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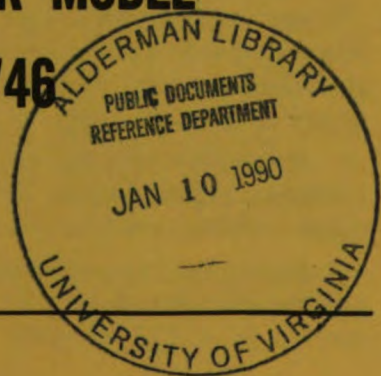
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TM 5-3431-213-14

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

**OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, AND
GENERAL SUPPORT MAINTENANCE MANUAL, INCLUDING
REPAIR PARTS AND SPECIAL TOOLS LIST
WELDING MACHINE, ARC: GENERAL AND INERT GAS
SHIELDED, TRANSFORMER-RECTIFIER TYPE, AC AND DC;
300 AMPERE RATING AT 60% DUTY CYCLE
(HARNISCHFEGER MODEL DAR-300HFSG)
FSN 3431-984-3401 (HARNISCHFEGER MODEL**

2100H2007) FSN 3431-926-3746



This copy is a reprint which includes current pages from Change 1.

HEADQUARTERS, DEPARTMENT OF THE ARMY

DECEMBER 1969

SAFETY PRECAUTIONS

BEFORE OPERATION

Do not connect the ac power to the welding machine unless the main power source switch is in the OFF position.

See that the ground terminal lug is connected through the input cable or by separate conductor to the power system ground. An ungrounded machine can cause death by electrocution to personnel coming in contact with it.

Check for leaks at all gas connections before operating this unit. A spark generated by the welding arc can cause an explosion.

Do not reposition the voltage change terminal connecting links while power source is connected to the machine. To do so could cause a serious electrical shock and possible death.

DURING OPERATION

Do not make or break any connections or perform any maintenance while power source is connected to the welding machine. To do so can cause death by electrocution.

Do not come in contact with the electrode while the machine is in operation. The high voltage generated by the machine can cause death by electrocution.

Be very careful when the unit or surrounding area is wet or damp. Coming in contact with a wet or damp unit can cause a serious electrical shock and possible death.

When malfunction of the selenium rectifier occurs, thoroughly ventilate the area to prevent inhalation of poisonous fumes. Do not handle the damaged rectifier while it is warm so as not to absorb poisonous selenium oxide compound through the skin. Failure to observe this warning can result in severe injury or possible death.

AFTER OPERATION

See that the ground terminal lug is connected through the input cable or by separate conductor to the power system ground. An ungrounded machine can cause death by electrocution to personnel coming in contact with it.

Check for leaks at all gas connections. A spark can cause the gas to explode.

Do not reposition the voltage change terminal connecting links while the power is connected to the machine. To do so could cause a serious electrical shock and possible death.

When malfunction of the selenium rectifier occurs, thoroughly ventilate the area to prevent inhalation of poisonous fumes. Do not handle the damaged rectifier while it is warm so as not to absorb the poisonous selenium oxide compound through the skin. Failure to observe this warning can result in a severe injury or possible death.

When making a test on the high frequency transformer, make sure that the transformer is on an insulated bench. Do not touch an activated transformer or the wires leading from it. To do so may cause a serious electrical shock or possible death to personnel performing the test.

Short the capacitor connections to ground before removal. Failure to do this may result in a serious electrical shock.

Change }
No. 1 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 12 April 1973

**Operator, Organizational, Direct Support, and General Support Maintenance Manual Including
Repair Parts and Special Tools List**

**WELDING MACHINE, ARC: GENERAL AND INERT GAS SHIELDED, TRANSFORMER-RECTIFIER
TYPE, AC AND DC; 300 AMPERE AT 60% DUTY CYCLE (HARNISCHFEGER MODEL
DAR-300HFSG)**

FSN 3431-984-3401 (HARNISCHFEGER MODEL 2100H2007)

FSN 3431-926-3746

TM 5-3431-213-14, 19 December 1969, is changed as follows:

Page B-1. Appendix B is superseded as follows:

APPENDIX B

BASIC ISSUE ITEM LIST AND ITEMS TROOP INSTALLED OR AUTHORIZED

Section I. INTRODUCTION

B-1. Scope

This appendix lists basic issue items, items troop installed or authorized which accompany the welding machine and are required by the crew/operator for operation, installation, or operator's maintenance.

B-2. General

This basic issue items, items troop installed or authorized list is divided into the following sections:

a. Basic Issue Items 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.

B-3. Explanation of Columns

The following provides an explanation of columns

in the tabular list of Basic Issue Items List, Section II, and Items Troop Installed or Authorized, Section III.

a. Source, Maintenance, and Recoverability Code(s) (SMR): Not applicable.

b. Federal Stock Number. This column 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 any additional description of the item required.

d. Unit of Measure (U/M). A 2 character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g., ft, ea, pr, etc.

e. Quantity Authorized (Items Troop Installed or Authorized Only). This column indicates the quantity of the item authorized to be used with the equipment.

Section III. ITEMS TROOP INSTALLED OR AUTHORIZED LIST

(1) SMR Code	(2) Federal Stock Number	(3) Description Ref No. & Mfr Code	(4) Unit of Meas	(5) Qty Auth
PC	7520-559-9618	CASE, Maintenance and Operating Manual	EA	1
PC	4210-555-8837	EXTINGUISHER, Fire	EA	1
PC	5975-878-3791	ROD ASSEMBLY, Ground	EA	1

By Order of the Secretary of the Army:

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

Official:

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

Distribution:

To be distributed in accordance with DA Form 12-25A, (qty rqr block No. 162) Organizational maintenance requirements for Welding.

**OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT
 MAINTENANCE MANUAL, INCLUDING REPAIR PARTS
 AND SPECIAL TOOLS LIST**

**WELDING MACHINE, ARC: GENERAL AND INERT GAS SHIELDED,
 TRANSFORMER-RECTIFIER TYPE, AC AND DC; 300 AMPERE
 RATING AT 60% DUTY CYCLE (HARNISCHFEGER MODEL DAR-300HFSG)
 FSN 3431-984-3401 (HARNISCHFEGER MODEL 2100H2007)**

FSN 3431-926-3746

Current as of 10 April 1969

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. These instructions are published for the use of the personnel to whom the Harnischfeger Model DAR-300HFSG and Model 2100H2007 Welding Machine is issued. Chapters 1 through 4 provide information on the operation, preventive maintenance services, and organizational maintenance of the equipment, accessories, components, and attachments. Chapter 5 provides information for direct and general support maintenance. Also included are descriptions of main units and their functions in relation to other components.

b. Numbers in parentheses on illustrations indicate quantity.

1-2. Forms and Records

a. DA Forms and records used for equipment maintenance will be only those prescribed by TM 38-750.

b. The direct reporting of errors, omissions, and recommendations for improving this equipment publication by the individual user is authorized and encouraged. DA Form 2028 (Recommended Changes to Publications) will be used for reporting these improvements. This form may be completed using pencil, pen, or typewriter. DA Form 2028 will be completed by the individual using the manual and forwarded direct to Commanding General, U.S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

Section II. DESCRIPTION AND DATA

1-3. Description

a. The Harnischfeger Model DAR-300HFSG, rectifier type AC/DC arc welding machine (fig. 1-1 and 1-3) is operated from an external power source of 208, 230, or 460 volt alternating current, and by 50 or 60 cycle single phase connections. This welder provides an electrical controlled current output for use in either shielded inert gas welding or metallic arc welding. The entire control section is located in a panel at the front of the welding machine. The welding machine can be operated by means of a remote off-on foot switch and remote output control rheostat. A range switch permits the selection of one of four desired current ranges. A soft switch permits feathering-in when the arc is started. The welding machine is equipped with a timer for spot welding and a post-purge timer for inert gas welding. The control panel includes an ac ammeter and a dc ammeter for measuring current output and an ac voltmeter and a dc voltmeter for measuring arc voltage.

b. The Model 2100H2007 (fig. 1-2) welding machine is furnished with a combination foot switch and output control. A pre-purge timer is furnished for inert gas welding.

1-4. Identification and Tabulated Data

a. *Identification.* The welding machine has two major identification plates. The information contained on these plates is listed below.

