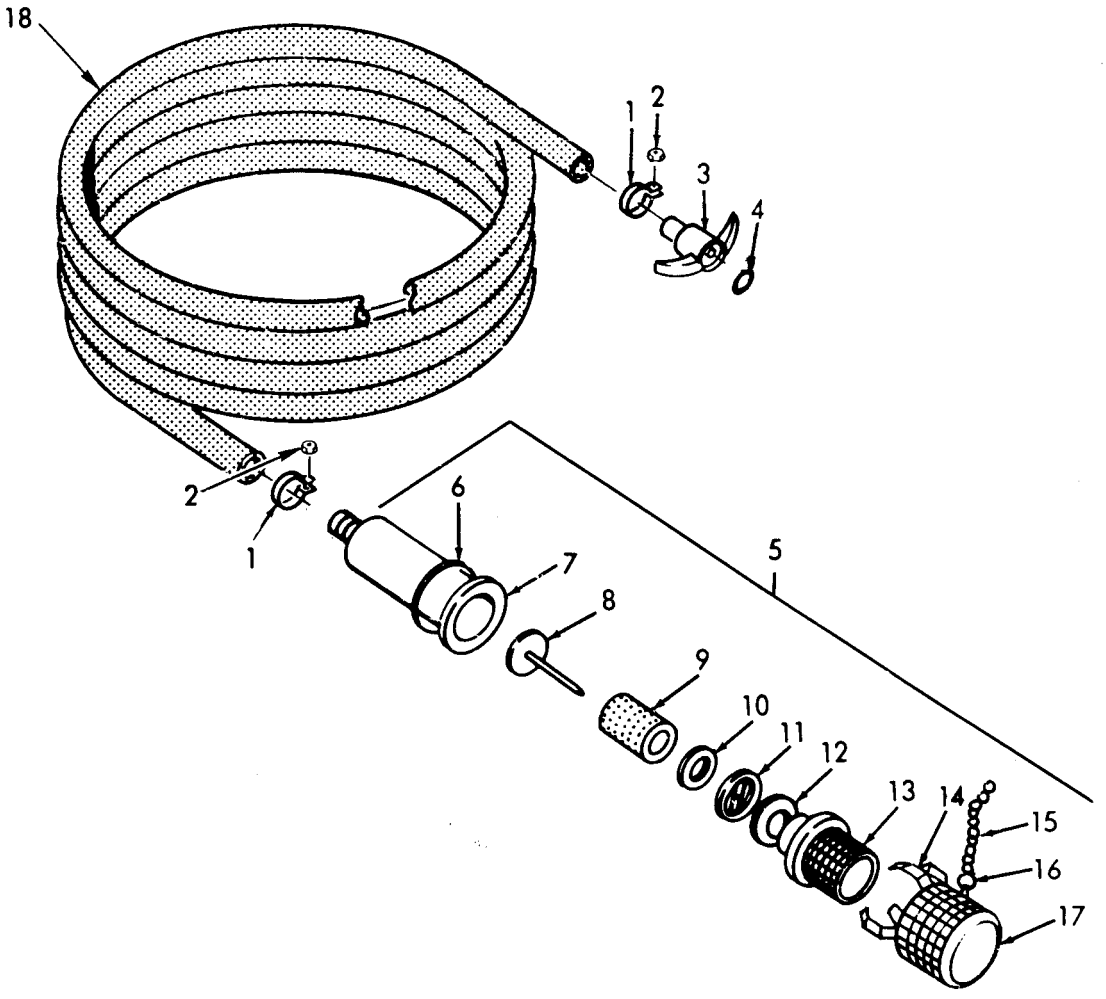


Figure B-17. Suction Hose.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 03: SUCTION HOSE GROUP 0301: STRAINER	
				FIG. B-17 SUCTION HOSE	
1	PAOZZ	72661	11	CLAMP,HOSE	2
2	PAOZZ	96906	MS51943-31	NUT,SELF-LOCKING,HE	2
3	PAOZZ	96906	MS27025-7	COUPLING HALF,QUICK	1
4	XDOZZ	96906	MS27030-4	GASKET	1
5	PAOOO	90598	26051-100	STRAINER,WATER HOSE	1
6	XAOZZ	39428	9651K61	SPRING,HELICAL	1
7	XAOZZ	90598	26052-1	SHROUD,STRAINER	1
8	XAOZZ	90598	26053-1	RETAINER,FILTER	1
9	PAOZZ	55524	Y45-238	FILTER ELEMENT,FLUI	1
10	PAOZZ	90598	26054-2	GASKET	1
11	XAOZZ	90598	26055-1	MOUNT,FILTER	1
12	PAOZZ	90598	26054-1	GASKET	1
13	PAOZZ	55524	F20-30	STRAINER,SUCTION	1
14	PAOZZ	90598	26056-1	CLIP	3
15	MOOZZ	90598	26051-11	CHAIN,SAFETY MAKE FROM P/N 8962T12	1
16	PAOZZ	39248	943K13	HOOK	1
17	XDOZZ	90598	26057-1	BASKET,STRAINER	1
18	PAOZZ	90598	26650-1	HOSE ASSEMBLY,NONME	1
				END OF FIGURE	

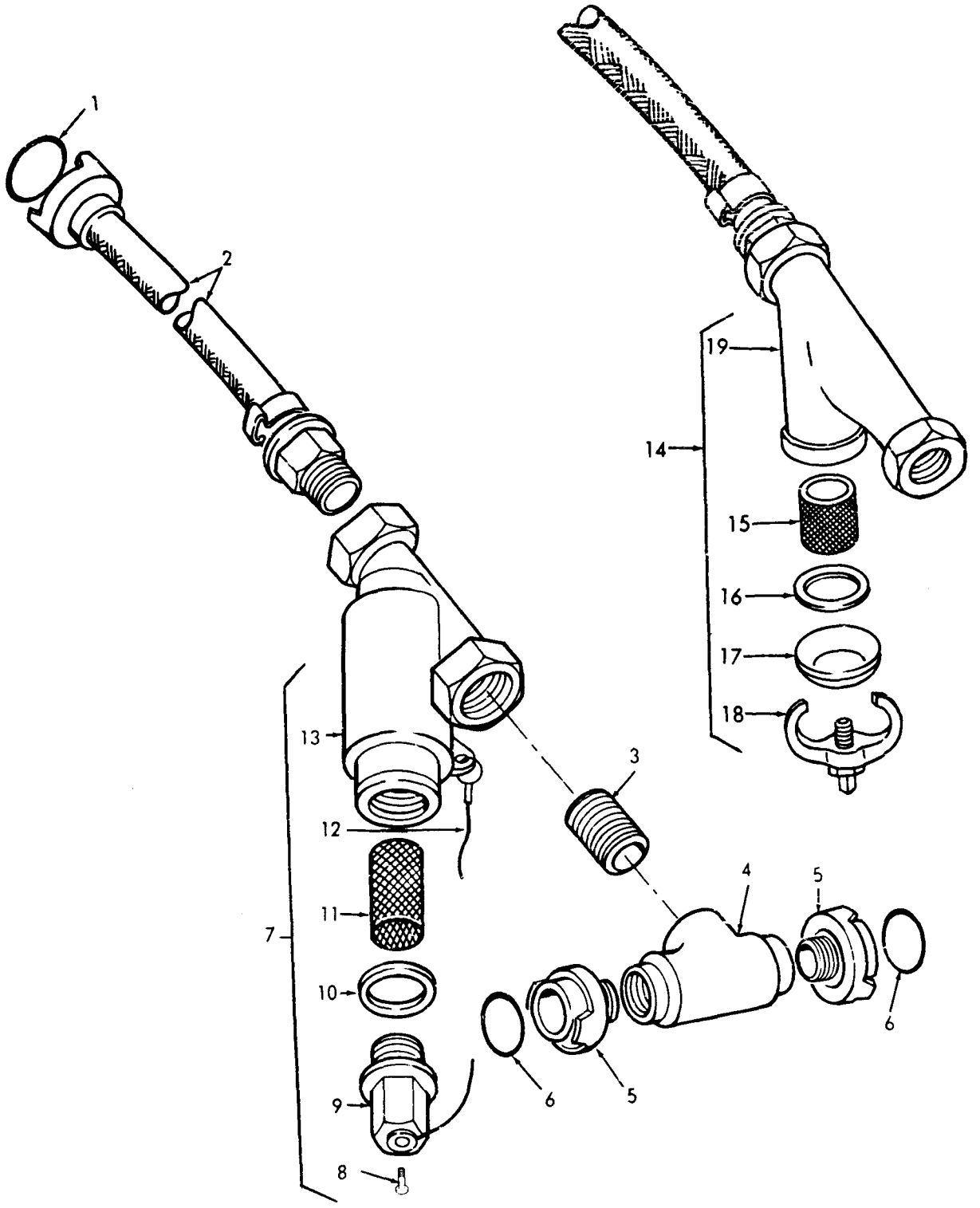
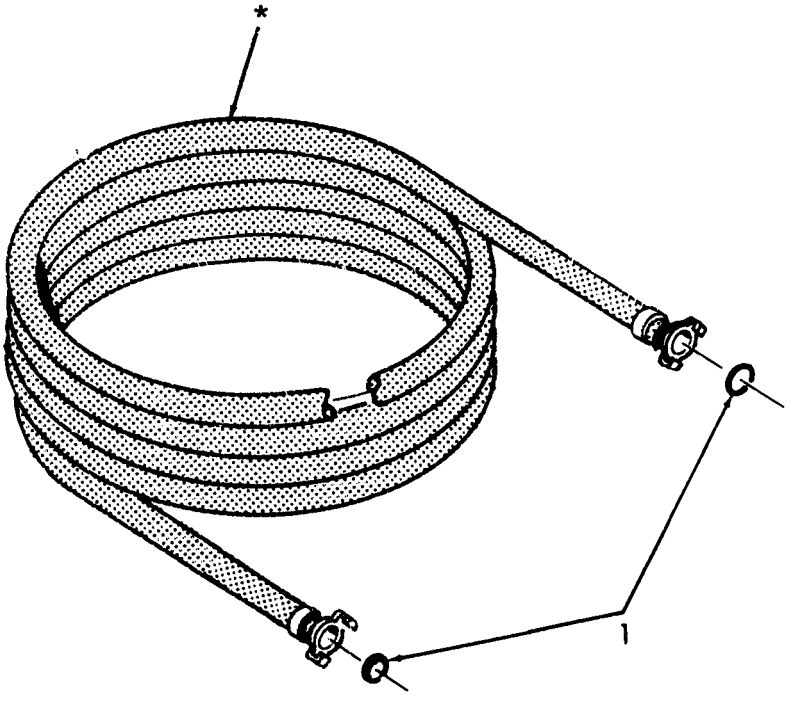


