TM 5-3431-229-13

TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, AND DIRECT SUPPORT

MAINTENANCE MANUAL,

INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS

WELDING SHOP, TRAILER MOUNTED

LIBBY MODEL UNASSIGNED

FSN 3431-935-7821

HEADQUARTERS, DEPARTMENT OF THE ARMY

10 FEBRUARY 1972

WARNING

Inert-gas, metal-arc welding processes produce intense ultra-violet radiation which can be harmful to the eyes and skin. Therefore certain precautions must be observed to protect the operator from injury.

Eye and face protection should be accomplished with a welding helmet which has a # 10 or # 12 shade welding plate. In addition, the operator should wear # 2 shade flash goggles beneath the helmet. Skin must be completely covered.

Leather gloves are recommended for hand protection. Heavy, dark colored clothing should be worn to prevent the radiation penetrating to the skin or reflecting onto the neck under the helmet. Light-weight leather clothing is recommended because of its durability and resistance to deterioration

from radiation. Cotton clothing will deteriorate rapidly when subjected to ultra-violet radiation.

Adequate ventilation should be provided to remove fumes which are produced by this welding process. American standard Z-49.1 on welding safety covers such ventilation procedures. Highly toxic gases are formed when the vapors from halogenated solvents are subjected to ultra-violet radiation. Therefore, it is recommended that degreasers and other sources of these vapors should be located so that the vapors cannot reach the welding operation.

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Current as of 28 January 1972

CHAPTER Section		INTRODUCTION General 1-1 Description and data 1-7
CHAPTER Section	I.	OPERATING INSTRUCTIONS Operating procedures
	III.	the welding shop 2-3 2-4 Operation under unusual conditions 2-4 2-5
CHAPTER Section		OPERATOR/ CREW MAINTENANCE INSTRUCTIONS Lubrication instructions
Section	II. III. IV. V.	Preventive maintenance checks and services (PMCS). 3-1 Troubleshooting 3-2 Maintenance of welding gun and control monitor 3-4 Maintenance of welding reaching and trailer chassis 3-6 Maintenance of tools, oxygen and gas bottles, and accessories 3-8
CHAPTER Section	4. I. III. IV. V. VI. VI.	
Chapter Section	5. I. II. III. IV.	DIRECT SUPPORT MAINTENANCE INSTRUCTIONS Repair parts, special tools and equipment Troubleshooting General maintenance 5-5 Removal and installation of major components
CHAPTER	6.	REPAIR INSTRUCTIONS
Appendix	A.	REFERENCES
	B.	MAINTENANCE ALLOCATION CHART

с.	BASIC ISSUE ITEMS LIST AND TROOP INSTALLED OR AUTHORIZED LIST AND ORGANIZATIONAL AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND TOOLS LIST
SECTION I.	INTRODUCTION
II.	BASIC ISSUE ITEMS LIST (Nonapplicable)
III.	ITEMS TROOP INSTALLED OR AUTHORIZED LIST
IV.	PRESCRIBED LOAD ALLOWANCE (Not Applicable)
	REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE C-5 Welding Shop C-5 Welding Set, Inert Gas Shielded C-2, C-3 Miscellaneous Components C-4
S ECTION VI.	SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT FOR ORGANIZATIONAL MAINTENANCE (Not Applicable)
VII. Group 01. 02. 03.	
SECTION VIII.	SPECIAL TOOLS, TEST AND SUPPORT EQUIPMENT FOR DS MAINTENANCE (Nonapplicable)
IX.	FEDERAL STOCK NUMBER AND REFERENCE NUMBER
In d e x	

LIST OF ILLUSTRATIONS

Figure

Title

Page

1 - 1	Welding shop, trailer mounted, left front ¾ view1-2
1 - 2	Welding shop, trailer mounted, right rear ¾ view
2 - 1	Welding gun and control monitor controls and instruments
2 - 2	Oxygen and acetylene controls and instruments
2 - 3	Operation of equipment
4 - 1	Tool boxes, reflectors, removal and installation
4 - 2	Welding gun, disassembly and reassembly4-6
4 - 3	Control monitor, disassembly and reassembly4-8
5 - 1	Control monitor wiring diagram
5 - 2	Welding gun wiring diagram
5 - 3	Welding trailer body, removal and installation
C - 1	Tool boxes and reflectors
C - 2	Welding gun
C - 3	Control monitor
C - 4	Welding machine and trailer body

INDEX

INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual is for your use in operating and maintaining the welding shop, trailer mounted (Libby Model Unassigned). Chapter 1 provides a complete description of the welding shop. The manual is intended for use by the operator, organizational and direct support maintenance personnel.

1-2. Maintenance Forms and Records

Maintenance forms and records that you are required to use are explained in TM 38-750.

1-3. Reporting of Errors

The direct 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 direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

1-4. Equipment Serviceability Criterial (ESC)

This equipment is not covered by an ESC.

1-5. Destruction of Army Material to Prevent Enemy Use

Instructions for destruction of material to prevent enemy use will be in accordance with TM 750-244-3 (Procedures for Destruction of Equipment to Prevent Enemy use).

1-6. Administrative Storage

Preparation, care and removal of equipment in administrative storage will be in accordance with the applicable requirements of TM 740-90-1 (Administrative Storage of Equipment.)

Section II. DESCRIPTION AND DATA

1-7. Description

a. General. The welding shop (fig. 1-1 and 1-2) covered by this manual is basically a 300 amp welding machine mounted on a two-wheel trailer chassis. Included in the shop is an inert gas welding gun and control used in welding either ferrous or non-ferrous metals. Also included are the bottles

oxygen and acetylene necessary for oxyacetylene cutting torches. Tools and other equipment needed to perform cutting and welding operations are included and are stored in the shop's tool boxes.

b. Welding Machine. The welding machine is a Libby Model LT0300. For a complete description, refer to TM 5-3431-221-15.

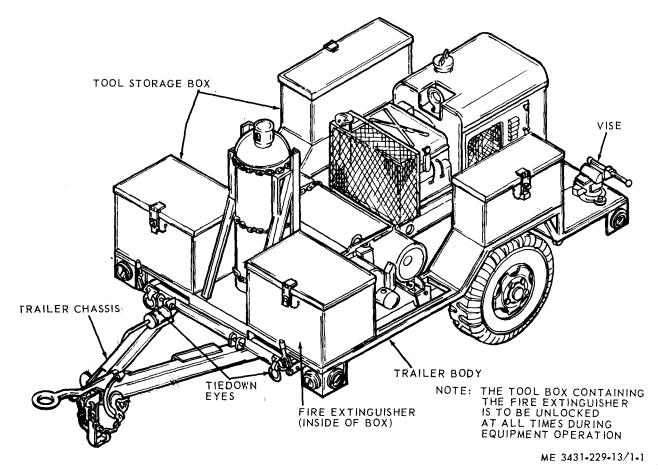
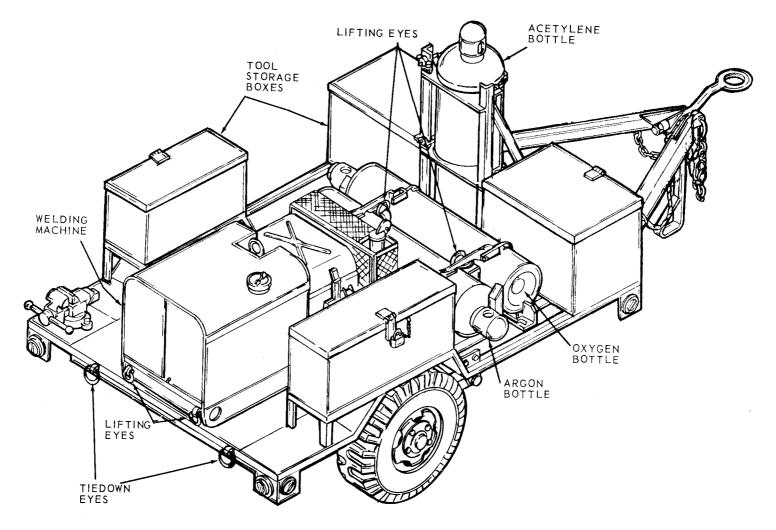


Figure 1-1. Welding shop, trailer mounted, left front.



ME 3431-229-13/1-2

Figure 1-2. Welding shop. trailer mounted, right rear.

c. Trailer Chassis. The trailer chassis is the government furnished Model M116A1. For complete description, refer to TM 9-2330-202-14P.

d. Welding Gun. The Westinghouse Metal Inert Gas (MIG) welding gun, Type SP-10, is designed for use on all materials for which there is a compatible filler wire. Steel, stainless steel, aluminum, magnesium, bronze, and nickel alloys are easily welded with this gun. The gun is designed for use where portability is a strict requirement.

e. Control Monitor. The control monitor is designed to power the wire drive motor independent of the arc. This is a true constant voltage unit. The wire speed directly controls welding current. The arc voltage is adjusted by means of the output voltage control on the welding power sup ply. With this control, the arc voltage or wire speed can be varied without need to recompensate the other.

f. Welding Shop Sets, Kits and Outfits Components List. All components required in welding shop, trailer mounted are contained in SC 3431-97-CL-E03.

1-8. Differences Between Models

This publication provides instructions for the welding shop, trailer mounted, Libby Model Unassigned serial number range 001 thru 476. There are no differences between models.

1-9. Identification and Tabulated Data

a. Identification. The welding shop has three data plates.

(1) Designation plate. Located on the back of the right rear tool box. It gives the overall length, height, width, cubage, weight and tonage.

(2) Instruction plate. Located on the back of the left rear tool box. It gives welding requirements for welding shop frame repair.

(3) Identification plate. Located on the back of the left rear tool box. It gives manufacturer, part no., serial no., and weight data.

b. Tabulated Data.

(1) Welding shop:

Manufacturer	. Libby Welding Co., Inc.
Contract no	DSA 400-70-C-4626
FSN	3431-935-7821
Model	Unassigned
Serial no. range	

(2) Welding Machine: See TM 5-3431-221-15.

(3) Trailer: See TM 9-2330-202-14P. (4) MIG Gun:

Manufacturer	Westinghouse Electric Co.
Model	
Туре	SA100 Series

(5) Control monitor:

Manufacturer	Westinghouse Electric Co.
Model	CVS-2
Туре	SAl00 Series

(6) Dimensions and weight:

Overall length	147 Inches
Overall height	
Overall width	
Weight	.3115 Plus Pounds

WARNING If equipment fails to operate refer to troubleshooting procedures in Chapter 3.

Section I. OPERATING PROCEDURES

2-1. Controls and Instruments

a. General. This paragraph describes the various controls and instruments and provides the operator/crew sufficient information to insure proper operation of the welding shop.

b. Controls and Instruments.

(1) Refer to TM 5-3431-221-15 for the controls and instruments pertaining to the welding machine.

(2) The controls and instruments pertaining to the welding gun and control monitor are illustrated in figure 2-1.

(3) The controls and instruments pertaining to the cutting and welding torches, and the oxygen and acetylene regulators and gauges are illustrated in figure 2-2.

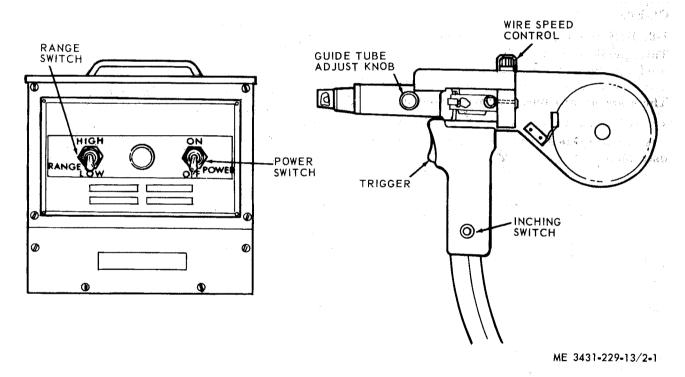


Figure 2-1. Welding gun and control monitor controls and instruments.

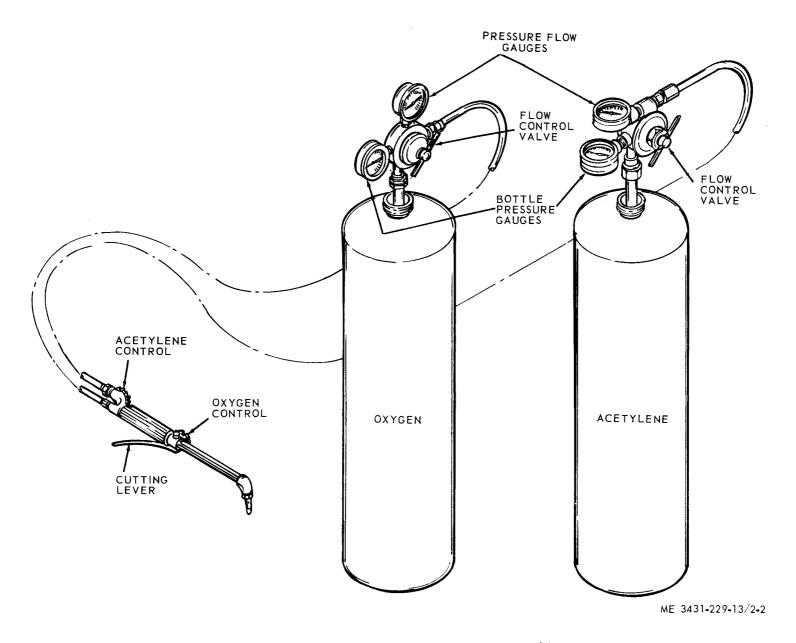


Figure 2-2. Oxygen and acetylene controls and instruments.

2-2. Operation of Equipment

a. General.

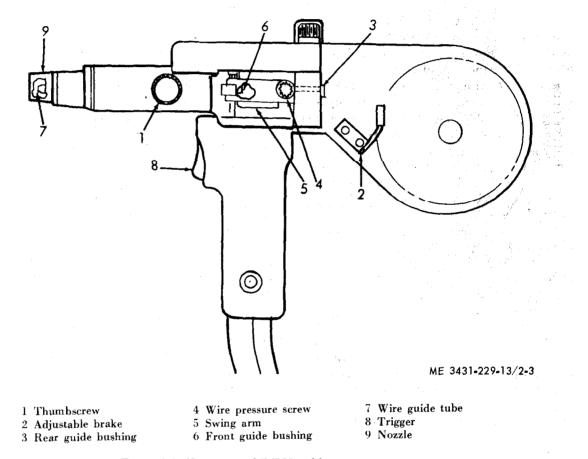
(1) The instructions in this paragraph are for the information and guidance of personnel responsible for operation of the welding shop.

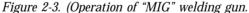
(2) The operator must know how to perform every operation of which the welding shop is capable. This paragraph contains instructions on starting and stopping the welding shop, on operation of the welding shop, and on coordinating the basic motions to perform the specific tasks for which the equipment is designed. Since nearly every job presents a different problem, the operator may have to vary given procedures to fit the individual job. *b. Starting.* Refer to TM 5-3431-221-15 for starting instructions.

c. Stopping. Refer to TM 5-3431-221-15 for stopping instructions.

d. Operation of "MIG" Welding Gun (fig. 2-3).

(1) *Guide tube position.* Loosen the thumbscrew (1) and adjust the position of the guide tube until the end of the guide tube is $\frac{1}{8}$ in. behind the edge of the nozzle (9). When using 0.030 and 0.047 inch wires, the rear end of the guide tube must be back against the front guide tube bushing to prevent the wire from buckling, with the rear end of an 0.030 or 0.047 inch guide tube (in the SP-10 gun) positioned against the guide bushing, the front end will be just even or slightly in front of the nozzle.





(2) Wire threading. Unscrew the knurled spool cover bolt, and remove the plastic cover. Pull back the adjustable brake (2) and place the desired spool of welding wire on the spool shaft so that the free end of the wire will pay-off from the top of the spool into the rear guide bushing (3). Loosen the wire pressure screw (4) and open the swing arm (5). Thread the free end of the wire into the rear guide bushing, through the front guide bushing (6) and into the wire guide tube (7). Close the swing arm (5) and adjust the pressure screw until there is just sufficient pressure to prevent the wire from

slipping. Excessive pressure will overload the motor and cause erratic welding action. Too little pressure will allow slippage and cause "burn backs". Switch the welder on and pull the gun trigger (8). Since welding power will be on when the trigger is pulled make sure the electrode does not touch the worn ground as an arc will result. If the wire has been, threaded properly and the pressure screw is adjusted for the correct pressure, the wire will feed freely from the guide tube.

(3) *Brake adjustment.* Loosen the two screws which hold the brake support. Adjust the position

of the brake support by moving the screw in the slotted hole until just enough pressure is applied to the wire spool to prevent the wire from uncoiling.

(4) Welding set-up. The following data is intended as a starting point in arriving at the proper adjustment of the system for welding an aluminum joint. It is important to understand that final adjustment for a particular joint may vary considerably from this data depending on the weld position, fit up material thickness, fillet size, etc.

(a) Set the voltage control on the welder to 20 volts.

NOTE

The open circuit voltage is usually about one to two volts higher per 100 amperes of welding current than the arc voltage.

(b) Loosen the pressure screw (4) and release the swing arm (5) to move the idler roll out of position. Taking care not to touch the worn piece with the wire, squeeze and hold the weld trigger; at the same time, adjust the gas regulator to give the required gas flow. As a starting point, adjust the gas flow to 35 cubic feet/hour. An increase or decrease may be required after welding conditions have been established. Reclose the swing arm and readjust the pressure screw.

(c) Adjust the position of wire so that the free end protrudes $\frac{1}{2}$ inch to $\frac{3}{4}$ inch beyond the end of the nozzle.

(d) Turn the electrode feed speed control to the maximum setting.

(e) With the electrode near the work, but not touching, lower the head shield, squeeze the trigger, and bring the electrode into contact with the work piece to strike an arc.

(f) Reduce the electrode feed speed control setting until the stabbing ceases and the "crackling" sound of the arc just disappears. When the setting of the electrode feed speed control is reduced, the weld current is reduced.

 $(g) \ {\rm To} \ {\rm stop} \ {\rm the} \ {\rm weld}, \ {\rm release} \ {\rm the} \ {\rm trigger} \ {\rm and} \ {\rm draw} \ {\rm the} \ {\rm welding} \ {\rm gun} \ {\rm away} \ {\rm from} \ {\rm the} \ {\rm work}.$

CAUTION

Do not whip the gun away from the

work without first releasing the trigger to break the arc. Failure to observe this precaution may result in: (1) Loss of the gas shield before the weld pool freezes, causing porosity; (2) Too much wire will extend from the nozzle at the end of the weld requiring a clipping operation before the next weld; (3) Extremely high transiet voltages can develop which may damage the motor.

(5) Welding techniques. After the operator has found the desired current, voltage, and electrode feed speed settings for a particular application, it is still necessary to observe some elementary principles of technique.

(a) Nozzle spacing. In general, the gas nozzle should be held as close to the work as is practical. In most cases, a distance of $\frac{3}{8}$ inch to $\frac{5}{8}$ inch is satisfactory.

(b) Gun angle. The best cleaning action is obtained, and excellent porosity-free welds are made by using a forehand technique. For example, a horizontal fillet is best made by the welding gun at an angle of 40° to 50° to the horizontal and using a forehand angle of 20° to 25° . A right-handed operator would then weld from right to left on a horizontal weld.

(c) Cleanness of material. It is essential that aluminum be absolutely clean when it is welded. To ensure porosity-free welds, a cleaning operation should immediately precede the welding operation. Use solvent Fed Spec O-T-634 (Trichloroethylene, Technical) and then wire brush area to be welded with stainless steel brush. Final clean with acetone and let dry.

(d) Wire cleanness. Wire should be clean and free from oxide, grease, and other foreign material. Do not try to use wire that is not clean. Wire which is not in use should be kept in a container which will protect it from all forms of contamination.

e. Welding With Stick Electrode. Refer to TM 5-3431-221-15 for instructions on welding with stick electrode.

Section II. OPERATION OF AUXILIARY MATERIAL USED IN CONJUNCTION WITH THE WELDING SHOP

2-3. Fire Extinguisher

a. Description. The fire extinguisher is the dry chemical type charged with enert gas under pressure. It is useful for all classes of fires and is safe to use on electrical fires. The chemical is non-toxic to humans and when used on a fire, emits no toxic by-product. The fire extinguisher is located in

the left front tool box, mounted to the under side of the cover.

b. Operation.

(1) Open clamp securing fire extinguisher in bracket.

(2) Remove extinguisher from bracket and lift bottom lever, breaking the parer seal.