(1) *Corps of Engineers plate.*

Nomenclature	Welding Machine: Arc 300 AMP
Make	Harnischfeger
Model No.	DAR-300HFSG
Height	41 $\frac{1}{4}$ in. (inches)
Width	28 in.
Length	36 in.
Weight	790 lbs.
Contract No.	DA-11-184-AMC-256 (T)

(2) *Manufacturer's Identification and Data Plate, Model DAR-300HFSG.*

Input:
Primary volts 208/230/460

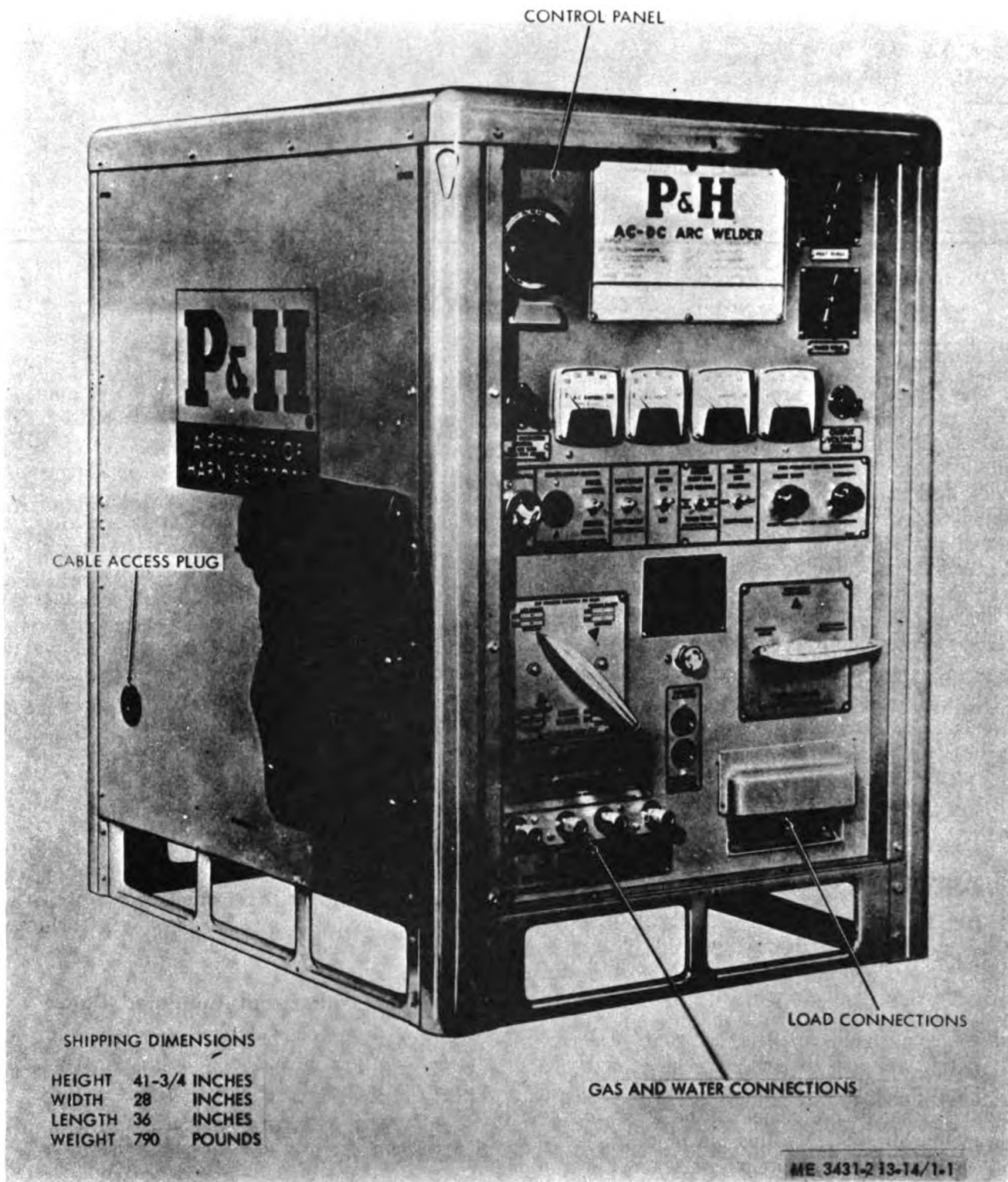


Figure 1-1. Arc welding machine right-front, three-quarter view with shipping dimensions, Model DAR-300HFSG.

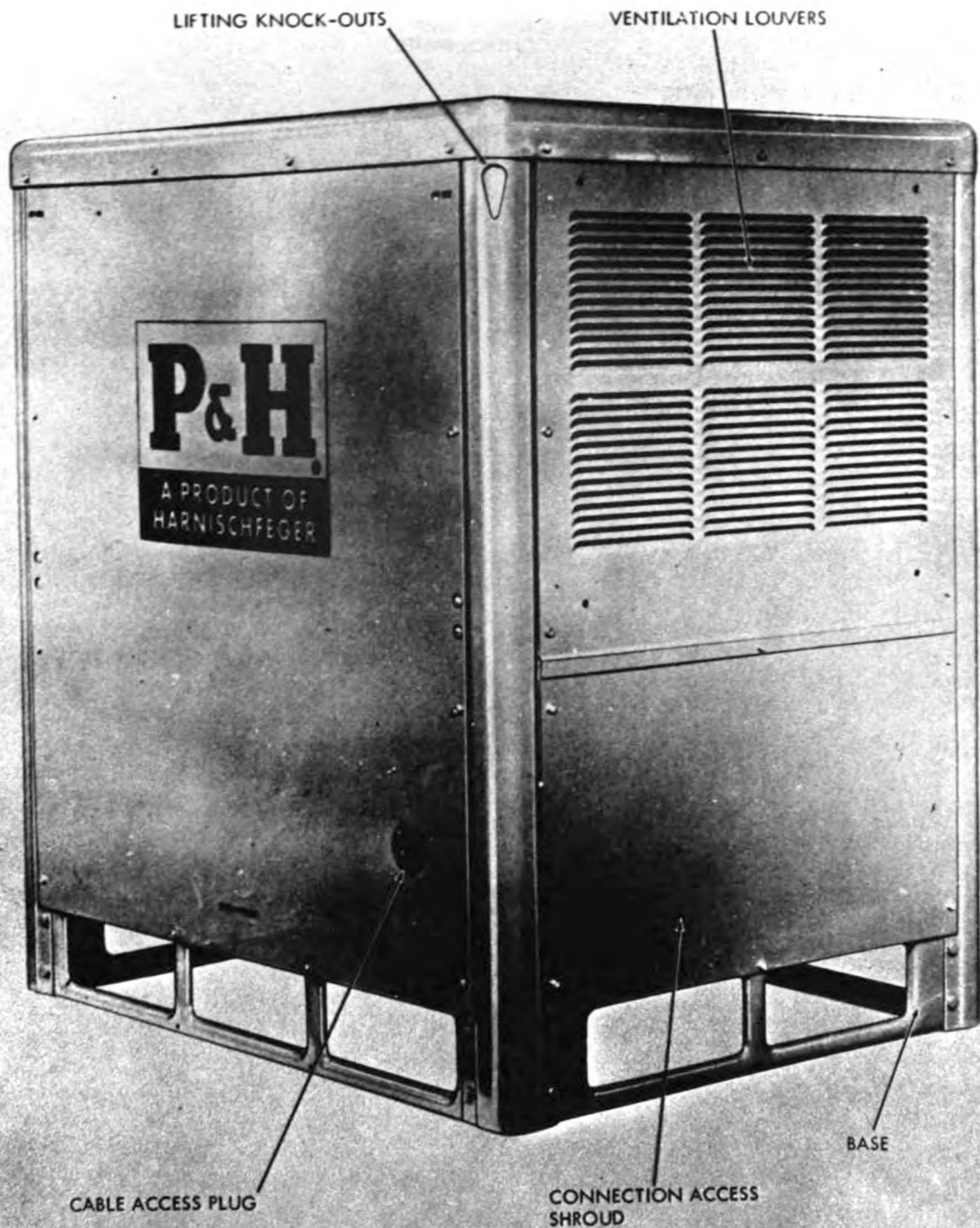


SHIPPING DIMENSIONS

HEIGHT	42	INCHES
WIDTH	28	INCHES
LENGTH	36	INCHES
WEIGHT	800	POUNDS

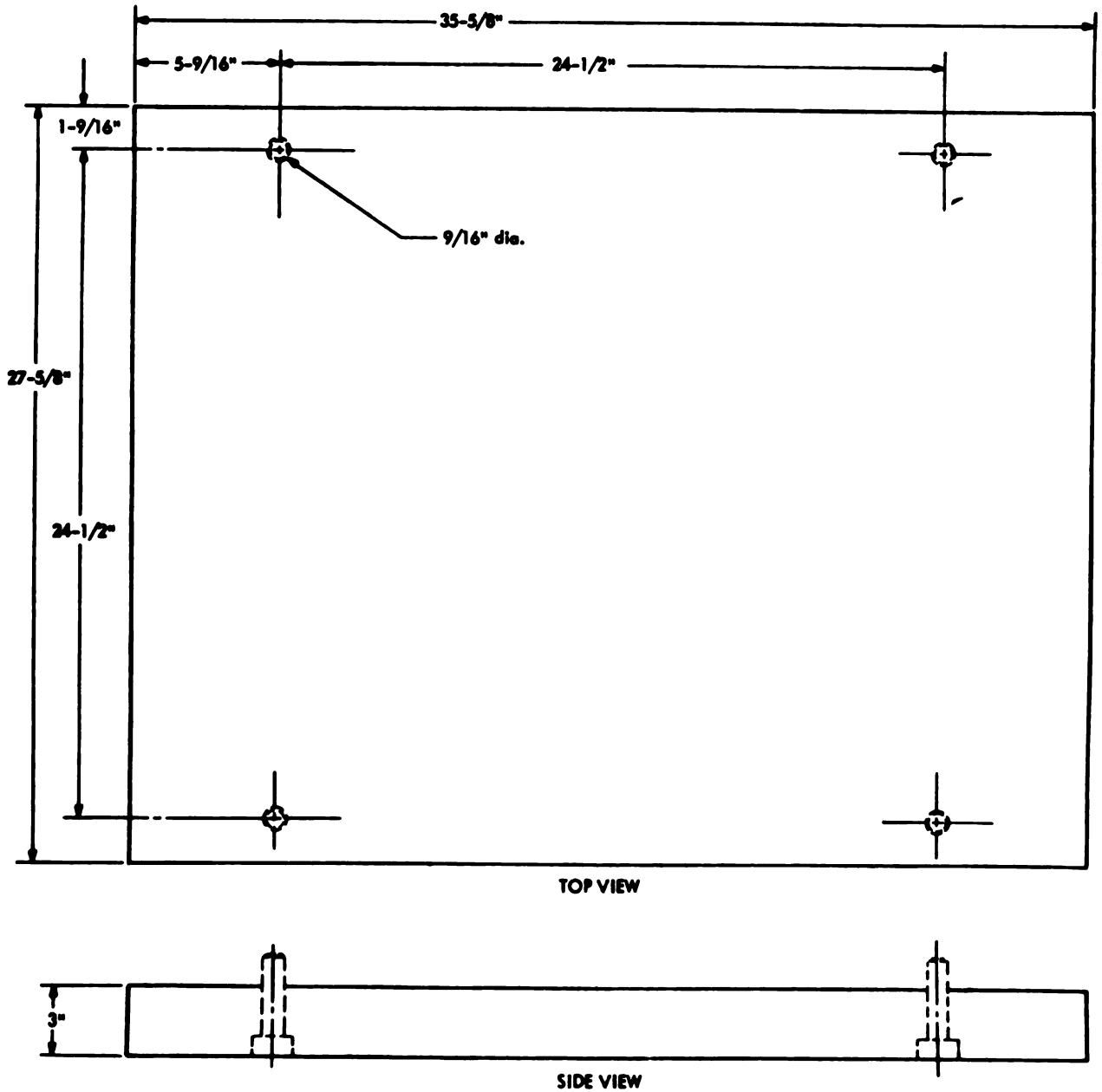
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Figure 1-2. Arc welding machine, right-front, three-quarter view with shipping dimensions, Model 2100H2007.