Figure B-18. Branch Hose/Strainer Assembly.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 04: BRANCH HOSE GROUP 0401: STRAINER	
				FIG. B-18 BRANCH HOSE/STRAINER ASSY	
1	PAOZZ	59379	9000-0268	GASKET	1
2	XDOZZ	90598	26007-101	HOSE,BRANCH	1
3	XDOZZ	90598	26660-12	NIPPLE,BRANCH HOSE	1
4	PAOZZ	N0844	12-01-08	TEE,PIPE	1
5	PAOZZ	59379	9000-0303	COUPLING HALF,QUICK	2
6	PAOZZ	59379	9000-0000	GASKET	2
7	XAOZZ	90598	26663-101	STRAINER,ASSEMBLY (VERSION B-CONSISTS OF ITEMS 8, 9, 10, 11, 12, & 13)	1
8	XAOZZ	90598	26663-13	SCREW,LANYARD	1
9	XAOZZ	90598	26663-10	CAP,STRAINER	1
10	XDOZZ	90598	26663-11	GASKET,STRAINER	1
11	XDOZZ	90598	26664-2	ELEMENT,STRAINER	1
12	XAOZZ	90598	26663-12	LANYARD,STRAINER	1
13	XAOZZ	90598	26663-9	BODY,STRAINER	1
14	XAOZZ	90598	26663-100	STRAINER ASSEMBLY (VERSION A-CONSISTS OF ITEMS 15, 16, 17, 18, 19)	1
15	XDOZZ	90598	26663-6	ELEMENT,STRAINER	1
16	XDOZZ	90598	26663-5	GASKET, STRAINER	1
17	XAOZZ	90598	26663-2	COVER, STRAINER	1
18	XAOZZ	90598	26663-3	YOKE	1
19	XAOZZ	90598	26663-1	BODY, STRAINER	1
				END OF FIGURE	



*** No further disassembly authorized.**

Figure B-19. Pressure Hose.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 05: PRESSURE HOSE	
				FIG. B-19 PRESSURE HOSE	
1	PAOZZ	59379	9000-0268	GASKET	2
				END OF FIGURE	

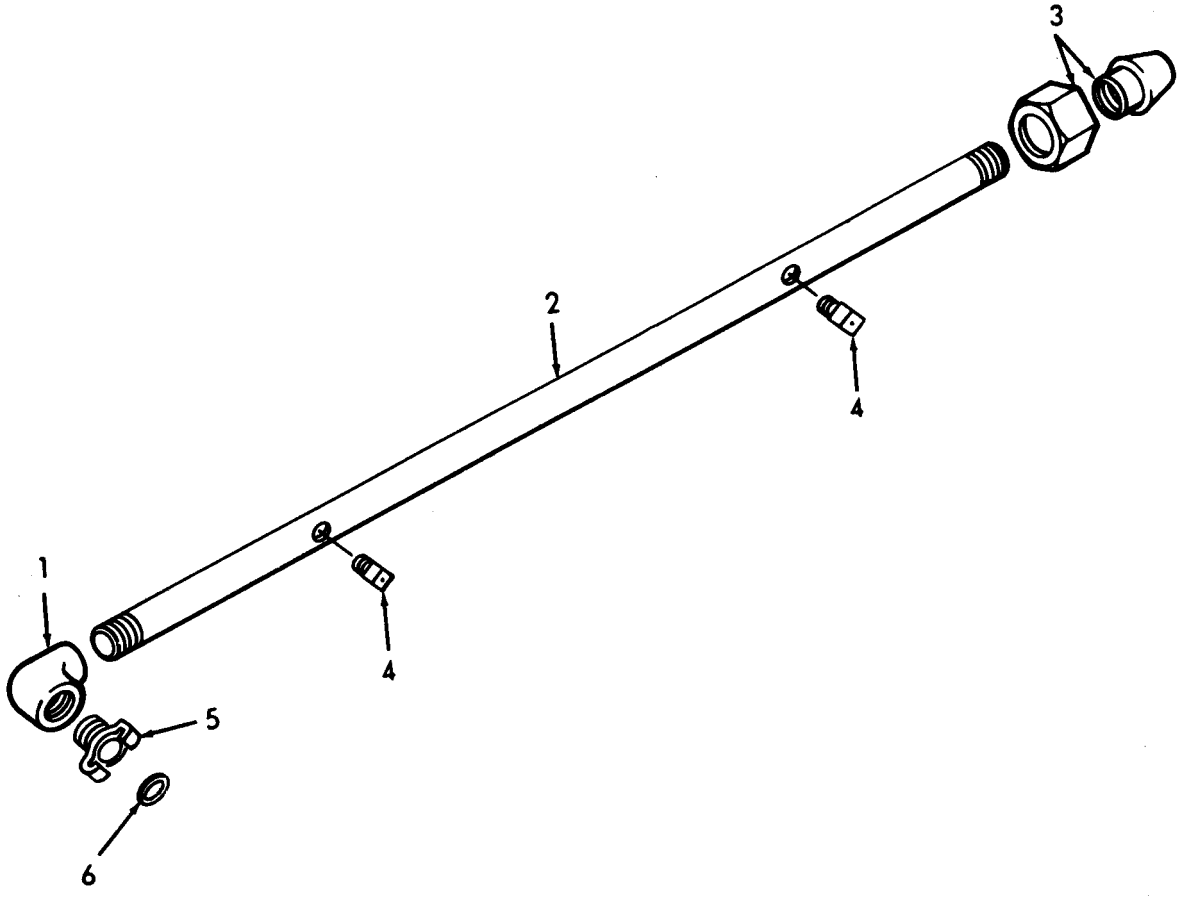


Figure B-20. Shower (End).

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 06: SHOWER (END)	
				FIG.B-20 SHOWER (END)	
1	PAOZZ	N0844	10-02-03	ELBOW,PIPE	1
2	XAOZZ	90598	26044-1	TUBE,METALLIC	1
3	XDOZZ	N1054	311X8F M/HYLSE	COUPLING,FEMALE	1
4	XDOZZ	82247	1-4HH6.5	NOZZLE,SPRAY,FLUID-	2
5	XDOZZ	59379	9000-0301	COUPLING,PIPE	1
6	PAOZZ	59379	9000-0000	GASKET	1
				END OF FIGURE	

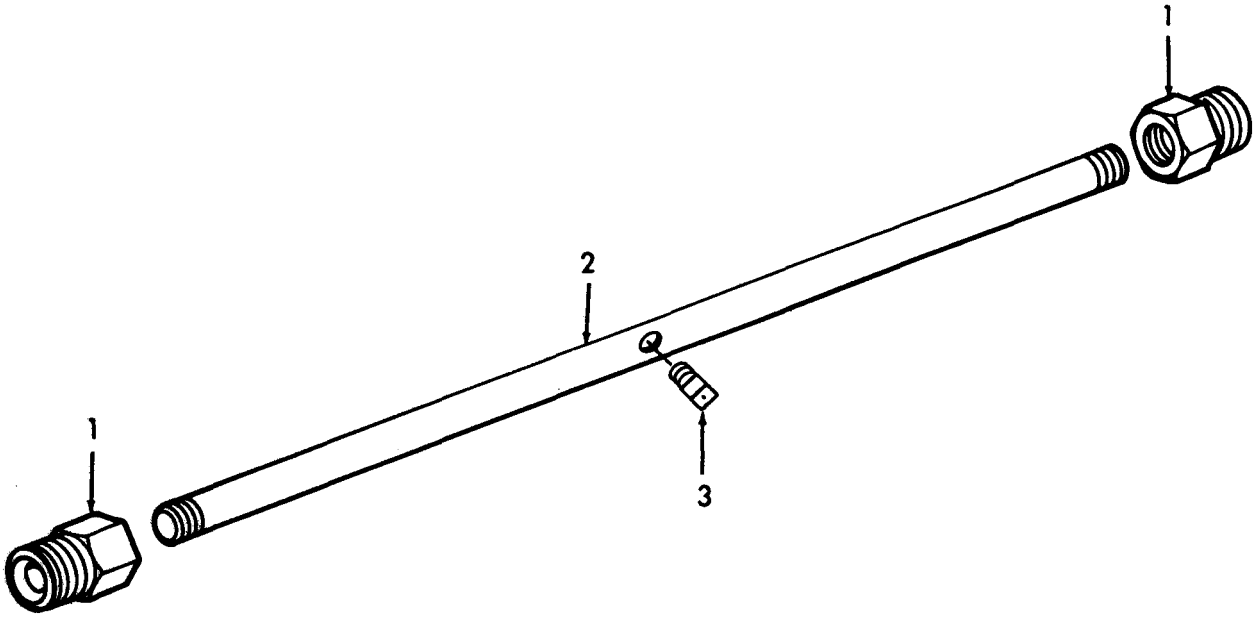


Figure B-21. Shower Assembly (Middle).

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 07: SHOWER (MIDDLE)	
				FIG.B-21 SHOWER (MIDDLE)	
1	PAOZZ	N1054	311X8M	COUPLING,MALE	1
2	XAOZZ	90598	26045-1	TUBE,METALLIC	1
3	XDOZZ	82247	1-4HH6-5	NOZZLE,SPRAY,FLUID-	1
				END OF FIGURE	