(3) Aim extinguisher nozzle at base of flames and press down the top handle.

(4) For general fires or burning liquids, discharge chemical at base of flame with a sweeping motion while advancing.

(5) For electrical fires, turn off current if possible. Aim stream directly into burning part.

c. Maintenance.

(1) Observe pressure indicator at bottom of shell: if pointer is in open area, extinguisher is ready for service and needs no further checking. This inspection should be made every 30 days, at least.

(2) If pointer is under the red band, pull

Section III. OPERATION UNDER UNUSUAL CONDITIONS

2-4. General

Extreme cold and heat, dusty or sandy areas, salt water or high humidity areas and other unusual conditions require special care and additional maintenance to prevent damage to equipment and to insure unfailing operation. bottom lever, invert extinguisher and press top handle until extinguisher is empty. Unscrew valve assembly and remove from cylinder.

(3) The cylinder is non-refillable. When cylinder is empty, remove valve head from old cylinder by unscrewing and screw valve head onto new cylinder.

(4) Apply air pressure or nitrogen pressure to valve through opening, holding down on handle, to remove any powder remaining in valve.

(5) Reseal lever with new paper seal.

(6) Attach tag stating data and name of person replacing extinguisher shell.

2-5. Operation Under Unusual Conditions

a. Welding Machine. Refer to TM 5-3431-221-15.

b. Trailer Chassis. See TM 9-2330-202-14P.

c. Trailer Body and Tools. No special instructions are necessary other than keeping tools and trailer as free from dirt, moisture, and other foreign matter as possible.

CHAPTER 3

OPERATOR/CREW MAINTENANCE INSTRUCTIONS

Section I. LUBRICATION INSTRUCTIONS

3-1. Lubrication Information

a. Welding Machine. Refer to TM 5-3431-221-15

b. Trailer Chassis. Refer to TM 9-2330-202-14P.

c. Care of Lubricants. Store all lubricants in covered containers and keep in a protected place. Clean all containers before they are opened to prevent entry of dirt. Clean lubricating equipment before and after use.

Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

3-2. General

To insure that the welding shop is ready for operation at all times, it must be inspected systematically so that defects may be discovered and corrected before they result in serious damage or failure. The necessary preventive maintenance checks and services to be performed are listed as described in paragraph 3-3. The item numbers indicate the sequence of minimum inspection requirements. Defects discovered during operation of the unit will be noted for future correction, to be made as soon as operation has ceased. Stop operation immediately if a deficiency is noted operation which would damage the during equipment if operation were continued. All

deficiencies and shortcomings will be recorded together with the corrective action taken on DA Form 2404 at the earliest possible opportunity,

3-3. Preventive Maintenance Checks and Services

a. Refer to TM 5-3431-221-15 for preventive maintenance checks and services to the welding machine.

b. Refer to TM 9-2330-202-14 for preventive maintenance checks and services to the trailer chassis.

c. Refer to table 3-1 for preventive maintenance checks and services to other than the trailer chassis and the welding machine.

Section III. TROUBLESHOOTING

3-4. General

a. This section contains troubleshooting information for locating and correcting most of the operating troubles which may develop in the welding shop. Each malfunction for an individual component, unit, or system is followed by a list of tests or inspections which will help you to determine probable causes and corrective actions to take. You should perform the tests / inspections and corrective actions in the order listed. Refer to table 3-2 for troubleshooting.

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

Table	3-1.	Preventive	Maintenance	Checks	and	Services
-------	------	------------	-------------	--------	-----	----------

		Oper		erval	C	hrg.	B — Before Oper D — During Oper	-		
E Ja	Daily				м	Q	I tem to be Inspected	Procedure	Reference	
Item number	В	D	A	W		M	¥	4		
1	1						Welding gun	Check for sufficient amount of welding wire; replenish as needed.	See paragraph 2-2d	
2	2				· ·		Oxygen bottle	Check pressure of bottle; replace as necessary.	See paragraph 3-8	
3	3						Acetylene bottle		See paragraph 3-8	
4	4						Argon bottle	Check pressure of bottle; replace as necessary.	See paragraph 3-8	
- 5	5						Control monitor	Check fuses:	See paragraph 3-5	
								Two on left side of box are 4 AMP, 250 V.		
								One on right side of box is 1 AMP, 250 V.		
6				1			Cables, welding gun	Inspect cables for broken insulation.	See paragraph 3-5	
7				2		1		Check for damaged gas hose.	See paragraph 3-5	
8				3	1		Nozzle / adapter,	Check nozzle and adapter for signs of wear or		
							welding gun	build up. Clean as necessary.	See paragraph 3-5	
9				4			Barrel, welding gun	Inspect barrel for wear or build up. Clean gas		
								passages thoroughly.	See paragraph 3-5	
10				5			Guide tube, welding	Check guide tube for damage. Remove burrs		
				1			gun	from edges near hole. If wire jams up or does		
							_	not feed easily, replace tube.	See paragraph 3-5	
11				6			Drive roll, welding	Check drive roll for accumulation of dirt or		
							gun	other foreign matter. Clean out all matter in		
							-	the serrations of the drive roll.	See paragraph 3-5	
	L			L	 	Į			1	

c. Refer to TM 5-3431-221-15 for troubleshooting that concerns the welding machine.

d. Refer to TM 9-2330-202-14P for troubleshooting that concerns the trailer chassis.

Before you use this table, be sure you have performed all applicable operating checks.

Section IV. MAINTENANCE OF WELDING GUN AND CONTROL MONITOR

3-5. Welding Gun and Control Monitor

a. General. Maintenance at this level is restricted in that virtually no disassembly is attempted. Primarily the maintenance will consist only on inspecting, servicing, and adjusting the equipment.

b. Adjustment for Welding Gun.

(1) *Wire brake.* Refer to paragraph 2-2 d (3) of this manual.

(2) *Rheostat.* Turn the rheostat knob clockwise to reduce speed.

(3) *Guide tube.* Refer to paragraph 2-2 d(1) of this manual.

c. Maintenance of Welding Gun and Control Monitor.

(1) As the gun is used, a small amount of spatter will collect on the end of the guide tube and on the nozzle. This spatter can be removed easily with a knife or some other similar implement. Periodically, remove the nozzle by pulling it from the nozzle holder and inspect the nozzle and gun barrel for spatter which may have collected inside. Excessive spatter can cause a short between the nozzle and the guide tube. Such a short will create an arc between the nozzle and the work piece if accidental contact is made.

Table 3-2. Troubleshooting

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

WELDING GUN

1. WELDING GUN WILL NOT WELD. Step 1. Check to see if the control monitor power switch is in "OFF" position. If prover switch is in "OFF" position, turn it to "ON" position (para 2-1 b). Step 2. Check connector at control monitor to see if it is making contact. Disconnect receptacle and inspect for corrosion. Clean contacts as necessary and connect it back up, making certain the receptacle is tight. Step 3. Check connector at welding machine to see if it is making contact. Perform same corrective action given in step 2 above. Step 4. Check to see if argon valve is off. Turn valve on and adjust to desired pressure (para 2-1 b(2)). Step 5. Check to see if argon bottle is empty. Replace bottle if necessary (para 3-8). Step 6. Check to see if wire is feeding, if not it is probably kinked. Open swing arm and manually feed the bent wire through the tube until straight wire is properly aligned with drive wheel. 2. CUTTING TORCH WILL NOT OPERATE PROPERLY. Step 1. Check to see if cutting tip is clogged. Remove tip and clean obstruction from it (para 3-8). Step 2. Check to see if oxygen or acetyline is off or not set properly. Turn valves on and/or reset to proper pressure for the job at hand (para 2-1 b (3)).

(2) If the guide tube becomes bent, replace it with a new guide tube. If a burn-back occurs, do not inch the wire. "Attempts to inch the wire under these circumstances will blow the fuse in the control circuit. When a burn-back occurs, loosen the thumbscrew which secures the guide tube, and inch both the wire and the guide tube out of the gun. Cut the wire about 1/16 inch from the rear of the guide tube. Hold the guide tube perpendicular to a hard, flat surface, and strike the end of the wire against the flat surface. If this does not free the wire, cut or grind off the melted portion of the guide tube and remove the wire. The burr caused by cutting should be removed from the guide tube hole

with a small drill. Failure to remove the burr can result in another burn-back. Reinstall the guide tube in the gun, ensuring that the end of the guide tube is the correct distance from the nozzle. The 1/16 to 0.035 inch tubes may be trimmed with a maximum of $\frac{3}{8}$ inch, and the 0.020 to 0.030 inch tubes may be trimmed a maximum of $\frac{1}{8}$ inch before discarding.

(3) The gas holes in the gun barrel may become clogged with a residue of white powder

which will obstruct the flow of gas. The gun should be dismantled every 100 hours, and the gas holes blown out with high pressure air.

(4) The fuses in the control monitor need not be inspected except in the event of a failure of equipment. At this time, check the fuses and if burned out, replace. If when operation continues, fuses continue to burn out, refer the trouble to organizational maintenance.

Section V. MAINTENANCE OF WELDING MACHINE AND TRAILER CHASSIS

3-6. Welding Machine

Refer to TM 5-3431-221-15 for instructions on operators maintenance.

3-7. Trailer Chassis

Refer to TM 9-2330-202-14P for instructions on operators maintenance.

Section VI. MAINTENANCE OF TOOLS, OXYGEN AND GAS BOTTLES, AND ACCESSORIES

3-8. Oxygen, Acetylene, and Argon Bottles

Check the bottles weekly for proper fill. Replace empty bottles. When use of these bottles is abnormal, the checks on the bottles should be made more frequently.

3-9. Tools and Accessories

To maintain maximum efficiency, it is necessary to keep all welding tools, as well as other tools, as clean as is possible. Use Fed Spec P-D-680 (Dry Cleaning Solvent) or other equivalent solvents to keep all non-electrical tools clean.

CHAPTER 4

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. SERVICE UPON RECEIPT OF MATERIAL

4-1. Inspecting and Servicing the Equipment

a. Make a complete visual inspection of the entire welding shop to see that all items that are listed in Appendix C (Basic Issue Items List) have been shipped with the unit.

b. Make a complete visual inspection for parts damaged or last during shipment. Report all damaged or missing parts to organizational maintenance. *c.* Perform the preventive maintenance checks and services given in the table 3-1 and table 3-2.

4-2. Installation

The welding shop is shipped completely assembled with the tools stored in the tool boxes. Although the welding shop is not ready for operation, no installation instructions are necessary until the actual operation of the unit is begun.

Section II. MOVEMENT TO A NEW WORK SITE

4-3. Dismantling for Movement

a. The welding shop is a mobile vehicle and may be towed to the new work site.

b. Connect the welding shop to the prime mover.

c. Retract the landing leg and secure it in the "UP" position (TM 9-2330-202-14P).

d. Connect the intervehicular wiring to the prime mover (TM 9-2330-202-14P).

e. Make sure all the tools have been disconnected from the welding machine and pressurized bottles and stored in the proper tool boxes.

f. Release the trailer parking brakes (TM 9-2330-202-14P).

4-4. Reinstallation After Movement

a. Make sure the welding shop is parked on a level surface.

b. Set the park brakes on the trailer (TM 9-2330-202-14P).

c. Disconnect the intervehicular wiring (TM 9-2330-202-14P).

d. Lower the landing leg (TM 9-2330-202-14P).

e. Disconnect the welding shop from the prime mover.

Section III. REPAIR PARTS, SPECIAL TOOLS AND EQUIPMENT

4-5. Tools and Equipment

Tools, equipment, and repair parts issued with or authorized for the welding shop are listed in appendix C.

4.6. Special Tools and Equipment

No special tools or equipment are authorized or issued with the welding shop.

4-7. Maintenance Repair Parts

a. Refer to TM 5-3431-221-25P for

organizational maintenance, repair parts for the welding machine.

b. Refer to TM 9-2330-202-14P which includes organizational maintenance repair parts for the trailer chassis.

c. Refer to Appendix C of this manual for organizational maintenance repair parts for the welding shop, trailer mounted.

4-8. General

To insure that the welding shop is ready for operation at all times, it must be inspected systematically so that defects may be discovered and corrected before they result in serious damage or failure. The necessary preventive maintenance checks and services to be performed are listed as described in paragraph 4-9. The item numbers indicate the sequence of minimum inspection requirements. Defects discovered during operation of the unit will be noted for future correction, to be made as soon as operation has ceased. Stop operation immediately if a deficiency is noted during operation which would damage the equipment if operation were continued. All deficiencies and shortcomings will be recorded together with the corrective action taken on DA Form 2404 at the earliest possible opportunity.

4-9. Preventive Maintenance Checks and Services

a. Refer to TM 5-3431-221-15 for preventive maintenance checks and services to the welding machine.

b. Refer to TM 9-2330-202-14P for preventive maintenance checks and services to the trailer chassis.

c. Refer to table 4-1 for preventive maintenance checks and services to other than the trailer chassis and the welding machine.

Section V. TROUBLESHOOTING

4-10. General

a. This section contains troubleshooting information for locating and correcting most of the operating troubles which may develop in the welding shop. Each malfunction for an individual component, unit, or system is followed by a list of tests or inspections which will help you to determine probable cause and corrective actions to take. You should perform the tests / inspections and corrective actions in the order listed.

b. This manual cannot list all malfunctions that

may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify your supervisor.

c. Refer to TM 5-3431-221-15 for troubleshooting that concerns the welding machine.

d. Refer to TM 9-2330-202-14P for troubleshooting that concerns the trailer chassis.

NOTE Before you use this table, be sure you have performed all applicable operating checks.

	Interval Operator Org.						B — Before Oper D — During Oper	-	•		
e d	Daily							Item to be Inspected	Procedure	Reference	
Item number	В	D	A	W.	м	Q					
1 2					1			Check brake tension; if brake is worn, replace. Check for proper operation of trigger and switches. Refer faulty or inoperative parts to direct support.	See paragraph		
3					3		Barrel assembly, welding gun	Check for clogged jets and, if clogged remove and clean jets.			
4					4		Terminal strip, control monitor	Check strip, making sure all contacts are secure.	See paragraph	4-19	

Table 4-1. Preventive Maintenance Checks and Services

maintenance.

support maintenance.

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION
WELDING GUN
 WELDING GUN WILL NOT FEED WIRE Step 1. Check to see if motor is burned out. If motor is burned out, refer to direct support maintena Step 2. Check to see if inching switch is inoperative. If inching switch is inoperative, refer to direct support Step 3. Check to see if wiring is faulty. If wiring is faulty, refer to direct support maintenance. Step 4. Check to see if swing arm assembly is inoperative.

If swing arm assembly is inoperative, check tension spring

and if broken, replace. Check drive roll

for ease of rotation (para. 4-18).

2. WELDING GUN SPATTERS; ERRATIC WELDS

Step 1. Check to see if gas jets in barrel are clogged.

If gas jets are clogged, remove barrel and clean jets thoroughly

(para 4-18).

Step 2. Check to see if nozzle is damaged.

If nozzle is damaged, replace (para 4-18).

3. WELDING GUN WILL NOT OPERATE.

Step 1. Check to see if control monitor circuit is damaged.

Check capacitors, resistor, and wiring for proper operation (para 4-19).

Step 2. Check to see if the power and/or range switches in the control

monitor are damaged or inoperative.

Replace switches as necessary (para 4-19).

Step 3. Check to see if there is a broken wire in the handle assembly of the welding gun.

If there are any broken wires in the handle, refer to direct support maintenance.

Section VI. RADIO INTERFERENCE SUPPRESSION

4-11. General Methods Used to Obtain **Proper Suppression**

Essentially, suppression is attained by providing a low resistance path to ground for stray currents. The methods used include shielding the ignition and high-frequency wires, grounding the frame with bonding straps, and using capacitors and resistors.

4-12. Interference Suppression Components

a. Primary Suppression Components. The primary suppression components are those whose primary function is to suppress radio interference. These components are described and located in TM 5-3431-221-15.

b. Secondary Suppression Components. These

components have radio interference suppression functions which are incidental or secondary to their primary function.

4-13. Replacement of Suppression Components

Refer to TM 5-3431-221-15 and replace defective radio interference suppression components.

4-14. Testing of Radio Interference **Suppression Components**

If test equipment is not available and interference is indicated, isolate the cause of interference by the trial and error method of replacing components in turn until the cause of interference is located and eliminated.

Section VII. MAINTENANCE OF BODY AND HULL COMPONENTS

4-15. Tool Boxes

a. Removal.

- (1) Remove the padlocks (1, fig. 4-l).
- (2) Remove all the tools from the tool boxes.

(3) Remove the twenty-six nuts (2, 7 and 12), flatwashers (4, 9 and 14) and capscrews (4, 9 and 14). Remove the tool box floors (5, 10 and 15) and remove the tool boxes (6, 11 and 16).

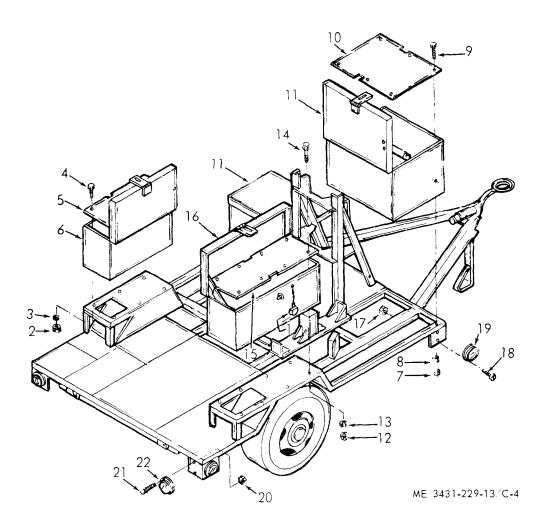


Figure 4-1. Tool Boxes, reflectors, removal and installation.

Key to figure 4-1:

- I Padlock set
- 2 Nut
- 3 Flatwasher
- 4 Capscrew 5 Tool box floor
- 6 Tool box
- 7 Nut
- 8 Flatwasher
- 9 Capscrew
- 10 Tool box floor
- 11 Tool box
- 12 Nut
- 13 Flatwasher
- 14 Capscrew
- 15 Tool box floor
- 16 Tool box
- 17 Nut
- 18 Capscrew
- 19 Amber reflector
- 20 Nut
- 21 Capscrew
- 22 Red reflector

b. Cleaning and Inspection.

(1) Clean all metal parts and hardware using cleaning solvent (Fed Spec P-D-860).

(2) Inspect the hardware for stripped or crossed threads.

(3) Inspect the tool boxes and floors for dents, cracks, rust, or other damage.

c. Repair and replacement.

(1) Replace any damaged hardware.

(2) Straighten any smaller dents using a hammer.

(3) Torque dents, that may render the tool box lid inoperative' or retard the proper storage of tools in the box, will constitute the replacement of the tool box. (4) Weld any cracks in the metal and file or sand down any rough edges at the rim of the boxes.

d. Reinstallation. Position the boxes and floors on the body and secure using the hardware removed in paragraph a. above.

4-16. Reflectors

a. *Removal.* Remove the two nuts (17 and 20, fig. 4-1) and capscrews (18 and 21) which hold each of the four amber reflectors (19) and each of the four reel reflecors (22).

b. Cleaning, Inspection, Repair, and Replacement.

(1) Clean all parts using cleaning solvent (Fed Spec P-D-680).

(2) Inspect hardware for stripped or otherwise damaged threads and replace as necessary.

(3) Replace broken, bent or otherwise damaged reflectors.

c. Reinstallation. Refer to paragraph a above and reinstall reflectors in reverse order.

4-17. Trailer Body

a. General. The trailer body will not be removed by organizational maintenance. However, repairs will be made on the body while installed.

b. Repair. Straighten all smaller dents with a hammer. Any larger dents may require heating and straightening by using lever action where possible. If damage is in the form of metal breakage it will be welded, If the body is damaged to an extent beyond these repairs, refer it to direct support maintenance for repairs.

4-18. Welding Gun

a. Disassembly. Refer to figure 4-2 and disassemble in sequence indicated by callouts.