ME 3431-213-14/1-3

Figure 1-3. Arc welding machine, left rear, three-quarter view.



ME 3431-213-14/1-4

Figure 1-4. Base plan.

Cycles	50/60	
Phase	Single	
Output Rating:		
	<i>AC</i>	<i>DC</i>
Load volts	32	32
Load amperes	300	300
Duty cycle at rated load ..	60%	60%
Model No.	DAR-300HFSG	
Specification No.	2100H1580	

Nomenclature	Welding Machine, Arc, Constant Current, AC/DC Transformer-Rectifier Type
Contract No.	DAAK01-67-C-1505
Capacity	300 AMP AC or DC
FSN	3431-926-3746
Model No.	2100H2007
Length	36 in.
Height	42 in.
Width	28 in.

(3) U.S. Identification Plate, Model 2100-H2007.

Shipping weight 800 lb.
 Make Harnischfeger

Width 28 in.
 Length 36 in.
 Weight 790 lbs.

b. Tabulated Data.

(1) Welding machine, arc.

Manufacturer Harnischfeger
 Model DAR-300HFSG and
 2100H2007
 Type AC-DC Arc, Inert Gas

(2) Solenoid valve.

Manufacturer Controls Co. of America
 Part number 70291-063
 Voltage 115 v (volts)

(3) Fan motor.

Manufacturer Harnischfeger
 Part number 288Z15
 Rpm (revolutions per minute) 1800
 Voltage 230 v
 Cycle 60
 Phase 1
 Horsepower 1/8

(4) Contractor.

Manufacturer Arrow-Hart and Hegeman,
 Model DAR-300HFSG
 Manufacturer Clark Controller,
 Model 2100H2007
 Part number 34522-U,
 Model DAR-300HFSG
 Part number A60-290650A,
 Model 2100H2007
 Poles 4
 Ampere rating per pole 50 a (ampere)
 Voltage 115 v
 Cycles 50/60

(5) Dimensions and weight.

(a) Model 2100H2007.

Height 42 in.
 Width 28 in.
 Length 36 in.
 Weight 800 lbs.

(b) Model DAR-300HFSG.

Height 41 3/4 in.

(6) Adjustments.

Spark gap 0.006 in.

(7) Base plan. Refer to figure 1-4.

(8) Wiring diagram. Refer to figure 1-5, Model DAR-300HFSG and refer to figure 1-6, Model 2100H2007.

1-5. Difference in Models

This manual covers the Harnischfeger Models DAR-300HFSG and 2100H2007. The difference between the models is explained below.

a. An on-off foot switch and a separate remote output control rheostat are furnished with the Model DAR-300HFSG welding machine. A combination foot on-off switch and remote output control is furnished with the Model 2100H2007 welding machine.

b. A spot weld timer and a post-purge timer are furnished on the Model DAR-300HFSG welding machine. A spot weld timer, post-purge timer, and pre-purge timer are furnished on the Model 2100H2007 welding machine.

c. The control panel on the Model DAR-300HFSG welding machine includes an ac ammeter and a dc ammeter for measuring current output, and an ac voltmeter and a dc voltmeter for measuring arc voltage. No meters are furnished on the Model 2100H2007 welding machine.

d. A line on-off switch is furnished on the Model DAR-300HFSG welding machine. A line on-off switch and a start-stop pushbutton switch are furnished on the Model 2100H2007 welding machine.

CHAPTER 2

INSTALLATION AND OPERATING INSTRUCTIONS

Section I. SERVICE UPON RECEIPT OF EQUIPMENT

2-1. Inspecting and Servicing Equipment

- a. Check packing list for missing parts.
- b. Inspect for damaged parts. Check welding machine for scratches, dents, or damaged housing.
- c. Inspect for broken or damaged controls and switches.
- d. Inspect for loose or missing screws, panels and fittings.
- e. Perform daily preventive maintenance services (para 3-5).

2-2. Installations of Separately Packed Components

There are no separately packed components with the welding machine.

2-3. Installation or Setting-Up Instructions

a. *Ground and Electrode Cables Connections.* Refer to figure 2-1 and 2-2 and connect the ground and electrode cable.

Warning: Do not make or break any connection or perform any maintenance while the welding machine is in operation. The high voltage created by this machine can cause death by electrocution.

Note. When installing welding machine allow at least 18 inches on all sides to insure adequate ventilation.

b. *Water Connections.* Refer to figures 2-1 and 2-2 and connect suitable pipe and fittings to the welding machine. The solenoid valve controlling the water flow is capable of handling pressures up to 200 psi and will withstand temperatures up to 150° F.

c. *Gas Connections.* Refer to figure 2-1 and 2-2 and connect suitable pipe and fittings to the welding machine.

Warning: Check for leaks at all gas connections before operating the unit. A spark generated by this unit can cause an explosion.

d. *Radio Interference.*

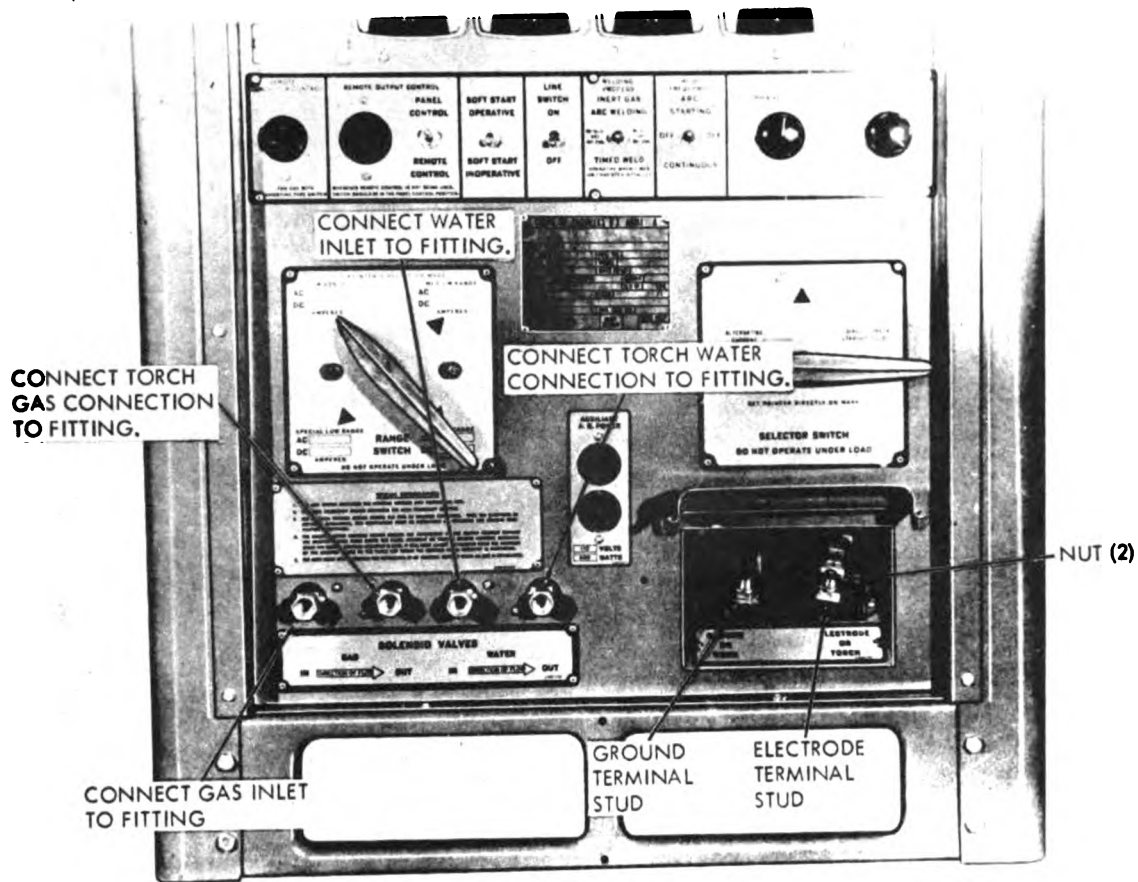
(1) The Federal Communications Commission has established limits for the permissible radiation from high frequency stabilized arc welders.