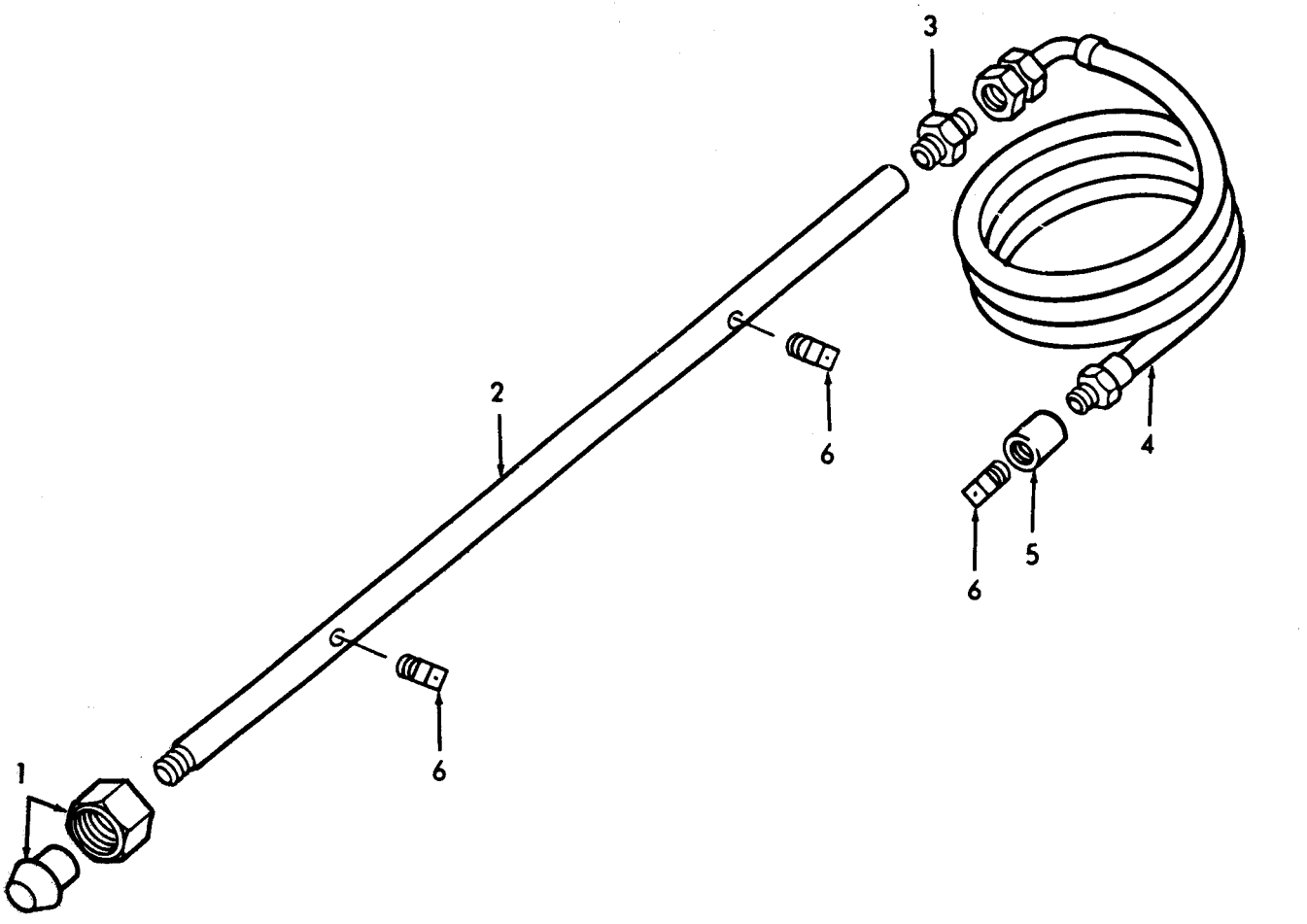


Figure B-22. Shower (with Hose).

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 08: SHOWER (WITH HOSE)	
				FIG.B-22 SHOWER (WITH HOSE)	
1	XDOZZ	N1054	311X8F	COUPLING,FEMALE	1
2	XAOZZ	90598	26046-1	TUBE,SPRAYER	1
3	PAOZZ	N1384	267X4X6	NIPPLE,PIPE	1
4	PAOZZ	90598	26047-1	HOSE ASSEMBLY,NONME	1
5	PAOZZ	N1054	375X4	COUPLING,PIPE	1
6	XDOZZ	82247	1-4HH6-5	NOZZLE,SPRAY,FLUID-	3
				END OF FIGURE	

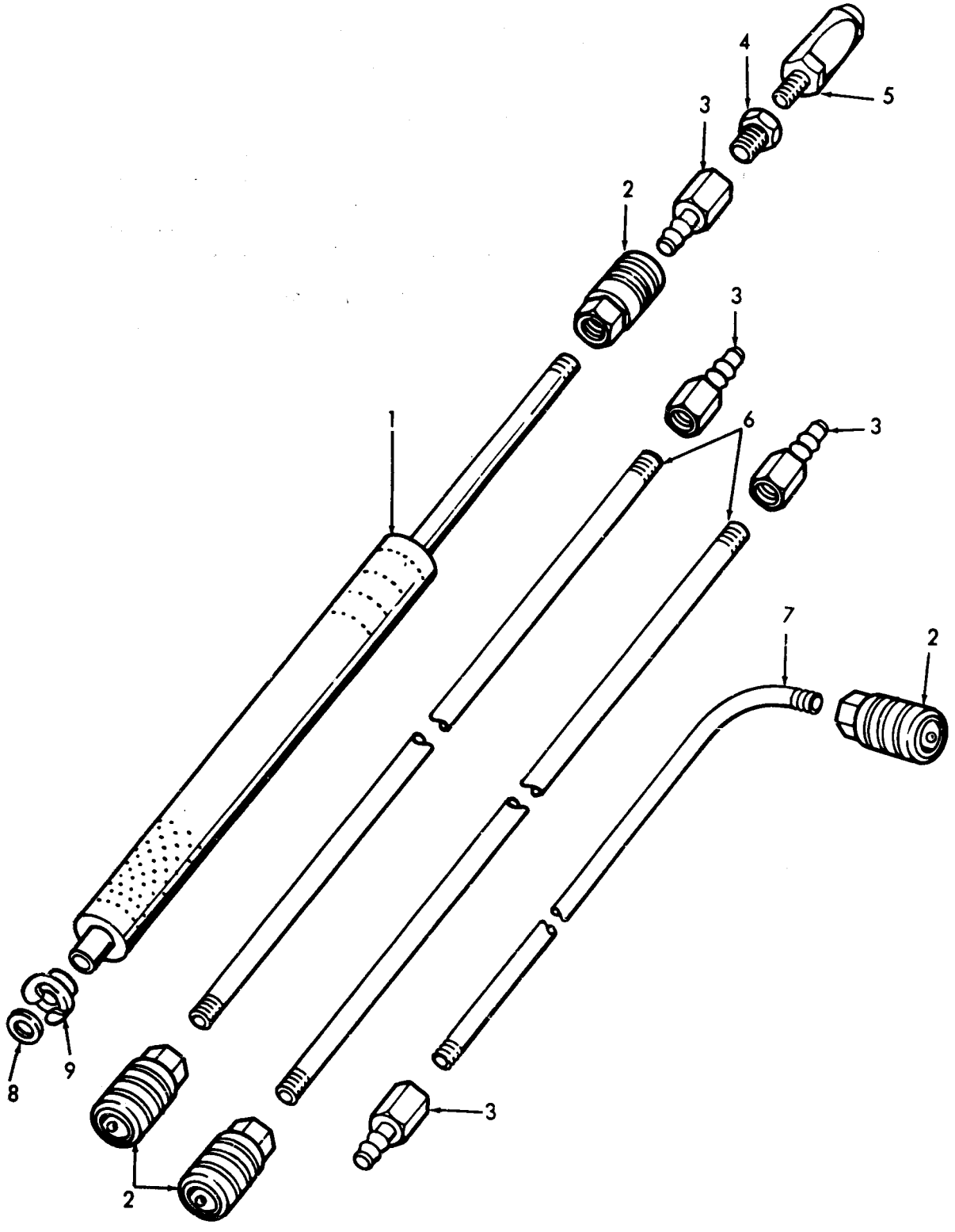


Figure B-23. Jet.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 09: JET	
				FIG.B-23 JET	
1	XAOZZ	90598	26021-100	HANDLE	1
2	PAOZZ	73061	4S26	COUPLING HALF,QUICK	4
3	PAOZZ	73061	B4T26	COUPLING HALF,QUICK	4
4	PAOZZ	79470	3220X8X6	BUSHING,PIPE	1
5	PAOZZ	82247	3-8P1530	NOZZLE,SPRAY,FLUID-	1
6	XDOZZ	90598	26022-2	TUBE,THREADED	2
7	PAOZZ	90598	26022-4	TUBE,BENT,METALLIC	1
8	PAOZZ	59379	9000-0000	GASKET	1
9	PAOZZ	59379	9000-0305	COUPLING HALF,QUICK	1
				END OF FIGURE	

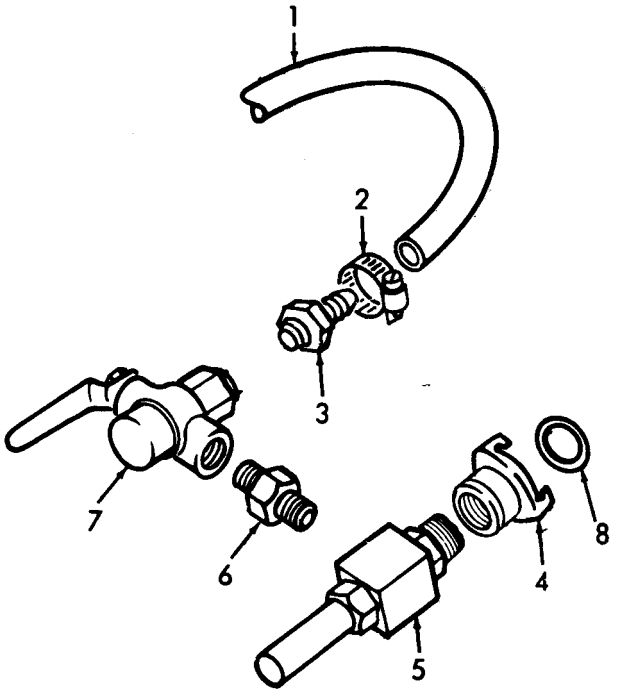


Figure B-24. Injector.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 10: INJECTOR	
				FIG.B-24 INJECTOR	
1	XDOZZ	61501	TYGON5-81DX7-80D	TUBING,NONMETALLIC	1
2	XDOZZ	39428	5916K32	CLAMP,HOSE	1
3	PAOZZ	41947	W1431	ADAPTER,STRAIGHT,PI	1
4	PAOZZ	59379	9000-0306	COUPLING HALF,QUICK	1
5	PAOZZ	82247	1-7N16	NOZZLE,SPRAY,FLUID-	1
6	PAOZZ	32402	122R-ED	REDUCER,PIPE	1
7	PAOZZ	12623	B45XF8	VALVE,CROSS	1
8	PAOZZ	59379	9000-000	GASKET	1
				END OF FIGURE	