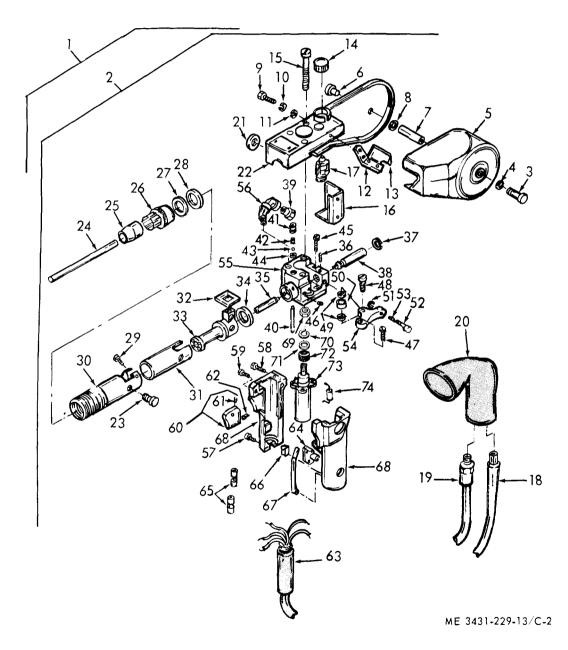


Figure 4-2. Welding gun, disassembly and reassembly.

Key to figure 4-2:

- 1 Welding set
- 2 Welding gun
- 3 Reel cover bolt
- 4 Preformed packing
- 5 Reel cover
- 6 Machine screw
- 7 Reel shaft
- 8 Flatwasher
- 9 Thread cutting tapping screw
- 10 Lockwasher
- 11 Flatwasher
- 12 Brake support
- 13 Brake
- 14 Rheostat knob
- 15 Machine screw
- 16 Potentiometer shield
- 17 Dual potentiometer assembly
- 18 Current cable assembly
- 19 Gas hose assembly
- 20 Boot
- 21 Rubber bushing
- 22 Shield assembly
- 23 Guide tube lock screw
- 24 Wire guide tube

NOTE

If any of the items in the welding gun handle (60-74, fig. 4-2) appear to be broken, burned out or otherwise damaged, refer to direct support maintenance.

b. Cleaning and Inspection.

(1) Clean all non-electrical welding gun parts with dry cleaning solvent (Fed Spec P-D-680).

(2) Blow out all jets and air passages using compressed air.

(3) Clean any weld spatters off the nozzle and guide tube using a knife or similar implement.

(4) Inspect all hardware for stripped or damaged threads.

(5) Check guide bushings and guide tube for evidence of wear, breaks, bends, or other damage.

(6) Check all welding gun parts for evidence of wear, cracking, rusting or other damages.

c. Repair and Replacentent.

(1) Replace any parts that are broken, split, or are worn down in such a way that it would impede proper operation.

(2) Replace any damaged hardware.

d. Reassembly. The welding gun may be reassembled by referring to figure 4-2 and reversing the sequence of disassembly.

25 Gas nozzle 26 Adaptor 27 Insulating washer 28 Insulating washer 29 Machine screw 30 Gun barrel housing 31 Gun barrel insulation 32 Insulation 33 Gun barrel assembly 34 Insulating washer 35 Front guide bushing 36 Setscrew 37 Retaining ring 38 Rear guide bushing 39 Fitting 40 Pin 41 Pipe plug 42 Spring 43 Ball bearing 44 Preformed packing 45 Machine screw" 40 Setscrew 47 Machine screw 48 Nylon screw

49 Insulation washer

- 50 Insulated idler roll 51 Preformed packing 52 Bearing arm bolt 53 Spring 54 Bearing arm 53 Bracket and fitting assembly 56 Fitting assembly 57 Machine screw 58 Machine screw 59 Machine screw 60 Trigger assembly 61 Setscrew 62 Spring 63 Power supply cable assembly 64 Inching switch 65 Disconnect knife 66 Trigger switch 67 Flat spring 68 Handle assembly 69 Plain hexagon nut 70 Lockwasher 71 Flatwasher

4-19. Control Monitor

a. Disassembly. Refer to figure 4-3 and disassemble the control monitor.

b. Cleaning and Inspection.

(1) Clean all non-electrical parts with dry cleaning solvent (Fed Spec P-D-680).

(2) Inspect all parts for physical damage such as cracks, corrosion, rust or other damage.

(3) If a component is suspected to be faulty, such as resistors, rectifiers, etc., refer these problems to direct support maintenance.

(4) Inspect hardware for stripped or damaged threads.

(5) Inspect plates and covers for rusting, dents or other damage.

c. Repair and Replacement.

(1) Replace parts that have been physically damaged.

(2) Replace damaged hardware.

(3) Replace inoperative or faulty electrical components.

(4) Replace plates, covers, and other such parts that cannot be repaired by straightening, cleaning or other simple means of repair.

- 72 Drive roll
- 73 Electric motor
- 74 Capacitor

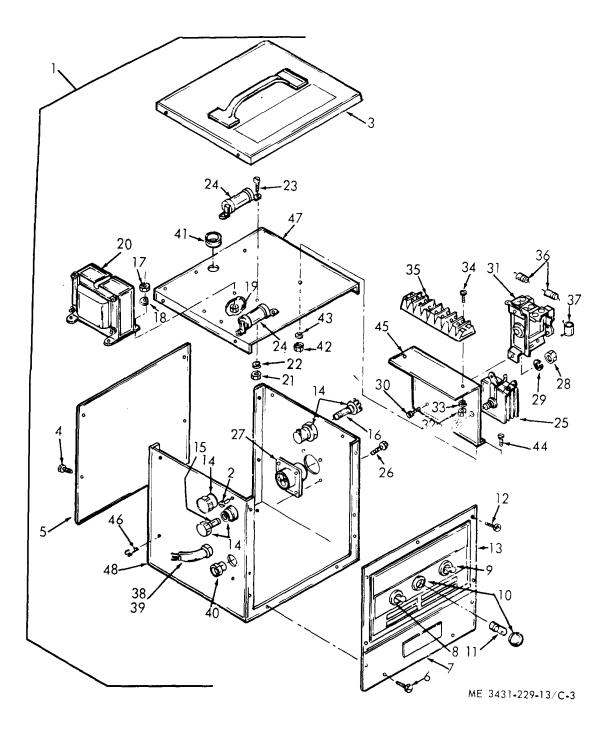


Figure 4-3. Control monitor, disassembly and reassembly.

Key to fig. 4-3:

1 Welding control

- 2 Thread cutting self-tapping screw
- 3 Top plate
- 4 Thread cutting self-tapping screw
- 5 Back plate
- 6 Thread cutting self-tapping screw
- 7 Front bottom plate
- 8 Range switch
- 9 Power switch
- 10 Lamp assembly
- 11 Incandescent lamp
- 12 Thread cutting self-tapping screw
- 13 Front top plate
- 14 Fuse holder
- 15 Fuse
- 16 Fuse
- 17 Plain hexagon nut
- 18 Lockwasher
- 19 Machine screw
- 20 Transformer
- 21 Plain hexagon nut
- 22 Lockwasher
- 23 Machine screw
- 24 Resistor

- 25 Rectifier
- 26 Thread cutting self-tapping screw
- 27 Receptacle
- 28 Plain hexagon nut
- 29 Lockwasher
- 30 Machine screw
- 31 Relay
- 32 Plain hexagon nut
- 33 Lockwasher
- 34 Machine screw
- 35 Terminal block
- 36 Resistor
- 37 Resistor
- 38 Cable assembly
- 39 Cable assembly
- 40 Bushing
- 41 Bushing
- 42 Plain hexagon nut
- 43 Lockwasher
- 44 Machine screw
- 45 Bracket
- 46 Thread forming self-tapping screw
- 47 Bracket
- 48 U-shaped base

d. Reassembly. Refer to figure 4-3 and reassemble the control monitor by reversing the order of disassembly.

CHAPTER 5

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

Section I. REPAIR PARTS, SPECIAL TOOLS AND EQUIPMENT

5-1. Special Tools and Equipment

No special tools or equipment are needed for the welding shop.

5-2. Direct Support Maintenance Repair Parts

Direct support maintenance repair parts are listed and illustrated in Appendix C of this manual.

5-3. Special Designed (Fabricated) Tools and Equipment

No specially designed tools and equipment are needed by maintenance personnel.

Section II. TROUBLESHOOTING

5-4. General

a. This section contains troubleshooting inform at ion for locating and correcting most of the operating troubles which may develop in the welding shop. Each malfunction for an individual component, unit, or system is followed by a list of tests on inspections which will help you to determine probable causes and corrective actions to take. You should perform the tests / inspections and corrective actions in the order listed. Refer to table 5-1 for troubleshooting.

b. This manual cannot list all malfunctions that

Section III. GENERAL MAINTENANCE

5-5. General

This section contains maintenance instructions for maintenance to be performed at direct support level as allocated by the Maintenance Allocation Chart. Refer to appendix B.

5-6. Forms and Records

Refer to paragraph 1-2.

may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify your supervisor.

c. Refer to TM 5-3431-221-15 for troubleshooting that concerns the welding machine.
 d. Refer to TM 9-2330-202-14P for troubleshooting that concerns the trailer chassis.

NOTE Before you use this table, be sure you have performed all applicable operating checks.

5-7. Description

For a complete description of the welding shop, refer to paragraph 1-7.

5-8. Tabulated Data

a. Refer to paragraph 1-9 for tabulated data.

b. See figure 5-1 for control monitor wiring, diagram.

c. See figure 5-2 for welding gun wiring diagram.

MALFUNCTIO!N TEST OR INSPECTION CORRECTIVE ACTION

WELDING GUN

 WELDING GUN WILL NOT FEED WIRE. Step 1. Check to see if motor is burned out. Replace motor if burned out
 Step 2. Check to see if inching switch is inoperative. Replace inching switch if necessary.
 Step 3. Check to see if wiring in handle is faulty. Repair or replace wiring as necessary.
 WELDING GUN WILL NOT OPERATE.

 Step 1. Check for faulty components in control monitor.

 Replace faulty components as necessary.

 Step 2. Check for faulty components in welding gun handle.

 Replace faulty components as necessary.

 Step 3. Welding machine will not function properly.

 Repair welding machine per TM 5-3431-221-15.

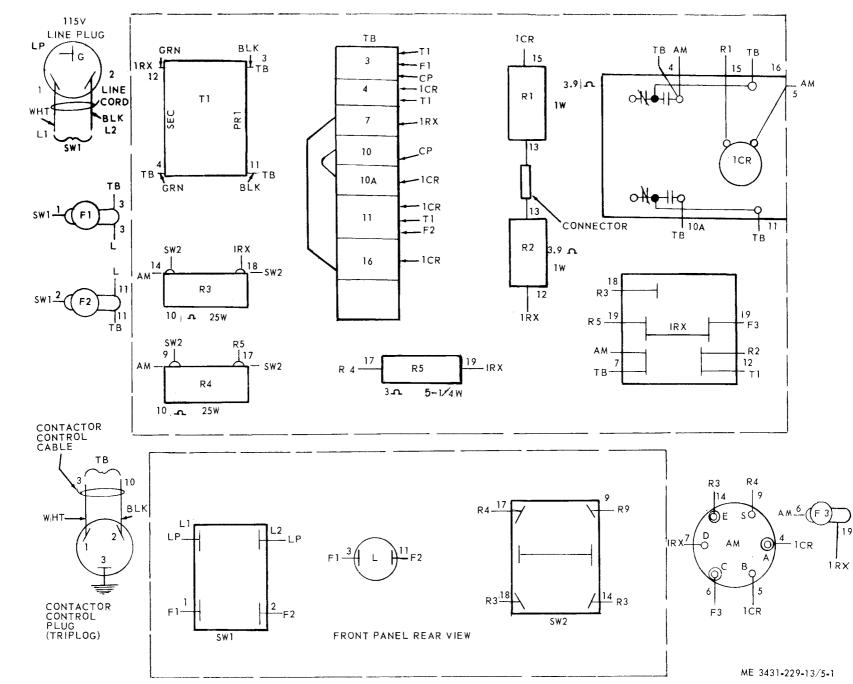
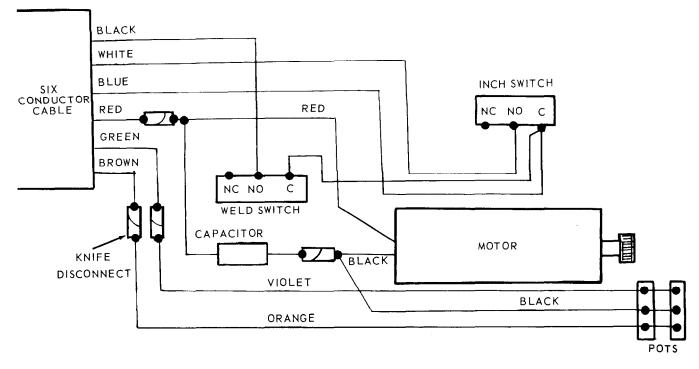


Figure 5-1. Control monitor wiring diagram



ME 3431-229-13/5-2

Figure 5-2. Welding gun wiring diagram

5-9. Welding Machine

Refer to TM 5-3431-221-15 for maintenance instructions to be used at direct support level on the welding machine.

5-10. Trailer Chassis

Refer to TM 9-2330-202-14P for maintenance instructions to be used at direct support level on the trailer chassis.

5-11. Welding Gun

Refer to paragraph 6-4 of this manual for maintenance instructions to be used at direct support level on the welding gun.

5-12. Control Monitor

Refer to paragraph 6-5 of this manual for maintenance instructions to be used at direct support level on the control monitor.

Section IV. REMOVAL AND INSTALLATION OF MAJOR COMPENENTS

5-13. Welding Machine

WARNING

Do not attempt to raise the welding machine off the trailer using a lifting device with a lifting capacity of less than 1000 pounds. Do not allow the welding machine to swing while suspended. Do not stand under the welding machine while suspended. Failure to observe this warning can result in serious injury or death to personnel.

a. Removal. Remove the four bolts (8, fig. 5-3), lockwashers (9) and flatwashers (10). Attach a lifting device with a lifting capacity of not less than

1000 pounds and raise the welding machine (11) off the trailer body.

b. Installation. Lower the welding machine (11) onto the trailer body and align it with the mounting holes. Secure the welding machine using the four bolts (8), lockwashers (9) and flatwashers (10).

5-14. Trailer Body

a. Removal.

(1) Remove the tool boxes (para 4-15).

(2) Release the load binders (32 and 41, fig. 5-3) and remove the acetylene bottle (44), oxygen bottle (45), and argon bottle (46). Remove the vise (47).

(3) Remove the welding machine (para 5-13).

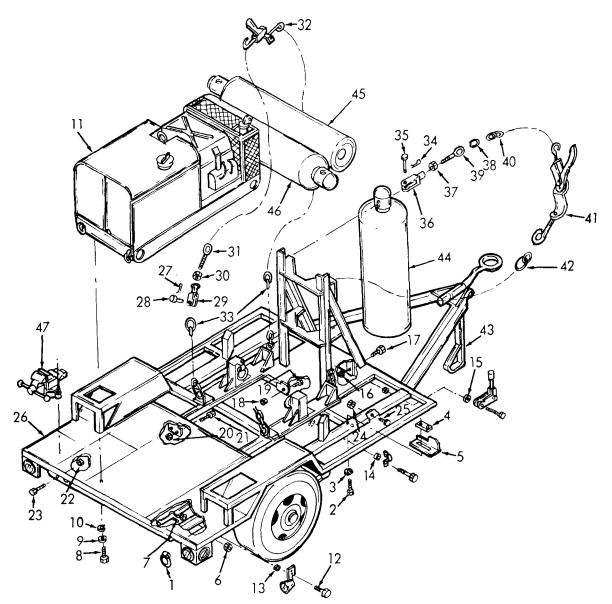
(4) Remove the two nuts and bolts (12) that hold each taillight to the body and trailer. Remove the two taillights and spacers (13). Remove the two nuts and bolts which bold each of the two handbrake clamps and remove the spacers (14). Remove the two nuts and bolts which hold each of the two handbrake levers and remove the two spacers (15). Remove the four nuts (6) and two U-bolts (7) and remove the ground rod.

(5) Remove the fourteen nuts (24) and bolts (25) along the side of the body. Remove the two nuts (16) and capscrews (17) at the front of the body. Remove the twelve nuts (18) and capscrews (19) attaching the body to the trailer cross beams. Remove the four nuts (20) and capscrews (21) from the brackets near the shock absorbers. Remove the six nuts (22) and capscrews (23) attaching the body to the trailer rear cross beam. Attach a lifting device to the body (26) and raise it off the trailer.

b. Reinstallation. Refer to paragraph a. above and reinstall by reversing removal instructions.

5-15. Trailer Chassis, Removal and Installation

The trailer chassis (43, fig. 5-3) is the bottom-most part, removal and installation is accomplished by the removal and installation of the trailer body. See paragraph 5-14 for these instructions.



ME 3431-229-13/5-3

- 1 Anchor shackle
- 2 Capscrew
- 3 Lockwasher
- 4 Plate nut
- 5 Cylinder stop
- 6 Nut 7 U-bolt
- 8 Capscrew
- 9 Lockwasher
- 10 Flatwasher
- 11 Welding machine
- 12 Capscrew
- 13 Spacer
- 14 Spacer
- 15 Spacer 16 Nut

- 17 Capscrew 18 Nut
- 19 Capscrew
- 20 Nut
- 21 Capscrew 22 Nut
- 23 Capscrew
- 24 Nut
- 25 Bolt
- 26 Trailer body
- 27 Cotter pin
- 28 Headed straight pin
- $29 \operatorname{Rod}$ end clevis
- 30 Nut
- 31 Turnbuckle eye bolt
- 32 Loadbinder

- 33 Chain
- 34 Cotter pin
- 35 Headed straight pin
- 36 Rod end clevis
- 37 Nut
- 38 Lap end link
- 39 Turnbuckle eye bolt
- 40 Chain
- 41 Loadbinder
- 42 Chain
- 43 Trailer chassis
- 44 Acetylene bottle
- 45 Oxygen bottle
- 46 Argon bottle
- 47 Vise

Figure 5-3. Welding trailer body, removal and installation.

REPAIR INSTRUCTIONS

6-1. General

This chapter provides instructions for the repair of the welding shop. It includes the repair of those items that are the responsibility of direct support maintenance as allocated by the Maintenance Allocation Chart.

6-2. Trailer Chassis

Refer to TM 9-2330-202-14 for trailer repair instructions.

6-3. Welding Machine

Refer to TM 5-3431-221-15 for welding machine repair instructions.

6-4. Welding Gun

a. Disassembly. Refer to paragraph 4-18 of this manual and disassemble the welding gun.

b. Overhaul.

(1) Refer to paragraph 4-18 for repair accomplished by the replacement of parts. Items 60 through 74 of figure 4-2 are the responsibility of direct support maintenance.

(2) The welding gun handle, which consists of the motor inching switch, capacitor, rheostat, and control cable, contains the electrical system as far as the gun is concerned. Repairs shall consist of the replacement of damaged or inoperative parts. Broken wiring shall be repaired by splicing the cable back to obtain suitable wiring. Check the capacitor for leakage and replace as necessary.

(3) Refer to figure 5-2 for the wiring diagram. Use this as a guide in repairing the unit.

c. Reassembly. Refer to paragraph 4-18 and reassemble the welding gun.

6-5. Control Monitor

a. Disassembly. Refer to paragraph 4-19 and disassemble the control monitor.

b. Overhaul.

(1) The control monitor may be completely overhauled by organizational maintenance in as much as the replacement of parts is concerned. It is the responsibility of direct support maintenance to test the unit to make sure that it is performing its normal duties.

(2) The control monitor requires little or no maintenance, other than changing fuses occasionally. The consistent failure of the control monitor to function properly will warrant overhaul. A check of the capacitor, resistors, and rectifier should first be made. Refer to the wiring diagram (fig. 5-1) for proper wiring and values of components.

c. Reassembly. Refer to paragraph 4-19 and reassemble the control monitor.