(2) Tests indicate that the equipment covered by this manual can be reasonably expected to meet the Federal Communications Commission's limits if installed, maintained and operated in accordance with the instructions included in this manual.

(3) In spite of all precautions taken by the manufacturer, it is still possible for this equipment to produce radio interference if the installation is not carefully made. Therefore, the user must take all possible steps to install and operate this equipment in accordance with all of these recommendations.

(4) Should this equipment cause radio interference, it is the user's responsibility to take immediate steps to eliminate such interference. The manufacturer will assist the user by supplying technical information.

(5) The degree of interference caused by a high frequency stabilized welder installation will, to a large extent, depend upon local conditions. One of the most important factors is the strength of the desired signal from the broadcast station as related to the strength of the unwanted signal from the welder installation. The closer the radio receiver is to the welder installation, the more likely it is to pick up interference. Similarly the closer the radio receiver is to the broadcasting station, the more likely it is to get interference-free reception. The more powerful the broadcasting station, the less probability there is of interference from a welder installation for any given distance. Thus, in a locality served by a number of powerful nearby broadcasting stations, good reception can be obtained from a radio receiver located fairly near a welder installation but, in an area remote from broadcasting stations, a high



NOTE: REMOVE NUT (2). CONNECT GROUND AND ELECTRODE CABLES. REPLACE NUT.

ME 3431-213-14/2-1 ①

A. Load, gas and connections.

Figure 2-1①. Connections, Model DAR-300HFSG.

frequency stabilized welder installation may cause interference over a wider area.

(6) There are many electrical devices which can cause radiation and, in most cases, it is easy to distinguish between the radiation from these devices and that coming from a high frequency stabilized welder installation. However, it has been found that there are some electrical devices which are capable of causing radio interference and which, in a radio receiver, are almost identical with the interference caused by a welder. Therefore, in all cases where there is a complaint, a quick check should be made to determine if the interference is actually being caused by the welder. The easiest way to do this is to listen in on the radio receiver in which interference is occurring while the welder is being turned on and off. Where more than one welder is being used, each should be tested individually with the other turned

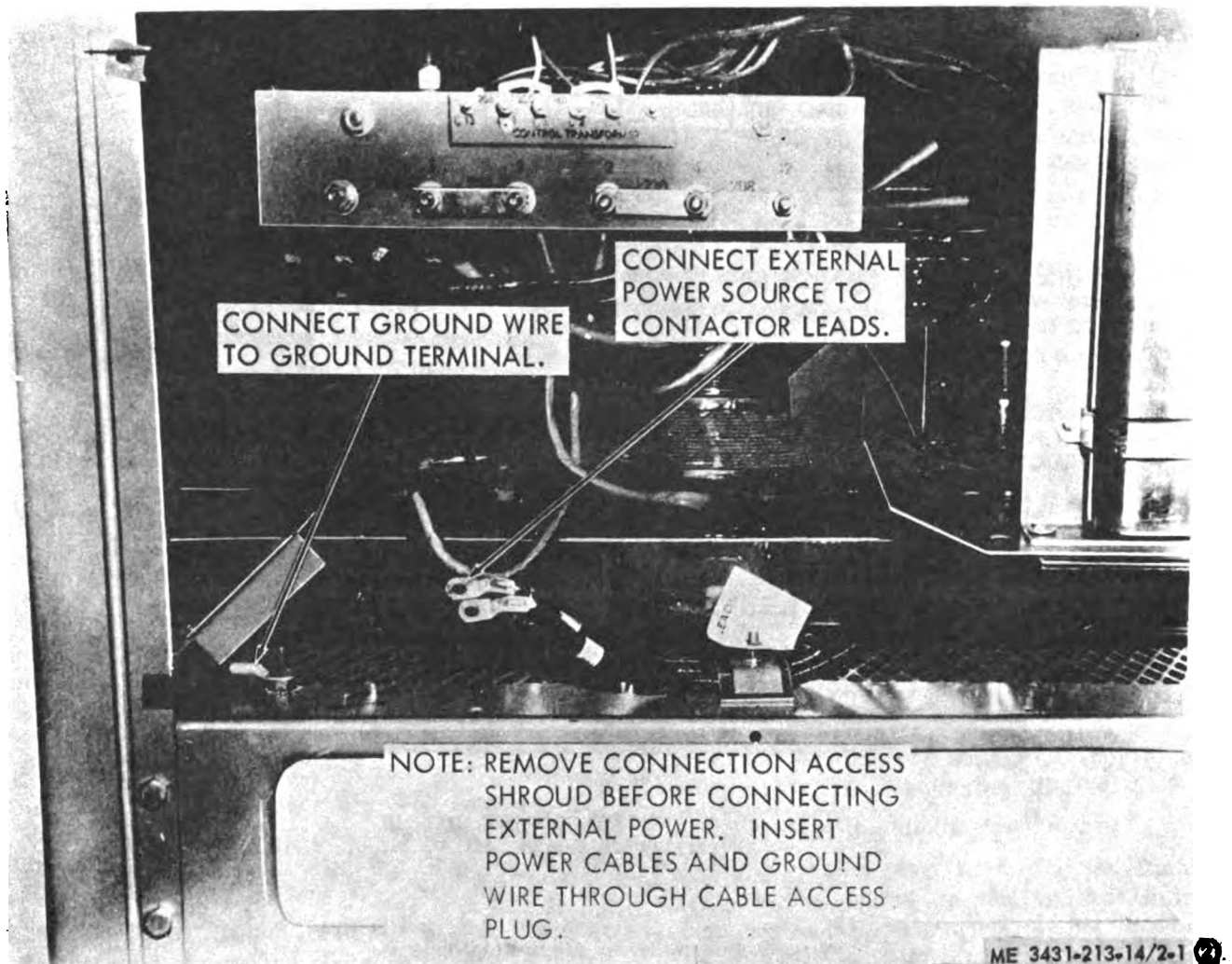
off. If the interference does not stop when the welder is turned off, obviously the welder is not causing the interference.

Note. The amount of radiation from any installation can be very greatly reduced if the installation is properly made. Factors such as the proper grounding of the welding equipment and the shielding of exposed wires enter into making a good installation.

(7) Installation of High Frequency Stabilized: Arc Welders and related equipment should be made in accordance with instructions in this manual.

e. General Instructions for all Installations.

(1) The following steps should be taken on all installations. This procedure will substantially reduce the radiation, and the installation will be less likely to cause radio interference than an installation made in a haphazard manner. The wider the spark gap setting, the greater is the power



B. External power source and ground connections.

Figure 2-1ⓐ—Continued.

which is radiated and an unnecessarily large setting could cause excessive radio interference.

(2) Make sure that the spark gaps of the high frequency unit are at the smallest setting which will give satisfactory welding results. The recommended maximum gap setting is 0.006 inches.

(3) Use the shortest welding leads which can conveniently be used. Keep the welding leads on or near the floor.

(4) Properly ground the welding circuit in accordance with the instructions given.

(5) Many high frequency stabilized arc welder installations have been made in small corrugated-iron buildings. While such buildings are supposed to act as shields to prevent radiation, it has been found that unless the building is properly grounded, it may actually act as a radiator. Therefore, it is advisable to provide several grounds

around the perimeter of the buildings. These grounds can be made with metal pipe or ground rods, and a good copper braid connection should be made from the ground rod to the metal walls of the building. For best results, the earth around these ground rods should be treated.

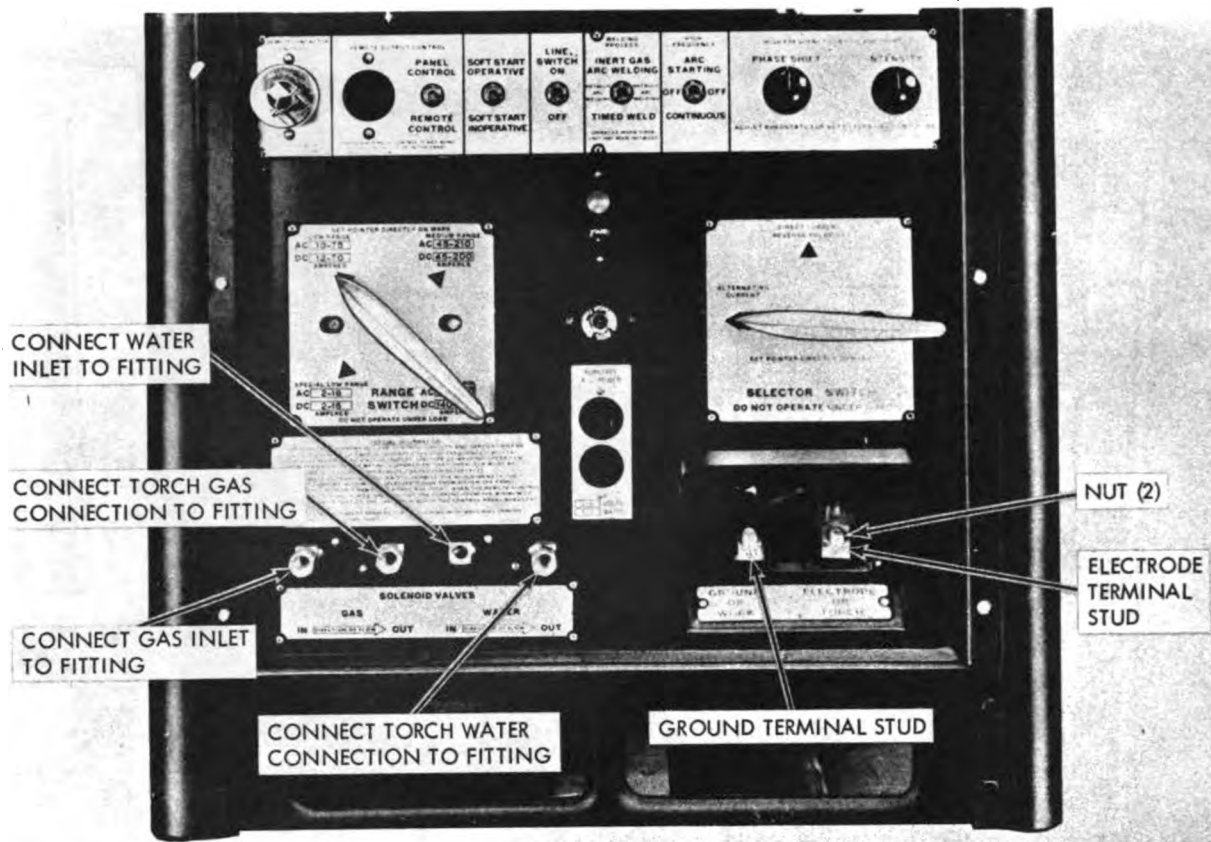
f. Grounding the Welding Circuit.