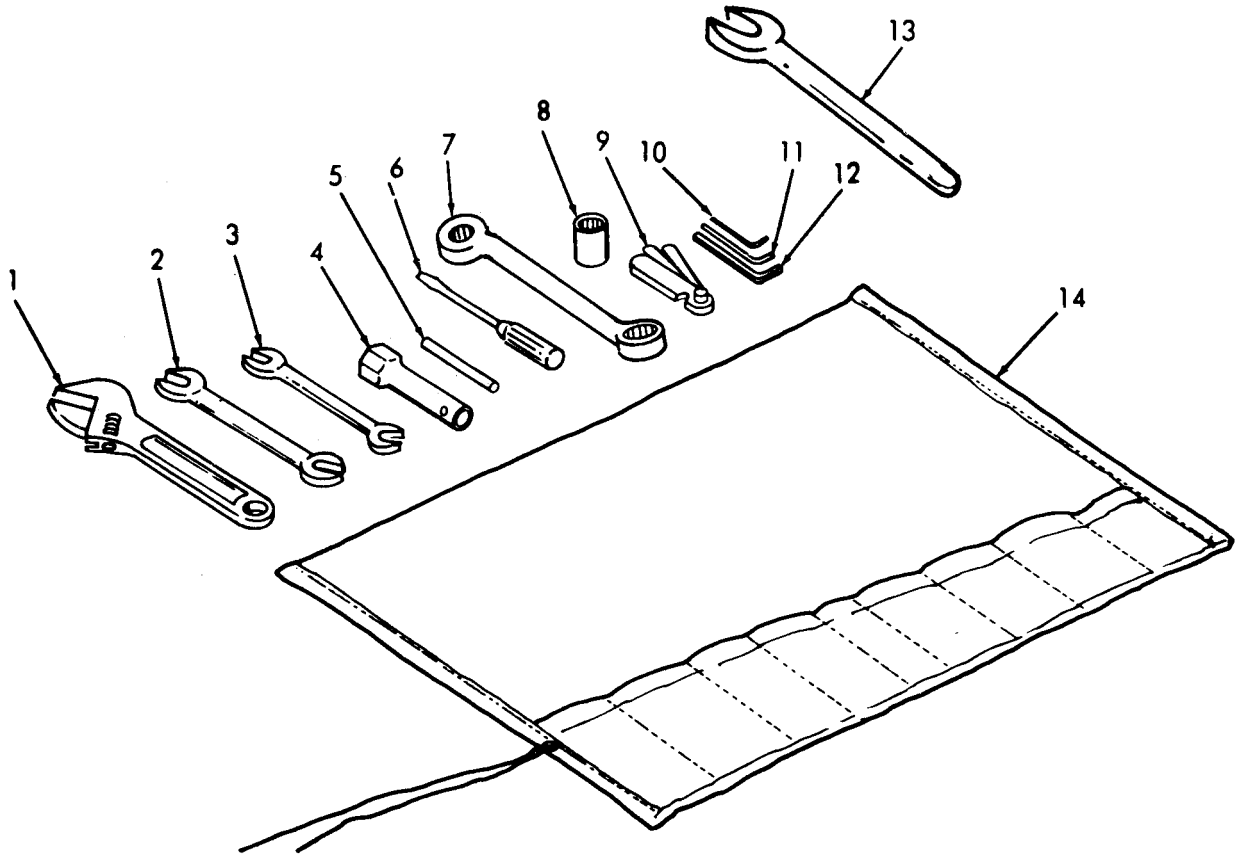


Figure B-25. Tool Kit.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 11: TOOL KIT	
				FIG. B-25 TOOL KIT	
1	PAFZZ	90598	26070-1	WRENCH,SPECIAL PURP	1
2	XDOZZ	90598	26070-2	WRENCH,OPEN END	1
3	PAOZZ	90598	26070-3	WRENCH,OPEN END	1
4	PAOZZ	90598	26070-4	WRENCH,SPARK PLUG	1
5	XDOZZ	26848	40950-5	BAR,SOCKET WRENCH H	1
6	PAOZZ	65814	DS-6B	SCREWDRIVER,FLAT TI	1
7	PAOZZ	90598	26070-7	WRENCH,BOX	1
8	PAOZZ	55719	FSM-241	SOCKET,SOCKET WRENC	1
9	PAOZZ	90598	26070-9	GAGE,FEELER	1
10	XDOZZ	90598	26070-10	KEY,SOCKET HD SCR	1
11	PAOZZ	90598	26070-11	KEY,SOCKET HEAD SCR	1
12	XDOZZ	90598	26070-12	KEY,SOCKET HD SCR	1
13	XDOZZ	90598	26070-14	WRENCH,OPEN END	1
14	XDOZZ	90598	26070-13	POUCH,TOOL KIT	1
				END OF FIGURE	

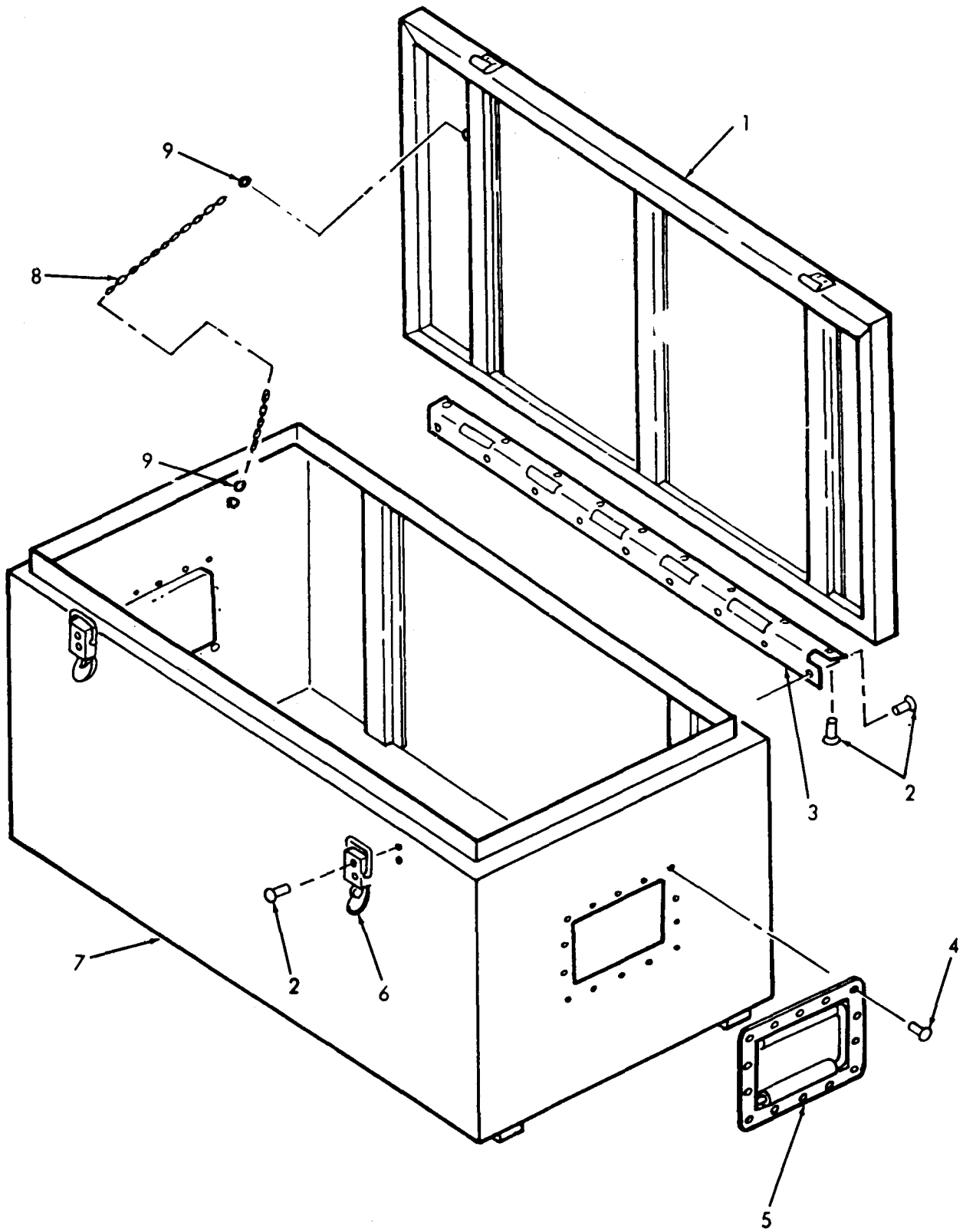


Figure B-26. Storage Accessory Case.

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 12: STORAGE ACCESSORY CASE	
				FIG.B-26 ACCESSORY CASE	
1	XAOZZ	90598	26067-100	COVER ASSY	1
2	PAOZZ	07707	SSD64BS	RIVET	22
3	PAOZZ	90598	26068-1	HINGE	1
4	PAOZZ	07707	SSD43BS	RIVET,BLIND	28
5	PAOZZ	98003	H561LS2RG	HANDLE,BAIL	2
6	PAOZZ	98003	HC207CE	CATCH,CLAMPING	2
7	XAOZZ	90598	26061-100	CASE, BOTTOM ASSY	1
8	PAOZZ	39428	3607T18	CHAIN	1
9	XDOZZ	39428	90177A216	RING,SPLIT STEEL	2
				END OF FIGURE	

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 99: BULK MATERIALS	
				FIG. BULK	
1	PAOZZ	39428	8962T12	CHAIN SAFETY	V
2	PAFZZ	81349	MILI23053-8	SLEEVE, INSULATING	V
				END OF FIGURE	

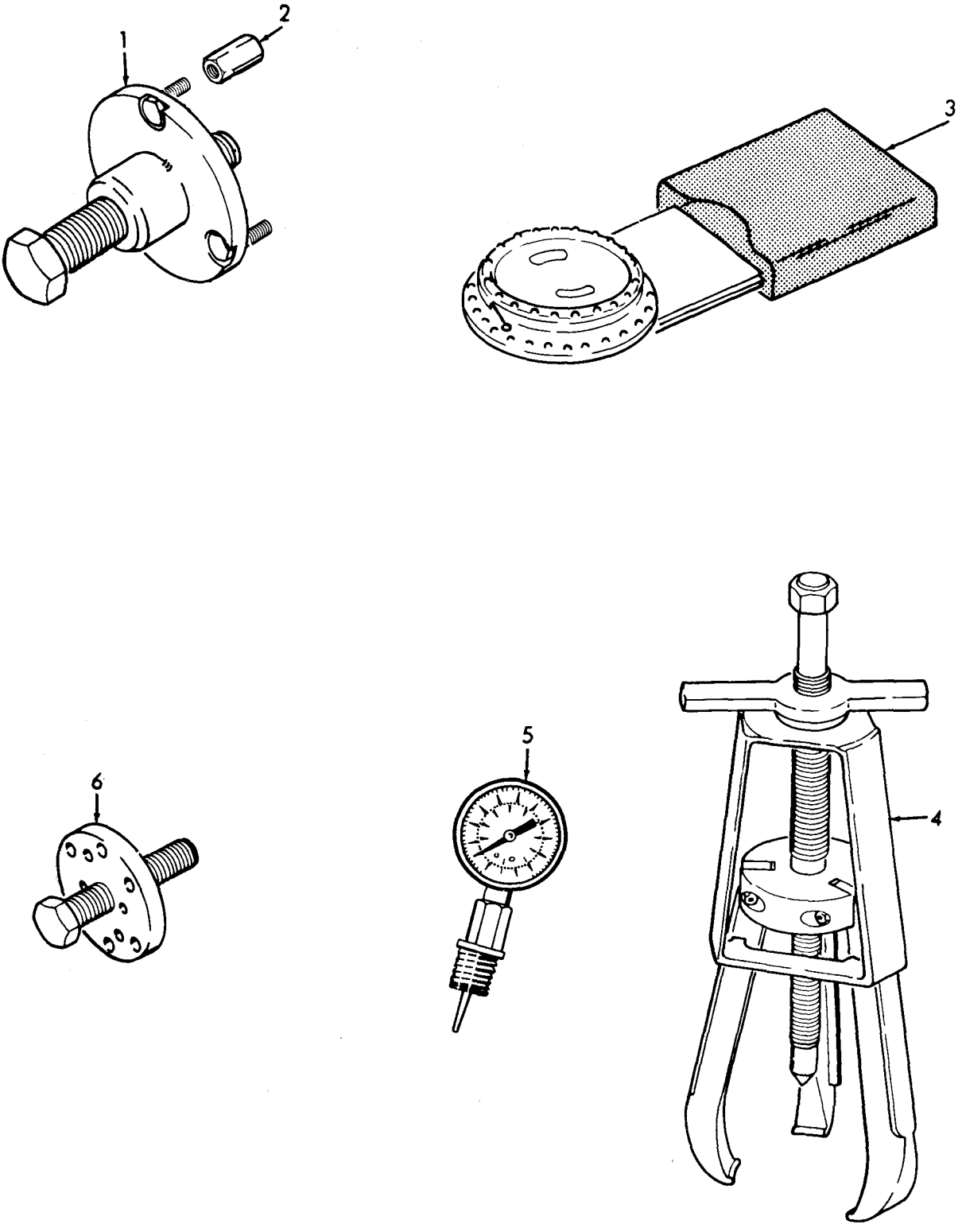


Figure B-27. Special Tools.