APPENDIX A

REFERENCES

A-1. Fire Protection	
TB 5-4200-200-10	Hand Portable Fire Extinguisher Approved for Army Users
A-2. Lubrication	
C9100-1L	Identification List for Fuels, Lubrication, Oils and Waxes
LO 5-2805-259-12	Department of the Army, Lubrication Order
A-3. Painting	
TM 9-213	Painting Instructions for Field Use
A-4. Radio Suppression	
TM 11-483	Radio Interference Suppression
A-5. Maintenance	
TM 9-1870-1	Care and Maintenance of Pneumatic Tires
TM 38-750	The Army Maintenance Management Systems
TM 5-3431-221-15	Department of the Army, Operator, Organizational, Direct and General Support, and Depot Maintenance Manual, for Welding Machine
TM 5-2805-259-14	Department of the Army, Operator Organizational, Direct and General Support Maintenance Manual, for Engine, Gasoline
TM 9-2330-202-14P	Department of the Army, Operator, Organizational and Field Maintenance Instructions, Repair Parts and Special Tools Lists, for Chassis, Trailer
TM 5-2805-259-24P	Department of the Army, Organizational, Direct and General Support Maintenance Repair Parts and Special Tools Lists, for Engine, Gasoline
TM 5-3431-221-25P	Department of the Army, Organizational, Direct and General Support and Depot Maintenance Repair Parts and Special Tools Lists, for Welding Machine
SC 3431-97-CL-E03	Sets, Kits and Outfits Components List, for Welding Shop, Trailer Mounted
TM 9-6140-200-15	Operation and Organizational, Field, and Depot Maintenance: Storage Batteries, Lead Acid Type
T M 5 - 764	Electric Motor and Generator Repair
A-6. Shipment and Storage	
TB 740-97-2	Preservation of USAMEC Mechanical Equipment for Shipment and Storage
TM 740-90-1	Administrative Storage of Equipment
A-7. Destruction to Prevent Enemy Use	
TM 750-244-3	Procedures for Destruction of Equipment to Prevent Enemy Use

APPENDIX B

Section I. INTRODUCTION

B-1. General

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

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

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

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

B-2. Explanation of Columns in Section II

a. Group Number, Column (1). The assembly group number is a numerical group assigned to each assembly. The assembly groups are listed on the MAC in disassembly sequence beginning with the first assembly removed in a top down disassembly sequence.

b. Assembly Group, Column (2). This column contains a brief description of the components of each assembly group.

c. Maintenance Functions, Column (3). This column lists the maintenance functions (A through K). The upper case letter placed in the appropriate column indicates the lowest maintenance level authorized to perform these functions. The symbol designations for the various maintenance levels are as follows:

C-Operator or crew O-Organizational maintenance F-Direct support maintenance

The maintenance functions are defined as follows:

- A-Inspect. To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.
- B-Test. To verify serviceability and to detect electrical or mechanical failure by use of test equipment.
- C-Service. To clean, to preserve, to charge, and to add fuel, lubricants, cooling agents, and air. (If it is desired that elements, such as painting and

lubricating, be defined separately, they may be so listed.)

- D-Adjust. To rectify to the extent necessary to bring into proper operating range.
- E-Align. To adjust specified variable elements of an item to bring to optimum performance.
- F-Calibrate. To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement. Consists of the comparison of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared with the certified standard.
- G-Install. To set up for use in an operational environment such as an emplacement, site, or vehicle.
- H-Replace. To replace unserviceable items with serviceable like items.
- I-Repair. Those maintenance operations necessary to restore an item to serviceable condition through correction of material damage or a specific failure. Repair may be accomplished at each level of maintenance.
- J-Overhaul. Normally, the highest degree of maintenance performed by the Army in order to minimize time work is in process consistent with quality and economy of operation. It consists of that maintenance necessary to restore an item to completely serviceable condition as prescribed by maintenance standards in technical publications for each item of equipment. Overhaul normally does not return an item to like new, zero mileage, or zero hour condition.
- K-Rebuild. The highest degree of materiel maintenance. It consists of restoring equipment as nearly as possible to new condition in accordance with original manufacturing standards. Rebuild is performed only when required by operational considerations or other paramount factors and then onIy at the depot maintenance level. Rebuild reduces to zero the hours or miles the equipment, or component thereof, has been in use.

d. Tools and Equipment, Column (4). This column is provided for referencing by code the

special tools and test equipment (sec. III), required to perform the maintenance functions (sec. II).

e. Remarks, Column (5). This column is provided for referencing by code the remarks (sec. IV) pertinent to the maintenance functions.

B-3. Explanation of Columns in Section III

a. Reference Code. This column consists of a number and a letter separated by a dash. The number references the T & TE requirements listed in section II. The letter represents the specific maintenance function the item is to be used with in columns A through K of section II.

b. Maintenance Level. This column shows the lowest level of maintenance authorized to use the special tool or test equipment.

c. Nomenclature. This column lists the name or identification of the tool or test equipment,

d. Tool Number. This column lists the manufacturer's code and part number, or Federal stock number of tool or test equipment.

B-4. Explanation of Columns in Section IV

a. Reference Code. This column consists of two letters separated by a dash (entered from col. (5) of sec. II). The first letter references alpha sequence in column (5) and the second letter references a maintenance function, column (3), A through K.

b. Remarks. This column lists information pertinent to the maintenance function to be performed (as indicated in sec. II).

Section II. MAINTENANCE ALLOCATION CHART

(1)	(2) Assembly group				1	Mainte	(3) enance	functi	ons				(4) Tools and equipment	(5) Remark
Group No.		A	в	с	D	Е	F	G	н	I	J	к		
ē		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild		
01	WELDING SHOP Welding Machine, Arc Body, Trailer Chassis, Trailer	C C C						•••	F F F	0				a ng tan karan T
02	WELDING SET, INERT GAS SHIELDED Welding Gun Motor Switch, Trigger and inching Cable assembly, control	 C C	0 0	• • • •				•••	O F F	O F	F			
	Cable assembly, current	C C C O	0 F	 C O	•••	 		· · · · · · ·	0 0 0 0 F	0 		•••	· · · · · · · · · · · · ·	A-C B-C
	Capacitor Swing arm assembly Handle assembly Tube, guide Roll, drive Control Monitor	0 C	· · · · · · · · · · · · · · · · · · ·	 C C O	.: .: .: .: .: .: .: .: .:	•••	· · · · · · ·	· · ·	F O F C O O		 F] :.	· · · · · · · · · · · · · · · · · · ·	D-C
	Capacitor Receptacles Terminal strip Resistors, fixed Resistors, adjustable Rheostat	0 0 	0 0 0 0 0	· · · · · · ·	· · · · · · · O C	· · · · · · ·	· · · · · · ·	· · · · · · · ·	0 0 0 0 0 0					
	Rectifier Fuses Relays Switch, line	C	0 0 0	· · · · ·			•••	· · · · · · · ·	0 C 0 0					
03	MISCELLANEOUS COMPONENTS Boxes, Tool Reflectors, Clearance	C C				•••			0 0	, o				

Section III. SPECIAL TOOL AND SPECIAL TEST EQUIPMENT REQUIREMENTS

Category	Nomenclature	Tool number
	No special tools or test equipment required.	
	Category	

Section IV. REMARKS

Reference Code	Remarks
A-C	Remove weld spatter and other obstructions with pen knife or similar instrument.
B-C	Remove white residue from gas holes by direct spray of high pressure air stream.
C-C	Remove burrs and obstructions.
D-C	Clean serrated surface with stiff bristle brush.
E-C	Remove dust and dirt with clean, dry air stream.

APPENDIX C

BASIC ISSUE ITEMS AND TROOP INSTALLED

OR AUTHORIZED LIST AND ORGANIZATIONAL AND

DIRECT SUPPORT MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

C-l. Scope

a. This appendix lists basic issue items, items troop installed or authorized, repair parts, and special tools required by the crew / operator for operation and required for the performance of organizational, and direct support maintenance of the welding shop.

b. Repair parts listed represent those authorized for use at indicated maintenance levels and will be requisitioned (on an "as required" basis until stock age is justified by demand in accordance with AR 735-35 or AR 710-2).

C-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 Item List - Section II. (Not Applicable)

b. Items Troop installed or Authorized List -Section III. A list, in alphabetical sequence, of items which, at the discretion of the unit commander, may accompany the end item, but are not subject to be turned in with the end item.

c. Prescribed Load Allowance-Section IV. (Not Applicable)

d. Repair Parts - Section V. A list, in figure and item number sequence, of repair parts authorized at the organizational level for the performance of maintenance, including those items which must be removed for replacement of the authorized item. Items, except kits and sets, are listed by assembly group in top down breakdown sequence. There are no repair parts kits or sets listed in this appendix.

e. Special tools List - Section VI. (Not Applicable)

f. Repair Parts List - Section VII. A list, in figure and item number sequence, of the repair parts authorized for the performance of maintenance at the direct support level, including those items which must be removed for replacement of the authorized item. Items. except kits and sets, are listed by assembly group in top down breakdown sequence. There are no repair parts kits or sets in this appendix.

g. Special Tools List—Section VIII. (Not Applicable)

h. Federal Stock Number and Reference Number Index - Section IX. A list of Federal Stock Numbers in ascending numerical sequence, followed by a list of reference numbers appearing in all listings, in ascending alpha-numeric sequence, cross-referenced to the illustration figure and item number.

NOTE

Items not illustrated are cross-referenced to assembly group number.

C-3. Explanation of Columns

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

a. Source, Maintenance, and Recoverability Codes (SMR).

(1) Source code indicates the source for the listed items. Source Codes are:

Code Explanation

Р

М

Α

- Repair parts, Special Tools and Test Equipment supplied from the GSA/DSA, or Army supply system and authorized for use at indicated maintenance categories.
- P2 Repair parts, Special Tools and Test Equipment which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.
 - Repair parts, Special Tools and Test Equipment which are not procured or stocked, as such, in the supply system but are to be manufactured at indicated maintenance levels.
 - Assemblies which are not procured or stocked as such, but are made up of two or more units. Such component units carry individual stock numbers and descriptions, are procured and stocked separately and can be assembled to form the required assembly at indicated maintenance categories.

C o d e

Х

XT

X2

Explanation

- Parts and assemblies that are not procured or stocked because tile failure rate is normally below that of the applicable end item or component. The failure of such part of assembly should result in retirement of the end item from the supply system.
- Repair parts which are not procured or stocked. The requirement for such items will be filled by use of the next higher assembly or component.
 - Repair parts, Special Tools and Test Equipment which are not stocked and have no foreseen mortality. The indicated maintenance category requiring such repair parts will attempt to obtain the parts through cannibalization or salvage, if not obtainable through cannibalization or salvage, the item may be requisitioned with exception data, from the end item manager, for immediate use.
 - Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DS and GS level or returned to depot supply level.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded X1 and aircraft support items as restricted by AR 700-42.

(2) Maintenance code indicates the lowest level of maintenance authorized to install the listed item. Repair parts and special tools assigned Maintenance Code "C" may be stocked at the operator level of maintenance when authorized by the Unit Commander. The maintenance level codes are:

Code	Explanation											
С	Crew or Operator maintenance											
0	Organizational maintenance											
F	Direct Support maintenance											

(3) Recoverability code indicates whether unserviceable items should be returned for recovery or salvage. items not coded are expendable. Recoverability codes are:

Code

R

Explanation

- Applied to Repair parts, (assemblies and components) Special Tools and Test Equipment which are considered economically reparable at direct and general support maintenance levels. When the item is no longer economically repairable, it is normally disposed of at the GS level. When supply considerations dictate, some If these repair parts may be listed for automatic return to supply for depot level repair as set forth in AR 710.50. When so listed, they will be replaced by supply on an exchange basis.
- replaced by supply on an exchange basis. S Repart parts. Special Tools, Test Equipment and assemblies which are economically reparable at DSU and GSU activities and which normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically reparable. they will be

evacuated to a depot for evaluation and analysis before final disposition.

- High dollar value recoverable Repair parts. Special Tools and Test Equipment which are subject to special handling and are issued on an cxchange basis. Such items will be evacuated to the depot for overhaul or final disposition. Communication-Electronics and Mlissile Support items will be repaired / overhauled only at depots.
- U

т

Repair parts, Special Tools and Test Equipment specifically selected for salvage by reclamation units because of precious metal content, critical materials. high dollar value or reusable casings or castings.

b. Federal Stock Number. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. Description. This column indicates the Federal item name and a minimum characteristic description required to describe the item. Assembly components and subassemblies are indented under major assemblies. The abbreviation "w / e" when used as part of the nomenclature, indicates the Federal stock number, includes all armament, equipment, accessories, and repair parts issued with the item. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parenthesis. Repair parts quantities included in kits and sets are shown in front of the repair part name. Material required for manufacture or fabrication is identified.

d. Unit of Measure (U / M). A two-character alphabetic abbreviation indicating the amount or quantity of the item, as used, upon which the allowances are based, e.g., ft., ea., pr., etc.

e. Quantity Furnished with Equipment (Basic Issue Items Only). Indicates the quantity of the item furnished with the equipment.

f. Quantity Authorized (Items Troop Installed or Authorized Only). Indicates the quantity of the item authorized to be used with the equipment.

g. Quantity Incorporated in Unit. Indicates the quantity of the item used in the assembly group. A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated, (e.g., shims, spacers, etc.).

h. Fifteen-Day Organizational Maintenance.

(1) Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The allowance columns are divided into four subcolumns. Indicated in each subcolumn is the total quantity of special tools authorized for the number of equipments supported.

i. Thirty-Day DS Maintenance Allowance.

(1) Items authorized for use as required but

not for initial stockage are identified with an asterisk in the allowance column.

(2) The allowance columns are divided into three subcolumns. The quantitative allowance of special tools for DS level of maintenance will represent initial stockage for a 30-day period for the number of equipments supported. When special tools are not required, enter statement "Not Applicable".

j. One-Year Allowances Per 100 Equipment/Contingency Planning Purposes.

(1) Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) This column indicates the total quantity of special tools required for distribution and contingency planning purposes.

k. Depot Maintenance Allowance Per 100 Equipment. (Not Applicable)

l. Illustration. This column is divided as follows:

(1) Figure number. Indicates the figure nomber of the illustration on which the item is shown.

(2) Item number. Indicates the callout number used to reference the item on the illustration.

C-4. Special Information

a. Parts which require manufacture or assembly of a maintenance level higher than that authorized for installation will indicate column the higher maintenance level.

b. The same illustrations are used to illustrate the repair parts and special tools listed in both organizational maintenance section and direct support maintenance section.

C-5. How to Locate Repair Parts

a. When the Federal Stock Number or Reference Number is Unknown:

(1) *First.* Using the table of contents, determine the assembly group within which the repair part belongs. This is necessary since illustrations are prepared for assembly groups, and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the assembly 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 assembly group to which the repair part belongs and locate the illustration figure and item number noted on the illustration.

b. When the 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 alpha-numeric sequence, cross-referenced to the illustration figure number and item number.

(2) Second. Using the Repair parts listing, find the assembly group of the repair part and the illustration figure number and item number referenced in the index of Federal Stock Numbers and Reference Numbers.

c. When the Federal Stock Number or Reference Number is Known and the Repair Part is Not Illustrated:

(1) *First.* Using the index of Federal Stock Numbers and Reference Numbers find the pertinent Federal stock number or reference number in the section titled "Items Not Illustrated" and note the group number. This section is in ascending FSN sequence followed by a list of reference numbers in alpha-numeric sequence crossreferenced to assembly group number.

(2) Second. Using the Table of Contents, locate the assembly group number and page number.

(3) *Third.* Using the applicable group number and page number, locate the pertinent stock number or reference number in the Repair Parts Listing.

C-6. Abbreviations

dia	diameter
ea	each
FSN	Federal Stock Number
hd	head
id	inside diameter
in	inch(es)
lg	
mtg	0 0
no	e e e e e e e e e e e e e e e e e e e
od	
thd	
thk	
V	

C-7. Recommendations for Maintenance Publications Improvements

Report of errors, omissions, and recommendations for improving this publication by the user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

Section II. BASIC ISSUE ITEMS

(1) SMR code	(2) Federal stock number	(3) Description Ref No. & Mfr Code	Usable on code	(4) Unit of meas	(5) Qty inc in unit	(6) Qty furn with equip	7) ration (B) Item No.
		(NOT APPLICABLE)					

Section III. ITEMS TROOP INSTALLED OR AUTHORIZED LIST

(1) SMR code	(2) Federal stock number	(3) Description Ref No. & Mfr Code	Usable on code	(4) Unit of meas	(5) Qty auth
РС	7520-559-9618	Case. Maintenance and Operational Manual		ΕA	1 /

Section IV. PRESCRIBED LOAD ALLOWANCE

(1) Federal stock	(2) Description				(3) rganization: enance alw	al
number		Usable on code	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100
	(NOT APPLICABLE)					

(1) SMR	(2) FEDERAL STOCK		(4) UNIT	(5) QTY INC		6 AY ORGA AINTEN	NIZAT		IL.	(7) LUS- ATION
CODE	NUMBER	USABLE ON REF NUMBER & MFR CODE CODE	OF VEA:	IN UNIT	(a) 1-5	(Ь) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) ITEM NO.
		SECTION V - REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE								
		GROUP 01 - WELDING SHOP								
X20		SHACKLE, ANCHOR: LIFTING AND TIE DOWN RRC27ITYPEIVCLASS4 (36024)	EI	λį					C1	1
ΡO	5305-269-3214	SCREW, CAP, HEXAGON HEAD: CYL INDER STOP MTG, 3/8-16 THD SIZE, 1 1/2 IN. LG MS90725-64 (96906)	EJ	λţ	*	¥	*	*	C1	2
ΡO	5310-184-8971	WASHER, LOCK: CYL I NDER STOP MTG, 3/8 IN. SCREW SIZE MS35338-103 (96906)	E/	ЪĻ	*	*	*	*	C1	3
X20		PLATE, NUT; CYL I NDER STOP MTG 13217E3316 (97403)	EA	2					C1	4
X2 0		STOP, CYL INDER 13217E3315 (97403)	E A	2					C1	5
ΡQ	5310-959-7600	NUT, SELF-LOCKING, HEXAGON: U-BOLT MTG, 1/4-18 THD SIZE MS51922-5 (96906)	EA	ył	*	*	*	*	C1	6
ΡO		BOLT, 14. GROUND ROD MTG, 1/4-28 THD SIZE NAS3104-6-10 (24062)	E/	2	*	*	*	*	C1	7
PO	5315-839-5821	PIN, COTTER; GAS BOTTLE HOLD-DOWN CLEVIS PIN, 1/81N.DIA3/4 IN.LG MS24665-351 (96906)	EA	2	*	*	*	*	C1	27
x2 0		PIN, STRAIGHT, HEADED: GAS BOTTLE HOLD-DOWN CLEVIS, 1/2 IN. JUA, 1 27/64 IN. LG MS35810-36 (96906)	٤J	2					C1	28
X 20		CLEVIS, ROD END: GAS BOTTLE HOLD-DOWN 13217E3324 (97403)	EA	2					CI	29
ΡO	5310-768-0318	NUT, PLAIN, HEXAGON; GAS BOTTLE HOLD-DOWN LOAD BI NDER EYE BOLT, 1/2-13THD SI ZE MS51967-14 (96906)	EA	2	*	*	*	*	C1	30
X20		BOLT, EYE, TURNBUCKLE: GAS BOTTLE HOLD-DOWN LOAD BINDER 13216E7335 (97403)	EA	2					C1	31
X 20		LOAD BINDER: GAS BOTTLE HOLD-DOWN 13216E7326 (97403)	E.A	2					C1	32
мо	401 0-160-8563	CHAIN: GAS BOTTLE HOLD-DOWN MANUFACTURE FROM:	E/	4					CI	33
ΡO	4010-161-8563	CHAIN, 12 LINKS REQUIRED			*	*	*	*	C1	33
PO	5315-839-5821	PIN, COTTER: GAS BOTTLE HOLD-DOWN CLEVIS PIN, 1/8 IN. DIA, 3/4 IN. LG MS24665-351 (96906)	EA	3	*	*	*	*	C1	34
		PIN, STRAIGHT, HEADED: GAS BOTTLE HOLD-DOWN CLEVIS, 1/2 IN. 01A,1 27/64 IN. LG MS35810-36 (96906)	EA	3					C1	35
X20		CLEVIS, ROD, END: GAS BOTTLE HOLD-DOWN 13217 E3324 (97403)	EA	3					C1	36
PO	5310-768-0318	NUT, PLAIN, HEXAGON; GAS BOTTLE HOLO-DOWN LOAD B INDER EYE BOLT, 1/2-13 THO SIZE MS51967-14 (96906)	EA	3	*	*	*	*	C1	37