(1) *Ground selection.*

(a) Proper grounding of the welding circuit will greatly reduce the interference in most cases. It is very important that not more than one ground be used anywhere in the welding circuit. Tests have shown that the best place to make the ground connection in the welding circuit is usually to the work terminal of the welder.

(b) This ground should be as short and as direct as possible.

(c) Water pipes, electrical conduit systems,



NOTE: REMOVE NUT (2), CONNECT GROUND AND ELECTRODE CABLES. REPLACE NUT.

ME 3431-213-14/2-2

Figure 2-2. Connections, Model 2100H2007.

etc., usually make excellent protective grounds for electrical systems, but, in general, they should not be used as grounds in high frequency installations.

(d) If a water pipe enters the ground not more than 8 or 10 feet from the welder, it may make a satisfactory ground. However, if the water pipe runs above the ground level for some distance before it enters the ground, it will not be satisfactory. The steel frame of a building or the walls of a corrugated-iron building are not satisfactory and should not be used for grounding.

(e) It has been found that the best ground is a copper-weld ground rod driven into the ground as close as possible to the machine. Copper-weld ground rods are standard devices which are used by electric power and telephone companies for ground purposes, and they can be obtained from any large electrical supply house. They consist of a pointed steel rod with a heavy copper coating welded to the steel core. They are easy to drive into the ground and will last much longer than steel pipe or other substitutes. In an

emergency, an ordinary steel or brass pipe can be used, but, in general, it will be found that rust and electrolytic corrosion will rapidly destroy the pipe, particularly because of the ground treating electrolyte which will be in contact with the pipe if recommended procedure is followed.

(f) It is recommended that a rod having a length of 8 feet and a diameter of either $\frac{1}{2}$ or $\frac{5}{8}$ inch be used. The connection from the ground rod to the work terminal of the welder or high frequency unit should be made by means of heavy copper braid, using standard copper-weld clamps. Refer to figure 2-3. The copper braid should consist of at least 240 strands of No. 30 wire, or its equivalent, and should in no case be smaller than the work lead of the welder. (A heavier braid can be used.)

(g) When the welder is located near an outside wall and the earth beyond this wall is exposed, the ground rod can be placed outside the building where a ground lead more than 8 feet in length is required to reach an outside ground rod,

it is best to use a ground rod inside the building, immediately adjacent to the welder. Where the building has a concrete floor, it will be necessary to make an opening approximately 6 inches in diameter all the way through the concrete floor in order to be able to properly treat the earth around the ground rod. The ground rod should be driven below the level of the concrete surface and a cover provided to avoid accidents.

(2) *Soil treatment for good ground.* The amount of reduction in radiation which a good ground will produce will depend upon the ground resistance. The lower the resistance between the ground rod and the surrounding earth, the lower will be the radiated signal. It has been found that if the earth around the ground rod is treated with a conducting solution known as an electrolyte the signal will be lowered by an appreciable amount.

(3) *Outside ground.* Dig a circular trench around the ground rod as shown. Place in this trench 20 to 30 pounds of copper sulphate, magnesium sulphate, or salt. Then flood the trench several times and allow the water to sink into the ground. The trench can then be covered over with earth. Normal rainfall will generally keep the ground moist enough to continually dissolve more salt which will continually renew the electrolyte, thus maintaining a low ground resistance. (Refer to A, fig. 2-3.)

(4) *Inside ground.* Fill the 6 inch diameter hole around the ground rod with copper sulphate, magnesium sulphate, or rock salt and flood this a number of times until at least 8 to 10 pounds have dissolved and soaked into the earth. Then fill the hole with salt and let it remain in this condition. It will be necessary to flood the hole periodically in order to keep enough electrolyte in the ground circuit. Therefore, provide a removable cover instead of pouring concrete around the ground rod.

(5) *Grounding of welders.*

(a) The welder should be grounded by running a piece of braid from a connection on the welder enclosure to the work terminal of the welder. Do not run a separate ground to the enclosure as, under certain conditions, this may greatly increase the amount of radio interference.

(b) The work or work table should not be grounded since the addition of a ground at this point will generally increase the amount of radiation. If, for any reason, it is impossible to avoid a ground at the work or work table, then put the ground rod near the work table, making this the only ground in the system. The ground connection to the enclosure of the welder can still be con-

nected to the work terminal of the welder. However, the welder will secure its ground through the ground lead of the welding circuit, to the work table, and thence to the ground rod. The welder case should not be grounded by means of a third conductor in the primary cable. The welder should not be operated unless the case is grounded in accordance with foregoing.

g. Radiated Energy from Welder Equipment.

(1) *Welder leads.*

(a) The manner in which the noise is radiated will depend upon the type of installation. In an installation in which all of the power wiring, lighting wiring and telephone wires are shielded or are remote from the high frequency unit, the major part of the radiation will be directly from the welding leads. In most cases, the amount of radiation will be too small to cause any interference.

(b) The amount of radiation is dependent upon the length of the welding leads; the longer the welding leads, the greater the radiation. Therefore, the welding leads should be made as short as possible, consistent with convenience in welding but should not exceed 25 feet.

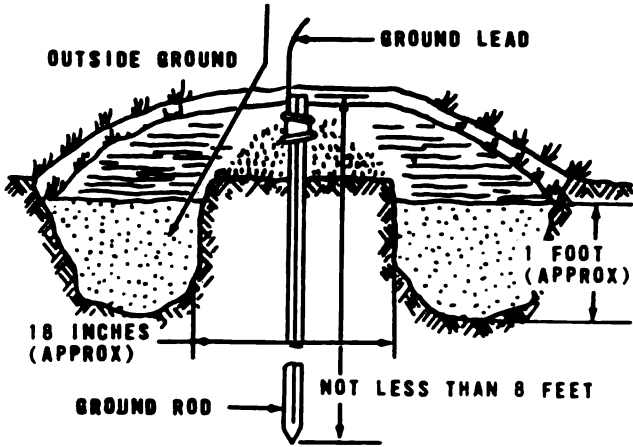
(2) *Electromagnetic coupling.*

(a) In all cases, the initial radiation comes almost entirely from the welding leads. In installations where the power wiring is not in conduit or where there are unshielded lighting, telephone, or control wires near the welder, another factor must be considered.

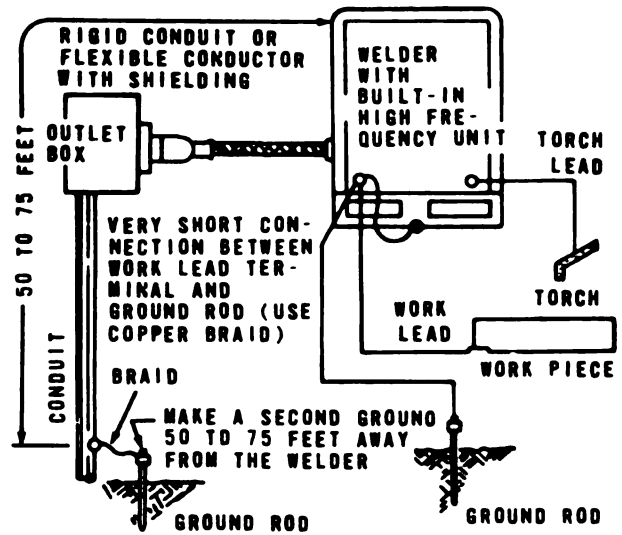
(b) Any circuit which carries current sets up around itself a field which extends for some distance in all directions. Any other circuit which is within the influence of this field is said to be coupled to the first circuit. Thus, a circuit such as the welding leads which is carrying a high frequency current can transfer a part of this current from the welding leads to other unshielded power wiring, telephone wires, etc. These wires will in turn, act as antennas which will also radiate the high frequency current. Since these unshielded wires are usually considerably longer and higher than the welding leads, they are much better radiators than the welding leads. Therefore, in an installation of this type, the radiation into space from the power wiring and other unshielded wiring can be many times as great as the radiation from welding leads alone (fig. 1-5 and 1-6).