SECTION III

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 98: SPECIAL TOOLS	
				FIG.B-27 SPECIAL TOOLS	
1	PAFZO	59431	444.31.843.100	PULLER,FLYWHEEL	1
2	PAFZZ	59431	057.07.003.000	EXTENDER,PULLER NUT	3
3	PAOZZ	D0345	000-15-300-100	INDICATOR,ELECTRICA	1
4	PAFZZ	90598	19199-100	EXTRACTOR,FAN HUB	1
5	XDFZZ	53927	CM11190	GAGE,TIMING	1
6	PAFZZ	59431	444-31-825-010	PULLER,CLUTCH	1
				END OF FIGURE	

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
2910-00-057-1421	B-11	18	4230-01-171-0899	B-10	2
5310-00-061-4650	B-17	2	4230-01-171-0900	B-1	11
5310-00-081-4219	B-2	21	5120-01-171-2268	B-25	1
	B-16	3	4230-01-171-2417	B-1	2
5975-00-177-2819	B-14	27	4230-01-171-2473	B-3	18
5310-00-178-8631	B-3	5	4230-01-171-2531	B-1	9
5310-00-209-0786	B-11	47	4230-01-171-2540	B-16	5
	B-16	8	4230-01-171-2541	B-10	4
9340-00-230-0441	B-8	1	4230-01-171-2542	B-10	3
5940-00-230-0515	B-3	10	4230-01-171-2543	B-10	5
4730-00-230-1996	B-11	1	4230-01-171-2544	B-10	9
5120-00-240-5292	11	11	4230-01-171-2545	B-10	1
5310-00-264-1340	B-11	38	4230-01-171-2546	B-2	19
5120-00-293-0315	B-25	6	4230-01-171-2548	B-2	24
4730-00-317-4217	B-23	2	4230-01-171-2550	B-2	38
2910-00-360-4208	B-14	24	4230-01-171-2552	B-8	10
5310-00-579-5554	B-2	12	4230-01-171-2553	B-1	10
5305-00-724-5811	B-11	39	4230-01-171-2554	B-1	15
5120-00-737-7964	B-25	3	4230-01-171-2558	B-3	16
3030-00-789-0637	B-2	49	4230-01-171-2559	B-2	58
5310-00-809-4085	B-11	2	4230-01-171-2560	B-2	4
5310-00-809-8546	B-2	52	4230-01-171-2564	B-2	30
4730-00-817-6578	B-23	4	4230-01-171-2571	B-11	8
4730-00-821-8981	B-24	3	4230-01-171-2572	B-11	50
5310-00-823-8804	B-2	3	4230-01-171-2574	B-8	13
	B-3	25	4230-01-171-2575	B-2	60
	B-8	3	4230-01-171-2805	B-3	21
	B-9	10	4230-01-171-7253	B-1	13
	B-11	15	4230-01-172-0208	B-9	7
	B-14	3	5940-01-172-5374	B-14	20
	B-15	6	6210-01-172-5978	B-14	14
4730-00-851-3255	B-23	3	4140-01-172-8368	B-3	13
6150-00-923-2451	B-14	23	6210-01-173-2942	B-14	11
5340-00-934-0532	B-26	5	5310-01-173-6498	B-2	11
4730-00-948-1721	B-17	3		B-3	22
3030-00-983-6781	B-2	41		B-10	8
4820-01-012-3405	7	7		B-12	3
6240-01-032-3696	B-14	15	5310-01-173-6499	B-10	11
5310-01-078-2992	B-2	2	5310-01-173-6500	B-10	12
	B-3	11	5306-01-173-6501	B-2	56
	B-14	2	5305-01-173-6502	B-2	42
5340-01-090-0252	B-15	10	5306-01-173-6503	B-2	44
5120-01-102-4471	B-25	8	5355-01-173-6555	B-14	16
5360-01-133-6152	B-8	4	5330-01-173-6670	B-13	5
5120-01-159-7787	B-27	1		B-19	1
5120-01-159-7788	B-27	2	5330-01-173-6671	B-7	3
5120-01-159-7789	B-27	6		B-11	9
5120-01-159-7790	B-27	4	5330-01-173-6672	B-17	12
4820-01-167-7025	B-11	35	5330-01-173-6673	B-17	10
4820-01-171-0695	B-11	34	5330-01-173-6674	B-12	6

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5330-01-173-6674	B-18	6	5305-01-175-0394	B-3	17
	B-23	8	5310-01-175-0552	B-3	15
5340-01-173-6677	B-7	6	6685-01-175-0864	B-11	48
	B-11	6	6685-01-175-0867	B-14	26
5310-01-173-6717	B-11	37	6685-01-175-0868	B-14	9
5365-01-173-6756	B-2	23	5980-01-175-2501	B-9	8
4720-01-173-9491	B-22	4	4720-01-175-4459	B-11	5
4730-01-173-9511	B-7	15	4720-01-175-4460	B-11	20
4710-01-173-9525	B-23	7	4720-01-175-4461	B-11	19
6645-01-174-0858	B-2	32	4720-01-175-4462	B-11	23
5310-01-174-2535	B-14	21	4720-01-175-4463	B-11	44
5365-01-174-2536	B-14	7	4720-01-175-4464	B-11	46
5340-01-174-2537	B-2	53	4720-01-175-4465	B-11	40
5310-01-174-2539	B-2	45	4720-01-175-4466	B-11	36
5340-01-174-2541	B-17	14	4720-01-175-4467	B-11	25
4030-01-174-2542	B-17	16	4720-01-175-4468	B-11	4
4010-01-174-2544	B-26	8	4720-01-175-4469	B-11	11
5320-01-174-2545	B-26	2	4720-01-175-4470	B-9	3
5310-01-174-2559	B-2	48	2910-01-175-4813	B-7	1
	B-11	22	4720-01-175-4832	B-2	54
	B-16	4	4720-01-175-4858	B-7	12
5980-01-174-2608	B-9	2	4720-01-175-4859	B-7	13
5320-01-174-2621	B-26	4	4720-01-175-4860	B-11	30
5310-01-174-2727	B-3	19	4720-01-175-4861	B-17	18
5340-01-174-2764	B-16	9	4820-01-175-5076	B-11	41
4730-01-174-4101	B-13	4	4810-01-175-6143	B-11	43
	B-18	5	4720-01-175-6344	B-7	14
4330-01-174-4156	B-11	17	4730-01-175-6362	B-11	31
5305-01-174-4534	B-14	17	4730-01-175-6367	B-24	6
5315-01-174-6169	B-2	47	5340-01-175-6585	B-26	3
5930-01-174-7521	B-14	13	5306-01-175-6637	B-16	6
5930-01-174-8604	B-14	10	5306-01-175-6638	B-16	2
4720-01-174-8889	B-7	2	5306-01-175-6639	B-2	1
4720-01-174-8890	B-7	9		B-3	12
4730-01-174-8891	B-17	5		B-8	2
4730-01-174-8897	B-1	12		B-11	45
4730-01-174-8927	B-11	3	5305-01-175-6804	B-9	6
4730-01-174-8929	B-11	12	5310-01-175-6849	B-2	59
5306-01-175-0345	B-14	6		B-10	7
5306-01-175-0346	B-2	39		B-12	2
5306-01-175-0347	B-2	26	5340-01-175-6894	B-16	10
5306-01-175-0348	B-2	22	4730-01-176-0577	B-17	13
	B-15	1	4730-01-176-1091	B-24	4
5306-01-175-0350	B-11	13	4730-01-176-1092	B-23	9
5306-01-175-0351	B-11	16	2910-01-176-1175	B-7	7
5306-01-175-0352	B-8	9	5120-01-176-1803	B-25	7
5306-01-175-0353	B-8	7	5120-01-176-1828	B-25	4
5305-01-175-0354	B-2	40	3020-01-176-2769	B-2	46
5306-01-175-0355	B-2	13	4330-01-176-2949	B-17	9
5310-01-175-0393	B-3	14	4720-01-176-5844	B-7	11

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NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
4730-01-177-1018	B-24	5	2990-12-304-3419	B-4	14
5940-01-177-3938	B-14	19	2805-12-304-3555	B-4	11
5306-01-177-9696	B-2	27	2990-12-304-3556	B-4	55
	B-9	9	2930-12-304-3787	B-4	53
	B-14	1	2805-12-304-3788	B-4	32
	B-15	5	2805-12-304-3789	B-4	3
	B-16	7	2805-12-304-3790	B-4	29
5340-01-179-2016	B-3	4	2910-12-304-3975	B-4	41
4730-01-179-2578	B-20	4	3010-12-304-4859	B-4	21
4730-01-179-3028	B-23	5	2910-12-304-5448	B-5	14
5360-01-180-5363	B-12	4	2910-12-304-5451	B-5	11
5340-01-182-7616	B-26	6	2910-12-304-5453	B-5	6
6150-01-182-8216	B-16	12	4730-12-304-6549	B-4	68
4730-01-185-9454	B-11	33	2805-12-304-8215	B-4	8
2805-01-186-3715	B-3	3	2910-12-304-8512	B-4	26
4530-01-186-9442	B-11	27	4730-25-120-8317	B-18	4
7240-01-193-8554	B-7	4	4730-25-120-8318	B-20	1
5330-01-195-8922	B-4	33	4730-25-120-8341	B-13	1
5330-01-195-8923	B-4	13	4730-25-120-8342	B-7	10
5330-01-195-8924	B-4	7		B-11	29
5330-01-195-8925	B-4	30	4730-25-120-8343	B-11	28
5340-01-196-7740	B-6	3	4730-25-120-8345	B-11	21
5310-01-197-0654	B-4	60	4730-25-120-8346	B-11	14
5315-01-197-0822	B-4	31	4730-25-120-8347	B-11	51
5310-01-197-3042	B-4	1	4730-25-120-8348	B-11	42
5306-01-197-5980	B-6	1	4730-25-120-8352	B-22	3
5307-01-198-5458	B-4	4	4730-25-120-8353	B-20	3
4730-01-199-7789	B-17	1	4730-25-120-8354	B-21	1
4230-01-200-8002	B-2	51	4730-25-120-8355	B-22	5
2910-01-200-9027	B-7	8			
6680-01-201-0638	B-27	3			
5330-01-205-2659	B-5	12			
5910-01-212-1481	B-4	46			
5930-01-212-7164	B-4	64			
2920-01-212-7655	B-4	51			
2910-01-217-4575	B-4	34			
2910-01-217-9582	B-5	10			
2920-01-217-9583	B-4	47			
2920-01-217-9584	B-4	65			
2805-01-217-9587	B-4	39			
2920-01-217-9670	B-4	45			
2920-01-217-9676	B-4	44			
2940-01-217-9696	B-5	1			
2920-01-217-9717	B-4	52			
2805-01-217-9736	B-4	57			
2805-01-219-9208	B-4	9			
5310-01-242-1790	B-2	55			
	B-15	2			
2920-12-153-1888	B-4	43			
2805-12-304-2728	B-4	10			