(1)	(2)	(3)	6	4)	i		(6)		1	
SN COI	FEDERAL STOCK	DESCRIPTION	, N		15-	DAY OR MAINTE	GANIZA	TIO)	T	(7) ILLUS- RATION
	NUMBER		0 IE	F	((b)	(c)		(a) FIG) (b)
X20		LINK, END, LAP: GAS BOTTLE HOLD-DOWN, 1/4 IN. RRC271TYPE III (97403)	-	E,	1	6-20	21-5	C <u>51</u>	NC C	NO NO
X 20		BOLT, EYE, TURNBUCKLE : GAS BOTTLE HOLD-DOWN LOAD B INDER 1321 6E7335 (97403)	E	EJ					c	1 39
мо	4010-161-856	CHAIN: GAS BOTTLE HOLD-D('"I MANUFACTURE FROM:	E	-					C.	1 40
ΡO	1010-161-856	CHAIN, 22 L INKS REQUIRED								
X 20		LOAD B INDER: GAS BOTTLE HOLD-DOWN 13216E7326 (97403)	E	A		~			C1 C1	
мо		CHAIN: GAS BOTTLE HOLD-DOWN MANUFACTURE FROM:	E	A					C1	42
ΡO	010-161-856	CHAIN, 3 LINKS REQUIRED							C1	42
		GROUP 02. WELDING SET, INERT GAS SHIELDED								
P20	+31 - 935-7822	WELDING SE7, WFRET GAS SHIELDED SP10 (88725)	E	A			+		Ci	1
P20	¥31-160-78	GUN, WELDING: METAL INERT GAS 321 B107G08 (08452)	5	4					Ci	2
P20		BOLT, REEL COVER 419A029H01 (08452)	5				¥		24	٩
P 20	} 30-762-22 5	PACK I NG, PREFORMED: REEL COVER BOLT MS29513-008 (96906)	:A				¥		X	à,
ΡO	31-875-765	COVER, REEL 6370247H01 (08452)				4	*	4	:2	5
ΡO	05-984-567	SCREW, MACH INE: REEL SHAFT MTG, PAN HEAD, CROSS RECESS, 5/16-18 THD-SLZF, 3/4 IN. LG MS35206-296 (96906)	•			4	+	•	2	6
ΡO	3431-164-266	SHAFT, REEL 448a024H01 (08452)				,	*		2	7
PO	5310-167-082	WASHER, FLAT: REEL SHAFT MTG, 0.0328 IN. ID, 0.562 IN. 0D, 0.064 IN. THK AN960-516 (88044)	•		4	٠	¥		2	8
°0	<u>305-958-305</u> 0	SCREW, TAPPING, THREAD CUTTING: BRAKE SUPPORT MTG, NO. 6-32 THD SIZE, 3/8 IN. LG MS24649-24 (96906)			•	٠	*	*	C2	9
,0	;310-045-4007	WASHER, LOCK: BRAKE SUPPORT MTG, NO. 6 SCREW SIZE MS35338-41 (96906)	1			*	*	•	:2	10
' 0	310-167-0816	WASHER, FLAT: BRAKE SUPPORT MTG. NO. 6 SCREW SIZE AN960-6 (88044)	EA		*	*	*	*	:2	11
0	¥31 - 875-7651	SUPPORT, BRAKE 419A008H01 (08452)		1	*	*	*	*	2	12
0	431-446-2643	BRAKE 419A01 1H01 (08452)	:A	1	*	*	*	*	2	13
0		KNOB_ RHEOSTAT 451 A240H01 (08452)	:4	1	*	*	*	*	2	14
0	305 - 958 -0 670	SCREW, MACHINE: WELDING GUN SHIELD MTG, PAN HEAD SLOTTED, NO. 8-36 THD SIZE, 2 3/4 IN. LG MS35224-56 (96906)	•	3	*	•	*	*	2	15
	l									

{1}	(2)	-	(4)	(5)	150	(6				(7) LUS-
SMR CODE	FEDERAL STOCK	DESCRIPTION	UNIT OF	QTY INC	м.	AINTEN				TION
	NUMBER	USABLE ON REF NUMBER & MFR CODE CODE	MEAS	IN UNIT	(a) 1-5	6-20	21-50		FIG. NO.	(b) ITEM NO.
X20		SHIELD, POTENTIOMETER 4834753H01 (08452)	EA	1					C2	16
P 0 0	3431-162-3978	CABLE ASSEMRIY, CURRENT 31081 42006 (08452)	EA	1	*	*	*	*	C2	18
ΡO		HOSE ASSEMELY, GAS 432C506G06 (08452)	EA	1	*	*	*	*	C2	19
X20		BOOT: CURRENT CABLE AND GAS HOSE 419A046H01 (08452)	EA	1					C2	20
PO	5325-281-3536	BUSHING, RUBBER: CURRENT CABLE THROUGH WELDING GUN SHIELD 282498 (08452)	EA	1	*	*	*	*	C2	21
X2 0		SHIELD ASSEMBLY: WELDING GUN 8670652001 (08452)	EA	1					C2	22
X20		SCREW, LOCK, GU IDE TUBE 422A505GOI (08452)	ËA	1	•				C2	23
ΡÖ	3431-997-2291	TUBE, GUIDE, WIRE: 0.030 IN. WIRE DIA 3068172H03 (08452)	EA	1	*	*	*	*	C2	24
ΡO	3431-446-2644	TUBE, GUIDE, WIRE: 0.047 IN. WIRE DIA 3068172109 (08452)	EA	1	*	*	*	*	C2	24
ΡÖ	3431-928-2519	NOZZLE, GAS 31116703103 (08452)	EA	1	*	*	*	*	C2	25
220	3431-875-7930	ADAPTOR: GUN TUBE TO NOZZLE 419A003H01 (08452)	EA	1	• *	*	*	*	cz	26
° 0	3431-875-7638	WASHER, INSULATING: BARREL TO ADAPTOR 419A006H02 (08452)	EA	1	*	*	*	*	C2	27
ΡO	3431-875-7637	WASHER, I NSULAT I NG: BARREL TO ADAPTOR \$19A006H01 (08452)	EA	1	*	*	*	*	C2	28
P 0	5305-582-5807	SCREW, MACHINE: GUN BARREL HOUSING MTG, NO. 6-32 THD SIZE, 3/8 IN. LG MS35265-28 (96906)	EA	4	*	*	*	*	C2	29
(20		HOUSING, GUN BARREL 453A483H01 (08452)	EA	1					C2	30
x 20		INSULATION, GUN BARREL 419A005H02 (08452)	EA	1					C2	31
X 20		INSULATION: GUN BARREL 419A010H01 (08452)	EA	1		х.			C2	32
K 20		GUN BARREL ASSEMBLY 419A002G02 (08452)	EA	1	с С				cz	33
° 0	3431-875-7637	WASHER, INSULATING: BARREL TO BRACKET ASSEMBLY 419A006H01 (08452)	EA	1	* *	*	*	*	C2	34
° 0	3431-162-3977	BUSH I NG, FRONT GUIDE 2209A70H01 (08452)	EA	1	*	*	*	*	C2	35
• 0	5305-719-5336	SETSCREW; REAR GU IDE BUSHI NG MTG, HEADLESS SOCKET DR I VE, CUP POINT, NO. 8-32 THD SIZE, 1/8 IN. LG MS51963-33 (96906)	EA	.1	,	*	*	*	C2	36
7 20		RING, RETAINING: REAR GUIDE BUSHING 5209290H01 (08452)	EA	1	*	*	*	*	C2	37

(1)	(2)	(3)	(4)	(5)	15.07					(7)
SMR CODE	FEDERAL STOCK	DESCRIPTION	UNIT OF	QTY INC	M,	AY ORG	ANCE A	ALW.	TR.	LUS- ATION
CODE	NUMBER	USABLE ON REF NUMBER & MFR CODE CODE	MEAS	IN UNIT	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG. NO.	(b) ITEM NO.
P20		BUSHING, REAR GUIDE 488A441H01 (08452)	EA	1	*	*	*	*	C2	38
X20		FITTING: GAS HOSE MTG 419A043H01 (08452)	EA	1					C2	39
P20		PIN: BRACKET AND FITTING ASSEMBLY 452A107H01 (08452)	EA	1	*	*	*	*	C2	40
×20		PLUG, PIPE: BRACKET AND FITTING ASSEMBLY 453A757H01 (08452)	EA	1					C2	41
> 0		SPRING: BRACKET AND FITTING ASSEMBLY 452 A106H01 (08452)	EA	1	*	*	*	*	C2	42
P20		BEARING, BALL: BRACKET AND FITTING ASSEMBLY 452A108H01 (08452)	EA	1	*	*	*	*	C2	43
° 0	5330-641 -0 693	PACKING, PREFORMED: BRACKET AND FITTING ASSEMBLY 442A161H04 (08452)	EA	1	*	*	¥	*	C2	44
ΡO	5305-958-4361	SCREW, MACHINE; BRACKET AND FITTING ASSEMBLY MTG, NO. 8-36 THD SIZE. 1 1/2 IN. LG MS35207-251 (96906)	EA	1	*	*	*	*	C2	45
> 0	5305-719-5336	SETSCREW: BRACKET AND FITTING ASSEMBLY, HEADLESS, SOCKET DRIVE, CUP POINT, NO. 8-32 THD SIZE, 1/8 IN. LG MS51963-33 (96906)	EA	1	*	*	+	*	C2	46
° 0	5305-989-7435	SCREW, MACHINE: BEARING ARM MTG, PAN HEAD, CROSS RECESS, NO. 10-32 THD SIZE, 5/8 IN. LG MS35207-264 (96906)	EA	1	*	*	*	*	C2	47
' 20	3431-875-7646	SCREW, NYLON: BEARING ARM IDLER ROLLMTG 442A169H01 (08452)	EA	1	*	*	*	*	C2	48
(20		WASHER, I NSULATI ON: BE ARING ARM IDLER ROLL MTG 310B141H04 (08452)	EA	2					C2	49
° 0	3431-875-7645	ROLL, IDLER, INSULATED: BEARING ARM 5570415H39 (08452)	EA	1	*	*	*	*	C2	50
20	5330 - 762-2299	PACKING, PREFORMED: BEARING ARM BOLT MS29513-008(96906)	EA	1	*	*	*	*	C2	51
(20		BOLT, BEAR ING ARM 419A025H01 (08452)	EA	1					C2	52
, 0	4935-875-7648	SPR I NG: BEARI NG ARM BOLT 419A027H01 (08452)	EA	1	*	*	*	*	C2	53
20	3431-164-2665	ARM, BEAR ING 419A026H02 (08452)	EA	1	*	*	*	*	C2	54
20		BRACKET AND F 1 TT I NG ASSEMBLY 427C605G08 (08452)	EA	1					C2	55
20		FITTING ASSEMBLY 427C605GC4 (08452)	EA	1					C2	56
' 0	5305-582-5807	SCREW, MACH INE; WELDING GUN HANDLE MTG, NO. 6-32 THD SIZE, 3/8 IN. LG MS35265-28 (96906)	EA	1	*	*	*	*	C2	57
0	5305-582-5808	SCREW, MACH INE: WELDING GUN HANDLE MTG, NO. 6-32 THD SIZE, 5/8 IN. LG MS35265-31 (96906)	EA	1	*	*	*	*	С2	58

(1)	(2)	(3)		(5)	-04)	(6) (6)	JI 7 A T I C	NAL	(7 1_1	') .US+
5MR	FEDERAL STOCK	DESCRIPTION	r	NC					TRA	
:ODE	NUMBER	USABLE ON REF NUMBER & MFR CODE CODE	.5	N NIT	5	20	1-50	1-100	1G. 10.	ITEM NO.
0	305-51¥-7506	SCREW, MACHINE: WELDING GUN HANDLE MTG, NO. 6-32 THD SIZE, 1/4 IN. LG MS35265-26 (96906)	•	1	*	*	*	*	ĈŹ	59
30		CONTROL, WELDING 4798043G01 (08452)	•	1					cŝ	1
0	5305-855-0971	SCREW, SELF-TAPP I NG, THREAD CUTT I NG; TOP PLATE TO WELD I NG CONTROL MTG, NO. 6-32 THD SIZE, 3/16 IN. LG MS24649-21 (96906)		4	*	*	*	*	3	2
20		PLATE, TOP: WELD ING CONTROL 8670749604 (08452)	A.	1					3	3
° 0	5305-855-0971	SCREW, SELF-TAPPING, THREAD CUTT I NG: BACK PLATE TO WELDING CONTROL MTG, NO. 6-32 THD SIZE, 3/16 IN. LG MS24649-21 (96906)	EV.	6	4	*	-11	*	3) 4
20		РГЧАТЕ, ВАСК 8670749н05 (08452)	54	1					-3	5
0	5305-855-0971	SCREW, SELF-TAPPI NG, THREAD CUTTING: FRONT BOTTOM PLATE TO WELDING CONTROL MTG, NO, 6-32 THD SIZE, 3/16 IN. LG MS24649-21 (96906)	E)	4		*		*	:3	6
20		PLATE, FRONT, BOTTOM 8670749H06 (08452)	EV.	1					:3	7
۰ o	593 0- 577 - 2285	SW1 TCH, RANGE MS35059-23 (96906)	Eı	1	4	4	4	*	:3	8
' O	5930-655-1575	SWITCH, POWER MS35059-22 (96906)	E'	1	4	4	4	*	-3	9
° 0	6210-165-148	LAMP ASSEMBLY: WELDI NG CONTROL 422A547H05 (08452)	E			4	4	*	63	10
° 0	62 40- 223-910(LAMP, I NCANDESCENT GEB1A (08805)	E			4	+	*	63	11
P 0	53 05- 855-095i	SCREW, SE LF-TAPP ING, THREAD CUTTI NG: FRONT TOP PLATE TO WELD ING CONTROL MTG, NO. 10-24 THD SIZE, 3/8 IN. LG MS24629-45 (96906)	E					*	C:	12
K20		PLATE, FRONT, TOP 8670749H07 (08452)	E						C.	13
X20	5920-556-014	HOLDER, FUSE 342004 (75915)	E						C	14
РО	5920-843-807	FUSE: 4 AMP, 250V MS15249-4 (96906)	E					*	C	15
ΡO		FUSE: 1 AMP, 250V MS15249-1 (96906)	E					*	C;	16
ΡQ		NUT, PLAIN, HEXAGON: TRANSFORMER MTG, NO. 10-32 THD SIZE MS35650-102 (96906)	E					*	C)	17
ΡO	5310-045-329	WASHER, LOCK : TRANSFORMER MTG, NO. 10 SCREW SIZE MS35338-43 (96906)	E					*	C'	18
PO		SCREW, MACH I NE : TRANSFORMER MTG, NO. 10-32 THD SIZE, 1/2 IN. LG MS35224-63 (96906)	E					*	C	15
ΡO	595 0-1 56-069	TRANSFORMER: WELD ING CONTROL 488A250H01 (08452)	1					*	C	2(
								_		

(1)	(2)	(3)	(4)	(5)		(4				(7)
SMR	FEDERAL STOCK	DESCRIPTION	NE	QTY INC		AY ORG. AINTEN			TR	LUS-
CODE	NUMBER	USABLE ON REF NUMBER & MFR CODE CODE	OF EA		(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-10	(a) FIG NO	(b) ITEM NO.
PO	5310 - 013- ¹ 530	NUT, PLAIN, HEXAGON: WELDING CONTROL RESISTOR MTG, No. 6-32 THD SIZE MS35649-62 (96906)	E,	ł	1		•	*	c	21
PO	5310-045-4007	WASHER, LOCK: WELDING CONTROL RESISTOR MTG, NO. 6 SCREW SIZE MS35338-41 (96906)	EJ	ł	4	*	4	*	c <u>:</u>	22
ΡO		SCREW, MACHINE: WELDING CONTROL RESI STOR MTG, NO. 6-32 THD SIZE, 3/8 IN. LG MS35223-28 (96906)	E/)ų	4	*	*	*	C:	23
ΡO	59 05-161- 3446	RESISTOR: WELDING CONTROL 463A462H06 (08452)	E/	2	¥	*	*	*	C <u>i</u>	24
X20		RECTIFIER: WELDING CONTROL 429A062H01 (08452)	E/	1					c;	25
ΡO	5305 - 855-0971	SCREW, SELF-TAPPING, THREAD CUTTING: WELDING CONTROL RECEPTACLE MTG, NO. 6-32 THD SIZE, 3/16 IN. LG MS24649-21 (96906)	E/	ł	•	*	-	÷	C(26
X20		RECEPTACLE: WELDING CONTROL 483A891H01 (08452)	E/	1					с <u>:</u>	27
ΡO	j310 - 013-4530	NUT, PLAIN, HEXAGON: WELDING CONTROL RELAY MTG, NO. 6-32 THD SIZE MS35649-62 (96906)	E/	2	4	*	*	*	C:	28
ΡO	i310-045-4007	WASHER, LOCK: WELDING CONTROL RELAY MTG, NO. 6 SCREW SIZE MS35338-41 (96906)	EA	2	*	*	*	*	C3	29
ΡO		SCREW, MACHINE: WELDING CONTROL RELAY MTG, NO. 6-32 THD SIZE, 3/8 IN. LG MS35223-28 (96906)	E4	2	4	*	*	*	C <u>1</u>	30
°20		RELAY: WELDING CONTROL 480809H03 (08452)	EA	1	*	*	*	*	C3	31
۰ ۰	:310 - 013-4530	NUT, PLAIN, HEXAGON: WELD I NG CONTROL TERM I NAL BLOCK MTG, NO. 6-32 THD SIZE MS35649-62 (96906)	EA	2	*	*	*	¥	C3	32
ΡO	;310-045-4007	WASHER, LOCK: WELD I NG CONTROL TERMINAL BLOCK MTG, NO. 6 SCREW SIZE MS35338-41 (96906)	EA	2	*	*	*	*	C.	33
° 0	;3 05-5 43-2188	SCREW, MACH I NE: WELDING CONTROL TERM I NAL BLOCK MTG, NO. 6-32 THD SIZE, 3/4 I N. LG MS35223-32 (96906)	EA	2	*	*	*	*	C3	34
(20		BLOCK, TERM I NAL: WELD I NG CONTROL 32B1029H13 (08452)	EA	1					сз	35
° 0	905-163-3599	RESISTOR: WELDING CONTROL 450A297H06 (08452)	EA	2	*	*	*	*	сз	36
° 0	905-161-3445	RESISTOR: WELDING CONTROL 463A462H07 (08452)	EA	1	¥	*	*	*	c3	37
, 0	431-162-3974	CABLE ASSEMBLY; WELD I NG CONTROL 435C512G01 (08452)	EA	1	*	*	*	*	c3	38
° 0	431-162-3975	CABLE ASSEMBLY; WELD I NG CONTROL 21C8339GO7 (08452)	EA	1	*	*	*	*	C3	39
:20		BUSHING: WELDING CONTROL CABLE 427C613HO4 (08452)	EA	2					c3	40
				L						

(1)	(2)	(3)	(4)	(5)		(6	;}			(7)
SMR	FEDERAL STOCK	DESCRIPTION	NIT OF	QTY INC	M	AINTEN	ANCE A	L₩	TRA	LUS-
CODE	NUMBER	USABLE ON REF NUMBER & MFR CODE CODE	EA	IN JNIT	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(¤) ≓iG. NO.	(b) ITEM NO.
50		BUSH I NG: WELDI NG CONTROL BRACKET 282498 (08452)	E/	1		•			c3	41
0		NUT, PLAIN, HEXAGON: BRACKET MTG, NO. 10-32 THO MS35650-102 (96906) SIZE	E/	2	4	*	*	*	c3	42
0	i310 -04 5-3296	WASHER, LOCK: BRACKET MTG, NO. 10 SCREW SIZE MS35338-43 (96906)	EJ	2	*	*	*	*	c3	43
0		SCREW, MACH I NE; BRACKET MTG, NO. 10-32 THD SIZE, 1/2 IN. LG MS35224-63 (96906)	E4	2	H	*	*	*	c3	àрà
20		BRACKET: RECTIFIER, RELAY AND TERMINAL BLOCK MTG 8670749402 (08452)	E/	1					C3	45
0	·305 -855-095 8	SCREW, SELF-TAPPING, THREAD FORMING: BRACKET TO WELDING CONTROL BASE MTG, NO. 10-24 THD SIZE, 3/8 IN. LG MS24629-45 (96906)	EA	Ъ	-1	*	*	*	с3	46
<u>80</u>		BRACKET: WELDI NG CONTROL BASE 8670749403 (08452)	EA	1					c3	47
		GROUP 03 - MISCELLANEOUS COMPONENTS								
9	340-912-4088	ADLOCK SET: TOOL BOX MS21313-162 (96906)	EA	1	*	*	*	*	C)‡	1
0	310-088-1251	UT, SELF-LOCK I NG, HEXAGON: TOOL BOX MTG, 1/4-20 THD SIZE MS51922-1 (96906)	EA	6	*	*	*	*	c¥	2
0	310-809-4058	'ASHER, FLAT: TOOL BOX MTG, 1/4 IN. SCREW SIZE MS27183-10 (96906)	EA	6	*	*	*	*	c¥	3
0	305-071-2241	;CREW, CAP, HEXAGON HEAD: TOOL BOX MTG, 1/4-20 THD SIZE, 1 1/4 IN. LG MS90725-10 (96906)	EA	6	*	*	*	*	c¥	j‡
<u>'</u> O		LOOR, BOX: TOOL BOX, LH FENDER 13217E3322 (97403)	EA	1					C ³ 4	5
0		OX, TOOL: LH FENDER 13217E3313 (97403)	EA	1					c¥	6
o	310-088-1251	UT, SELF-LOCK ING, HEXAGON: TOOL BOX MTG, 1/4-20 THD S IZE MS51 922-1 (96906)	EA	12	*	*	*	*	C¥	7
0	310-809-4058	IASHER, FLAT: TOOL BOX MTG, 1/4 IN. SCREW SIZE MS27183-10 (96906)	EA	12	*	*	*	*	c¥	8
0	305-071-2241	CREW, CAP, HEXAGON HEAD: TOOL BOX MTG, 1/4-20 THD SIZE, 1 1/4 IN. LG MS90725-10 (96906)	EA	12	*	*	*	*	с¥	9
0		LOOR, BOX: TOOL BOX, FRONT 13217E3321 (97403)	EA	2					C¥	10
:0		OX, TOOL: FRONT 13217 E3312 (97403)	EA	2					C)‡	11
0	310-088-1251	UT, SELF-LOCK ING, HEXAGON: TOOL BOX MTG, 1/4-20 THD SIZE MS51922-1 (96906)	EA	8	*	*	*	*	C4	12
0	310-809 -40 58	ASHER, FLAT: TOOL BOX MTG, 1/4 IN. SCREW SIZE MS27183-10 (96906)	EA	8	*	*	*	*	С¥	13
					l	l	I ļ			I

