TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT,

AND GENERAL SUPPORT MAINTENANCE MANUAL

(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS)

FLAMETHROWER, PORTABLE, M2A1-7 FSN 1040-586-4560

WARNINGS

To prevent injury to personnel, stand to either side of the coupling plug prior to removal. A faulty pressure regulator could cause a pressure build-up in the fuel tanks. The pressure could blow the plug out with great force when the coupling cams are released.

To prevent burns, handle ignition cylinders with extreme care as they contain incendiary material.

To prevent burn casualties, keep the gun pointed away from friendly personnel at all times and never face the front of the gun.

Release the waist straps before firing to facilitate emergency disposal of the flamethrower during firing.

To prevent burns, protect the hands before handling the nozzle shield after firing.

During firing, the gunner must be alert against head winds that may blow the flame back on him.

To prevent eye injuries or accidental fires, do not use the hose if the 2-year service life is exhausted or if the 5-year storage life is exhausted.

To prevent eye injuries, vent the pressurized air from the air pressure system before attempting any maintenance or modification to the pressure system.

To prevent injury to personnel, slowly release the pressure on the inlet body to prevent the inlet body and springs under tension from flying off the needle valve. TECHNICAL MANUAL No. 3-1040-204-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 9 November 1973

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL

(Including Repair Parts and Special Tools Lists)

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

These instructions are for use by the operator, organizational, direct support, and general support maintenance personnel. They apply to the Flamethrower, Portable, M2A1-7.

1-2. Record and Report Forms

a. Department of the Army forms and pro-

cedures used for equipment maintenance will be those prescribed by TM 38-750.

b. The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded directly to Commander, Edgewood Arsenal, Attn: SAREA-DE-ET, Aberdeen Proving Ground, Md. 21010.

Section II. DESCRIPTION AND DATA

1-3. Description

The M2A1-7 flamethrower (fig. 1-1) is an individual assault weapon. It is used primarily in close combat as an antipersonnel weapon. The flamethrower projects a flaming rod of thickened fuel to produce casualties and destroy materiel. Two tanks contain the fuel and one tank contains the compressed air. The hose carries the fuel from the fuel tanks to the gun. The gun controls the flow and ignition of the fuel.

1-4. Gun

The gun (fig. 1–2) consists of a valve section and ignition section.

- a. Valve Section. The valve section includes the valve safety lever (3) and valve lever (4). An inner barrel and nozzle extend into the ignition section.
- b. Ignition Section. The ignition section includes the ignition safety lever (7), ignition lever (6), nozzle shield (8), and ignition cylinder (para 1-8). A shield latch (fig. 1-3) locks the removable nozzle shield in place. The two adjustment screws (5, fig. 1-2) permit the operator to rotate the ignition section for a more comfortable firing position.

1-5. Hose Assembly

The fabric-covered hose (2, fig. 1-2) has a quick-disconnect coupling half (1) at one end and a threaded coupling at the other end. The threaded coupling is connected to the gun valve section. The quick-disconnect coupling half (1) is connected to the fuel tank outlet coupling body (2, fig. 1-4).

1-6. Air Pressure Tank and Fuel Tanks

a. Air Pressure Tank

(1) Pressure tank and valve assembly. The pressure tank (2, fig. 1-5) is a cylindrical steel tank which contains the pressurized air for dispersing the fuel from the fuel tanks (b below). A pressure tank valve (fig. 1-6) assembly is screwed into the base of the pressure tank. The valve assembly contains a check valve and cap. The cap protects the check valve and is removed when the cylinder is to be recharged with air. A coupling plug is also assembled to the valve assembly. It is the direct connection for the quick-disconnect coupling half (fig. 1-7). The coupling plug (fig. 1-6) is covered with a cap when the pressure tank is disconnected from the quick-disconnect coupling half (fig. 1-7). A valve handle connected to the valve shaft operates a valve that controls the flow of pressurized air from the pressure tank. The



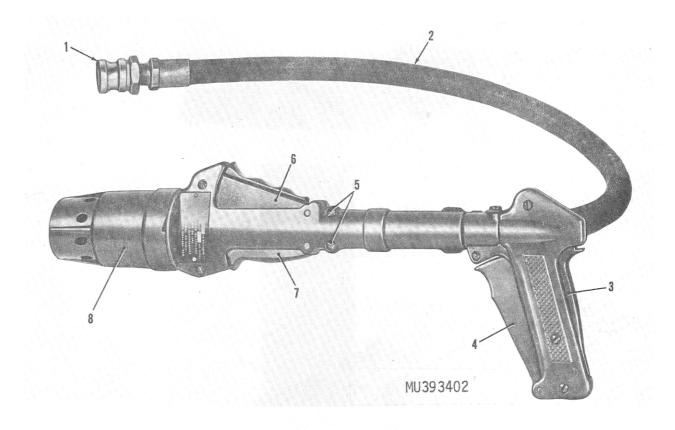
Figure 1-1. M2A1-7 portable flamethrower.

pressure tank is strapped to the fuel tanks (1, fig. 1-5). A hinged tank clamp (2) holds the pressure tank in place. The valve shaft (5) is clamped to the body of the fuel tank with a clamp and wingnut. For maximum efficiency, air pressure is between 1,700 psi and 2,100 psi.

(2) Pressure regulator and tube assembly. The pressure regulation reduces the air pressure coming from the pressure tank. One end of a tube

assembly (fig. 1-7) is connected to the inlet side of the pressure regulator. The other end of the tube contains a quick-disconnect coupling half. This coupling is the connection for the pressure tank coupling plug (fig. 1-6).

(3) Safety Valve. The safety valve (fig. 1-7) is connected to the outlet side of the pressure regulator. It contains the safety head and a fuel check valve. A disk in the safety head will rupture when



- Quick-disconnect coupling half Hose assembly

- 3 Valve safety lever 4 Valve lever 5 Screws

Figure 1-2. Gun and hose assembly.

- 6 Ignition lever7 Ignition safety lever8 Nozzle shield

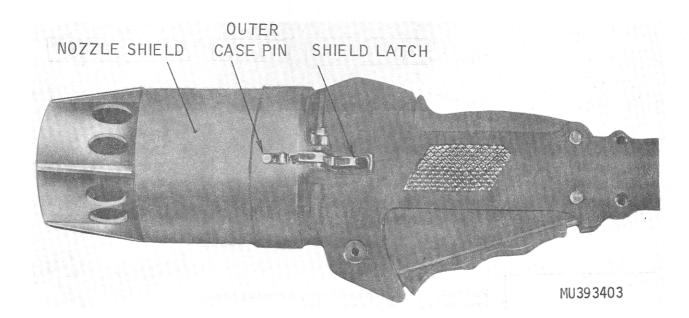
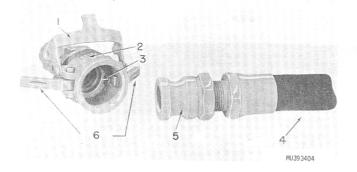


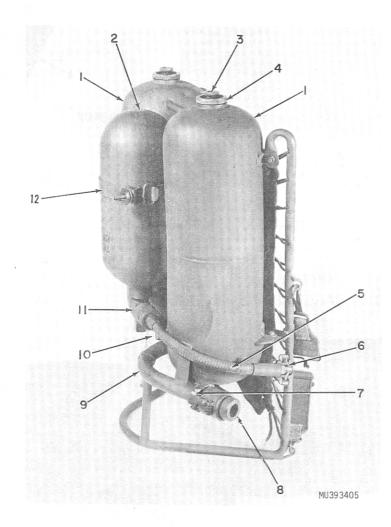
Figure 1-3. Nozzle shield, installed.



- Coupling lock Coupling body Gasket

- Hose
- Coupling Coupling cam

Figure 1-4. Tank coupling and fuel hose.



- Fuel tank
- Quick-disconnect coupling lock Coupling plug Fuel delivery pipe Tank connector Pressure tank valve Hinged tank clamp
- Pressure tank
 Bleeder valve
 Filling plug
 Valve shaft
 Valve handle
- 8
- 1 2 3 4 5 6
- 9
- 10
- 11 12

Figure 1-5. Pressure tank and fuel tanks.

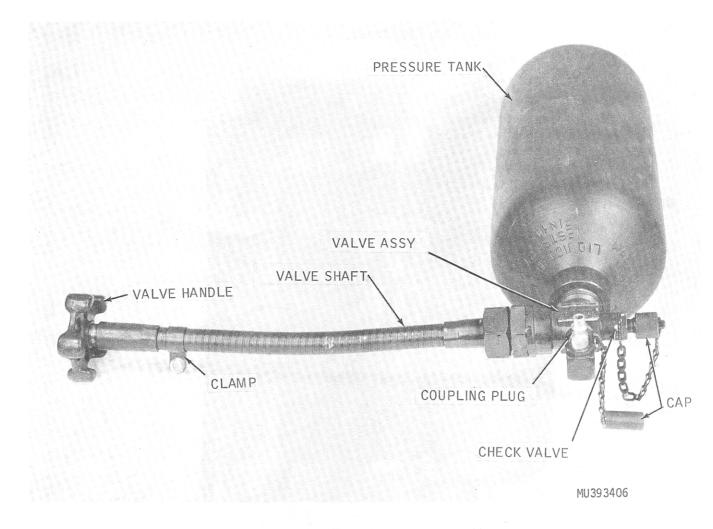


Figure 1-6. Pressure tank and valve assembly.

air pressure in the safety valve rises to a pressure between 525 and 625 psi. The fuel check valve in the safety valve closes when the safety head disk bursts. This prevents fuel from backing up into the regulator and allows the firing of one burst.

b. Fuel Tanks.

- (1) *Filling plug*. The filling plug (fig. 1–7) is screwed into the top of each fuel tank.
- (2) Fuel tanks. Two cylindrical tanks (fig. 1–7) are connected near the top by the interconnecting diffusion pipe and near the bottom by the interconnecting tank connector. The agent delivery pipe is welded to the interconnecting tank connector. The open end of the agent delivery pipe contains the quick-disconnect coupling for the quick-disconnect coupling half (1, fig. 1–2). A removable coupling plug (fig. 1–7) covers the open end of the delivery pipe when the hose is disconnected from the agent delivery pipe. The plug is stowed in the packing chest when not in use. A hinged clamp is welded to both tanks and is used to

hold the pressure tank in place. The clamp is locked in place by a wingnut.

(3) Carrier pack. The carrier pack (fig. 1–8) consists of a tubular frame, carrier, and strap assemblies. The carrier pack is attached to the tubular frame (7) with cotton cords (8). The upper shoulder straps are attached to pins (1). The lower shoulder straps, at one end, are attached to the lower part of the tubular frame. The upper and lower shoulder straps are connected together by quick-release fasteners (4). The body straps are attached at one end of the tubular frame and are connected by a breakaway buckle fastener. The carrier pack provides a means for the operator to conveniently carry the fuel tanks on his back during use and operation of the flamethrower.

1-7. Identification Plates

a. Gun. An identification plate (fig. 1–9) is riveted in back of the nozzle (fig. 1–2). The plate contains pertinent information on the gun.

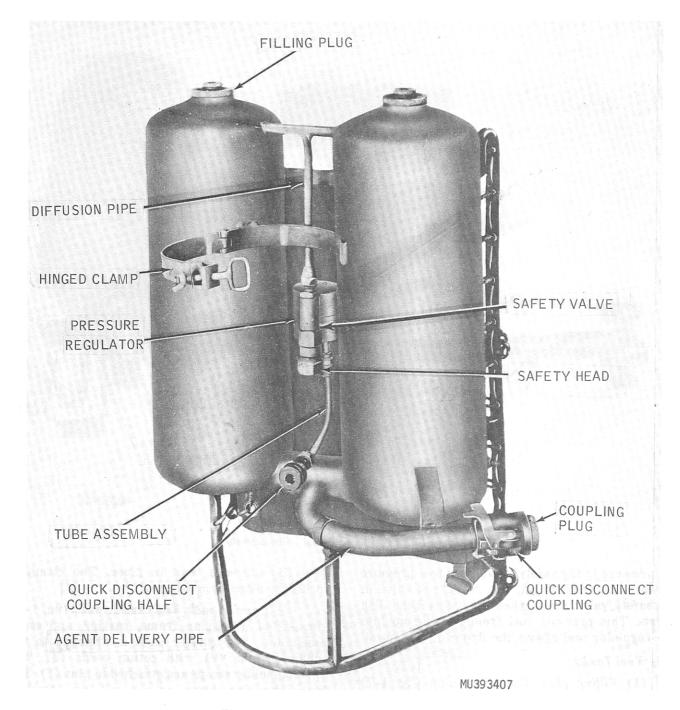


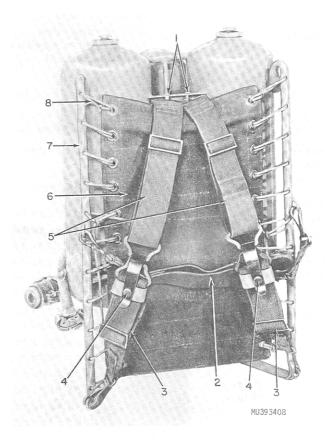
Figure 1-7. Pressure regulator and fuel tanks.

b. Tank. An identification plate (fig. 1-9) is riveted to the upper shoulder strap support, located between the fuel tanks. The plate contains pertinent information on the fuel tanks.

1-8. Ignition Cylinders

Two ignition cylinders (fig. 1–10) are not supplied with this equipment; they are requisitioned separately. The ignition cylinder contains five

matches (2), that are coated with a striker mix (9). The following are located next to each match: a matchhead mixture (7), starter pellets (6), black powder (10), and incendiary pellets (4). The incendiary pellets are spaced and separated in the ignition cylinder body to prevent igniting the other four matches. Lead-foil seals (5), plastic closure places (8), and cement, waterproof the ignition cylinder. When the ignition safety lever (7, fig. 1–2) and ignition lever (6) are squeezed, the



- Pins
- Body straps
- Lower shoulder straps
- Quick release fasteners
- Upper shoulder straps
- Carrier

Figure 1-8. Carrier pack.

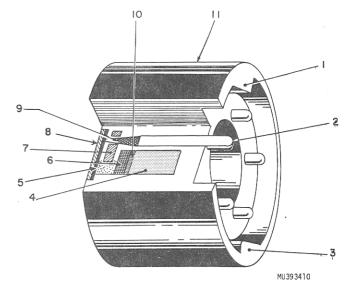
ignition pin of the gun moves forward and forces the next match forward to be ignited. As the match travels forward, its abrasive striker mix scratches and ignites the matchhead mixture. When the matchhead is ignited, it ignites the starter pellet, black powder, and incendiary pel-

let. The incendiary pellet burns for 8 to 12 seconds and ignites the fuel as it is discharged from the gun nozzle.

> GUN, PORTABLE FLAME THROWER, M7 STOCK NO. MANUFACTURED BY PART NO. D81-1-4920 CONTRACT NO. SERIAL NO. INSPECTED BY LOT NO. U.S. NAMEPLATE A. GUN

CHEMICAL CORPS U.S.A. PORTABLE FLAME THROWER FUEL TANK M2A1 (MANUFACTURER) SERIAL NO. LOT B. TANK NAMEPLATE MU393409

Figure 1-9. Identification plates.



Frame

Cord

- Stop Match
- $\overline{3}$ Stop 4
- Incendiary pellet Lead-foil seal
- Starter pellet
- Matchhead mixture
- Plastic closure plate
- 9 Striker mix 10 Black powder
- 11 Ignition cylinder body

Figure 1-10. Ignition cylinder.

1-9. Tabulated Data

(All data are approximate.)

	\sim	*
α	Genera	,

Range thickened fuel	40-50 meters
Range unthickened fuel	20-25 meters
Duration of fire	6-9 sec.

b. Weights.

M2A1-7 portable flamethrower packaged in packing chest	108 lb.
Flamethrower, empty (including gun and hose	41.25 lb.
*Flamethrower, filled with fuel	
(including gun and hose)	65-69 lb.
M2A1 tank group, empty (in-	
cluding coupling plug)	35 lb.
*M2A1 tank group, filled with	
fuel (including coupling plug)	58.5-62.5
M8 fuel hose	1.75 lb.
M7 flame gun	4.5 lb.
Pressure tank and valve (includ-	
ing valve shaft and handle)	10.25 lb.

c. Dimensions.

M2A1 fuel tank:	
Height	27 in.
Width	20 in.
Depth	11 in.
M8 fuel hose:	
Length	37½ in.
Inside diameter	¾ in.
M7 gun, length	21 in.
Packing chest	8.4 cu ft

d. Fuel capacity

e. Pressures.

Pressure tank	1,700-2.100 psi
Pressure regulator	. 300-350 psi
Safety head	525-625 psi
Fuel tank	_ 300-350 psi

f. Fuel Required for 100 Fillings.

Flamethrower fuel (including 5% spillage and evaporation) 500 gal.

1-10. Functioning

lb.

4% gal.

When the valve handle (fig. 1-11) is turned counterclockwise, the pressure tank valve opens and pressurized air is released from the pressure tank. Pressurized air passes through the pressure tank valve and into the regulator tube and pressure regulator, when the air pressure is reduced to operating pressure. The air then enters the safety valve, which consists of a safety head and a check valve. The safety head disk is designed to burst when the air pressure in the safety valve rises to a pressure of 525 to 625 psi. A check valve in the outlet end of the safety valve closes when the safety head disk bursts. This prevents fuel from backing up into the regulator and allows the firing of one burst. Pressurized air entering the fuel tank mixes with the fuel. The pressure forces the fuel through the fuel delivery pipe into the hose assembly through the gun where it is ignited upon ejection.

^{*}Weights vary with type of fuel.

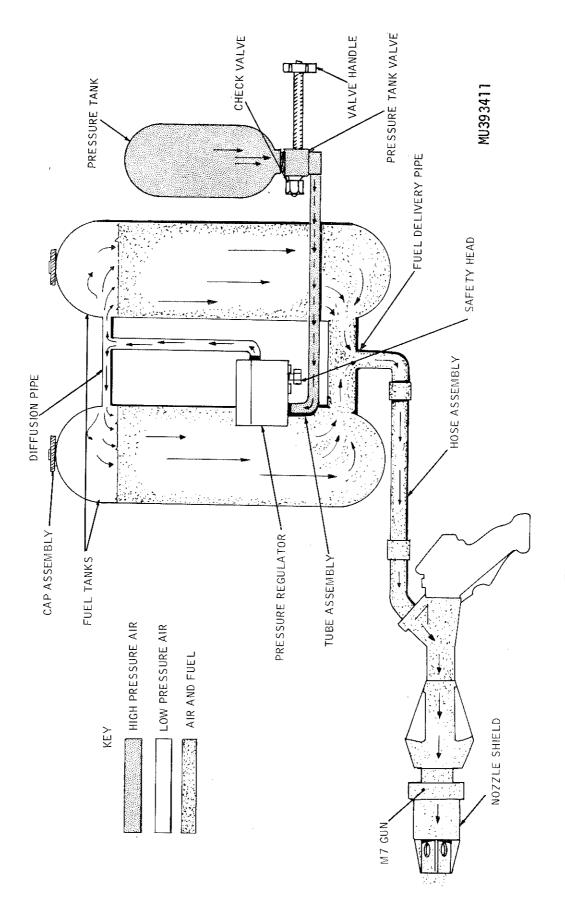


Figure 1-11. Fuel and air pressure system.

CHAPTER 2

OPERATING INSTRUCTIONS

Section I. CONTROLS

2-1. Pressure Tank Valve Handle

The pressure tank valve handle (6, fig. 1-5) is located at the lower right side of the fuel tank. It is located at the operator's right hip when he is carrying the fuel tank. The valve handle operates the pressure tank valve. Moving the handle counterclockwise opens the pressure tank valve and releases pressurized air to the fuel tanks. Moving the handle clockwise closes the valve.

2-2. Valve Safety Lever

The valve safety lever (3, fig. 1–2) is located in back of the valve lever (4). It locks the valve lever and prevents accidental release of fuel. The valve safety lever must first be depressed by the palm of the hand, before the valve lever can be operated to release fuel.

2-3. Valve Lever

The valve lever (4, fig. 1-2) is located in front of the valve safety lever (3). The valve lever controls the flow of fuel. To release fuel from the gun, squeeze the valve safety lever (3) and then squeeze the valve lever (4).

2-4. Ignition Safety Lever

The ignition safety lever (7, fig. 1-2) is located on the side of the ignition grip. It locks the ignition lever (6) and prevents the matches from igniting accidentally in the ignition cylinder (para 1-8).

2-5. Ignition Lever

The ignition lever (6, fig. 1–2) is located on the opposite side of the ignition safety lever (7). The ignition lever ignites each match individually as required. Before the ignition lever can be depressed to ignite each match, the ignition safety lever must be depressed.

2-6. Coupling Plug

A coupling plug (8, fig. 1-5) is not attached to the equipment. It is a loose part and stowed in the packing chest when not in use. The coupling plug is used as a plug for the open end of the fuel delivery pipe when the hose assembly is disconnected from the quick-disconnect coupling half.

Section II. OPERATION UNDER USUAL CONDITIONS

2-7. General

The trained gunner (FM 20-33) receives the flamethrower with the fuel tanks filled and the pressure tank pressurized. He also receives a can with two ignition cylinders. The gun and the hose are connected. The hose is usually connected to the fuel tank.

2-8. Preparing Flamethrower for Use

The operator must perform the following operations to prepare the flamethrower for use:

a. Close the pressure tank valve by turning the valve handle (6, fig. 1-5) clockwise.

- b. Perform this step if the hose assembly is not connected to the fuel tank delivery pipe coupling.
 - (1) Stand the tanks upright.
- (2) Open both tank bleeder valves (3) and vent the pressurized air. Close both bleeder valves after the hissing noise stops.
- (3) Lay the tanks in a horizontal position with the fuel delivery pipe (9) on the top side. Allow 2 minutes for the fuel in the tanks to settle to the bottom.

WARNING

To prevent injury to personnel, stand to

c. Firing Position. The M2A1-7 flamethrower can be fired by the gunner (FM 20-33) from a standing, kneeling, or prone position.

NOTE

To effectively disperse the fuel from the fuel tanks, the tops of the fuel tanks should be elevated higher than the bottom or outlet end of the fuel tank.