(c) It has been established by tests and measurements that, in most cases, very little of the energy in the power wires reaches the power wires by passing back through the welding equip-

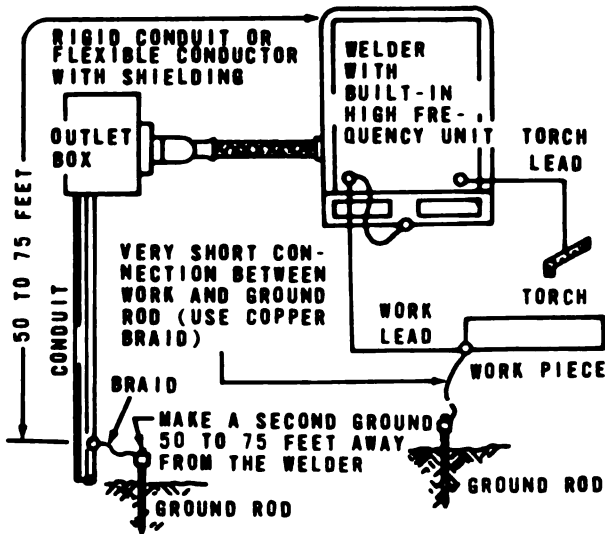
SOIL TREATING MATERIAL PLACED IN CIRCULAR TRENCH AND COVERED WITH EARTH



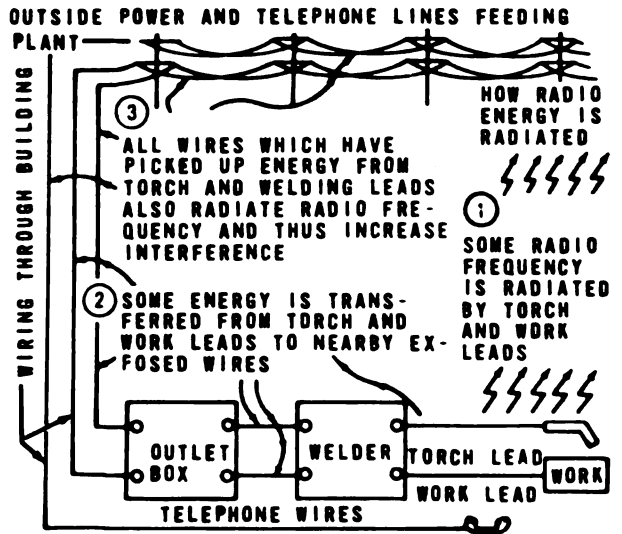
A. GROUND ROD INSTALLATION.



B. CONNECTION FOR INSTALLATION IN PLANT WITH WIRING IN CONDUIT AND NO GROUND CONNECTION TO WORK (PREFERRED).

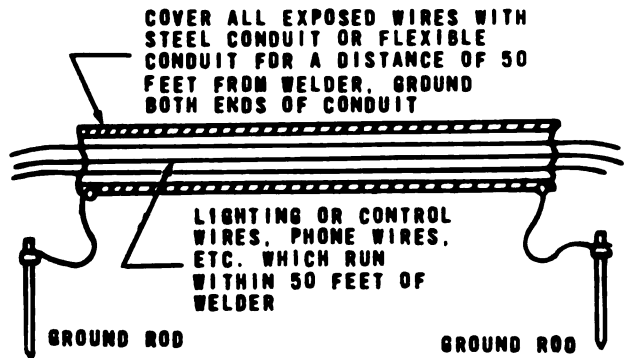


C. CONNECTION FOR INSTALLATION IN PLANT WITH WIRING IN CONDUIT AND GROUND CONNECTION TO WORK (ALTERNATE)



D. RF INTERFERENCE PROPAGATION.

E. CONNECTION FOR INSTALLATION IN PLANT WITH OPEN WIRING.



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Figure 2-3. Welding machine grounding instructions.

ment. As appreciable coupling between the circuits of welding leads and the unshielded wires can take place when the unshielded wires are in the vicinity of the welding leads, all of the wiring in the welding area as well as the wiring to the welding equipment itself should be placed in conduit or shielded in the manner described herein.

(3) *Direct radiation from the welders.* The metal enclosure of the welder, if properly grounded, will practically eliminate any radiation from inside the machine. However, if the doors are left open, the shielding benefit of the enclosure is lost and interference trouble might result.

(4) *Shielding of plant wiring.* If the plant wiring is not in conduit, shield or change the location of all unshielded wiring for a distance of 50 feet from the welding leads. This includes telephone, lighting, control and signal wiring, as well as power wiring (fig. 2-1 and 2-2).

(5) *Power lines.*

(a) Usually installations having open power wiring cause the most radiation. As previously noted, radio frequency energy in the welding leads will couple to any unshielded wires in the vicinity of the welder and these, in turn, will reradiate the signal. Therefore, it is necessary to avoid coupling to any unshielded wires such as electric power wires, electric lighting wires, telephone wires, buzzer wires, or any other wires in the vicinity.

(b) If the building wires are in a conduit which is properly grounded in accordance with these instructions there are no other exposed wires near the welding machine, there usually will be no coupling into the wiring system of the building, and practically all of the radiation will be from the welding leads alone. However, even a few feet of exposed wire near the welding leads will pick up enough energy to cause considerable interference.

(c) Therefore, the wires connecting the welding transformer to the building wiring which is in conduit should be covered with a shield from end to end with no gap and with a good connection from the shield to the welding transformer case and to the conduit box. If there are any unshielded telephone, lighting or power wires in the vicinity of the welding transformer, all such wires should be enclosed in a shield for a distance of at least 50 feet in all directions from the welder and welding leads. This shield should be connected to a ground at some point near the welder and to another ground at the extreme end of the shields.

h. Check List of High Frequency Stabilized Arc-Welding Equipment Installation.

(1) Insure that the power leads to the high frequency stabilized equipment are in rigid metallic conduit.

(2) If rigid metallic conduit is not used, use equivalent copper braid sleeving or lead covered cable, etc.

Note. Spirally wound flexible metallic conduit is not suitable for this purpose unless very well bonded.

(3) Insure that there is a good electrical connection between the conduit and welding equipment cases and between conduit and service box or switch.

(4) Insure that the service conduit system is grounded at a point at least 50 feet away from the welding equipment case.

(5) If the conduit is coupled, insure that the joints are bonded within a distance of a 50-foot radius from the equipment.

(6) All unshielded power, light, telephone, and communication system wires originally in this 50-foot radius zone must be placed in grounded shields as specified or relocated outside of this zone. This applies to wires in and outside the building, guy and support wires, and large metallic objects.

(7) Insure that the case is connected to the work terminal of the equipment with a copper braid.

(8) Insure that the work terminal is connected to a good electrical ground with copper braid required size. (Should be equivalent to or greater than welding lead size.)

(9) Insure this ground cable is as short as possible. (8 feet or less.)

(10) If driven ground rods are used for grounds, they must be in moist or treated soil.

(11) If a cold water pipe is used for ground, it must enter the ground within 8 feet of the connection.

(12) All ground connections must be clean and tight.

(13) If unit is operated in a metal building, the building must be properly grounded.

(14) The welding leads must be as short as possible. (Not over 25 feet long.)

(15) The welding leads should be on the floor and as close together as possible.

(16) All doors and panels of equipment should be closed and bolted.

(17) The spark gaps should be set at the lowest gap possible for good welding operation. (Not over 0.006".)

(18) In some cases it may be necessary to shield the electrode cable with copper braid and ground this shield to the equipment case.

(19) If the installation has been so the above questions can be answered in the affirmative, the equipment may reasonably be expected to meet the radiation limits set by the Federal Communications Commission.

2-4. Equipment Conversion

a. *General.* The welding machine can operate on 208, 230, or 460 volts by the correct positioning of the voltage change terminal connecting lines.

b. Voltage Change Bar Positioning.

(1) Remove the screw attaching the connection access shroud and remove the connection access shroud. Refer to figure 1-3.

(2) Refer to the wiring diagram, figures 1-5 and 1-6, and place voltage change terminal connecting links in the desired position.

Warning: Do not reposition voltage change terminal connecting links while power source is connected to the machine. To do so could cause a serious electrical shock and possible death.

3) Voltage change terminal connecting links must be positioned for the same voltage on both the main terminal board and the control transformer terminal board. Refer to figure 3-9.

Section II. MOVEMENT TO A NEW WORKSITE

2-5. Dismantling for Movement

a. Disconnect load connections, external power and ground connections and gas and water connections (para 2-3).

b. If the welding machine is to be moved within a building it can be skidded or moved with a forklift. If the welding machine is to be moved other than for a short distance, cover the water and gas connecting fittings and load it on a truck or other conveyance with a suitable lifting device.

c. If it is desired to move the welder by means

of an overhead crane, press in the "slugs" for lanced lifting holes located in the corner posts.

Warning: When using a lifting device to move the welding machine make sure that it has a safe lifting capacity of at least 1,000 pounds. Do not allow the welding machine to swing freely when being lifted. Failure to observe this warning may cause damage to the equipment or serious injury to personnel.

2-6. Reinstallation After Movement

Refer to paragraph 2-3 for reinstallation instructions.

Section III. CONTROLS AND INSTRUMENTS

2-7. General

This section describes, locates, illustrates and furnishes the operator, crew, or organizational maintenance personnel sufficient information about the various controls and instruments for proper operation of the welding machine.

2-8. Controls and Instruments

The purpose of the controls and instruments and the normal and maximum reading of the instruments are illustrated in figure 2-4 and 2-5.

OUTPUT CONTROL RHEO-STAT. CONTROLS WELDING AMPERAGE WITHIN SELECTED RANGE. NORMAL POSITION DETERMINED BY WORK TO BE DONE.

TIMED WELD TIMER. CONTROLS WELDING TIME FOR SPOT ARC WELDING. NORMAL POSITION DETERMINED BY TYPE OF WORK TO BE DONE.

POST-PURGE TIMER. CONTROLS FLOW OF GAS AND WATER. NORMAL POSITION DETERMINED BY TYPE OF WORK TO BE DONE.