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FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
12623	B-ORM2W/A-5K14B	4820-01-171-0695	B-11	34
73061	B4T26	4730-00-851-3255	B-23	3
12623	B45XF8	4820-01-012-3405	7	7
53927	CM11190		B-27	5
65814	DS-6B	5120-00-293-0315	B-25	6
59730	ET5M	5340-01-173-6677	B-7	6
			B-11	6
N1384	EV282BX1/4X1/4		B-3	1
			B-8	8
			B-11	26
N1384	EV283X1/4X3/8		B-9	4
55719	FSM-241	5120-01-102-4471	B-25	8
55524	F20-30	4730-01-176-0577	B-17	13
76444	F80BPS-12GPH-60D EG		B-8	12
98003	HC207CE	5340-01-182-7616	B-26	6
98003	HC227ZE	5340-01-090-0252	B-15	10
98003	H561LS2RG	5340-00-934-0532	B-26	5
76444	H730C		B-8	11
84830	LE-049D-6SS	5360-01-133-6152	B-8	4
84830	LE-055E-8SS	5360-01-180-5363	B-12	4
81349	MILI23053-8		BULK	2
90526	MJCV1	4820-01-167-7025	B-11	35
N0844	MPY12H49	5980-01-175-2501	B-9	8
96906	MS25036-154	5940-00-230-0515	B-3	10
96906	MS27025-7	4730-00-948-1721	B-17	3
96906	MS27030-4		B-17	4
96906	MS27183-12	5310-00-081-4219	B-2	21
			B-16	3
96906	MS27183-16	5310-00-809-4085	B-11	2
96906	MS27183-8	5310-00-809-8546	B-2	52
96906	MS27183-9	5310-00-823-8804	B-2	3
			B-3	25
			B-8	3
			B-9	10
			B-11	15
			B-14	3
			B-15	6
96906	MS35333-135	5310-01-078-2992	B-2	2
			B-3	11
			B-14	2
96906	MS35333-35	5310-00-579-5554	B-2	12
96906	MS35333-75	5310-00-178-8631	B-3	5
96906	MS35333-77	5310-00-264-1340	B-11	38
96906	MS35335-33	5310-00-209-0786	B-11	47
			B-16	8
96906	MS35842-126		B-2	6
96906	MS39277-045	3030-00-789-0637	B-2	49
96906	MS51943-31	5310-00-061-4650	B-17	2
96906	MS51964-136		B-2	17
96906	MS51964-64	5305-00-724-5811	B-11	39

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FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
96906	M527183-9		B-11	52
D0345	002-44-465-900		B-4	37
70673	P75	9340-00-230-0441	B-8	1
11583	RL87YC		B-4	35
			B-8	14
U3697	RS1012	4230-01-171-2572	B-11	50
62887	RZ52H	6645-01-174-0858	B-2	32
98003	SC-D20650-14CE		B-15	9
07707	SSD43BS	5320-01-174-2621	B-26	4
07707	SSD64BS	5320-01-174-2545	B-26	2
61501	TYGON5-81DX7-80D		B-24	1
28520	UB875	5975-00-177-2819	B-14	27
41947	W1431	4730-00-821-8981	B-24	3
55524	Y45-238	4330-01-176-2949	B-17	9
37833	ZB2BJ3	5355-01-173-6555	B-14	16
37833	ZB2BL4	5930-01-174-7521	B-14	13
37833	ZB2BV05	6210-01-172-5978	B-14	14
37833	ZB2BV6	6210-01-173-2942	B-14	11
37833	ZB2BZ104	5930-01-174-8604	B-14	10
37833	ZB2BZ106		B-14	12
D0345	000-15-300-100	6680-01-201-0638	B-27	3
D0345	000-35-000-700		B-4	69
90598	000-35-010-040	5310-01-197-0654	B-4	60
D0345	000-39-114-230		B-4	17
D0345	000-40-302-270	5315-01-197-0822	B-4	31
D0345	000-40-510-050		B-4	50
D0345	000-40-621-250		B-4	12
D0345	000-40-645-040		B-4	49
D0345	000-40-645-060		B-4	28
D0345	000-40-645-080		B-4	6
D0345	000-40-645-100		B-4	2
D0345	000-40-645-160		B-4	22
D0345	000-40-675-270		B-4	58
D0345	000-40-840-630		B-4	20
D0345	000-40-890-200		B-4	62
D0345	000-41-010-680		B-4	54
D0345	000-41-010-700		B-4	59
D0345	000-41-010-710		B-4	27
D0345	000-41-010-940		B-4	70
D0345	000-41-011-240		B-4	19
D0345	000-41-060-450		B-4	42
D0345	000-41-270-920		B-4	15
D0345	000-41-270-970		B-4	16
D0345	000-41-271-160	5307-01-198-5458	B-4	4
D0345	000-41-500-820		B-5	9
D0345	000-41-500-990		B-4	48
D0345	000-41-951-050		B-4	23
D0345	000-41-970-080		B-4	40
D0345	000-41-970-100		B-4	5
D0345	000-41-970-110		B-4	25
D0345	000-42-142-800	2805-01-219-9208	B-4	9

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FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
D0345	000-42-144-770	2805-12-304-8215	B-4	8
D0345	000-43-051-240	2805-01-217-9736	B-4	57
D0345	000-43-053-720	2920-01-217-9676	B-4	44
D0345	000-43-055-700	2920-01-217-9670	B-4	45
D0345	000-43-062-340	2920-01-212-7655	B-4	51
D0345	000-43-063-120	2920-12-153-1888	B-4	43
D0345	000-43-065-350	5910-01-212-1481	B-4	46
D0345	000-43-084-010	2920-01-217-9717	B-4	52
D0345	002-44-090-920	2920-01-217-9583	B-4	47
D0345	002-44-151-000		B-4	36
D0345	002-44-306-400		B-4	38
D0345	002-44-329-000	5930-01-212-7164	B-4	64
D0345	002-44-435-900		B-4	66
D0345	002-44-445-900		B-4	67
D0345	002-44-469-900		B-4	63
D0345	002-45-033-900		B-5	4
D0345	002-45-041-900		B-5	5
D0345	002-45-051-000		B-5	3
D0345	002-45-070-000	2910-12-304-5448	B-5	14
D0345	002-45-087-900	5330-01-205-2659	B-5	12
D0345	002-45-123-000		B-5	13
D0345	002-45-352-180	2910-12-304-5451	B-5	11
D0345	002-45-360-900	4730-12-304-6549	B-4	68
D0345	002-45-403-160		B-5	8
D0345	002-45-470-320	2910-01-217-9582	B-5	10
D0345	002-45-575-000	2910-12-304-5453	B-5	6
D0345	002-45-616-770		B-5	7
D0345	002-46-809-000	2940-01-217-9696	B-5	1
D0345	002-46-903-000	2910-01-217-4575	B-4	34
D0345	002-80-197-500	2805-01-186-3715	B-3	3
N0844	05-02-05	2910-01-200-9027	B-7	8
59431	057.07.003.000	5120-01-159-7788	B-27	2
82247	1-4HH6.5	4730-01-179-2578	B-20	4
82247	1-4HH6-5		B-21	3
			B-22	6
82247	1-7N16	4730-01-177-1018	B-24	5
N0844	10-02-03	4730-25-120-8318	B-20	1
D0345	102-11-329-000	2920-01-217-9584	B-4	65
D0345	102-20-069-000		B-5	2
D0345	102-41-279-000	5340-01-196-7740	B-6	3
D0345	102-41-299-100	5306-01-197-5980	B-6	1
D0345	102-41-469-000		B-6	4
D0345	102-41-719-000		B-4	61
N1384	1020-270X1-4	4820-01-175-5076	B-11	41
79470	1070X6X2	4730-01-175-6362	B-11	31
72661	11	4730-01-199-7789	B-17	1
56926	11910	5330-01-173-6671	B-7	3
			B-11	9
N0844	12-01-08	4730-25-120-8317	B-18	4
32402	122R-ED	4730-01-175-6367	B-24	6
21877	146381	6240-01-032-3696	B-14	15

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FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
73631	1512W	5940-01-172-5374	B-14	20
81300	160XL037	3030-00-983-6781	B-2	41
N1384	191B1X1		B-13	2
90598	19199-100	5120-01-159-7790	B-27	4
90598	195-07-013-000	5310-01-197-3042	B-4	1
D0345	197.05.903.000	2805-12-304-2728	B-4	10
D0345	197-05-002-000	2805-12-304-3555	B-4	11
D0345	197-05-003-100		B-4	18
90598	197-07-002-200	5330-01-195-8924	B-4	7
D0345	197-07-015-100	2805-12-304-3789	B-4	3
D0345	197-07-020-000	5330-01-195-8925	B-4	30
D0345	197-07-022-000	5330-01-195-8923	B-4	13
D0345	197-07-023-100	2805-12-304-3790	B-4	29
D0345	197-07-026-000	5330-01-195-8922	B-4	33
D0345	197-07-804-100	2805-12-304-3788	B-4	32
D0345	197-14-009-210		B-4	56
D0345	197-14-015-210	2930-12-304-3787	B-4	53
D0345	197-15-004-100	2805-01-217-9587	B-4	39
D0345	197-15-805-000	2910-12-304-3975	B-4	41
D0345	197-18-817-300	2910-12-304-8512	B-4	26
D0345	197-29-809-000	2990-12-304-3419	B-4	14
D0345	197-41-834-000	2990-12-304-3556	B-4	55
D0345	197-59-801-000		B-4	24
73631	247A10-12	5940-01-177-3938	B-14	19
90598	26000-23		B-1	18
90598	26000-24		B-1	19
90598	26001-1		B-2	16
90598	26002-1		B-2	15
90598	26003-1	4230-01-171-2564	B-2	30
90598	26004-1		B-2	50
90598	26005-100		B-1	4
90598	26006-100		B-1	3
90598	26007-101		B-18	2
90598	26010-100	4230-01-171-7253	B-1	13
90598	26020-100	4730-01-174-8897	B-1	12
90598	26021-100		B-23	1
90598	26022-2		B-23	6
90598	26022-4	4710-01-173-9525	B-23	7
90598	26041-100	4230-01-171-2531	B-1	9
90598	26042-100	4230-01-171-2553	B-1	10
90598	26043-100	4230-01-171-0900	B-1	11
90598	26044-1		B-20	2
90598	26045-1		B-21	2
90598	26046-1		B-22	2
90598	26047-1	4720-01-173-9491	B-22	4
90598	26051-100	4730-01-174-8891	B-17	5
90598	26051-11		B-17	15
90598	26052-1		B-17	7
90598	26053-1		B-17	8
90598	26054-1	5330-01-173-6672	B-17	12
90598	26054-2	5330-01-173-6673	B-17	10