- d. Holding the Gun. Grasp the valve grip with the right hand, with the palm of the hand on the valve safety lever (3, fig. 1-2) and the fingers curled around the valve lever assembly (4). Grasp the ignition grip with the left hand, with the palm of the hand on the ignition safety lever assembly (7) and the fingers curled around the ignition lever assembly (6).
 - e. Aiming.

WARNING

To prevent burn casualties keep the gun pointed away from friendly personnel at all times and never face the front of the gun.

There are no sights on the gun. Aim the gun in the direction of the target where the flame is required. Adjust for drift of the flaming rod if operating in strong winds.

f. Firing.

WARNING

Release the waist straps before firing to facilitate emergency disposal of the flamethrower during firing.

The flamethrower can be fired in one continuous burst that will last for approximately 6 seconds. It can also be fired in short bursts. The flamethrower gives best results when the temperature is above 30° F. To fire the flamethrower, proceed as follows:

- (1) Hold the gun by the barrel in the left hand.
- (2) Using the right hand, turn the pressure tank valve handle counterclockwise. The flame-thrower is now ready for firing.
- (3) With the palm of the left hand rapidly squeeze the ignition safety lever assembly; at the same time, with fingers, rapidly squeeze the igni-

tion lever assembly and hold firmly. This should ignite one match in the ignition cylinder. If the match does not ignite, repeat the operation. Once lit, the match ignites the incendiary pellet that will burn for 8 to 12 seconds.

- (4) With the palm of the right hand, rapidly squeeze the valve assembly; at the same time, with the fingers, rapidly squeeze the valve lever assembly and hold firmly. This will propel the fuel from the gun, ignited by the incendiary pellet. The right hand controls the fuel flow either as one continuous burst or several short bursts. By pressing and releasing the valve lever the gun can be fired at any time while an incendiary pellet is ignited.
- (5) Release the valve lever to stop the fuel flow.
- g. During Firing. It may be necessary during a flamethrower mission to replace the expended ignition cylinder. Replace and install the ignition cylinder as described in paragraph 2–10.

2-12. After-Firing Procedure

Perform the following steps after firing operations have been completed:

- a. Point the gun at the ground. Press the gun valve safety lever (3, fig. 1-2) and lever assembly (4) to dispose of the fuel and vent the pressurized air.
- b. Open the bleeder valves (3, fig. 1-5) on the filler caps.

WARNING

To prevent burns, protect the hands before handling the nozzle shield after firing.

c. Point the gun at the ground. Depress the shield latch (fig. 1-3) and allow the nozzle and ignition cylinder to drop from the gun.

NOTE

The officer in charge will decide whether to save the partly used ignition cylinder for future use or dispose of them.

- d. Screw the nozzle shield back on the gun.
- e. Close the valve on the pressure tank by turning the valve handle (6, fig. 1-5) clockwise.

Section III. OPERATION UNDER UNUSUAL CONDITIONS

2-13. Climatic Extremes

- a. Heat. Heat has no appreciable effect on the flamethrower.
- b. Cold. At temperatures below 30° F, it may be necessary to ignite two or more matches in the ignition cylinder to ignite the fuel. Ignite additional matches by resqueezing the ignition safety lever assembly and then the ignition lever.

4-14. High or Variable Winds WARNING

During firing the gunner must be alert against head winds that may blow the flame back on him. High winds, cross winds, or variable winds will break up the flame rod and shorten the range. The gunner must compensate for the high and variable winds to maintain accuracy.

2-15. Snow or Rain

CAUTION

Care must be taken to keep snow, mud, or ice out of the nozzle and working parts of the gun to prevent a malfunction.

The flamethrower can be fired in snow or rain or after brief immersion in water.

CHAPTER 3

OPERATOR'S MAINTENANCE INSTRUCTIONS

Section I. INSPECTION

3-1. General

The gunner is responsible for specific regular inspection services to insure that the equipment operates properly and to lessen the probability of mechanical failure.

3-2. Before-Operation Inspection

The gunner must perform the following inspec-

tions before using the flamethrower. Report all defects to organizational maintenance personnel.

- a. Turn the valve handle on the pressure tank clockwise to stop the flow of pressurized air.
- b. Operate the ignition safety lever assembly (7, fig. 1-2) and ignition lever assembly (6).

Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

3-3. Purpose

The preventive maintenance checks and services (table 3-1) provide the operator with a list of maintenance services which must be performed at the intervals prescribed. Use the list to make sure that all authorized maintenance is accomplished. If corrective action is not authorized at operator's level, report equipment defects to organizational maintenance personnel.

3-4. Explanation of Columns

A number under before- or after-operation in the Interval and Sequence No. column indicates that the services opposite the number must be performed in numerical sequence at the prescribed time. The time required to perform all the checks and services for each interval is shown in the work time column. These times are given in hours and tenths.

Table 3-1. Operator/Crew Preventive Maintenance Checks and Services

B-Before Operation Time Required: .02			D-During Operation A-After Operation Time Require	
Interval and Sequence No.			ITEM TO BE INSPECTED/PROCEDURE	
В	D	A		
1		Air pressure tank and fuel tanks Turn the valve handle on the pressure tank clockwise as far as it will go to make sure that it is		0.1

Time Required: .02 Time Required	
Interval and Sequence No. ITEM TO BE INSPECTED/PROCEDURE	Wor Tim (MH
B D A	
closed (fig. 1-6). Position the fuel tanks on the gunner's back. Adjust straps. The straps should be adjusted until the bottom of the tanks rests against the small of the gunner's back for comfortable fit. The tanks should not shift around when the gunner changes position. Gun Squeeze the Ignition Safety Lever (fig. 1-2) and the Ignition Lever to see that they operate freely. When the ignition safety lever is depressed the ignition lever is free to depress. Squeeze the valve safety lever and the valve lever to see that they operate freely. When the valve safety lever is depressed, the valve lever is free to depress. Install an ignition cylinder by depressing the nozzle shield latch (fig. 1-3) and unscrew the nozzle shield. Place the ignition cylinder (fig. 2-1) on top of the spring case (7, fig. 2-1). Place the nozzle shield (fig. 1-3) over the ignition cylinder and engage the outer case pin in the nozzle shield in place. Back off the nozzle shield until the	0.1

Table 3-1. Operator/Crew Preventive Maintenance Checks and Services-Continued

Interval and Sequence No.			ITEM TO BE INSPECTED/PROCEDURE		Interval and Sequence No.			ITEM TO BE INSPECTED/PROCEDURE	Wor Tim (MH
В	D	A			В	D	A		
		4	shield latch is engaged by the notch in the nozzle shield. Squeeze the valve safety lever and valve lever until all pressure is released from the fuel tanks. Point the gun at the ground. Depress the nozzle latch and remove the nozzle	0.1	3		5	shield and the ignition cylinder. Screw the nozzle shield back on the gun. Hose Check the hose for damage and missing parts. Check the gasket (3, fig. 1-4) in the coupling body.	0.1

CHAPTER 4 ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. SERVICE UPON RECEIPT OF MATERIAL

4-1. General

The M2A1-7 flamethrower is issued in a pack-

ing chest (fig. 4-1). The tanks are packed in the bottom of the chest. The assembled gun and hose

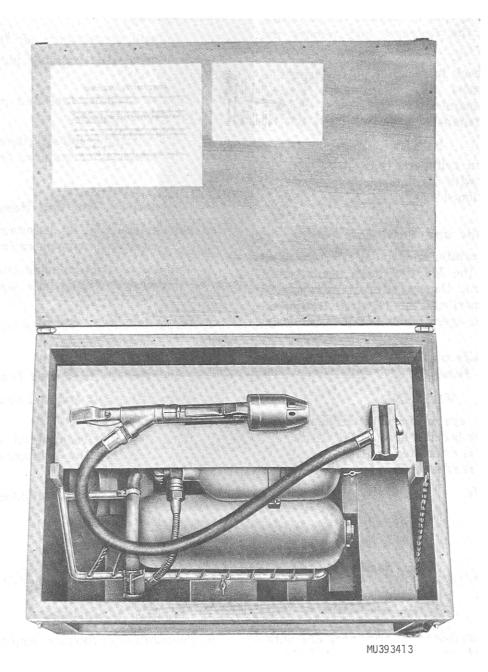


Figure 4-1. M2A1-7 portable flamethrower in packing chest.

are fastened to a removable mounting board. Repacking instructions and a copy of the lubrication order (LO 3-1040-204-30) are attached to the inside of the cover.

4-4. Unpacking and Inspection

Unpack the flamethrower as follows:

- a. Cut the steel strapping and remove the screws securing the cover to the packing chest.
- b. Unlock the hasps at the front of the packing chest:
- c. Remove the assembled gun and hose assembly from the mounting board. Remove the mounting board. Release the fasteners and remove the tank assemblies.
- d. Visually check to see that all equipment is serviceable. Report any maintenance beyond organizational maintenance to direct support maintenance personnel.

NOTE

The ignition cylinders (para 1-8) are not packed with the flamethrower. They are requisitioned separately.

4-3. Hydrostatic and Volumetric Testing

Check the hydrostatic and volumetric test dates (para 6-1) on the M8 fuel hose, agent tanks, ans pressure tank. General support maintenance personnel will perform the required testing on the M8 fuel hose, agent tanks, and pressure tank.

4-4. Storage Life and Service Life— M8 Fuel Hose

WARNING

To prevent eye injuries or accidental fires, do not use the hose if the 2-year service life is exhausted or if the 5-year storage life is exhausted.

a. Storage Life.

Check the dates on the fuel hose. See that the hose is serviceable (para 6-2a).

b. Service Life.

Check the dates on the fuel hose. See that the hose is serviceable (para 6-2b).

4-5. Removal of Protective Material

- a. Drain preservative oil from the fuel tanks as follows:
- (1) Open the bleeder valve (3, fig. 1-5) on the fuel tank.
- (2) Remove the coupling plug (8) from the fuel tank outlet.
 - (3) Drain preservative oil from the tank.
- (4) Replace the coupling plug on the fuel tank outlet.
- b. Remove masking tape and protective material from the equipment.
- c. Use drycleaning solvent (item 5, table 4-3) to remove preservative material from the equipment.

4-6. Connecting Gun and Hose Assembly

If the hose assembly is disconnected from the gun, perform the following operations:

- a. Apply antiseize compound (item 1, table 4-3) on the threads of the hose assembly (2, fig. 1-2).
- b. Wrench tighten the hose coupling to the Y-inlet body on the gun.

4-7. Air Pressure Tank and Fuel Tanks

The air pressure tank and fuel tanks are shipped completely assembled.

- a. Remove protective material and drain preservative oil when the equipment is received (para 4-5).
 - b. Adjust the pressure regulator (para 5-14).

Section II. PAINTING AND LUBRICATING

4-8. General

Organizational maintenance personnel are authorized to retouch paint on the M2A1-7 flame-thrower.

4-9. Painting Instructions

a. Preparation of Surface. Apply masking tape (item 2, Table 4-3) over the pipe threads, openings, and all surfaces that are not to be painted.

- b. Primer. Prime all worn and scratched surfaces with one coat of zinc chromate primer (item 3, Table 4-3).
- c. Exterior Surfaces. Touch up the exterior surfaces of the flamethrower with two coats of olive drab (item 4, Table 4-3).

Section III. **SERVICING**

4-11. Filling Fuel Tanks

Organizational maintenance personnel are responsible for filling the fuel tanks.

- a. Obtain prepared flamethrower fuel for the flamethrower (TM 3-366) fuel tanks.
- b. Close the pressure tank valve by turning the valve handle (6, fig. 1-5) clockwise.
 - c. Open the bleeder valve (3).
 - d. Remove filling plugs (4).

NOTE

Fuel level in each fuel tank should be approximately 2 inches from the top of the fuel tank.

- e. Fill the fuel tanks with fuel (TM 3-366) to specific levels.
 - f. Install filling plugs.

4-12. Pressure Testing and Charging the Pressure Tank

- a. Pressure Testing. Air pressure in the pressure tank must be checked as follows: Prior to use with the flamethrower and prior to recharging pressure tank, air pressure must be between 1,700 psi and 2,100 psi for maximum efficiency. Perform pressure test as specified in TM 3-1040-221-12 by using the M27 service kit.
- b. Charging Pressure Tanks. Air pressure must be checked (a above) prior to charging pressure tanks. TM 3-1040-221-12 contains charging operations by using the M27 service kit. Air may be provided by either commercial cylinders or approved air compressors.

4-13. Venting and Replacing Pressure Tank WARNING

To prevent eye injuries, vent the pressurized air from the air pressure system before attempting any maintenance or modification to the pressure system.

4-10. Lubricating Information

The lubrication order (LO 3-1040-204-30) is packed with the flamethrower in the packing chest. Lubrication of the flamethrower is performed by direct support maintenance personnel.

a. Venting Operation.

- (1) Close (clockwise) pressure tank valve with valve handle (6, fig. 1-5).
- (2) Open both bleeder valves (3) to vent air in fuel tanks.
 - b. Removal.
- (1) Place the tanks in a horizontal position with pressure tank on top side.
- (2) Remove the retain wingnut (7, fig. 4-2), eyelet (4), and clamp (5).
- (3) Open (counterclockwise) pressure tank valve with handle. (6). After venting pressurized air, close pressure tank valve.
- (4) Disconnect hinged tank clamp (12, fig. 1-5) by completely loosening wingut.

CAUTION

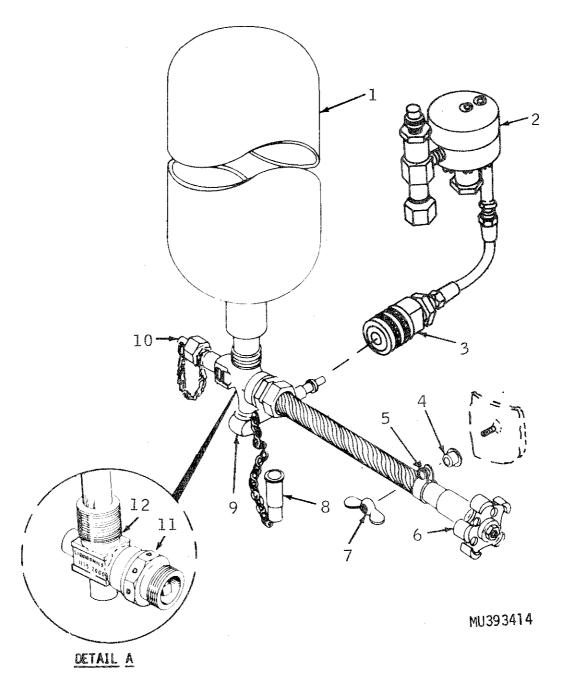
Exercise care when disconnecting the pressure tank coupling plug from the regulator quick-disconnect pressure coupling half to prevent damage to the tube.

- (5) Disconnect the quick-disconnect coupling half (3, fig. 4-2) from the coupling plug (9).
- (6) Remove and retain the pressure tank and valve assembly.
 - c. Installation.
- (1) Place the fuel tanks in a horizontal position with the quick-disconnect coupling half facing up.

NOTE

Check to see that the preformed packing in the quick-disconnect coupling half is installed and serviceable.

- (2) Aline and connect the pressure tank coupling plug (9) to the pressure regulator quick-disconnect coupling half (3).
- (3) Test to see that the coupling plug is engaged and locked in the quick-disconnect coup-



- 1 Pressure tank 2 Pressure regulator
- 3 Quick-disconnect coupling half
- 4 Eyelet

- 5 Clamp 6 Handle
- 7 Wingnut 8 Cap

- 9 Plug 10 Check val
- 10 Check valve 11 Spool
- 11 Spool 12 Valve body

Figure 4-2. Pressure tank and valve assembly.

ling half. The knurled ring on the quick-disconnect coupling half should not slide freely when properly connected.

- (4) Close the hinged tank clamp (12, fig. 1-5) around the pressure tank and fasten the attached wingnut.
- (5) Fasten the valve shaft to the boss on the agent tank with the clamp (5, fig. 4-2), eyelet (4), and wingnut (7).

4-14. Installing Ignition Cylinders

Install ignition cylinder (para 2-20).

Section IV. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

4-15. General

The purpose of preventive maintenance checks and services is to detect the first signs of failure in the M2A1-7 flamethrower and to insure that appropriate corrective action is taken before time-consuming repairs and replacement are required.

4-16. Before Issuing Flamethrower

Before issuing the flamethrower to the operator for use, perform the following visual inspections:

a. Gun.

- (1) Remove nozzle shield (fig. 1-3) from the gun.
- (2) Check spring case (7, fig. 2-2) for any damage.
- (3) Check threads on nozzle shield and gun for damage.
 - (4) Install nozzle shield on gun.
- (5) Squeeze the ignition safety lever and the ignition lever to see that they operate freely.
- (6) Squeeze the valve safety lever and the valve lever to see that they operate freely.
 - (7) Check entire gun for any missing screws.
 - b. Hose Assembly.
- (1) Check the hose (4, fig. 1-4) for cuts, frays, or any other damage.
- (2) Check the coupling (5) for possible damage.
- (3) Check the hydrostatic date on the hose assembly (para 6-1a).
- (4) Check to see that the 5-year storage life (para 6-2a) and the 2-year service life (para 6-2b) is not exceeded.
 - c. Air Pressure Tank and Fuel Tanks.
- (1) Place the fuel tanks in an upright position and close the pressure tank valve (11, fig. 1-5) by turning the valve handle (6) clockwise as far as it will go.
- (2) Open the bleeder valve (3) on each filling plug to release any residual pressure. When hissing stops the pressure is released.
- (3) Remove the filling plugs (4) and make sure the preformed packing is in place and serviceable.
 - (4) Install filling plugs.

- (5) Check hydrostatic and volumetric test dates (para 6-1b) on the aluminum band attached to the diffusion pipe (fig. 1-7).
- (6) Turn the valve handle (6, fig. 1-5) clockwise and counterclockwise to make sure the valve operates freely.
- (7) Check hydrostatic and volumetric test dates (para 6-1c) on the aluminum band on the neck of the pressure tank.
- (8) Check to see that the dust cap and check valve cap are present and serviceable.
- (9) Check hinged clamp (fig. 1-7) and wingnut for damage.
- (10) Lay the flamethrower on a flat surface with the backpack facing down. Visually check to see that the disk in the safety head (fig. 1-7) is not ruptured.
- (11) Support the regulator tube assembly (fig. 1-7) with the left hand. With the right hand check the tightness of the connection of the regulator tube socket and the plug on the high pressure valve by a firm pull on the plug.
- (12) Check the frame for breaks, cracks, and missing nuts and bolts.
- (13) Turn the flamethrower on its side so the quick-disconnect coupling lock (7, fig. 1-5) is turned up.
- (14) Lift the coupling lock (1, fig. 1-4) and open the locking cams (6).
- (15) Remove the coupling plug (8, fig. 1-5) and check to see that the rubber gasket (3, fig. 1-4) is present and serviceable.
- (16) Install coupling plug, close locking cams, and lock coupling lock.
- (17) Check carrier pack, cords, and straps for cuts, tears, or deterioration.
- (18) Check all buckles and snaps to see that they are serviceable.

4-17. After-Operation Services

Upon receipt of a flamethrower that has been used to perform a mission, the following operations must be performed:

- a. Check to see that the after-operation services have been performed by the operator (para 2-12).
 - b. Remove the filling plugs (4, fig. 1-5).
- c. Disconnect the fuel hose from the tanks and drain any remaining residual fuel from the tanks and hose.

- d. Install the fuel hose.
- e. Fill the fuel tanks with diesel oil to approximately 2 inches from the top of the tank.
 - f. Install the filling plugs and hand tighten.
 - g. Shake the tanks to agitate the diesel oil.

NOTE

Tanks with gun and hose attached should stand for several hours, if possible.

- h. Remove the nozzle shield (fig. 1-3).
- i. Remove one of the filling plugs (4, fig. 1-5).

NOTE

Retain the diesel oil if more than one flamethrower is to be cleaned. If the diesel oil is not retained, dispose of as waste fuel.

- j. Squeeze the valve safety lever (3, fig. 1-2) and valve lever (4) and drain the tanks through the hose and gun.
- k. Disconnect the fuel hose from the tanks and completely drain the gun, hose, and fuel tanks.
 - l. Install the nozzle shield on the gun.
 - m. Install filling plug on tank.
- n. Install coupling plug (8, fig. 1-5) in the quick-disconnect coupling.
- o. Wipe the gun and hose with a clean cloth to remove any oil that may have been spilled during cleaning operation.
- p. Clean the carrier pack with a stiff brush. Do not use soap and water which will cause fading and shrinking.

4–18. Repacking Flamethrower

- a. Check to see that the after-operation services (para 4-17) have been performed.
- b. Repack and secure the flamethrower in the packing chest (fig. 4-1).

- c. Place the manual and a copy of the lubrication order in the packing chest.
- d. Close lid and latches. Install screws through lid, and band with two steel straps if necessary.

4–19. Preventive Maintenance Checks and Services

- a. Purpose. The preventive maintenance checks and services (Table 4-1) provide organizational maintenance personnel with a list of maintenance services which must be performed at the intervals prescribed. Use the list to make sure that all required maintenance is accomplished. If corrective action is not authorized at organizational level, report equipment failures to direct support maintenance personnel.
- b. Explanation of Columns. A number under before issuing or after operation in the Interval and Sequence No. column indicates that the service opposite the number must be performed in the numerical sequence and at the prescribed interval. The time required to perform all the checks and services for each interval is shown in the work time column. These times are stated in hours and tenths.

Table 4-1. Organizational Preventive Maintenance Checks and Services

	B—Before Issuing Flamethrower A—After Ope Time Required: 0.7 Time Require			
Seque	ral and nce No.	ITEMS TO BE INSPECTED/PROCEDURE	Worl Time	
В	A.		(MH)	
1		GUN	0.1	
2		Inspect the gun for damage and missing parts. Check the operation of the gun (para 4-16a). HOSE	0.1	
		Check the hose for damage. Check the quick-disconnect coupling for missing parts (para 4-16b).		
3		AIR PRESSURE TANK AND FUEL TANKS	0.5	
		Check the tanks for dents and cracks. Check for missing parts (para 4-16c).		
	4	GUN, HOSE, AND TANK ASSEMBLIES	1.0	
		Check to see that after operation checks and services of Table 3-1 have been performed by the operator. Perform after operation services (para 4-17).		