(1)	(2)	(3)	(4	(5)		(6	1			(7)
	FEDERAL		(4			AY ORG	ANIZAT			US-
SMR COD-	STOCK	DESCRIPTION	INI OI	QT1 INC	(0)	AINTEN (b)	ANCE A	.L₩ (d)	T (a)	TION
	NUMBER		۱E ،	IN JNIT					÷i c	(b) ITE#
, 0	5305-071-224		E		1-5	6-20	21-5	51-10 #	NC C	NO.
))0)=0 1=224	SCREW, CAP, HEXAGON HEAD; TOOL BOX MTG, 1/4-20 THD S I ZE, 1 1/4 IN. LG MS90725-10 (96906)	Ē	Ĺ				*	U.	17
20		FLOOR , BOX: TOOL BOX, RH FENDER 13217 E3323 (97403)	٤	1					c;	15
:20		BOX, TOOL: RH FENDER 13217 E3314 (97403)	ε	1					c	16
' 0	i310-088-125 ⁻	NUT, SELF-LOCK I NG. HEXAGON: REFLECTOR MTG, 1/4-20 THD SIZE MS51 922-1 (96906)	£	8	4	4		*	c:	17
' 0	i305 - 068 -050	SCREW, CAP, HEXAGON HEAD: REFLECTOR MTG, 1/4-20 THD SIZE, 5/8 IN. LG MS90725-5 (96906)	E	3	*	4		*	cı	18
20	19 05-202- 3635	REFLECTOR, MBER MS35387-2 (96906)	E	4	4	4	4	*	C,	19
0	310-088-1251	NUT, SELF-LOCKING, HEXAGON: REFLECTOR MTG, 1/4-20 THD SIZE MS51 922-1 (96906)	Ε,	8	*	+	4	*	C3	20
0	305 - 068 -0 501	SCREW, CAP, HEXAGON HEAD; REFLECTOR MTG, 1/4-20 THD SIZE, 5/8 IN. LG MS90725-5 (96906)	ε	8	'n		4	*	C3	21
20	905-205-2795	REFLECTOR, RED MS35387-1 (96906)	E,)ą	*	41	4	*	C ³	22

(I)	(2)	(3)		(4)	(5)		(6)			(7)		(8)	(9)	()	0)
	FEDERAL	DESCRIPTION					AY DS N LLOWA			DAY GS N		1 YR	DEPOT	ILLU	35- TION
SMR CODE	FEDERAL STOCK				QTY	(a)	(b)	(c)	(a)	(b)	(c)	AL₩ PER	MAINT . ALW	(a)	(b)
	NUMBER		ABLE ON CODE	UNIT OF MEAS	INC IN UNIT	1-20	21-50	51-100	1-20	21-50	51-100	100 EQUIP CNTGY	PER 100 EQUIP	FIG. NO.	ITEM NO.
		SECTION VII - REPAIR PARTS FOR DS MAINTENANCE													
		GROUP 01 - WELDING SHOP													
X20		SHACKLE, ANCHOR: LIFTING AND TIE DOWN RRC271TYPEIVCLASS4 (36024)		EA	jt									C1	1
ОЧ	5305-269-3214	SCREW, CAP, HEXAGON HEAD: CYLINDER STOP MTG, 3/8-16 THD SIZE, 1 1/2 IN. LG MS90725-64 (96906)		EA	4	*	*	*				*	*	C1	2
ΡO	531 0-184- 8971	WASHER, LOCK: CYLINDER STOP MTG, 3/8 IN, SCREW SIZE MS35338-103 (96906)		EA	4	*	*	*				*	*	C1	3
X20		PLATE, NUT: CYLINDER STOP MTG 13217E3316 (97403)		EA	2									C1	¥
X2 0		STOP, CYLINDER 13217E3315 (97403)		EA	2									C1	5
ΡO	5310-959-7600	NUT, SELF-LOCKING, HEXAGON: U-BOLT MTG, 1/4-18 THD SIZE MS51922-5 (96906)		EA	4	*	*	*				*	*	C1	6
ΡO		BOLT, 16, GRAUND ROD MTG, 1/4-28 THD SIZE NAS3104-6-10 (24062)		EA	2	*	*	*				*	*	C1	7
PF	5305-068-0511	SCREW, CAP, HEXAGON HEAD; WELDING MACHINE MTG, 3/8-16 THD SIZE, 1 1/4 IN, LG MS90728-62 (96906)		EA	4	*	*	*				*	*	CI	8
PF	5310-107-0671	WASHER, LOCK: WELDING MACHINE MTG, 3/8 IN. SCREW SIZE MS35338-102 (96906)		EA	Ъ	*	*	*				*	*	C1	9
ΡF	5310-080-6004	WASHER, FLAT: WELDING MACHINE MTG, 3/8 IN. SCREW S IZE MS27183-14 (96906)		EA	ЪĻ	*	*	*				*	*	C1	10
K2F R	3431-253 -05 58	WELDING, MACHINE: ARC, 300 AMP LTO-300 (36024)		EA	1									C1	11
? F	5305-068-0511	SCREW, CAP, HEXAGON HEAD: TAILLIGHT TO TRAILER BODY MTG, 3/8-16 THD SIZE, 1 1/4 IN. LG MS90728-62 (96906)		EA	4	*	*	¥				*	*	C1	12
K2F		SPACER: TAILLIGHT TO TRAILER BODY MTG 13217E3320-1 (97403)		EA	2									C1	13
(2F		SPACER: TRAILER BRAKE CABLE CLAMP MTG 13217 E3320-1 (97403)		EA	2									C1	14
X2F		SPACER: TRAILER BRAKE LEVER MTG 13217E3320-2 (97403)		EA	2									C1	15
5 F	5310-087-4652	NUT, SELF-LOCK ING, HEXAGON: TRAILER BODY TO TRAILER MTG, 3/8-16 THD SIZE MS51922-17 (96906)		EA	2	*	*	*				*	*	C1	16
ΡF	5305-068-0511	SCREW, CAP, HEXAGON HEAD: TRAILER BODY TO TRAILER MTG, 3/8-16 THD SIZE, 1 1/4 IN. LG MS90728-62 (96906)		EA	2	*	*	*				*	*	C1	17
°F	5310-087-4652	NUT, SELF-LOCKI NG, HEXAGON: TRAILER BODY TO TRAILER MTG, 3/8-16 THD SIZE MS51922-17 (96906)		EA	12	*	*	*				*	*	C1	18

(1)	(2)	(3)		(4)	(5)		(6)			(7)		(8)	(9)	()())
SMR	FEDERAL	DESCRIPTION				30-	(DS _OW (b)		30.	Y GS _DWA (b)	JNT <u>CE</u> (c)	1-YR ALW	EPO IAINT	1L1 TR (0)	0N (b)
CODE	STOCK NUMBER		JSABLE ON	UNIT	QTY INC IN	(0)	(в)	(¢)	(4)	(8)	(1)	PER 100 QUIP	ALW PER 100	-1G	TEM
		REF NUMBER & MFR CODE	CODE	MEA:	JNIT	1.20	1-5(1.100	1-20	<u>1-50</u>	51-100	NTGY	QUIP	10	NO
' F	5305-068-0511	CREW, CAP, HEXAGON HEAD: TRAILER BODY TO TRAILER MTG, 3/8-16 THE SIZE, 1 1/4 IN. LG MS90728-62 (96906)		EA	12	•	*	*				*	*	C1	19
F	5310-087-4652	JT, SELF-LOCK ING, HEXAGON: TRAILER BODY TO TRAILER MTG, 3/8-16 THD SIZE MS51922-17 (96906)		EA	4	*	*	*				*	*	C1	20
F	5305-782-9489	CREW, CAP, HEXAGON HEAD: TRAILER BODY TO TRAILER MTG, 3/8-16 THD SIZE, 2 IN. LG MS90728-66 (96906)		EA	4	4	*	*				*	*	C1	21
F	5310-087 - 4652	UT, SELF-LOCKING, HEXAGON: TRAILER BODY TO TRAILER MTG, 3/8-16 THD SIZE MS51922-17 (96906)		EA	6		*	*				*	¥	C1	22
F	5305-068-0511	CREW, CAP, HEXAGON HEAD; TRAILER BODY TO TRAILER MTG, 3/8-16 THD SLZF, 1, 1/4 IN, LG MS90728-62 (96906)		EA	6	¥	*	*				*	*	C1	23
F	5310-984-3806	JT, SELF-LOCKING, HEXAGON: TRAILER BODY TO TRAILER MTG, 5/16-18 THD SIZE MS51922-9 (96906)		EA	14	*	+	*				*	*	C1	24
F	5306-226 - 4827	DLT, MACHINE: TRAILER BODY TO TRAILER MTG, 5/16-18 THD SIZE, 1 IN. LG MS90728-34 (96906)		EA	14	4	*	*				*	*	C1	25
2FR)DY, TRAILER 13217E3311 (97403)		EA	1									C1	26
0	5315-839-5821	PIN, COTTER: GAS BOTTLE HOLD-DOWN CLEVIS PIN, 1/8 IN. DIA, 3/4 IN. LG MS24665-351 (96906)		EA	2		*	*				*	*	C1	27
20		PIN, STRAIGHT, HEADED: GAS BOTTLE HOLD-DOWN CLEVIS, 1/2 IN. DIA, 1 27/64 IN. LG MS35810-36 (96906)		EA	2									C1	28
20		CLEVIS, ROD END: GAS BOTTLE HOLD-DOWN 13217E3324 (97403)		EA	2									C1	29
0	5310-768-0318	NUT, PLAIN, HEXAGON: GAS BOTTLE HOLD-DOWN LOAD BINDER EYE BOLT, 1/2-13 THD SIZE MS51967-14 (96906)		EA	2	*	*	*				*	*	C1	30
20		BOLT, EYE, TURNBUCKLE: GAS BOTTLE HOLD-DOWN LOAD BINDER 13216E7335 (97403)		EA	2									C1	31
20		LOAD BINDER: GAS BOTTLE HOLD-DOWN 13216E7326 (97403)		EA	2									C1	32
0	4010-160-8563	CHAIN: GAS BOTTLE HOLD-DOWN MANUFACTURE FROM:		EA	ų									C1	33
ο	4010-161-8563	CHAIN, 12 LINKS REQUIRED					*	*						C1	33
0	5315-839-5821	PIN, COTTER: GAS BOTTLE HOLD-DOWN CLEVIS PIN, 1/8 IN. DIA, 3/4 IN. LG MS24665-351 (96906)		EA	3	*	*	*				*	*	C1	34
20		PIN, STRAIGHT, HEADED: GAS BOTTLE HOLD-DOWN CLEVIS, 1/2 IN. DIA, 1 27/64 IN. LG MS35810-36 (96906)		EA	3									C1	35
								. <u></u>							

(1)	(2)	(3)		(4)	(5)		(6)			(7)		(8)	(9.)	()	0)
SMR	FEDERAL	DESCRIPTION				A	AY DS I	AAINT NCE	A	AY GS A		1-YR AL₩	DEPOT	ILLL TRA	IS- TION
CODE	STOCK NUMBER		USABLE ON	UNIT	QTY INC	(a)	(ь)	(c)	(a)	(b)	(c)	PER 100	AL₩ PER	(a)	(b)
		REF NUMBER & MFR CODE	CODE	OF MEAS	IN UNIT	1-20	21-50	51-100	1-20	21-50	51-100	EQUIP CNTGY	100 EQUIP	FIG. NO.	ITE₩ NO
4 20		CLEVIS, ROD, END: GAS BOTTLE HOLD-DOWN 13217E3324 (97403)		EA	3									C1	36
* O	5310-768-0318	NUT, PLAIN, HEXAGON: GAS BOTTLE HOLD-DOWN LOAD BINDER EYE BOLT, 1/2-13 THD SIZE MS51967~14 (96906)		EA	3	*	*	*				*	*	C1	37
(20		LINK, END, LAP: GAS BOTTLE HOLD-DOWN, 1/4 IN. RRC271 TYPEIII(97403)		EA	6									C1	38
620		BOLT, EYE, TURNBUCKLE: GAS BOTTLE HOLD-DOWN LOAD BINDER 13216E7335 (97403)		EA	3									C1	39
10	4010-161-8563	CHAIN: GAS BOTTLE HOLD-DOWN MANUFACTURE FROM:		EA	3									CI	40
, 0	4010-161-8563	CHAIN, 22 LINKS REQUIRED				*	*	*						C1	¥ọ
20		LOAD B INDER; GAS BOTTLE HOLD-DOWN 1 3216E7326 (97403)		EA	3									C1	41
10		CHAIN: GAS BOTTLE HOLD-DOWN MANUFACTURE FROM:		EA	3									C1	42
• 0	4010-161-8563	CHAIN, 3 LINKS REQUIRED				*	*	*				*	*	C1	42
:2F R	2330-898-6780	CHASSIS, TRAILER MS53028-1 (96906)		EA	1									C1	43
		GROUP 02 - WELDING SET, INERT GAS SHIELDED													
20	3431-935-7822	WELDI NG SFT, INERT GAS SHI ELDED SP10 (88725)		EA	1	*	*	*				*	*	C2	1
20	3431-160-7880	GUN, WELDING: METAL INERT GAS 321 B107G08 (08452)		EA	1	*	*	*				¥	*	C2	2
50		BOLT, REEL COVER 419A029H01 (08452)		EA	1	*	*	*				*	*	C2	3
50	5330-762-2299	PACK ING, PREFORMED: REEL COVER BOLT MS29513-008 (96906)		EA	1	*	*	*				*	*	C2	4
۰ ٥	3431-875-7652	COVER, REEL 637C247H01 (08452)		EA	1	*	*	*				*	*	C2	5
' 0	5305-984-5676	SCREW, MACH I NE : REEL SHAFT MTG, PAN HEAD, CROSS RECESS, 5/16-18 THD SLZF, 3/4 IN. LG MS35206-296 (96906)		EA	1	*	*	*				*	*	C2	6
' O	3431-164-2666	SHAFT, REEL 448a024H01 (08452)		EA	1	*	*	*				*	*	C2	7
° 0	5310-167-0820	WASHER, FLAT: REEL SHAFT MTG, 0.0328 IN. 10, 0.562 IN. 00, 0.064 IN. THK AN960-516 (88044)		EA	1	*	×	*				*	*	C2	8
'0	5305-958-3050	SCREW, TAPPING, THREAD CUTTING: BRAKE SUPPORT MTG, NO. 6-32 THD SIZE, 3/8 IN. LG MS24649-24 (96906)		EA	2	*	*	*				*	*	C2	9
· 0	5310-045-4007	WASHER, LOCK: BRAKE SUPPORT MTG, NO. 6 SCREW SIZE MS35338-41 (96906)		EA	2	*	*	*				*	*	C2	10
' 0	5310-167-0816	WASHER, FLAT: BRAKE SUPPORT MTG, NO. 6 SCREW SIZE AN960-6 (88044)		EA	2	*	*	*				*	*	C2	11

(1)	(2)	(3)		(4)	(5)		(6)			(7)		(8)	(9)	0	0)
	FEDERAL	DESCRIPTION				30- D A	AY DS N	NCE		AY GS N		1 Y R	DEPOT	ILLU TRA	JS- TION
SMR CODE	STOCK	DESCRIPTION	USABLE		QTY INC	(a)	(b)	(c)	(a)	(b)	(c)	ALW PER 100	MAINT. ALW PER	(a)	(b)
	NUMBER	REF NUMBER & MFR CODE	ON CODE	UNIT OF MEAS	NI NI UNIT	1-20	21-50	51-100	1-20	21-50	51-100	EQUIP	100 EQUIP	FIG NO	ITEM NO
0	3431-875-7651	SUPPORT, BRAKE 419A008H01 (08452)		EA	1	*	*	*				*	*	C2	12
ο	3431-446-2643	BRAKE 419A011H01 (08452)		EA	1	*	*	*				*	*	C2	13
0		KNOB, RHEOSTAT 451 A240H01 (08452)		EA	1	*	*	*				*	*	C2	14
0	5305-958-0670	SCREW, MACHI NE: WELDI NG GUN SHIELD MTG, PAN HEAD SLOTTED, NO. 8-36 THO SIZE, 2 3/4 IN. LG MS35224-56 (96906)		EA	3	*	*	*				*	*	C2	15
20		SHIELD, POTENT IOMETER 483A753H01 (08452)		EA	1									C2	16
F	5905-161-3447	POTENTI OMETER ASSEMBLY, DUAL 483A752H01 (08452)		EA	1	*	*	*				*	*	C2	17
0	3431-162-3978	CABLE ASSEMBLY, CURRENT 3108142G06 (08452)		EA	1	*	¥	*				*	*	C2	18
0		HOSE ASSEMELY, GAS 432C506G06 (08452)		EA	1	*	*	*				*	*	C2	19
20		BOOT: CURRENT CABLE AND GAS HOSE 419A046H01 (08452)		EA	1									C2	20
0	5325-281-3536	BUSH I NG, RUBBER : CURRENT CABLE THROUGH WELD I NG GUN SHIELD 282498 (08452)		EA	1	*	*	*				×	*	C2	21
20		SHIELD ASSEMBLY: WELD I NG GUN 867D652G01 (08452)		EA	1									C2	22
20		SCREW, LOCK, GUIDE TUBE 422A505G01 (08452)		EA	1									C2	23
0	3431 - 997 - 2291	TUBE, GUIDE, WIRE: 0.030 IN. WIRE DIA 3068172H03 (08452)		EA	1	*	*	*				*	*	C2	24
0	3431-446-2644	TUBE, GUIDE, WIRE: 0.047 IN. WIRE DIA 3068172409 (08452)		EA	1	*	*	*				*	*	C2	24
0	3431-928-2519	NOZZLE, GAS 3118703H03 (08452)		EA	1	*	*	*				*	*	C2	25
20	3431-875-7930	ADAPTOR : GUN TUBE TO NOZZLE 419A003H01 (08452)		EA	1	*	*	*				*	*	C2	2 6
0	3431-875-7638	WASHER, INSULATI NG: BARREL TO ADAPTOR 419A006H02 (08452)		EA	1	*	*	*				*	*	C2	27
0	3431-875-7637	WASHER, INSULATING: BARREL TO ADAPTOR 419A006H01 (08452)		EA	1	*	*	*				*	*	C2	28
0	5305-582-5807	SCREW, MACH I NE: GUN BARREL HOUS I NG MTG, NO. 6-32 THD SIZE, 3/8 IN. LG MS35265-28 (96906)		EA	4	*	*	*				*	*	C2	29
20		HOUSING, GUN BARREL 4538483H01 (08452)		EA	1									C2	30
20		INSULATION, GUN BARREL 419A005H02 (08452)		EA	1									C2	31
50		1 NSULATI ON: GUN BARREL 419A010H01 (08452)		EA	1									C2	32
50		GUN BARREL ASSEMBLY 419A002G02(08452)		EA	1									C2	33