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FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
90598	26055-1		B-17	11
90598	26056-1	5340-01-174-2541	B-17	14
90598	26057-1		B-17	17
90598	26060-100	4230-01-171-2554	B-1	15
90598	26061-100		B-26	7
90598	26067-100		B-26	1
90598	26068-1	5340-01-175-6585	B-26	3
90598	26070-1	5120-01-171-2268	B-25	1
90598	26070-10		B-25	10
90598	26070-100		B-1	14
90598	26070-12	5120-00-240-5292	11	11
			B-25	12
90598	26070-13		B-25	14
90598	26070-14		B-25	13
90598	26070-2		B-25	2
90598	26070-3	5120-00-737-7964	B-25	3
90598	26070-4	5120-01-176-1828	B-25	4
90598	26070-7	5120-01-176-1803	B-25	7
90598	26071-100		B-1	5
90598	26080-100	4230-01-171-2417	B-1	2
90598	26090-101		B-1	16
90598	26090-7		B-1	17
08645	26099	6150-00-923-2451	B-14	23
90598	26100-102		B-1	1
90598	26200-100	4230-01-171-2559	B-2	58
90598	26201-1	4230-01-171-2545	B-10	1
90598	26202-100	4230-01-171-2544	B-10	9
90598	26203-100	4230-01-171-2543	B-10	5
90598	26204-1	4230-01-171-0899	B-10	2
90598	26205-100	4230-01-171-2541	B-10	4
90598	26206-100	4230-01-171-2542	B-10	3
90598	26207-1	5310-01-173-6499	B-10	11
90598	26208-1	5310-01-173-6500	B-10	12
90598	26210-100		B-10	10
90598	26230-100	4230-01-171-2550	B-2	38
90598	26240-1	3020-01-176-2769	B-2	46
90598	26250-100	4230-01-171-2546	B-2	19
90598	26254-1		B-2	18
90598	26260-100		B-2	9
90598	26270-101		B-2	7
90598	26271-101		B-13	3
90598	26291-1	5365-01-173-6756	B-2	23
90598	26292-1	4230-01-171-2548	B-2	24
90598	26300-100		B-2	35
90598	26302-100	7240-01-193-8554	B-7	4
90598	26305-1	2910-01-175-4813	B-7	1
90598	26306-1	4720-01-174-8889	B-7	2
90598	26307-100	2910-01-176-1175	B-7	7
90598	26310-1	4720-01-174-8890	B-7	9
90598	26311-1	4720-01-175-4858	B-7	12
90598	26312-1	4720-01-175-4859	B-7	13

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FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
90598	26313-1	4720-01-176-5844	B-7	11
90598	26314-1		B-7	5
90598	26315-1	4730-01-173-9511	B-7	15
90598	26316-1	4720-01-175-6344	B-7	14
90598	26400-100		B-2	36
90598	26403-1	4810-01-175-6143	B-11	43
90598	26407-1	6685-01-175-0864	B-11	48
90598	26408-1		B-11	10
90598	26409-1	4720-01-175-4459	B-11	5
90598	26410-1	4720-01-175-4460	B-11	20
90598	26411-1	4720-01-175-4461	B-11	19
90598	26412-1	4720-01-175-4462	B-11	23
90598	26413-1	4720-01-175-4463	B-11	44
90598	26414-1	4720-01-175-4464	B-11	46
90598	26415-1	4720-01-175-4465	B-11	40
90598	26416-1	4720-01-175-4466	B-11	36
90598	26417-1	4720-01-175-4467	B-11	25
90598	26418-1	4720-01-175-4468	B-11	4
90598	26419-1	4720-01-175-4469	B-11	11
90598	26420-1		B-11	7
90598	26421-1	4730-01-174-8929	B-11	12
90598	26422-1	4720-01-175-4860	B-11	30
90598	26423-1	4730-01-174-8927	B-11	3
90598	26424-100	4230-01-171-2571	B-11	8
90598	26426-1	5310-01-173-6717	B-11	37
90598	26427-1	4730-01-185-9454	B-11	33
90598	26430-100	4230-01-200-8002	B-2	51
90598	26450-100		B-2	57
90598	26451-100	4230-01-171-2574	B-8	13
90598	26452-1	4230-01-171-2552	B-8	10
90598	26467-1		B-2	43
90598	26468-1		B-12	5
90598	26470-100	4230-01-171-2575	B-2	60
90598	26472-100		B-2	60
90598	26473-1	5980-01-174-2608	B-9	2
90598	26474-1	4720-01-175-4470	B-9	3
90598	26475-100	4230-01-172-0208	B-9	7
90598	26477-100		B-9	5
90598	26478-1		B-9	1
90598	26500-102		B-2	8
90598	26500-14		B-16	13
90598	26501-102		B-16	11
90598	26502-1	4230-01-171-2540	B-16	5
90598	26504-1	5340-01-175-6894	B-16	10
90598	26505-1	5340-01-174-2764	B-16	9
90598	26506-1	5306-01-175-0355	B-2	13
90598	26510-100	4230-01-171-2560	B-2	4
90598	26520-100		B-2	10
90598	26520-12		B-3	7
90598	26520-13		B-3	9
90598	26521-100	5340-01-179-2016	B-3	4

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90598	26523-1		B-3	24
90598	26524-100	4140-01-172-8368	B-3	13
90598	26525-1		B-3	23
90598	26526-1	4230-01-171-2805	B-3	21
90598	26527-1	4230-01-171-2558	B-3	16
90598	26528-1	4230-01-171-2473	B-3	18
90598	26530-1		B-2	28
90598	26540-1		B-2	33
90598	26545-1	4720-01-175-4832	B-2	54
90598	26551-100		B-16	1
90598	26560-1	5340-01-174-2537	B-2	53
90598	26570-100		B-2	34
90598	26571-1		B-15	3
90598	26572-1		B-15	7
90598	26573-1		B-15	4
90598	26580-1		B-2	25
90598	26600-101		B-2	31
90598	26610-100		B-2	29
90598	26611-1		B-14	8
90598	26612-100		B-14	5
90598	26613-100		B-14	25
90598	26614-1	6685-01-175-0867	B-14	26
90598	26615-100	6685-01-175-0868	B-14	9
90598	26616-1		B-14	4
90598	26617-1		B-14	18
90598	26618-1	5365-01-174-2536	B-14	7
90598	26619-100	6150-01-182-8216	B-16	12
90598	26650-1	4720-01-175-4861	B-17	18
90598	26650-100		B-1	6
90598	26660-102		B-1	7
90598	26660-12		B-18	3
90598	26663-1		B-18	19
90598	26663-10		B-18	9
90598	26663-100		B-18	14
90598	26663-101		B-18	7
90598	26663-11		B-18	10
90598	26663-12		B-18	12
90598	26663-13		B-18	8
90598	26663-2		B-18	17
90598	26663-3		B-18	18
90598	26663-5		B-18	16
90598	26663-6		B-18	15
90598	26663-9		B-18	13
90598	26664-2		B-18	11
90598	26670-102		B-1	8
N1384	267X4X6	4730-25-120-8352	B-22	3
90598	26701-1	5310-01-175-6849	B-2	59
			B-10	7
			B-12	2
90598	26701-2	5310-01-174-2539	B-2	45
90598	26701-3	5310-01-174-2727	B-3	19

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
90598	26702-1	5305-01-175-6804	B-9	6
90598	26703-407	5306-01-175-0348	B-2	22
			B-15	1
90598	26703-505	5306-01-177-9696	B-2	27
			B-9	9
			B-14	1
			B-15	5
			B-16	7
90598	26703-507	5306-01-175-6639	B-2	1
			B-3	12
			B-8	2
			B-11	45
90598	26703-508	5306-01-175-0347	B-2	26
90598	26703-509	5306-01-175-0346	B-2	39
90598	26703-514	5306-01-175-0345	B-14	6
90598	26703-519		B-10	6
90598	26703-572		B-2	14
90598	26703-709		B-2	20
90598	26703-711	5306-01-175-6638	B-16	2
90598	26703-713	5306-01-175-0351	B-11	16
90598	26703-719	5306-01-175-6637	B-16	6
90598	26703-807	5306-01-175-0350	B-11	13
90598	26703-809	5306-01-173-6503	B-2	44
90598	26705-400	5310-01-242-1790	B-2	55
			B-15	2
			B-15	8
90598	26705-500	5310-01-173-6498	B-2	11
			B-3	22
			B-10	8
			B-12	3
90598	26705-700	5310-01-174-2559	B-2	48
			B-11	22
			B-16	4
90598	26705-800	5310-01-175-0393	B-3	14
90598	26706-87	5305-01-175-0354	B-2	40
90598	26707-707		B-3	6
90598	26707-719	5305-01-173-6502	B-2	42
90598	26708-505	5306-01-173-6501	B-2	56
90598	26708-506		B-12	1
90598	26708-509	5306-01-175-0352	B-8	9
90598	26708-514	5306-01-175-0353	B-8	7
90598	26709-504		B-3	20
90598	26711-800	5310-01-175-0552	B-3	15
90598	26712-304	5305-01-175-0394	B-3	17
N1384	286B X 1/4	4730-25-120-8342	B-11	29
N1384	286BX1/4	4730-25-120-8342	B-7	10
			B-8	6
N1384	286BX3/8		B-11	32
08645	290568	2910-00-360-4208	B-14	24
82247	3-8P1530	4730-01-179-3028	B-23	5
N1384	300X4	4730-25-120-8348	B-11	42