Section V. TROUBLESHOOTING

4-20. General

Table 4-2 lists troubleshooting procedures for organizational maintenance personnel.

4-21. Troubleshooting

Each malfunction is followed by probable causes and corrective actions that can be taken to correct the malfunction. Report all malfunctions beyond the scope of organizational maintenance

to direct support maintenance personnel.

Table 4-2. Troubleshooting

Item No.	Malfunction	Probable Cause	Corrective Action
1	Fuel leaks at hose quick-discon- nect coupling and fuel tank outlet.	 a. Quick-disconnect coupling not installed correctly on fuel outlet coupling. b. Preformed packing in quick-disconnect coupling missing or damaged. c. Defective quick-disconnect coupling. 	Disconnect quick-disconnect coupling and connect correctly. Replace preformed packing (para 4-23). Refer to direct support maintenance.
2	Fuel leaks at hose coupling and Y-inlet body.	Hose coupling loose.	Refer to direct support maintenance.
3	Fuel leaks at filling plug.	 a. Filling plug loose. b. Preformed packing missing or damaged. 	Tighten filling plug (4-22). Replace preformed packing.
4	No discharge of fuel when valve safety lever and valve lever are depressed.	a. High pressure valve closed.b. High pressure tank empty.	Fully open high pressure valve (turn knob counterclockwise). Recharge high pressure tank (para 4-12).
5	Firing range less than 40 feet.	a. High pressure valve not fully open.b. Insufficient pressure in high-pressure tank.	Fully open high pressure valve (turn knob counter clockwise). Recharge high pressure tank (para 4-12).
6	Fuel does not ignite when dis- charged.	a. Ignition cylinder match did not light.b. Ignition cylinder defective.	Rotate cylinders to next match. Replace ignition cylinder (para 2-10).

Section VI. TANKS

4—22. Filling Plug Assembly and Preformed Packing

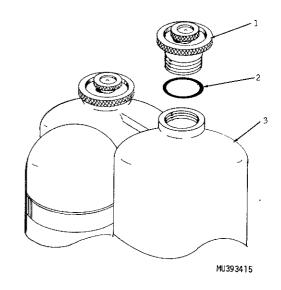
Organizational maintenance personnel are authorized to replace the filling plug assembly (1, fig. 4-3) and preformed packing (2). The following procedure is used for either filling plug assembly:

WARNING

To prevent eye injuries, vent the pressurized air from the air pressure system before attempting any maintenance or modification to the pressure system.

a. Removal.

- (1) Close the pressure tank valve (11, fig. 1-5) by turning the valve handle (6) clockwise.
- (2) Open the bleeder valve (3) to vent the pressurized air in the system.
- (3) Remove the filling plug assembly (1, fig. 4-3).
 - (4) Remove preformed packing (2).



- Filling plug Preformed packing
- 3 Fuel tank 4 Bleeder valve

Figure 4-3. Filling plug and preformed packing requirement.

- b. Installation.
 - (1) Install preformed packing (2).
 - (2) Install filling plug assembly (1).
 - (3) Close the bleeder valves.

4-23. Coupling Plug and Gasket

Organizational maintenance personnel are authorized to replace the coupling plug (8, fig. 1-5) and rubber gasket (3, fig. 1-4).

a. Removal.

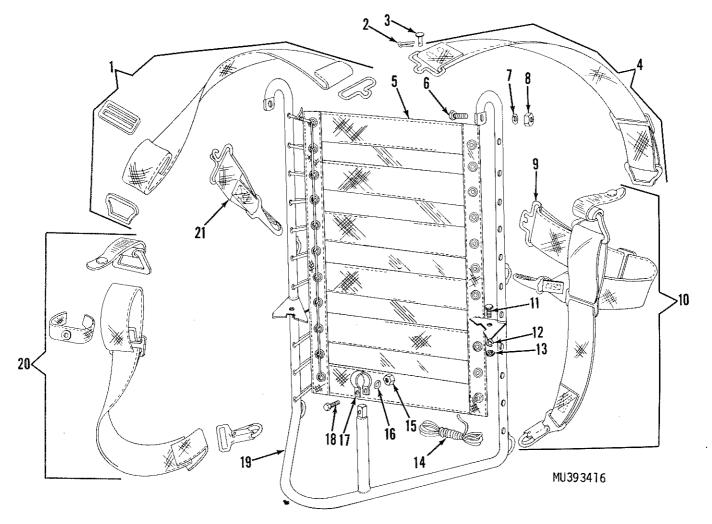
- (1) Close the pressure tank valve (11, fig. 1-5) by turning the valve handle (6) clockwise.
- (2) Open the bleeder valve (3) to vent the pressurized air in the system.

- (3) Open the coupling lock (1, fig. 1-4), coupling cams (6) and remove coupling plug and rubber gasket.
 - b. Installation.
 - (1) Install rubber gasket and coupling plug.
 - (2) Close coupling cams and coupling lock.
 - (3) Close the bleeder valves.

4-24. Pack Carrier

Organizational maintenance personnel are authorized to replace the pack carrier (5, fig. 4-4), straps, and cotton cord.

a. Pack Carrier. Remove and replace the pack carrier (5, fig. 4-4). Remove and replace cord if required.



- Upper strap
- Cotter pin
- Headed straight pin

- Washer

- Upper strap
- Pack carrier
- Capscrew

- Nut
- Long strap
- 10 Lower strap
- 11 Capscrew
- 12Lockwasher
- 13 Nut Cotton cord

- Nut
- Lockwasher 16
- Loop clamp
- Capscrew
- Carrier frame Lower strap

Figure 4-4. Carrier section, exploded view.

b. Strap Assemblies. Remove and replace the strap assemblies (fig. 4-4). The strap assemblies contain buckles and fasteners for attachment to the frame and for adjustment.

4-25. Pressure Tank and Valve Assembly

Organizational maintenance personnel are authorized to replace the pressure tank and valve assembly and attaching wingnut.

a. Removal.

- (1) Vent the air from the air pressure system (para 4-13a).
- (2) Remove the pressure tank and valve assembly (para 4-13b).
- b. Installation. Install the pressure tank and valve assembly (para 4-13c).

4-26. Expendable Items

- a. Table 4-3 lists the expendable items required to properly maintain the portable flamethrower.
- b. A complete listing of expendable items is contained in Supply Bulletin 700–50.

Table 4-3. Expendable Items

Item No.	Nomenclature	FSN
1	Antiseize Compound	8030-209-8005
2	Masking Tape	7510-290-2024
3	Zinc Chromate Primer, Color T	8010-290-4247
4	Olive Drab Paint	8010-290-6648
5	Drycleaning solvent	6850-264-9039

CHAPTER 5

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

Section I. GUN

5-1. General

The gun consists of the ignition section and the valve section. Two screws hold the sections together.

5-2. Gun

Direct support maintenance personnel are authorized to replace the gun.

- a. Removal.
- (1) Close pressure tank valve (11, fig. 1-5) by turning valve handle (6) clockwise.
 - (2) Open bleeder valves (3).
- (3) Open the coupling lock (1, fig. 1-4) and coupling cams (6) and remove the hose assembly.
- (4) Disconnect the hose assembly (2, fig. 1-2) from the gun.
 - b. Installation.
- (1) Apply antiseize compound (1, table 1–4) on the hose assembly coupling threads.
- (2) Connnnect the hose assembly coupling to the gun.
- (3) Insert the quick-disconnect coupling half (5, fig. 1-4) in the coupling body (2).
- (4) Close the coupling cams (6) and coupling lock (1).

5-3. Ignition Grip Assembly

Direct support maintenance personnel are authorized to replace the parts that make up the ignition section.

- a. Removal and Disassembly. Remove and disassemble the ignition section as far as necessary to clean, lubricate, and replace parts.
- (1) Close the pressure tank valve (11, fig. 1-5) and open bleeder valves (3).
 - (2) Loosen the four screws (17, fig. 5-1).

- (3) Slide the valve section out of the ignition section.
- (4) Remove the four screws (17) and the grip cover (16).
- (5) Disengage and remove the safety lever (22) from the link (13).
- (6) Disassemble the safety lever spring (21) from the safety lever (22) by removing screw (19) and lockwasher (20).
- (7) With the thumb, press down on the link (13). Remove the lever assembly (15) and headless shoulder pin (18).
- (8) Screw one of the removed screws (17) into the head of the pin (14). Remove the pin (14).
- (9) Remove the link (13), pin assembly (28), washer (12), outer spring (10), and inner spring (11).
- (10) To remove the head body (8), remove the snapring (9), screws (6), and lockwashers (7).

NOTE

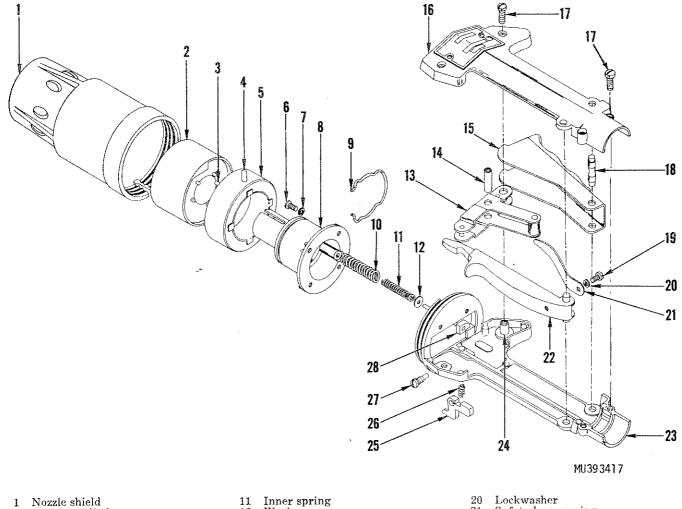
The following step is performed if the nozzle shield latch (25) is unserviceable.

- (11) Remove screw (27), nozzle shield latch (25), and spring (26).
- b. Lubricating. During assembly, replace, clean, and lubricate the parts as required (LO 3-1040-204-30).
 - c. Assembly.

NOTE

The following step is performed if the nozzle shield latch (25) was removed in step (a 11) above.

(1) Locate the spring (26) and shield latch (25) in the grip assembly (23) slot. Install and



- Ignition cylinder 3 Inner case pin Outer case pin Spring case assembly Screw
- Lockwasher Head body Snapring
- Outer spring

- 12 Washer
- 13 Link 14 Pin
- Lever assembly 15
- Grip cover 16 17 Screws
- 18 Shoulder pin

- Safety lever spring
- Safety lever
- $\frac{-2}{23}$ Grip assembly
- Pivot 25 Shield latch
- Spring
- Screw Pin assembly

Figure 5-1. Ignition section of gun exploded view.

tighten screw (27). Check for proper operation of shield latch (25).

- (2) Locate and position the shoulder on the head body (8) against the face of the grip assembly (23). Install lockwashers (7) and screws (6). Tighten screws.
 - (3) Install link (13) and pivot (24).
- (4) Slide the washer (12), inner spring (11), and outer spring (10) on the pin assembly (28). Insert the needle end of the pin assembly (28) into the tube in the head body (8). Pass the U-shaped end of the pin assembly (28) through the link (13). See fig. 5-2.

- (5) For ease of installation, temporarily install screw (17, fig. 5–1) into pin (14).
- (6) Compress the springs (10 and 11) with the pin assembly (28) until the U-section is in line with center hole in the link assembly (fig. 5-3).
- (7) Holding the screw, install the pin through the link. Remove the screw after the pin has been installed.
- 8) Install the lever assembly (15, fig. 5–1) and shoulder pin (18) as follows. Slide the lever assembly (fig. 5-4) on the arm of the link and install the shoulder pin.

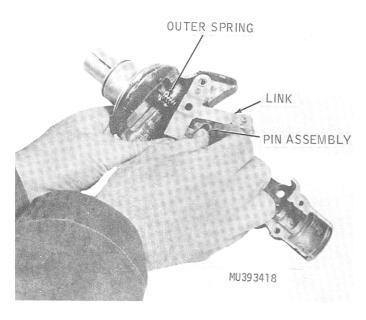


Figure 5-2. Installing ignition pin assembly.

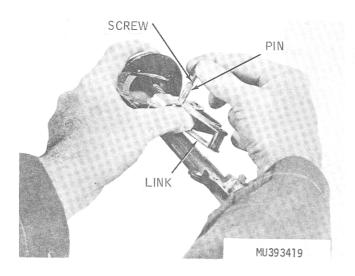


Figure 5-3. Inserting pin in ignition link.

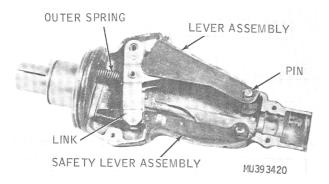


Figure 5-4. Installing ignition lever assembly and safety lever assembly.

- (9) Connnect the safety lever spring (21, fig. 5-1) to the safety lever (22) with lockwasher (20) and screw (19).
- (10) Install the safety lever assembly (fig. 5-4).
 - (11) Lubricate parts as required.
- (12) Install the grip cover (16, fig. 5–1) with four screws (17). Leave the two back screws loose.
- (13) Face the inner-case pin (3) away from the head body (8). Install the spring case assembly (5) on the head body (8).
- (14) Install the snapring (9) to hold the head body (8) in place.
 - (15) Install nozzle shield (1).
- (16) Slide the valve section into the ignition section and tighten the screws (17).

5-4. Valve Grip Assembly

Direct support maintenance personnel are authorized to replace the parts that make up the valve grip assembly.

- a. Removal and Disassembly. Remove and disassemble the valve section as far as necessary to clean, lubricate, and replace parts.
- (1) Close the pressure tank valve (11, fig. 1-5) and open bleeder valves (3).
- (2) Loosen the two screws (5, fig. 1-2) and remove the valve section from the ignition section.
- (3) Remove screws (19 and 20, fig. 5-5) from the grip cover (18). Remove cover (18).
- (4) Hold the spring (16) and remove safety lever (15) and spring (16). If necessary, loosen the setscrew (8) and remove the bolt (9).
- (5) Remove link assembly (7) and valve lever assembly (6).
- (6) Insert a nail or rod into the holes in the pins (14 and 17). Remove bolt pins.
 - (7) Remove the post (5).
 - (8) Remove pin (10).
- (9) Remove screw (3). Turn valve grip (13) counterclockwise and remove it. Remove valve retractor (4).

b. Assembly.

(1) Make sure the atomizer hole (1) is open and clean. If necessary, clean the atomizer hole with a piece of wire.

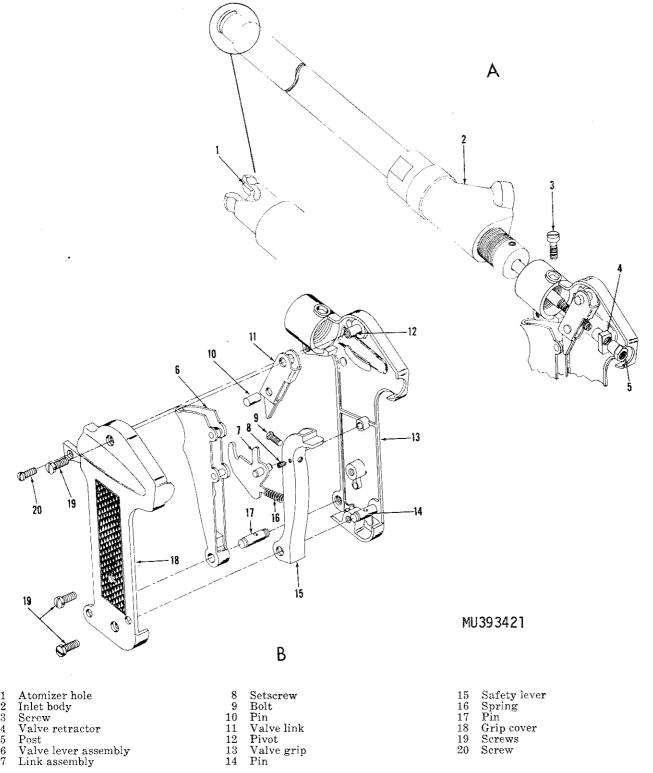


Figure 5-5. Valve section, exploded view.

- (2) Screw the valve retractor (4) on the threaded shaft. Locate the valve retractor approximately in the center of the threaded portion of the shaft.
 - (3) Install the valve grip (13). Locate the

hole in the valve grip (13) with the hole in the inlet body. Install and tighten the screw (3).

- (4) Install pins (14 and 17).
- (5) Install valve link (11) and pivot toward the front of the gun. Insert pin (10). If

valve retractor (4) prevents the pin from being inserted, screw the valve retractor (4) toward the rear of the gun by turning the needle valve clockwise with a screwdriver.

- (6) Install the post (5) with hexhead facing the rear of the gun. Do not tighten the post.
- (7) If removed, loosely install setscrew (8) and bolt (9).
 - (8) Install valve lever assembly (6).
- (9) Install link assembly (7). Install one end of the spring (16) on the link asssembly (7).

- (10) Install safety lever (15) and at the same time locate the open end of the spring into the recessed hole in the safety lever (15).
- (11) If necessary, adjust the space between the bolt (9) and the safety link (7) to .035 $(\pm.010)$ inch. After adjustment has been made, lock bolt (9) with setscrew (8).
- (12) Install the valve grip cover (18) and screws (19) and (20). Tighten screws.
- (13) Slide the valve section into the ignition section and tighten both screws (5, fig. 1-2).

Section II. HOSE

5-5. Fuel Hose

Direct support maintenance personnel are authorized to replace the M8 fuel hose.

- a. Check the Hydrostatic and Volumetric Test Dates. Refer to paragraph 6-1.
- b. Check the Storage Life and Service Life Test Dates. Refer to paragraph 6-2.
 - c. Removal.
- (1) Close the pressure tank valve (11, fig. 1-5) and open the bleeder valves (3).
- (2) Open the coupling lock (1, fig. 1-4) and coupling cams (6).
- (3) Remove the hose assembly from the fuel delivery coupling.
- (4) Remove the quick-disconnect coupling half (5) from the hose.
- (5) Disconnect the hose assembly from the gun.
 - d. Installation.
- (1) Apply antiseize compound on the hose coupling threads.
- (2) Connect the hose assembly coupling to the gun inlet body.
- (3) Install the quick-disconnect coupling half (5) on the hose.

- (4) Insert the quick-disconnect coupling half in the coupling body (2).
- (5) Close the coupling cams (6) and coupling lock (1).

5-6. Quick-Disconnect Coupling Half

Direct-support maintenance personnel are authorized to replace the quick-disconnect coupling half.

- a. Removal.
- (1) Close the pressure tank valve (11, fig. 1-5) and open the bleeder valves (3).
- (2) Open the coupling lock (1, fig. 1-4) and coupling cams (6).
- (3) Remove the hose assembly from the fuel delivery coupling.
- (4) Remove the quick-disconnect coupling half (5) from the hose.
 - b. Installation.
- (1) Apply antiseize compound on the hose coupling threads.
- (2) Install the quick-disconnect coupling half (5) on the hose.
- (3) Insert the quick-disconnect coupling half in the coupling body (2).
- (4) Close the coupling cams (6) and coupling lock (1).

Section III. TANKS

5-7. Fuel Tanks

Direct support maintenance personnel are authorized to replace the fuel tanks.

a. Removal.

(1) Close the pressure tank valve (11, fig. 1-5) and open the bleeder valves (3).

- (2) Open the coupling lock (1, fig. 1-4), coupling cams (6), and remove the hose assembly.
- (3) Remove the pressure tank and valve assembly (para 4-13a and b).
 - (4) Remove two filling plugs (4, fig. 1-5).
- (5) Remove frame assembly (7, fig. 1-8) and attaching hardware.
- (6) Remove the pressure regulator (fig. 1–7) by loosening the attaching tubing nut.
- (7) Remove hinged clamp by removing rivet at hinge.
 - (8) Remove the quick-disconnect coupling.

b. Installation.

- (1) Apply antiseize compound on the threads of the fuel delivery pipe (9, fig. 1-5) and install the quick-disconnect coupling.
- (2) Install the hinged clamp (fig. 1-7) with rivet at hinge.
- (3) Install pressure regulator (fig. 1–7) with the tubing nut on the diffusion pipe.
- (4) Install frame assembly (7, fig. 1–8) with the attaching hardware.
 - (5) Install the filling plugs (4, fig. 1-5).
- (6) Install the pressure tank and valve assembly (para 4-13c).
- (7) Install the hose assembly and close the coupling cams and lock.

5-8. Hinged Clamp

Direct support maintenance personnel are authorized to replace the hinged clamp which holds the pressure tank.

a. Removal.

- (1) Remove the pressure tank and valve assembly (para 4-13a and b).
- (2) Remove hinged clamp (fig. 1-7) by removing rivet at hinge.

b. Installation.

- (1) Install hinged clamp (fig. 1-7) with rivet at hinge.
- (2) Install pressure tank and valve assembly (para 4-13c).

5-9. Safety Head and Gasket

Direct support maintenance personnel are authorized to replace the safety head and gasket.

a. Removal.

- (1) Remove the pressure tank and valve assembly (para 4-13a and b).
 - (2) Remove the safety head (4, fig. 5-6).
 - (3) Remove the gasket (3).

b. Installation.

- (1) Install the gasket (3) on the safety head (4).
 - (2) Install the safety head (4).
- (3) Install the pressure tank and valve assembly (para 4-13c).

5-10. Pressure Regulator and Safety Valve

Direct support maintenance personnel are authorized to replace the pressure regulator (2, fig. 5-6) and safety valve (1).

a. Removal.