(1)	(2)	(3)		(4)	(5)		(6)			(7)		(8)	(9)	(10))
	FEDERAL	DESCRIPTION					AY DS N LLOWAI			AY GS N LLOWAI		1-YR AL₩	DEPOT	ILLU TRA	TION
SMR CODE	STOCK		USABLE	UNIT	QTY INC	(a)	(b)	(c)	(a)	(b)	(c)	PER	ALW PER	(a)	(p)
	NUMBER	REF NUMBER & MFR CODE	ON CODE	OF MEAS	IN UNIT	1-20	21-50	51-100	1-20	21-50	51-100	EQUIP CNTGY	100 EQUIP	FIG. NO.	ITEM NO.
· 0	3431-875-7637	WASHER, INSULATING: BARREL TO BRACKET ASSEMBLY 419A006H01 (08452)		EA	1	*	*	*				*	*	C2	34
· 0	3431-162-3977	BUSHING, FRONT GUIDE 2209A70H01 (08452)		EA	1	*	*	*				*	*	C2	35
' 0	5305- 719 - 5336	SETSCREW: REAR GUIDE BUSHING MTG, HEADLESS SOCKET DRIVE, CUP POINT, NO. 8-32 THD SIZE, 1/8 IN. LG MS51963-33 (96906)		EA	1	*	*	*				*	*	C2	36
20		RING, RETAINING: REAR GUIDE BUSHING 5209290H01 (08452)		EA	1	*	*	*				*	*	C2	37
20		BUSHING, REAR GUIDE 4884441H01 (08452)		EA	1	*	*	*				*	*	C2	38
:20		FITTING: GAS HOSE MTG 4194043H01 (08452)		EA	1									C2	39
20		PIN: BRACKET AND FITTING ASSEMBLY 452A107H01 (08452)		EA	1	*	*	*				*	*	C2	40
20		PLUG, PIPE: BRACKET AND FITTING ASSEMBLY 453A757H01 (08452)		EA	1									C2	41
' O		SPRING: BRACKET AND FITTING ASSEMBLY 452A106H01 (08452)		EA	1	*	*	*				*	*	C2	42
20		BEAR I NG, BALL: BRACKET AND FITTING ASSEMBLY 452A108H01 (08452)		EA	1	*	*	*				*	*	C2	43
0	5330-641-0693	PACK I NG, PREFORMED: BRACKET AND FITTING ASSEMBLY 442A161H04 (08452)		EA	1	*	*	*				*	*	62	դդ
0	5305-958-4361	SCREW, MACH I NE: BRACKET AND FITTING ASSEMBLY MTG, NO, 8-36 THD SIZE, 1 1/2 IN. LG MS35207-251 (96906)		EA	1	*	*	*				*	*	C2	45
0	5305-7 19-5336	SETSCREW: BRACKET AND FITTING ASSEMBLY, HEADLESS, SOCKET DRIVE, CUP POINT, NO. 8-32 THD SIZE, 1/8 IN. LG MS51963-33 (96906)		EA	1	*	*	*				*	*	C2	46
0	5305-989-74 35	SCREW, MACHINE: BEARING ARM MTG, PAN HEAD, CROSS RECESS, NO. 10-32 THD SIZE, 5/8 IN. LG MS35207-264 (96906)		EA	1	*	*	*				*	*	C2	47
20	3431-875-7646	SCREW, NYLON; BEARING ARM IDLER ROLL MTG 442A169H01 (08452)		EA	1	*	*	*				*	*	C2	48
20		WASHER, I NSULATI ON: BEAR I NG ARM IDLER ROLL MTG 3108141H04 (08452)		EA	2									C2	49
' O	3431-875-7645	ROLL, IDLER, INSULATED: BEARING ARM 5570415H39 (08452)		EA	1	*	*	*				*	*	C2	50
20	5330-762-2299	PACK ING, PREFORMED: BEAR I NG ARM BOLT MS29513-008 (96906)		EA	1	¥	*	*				*	*	C2	51
20		BOLT, BEARING ARM 419A025H01 (08452)		EA	1									C2	52
° 0	4935-875-7648	SPRING: BEARING ARM BOLT 419A027H01 (08452)		EA	1	*	*	*				*	*	C2	53

(1)	(2)	(3)		(4)	(5)		(6)			(7)		(8)	(9)	(1	0)
	FEDERAL	DESCRIPTION					LLOWA			AY GS I		1-YR	DEPOT	ILLI TRA	IS- TION
SMR	STOCK		USABLE		QTY INC	(a)	(៦)	(c)	(a)	(b)	(c)	ALW PER 100	PER	(a)	(b)
	NUMBER	REF NUMBER & MFR CODE	CODE	UNIT OF MEAS		1-20	21-50	51-100	1-20	21-50	51-100	EQUIP	100 EQUIP	FIG. NO.	ITEM NO.
20	3431111664-2665;	arm, bearing 419ao26ho2 (08452)		EA	1	*	*	*				*	*	C2	54
20	1	BRACKET AND FITTING ASSEMBLY 427C605G08 (08452)		EA	1									C2	55
20	1	FITTING ASSEMBLY 427C605G04 (08452)		EA	1									C2	56
0	5305-582-5807	SCREW, MACHINE: WELDING GUN HANDLE MTG, NO. 6-32 THD SIZE, 3/8 IN. LG MS35265-28 (96906)		EA	1	*	*	*				*	*	C2	57
0	5305-582-5808	SCREW, MACHINE: WELDING GUN HANDLE MTG, NO. 6-32 THD SIZE, 5/8 IN. LG MS35265-31 (96906)		EA	1	*	*	*				*	*	C2	58
0	5305-51 4-7 506	SCREW, MACHINE: WELDING GUN HANDLE MTG, NO. 6-32 THD SIZE, 1/4 IN. LG MS35265-26 (96906)		EA	1	*	*	*				*	*	C2	59
2F	1	TRIGGER ASSEMBLY: WELDING GUN 451A241G01 (08452)		EA	1									C2	60
F	5305-2 82-8904	SETSCREW: TRIGGER ASSEMBLY, NO. 6-32 THO SIZE, 3/8 IN. LG, HEXAGON SOCKET HEAD, CUP POINT MS51021-25 (96906)		EA	1	*	*	*			}	*	*	C2	61
2F	3431-446-2638	SPRING: TRIGGER ASSEMBLY 3104432H01 (08452)		EA	1	*	*	*				*	*	C2	62
F	3431-162-3976	CABLE ASSEMBLY, POWER SUPPLY 311B796G05 (08452)		EA	1	*	*	*				*	*	C2	63
F	5930-646-4619	SWITCH, INCHING: WELDING GUN HANDLE MS25085-1 (96906)		EA	1	*	*	*				*	*	C2	64
2F		KNIFE, DISCONNECT: WELDING GUN HANDLE WIRE CONNECTOR 4290550H10 (08452)		EA	6									C2	65
F	5930-646-4619	SWITCH, TRIGGER: WELDING GUN HANDLE MS25085-1 (96906)		EA	1	*	*	*				*	*	C2	66
2F		SPRING, FLAT: WELDING GUN HANDLE 205 A091H01 (08452)		EA	1			ł						C2	67
F	3431-163-0180	HANDLE ASSEMBLY: WELD ING GUN 827D099G03 (08452)		EA	1	*	*	*				*	*	C2	68
F	5310 -5 50 -0777	NUT, PLAIN, HEXAGON: DRIVE RAIL TO WELD ING GUN MOTOR MTG, 1/4-20 THD SIZE MS35690-402 (96906)		EA	1	*	*	*				*	*	C2	69
'F	5310-582 - 5965	WASHER, LOCK: DR I VE ROLL TO WELDING GUN MOTOR MTG, 1/4 IN. SCREW SIZE MS35338-44 (96906)		EA	1	*	*	*				•	*	C2	70
F	5310-141-1795	WASHER, FLAT: DRIVE ROLL TO WELDING GUN MOTOR MTG, 1/4 IN. SCREW SIZE AN960-416 (88044)		EA	1	*	*	*				*	*	C2	17
F	3431-160-7879	ROLL, DRIVE: WELDING GUN MOTOR 4194009G03(08452)		EA	1	*	*	*				*	*	C2	72
F	3431-875-7632	MOTOR, ELECTRIC: WELDING GUN 4290550002 (08452)		EA	1	*	*	*				*	*	C2	73
F	5910-968 - 7330	CAPACITOR: WELD ING GUN MOTOR 121 P47392S4 (56289)		EA	1	*	*	*				+	*	C2	74

(1)	(2)	(3)		(4)	(5)	I	(6)			(7)		(8)	(9)	()	0)
	FEDERAL	DESCRIPTION					LLOWA			AY GS I		1-YR	DEPOT	ILLU TRA)S- TION
SMR CODE	STOCK NUMBER		USABLE	UNIT	QTY INC	(a)	(b)	(c)	(a)	(6)	(c)	ALW PER 100	ALW PER	(a)	(b)
		REF NUMBER & MFR CODE	ON CODE	OF MEAS	IN UNIT	1-20	21-50	51-100	1-20	21-50	51-100	EQULP CNTGY	100 EQUIP	FIG. NO.	ITEN NO.
X20		CONTROL, WELDING 4798043G01 (08452)		EA	1									C3	1
ΡO	5305-855-0971	SCREW, SELF-TAPPING, THREAD CUTTING: TOP PLATE TO WELDING CONTROLMTG, NO. 6-32 THD SIZE, 3/16 IN. LG MS24649-21 (96906)		EA	¥	*	*	*		1		*	*	C3	2
K20		PLATE, TOR: WE LD I NG CONTROL 8670749004 (08452)		EA	1									C3	3
P 0	5305-855-0971	SCREW, SELF-TAPPING, THREAD CUTTING: BACK PLATE TO WELDING CONTROL MTG, NO. 6-32 THD SIZE, 3/16 IN. LG MS24649-21 (96906)		EA	6	*	*	*				*	*	C3)ą
(50		PLATE, BACK 867D749H05 (08452)		EA	1									с3	5
°0	5305-855-0971	SCREW, SELF-TAPPING, THREAD CUTTI NG: FRONT BOTTOM PLATE TO WELD I NG CONTROL MTG, NO. 6-32 THD SIZE, 3/16 IN. LG MS24649-21 (96906)		EA	jł.	*	*	*				*	*	с3	6
(20		РLATE, 590NT, ВОТТОМ 8670749H06 (08452)		EA	1									C3	7
°0	5930-577-2285	SWITCH, RANGE MS35059-23 (96906)		EA	1	*	*	+				*	*	c3	8
, 0	5930-655-1575	SWITCH, POWER MS35059=22 (96906)		EA	1	+	*	*				*	*	C3	9
, 0	6210-165-1486	LAMP ASSEMBLY: WELD I NG CONTROL 422A547H05 (08452)		EA	1	*	*	*				*	*	C3	10
, 0	6240-223-9100	LAMP, I NCANDESCENT GEB1A (08805)		EA	1	*	*	*				*	+	C3	11
, 0	5305-855-0958	SCREW, SELF-TAPPING, THREAD CUTTI NG: FRONT TOP PLATE TO WELDING CONTROL MTG, NO. 10-24 THD SIZE, 3/8 IN. LG MS24629-45 (96906)		EA	jt.	*	*	+				*	*	с3	12
120		РLATE, FRONT, TOP 8670749407 (08452)		EA	1									C3	13
120	5920-556-0144	HOLDER, FUSE 342004 (75915)		EA	3									c3	14
• 0	5920-843-8072	FUSE: 4 AMP, 250V MS15249-4 (96906)		EA	2	*	*	*				*	*	сз	15
,0		FUSE: 1 AMP, 250V MS15249-1 (96906)		EA	1	*	*	*				*	*	C3	16
۰0		NUT, PLAIN, HEXAGON: TRANSFORMER MTG, NO. 10-32 THD SIZE MS35650-102 (96906)		EA	jt.	*	*	*				*	*	C3	17
, 0	5310-045-3296	WASHER , LOCK: TRANSFORMER MTG, NO, 10 SCREW SIZE MS35338-43 (96906)		EA	Ъ	*	*	*				*	*	C3	18
, 0		SCREW, MACH I NE : TRANSFORMER MTG, NO. 10-32 THD SIZE, 1/2 IN. LG MS35224-63 (96906)		EA	¥	*	*	*				*	*	C3	19
• 0	5950-156-0691	TRANSFORMER: WELD ING CONTROL 488A250H01 (08452)		EA	1	• •		*				*	*	c3	20
,0	5310-013-4530	NUT, PLAIN, HEXAGON: WELDING CONTROL RESISTOR MTG, NO. 6-32 THD SIZE MS35649-62 (96906)		EA	jų.	*	*	*				*	• • • •	C3	21

(1)	(2)	(3)		(4)	(5)		(6)			(7)		(0)	(7		
	CEDED AL	DESCRIPTION					AY DS A			DAY GS N		1 Y R	DEPOT	ILLU TRA	
SMR	FEDERAL STOCK	DESCRIPTION	USABLE		QTY	(a)	(b)	(c)	(a)	(b)	(c)	ALW PER	MAINT ALW	(a)	(6)
	NUMBER	REF NUMBER & MFR CODE	ON CODE	UNIT OF MEAS	INC IN UNIT	1-20	21-50	51-100	1-20	21-50	51-100	100 EQUIP CNTGY	PER 100 EQUIP	FIG. NO:	ITEM NO-
' 0	5310-045-4007	WASHER, LOCK: WELDING CONTROL RESISTOR MTG. NO. 6 SCREW SIZE		EA	4	¥	*	*				*	*	c3	22
0		MS35338-41 (96906) SCREW, MACHINE: WELDING CONTROL RESISTOR MTG, NO. 6-32 THD SIZE, 3/8 IN. LG MS35223-28 (96906)		EA	4	*	*	*				*	*	c3	23
0	5905-161-3446	RESISTOR: WELDING CONTROL 463A462H06 (08452)		EA	2	*	*	*				*	*	c3	24
20		RECTIFIER: WELDING CONTROL 429A062H01 (08452)		EA	1									c3	25
0	5305-855-0971	SCREW, SELF-TAPPING, THREAD CUTTING: WELDING CONTROL RECEPTACLE MTG, NO. 6-32 THD SIZE, 3/16 IN. LG MS24649-21 (96906)		EA	4	*	*	*				*	*	c3	26
20		RECEPTACLE: WELDING CONTROL 483A891H01 (08452)		EA	1									с3	27
o	5310-013-4530	NUT, PLAIN, HEXAGON: WELDING CONTROL RELAY MTG, NC. 6-32 THD SIZE MS35649-62 (96906)		EA	2	*	*	*				*	*	C3	28
o	5310-045-4007	WASHER, LOCK: WELDING CONTROL RELAY MTG, NO. 6 SCREW SIZE MS35338-41 (96906)		EA	2	*	*	*				*	*	C3	29
0		SCREW, MACHINE: WELDING CONTROL RELAY MTG, NO. 6-32 THD SIZE, 3/8 IN. LG MS35223-28 (96906)		EA	2	*	*	*				*	*	c3	30
'20		RELAY: WELDING CONTROL 480B09H03 (08452)		EA	1	*	*	*				*	*	с3	31
C	5310-013-4530	NUT, PLAIN, HEXAGON: WELDING CONTROL TERMINAL BLOCK MTG, NO. 6-32 THD SIZE MS35649-62 (96906)		EA	2	*	*	*				*	*	c3	32
' O	5310-045-4007	WASHER, LOCK: WE LDING CONTROL TERMINAL BLOCK MTG, NO. 6 SCREW SIZE MS35338-41 (96906)		EA	2	*	*	*				*	*	с3	33
0	5305-543-2188	SCREW, MACHINE: WELDING CONTROL TERMINAL BLOCK MTG, NO. 6-32 THD SIZE, 3/4 IN. LG MS35223-32 (96906)		EA	2	*	*	*				*	*	сз	34
20		BLOCK, TERMINAL: WELDING CONTROL 32 B1029H13 (08452)		EA	1									с3	35
0	5905-163-3599	RESISTOR: WELDING CONTROL 450A297HOG (08452)		EA	2	*	¥	*				*	*	с3	36
' 0	5905 - 161 - 3445	RESISTOR: WELDING CONTROL 463A462H07 (08452)		EA	1	*	×	*				*	*	с3	37
' 0	3431-162-3974	CABLE ASSEMBLY; WELDING CONTROL 4350512G01 (08452)		ε a	1	¥	*	*				*	*	c 3	38
° 0	3431-162-3975	CABLE ASSEMBLY: WELDING CONTROL 21C8339G07 (08452)		EA	1	*	*	*				*	*	c3	35
(20		BUSHING: WELDING CONTROL CABLE 427C613H04 (08452)		EA	2									c 3	¥с
(20		BUSHING: WELDING CONTROL BRACKET 282498 (08452)		EA	1									с3	41
, 0		NUT, PLAIN, HEXAGON: BRACKET MTG, NO. 10-32 THD SIZE MS35650-102 (96906)		EA	2	*	*	*				*	*	с3	42

(1)	(2)	(3)		(4)	(5)	(6)		(7)			(8)	(9)	(10))	
	FEDEDAI	DESCRIPTION				30- DAY DS MAINT ALLOWANCE			AY GS A		T Y R	DEPOT	ILLU TRA		
SMR CODE	FEDERAL STOCK	DESCRIPTION	USABLE		QTY	(0)	(b)	(c)	(a)	(b)	(c)	ALW PER	MAINT ALW	(a)	(b)
	NUMBER	REF NUMBER & MFR CODE	ON CODE	UNIT OF MEAS	INC IN UNIT	1-20	21-50	51-100	1-20	21-50	514-100	100 EQUIP CNTGY	PER 100 EQUIP	FIG. NO.	ITEM NO
ΡQ	5310-045-3296	WASHER, LOCK: BRACKET MTG, NO. 10 SCREW SIZE MS35338-43 (96906)		EA	2	*	*	*				¥	*	c3	43
ΡO		SCREW, MACHINE: BRACKET MTG, NO. 10-32 THD SIZE, 1/2 IN. LG MS35224-63 (96906)		EA	2	*	*	*				*	*	с3	44
×20		BRACKET: RECTIFIER, RELAY AND TERMINAL BLOCK MTG 8670749H02 (08452)		EA	1									c 3	45
PO	53 05-855-0 958	SCREW, SELF-TAPPING, THREAD FORMING: BRACKET TO WELDING CONTROL BASE MTG, NO. 10-24 THD SIZE, 3/8 IN. LG MS24629-45 (96906)		EA	jt.	*	*	*				*	*	c3	46
(20		BRACKET: WELDING CONTROL BASE 8670749H03 (08452)		EA	1									с3	47
X2F		base, U-SHAPED 867D749H01 (08452)		EA	1									с3	48
		GROUP 03 - MISCELLANEOUS COMPONENTS													
20	5340-912-4088	PADLOCK SET: TOOL BOX MS21313-162 (96906)		EA	1	*	*	*				*	*	c¥	1
٥ د	5310-088-1251	NUT, SELF-LOCKING, HEXAGON: TOOL BOX MTG, 1/4-20 THD SIZE MS51922-1 (96906)		EA	6	*	*	*				*	*	с4	2
P 0	5310-809-4058	WASHER, FLAT: TOOL BOX MTG, 1/4 IN. SCREW SIZE MS27183-10 (96906)		EA	6	*	*	*				*	*	с4	3
° 0	5305-071-2241	SCREW, CAP, HEXAGON HEAD: TOOL BOX MTG, 1/4-20 THD SIZE, 1 1/4 IN. LG MS90725-10 (96906)		EA	6	*	*	×				*	*	C4	4
K 20		FLOOR, BOX: TOOL BOX, LH FENDER 13217E3322 (97403)		EA	1									с4	5
×2 0		BOX, TOOL: LH FENDER 13217E3313 (97403)		EA	1									с¥	6
° 0	5310 -0 88 -1251	NUT, SELF-LOCK ING, HEXAGON: TOOL BOX MTG, 1/4-20 THD SIZE MS51922-1 (96906)		EA	12	*	*	*				*	*	c4	7
۰ o	5310-809-4058	WASHER, FLAT: TOOL BOX MTG, 1/4 IN. SCREW SIZE MS27183-10 (96906)		EA	12	*	*	*				*	*	C ⁴	8
ΡO	5305-071-2241	SCREW, CAP, HEXAGON HEAD: TOOL BOX MTG, 1/4-20 THD SIZE, 1 1/4 IN. LG MS90725-10 (96906)		EA	12	*	*	*				*	*	c¥	9
K20		FLOOR, BOX: TOOL BOX, FRONT 13217 E3321 (97403)		EA	2									c4	10
K 20		BOX, TOOL: FRONT 13217 E3312 (97403)		EA	2									c4	11
, 0	5310-088-1251	NUT, SELF-LOCKING, HEXAGON: TOOL BOX MTG, 1/4-20 THD SIZE MS51922-1 (96906)		EA	8	*	*	*				*	*	C4	12
° 0	5310-809-4058	WASHER, FLAT: TOOL BOX MTG, 1/4 IN. SCREW SIZE MS27183-10 (96906)		EA	8	*	*	*				*	*	C¥	13
PO	5305-071 ₋₂₂ 41	SCREW, CAP, HEXAGON HEAD: TOOL BOX MTG, 1/4-20 THD SIZE, 3 1/4 IN. LG MS90725-10 (96906)		EA	8	*	*	*				*	*	C ¹ 4	14