AC AMMETER AND VOLT-METER. INDICATES CURRENT AND VOLTAGE OF AC WELDING ARC. NORMAL READING IS DETERMINED BY WORK REQUIREMENTS.

DC AMMETER AND VOLT-METER. INDICATES CURRENT AND VOLTAGE OF DC WELDING ARC. NORMAL READING IS DETERMINED BY WORK REQUIREMENTS.

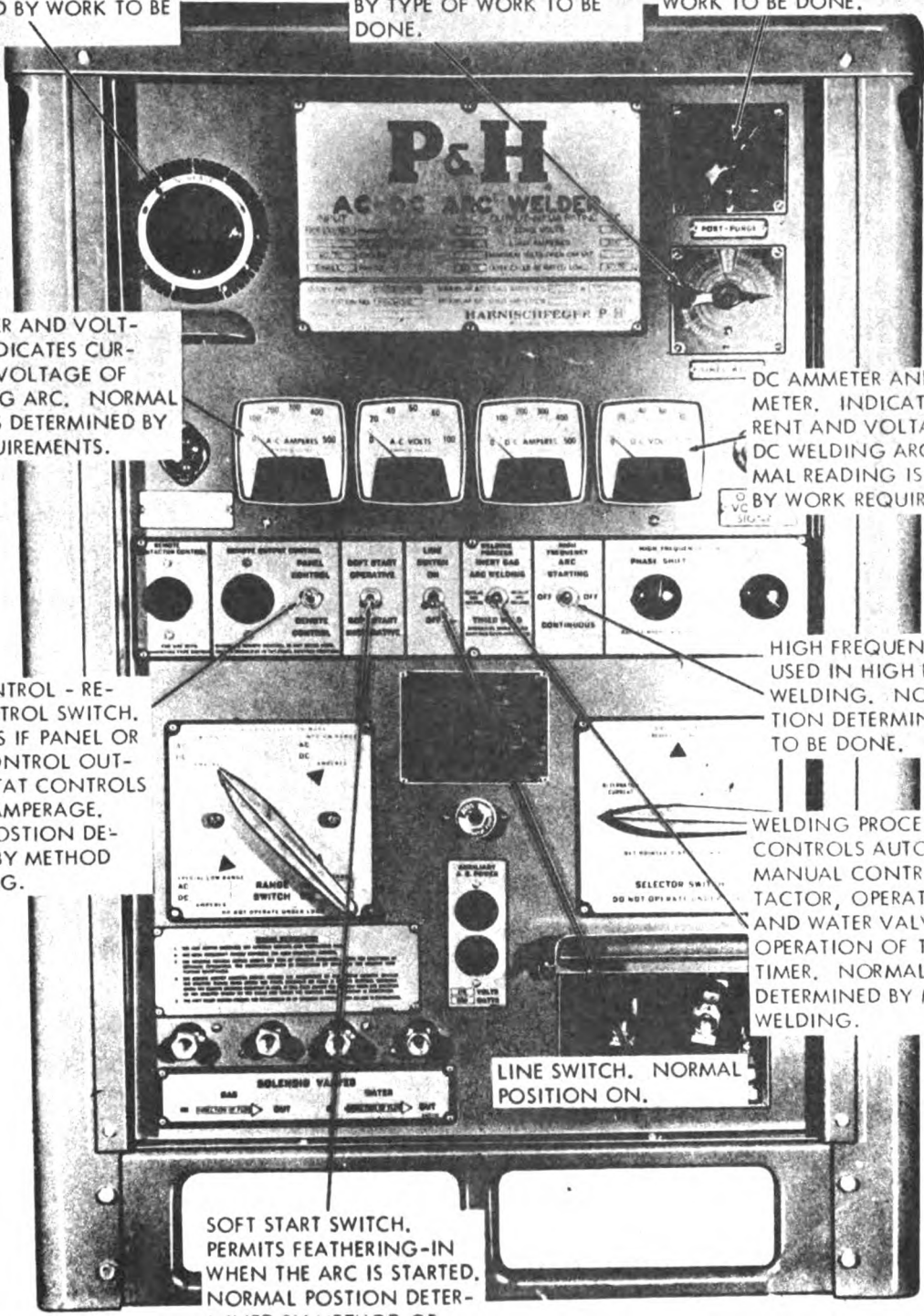
PANEL CONTROL - REMOTE CONTROL SWITCH. DETERMINES IF PANEL OR REMOTE CONTROL OUTPUT RHEOSTAT CONTROLS WELDING AMPERAGE. NORMAL POSITION DETERMINED BY METHOD OF WELDING.

HIGH FREQUENCY SWITCH. USED IN HIGH FREQUENCY WELDING. NORMAL POSITION DETERMINED BY WORK TO BE DONE.

WELDING PROCESS SWITCH. CONTROLS AUTOMATIC OR MANUAL CONTROL OF CONTACTOR, OPERATION OF GAS AND WATER VALVES, AND OPERATION OF TIMED WELD TIMER. NORMAL POSITION DETERMINED BY METHOD OF WELDING.

LINE SWITCH. NORMAL POSITION ON.

SOFT START SWITCH. PERMITS FEATHERING-IN WHEN THE ARC IS STARTED. NORMAL POSITION DETERMINED BY METHOD OF WELDING.



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Figure 2-40. Controls, Model DAR-300HFSG.

OUTPUT CONTROL RHEOSTAT, CONTROLS WELDING AMPERAGE WITHIN SELECTED RANGE. NORMAL POSITION DETERMINED BY WORK TO BE DONE.

TIMED WELD TIMER, CONTROLS WELDING TIME FOR SPOT ARC WELDING. NORMAL POSITION DETERMINED BY TYPE OF WORK TO BE DONE.

POST-PURGE TIMER, CONTROLS FLOW OF GAS AND WATER. NORMAL POSITION DETERMINED BY TYPE OF WORK TO BE DONE.

AC AMMETER AND VOLT-METER, INDICATES CURRENT AND VOLTAGE OF AC WELDING ARC. NORMAL READING IS DETERMINED BY WORK REQUIREMENTS.

DC AMMETER AND VOLT-METER, INDICATES CURRENT AND VOLTAGE OF DC WELDING ARC. NORMAL READING IS DETERMINED BY WORK REQUIREMENTS.

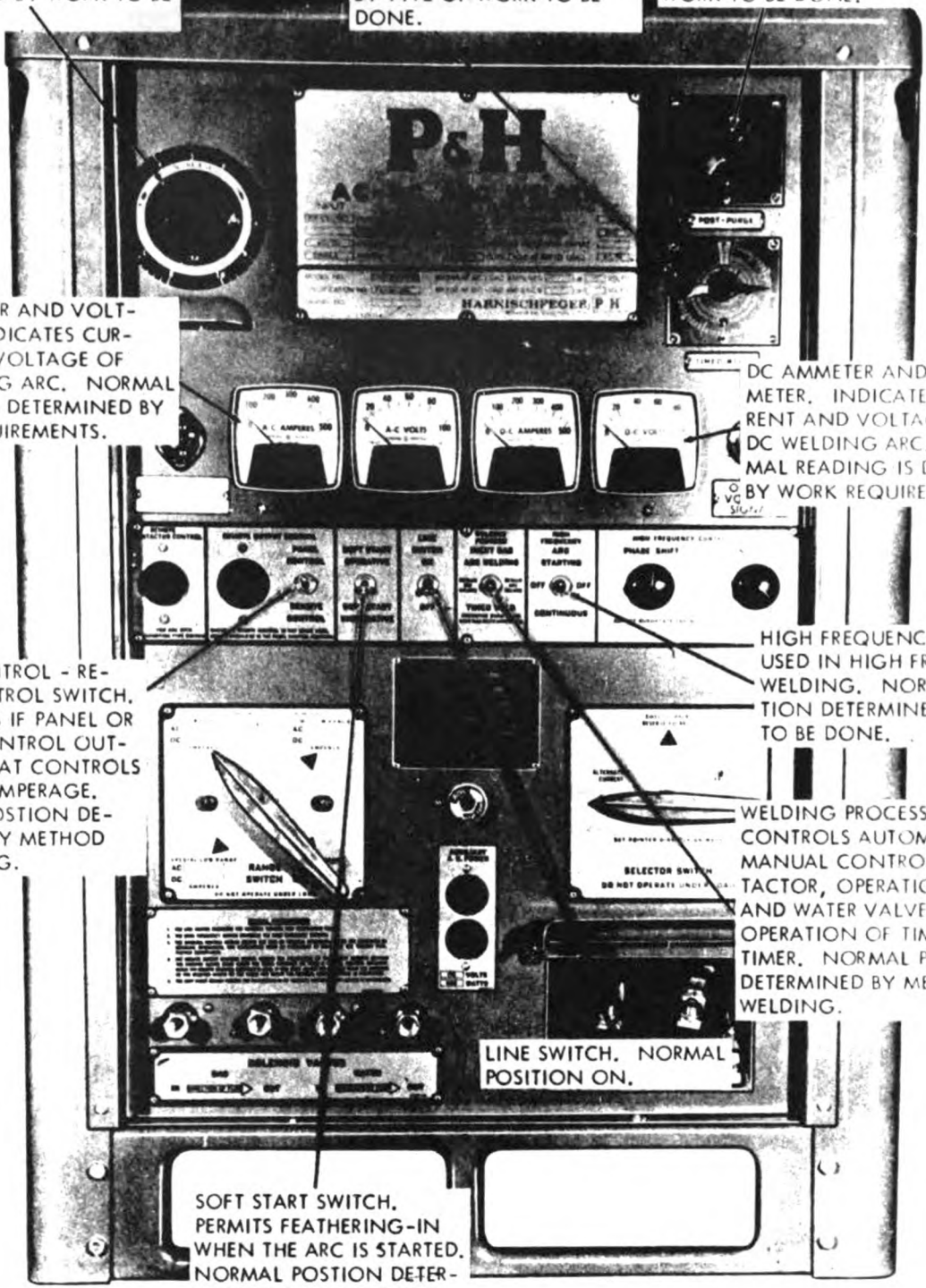
PANEL CONTROL - REMOTE CONTROL SWITCH, DETERMINES IF PANEL OR REMOTE CONTROL OUTPUT RHEOSTAT CONTROLS WELDING AMPERAGE. NORMAL POSITION DETERMINED BY METHOD OF WELDING.