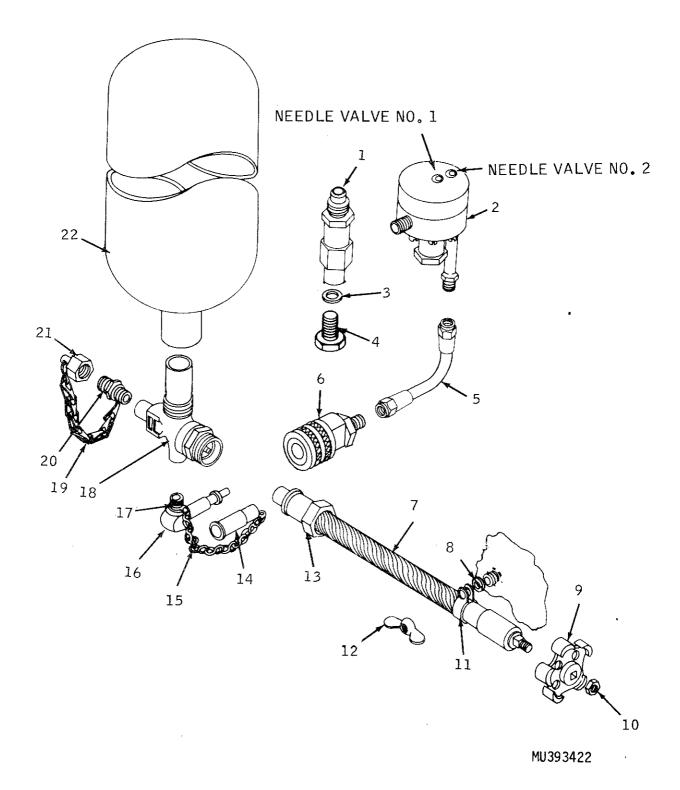
- (1) Remove the pressure tank and valve assembly (para 4-13a and b).
- (2) Loosen the tubing nut and remove the pressure regulator (2), tube assembly (5), and safety valve (1) as a unit.
- (3) Remove the tube assembly (5) from the pressure regulator.
- (4) Remove the safety valve (1) and tubing nipple from the regulator (2).
- (5) Remove the safety head (4) from the safety valve.

b. Installation.

- (1) Install the safety head (4) and gasket (3) on the safety valve (1).
- (2) Install the tubing nipple and safety valve on the regulator.
- (3) Install the tube assembly (5) on the pressure regulator.
- (4) Install the regulator and attaching parts.
- (5) Install the pressure tank and valve assembly (para 4-13c).
- (6) Adjust the pressure regulator, if required (para 5-14).

5-11. Regulator Tube Assembly

Direct support maintenance personnel are authorized to replace the regulator tube assembly or its separate parts.



Safety valve Pressure regulator Eyelet Plug assembly Pressure tank valve Chain Valve handle 17 Nut Clamp Wingnut 18 Gasket 10 Safety head Tube assembly 19 Check valve Check valve cap Pressure tank 20 Quick-disconnect coupling half Valve shaft 13 Coupling nut 21 Plug cap Chain 14 15

Figure 5-6. Pressure section, exploded view.

a. Removal.

- (1) Remove the pressure tank and valve assembly (para 4-13a and b).
- (2) Remove the quick-disconnect coupling half (6, fig. 5-6) and pressure regulator tube (5) by loosening the tubing nut at the pressure regulator.
- (3) Remove the regular tube (5) from the quick disconnect coupling half (6).

b. Installation.

- (1) Connect the regulator tube (5) and the quick-disconnect coupling half (6).
- (2) Connect the regulator tube and quickdisconnect coupling half to the pressure regulator (2) with the tubing nut.
- (3) Install the pressure tank and valve assembly (para 4-13c).

5-12. Valve Shaft

Direct support maintenance personnel are authorized to replace the valve shaft.

a. Removal.

- (1) Remove wingnut (12, fig. 5–6).
- (2) Remove valve shaft (7) by loosening coupling nut (13).
- (3) Remove clamp (11) and handle (9) by removing nut (10).

b. Installation.

- (1) Install handle (9) with nut (10).
- (2) Connect the valve shaft (7) to the pressure tank valve (18) with coupling nut (13).
 - (3) Install clamp (11) and wingnut (12).

5-13. Check Valve Assembly

Direct support maintenance personnel are authorized to replace the check valve assembly (20, fig. 5-6).

a. Removal.

- (1) Open the pressure tank valve by turning valve handle (6, fig. 1-5) counterclockwise.
- (2) Open both bleeder valves (3) to vent all pressurized air.
- (3) Remove the check valve assembly (20, fig. 5-6) from the presssure tank valve (18).
- b. Installation. Install the check valve assembly (20).

5-14. Adjusting Pressure Regulator

Direct support maintenance personnel are au-

thorized to adjust the pressure regulator. Adjustment is performed upon receipt of an M2A1-7 flamethrower or when a pressure regulator has been replaced and if there is excessive breaking up of the fuel rod not caused by strong crosswinds or headminds.

a. Preparation for Adjusting.

- (1) Unlace the canvas pack carrier on one side to expose the pressure regulator.
- (2) Close the pressure tank valve (18, fig. 5-6) by turning the valve handle (9) clockwise.
- (3) Open the bleeder valve (4, fig. 4-3) on the fuel tanks to vent the pressurized air.
- (4) Check the pressure in the pressure tanks (para 4-12). The pressure for testing purposes should be a minimum of 2,000 psi. Pressure tank removal and installation is performed according to paragraph 4-13.

b. Adjusting Procedures.

- (1) Perform the operations in a above.
- (2) Remove one filling plug (1, fig. 4-3). Hand tighten the other filling plug (1) and bleeder valve (4).
- (3) Obtain a pressure gage from the M27 riot control service kit (TM 3-1040-221-12).
- (4) Install and tighten the test pressure gage into the opening in the fuel tank (3).
- (5) Using a socket head setscrew wrench, finger tighten needle valve No. 1 and needle valve No. 2 (fig. 5-6).

NOTE

If there is a needle valve on the side of the pressure regulator, check to see that the needle valve is tight.

NOTE

Needle valve No. 1 and No. 2 should not be removed; they are not interchangeable.

(6) Loosen needle valve No. 1 slowly; four complete turns to allow pressurized air to escape from the dome.

NOTE

Discharge of air is indicated by a hissing sound.

- (7) After hissing noise ceases, close needle valve No. 1.
- (8) Open the pressure tank valve slowly. If the gage indicates a rise in pressure, close the pressure tank valve immediately. A rise in

pressure indicates that the pressure regulator is defective.

- (9) If the pressure regulator is defective, perform the following operations:
 - (a) Close the pressure tank valve.
- (b) Open the bleeder valve to vent air pressure in the fuel tanks.
- (c) Replace the pressure regulator (para 5-10).
- (10) If the pressure gage indicates no rise in pressure, open needle valve No. 2 slowly about one-half turn. Air will escape at the needle valve.
- (11) Open needle valve No. 1 very slowly until pressure gage indicates 325 \pm 25 psi, immediately close needle valve No. 1
 - (12) Close needle valve No. 2
- (13) If pressure gage reading is less than 300 psi, repeat operations (10) and (11) above.
- (14) If pressure gage reading is above 350 psi, close the pressure tank valve. Open the shut-off valve to vent pressurized air. Repeat operations (6) to (12) above.
 - (15) Close the pressure tank valve.
- (16) Open the bleeder valve to vent the pressurized air.
- (17) Check and test adjustment of pressure regulator (c below).
- c. Testing Pressure Regulator After Adjusting.
 - (1) Close the shutoff valve.

(2) Slowly open the pressure tank valve and check the pressure gage. If the gage indicates a pressure between 300 and 350 psi, the adjustment is correct.

NOTE

If the pressure gage indicates a pressure below 300 psi or above 350 psi, refer to b above.

5-15. Carrier Frame

Direct support maintenance personnel are authorized to replace the carrier frame.

- a. Removal.
- (1) Remove the pack carrier (5, fig. 4-4) and all straps and attaching hardware from the carrier frame (19).
- (2) Remove the carrier frame (19) and attaching hardware from the tank group.
 - b. Installation.
- (1) Install the carrier frame (19) on the tank group with attaching hardware.
- (2) Install the pack carrier (5), straps, cord, and attaching hardware on the carrier frame (19).

5–16. Packaging Chest

Direct support maintenance personnel are authorized to repair the packing chest (fig. 4-1). Use existing chest as a guide.

CHAPTER 6

GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

Section I. TESTING AND SERVICING

6-1. Hydrostatic and Volumetric Testing

General support maintenance personnel will perform the hydrostatic and volumetric testing (TM 3-1040-251-15) on the following equipment at the intervals specified. An aluminum strip is attached to the item showing the date the testing was performed.

- a. Perform the hydrostatic test on the hose assembly at least once every 6 months.
- b. Perform the hydrostatic test on the fuel tanks at least once every year; perform the volumetric test at least once every 4 years.
- c. Perform the hydrostatic and volumetric test on the air pressure tank at least once every 4 years.

6–2. Storage Life and Service Life— M8 Hose Group

a. Storage Life.

WARNING

To prevent eye injuries or accidental fires, do not use the hose if the 2-year service life is exhausted or if the 5-year storage life is exhausted.

Storage life is 5 years from the date of manufacture which is stamped on the coupling at each end of the hoses.

b. Service Life.

Service life is 2 years from the date stamped directly under the manufacture date. This date is stamped by depot maintenance personnel prior to issuing the hose to using units. The service life is coded as follows: A letter represents the month of the year, and a number represents the year (i.e., A-7 is January 1967, and B-8 is February 1968).

6-3. Preparing Flamethrower for Test

a. General. General support maintenance personnel are authorized to test the flamethrower

for possible fuel leaks. A test gage and adapter must be temporarily installed prior to test .

- b. Disassembly.
- (1) Check to see that the high pressure valve is closed.
- (2) Open the bleeder valve (3, fig. 1-5) and remove the filling plug (4).
- c. Installation. Install the fuel tank test gage from the M27 service kit into the fuel filling opening.

6-4. Test Firing

a. General. Flamethrowers returned to general support maintenance must be thoroughly inspected, cleaned, and test fired. Test firing can be performed at a test range (AR 385-63) by using diesel fuel (para 6-4b) or diesel fuel oil (para 6-4c).

b. Using Diesel Fuel.

NOTE

Test fire the flamethrower at a suitable range (AR 385-63). If a suitable range is not available, test fire the flamethrower using diesel fuel oil (para c below).

- (1) Prepare flamethrower for test (para 6-3).
- (2) Fully charge the pressure tank (para 4-12).
 - (3) Fill the fuel tanks with diesel fuel.
- (4) Connect the hose and gun assembly to the fuel tanks.
 - (5) Open the high pressure valve.
- (6) Check the reading on the test gage. The gage should indicate a pressure between 300 and 350 psi.
- (7) Wait 5 minutes, and again check the reading on the test gage. If the pressure in-

creases 10 psi or more, replace the pressure regulator (para 5-10).

- (8) Install ignition cylinder (para 2-10).
- (9) Fire a burst of fuel for at least 3 seconds (para 2-11).
- (10) Fifteen seconds after completing the firing, check the reading on the test gage.
- (11) Wait 5 minutes, and again check the reading on the gage. If the pressure increases 10 psi or more, replace the pressure regulator (para 5-10).
- (12) Check the connections on the pressure system for possible leaks. Use soapy water on all joints and connections.
 - (13) Remove the ignition cylinder.
- (14) Check the needle valve assembly for possible fuel leaks. If required, adjust the needle valve assembly (para 6-5) or replace the barrel and inlet body (para 6-6).
- (15) At completion of test, close the high pressure valve on the pressure tank.
- (16) Open the bleeder valve (3, fig. 1-5) to release air pressure in the fuel tanks.
- (17) Remove the test gage and replace it in the M27 service kit.
 - (18) Install the filling plug.
- (19) Disconnect the hose assembly from the fuel tank outlet.
- (20) Drain off the excess fuel and wipe the gun, hose, and tank sections with a clean dry cloth.
- c. Using Diesel Fuel Oil. This procedure is followed if a suitable range (a above) is not available.
- (1) Prepare the flamethrower for test (para 6-3).
- (2) Fully charge the pressure tank (para 4-12).
 - (3) Fill the fuel tanks with diesel fuel oil.

- (4) Connect the gun and hose to the fuel tanks.
 - (5) Open the high pressure valve.
- (6) Check the reading on the test gage. The gage should indicate a pressure between 300 and 350 psi.
- (7) Wait 5 minutes, and again check the reading on the gage. If the pressure increases 10 psi or more, replace the pressure regulator (para 5-10).

NOTE

Ignition cylinders are not used for firing the flamethrower when using diesel fuel oil.

- (8) Fire a burst of fuel oil for at least 3 seconds (para 2-11).
- (9) Fifteen seconds after completing the firing, check the reading on the test gage.
- (10) Wait 5 minutes, and again check the reading on the gage. If the pressure increases 10 psi or more, replace the pressure regulator (para 5-10).
- (11) Check the connections on the pressure system for possible leaks. Use soapy water on alll joints and connections.
- (12) Check the needle valve for possible fuel leaks. If required, adjust the needle valve assembly (para 6-5) or replace the barrel and inlet body (para 6-6).
- (13) At completion of the test, close the high pressure valve.
- (14) Open the bleeder valve (3, fig. 1-5) to release air pressure in the fuel tanks.
- (15) Remove the test gage and replace it in the M27 service kit.
 - (16) Install the filling plug.
- (17) Disconnect the hose from the fuel tanks.
- (18) Drain off the excess fuel and wipe the gun, hose and tank section with a clean dry cloth.

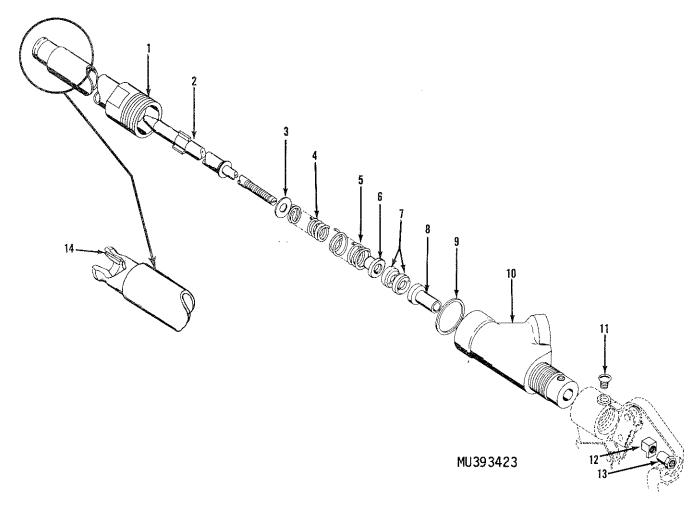
Section II. GUN

6-5. Needle Valve Assembly and Inlet Body

General support maintenance personnel are authorized to replace the inlet body and parts that make up the needle valve assembly.

a. Description and Function. The needle valve assembly (2, fig. 6-1) meters the flow of fuel

from the barrel assembly (1). The rear end of the needle valve assembly (2) is supported in a sleeve bearing (8), that fits into the inlet body (10). Preformed packing (7) are provided to prevent fuel from leaking into the valve grip assembly.



- 1 Barrel assembly
- 2 Needle valve assembly
- 3 Washer
- 4 Valve inner spring
- 5 Valve outer spring

- 6 Packing retainer
- 7 Preformed packing
- 8 Sleeve bearing
- 9 Sealing gasket 10 Inlet body

- 11 Screw
- 12 Valve retractor
- 13 Sleeve nut
- 14 Atomizer hole

Figure 6-1. Barrel-and-inlet body, exploded view.

b. Disassembly.

- (1) Remove valve grip assembly (para 5-4).
- (2) Screw the valve retractor (12) as far as it will go on the threads of the needle valve assembly (2).
- (3) Secure the inlet body (10), in a vise, in such a way that the inlet body will not be damaged.
- (4) Using a wrench, screw the barrel assembly (1) off the inlet body (10). Remove the barrel assembly.
- (5) Position the point of the needle valve assembly (fig. 6-2) on a cushioned surface to avoid damage to the needle valve.

WARNING

To prevent injury to personnel, slowly

release the pressure on the inlet body to prevent the inlet body and springs under tension from flying off the needle valve.

- (6) Push down on the inlet body with one hand. Hold the inlet body under tension, and unscrew the valve retractor from the needle valve. Carefully and slowly release the pressure on the inlet body.
- (7) Remove the inlet body (10, fig. 6-1), sealing gasket (9), sleeve bearing (8), preformed packings (7), packing retainer (6), springs (4 and 5), and washer (3).

c. Inspection.

(1) Check the needle valve parts removed in *b* above for possible damage and wear.



Figure 6-2. Removing valve retractor.

- (2) Check especially the sealing gasket (9), preformed packings (7), and packing retainer (6) for damage and deterioration.
- d. Servicing. Servicing consists of cleaning all the parts of the needle valve assembly of any foreign accumulation.
 - e. Assembly.
- (1) With the chamfer side of the packing retainer (6) facing away from the needle valve, place the packing retainer (6) on the needle valve.
- (2) With the open side of the V on the preformed packing (7) facing the chamfer on the packing retainer (6), place the preformed packings on the needle valve assembly (2). Place the sleeve bearing (8) on the needle valve assembly (2).
- (3) Push the needle valve assembly (2) with the installed parts into the inlet body (10) until the installed parts are seated properly.

NOTE

If the packing retainer or preformed packing should come out when the needle valve assembly is withdrawn, it may be necessary to hold the parts in place with a screwdriver, when withdrawing the needle valve assembly.

- (4) Withdraw the needle valve asssembly from the inlet body by turning it and pulling it slowly out of the inlet body (10).
- (5) Place washer (3), inner spring (4), and outer spring (5) on the needle valve and insert these parts as a unit into the inlet body.
- (6) Compress these parts by placing the needle valve assembly (2) on a cushioned surface and pushing down on the inlet body (10) permitting the needle valve assembly to come through the inlet body (fig. 6–2). Screw the valve retractor onto the threaded end of the needle valve as far as it can be turned with fingers.
- (7) Install a new sealing gasket (9, fig. 6-1).
- (8) Slide the barrel assembly (1) over the needle valve assembly and screw it into the inlet body.
 - (9) Tighten the barrel assembly (1).
- (10) Unscrew the valve retractor (12) until it is at least two-thirds off the needle valve threads.
- (11) Install the valve grip assembly (para 5-4).
- (12) Prepare the flamethrower for test firing (para 6-3).
 - (13) Test fire the flamethrower (para 6-4).

6-6. Barrel Assembly

General support maintenance personnel are authorized to replace the barrel assembly.

a. Removal.

- (1) Remove the valve grip assembly (para 5-4).
- (2) Screw the valve retractor (12, fig. 6-1) as far as it will go on the threads of the needle valve assembly (2).
- (3) Secure the inlet body (10) in a vise, in such a way that the inlet body will not be damaged.
- (4) Using a wrench, screw the barrel assembly (1) off of the inlet body (10).

b. Inspection.

- (1) Inspect the barrel (1) for possible damage. Check especially the threads on the barrel for damage.
- (2) Clean the exposed end of the needle valve (2) of foreign material.
- (3) Clean the atomizer hole (14) in the needle valve assembly (2), if required.
- (4) Install the valve grip assembly (para 5-4).

c. Assembly.

(1) Slide the barrel assembly (1) over the

needle valve assembly and screw it into the inlet body.

- (2) Tighten the barrel (1).
- (3) Unscrew the valve retractor (12) until it is at least two-thirds off the needle valve threads.

6-7. Needle Valve and Valve Barrel Lapping Procedure

- a. Lapping the needle valve assembly (2, fig. 6-1) into the nozzle of the barrel assembly (1) is a general support maintenance responsibility.
- b. Separate the needle valve and barrel assembly as an assembly unit from the valve section.
- c. Overcome the spring tension and withdraw the needle valve assembly into the barrel assembly. Apply a valve-grinding compound (lapping compound) between the nozzle seat and the needle point contacting surfaces.
- d. Permit the spring to force the end of the needle against the seat inside the nozzle.
- e. Turn the needle valve until the contacting surface of the needle and seat make a tight connection when seated.
- f. Reassemble and lubricate the gun group and test fire the weapon.

Section III. FUEL

6-8. Quick-Disconnect Coupling Assembly

General support maintenance personnel are authorized to replace the quick-disconnect coupling assembly.

a. Removal.

- (1) Close the pressure tank valve (11, fig. 1-5).
 - (2) Open the bleeder valves (3).
- (3) Open the coupling lock (1, fig. 1-4), coupling cams (6), and remove the hose assembly.

(4) Remove the quick-disconnect coupling assembly (fig. 1-7).

b. Installation.

- (1) Apply antiseize compound (item 1, Table 4-1) on the threads of the fuel delivery pipe (9, fig. 1-5).
- (2) Install the quick-disconnect coupling assembly (fig. 1–7).
- (3) Insert the hose coupling, close the coupling cams (6, fig. 1-4) and close the coupling lock (1).
 - (4) Close the bleeder valves (3, fig. 1-5).

Section IV. PRESSURE

6–9. Pressure Tank Safety Valve and Plug Assembly

General support maintenance personnel are authorized to replace the pressure tank safety valve and plug assembly.

- a. Inspection. Check the pressure tank valve for the following identification:
- (1) The letter D must be stamped on the spool (11, fig. 4-2) in six places or on the valve

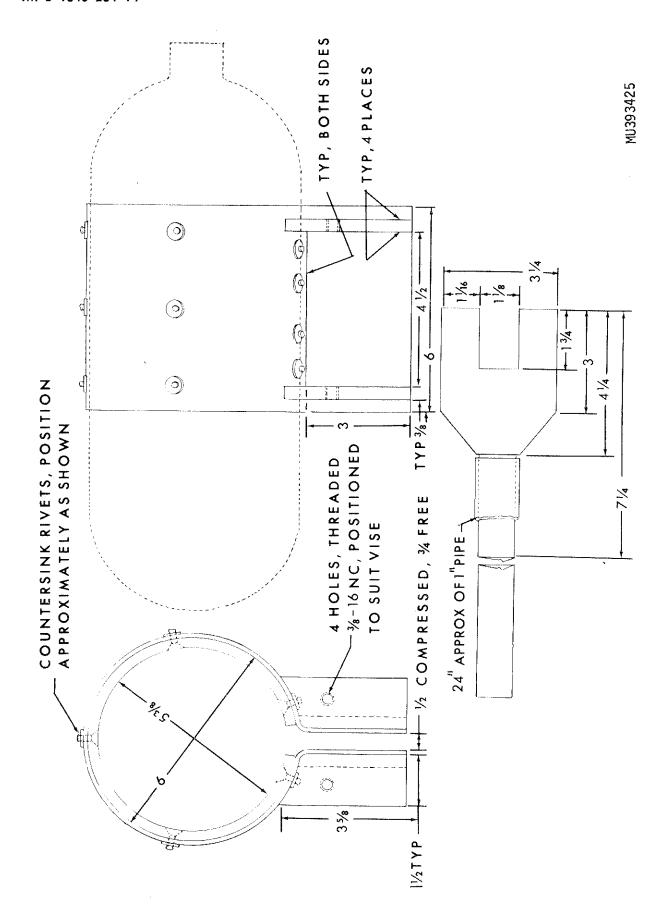


Figure 6-3. Holding device and valve wrench.

body (12). If the letter D appears on the spool or valve body, it is the authorized type of valve.