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
N1054	311X8F		B-22	1
N1054	311X8F M/HYLSE	4730-25-120-8353	B-20	3
N1054	311X8M	4730-25-120-8354	B-21	1
79470	3220X8X6	4730-00-817-6578	B-23	4
21340	3260620		B-3	8
79470	3326-2	4730-00-230-1996	B-11	1
39428	3607T18	4010-01-174-2544	B-26	8
N1384	370X3-8X1-4		B-11	24
N1384	3701/4X1/4		B-11	49
N1054	375X4	4730-25-120-8355	B-22	5
N1384	380X4	4730-25-120-8343	B-11	28
N1384	39FX5	4730-25-120-8346	B-11	14
N1384	392X4X4	4730-25-120-8347	B-11	51
N1384	394X1/4X1/8		B-8	5
73061	4S26	4730-00-317-4217	B-23	2
D0345	409-49-420-000	3010-12-304-4859	B-4	21
26848	40950		B-25	5
82647	4344-324-1		B-13	6
82647	4344-324-2		B-13	7
59431	444.31.843.100	5120-01-159-7787	B-27	1
59431	444-31-825-010	5120-01-159-7789	B-27	6
N1384	48FX5X4	4730-25-120-8345	B-11	21
39248	5241K57		B-2	5
U3697	583368180	4330-01-174-4156	B-11	17
39428	5916K32		B-24	2
N1384	60FX16	4730-25-120-8341	B-13	1
08645	66986		B-14	22
15526	6885-7-8-25	5315-01-174-6169	B-2	47
U3697	7111-296	2910-00-057-1421	B-11	18
U3697	73092B	4530-01-186-9442	B-11	27
15526	7985ST M3-16	5305-01-174-4534	B-14	17
39428	8962T12		BULK	1
59379	9000-000		B-24	8
59379	9000-0000	5330-01-173-6674	B-12	6
			B-18	6
			B-23	8
59379	9000-0268	5330-01-173-6670	B-13	5
			B-19	1
59379	9000-0301		B-20	5
59379	9000-0303	4730-01-174-4101	B-13	4
			B-18	5
59379	9000-0305	4730-01-176-1092	B-23	9
59379	9000-0306	4730-01-176-1091	B-24	4
39428	90177A216		B-26	9
39428	943K13	4030-01-174-2542	B-17	16
39428	9651K61		B-17	6
15526	985ST M3	5310-01-174-2535	B-14	21

APPENDIX C

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

C-1. SCOPE.

This appendix lists expendable supplies and materials you will need to maintain the Decontaminating Apparatus: Power-Driven, Portable, Type A/E32U-8. These items are authorized to you by CTA 50-970, Expendable Items (except Medical, Class V, Repair Parts and Heraldic Items).

C-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 compound, locking, item 2, Appendix C").

b. Column 2 - Category. This column identifies the lowest category of maintenance that requires the listed item:

C - Operator/Crew Maintenance
O - Organizational Maintenance
F - Direct Support Maintenance
H - General Support Maintenance

Column 3 - National Stock Number. This is the national stock number assigned to the item; use it to request or requisition the item(s).

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

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

SECTION II. EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

ITEM NUMBER	CATEGORY	STOCK NUMBER	DESCRIPTION	U/M
1	F	8020-00-889-7920	BRUSH, VARNISH	EA
2	F	8030-01-063-7510	SEALING COMPOUND	OZ
3	F		GREASE, BEARING	LB
4	F	9150-00-082-7535	LUBRICATING OIL:30W	QT
5	F	6850-00-281-1985	SOLVENT, CLEANING: DRY CLEANING, P-D-680	GL
6	F	5976-00-111-3208	TIE WRAP, PLASTIC	EA
7	O	5230-00-192-5051	CLOTH, ABRASIVE	PKG

APPENDIX D

ILLUSTRATED LIST OF MANUFACTURED PARTS

D-1 . GENERAL.

This appendix includes complete instruction for making items authorized to be manufactured or fabricated at direct support maintenance.

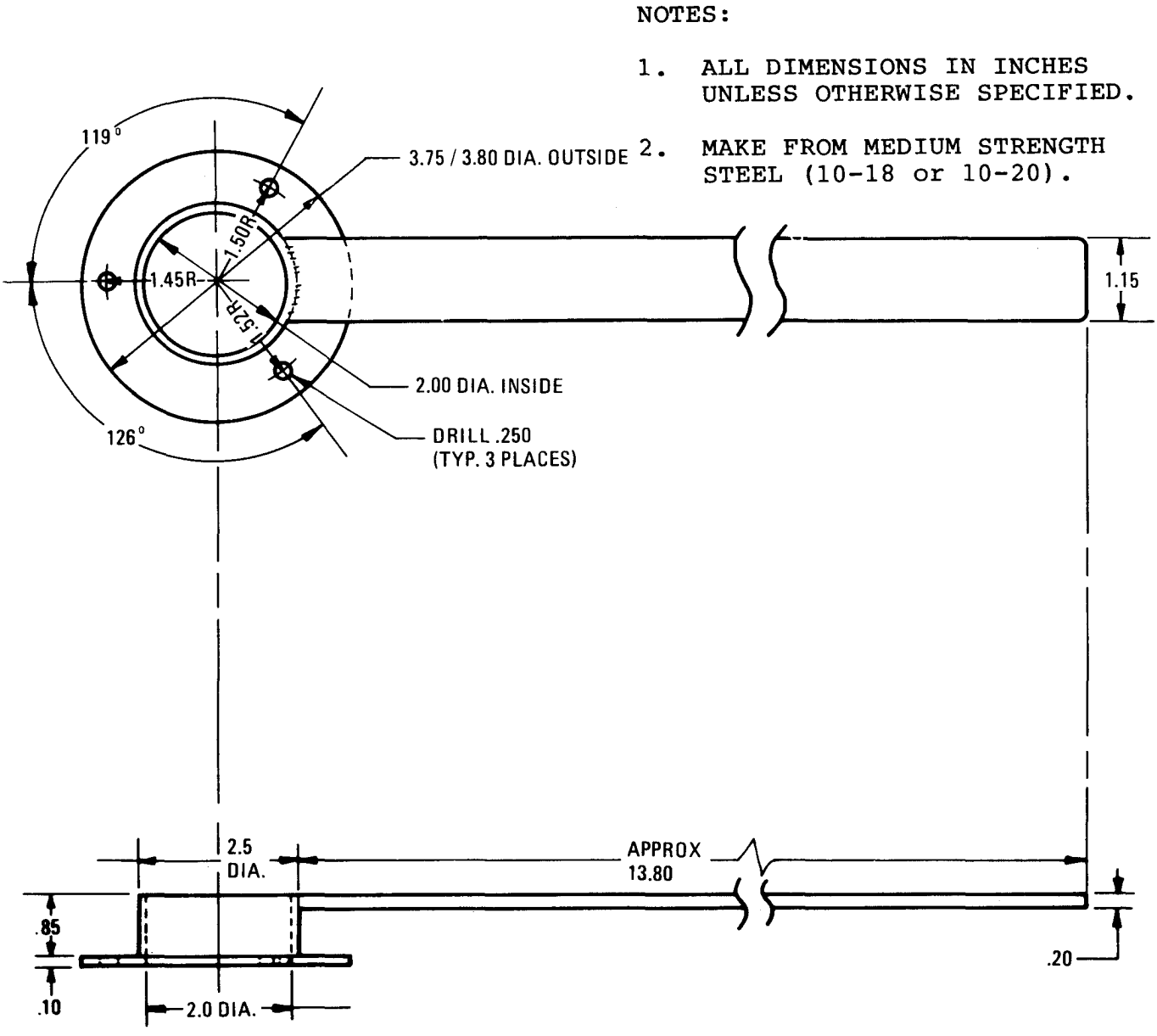

Figure D-1. Crankshaft Retainer.

NOTES:

1. ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.
2. MAKE FROM HARDENED TOOL STEEL.

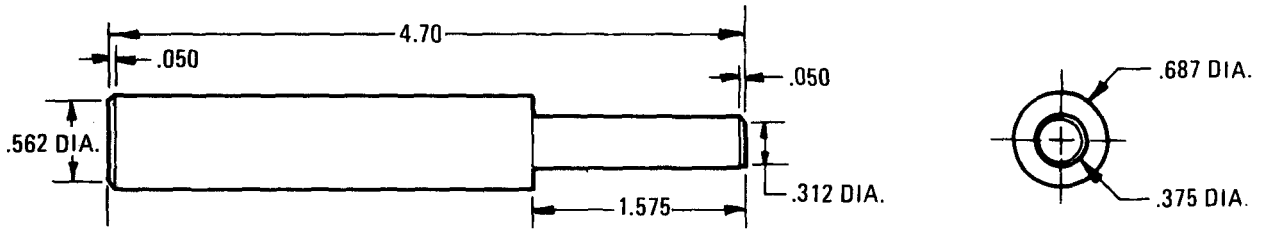

Figure D-2 . Wrist Pin Removal Tool.

NOTES:

1. ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.
2. MAKE FROM COMMON COMMERCIAL GRADE WOOD.

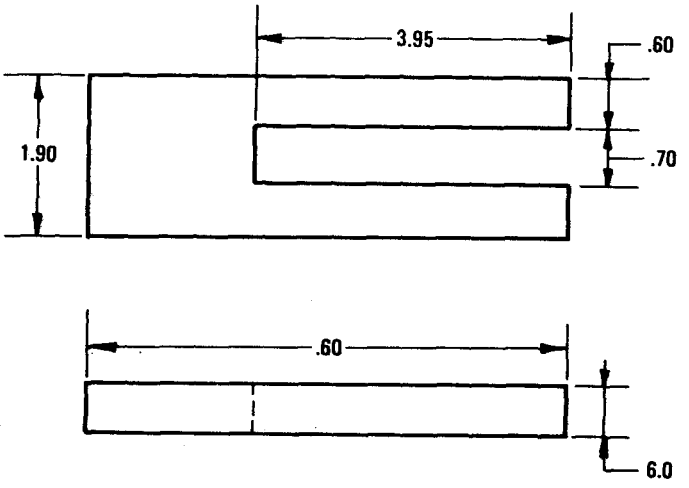

Figure D-3. Piston Retainer.

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INDEX - Continued

INDEX - Continued

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DATE SENT

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 3-4230-218-30&P	31 Aug 87	Direct Support Maint. Manual (Including RPSTL) for Decon Apparatus: Power-Driven, Portable, Type A/E32U-8

BE EXACT PIN-POINT WHERE IT IS

PAGE NO	PARAGRAPH	FIGURE NO	TABLE NO
2-70	c(7)h e(7)h		

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

Change step to read:

Secure lead (21) and tie wrap (item 6, Appendix C).

Reason: For accuracy.

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584-0000

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T. Cather

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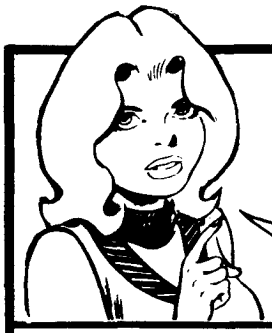

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