(1)	(2)	(3)		(4)	(5)		(6)			(7)		(8)	(9)	(1)	0)
		DESCRIPTION					AYDSM			AY GSM		1-YR	DEPOT	ILLL TRA	IS.
SMR CODE	FEDERAL STOCK				QTY	(a)	(b)	(c)	(a)	(b)	(c)	AL₩ PER	MAINT . ALW	(a)	(b)
CODE	NUMBER		USABLE ON CODE	UNIT OF MEAS	INC IN TINU	1-20	21-50	51-100	1-20	21-50	51-100	100 EQUIP CNTGY	PER 100 EQUIP	FIG. NO	ITEM NO
(20		FLOOR, BOX: TOOL BOX, RH FENDER 13217E3323 (97403)		EA	1									C¥	15
(20		BOX, TOOL: RH FENDER 13217E3314 (97403)		EA.	1									C4	16
, 0	5310 -0 88 -125 1	NUT, SELF-LOCKING, HEXAGON: REFLECTOR MTG, 1/4-20 THD SIZE MS51922-1 (96906)		EA	8	*	*	*				*	*	C4	17
, 0	5305 -0 68 -0501	SCREW, CAP, HEXAGON HEAD: REFLECTOR MTG, 1/4-20 THD SIZE, 5/8 IN, LG MS90725-5 (96906)		EA	8	*	*	*				*	*	с4	18
20	9905 -202- 3639	REFLECTOR, AMBER MS35387-2 (96906)		EA	4	*	*	*				¥	*	c4	19
, 0	5310-088-1251	NUT, SELF-LOCKING, HEXAGON: REFLECTOR MTG, 1/4-20 THD SIZE MS51922-1 (96906)		EA	8	*	*	*				*	*	C4	20
' 0	5305-068-0501	SCREW, CAP, HEXAGON HEAD: REFLECTOR MTG, 1/4-20 THD SIZE, 5/8 IN. LG MS90725-5 (96906)		EA	8	*	*	*				*	*	C¥	21
20	9905-205-2795	REFLECTOR, RED MS35387-1 (96906)		EA	4	*	*	*				*	*	c¥	22

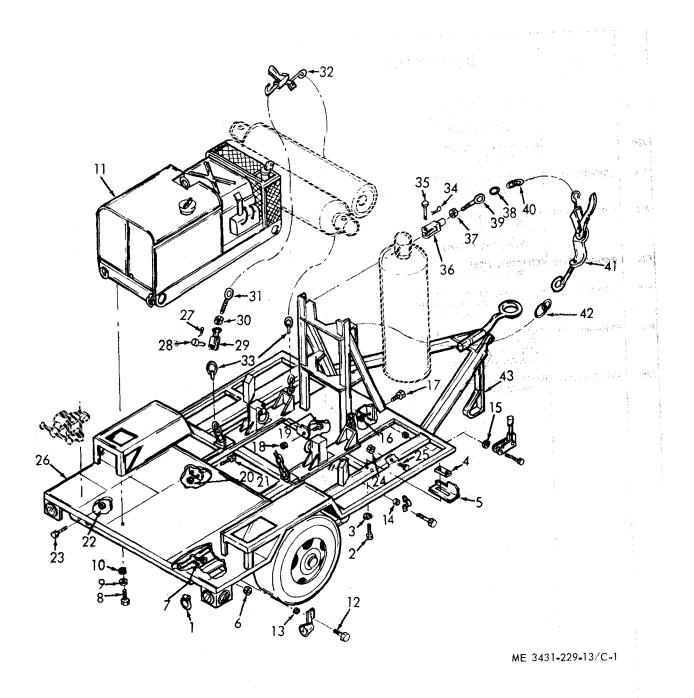


Figure C-1. Tool Boxes and Reflectors

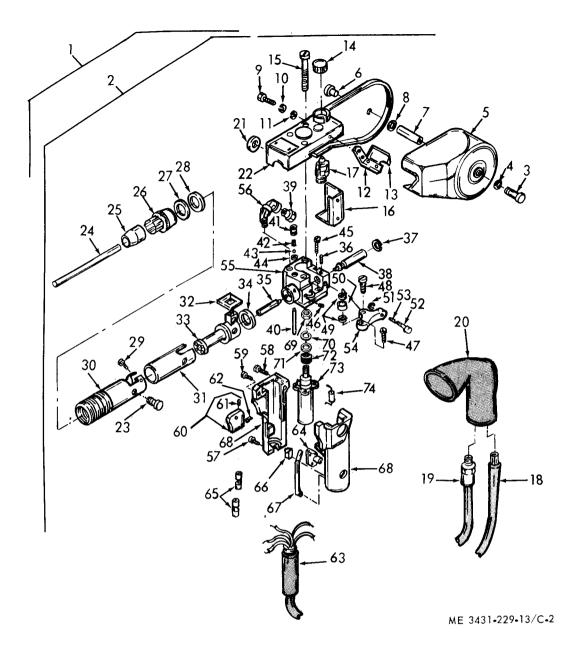


Figure C-2. Welding Gun

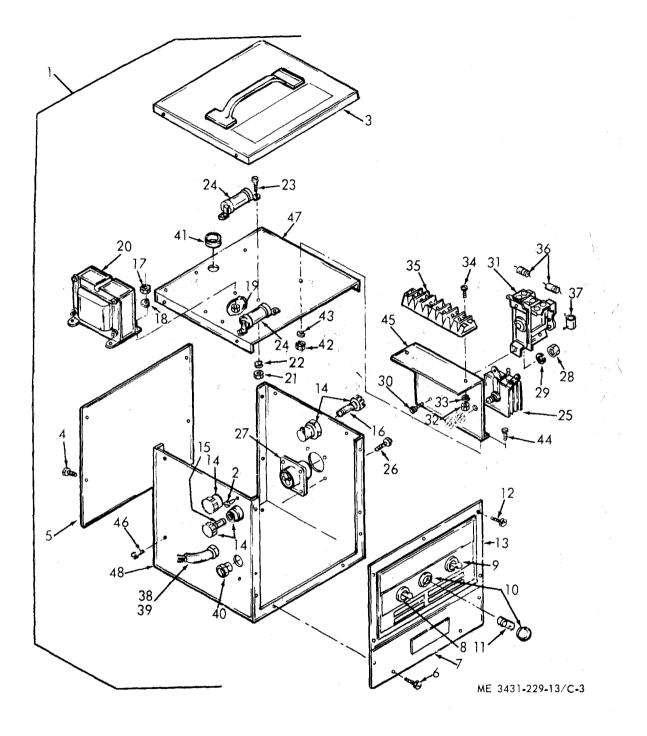


Figure C-3. Control Monitor

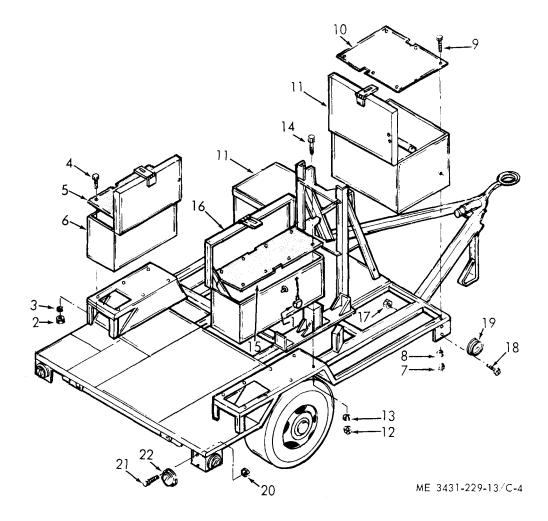


Figure C-4. Welding Machine and Trailer Body

Section IX. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO FIGURE AND ITEM NUMBER

STOCK NUMBER	FIGURE No.	ITEM No.	STOCK NUMBER	FIGURE No.	ITEM No.
2330-898-6780	C1	43	5310-088-1251	С4	17
305-071-2241	C4	14		C4	2.0
3431-160-7879	C 2	72	5310-107-0671	C1	9
3431-160-7880	C2	2	5310-141-1795	C 2	71
3431-162-3974	C 3	38	5310-167-0816	C 2	11
3431-162-3975	С 3	39	5310-167-0820	C 2	8
3431-162-3976	C2	63	5310-184-8971	C 1	3
3431-162-3977	C 2	35	5310-550-0777	C 2	69
3431-162-3978	C2	18	5310-582-5965	C 2	70
3431-163-0180	C2	58	5310-768-0318	C 1	30
3431-164-2655	C 2	54		C1	37
3431-164-2656	C2	7	5310-809-4058	C 4	3
3431-253-0558	C1	11		C 4	8
3431-446-2638	C 2	62		C.4	13
3431-446-2643	C2	13	5310-959-7500	C1	6
3431-446-2644	C 2	24	5310-984-3806	C 1	24
3431-875-7632	C 2	73	5315-839-5821	C 1	27
3431-875-7637	C2	28		C 1	34
	C 2	34	5325-281-3536	C 2	21
3431-875-7638	C2	27	5330-641-0593	62	44
3431-875-7645	C2	50	5330-762-2299	C 2	4
3431-875-7646	C 2	48		C 2	51
3431-875-7651	C 2	12	5340-912-4088	C 4	1
3431-875-7652	C2	5	5905-161-3445	C 3	37
3431-875-7930	C 2	26	5905-161-3446	С 3	24
3431-928-2519	C2	25	5905-161-3447	C 2	17
3431-935-7822	C 2	1	5905-163-3599	C 3	36
3431-997-2291	C 2	24	5910-968-7330	C 2	74
4010-160-8553	C1	33	5920-556-0144	C 3	14
4010-161-8563	C1	33	5920-843-8072		15
	C1	40	5930 -577 -2285	C3	8
	C1	40	5930-646-4619	C 2	64
	C 1	42		C2	66
4935-875-7648	C2	53	5930-655-1575	C 3	9
5305-068-0501	C4	18	5950-156-0691	C 3	20
	C4	21	6210-165-1486	C3	10
5305 - 068 - 0511	C1	8	6240-223-9100	63	11
	C1	12	9905-202-3639	C 4	19
	C1	17	9905-205-2795	C4	22

Section IX. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO FIGURE AND ITEM NUMBER

				· · ·			
REFERENCE No.	MFG Code	Fig No.	Iтен _No.	Reference No.	MFG Code	Fig No.	тем <u>No .</u>
	<u> </u>						
AN960-416	83044	C2	71	MS90728-34	95906	C 1	25
AN960-516	88044	C 2	8	MS90728-62	96706	C 1	8
AN960-6	88344	C 2	11		9570K	C 1	12
GEB 1A	03805 36024	C3	11		95905 95905	<u><u></u>[]</u>	17
LTO-300 MS15249-1	96906	C1 C3	$\frac{11}{16}$		94305		19 23
MS15249-4	96906	C3	15	M\$90728-56	96905	C1	21
MS21313-162	96906	č4	í	NAS3104-6-10	24352	či	7
MS24629-45	96906	C3	12	RRC271TYPEIII	97403	ć i	3,8
	96906	С3	46	RRC271TYPEIVCL4SS4	36024	C 1	1
MS24649-21	96906	С 3	2	SP10	88725	C 2	1
	96906	C 3	4	121P4739254	56289	C 2	74
	96906	C 3	26	13216E7326	07403		32
M\$24649-24	96936 96906	C3 C2	9	13216E7335	07403 97403	C1 C1	41 31
MS24665-351	96906	C1	27	1321027333	97403	C1	39
	96936	či	34	1321753311	97403	C I	26
MS25085-1	96906	č2	54	13217E3312	97403	řå	11
	96906	C 2	66	13217E3313	97433	C4	٤
MS27183-10	96906	C4	3	1321753314	¢7403	C 4	14
	96305	C 4	8	1321783315	97403	C 1	۴,
NC 37107 1/	96906	C4	13	13217E3315	97403	C 1	4
MS27183-14 MS29513-008	96906	C1	10	13217E3320-1	97403	C 1	13
M329913-008	96906 969 0 6	C 2 C 2	4 51	1721752770-2	97403 97403	C1	14
MS35059-22	96906	C3	9	13217E3320-2 13217E3321	\$7403	C 1 C 4	10
MS35059-23	95906	C 3	é	13217F3322	97403	۲)	
MS35206-296	96906	C 2	6	1321753323	97403	C 4	15
MS35207-251	95906	C 2	45	13217E3324	07403	C 1	20
MS35207-264	95905	C 2	47		97403	C 1	36
MS35223-29	95906	C 3	23	205A091H01	09452	C 2	E 7
11005000 00	96906	C3	30	2108339607	09452	C 3	30
MS35223-32	96906 96906	C 3 C2	34 15	2209470H01 282493	03452 03452	C 2 C 2	35
MS35224-56	96906	C3	19	202493	09452	c 3	41
MS35224-63	95906	C 3	44	3068172H03	09452	C 2	24
MS35265-26	95906	Č2	59	3068172409	09452	č 2	24
MS35265-28	96906	Č 2	29	3104432H01	03452	C 2	62
	95905	C 2	57	31 38 14 14 34	03452	C 2	40
MS35265-31	96906	C2	58	3108142606	09452	C 2	19
MS35338-102	96906	C1	S	3118703H03	03452	C 2	25
MS35338-103 MS35338-41	96936	C1	3	3118796605 3281029H13	09452	C 2	63 35
	96906 96906	C2 C3	10 22	3218107608	03452 09452	C 3 C 2	2
	96906	C3	29	342004	75915	03	14
	96906	Č3	33	4194002602	09452	C 2	, r
MS35338-43	96906	Č 3	19	4194003H01	28452	C 2	24
	96906	С 3	43	419A005H02	03452	C 2	31
MS35338-44	95906	C 2	70	41@A006H31	JR452	C 2	2 F
MS35387-1	96906	C4	22 19		09452	C 2	34
MS35387-2	96906	C4		4191005402	08452	C 2	27
MS35649-62	96906	C 3	21	4194005001	08452	C 2	12
	96936 96906	C3 C3	2 8 32	4194009G03 4194010H01	08442 03452	C 2 C 2	72 32
MS35650-102	96906	C 3	17	4194011H01	39452	C2	13
	95906	C3	42	419A025H01	08452	Č2	52
MS35590-402	96906	C2	59	419A026H02	03452		5 4
MS35810-36	96906	C 1	28	419AJ27H01	38452	C 2	÷ 3
	95706	C1	35	41 SA02 9H01	09452	C 2	Ĵ.
MS51021-25	96906	<u>C</u> 2	61	4198043H01	09452	<u>C2</u>	30
MS51922-1	96906 96906	C4 C4	2 7	419A346H31 4224505G01	08452	6.2	20
	96906	C4	12	4224547405	08452 08452	C 2 C 3	23 10
	96906	C4 C4	17	4270 605604	03452	C 2	• 6
	96906	Č4	20	4270605608	03452	r2	45
MS51922-17	96906	či	ĩš	4270613H04	99452	C3	4.)
	96906	cī	18	429A062H01	03452	6.3	2=
	96906	С1	20	4290550602	03452	C 2	נָ ד
	96936	C 1	22	4290 550H10	08452	C 2	45
MS51922-5 MS51922-9	95906	C1	6	4320506606	08452	C 2	10
	96906	C 1	24	4350512G01 4420161H04	08452		39
MS51963-33	96906	C2	36		09452	C2	44
MS51967-14	96906 96906	C2 C1	46 30	4424169H01 448A024H01	03452 08452	C 2 C 2	4 P 7
H3712C1-14	96906	C1 C1	30	4501 297406	09452	C 2	36
MS53028-1	96906	C1	43	451A240H01	03452	C 2	30 14
MS90725-10	96906	Č4	4	451A241G01	03452	ČŽ	60
	96906	C4	ç	452A106H01	03452	ČŽ	42
	96906	Č4	14	452A107H01	08452	čź	4)
MS90725-5	96906	Č4	18	4524108H01	03452	C2	43
	96906	C4	21	4534493H01	09452	C 2	30
MS90725-64	96906	C 1	2	453A757H01	03452	C 2	41

C-28

Section IX. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO FIGURE AND ITEM NUMBER

REFERENCE No.	Mfg Code	Fig No.	ÍTEM No.	REFERENCE No.	MFG Code	Fig. No.	I TEM
463 A462 H06	08452	63	24				
4634462007	08452	63	37				
479B043G01	08452	C 3	1				
480809H03	08452	C 3	31				
483A752H01	08452	C2	17				
4834753H01	08452	C 2	16				
483A891H01	08452	Č3	27				
488A250H01	08452	C3	20				
488A441H01	08452	C 2	38				
52D9290H01	08452	C2	37				
557D415H39	08452	čž	50				
637C247H01	08452	čž	5				
8270099603	08452	Ċ2	68				
8670652601	08452	čž	22				
8670749604	08452	Č3	3				
857D749H01	08452	C3	48				
8670749H02	08452	C3	45				
8670749H03	08452	C3	47				
8670749H05	08452	C3	5				
8670749406	08452	C3	7				
8670749807	08452	C3	13				

A		

Administrative storage.				•	•	•	•	•	•		•		•		•		1	l-6		1-1	
-------------------------	--	--	--	---	---	---	---	---	---	--	---	--	---	--	---	--	---	-----	--	-----	--

С

Control	monitor,	maintenance						4-19	4-7
Control	monitor	r, repair						6-5	6-1
Controls	and	instruments	•	•	•	•		2-1	2-1

D

1-1,5-1
1-1
1-4
5-1
5-4
5-4
5-4
5-4
4-1

Е

Equipment serviceability	
criteria	1-1
F	

Fire extinguisher		2-3	2-4
Forms and records	 	5-2	5-1

I

Identification and tabulated	
data	9 1-4
Inspecting and servicing	
the equipment 4-	1 4-1
Installation 4-	-2 4-1

L

Lubrication	information	•	•	•	•	•	•	•	3-1	3-1
-------------	-------------	---	---	---	---	---	---	---	-----	-----

М

Maintenance forms and	
records	1-1
Maintenance repair parts 4-7	4-1

0

Operation of equipment	2-3
Mig gun	2-3
Stick electrode	2-4
Operation of "MIG" gun	2-3
Operation under unusual	
conditions	2-5

Operator's maintenance:	
Control monitor	3-3
Oxygen, acetylene,	
argon bottles 3-8	3-4
Tools and accessories 3-9	3-4
Trailer chassis	3-4
Welding gun	3-3
Welding machine	3-4
Organizational maintenance:	
Control monitor	4-7
Reflectors	4-5
Toolboxes	4-3
Trailer body	4-5
Welding gun	4-5

Р

l'reventive maintenance checks	
and services:	
Operator	3-1
Organizational	4-2

R

Radio interference suppression:	
Components	4-3
General methods used to	
obtain proper	4-3
Replacement of	4-3
Testing of	4-3
Reflectors	4-5
Repair instructions:	
Control monitor	6-1
Trailer chassis	6-1
Welding gun	6-1
Welding machine	6-1
Reporting of errors	1-1
Reinstallation after movement 4-4	4-1
Removal and installation	
of major components:	
Trailer body	5-4
Trailer chassis ,	5-5
Welding machine	5-4

S

Scope	
Specially designed tools and equipment	5-1
Starting	2-3 2-3

Т

Tabulated data	1 5-1
Toolboxes 4-15	4-3
Tools and equipment 4-5	4-1
Trailer body, maintenance	4-5
Troubleshooting:	
Operator	3-1
Organizational	4-2
Direct Support ,	5-1

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The Metric System and Equivalents

Linear Measure

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

Weights

- 1 centigram = 10 milligrams = .15 grain 1 decigram = 10 centigrams = 1.54 grains
- 1 gram = 10 decigram = .035 ounce
- 1 dekagram = 10 grams = .35 ounce

- 1 hectogram = 10 dekagrams = 3.52 ounces
- 1 kilogram = 10 hectograms = 2.2 pounds
- 1 quintal = 100 kilograms = 220.46 pounds
- 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

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

Square Measure

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

Cubic Measure

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

Approximate Conversion Factors

To change	То	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29 ,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

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

PIN: 005435-000