- (2) If the spool or valve body are not identified properly ((1) above), replace the valve body.
- (3) Check the operation of the pressure tank valve (12) by turning the valve handle (6) clockwise and counterclockwise. The valve should operate with ease. Replace the value if it is difficult to operate.
- b. Manufacture. To prevent damage to the pressure tank, a locally fabricated valve wrench and holding device is recommended.
- (1) Valve wrench. Select a block of steel 1 1/4 by 3 1/4 by 4 1/4 inches (fig. 6–3). Along the 3 1/4-inch surface, measure 1 1/16 inches in from one end and mark the surface. Measure 1 1/16 inches in from the other end and mark that surface also. Along the 4 1/4 inch surface, measure a depth of 1 3/4 inches in from the two 1 1/16 inch marked places. Cut out the 1 3/4 inch piece from the steel block. Measure 3 inches along the two sides of the 4 1/4 inch surface and mark the surfaces. Measure 1-inch in toward the center of the block from both ends along the uncut 3 1/4-

inch surface and mark the surfaces. Cut off the excess steel in the angles between the 3-inch marks and the 1-inch marks. Drill a hole in the steel block for a depth of about 1/2-inch to suit the inside diameter of a 1-inch pipe. Select a solid round steel rod to fit the hole and cut 3 1/2-inches long. Cut a 24-inch length of 1-inch pipe to use as a handle. Weld handle, bar stock, and steel block together.

(2) Holding device. Select a piece of steel 1/8 by 6 by 25 inches (fig. 6-3). Starting from the center (121/2 inch) form it into a 6-inch diameter circle. When the circle is completed bend the two ends approximately 3 inches out from the circle. Make up two pieces of steel each 3/8 by 3 by 41/2 inches and four pieces of steel each 3/8 by 1 1/2 by 3 5/8 inches. Along the four pieces of steel that have a length of 3 5/8 inches, taper the 1 1/2 inch surface to butt against the outside contour of the 6-inch circle. Weld one piece of steel 3/8 by 3 by 41/2 inches and two pieces of steel 3/8 by 1 1/2 by 3 5/8 inches to each end projecting from the circle. Drill four holes threaded 3/8-16NC in the four 3/8 by 11/2 by 35/8 inch steel pieces positioned to suit the vise. Install

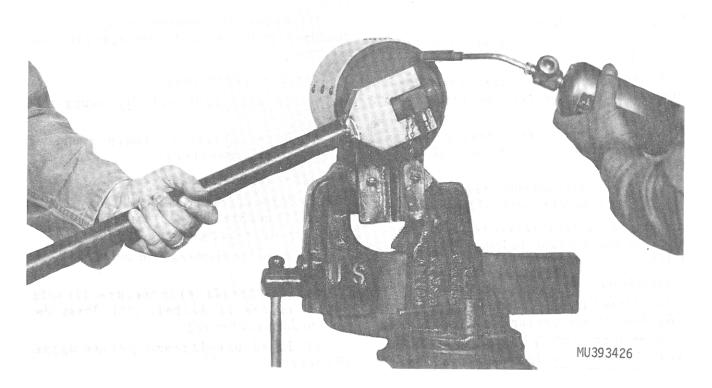


Figure 6-4. Pressure tank and pressure tank valve.

four screws. Drill 17 holes, which will be used for rivets, in the 1/8 by 6 by 25 inch piece of steel at locations similar to those shown in figure 6–3. Prepare a piece of leather 5/16 by 6 by 18 inches and rivet it in place inside the steel circle using approximately 17 countersunk rivets and washers as shown in figure 6–3. The holding device has a spread of about 3/4 inch when free and a spread of about 1/2 inch when compressed.

c. Removal.

- (1) Perform the operations in paragraph 4-13a and b.
- (2) Disconnect the coupling nut (13, fig. 5-6) from the pressure tank valve (18) and remove the valve shaft (7).
- (3) Secure the pressure tank in the holding device (fig. 6-3). Place the parts in a vise shown in figure 6-4.
- (4) Remove the plug assembly (17, fig. 5-6) and plug cap (14).
- (5) Remove the check valve assembly (20) and the valve cap (21).
- (6) With the wrench (fig. 6-4) remove the pressure tank valve from the pressure tank. The use of a propane torch or blow torch on the neck of the pressure tank will make it easier to remove the pressure tank valve.

d. Assembly.

NOTE

Use antisieze compound or tape on pipe threads before assembly.

- (1) Screw the pressure tank valve into the opening of the pressure tank and tighten with the wrench (fig. 6-4).
- (2) Screw a check valve assembly (20, fig. 5-6) to the side of the pressure tank valve (18) and tighten.
- (3) Screw a plug assembly (17) to the bottom of the pressure tank valve (18) and tighten.
- e. Charging and Testing Pressure Tank. Charge and test the pressure tank for leaks (TM 3-1040-221-12).

f. Installation.

- (1) Connect the open end of the valve shaft (7, fig. 5-6) to the pressure tank valve (18).
- (2) Connect the nut (13) that is on the valve shaft (7) to the pressure tank valve.
- (3) Install the pressure tank to the fuel tanks (para 4-13c).

6-10. Pressure Regulator

General support maintenance personnel are authorized to replace the diaphragm, springs, strainer, valve adapters, and related hardware.

a. Removal.

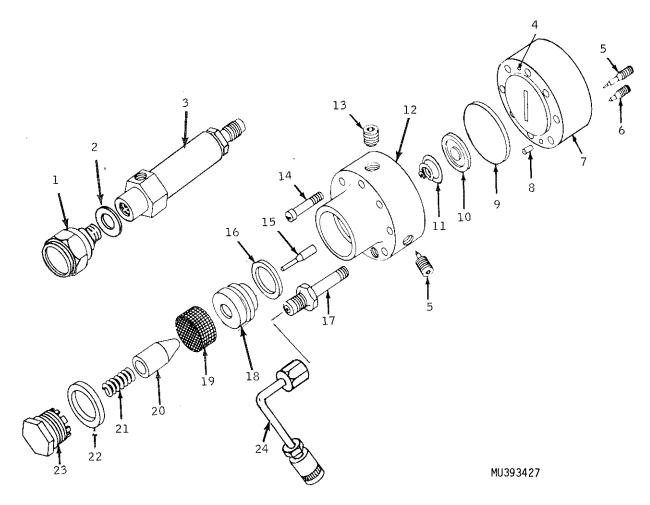
- (1) Remove the pressure tank and valve assembly (para 4-13a and b).
- (2) To gain access to the pressure regulator, remove one cord attaching the carrier pack to the frame.
- (3) Hold the pressure regulator and disconnect the diffusion tube nut.
- (4) Remove the tube assembly (24, fig. 6-5) and adapter (17).
- (5) Unscrew the safety valve and nipple (13) from the pressure regulator.
- (6) Loosen the spring retaining plug (23) and remove it slowly to prevent the spring (21) from popping out of the cavity.
- (7) Remove the preformed packing (22), spring (21), valve (20), strainer (19), valve seat assembly (18), gasket (16), and push rod (15).
- (8) Remove eight screws (14). Slowly separate the pressure regulator body (12) from the dome (7) to prevent losing the compression spring (11).
- (9) Remove the compression spring (11), diaphragm plate (10), and diaphragm (9) from the dome.

b. Inspection and Cleaning.

- (1) Clean all parts with drycleaning solvent.
- (2) Inspect all parts for damage, wear, deterioration, and serviceability.

c. Assembly and Installation.

- (1) Press the center coil of the compression spring (11) into the plate (10). Install both parts into the cavity of the regulator body (12).
- (2) Place the diaphragm on top of the plate (10).
- (3) Aline the pin (8) in the dome (7) with the mating hole in the body (12). Press the dome to the regulator body.
- (4) Install the eight screws (14) and tighten all screws.
- (5) Position the push rod (15) in the body (12).



- 1 Safety head
- 2 Gasket
- 3 Safety valve
- 4 Index pinhole
- 5 Needle valve No. 1
- 6 Needle valve No. 2
- 7 Pressure regulator dome 8 Flange grommet
- 9 Pressure regulator diaphragm
- 10 Diaphragm plate
- 11 Compression spring 12 Pressure regulator body
- 13 Pipe nipple
- 14 Screw
- 15 Push rod
- 16 Valve seat gasket

- 17 Straight adapter
- 18 Valve seat assembly
- 19 Strainer
- 20 Valve
- 21 Spring
- 22 Packing
- 23 Spring retaining plug
- 4 Tube assembly

Figure 6-5. Pressure regulator, safety valve, and safety head, exploded view.

- (6) Install the gasket (16), valve seat assembly (18), and strainer (19).
- (7) Install the valve (20) so that the depression in the valve is seated over the end of the push rod (15).
 - (8) Install the spring (21).
- (9) Slide the preformed packing over the threaded portion of the plug (23). Screw the plug (23) into the body (12).
- (10) Apply antiseize compound or tape to the threads on the nipple (13).
- (11) Screw the nipple (13) into the regulator body (12).
- (12) Screw the side of the safety valve (3) to the nipple (13).
- (13) Tighten the pressure regulator to the safety valve by hand until it is tight and in line with one another as shown in figure 4–2.

- (14) Install adapter (17, fig. 6-5) and tighten.
- (15) Install gasket (2) on the safety valve (3).
 - (16) Install safety head (1).
- (17) Install pressure regulator assembly with the diffusion tube nut.
- (18) Loosely connect the tube assembly (24) to inlet adapter (17).
- (19) Locate the quick-disconnect coupling half so that it is an equal distance between the fuel tanks. Tighten the tube nut to adapter (17).
- (20) Connect carrier pack to frame with cord.
- (21) Install pressure tank and valve assembly (para 4-13c).

CHAPTER 7

SHIPMENT, ADMINISTRATIVE STORAGE, AND DESTRUCTION TO PREVENT ENEMY USE

Section I. SHIPMENT AND ADMINISTRATIVE STORAGE

7-1. Shipment

The flamethrower is shipped in its wood packing chest. Prepare the flamethrower for shipment as follows:

a. See that the after-operation services have been performed (para 4-17).

b. Seal all openings with masking tape and repack flamethrower.

7-2. Administrative Storage

Store the flamethrower in the packing chest. Refer to TM 740-90-1 for administrative storage instructions on this equipment.

Section II. DESTRUCTION TO PREVENT ENEMY USE

7-3. General

When capture by or abandonment of the flame-thrower to an enemy is imminent, the responsible unit commander must make the decision either to destroy the flamethrower or to render it in-operative. Based on this decision, orders are issued which cover the desired extent of demolition. Whatever method of demolition is employed, it is essential to destroy the same vital parts of all units and all corresponding repair parts.

7-4. Gun

Demolish gun, valves, and tubes with a sledgehammer, ax, or other means.

7-5. Air Pressure Tank and Fuel Tanks

Fire small arms bullets through the fuel tanks, pressure tank, and pressure regulator. If necessary to fire pointblank into the pressure tank, first open the high-pressure valve to release any air pressure to eliminate any danger of explosion.

7-6. Hose Assembly

Destroy the hose by cutting it with an ax or by smashing fittings with a heavy implement.

7-7. Ignition Cylinders

Destroy ignition cylinders by burning them. Personnel should stay several yards away from the fire, because the ignition cylinders ignite with a slight detonation.

APPENDIX A

REFERENCES

FM 20-33	Combat Flame Operations
TM 3-366	Flame Fuels
TM 3-1040-221-12	Operator's and Organizational Maintenance Manual, Service Kit, Portable Flamethrower-Riot Control Agent Disperser, M27
TM 3-1040-251-15	Operator's, Organizational, Direct Support, General Support, and Depot Maintenance Manual, Test Set, Flamethrower-Riot Control Agent Dis- perser, Hydrostatic-and-Volumetric, 6,000 PSI, M5
TM 38-750	The Army Maintenance Management System (TAMMS)
TM 9-213	Painting Instructions for Field Use
TM 740-90-1	Administrative Storage of Equipment
SB 700–50	Expendable Items: (Except: Medical, Class V, Repair Parts and Heralsic Items).

APPENDIX B

BASIC ISSUE ITEMS LIST AND ITEMS TROOP INSTALLED OR AUTHORIZED LIST AND ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS

Section I. INTRODUCTION

Code

B-1. Scope

This appendix lists basic issue items, items troop installed or authorized and repair parts required for the performance of organizational, direct support, general support, and depot maintenance of the M2A1-7 portable flamethrower.

B-2. General

This Basic Issue Items, Items Troop Installed or Authorized, Repair Parts, and Special Tools List is divided into the following sections:

- a. Basic Issue Items List—Section II. Not applicable.
- b. Items Troop Installed or Authorized List—Section II. Not applicable.
- c. Repair Parts List—Section IV. A list of repair parts authorized at the organizational level for 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 numerical sequence, with the parts in each group listed in figure and item number sequence.
- d. Special Tools List—Section V. Not applicable.
- e. Repair Parts List—Section VI. A list of repair parts authorized at the direct support, general support, and depot levels for the performance of maintenance. The list also includes parts which must be removed for the replacement of the authorized parts. Parts lists are composed of functional groups in ascending numerical se-

quence, with parts in each group listed in figure and item number sequence.

- f. Special Tools List—Section VII. Not applicable.
- g. Federal Stock Number and Reference Number Index—Section VIII. A list, in ascending numerical sequence, of all Federal stock numbers appearing in the listing, followed by a list, in alphameric sequence, of all reference numbers appearing in the listings. Federal stock numbers and reference numbers are cross-referenced to each illustration figure and item number appearance.

B-3. Explanation of Columns

The following provides an explanation of columns found in the tabular listing.

- a. Source, Maintenance, Recoverability Codes (SMR).
- (1) Source code. Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code Format as follows:

Definition

PA Item procured and stocked for anticipated or known usage.

PB Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply systems.

PC Item procured and stocked and which

Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.

Code	Definition	Code Definition
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.	XA Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly. XB Item is not procured or stocked. If
PE	Support equipment procured and stocked for initial issue or outfitting to	not available through salvage, requisition.
	specified maintenance repair activities.	NOTE Cannibalization or salvage may be used
PF	Support equipment which will not be stocked but which will be centrally procured on demand.	as a source of supply for any items source coded above except those coded XA and aircraft support items as re-
PG	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which because of probable discontinuance or shutdown of production facilities would provide uneconomical to reproduce at a later time.	stricted by AR 700-42. (2) Maintenance code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code Format as follows:
KD	An item of depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.	USE (THIRD POSITION): The maintenance code entered in the third position indicates the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will
KF	An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.	indicate one of the following levels of maintenance: Code Application/Explanation C Crew or operator maintenance performed within organizational maintenance.
KB	Item included in both a depot overhaul/ repair kit and a maintenance kit.	O Support item is removed, replaced, used at the organizational level.
MO	Item to be manufactured or fabricated at organizational level.	F Support item is removed, replaced, used at the direct support level.
MF	Item to be manufactured or fabricated at the direct support maintenance level	H Support item is removed, replaced, used at the general support level. D Support items that are removed, replaced words to D and Market D and Mark
MH	Item to be manufactured or fabricated at the general support maintenance level.	placed, used at Depot, Mobil Depot, Specialized Repair Activity only. REPAIR (FOURTH POSITION): The main-
MD	Item to be manufactured or fabricated at the depot maintenance level.	tenance code entered in fourth position indicates whether the item is to be repaired and identifies
AO	Item to be assembled at organization level.	the lowest maintenance level with the capability to perform complete repair (i.e., all authorized
AF	Item to be assembled at direct support maintenance level.	maintenance functions). This position contains one of the following maintenance codes:
AH	Item to be assembled at general support maintenance level.	Code Application/Explanation O The lowest maintenance level capable of
AD	Item to be assembled at depot maintenance level.	complete repair of the support item is the organizational level.

F The lowest maintenance level capable of complete repair of the support item is the direct support level.

H The lowest maintenance level capable of complete repair of the support item is the general support level.

- D The lowest maintenance level capable of complete repair of the support item is the depot level.
- L Repair restricted to designated Specialized Repair Activity.
- Z Non-repairable. No repair is authorized.
- B No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.
- (3) Recoverability code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code Format as follows:

Recoverability Codes

Definition

- Non-repairable. When unserviceable, condemn, and dispose at the level indicated in position 3.
- O Repairable item. When uneconomically repairable, condemn and dispose at organizational level.
- F Repairable item. When uneconomically repairable, condemn and dispose at the direct support level.
- H Repairable item. When uneconomically repairable, condemn and dispose at the general support level.
- D Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
- L Repairable item. Repair, condemnation and disposal not authorized below Depot/Specialized Repair Activity level.
- A Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions.

- b. Federal Stock Number. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.
- c. Description. Indicates the Federal item name and a minimum description required to identify the item. The last line indicates the reference number followed by the applicable Federal Supply Code for Manufacturer (FSCM) in parentheses. The FSCM is used as an element in item identification to designate manufacturer or distributor or Government agency, etc., and is identified in SB 708-4.
- d. Unit of Measure (U/M). Indicates the standard or basic quantity by which the listed item is used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation, e.g., ea, in., pr., etc., and is the basis used to indicate quantities and allowances in subsequent columns. When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.
- e. Quantity Incorporated in Unit. 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 no specific quantity is applicable, e.g., shims, spacers, etc.
- f. 15-Day Organizational Maintenance Allowances.
- (1) Repair parts source coded PA, PB, PC, PD, PE, PF, and/or PG are authorized for use at the organizational level, and will be requisitioned on an "as required" basis until stockage is based on demand in accordance with AR 710-2.
- (2) Major Army commanders are authorized to approve reductions in the range of support items authorized for use in units within their commands. Recommendations for increases, in range of items authorized for use, should be forwarded to the Commander, Edgewood Arsenal, Attn: SMUEA-DE-ETL, Aberdeen Proving Ground, MD 21010, for action on such recommendations. Changes approved will be reflected in a revision to the manual.
 - g. 30-Day DS/GS Maintenance Allowances.
- (1) Repair parts source coded PA, PB, PC, PD, PE, PF, and/or PG authorized for use at the direct support (DS) and/or general support

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- (GS) levels will be requisitioned on an "as required" basis.
- (2) The repair parts authorized at the DS/GS levels are for the maintenance mission at these levels.
- (3) Requirements for repair parts stockage and for distribution to supported units will be based on demand and determined in accordance with AR 710-2.
- h. 1-Year Allowances Per 100 Equipments/ Contingency Planning Purposes. Total quantities of repair parts required for distribution and contingency planning purposes will be based on demand data.
- i. Depot Maintenance Allowance Per 100 Equipments. Repair parts authorized for use at the depot level will be requisitioned on an "as required" basis.
- *j. Illustration.* This column is divided as follows:
- (1) Figure number. Indicates the figure number of the illustration on which the item is shown.
- (2) *Item number*. Indicates the callout number used to reference the item on the illustration.

B-4. Special Information

- a. Detailed assembly instructions for items source coded "A" are found in this manual. Assembly components are listed immediately following the item to be assembled.
- b. Repair parts kits are listed in Repair Kit Group in ascending Federal stock number sequence. The Federal Stock Number and Reference Number Index will reference the word KIT in the figure number column
- c. Action change codes indicated in the lefthand margin of the listing page denote the following:

N-indicates an added item.

C-indicates a change in data.

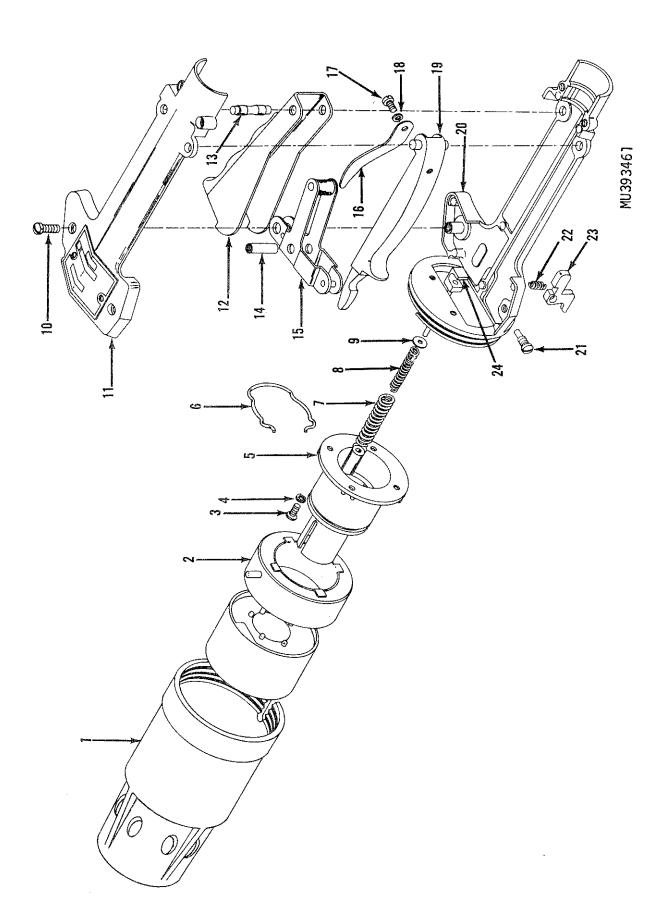
R-indicates a change in FSN only.

B-5. How to Locate Repair Parts

- a. When Federal stock number or reference number is unknown:
- (1) First. Using the Table of Contents, determine the functional group within which the repair part belongs, i.e., gun, hose, tank. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.
- (2) Second. Find the illustration covering the group to which the repair part belongs.
- (3) *Third*. Identify the repair part on the illustration and note the illustration figure and item number of the repair part.
- (4) Fourth. Using the Repair Parts Listing, find the functional group to which the repair part belongs and locate the illustration figure and item number noted on the illustration.
- b. When Federal stock number or reference number is known:
- (1) First. Using the Index of Federal Stock Numbers and Reference Numbers, find the pertinent Federal stock number or reference number. This index is in ascending FSN sequence followed by a list of reference numbers in ascending alphameric sequence, cross-referenced to the illustration figure number and item number.
- (2) Second. Using the Repair Parts Listing, find the functional group of the repair part and the illustration figure number and item number referenced in the Index of Federal Stock Numbers and Reference Numbers.

B-6. Abbreviations

Abbreviations	Explanation
NPT	National Pipe Thread
une	Unified course thread



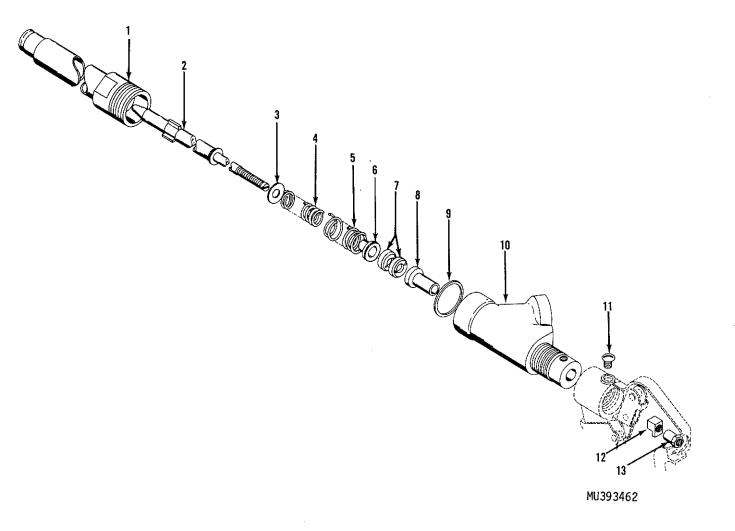


Figure B-2. Gun group, valve section.

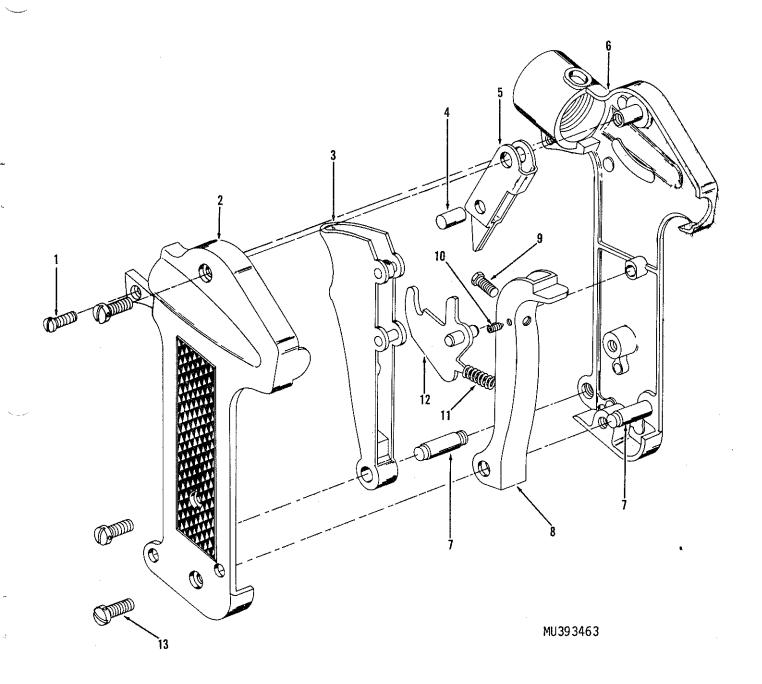


Figure B-3. Gun group, valve section, valve grip parts.

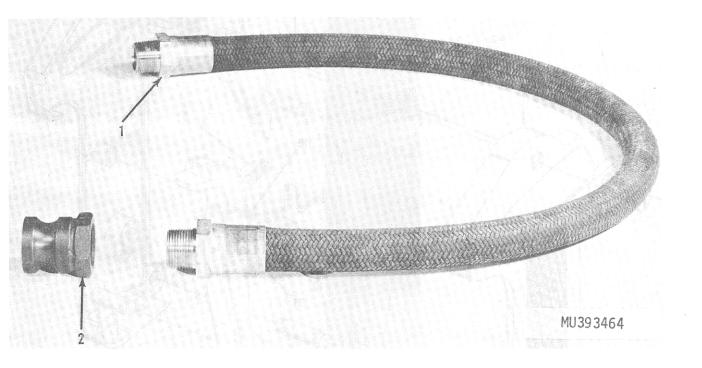


Figure B-4. Hose group.

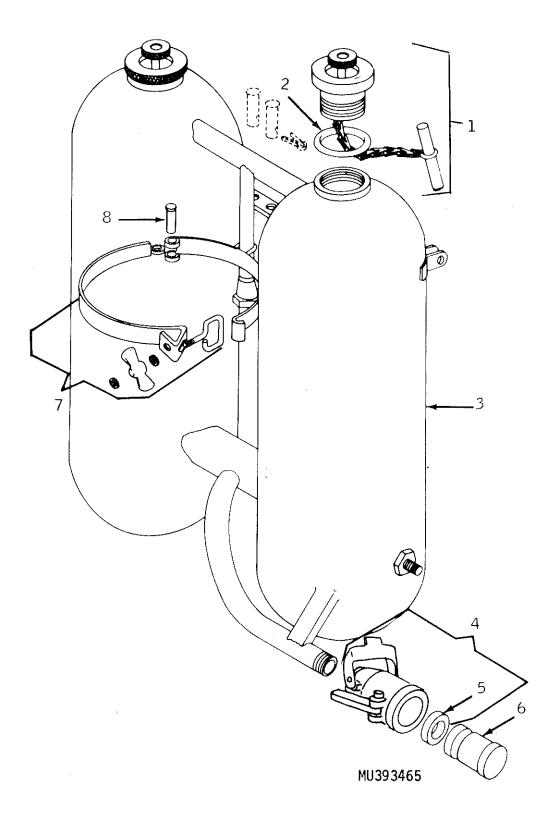


Figure B-5. Tank group, fuel section.

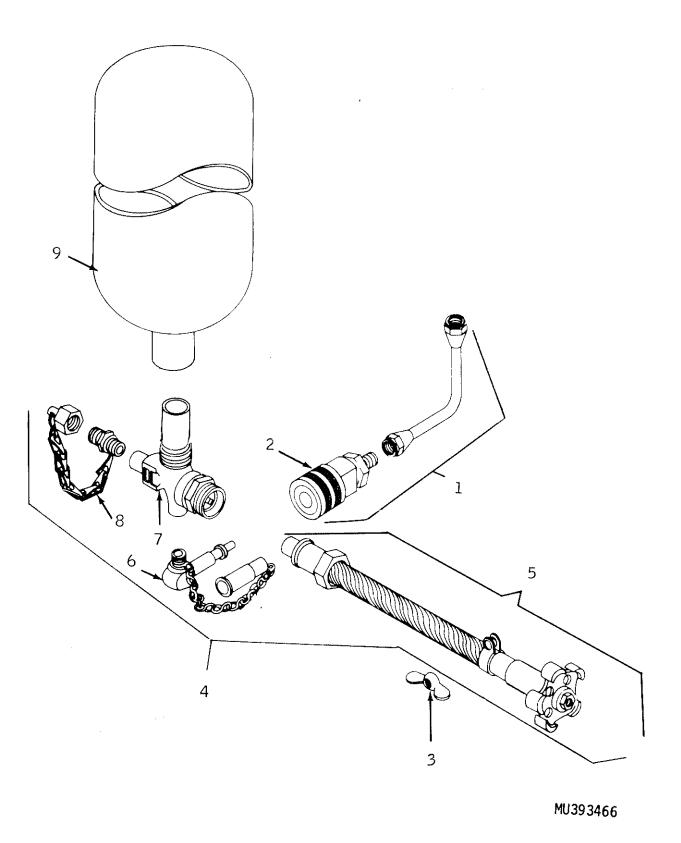
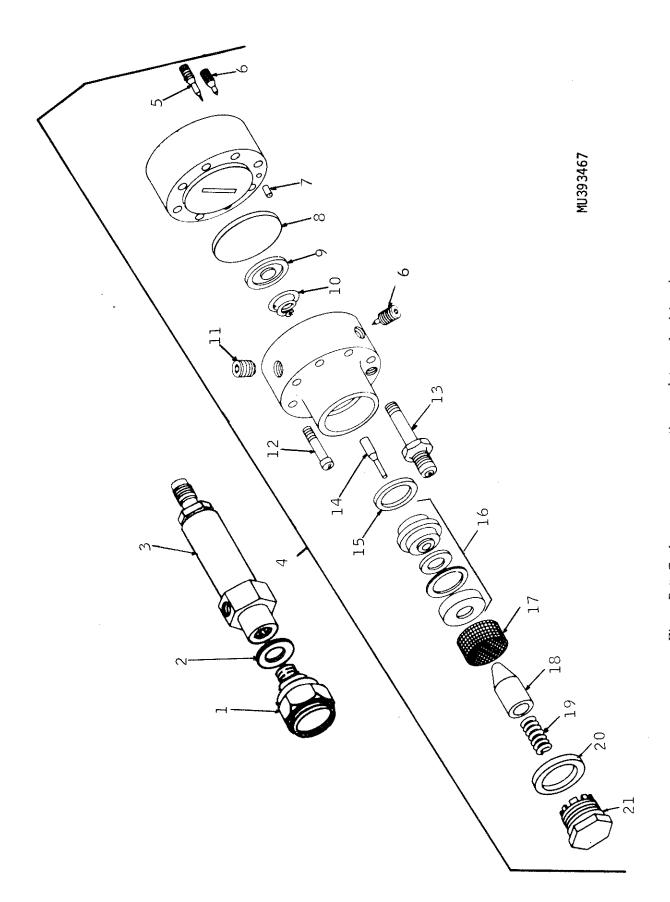


Figure B-6. Tank group, pressure section.



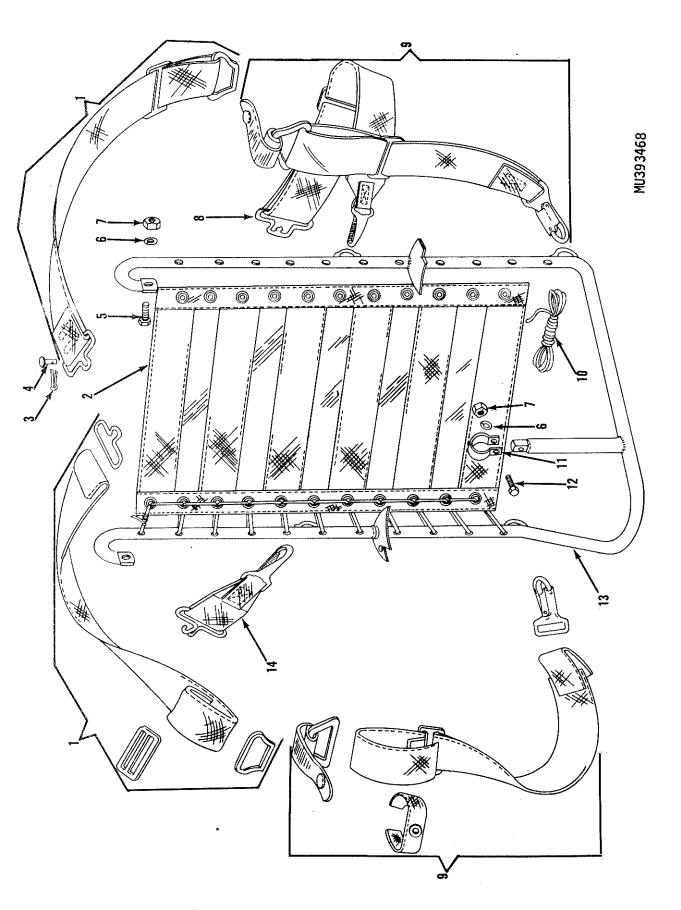


Figure B-8. Tank group, carrier section.

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(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION Reference Number & Mfr. Code Usable on Code	UNIT OF MEAS	S C C C C C C C C C C C C C C C C C C C	15.DAY ORG MAINTEN (a) (b) 1.5 (c)	0 % %		(7) 11.1.USTRATION (a) (b) FICURE ITEM NO. NO.	RATION (b) ITEM NO.
		GROUP 100 - GUN GROUP					POPULATION AND AND AND AND AND AND AND AND AND AN		
		IGNITION SECTION							
		IGNITION GRIP PARTS							4-1
PB 0Z Z	1040-347-2429	1040-347-2429 SHIELD NOZZLE	ea	_				-	
		C81-1-4921 (81361)						·	•
		GROUP 300 - TANK GROUP							······································
PB 0H Z	PB OH Z 1040-784-9218	PLUG ASSEMBLY, FILLING	a G	2				B-5	
		D81-1-4883 (81361)							
PA 0Z Z	5330-265-1092	PA 0Z Z 5330-265-1092 PACKING, PREFORMED,	e	2	*****			8-5	2
		synthetic rubber, cross-sectional dim. 0.143 in. max,				7			***************************************
		cross-sectional H, 1.302 in. max center hole dia			······································				
		MS29513-219 (96906)			•••				
PB 0Z Z	5330-202-4249	PB OZ Z 5330-202-4249 GASKET, SYNTHETIC RUBBER	e B	,				8-5	22
		1-1/16 in. dia of aperture, 1-9/16 in. od, 7/32 in.							
		thk				.,			,
		A81-1-4573 (81361)			***************************************				

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TM 3-1040-204-14 Section IV. REPAIR PARTS LIST - Continued

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(3) DESCRIPTION Reference Number & Mfr. Code Usable on Code	PLUG, QUICK DISCONNECT	B81-1-514 (81361)	NUT, PLAIN, WING	1/4-20UNC-2B	A81-1-877 (81361)	TANK AND VALVE PRESSURE	B81-1-879 (81361)	CARRIER SECTION	STRAP ASSEMBLY, UPPER	B81-1-520 (81361)	PACK, CARRIER	(81-1-873 (81361)	STRAP ASSEMBLY	B81-1-519 (81361)	STRAP ASSEMBLY, LOWER	B81-1-520 (81361)	
(2) FEDERAL STOCK NUMBER	4730-160-8062		5310-209-2652			1040-293-5891			1040-205-0358		1040-696-1374		1040-205-0360		1040-205-0361		
SMR CODE	PB 0Z Z		PB 0Z Z		WATER-A-W	PB OH H		white-service should be a service should be a	PA 0Z Z		PA 0Z Z	Mark 1 Mark - 1 M	PA 0Z Z		PA 0Z Z		

TM 3-1040-204-14 Section IV. REPAIR PARTS LIST - Continued

N W					·	
ILLUSTRATION (a) (b) FICARE ITEM NO. NO.	3 10			******		
	B-8			·	8-8	
10NAL (LW (d) 51-160						
ANIZATI ANCE AI (c) 21 50					**,	
15-DAY ORGANIZATIONAL MAINTENANCE ALW (4) (5) (c) (15					,	
S-DAY				····	·····	
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Reference Number &	CORD, NYLON,	9 carriers per braid, 1 yarn	olive drab,	MIL-C-43307	STRAP ASSEMBLY, SHORT	B81-1-549 [81361]
×		9	6	Ξ		₩ ₩
A B	4020-993-5383				1040-205-0359	
FEDERAL STOCK NUMBER	993-				205-	
Lt. (1)	120-				40-,	
	Z 40				01 Z	
SMR	Z0				PA 02	
- 0	PB				PA	

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST

(I) SMR CODE	(2) FEDERAL STOCK	(3) DESCRIPTION	(4) UNIT OF	(5) QTY INC IN	(6) 30-DAY DS MAINT ALLOWANCE (a) (b) (c)	MAINT NCE (c)	(7) 30-DAY GS MAINT ALLOWANCE (a) (b) (c)	MAINT ANCE	(8) 1-YR ALW PER 100	(9) DEPOT MAINT ALW PER	(10) ILLUSTRATION (a) (b)) MATION (b)
	NUMBER	Reference Number & Mir. Code Usable on Code			2	w	2 0	s)	CNTGCY	100 EQUIP	FIGURE NO.	ITEM NO.
PB FH H	1040-347-2411	GUN, PORTABLE, FLAMETHROWER, M7	ea	ļ						•-	B-1,	
		081-1-4920 (81361)						.,	-	Julius .	B-2,	
											B-3	
		GROUP 100 - GUN GROUP		, , , , , , , , , , , , , , , , , , ,	**					*		
		IGNITION SECTION		************			~			···		
		IGNITION GRIP PARTS					······································					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Z Z0	PB 0Z Z 1040-347-2429	SHIELD, NOZZLE	ea							[-]	3-1	
		C81-1-4921 (81361)					·····					
FZ Z	PB FZ Z 1040-160-8082	CASE, SPRING ASSEMBLY	ea	_			 				8-1	
		B81-1-444 (81361)									······································	
PA FZ Z	5305-984-6189	SCREW, MACHINE,	ea	4							B-1 3	
		stl, pltd, pan hd, cross recess								·····		
		drive, No. 8-32, 0.250 in. 1g										
		MS35206-241 (96906)					• • • • • • • • • • • • • • • • • • • •					
PA FZ Z	5310-045-3299	WASHER, LOCK,	ea	4							B-1-4	
		stl, pltd, No. 8 nom screw size										
		MS35338-42 (96906)										

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

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(3)	(2)	(3)	Ŧ	(2)	(9)	(7)	8		(10)	
SMR	FEDERAL STOCK	DESCRIPTION	UNIT	OTY INC IN	ALLOWANCE (a) (b) (c)	ALLOWANCE (a) (b) (c)	ALW PER	MAINI ALW PER	ILL.USTRATION (a) (b)	NO ~
	NUMBER	Reference Number & Mfr. Code Usable on Code	MEAS	TIND	1.20 21.50 51.100	1-20 21-50 51-100	CNTGCY	100 F	FIGURE ITEM NO. NO.	≱ .
FZ Z	1040-347-2427	BODY, IGNITION HEAD	ea	_					B-1-5	
		081-1-4922 (81361)								
FZ Z	5340-160-8078	RING, SNAP	ea	_					B-1	*****************************
		A81-1-460 (81361)						***************************************	**************************************	····
FZ Z	Z 1040-347-2408	SPRING, HELICAL COMPRESSION	ea		TOTAL PARTIES AND	e primo especial de la la cale		<u></u>	8-1 7	
		C81-1-4944 (81361)				No. of the last of		<u> </u>		
FZ Z	5360-347-2409	SPRING, HELICAL COMPRESSION	ea			A Miller of the Assessment Assess	*************************************	<u> </u>	8-1 8	
		(81-1-4943 (81361)	***************************************				004 Vision V 000-00-00-0			
FZ Z	5310-596-0134	WASHER, FLAT	ea			· · · · · · · · · · · · · · · · · · ·		<u> </u>	8-1	
		rd, brass, 0.130 id, 0.359 od,				TO A A SECURE VIEW AND A SECUR			1994 1994 - Billion a canadiana de ac	
		0.025 in. thk								
		A81-1-4984 (81361)								
7 74	5305-614-0245	SCREW, MACHINE	ea	4	-			<u> </u>	B-1 10	<u> </u>
		stl, pltd, fillister hd, No. 10-24,							nom P . Francis Announce Es	
		.5/8 in. 1g								***************************************
		MS35265-64 (96906)	correspondent accessors.		art (11 abatta) Abalia anadha		WELVES AND TOWN A			
			-		ar the little by the common		P. Mary J. H.	<i></i>		

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

(10) ILUSTRATION (a) (b) FIGARE ITEM NO. NO.	p	TOTAL STATE STATE OF THE STATE	1 12		<u>e</u>		7		2	7.00	9 1	4.00000,010		W/T DAMA			
19) MAINT ULW PER 100 EQUIP	<u>.</u>				8_				<u>-8</u>	e account Amend	8-		<u>-</u>				
(8) 1.YR ALW PER 100 EQUIP CNTGCY		/*************************************					T					¥ 16171	PPER V PRESENTA A A SANSA A A		<u>.</u>		**************************************
(7) 30-DAY GS MAINT ALLOWANGE (a) (b) (c) 1-20 21-50 51-100		/HVA.dlabda												- Power A Man	200-200-00	Alfarentia kilomonia en	
30-D/V (A) (A) 1-20			- 11					······································							and the plant of the con-		
(6) C. DS. MAINT O. WANGE (b) (1) 21.50 5100			*******														
30-DAY DS MAINT ALLOWANCE (a) (b) 7.3 1-20 21-50 5-10			entalities (constitution) for	· · · · · · · · · · · · · · · · · · ·			······································						PP-V-107-101-VALA				
S (S)			r-		r												
(A) CNIT CF OF MEAS	ea	FR TT 048 WAS COME.	ea		ea		ea		ea		e B	w	ea			·	
(3) DESCRIPTION Reference Number & Mfr. Code Osable on Code	COVER, IGNITION GRIP	D81-1-4924 (81361)	LEVER ASSEMBLY, IGNITION	C81-1-4931 (81361)	PIN, SHOULDER, HEADLESS	A81-1-4932 (81361)	PIN, STRAIGHT, HEADLESS	A81-1-4939 (81361)	LIMK, IGNITION	B81-1-4938 (81361)	SPRING, IGNITION SAFETY LEVER	B81-1-4927 (81361)	SCREW, MACHINE	stl, pltd, pan hd, cross drive, No.	8-32, 0.250 in. lg	MS35206-241 (96906)	
(2) FEDERAL STOCK NUMBER	1040-347-2432		1040-739-2105		5315-292-9734		5315-292-9742		1040-739-2104		Z 1040-739-2107		5305-984-6189				
(1) SMR CODE	PA FZ Z		PA FZ Z		PA FZ Z		PA FZ Z		PA FZ Z		PA FZ Z		PA FZ Z				

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

(8) (9) (19) (10) (10) (10) (10) (10) (10) (10) (10	8-1 18			B-1 19		8-1 20		8-1-21		B-1 22		8-1 23	N. A.A.	B-1 24		
(7) ALLOWANCE (A) (b) (c) (1-20 21-50 81-100				***************************************							PANAMAN AND AND AND AND AND AND AND AND AND A					
(4) (5) 80-DA UNIT QIY ALI OF INC IN (4) MEAS UNIT 1.20	ea 1			a		ea		- Ba	- Primarkova - Cont	ea		,		-		
(3) DESCRIPTION Reference Number & Mir. Code Code	WASHER, LOCK	stl, pltd, No. 8 screw size	MS35338-42 (96906)	LEVER ASSEMBLY, IGNITION SAFETY	B81-1-4928 (81361)	GRIP ASSEMBLY, IGHITION	C81-1-6201 (81361)	SCREW, EXTERNALLY RELIEVED BODY	A81-1-4947 (81361)	SPRING, HELICAL COMPRESSION	C81-1-4946 (81361)	LATCH, SHIELD	881-1-4945 (81361)	PIN ASSEMBLY IGNITION	A81-1-4942 (81361)	
(2) FEDERAL STOCK NUMBER	5310-045-3299			Z 1040-347-2421		Z 1040-347-2431		5305-639-2221		5360-347-2407		1040-739-2108		1040-739-2106		
(1) SMR CODE	PA FZ Z			PA FZ Z		PA FZ Z		PA FZ Z		PA FZ Z		PA FZ Z		PB FZ Z		

TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

(8) (9) 19; ILUS (AM PER MAINT	(c) 100 ALW PER (a) (b) (b) 51.100 EQUIP 100 FIGHE ITEM NO.			8-2 1		8-2 2		8-2 3			B-2 4		8-2 2		8-2 6		
(5) (6) (6) OTY DAY DS MA	UNIT (A) (b) (c) (CNIT 1-20 21-50 51-100												-		Prom		
(4)				еа		ea		e a	,,		ea		ea		ea		
(3) DESCRIPTION	Reference Number & Mfr. Code Usable on Code	VALVE SECTION	VALVE PARTS	BARREL, NEEDLE VALVE	881-1-4952 (81361)	ROD ASSEMBLY, VALVE	881-1-4961 (81361)	WASHER, FLAT	stl	A81-1-4985 (81361)	SPRING, HELICAL COMPRESSION	C81-1-4964 (81361)	SPRING, HELICAL COMPRESSION	881-1-4963 (81361)	RETAINER, PACKING	881-1-6949 (81361)	
(2) FEDERAL STOCK	NUMBER		N. ANGEL - 1 1	1040-347-3889		1040-347-3883		5310-596-0133			5360-347-2405		1040-347-2406		5330-045-1990		
SMR SODE	CODE			PB HZ Z		PB HZ Z		PB HZ Z			PB HZ Z		PB HZ Z	,	PB HZ Z		

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

MAINT 30-DAY GS MAINT 1-YR DE-POT 11.05TA0TION 10.0 11.05TA0TION 11.05TA0TION 10.0 11.0 1	3-2								8-2-8		8-2 9		B-2 10				
(4) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	ea 2								e a		و و		еа 1			No. 1	
(3) BESCRIPTION Reference Number & Mfr. Code	PREFORMED	mounted chevron type packing mater-	ial, polymerized tetra fluoroelhy-	lene, pressure range of 300 to 500	psi, 5/8 - 1/64 od, x 1/4 + 1/64 id	x .150 stack ht, chevron angle 120	degrees	410 (71724)	BEARING, SLEEVE	881-1-4962 (81361)	WASHER, FLAT	A81-1-4981 (81361)	BODY, INLET	C81-1-4948 (81361)			
(2) FEDERAL STOCK NUMBER	5730-973-1207								3120-662-0701		5310-292-9876		1040-347-2433		*		
***************************************	7 5								7		7		7				

TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

(b) (f) (10) 1.VR DL.OT ILLUSTRATION ALW PER MARINT 1.00 (N) (b) (c) (c) (c) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	11074				8-2 12			B-2 13				۳ ۳			B - 3	
(1) 30-DAY GS MAINT ALLOWANGE (4) (b) (c) 11-20 21-30 \$1-100					PROVINCE AND A PROVIN							4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	***		AND	
(5) 30-DAY DS MAINT QTY ALLOWANCE DC IN (a) (b) (c) (c) UNIT 1-20 21-50 51-106		A Processor a service of	77 VA ANGELSIA A.					11.00					000 A Dec 1 de 1			
(4) (5) UMIT QTY OF INC MEAS UNI	ea 1		·······	·	ea J			ea -		TTO THE COURT AND A SECOND AS					ea 1	
(3) DESCRIPTION Reference Number & Mfr. Code	INE	stl, pltd, pan hd, 1/4-28, 0.500 in.	اَمْ	MS 35207-279 (96906)	RETRACTOR, VALVE	A81-1-4958 (81361)	POST, ELECTRICAL-MECHANICAL EQUIP-		No. 12-28	A81-1-4959 (81361)	VALVE GRIP PARTS	SCREW, MACHINE	stl, fillister hd, 8-32, 5/8 in. lg	MS35265-46 (96906)	GRIP, VALVE COVER	D81-1-4966 (81361)
(2) FEDERAL STOCK NUMBER	5305-993-2463				1040-347-2420		5340-596-5923					5305-622-9476			1040-347-2412	
	7				PA FZ Z		7					Z			PA FZ Z	

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

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UNIT QIY OF INC IN	ea 1		ea]										J			
(3) DESCRIPTION Reference Number & Mr., Code Valide on Code	LEVER ASSEMBLY VALVE	881-1-4973 (81361)	PIN, STRAIGHT, HEADLESS	A81-1-4969 (81361)	LINK, VALVE ea	B81-1-4968 (81361)	GRIP ASSEMBLY, VALVE	C81-1-6202 (81361)	PIN, SHOULDER, HEADLESS	A81-1-4974 (81361)	LEVER, VALVE ASSEMBLY	C81-1-4979 (81361)	BOLT, MACHINE ea	21]	B81-1-4978 (81361)	
(1) (2) SMR FEDERAL CODE STOCK NUMBER	FZ Z 1040-347-2419		FZ Z 5315-292-9739	Acceptance of the second of th	FZ Z 1040-347-2415		FZ Z 1040-347-2414		FZ Z 5315-292-9745		FZ Z 1040-347-2417		FZ Z 5306-639-0460			
	C PA		СРА		СРА		СРА		СРА	• • • • • • • • • • • • • • • • • • • •	C PA		C PA			B-15

TM 3-1040-204-14 Section VI. PEPAIR PARTS LIST - Continued

(16) IILUSTRATION (a) (b) FIGURE ITEM NO. NO.	B-3			FF 160 V PERMANENT AND	8-3		8-3 12		B-3 13	7800.00				8-4	THE RESIDENCE OF THE PARTY OF T		
(9) DEPOT MAINT ALW PER 100 EQUIP														777			
(8) 1.YR ALW PER 106 EQUIP CNTGCY								or or decision							*******************************	No. W. Walland and American	
S MAINT ANGE (c) 50 51-100			····														
(7) ALLOWANCE (a) (b) (c) 1.20 21-50 \$1.100									IVERTON DE PRESSURATE.								
											A DESCRIPTION OF THE ANA		-				
(6) 30-DAY DS MAINT ALLOWANGE (a) (b) (c) 1-26 21-50 51-10	***************************************																
(5) 30-D QTY AL INC IN (3) UNIT 1-20											 				<u>.</u>	. 	
(4) UNIT OF IN MEAS U	ea 1		••••	••••	ea 1		ea]		ea 3			***************************************		ea			
(3) DESCRIPTION Reference Number & Mir. Code Usablic on Code	SETSCREW	stl, pltd, socket drive, No. 6-40,	0.187 in. 1g	MS51966~26 (96906)	SPRING, HELICAL COMPRESSION	C81-1-4980 (81361)	LINK ASSEMBLY, VALVE SAFETY	A81-1-4977 (81361)	SCREW, MACHINE	stl, pltd, fillister hd, No. 10-24,	5/8 in. 1g	MS 35265-64 (96906)	GROUP 200 - HOSE GROUP	HOSE, FUEL, FLAME THROWER	C81-1-7001 (81361)		
(2) FEDERAL STOCK NUMBER	5305-724-7275				1040-347-2410		1040-347-2416		5305-614-0245								
(1) SMR CODE	PA FZ Z				PA FZ Z		PA FZ Z		PA FZ Z					AF FZ Z			

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

	SMR CODE	(2) FEDERAL STOCK NUMBER	. (3) DESCRIPTION	(4) UNIT OF OF	(5) OTY INC IN		Z 2/			(8) 1-YR ALW PER 100 ECMIED	(9) DEPOT MAINT ALW PE	(1) ILLUST	ATION (E)
			Reference Number & Mfr. Code Usable on Code			1-20	21-50 51-100	1-20	21-50 51-100		100 EQUIP	FIGURE NO.	ITEM NO.
ب	PA FZ	PA FZ Z 4720-839-3423	HOSE ASSEMBLY, NONMETALLIC	မွေ	_	The state of the s						8-4	
			B81-1-6930 (81361)					w					
ပ	PA FZ	PA FZ Z 4730-541-7288	COUPLING HALF, QUICK-DISCONNECT	ea	<u></u>				,			8-4 2	
***************************************			B81-1-2856 (81361)										
		W P 18/48/	GROUP 300 - TANK GROUP							•			
ن	AF FZ	Z	TANK ASSEMBLY, FUEL, PORTABLE,										
		THE STANLE	FLAME THROWER, M2A1-7	еа	-		· · · · · · · · · · · · · · · · · · ·					B-5	
			E81-1-482 (81361)									9-8	
							- 1			**************************************		B-7	
					•							B-8	
	PB OH	Z 1040-784-9218	PLUG ASSEMBLY, FILLING	ea	~							B-5 1	
		Alla A	D81-1-4883 (81361)							***************************************		****	
	PA 0Z	Z 5330-265-1092	PACKING, PREFORMED	ea	Ο.			***************************************	**************************************			8-5 2	
			synthetic rubber, cross-sectional			<u></u>				***************************************			
			dim. 0.145 in. max, cross-sectional										
В-			H, 1.302 in. max. center hole dia.								,		
			MS29513-219 (96906)										

TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

NO -	¥ .														
(10) ILLUSTRATION (a) (b)	NO. NO.	മ		ان ح			WATER ON ENGINEERS WINDOW				ت ت		- 2	1 PM 1882 PM 4564 d Conference (1881)	
	EN EN	5	ACTION AND AND AND AND AND AND AND AND AND AN	ත ව		B-5					8-5		B-5		
(9) DE-POT ER MAINT ALW PER	Y EQUIP				<u> </u>	·				····					
(8) 1YR ALW PER		Heren well as an about													
(7) 30-DAY GS MA(NT ALLOWANGE (8) (9) (C)	51.100		rumar ramona varios	ova Arannovari sassenti ar											er era erra nea.
(7) NAY GS NLLOWA	21.50	verezen energia.	***************************************											VENEZA PARA PER VARIANTEMBER DE ARANGEMENTA ARANGEMENT	24.000000 . 1 . b. b. b. b.
						CONTRACTOR LANGE AND ADDRESS OF THE PARTY OF									
MAINT NGE - (G)	0 51.100									PHILIPPE A					
(6) 30-DAY DS MAINT ALLOWANCE (a) (b) (c)	5 21 50	·F	t discharge die der der der der der der der der der de	· · · · · · · · · · · · · · · · · · ·				<u> </u>			*****			**************************************	PARTITION TO A STATE OF THE STA
e e	T 1-20					 	······································	T	. 						
(5) T QIY INC IN	IS UNI	~		- Ference - Control of	W.O	<u></u>									
(4) UNIT		ea		ea		ea					ea		ea		ensone e reno
(3) DESCRIPTION	Reference Number & Mfr. Code Usable on Code	TANK, FUEL	E81-1-483 (81361)	COUPLING ASSEMBLY, QUICK-DISCONNECT	D81-1-4581 (81361)	GASKET	synthetic rubber, 1-1/16 in. dia of	aperture, 1-9/16 in. od, 7/32 in.	thk	A81-1-4573 (81361)	PLUG, QUICK-DISCONNECT	881-1-514 (81361)	HINGE, OUTER	C81-1-1573 (81361)	
(2) FEDERAL STOCK	NUMBER	1040-160-8068		4730-377-9421		5330-202-4249					Z 4730-160-8062		1040-160-8014		
(1) SMR CODE	THE RESERVE THE PERSON NAMED IN PARTY OF THE	PB FH Z		PB HH Z	···· -	PB 0Z Z					PB 0Z Z		PB FZ Z		

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

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DEPOT 11LUSTRATION	ALW PER (a) (b) 100 FIGURE ITEM EQUIP NO. NO.	B-5 8	.,			8-6		8-6 2		B-6 3			B-6 4		3-6 5	744844		
(8) 1 - Y R	correct	T S OF LOT OF LAND AND LOT OF								And the second of the second o						**************************************	**************************************	
30-DAY GS MAINT	(a) (b) 1-20 21-50																No. of Adapting and Adapting an	
(6) 30-DAY DS MAINT	(a) (b) (c) (1) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	· · · · · · · · · · · · · · · · · · ·	availt or all lines of	COLORO DE LA COLORO DEL LA COLORO DE LA COLO	-			-					-Allas World		genny y sayangan sakebuda		ANYONI MININA JAN-ARAMA	
	NC INC INC IN					, <u>, , , , , , , , , , , , , , , , , , </u>	·	<u> </u>	•									
Ŧ	OF OF MEAS	ea.		-		ea		ea		ea			e G		ea	· · · · · · · · · · · · · · · · · · ·		
(3)	Reference Number & Mfr. Code Usable on Code	RIVET, SOLID	universal hd, stl, 3/16 in. nom dia,	11/18 in. nom 1g	MS20613-6P18 (96906)	TUBE, REGULATOR AND SOCKET	B81-1-1795 (81361)	COUPLING HALF, QUICK-DISCONNECT	3000-63 (73992)	NUT, PLAIN, WING,	1/4-20 UNC-2B	A81-1-877 (81361)	TANK AND VALVE PRESSURE	881-1-879 (81361)	SHAFT ASSEMBLY, VALVE	(81-1-883 (81361)		
(2) FEDERAL	STOCK NUMBER	5320-068-6929				1040-568-9676		4730-529-2366		5310-209-2652			1040-293-5891		1040-160-8027			
5	CODE	PB FZ Z				PB FZ Z		PB HH Z		PB 0Z Z			РВ ОН Н		PB FF Z		- Additional Control of the Control	

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

(9) (10) (10) (10) (10) (10) (10) (10) (10	9-8		8-6 7		8-68		B-6 9		8-7 1		8-7 2					
30-DAY GS MAINT 1.YR ALLOWANGE ALLOWANGE 100 100 1.20 2.1-50 51-100 C.NTGGY 1.20 2.1-50 2.0UIP		A 17 17 17 17 17 17 17 17 17 17 17 17 17														
(6) 36-DAY DS MAINT ALLOWANGE IN (4) (5) (c) I 1-20 21-56 51-100								THE STATE OF THE S								V NY (NI)
(4) (5) UNIT QTY OF INC IN	<u>—</u>				<u></u>				r							
	ea		e a		ea		e a		e B		ea	047				
(3) DESCRIPTION Reference Number & Mir. Code Usablic on Code	COUPLING HALF, QUICK-DISCONNE	B81-1-885 (81361)	VALVE, PRESSURE TANK	881-1-439 (81361)	VALVE ASSEMBLY, CHECK	B81-1-2146 (81361)	TANK, PRESSURE	(81-1-375 (81361)	HEAD, SAFETY	E81-1-561 (81361)	WASHER, FLAT	aluminum alloy, peripheral dim, 1.047	in, max od, center hole dia, 0.672	in max, 0.063 in. nom thk	A81-1-2704 (81361)	
(2) PEDERAL STOCK NUMBER	4730-160-8025		PB HZ Z 1040-160-8083		PB FZ Z 1040-160-8011				PB FZ Z 1040-752-7955		PB FZ Z 5310-292-1501					
(1) SMR CODE	Z ZH 8d		B HZ Z		B FZ Z		XA HH Z		B FZ Z	,	B FZ Z					

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

(8) (10) 1-YR DEPOT (1110STRATION ALW PER (2)) 100 ALW PER (3) (4) EQUIP (10)	B-7		B-7 4		8-7 5		8-7 6		W. W	8-7 7		8-7 8		8-7 9		
30.DAY GS MAINT ALLOWANCE (a) (b) (c)				THE STATE OF THE S	TO 1 BLOOM					1040-300-0014		1040-300-0014		1040-300-0014	74 Valley 74 - 12 - 1	
(5) (6) (6) OTY 39-DAY DS N OTY ALLOWANG INC IN (A) (b) UNIT US 1.50							2			l See Kit 10		1 See Kit 10		l See Kit 10		
(4) UNIT OF	Usable on Code		6		ө		eg G	- Andrews		G B	marayan kasisista da	ea		ө	B00043	
(3) DESCRIPTION	VALVE SAFETY	(81-1-1796 (81361)	REGULATOR, PRESSURE	(81-1-778 (81361)	VALVE, NEEDLE	20517 (26505)	VALVE, NEEDLE	(5 per can)	20519 (26505)	GROMMET, FLANGE	024-00101 (26205)	DIAPHRAGM	090-05006 (26205)	PLATE, DIAPHRAGM	51968 (26505)	
(2) FEDERAL STOCK NUMBER	1040-160-8018		FH H 1040-160-8050		1040-160-8036		4820-647-1870									
(1) SMR CODE	PB FZ Z		PB FF #		PB HZ Z		PB HZ Z			KF HZ Z		KF HZ Z		KF HZ Z		
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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

0) RATION (b) ITEM NO,	10					2				33		74		ភ			***************************************
(10) IILUSTRATION (2) (b) FIGURE ITEM NO, NO,	B-7 1		8-7			B-7 1			***************************************	B-7	~~~~~~~~~~	B-7		B-7 1			
(9) DEPOT MAINT AIW PER 100 EQUIP	<u> </u>		bainal					***************************************	.	<u> </u>		ш	nere.aa	ш_			
(8) 1. YR D AIW PER N 160 A EQUIP CONTOCY B	THE PERSON AND PROPERTY AND PRO	anner i Province del II Secoles II del	×					,	· · · · · · · · · · · · · · · · · · ·			TAIR CONTRACTOR	······				
FN 5 7	1014										TOWNS MANAGES AND A			7	ANAMORY ALLOW		
(7) 30-DAY GS MAI ALLOWANGE (a) (b) (1.20 21-50 53	300-0	ETT TO THE PARTY OF THE PARTY O					vraen			*	····			529-1			
	1040-300-001											THE STREET STREET, STR		1040-829-1	· · · · · · · · · · · · · · · · · · ·		
(6) ALLOWANCE (a) (b) (c) 1-26 21-50 51-10	Kit 1			P-900-00-01-0-1-0-0-0-0-0-0-0-0-0-0-0-0-0				TRANSPORTED HISTORY	<u>-</u>			·····		Λ; -1:			
30-DAY ALLO (a) 1-20 2	See k				***************************************			* * * * * * * * * * * * * * * * * * *				V 40-841 III 14-44.A		See			White the street
(5) QTV NC IN UNIT						ω											
(4) UNIT OF MEAS	ea		ea			ea				ea		ea		ea			
(3) DESCRIPTION Reference Number & Mfr. Code Ugable on Code	SPRING, HELICAL COMPRESSION	20908 (26205)	NIPPLE, PIPE	stl, cres, 1/4-18 NPT. 1-4 x 7-8	type 316 (88216)	SCREW, MACHINE	fillister hd, slot drive, stl, pltd,	1/4-20 UNC, 1.500 in. 1g	MS35265-85 (96906)	ADAPTER, STPAIGHT, PIPE TO TUBE	24960 (26505)	PIN, SHOULDER, HEADLESS	261101 (26505)	GASKET	fiber bituminized	72525 (26505)	
(2) FEDERAL STOCK NUMBER			Z 4730-826-0093	-		5305-866-0439			-	Z 4730-639-9347		5315-160-8042					
(1) SMR CODE	KF HZ Z		PB HZ 2		WW49844-1-22/844-4-2-2	Z ZH 8d				PB HZ 2		Z ZH 8d		KF HZ Z			

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

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(10) HLUSTRATION (3) (b) FIGHE ITEM NO, NO,	8-7 16	AAM-LA.	B-7 17		8-7 18		B-7 19		B-7 20		B-7 21			B-8			
(8) (9) 1.YR DEFOT AW PER MAINT 100 ALW PER EQUIP (100				10-10-10-10-10-10-10-10-10-10-10-10-10-1			lacerd .					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Therefore declared		W.M.		
(4) (5) (7) (1) (1) (1) (1) (1) (2) (3) (4) (4) (5) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	-1771		THE SECOND SECOND	///		N T			-1771						~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	1966A = 1	
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(6) (9) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	See Kit			7					See Kit			·····		The second			
S VI DNI VI DNI VI DNI									_	,			V 700 700 700 700 700 700 700 700 700 70	2		~~~~	
(+) CMT OF MEAS	ea		ea		ea		ea		ea		ea	***************************************		ea			
(3) DESCRIPTION Reference Number 8 Mfr. Code Casals, on Code	SEAT ASSEMBLY, VALVE	234616 (26505)	STRAINER	104-00022 (93465)	VALVE	N743PC12 (26505)	SPPING, HELICAL COMPRESSION	22128 (26505)	PACKING, PREFORMED	MS28775-213 (96906)	PLUG, MACHINE THREAD	51438 (26505)	CARRIER SECTION	STRAP ASSEMBLY, UPPER	B81-1-520 (81361)		ACE.
(2) FEDERAL STOCK NUMBER			HZ Z 4730-972-7670		Z 4820-611-6803		PB HZ Z 5360-205-4458				5365-984-8861			PA 0Z Z 1040-205-0358			
(1) SMR CODE	KF HZ Z		PB HZ Z		Z ZH 8d		Z ZH 8d		KF HZ Z		XB HZ Z			PA 0Z Z			

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF	(5) QTY INC IN	(6) AY DS M LOWANC (h)	30-DAY GS N ALLOWAN (a) (b)	(8) 1-YR ALW PER 100 FOTTE	DEFOT ILLUSTRAMAINT ALW PER (a)	(10) ILLUSTRATION (a) (b)
PA 07 7	7 1040-696-1374	Reference Number & Mfr. Code Usable on Code PACK CARRIER		-	1-20 21-30 21-130	001-15 02-17 02-1	CNTGCY	EQUIP NO.	ON A
					- TO-TH-111366/MANAP-L)	
PB FZ Z	Z 5315-842-3044	PIN, COTTER	ea	2		· ·		<u>8</u> -8	
		stl, pltd, 3/32 in. nom dia, 3/4-in				Will Life.			
		nom 1g							
		MS24665-283 (96906)						···	
PB FZ Z	Z 5315-663-1478	PIN, STRAIGHT, HEADED	ea	2	-	-		8-8	st
		stl, rd hd, 1/4-in. dia of shank, 7/8						, <u>.</u>	
		in, 1g under hd, drilled shank							
		A81-1-518 (81361)					***************************************	. ,	
PB FZ Z	5305-068-0501	SCREW, CAP, HEXAGON HEAD	ea	4			TOTAL A TO	8-8 8-8	<u></u>
		stl, pltd, 1/4-20 UNC-2A, 0.625 lg			**************************************	WAAA AAAA AAAA AAAAA AAAAA AAAAA AAAAA AAAA			······································
		MS90725-5 (96906)						7 18 18 18 Al Alich A	
PA FZ Z	5310-582-5965	WASHER, LOCK	ea	5		· ·		8-8	<u> </u>
		stl, pltd, split helical, hole dia		THE PERSON OF AUTO-				· • • • • • • • • • • • • • • • • • • •	,
		0.255 in., 0.489 in. id, 0.062 in. thk	<u>-¥</u>					···	
		AN935416 (88044)				- Marilla I - co - control			

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

(10)	FIGURE ITEM NO. NO.	8 7		THE PARTY IN THE P	_ & &		 		8 10	THE POST OF THE PO			***************************************		 	
(9) DE POT	MAINT LW PER 100 EQUIP	8-8 -8		·	φ <u>-</u> 		& <u>-</u> 8		8 - 8			,,				
(8) 1 -YR	ALW PER 1 100 A EQUIP CNTGCY									_		* • • • • ,-				· · · · · · · · · · · · · · · · · · ·
(7) 30-DAY GS MAINT		A LANGUAGE A LANGUAGE FARMA		,					*					-	TO THE RESERVE OF THE PARTY.	
i i	(b) (c) 21-50 51-100	The Allies						* 4						TARRATTI V. ANDRA A. A.		A STATE OF THE STA
	QTY AI INC IN (a) UNIT 1-20		:_		·····				- 2						· · · · · · · · · · · · · · · · · · ·	
	UNIT Q OF IN	ea 5			ea		ea 2		ft 12			**************************************			 *******************************	
(6)	DESCRIPTION Reference Number & Mfr. Code Usable on Code	NUT, PLAIN, HEXAGON	stl, pltd, 1/4-20 UNC-2B	MS51967-2 (96906)	STRAP ASSEMBLY	881-1-519 (81361)	STRAP ASSEMBLY, LOWER	881-1-520 (81361)	CORD, NYLON	9 carriers per braid, lyarn per	carrier, single yarn, olive drab,	1/8 in. nom dia, 400 lb breaking	strenath	MIL-C-4330-7 (81349)		
(5)	FEDERAL STOCK NUMBER	FZ Z 5310-761-6882			PA 0Z Z 1040-205-0360	•	PA 0Z Z 1040-205-0361		PB 0Z Z 4020-993 -3583							
(1)	SMR	PB FZ Z		····	PA 0Z Z		PA 0Z Z		PB 0Z Z							

TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

N -N -			···														
(10) IELUSTRATION (2) (3) FIGURE ITEM NO. NO.	8		#IV-2			8 12			-8 13	, , maure	8 14	100000			***************************************		
	ထု					8-8			8	·	B :8						
(9) DEPOT R MAINT ALW PER 100	~ ·																F18387011.
(8) 1.YR ALW PER 100 EQUIP																	
(2)	**************								•								
30. DAY GS MAINT ALLOWANGE (a) (b) (c) 1-20 21-50 51-10											,-						
30.02 AU (a) 1-20		**************************************								•						77 7 15 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
AIV.:							THE PARTY OF THE P										
50 ALLOWANCE ALLOWANCE (a) (b) (c) 1-20 21-50 51 (c)								<u> </u>									
30-DA ALI (a)										THE WAY							
CATY BNC IN								, , , , , , , , , ,	_								
(4) UNIT OF MEAS	ea		W. 41.744.111.111.7.111.1.1.1			ea			ea		ea		•				
(3) DESCRIPTION Reference Number & Mfr. Code Usabluma Code	CLAMP, LOOP	stl pltd, 1/2 in. w o/a 0.0598 in.	thk, 1-1/16 in. loop id, 9/32 in.	dia of hole (5 per bundle)	A81-1-487 (81361)	SCREW, CAP, HEXAGON HEAD	stl, pltd, 1/4-20 UNC-2A, 3/4 in. 1g	MS90725-6 (96906)	FRAME, CARRIER	D81-1-504 (81361)	STRAP ASSEMBLY, SHORT	881-1-519 (81361)					
FEDERAL STOCK NUMBER	5340-160-8065					5305-068-0502			1040-160-8063		1040-205-0359						
(1) SMR CODE	PB FZ Z					PB FZ Z			PB FH H		PA 0Z Z					•	

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TM 3-1040-204-14 Section VI. REPAIR PARTS LIST - Continued

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OT ILLUSTRATION VIT (b) FER (a) (b)	, Ç			-	LIX		B-7 7	3-7 8	8-7 9	B-7 10	LIX			B-7 15	8-7 16	B-7 20
(8) (9) 1. YR DEPOT ALW PER MAINT 100 ALW PER 2 COULD 100	CNTOCY EQUIP			, .												
(7) AY GS MAINT LLOWANCE (b) (c)	20110				•								THE STATE OF THE S	to should receive an within	ortho Personal Production	
(6) AY DS MAINT LOWANCE (b) (c)	001-14 00-17 07-1			PTOTON THE STATE OF THE STATE O								V	· · · · · · · · · · · · · · · · · · ·	***************************************	Pode a solvenia a si a seco	
(S) VT9 INC IN					,							· · · · · · · · · · · · · · · · · · ·	THE RESERVE THE PARTY OF THE PA	F PROSERVE OF PROPERTY AS A SEC	**************************************	ALEXCORPORA ELOCOPORA (LOCARDA), A LOCARDA
(4) UNIT OF MEAS		ea			ea						ea	***************************************			AND	
(3) DESCRIPTION	Reference Number & Mfr. Code Usable on Code GROUP 400 - ACCESSORIES	CHEST PACKING	E116-3-42 (81361)	GROUP 500 - REPAIR KIT GROUP	REPAIR KIT, PRESSURE CONTROL	R81-1-4904 (81361)	l ea - GROMMET, FLANGE	l ea - DIAPHRAGN	1 ea - PLATE DIAPHRAGM	1 ea - SPRING, HELICAL COMPRESSION	PARTS KIT, PRESSURE REGULATOR,	FLAME THROWER	NOREF (33333)	2 ea - GASKET, fiber bituminized	l ea - SEAT, ASSEMBLY VALVE	l ea - PACKING, PREFORMED
(2) FEDERAL STOCK NUMBER					1040-300-0014						PB HZ Z 1040-829-1771					
SMR CODE		XB FZ Z			PB HZ Z						PB HZ Z					

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SectionVIII.INDEX - :	FEDERAL STOC	CK NUMBER ANI	REFERENCE	NUMBER
CROSS-R	EFERENCE TO	FIGURE AND	TEM NUMBER	

	Stock Number	Figure No.	Item No.	Stock Number	Figure No.	Item No.	
1	5310-761-6882	B-8	7.	5360-347-2408	B-1	7	
	5315-160-8042	B-7	14	5360-347-2409	B-1	8	
	5315-292-9734	B-1	13	5365-984-8861	B-7	21	
	5315-292-9739	B-3	4	5730-973-1207	B-2	7	
	5315-292-9742	B-1	14				
	5315-292-9745	B-3	7				
	5315-663-1478	B-8	4				
	5315-842-3044	B-8	3				
	5320-068-6929	B-5	8				
	5330-045-1990	B-2	6				
	5330-202-4249	B-5	5				
	5330-265-1092	B - 5	2				
	5340-160-8065	B-8	11				
	5340-160-8078	B-1	6				
	5340-205-4458	B-7	19				
	5340-596-5923	B-2	13				
	5360-347-2405	B-2	4				
	5360-347-2406	B-2	5				
	5360-347-2407	B-1	22				

APPENDIX C

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

C-1. General

The maintenance allocation chart (sec. II) lists the authorized maintenance functions assigned the maintenance categories for maintenance of the M2A1-7 portable flamethrower. This chart is to be used by all levels of maintenance to insure complete support of the equipment.

C-2. Maintenance Functions

Maintenance functions authorized are limited to and defined as follows:

- a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical and/or electrical characteristics with established standards through examination.
- b. Test. To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- c. Servicing. Operations required periodically to keep an item in proper operating conditions, i.e., to clean, preserve, drain, paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.
- d. Adjust. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.
- e. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.
- f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

- g. Install. The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- h. Replace. The act of substituting a serviceable like-type part, subassembly, module (component or assembly) in a manner to allow the proper functioning of an equipment system.
- i. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module/component/assembly, end item or system.
- j. Overhaul. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (e.g., DMWR) in pertinent technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like-new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipment/components.
- l. Symbols. The uppercase letter placed in the appropriate column indicates the lowest level at which that particular maintenance function is to be performed.

C-3. Explanation of Format

Purpose and use of the format are as follows:

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- a. Column 1, Group Number. Column 1 lists group numbers, the purpose of which is to match components, assemblies, subassemblies, and modules with the next higher assembly.
- b. Column 2, Functional Group. Column 2 lists the next higher assembly group and the item names of components, assemblies, subassemblies, and modules within the group for which maintenance is authorized.
- c. Column 3, Maintenance Function. Column 3 lists the eleven maintenance functions defined in C-2 above. Each maintenance function required for an item shall be specified by the symbol among those listed in d below which indicates the level responsible for the required maintenance. Under this symbol, there shall be listed an appropriate work measurement time value as indicated in e below.
- d. Use of Symbols. The following symbols are used to prescribe work function responsibility:

Syn	$\imath bol$	Explanati	on
C		Operation/crew	maintenance
0		Organizational n	naintenance

Symbol	Explanation
F	Direct support maintenance
Η	General support manitenance
D	Depot maintenance

- e. Work Measurement Time. The active repair time required to perform the maintenance function is included directly below the symbol identifying the category of maintenance. Active repair time is the average aggregate time required to restore an item (subassembly, assembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, fault isolation/diagnostic time, and QA/QC time in addition to the time required to perform specific maintenance functions identified for the tasks authorized in the maintenance allocation chart. This time is expressed in man-hours and carried to one decimal place (tenths of hours).
- f. Column 4, Tools and Equipment. Column 4 lists those peculiar tools and test, measuring, diagnostic, and support equipment used in performing the authorized maintenance functions.
 - g. Column 5, Remarks. Self-explanatory.

MAINTENANCE ALLOCATION CHART

FO.

FLAMETHROWER, PORTABLE, M2A1-7

MARTENANCE TO THE OLD	(4) (5)	TOOLS AND REMARKS						· • • • • • • • • • • • • • • • • • • •			***							
Planethrower, MT C H O C H O O O O O O O O O		TOO		······				······································			-A							
FUNCTIONAL GROUP *NOMENCLATURE *NOMENCLATUR		REBUILD																
Flamethrower, M7 Plamethrower, M7 Plamethrower		OVERHAUL					······································											
FUNCTIONAL GROUP COMPONENT ASSEMBLY NOMENCLATURE NOMENCLATURE NOMENCLATURE Flamethrower, M7 C H C H C H C H C H C H C H C	z	нерлік	F4 (0.7		Ħ	207	3									Ħ,	1.0
FUNCTIONAL GROUP COMPONENT ASSEMBLY NOMENCLATURE NOMENCLATURE NOMENCLATURE Flamethrower, M7 C H C H C H C H C H C H C H C	СПО	REPLACE	ᄄ	0.2 F	0.2 F	T:0	$^{0.7}_{0.7}$	 	ф. Д.	5 5 7	P. P. S	7. Fr. 5	T 15 (F. (6.1	면 년	0.4 F F (.; O
FUNCTIONAL GROUP OMPENCIATURE NOMENCIATURE Y. Flamethrower, M7 Y. Fuel	FUN	INSTALL														-		
FUNCTIONAL GROUP OMPENCIATURE NOMENCIATURE Y. Flamethrower, M7 Y. Fuel	(3) ANCE	CALIBRATE																
FUNCTIONAL GROUP COMPONENT ASSEMBLY NOMENCLATURE NOMENCLATURE NOMENCLATURE Flamethrower, M7 C H C H C H C H C H C H C H C	TEN,	ALIGN																
FUNCTIONAL GROUP COMPONENT ASSEMBLY NOMENCLATURE NOMENCLATURE Flamethrower, M7 C H F C H H C H F C H H C H F C H H C H C	MAID	TSULGA	E+ (5 2													<u>Γτ.</u> ,	ი. ლ.
(a) FUNCTIONAL GROUP COMPONENT ASSEMBLY NOMENCLATURE NOMENCLATURE (C) H (C) H (C) H (D) (C) (D) (C) (D) (D) (D) (D)		SEKAICE	<u> </u>			0	0.5											
FUNCTYONAL GROUP FUNCTYONAL GROUP FED		TEST	ш;	U.5 H	0.2					0 (Ņ							
FUNCTIONAL GROUP COMPONENT ASSEMBLY NOMENCLATURE Flamethrower, M7 y, Fuel y, Fulling or and Socket Quick-Disconnect re Pressure y, Valve y, Valve y, Valve y, Check issure		INSPECT	ر د				0.1						. o ;	. o ;		0.1	0.1	0
	(2)	FUNCTIONAL GROUP COMPONENT ASSEMBLY NOMENCLATURE	V GROUP in, Portable, Flamethrower, M7	SE GROUP lose, Fuel	oupling Half, Quick-Disconnect	NK GROUP ank Assembly, Fuel	lug Assembly, Filling	lube, Regulator and Socket	Coupling Half, Quick-Disconnect	Tank and Valve Pressure	Shaft Assembly, Valve	Coupling Half, Quick-Disconnect	Valve, Pressure Tank	/alve Assembly, Check	lead, Safety	alve, Safety	egulator, Pressure	trap Assemblies

(2)				MAD	MAINTENANCE FUNCTION	ANCE	FUNC	TION			(+)	(6)
FUNCTIONAL GROUP COMPONENT ASSEMBLY NOMENCLATURE	INSPECT	TEST	SEBAICE	TSUIGA	VFIGN	CALIBRATE	INSTALL	REPLACE	яімчая	OVERHAUL	TOOLS AND EQUIPMENT	 REMARKS
	0		0					0				
	0.1		0.0					0.2 F	н			
	0.1							0.3	0.5			

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Section V				CK NUMBER AND FIGURE AND IT			ER
Reference	Mfg <u>Code</u>	Fig No.	Item No.	Reference	Mfg <u>Code</u>	. •••	Item
AN935416	88044	B-8	6	B81-1-1795	81361	B-6	1
A81-1-2704	81361	B-7	2	B81-1-2146	81361	B-6	8.
A81-1-4573	81361	B - 5	5	B81-1-2856	81361	B -4	2
A81-1-460	81361	B-1	6	B81-1-439	81361	B-6	7
A81-1-487	81361	B-8	11	B81-1-444	81361	B-1	2
A81-1-4932	81361	B-1	13	B81-1-4927	81361	B-1	1,6
A81-1-4939	81361	B-1	14	B81-1-4928	81361	B-1	19
A81-1-4942	81361	B -1	24	B81-1-4938	81361	B-1	15
A81-1-4947	81361	B-1	21	B81-1-4945	81361	B-1	23
A81-1-4958	81361	B-2	12	B81-1-4952	81361	B-2	ì
A81-1-4959	81361	B-2	13	B81-1-4961	81361	B-2	2
A81-1-4969	81361	B-3	4	B81-1-4962	81361	B-2	8
A81-1-4974	81361	B-3	7	B81-1-4963	81361	B-2	5
A81-1-4977	81361	B-3	12	B81-1-4968	81361	B-3	5
A81-1-4981	81361	B-2	9	B81-1-4973	81361	B-3	3
A81-1-4984	81361	B-1	9	B81-1-4978	81361	B-3	9
A81-1-4985	81361	B-2	3	B81-1-514	81361	B-5	6
A81-1-518	81361	B-8	4	B81-1-519	81361	B-8	8
A81-1-519	81361	B-8	14	B81-1-520	81361	B-8	1
A81-1-877	81361	B-6	3	B81-1-520	81361	B-8	9

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Section V				CK NUMBER AND I			R
Reference	Mfg <u>Code</u>	Fig No.		Reference	Mfg <u>Code</u>	Fig <u>No.</u>	Item No.
B81-1-6930	81361	B-4	1	C81-1-873	81361	B-8	2
B81-1-6949	81361	B-2	6	C81-1-883	81361	B-6	5
B81-1-879	81361	B-6	4	D81-1-4581	81361	B-5	4
B81-1-885	81361	B-6	6	D81-1-4883	81361	B-5	7
C81-1-1573	81361	B - 5	7	D81-1-4920	81361	B-1	
C81-1-1796	81361	B-7	3			B-2	
C81-1-375	81361	B-6	9			B-3	
C81-1-4921	81361	B-1	7	D81-1-4922	81361	B-1	5
C81-1-4931	81361	B-1	12	D81-1-4924	81361	B-1	
C81-1-4943	81361	B-1	8	D81-1-4966	8136 1	B-3	2
C81-1-4944	81361	B -1	7	D81-1-504	81361	B-8	13
C81-1-4946	81361	B-1	22	E116-3-42	81361		
C81-1-4948	81361	B-2	10	E81-1-482	8136 1	B - 5	
C81-1-4964	81361	B-2	4			B-6	
C81-1-4979	81361	B-3	8			B-7	
C81-1-4980	81361	B-3	17			B-8	
C81-1-6201	81361	B-1	20	E81-1-483	81361	B-5	3
C81-1-6202	81361	B-3	6	E81-1-561	81361	B-7	1
C81-1-7001	81361	B-4		MIL-C-43307	81349	B-8	10
C81-1-778	81361	B-7	4	MS20613-6P18	96906	B-5	8

TM 3-1040-204-14

4S24665-283		No.	Item No.	Reference No.	Mfg <u>Code</u>	Fig <u>No.</u>	Item No.
	96906	B-8	3	090-02006	26205	B-7	8
1S28775-213	96906	B-7	20	104-00022	93465	B-7	17
MS29513-219	96906	B-5	2	1/4 x 7/8			
1\$35206-241	96906	B-1	3	type 316		B-7]]
		B-1	1 7	20517 20519	26505 26505	B -7 B-7	5 6
NS35207-279	96906	B-2	11	20908	26205	B-7	10
MS35265-46	96906	B-3	1	22128	26505	B-7	19
MS35265 -64	96906	B-1	10	234616	26505	B -7	16
				24960	26505	B-7	13
MS35265-85	96906	B-7	12				
MS35338-42	96906	B -1	4	26110	26505	B-7	14
		B-1	18	3000-63	73992	B-6	2
MS51966-26	96906	B - 3	10	410	71724	B-2	7
MS51967-2	96906	B - 8	7	51438	26505	B-7	21
MS90725-5	96906	B-8	5	51968	26505	B-7	9
MS90725-6	96906	B-8	12	72525	26505	B-7	15
NOREF	33333	KIT					
N743PC12	26505	B-7	18				
R81-1-4904	81361	KIT					

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Stock Number	Figure No.	Item No.	Stock Number	Figure No.	Item $No.$
1040-160-8011	B-6	8	1040-347-2412	B-3	2
1040-160-8014	B - 5	7	1040-347-2414	B-3	6
1040-160-8018	B-7	3	1040-347-2415	B-3	5
1040-160-8027	B-6	5	1040-347-2416	B-3	12
			1040-347-2417	B-3	8
1040-160-8036	B-7	5	1040-347-2419	B-3	3
1040-160-8050	B-7	4	1040-347-2420	B-2	12
1040-160-8063	B-8	13	1040-347-2421	B-1	19
1040-160-8068	B-5	3	1040-347-2427	B-1	5
1040-160-8082	B-1	2	1040-347-2429	B-1	1
1040-160-8083	B-6	7	1040-347-2431	B-1	20
1040-205-0358	B-8	1	1040-347-2432	B-1	11
1040-205-0359	B-8	14	1040-347-2433	B-2	10
1040-205-0360	B-8	8	1040-347-3883	B-2	2
1040-205-0361	B-8	9	1040-347-3889	B-2	1
1040-293-5891	B-6	4	1040-568-9676	B-6	1
1040-300-0014	KIT		1040-696-1374	B-8	2
1040-347-2410	B-3	11	1040-739-2104	B-1	15
1040-347-2411	B-1		1040-739-2105	B-1	12
	B-2		1040-739-2106	B-1	24
	B3		1040-739-2107	B -1	16

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CROS	S-REFERENCE	TO FIGURE AND I	TEM NUMBER

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1040-752-7955	B-7	1		B-3	13
1040-784-9218	B-5	1	5305-622-9476	B-3	1
1040-829-1771	KIT		5305-639-2221	B-1	21
3120-662-0701	B-2	8	5305-724-7275	B-3	10
4020-993 -3583	B-8	10	5305-866-0439	B-7	12
4720-839-3423	B-4	1	5305-984-6189	B-1	3
4730-160-8025	B-6	6		B-1	17
4730-160-8062	B-5	6	5305-993-2463	B-2	11
4730-377-9421	B-5	4	5306-639-0460	B-3	9
4730-529-2366	B-6	2	5310-045-3299	B-1	4
4730-541-7288	B-4	2		B-1	18
4730-639-9347	B-7	13	5310-209-2652	B-6	3
4730-826-0093	B-7	11	5310-292-1501	B-7	2
4730-972-7670	B-7	17	5310-292-9876	B-2	9
4820-611-6803 4820-647-1870	B-7 B-7	18 6	5310-582-5965	B-8	6.
5305-068-0501	B-8	5	5310-596-0133	B-2	3
5305-068-0502	B-8	12	5310-596-0134	B-1	9

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By Order of the Secretary of the Army:

CREIGHTON W. ABRAMS General, United States Army Chief of Staff

Official:

VERNE L. BOWERS
Major General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-28 (qty rqr block no. 53), Operator requirements for Portable Flamethrowers.