HIGH FREQUENCY SWITCH, USED IN HIGH FREQUENCY WELDING. NORMAL POSITION DETERMINED BY WORK TO BE DONE.

WELDING PROCESS SWITCH, CONTROLS AUTOMATIC OR MANUAL CONTROL OF CONTACTOR, OPERATION OF GAS AND WATER VALVES, AND OPERATION OF TIMED WELD TIMER. NORMAL POSITION DETERMINED BY METHOD OF WELDING.

LINE SWITCH. NORMAL POSITION ON.

SOFT START SWITCH, PERMITS FEATHERING-IN WHEN THE ARC IS STARTED. NORMAL POSITION DETERMINED BY METHOD OF WELDING.



ME 3431-213-14/2-4 ②

Figure 2-4②—Continued.

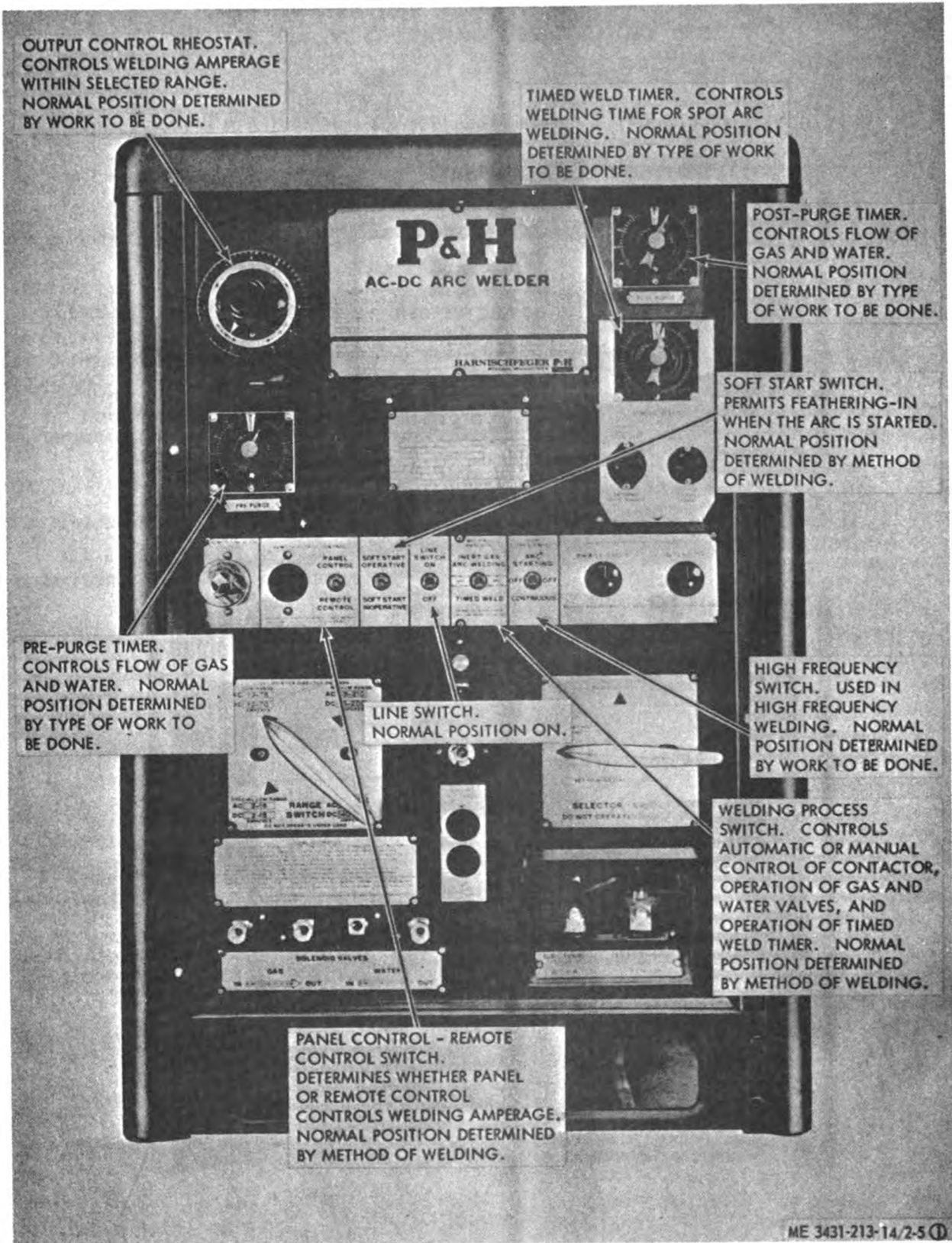
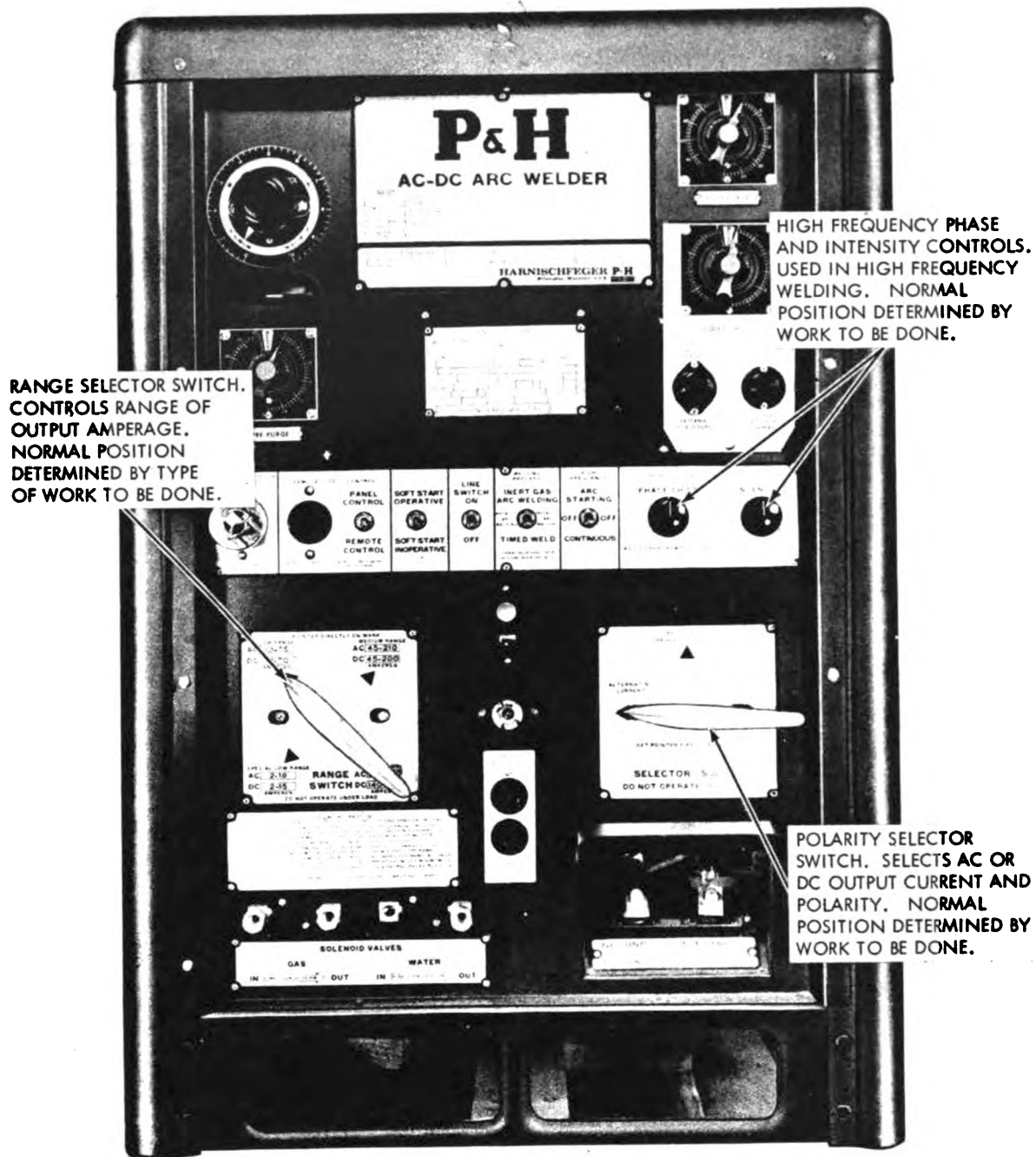


Figure 2-5①. Controls, Model 2100H2007.



ME 3431-213-14/2-5 (2)

Figure 2-5(2)—Continued.

Section IV. OPERATING UNDER USUAL CONDITIONS

2-9. General

a. The instructions in this section are published for the information and guidance of the personnel responsible for operation of the welding machine.

b. The operator must know how to perform every operation of which the welding machine is capable. This section gives instructions on starting and stopping the welding machine, basic capabilities of the welding machine, and various settings of controls to enable the welding machine to perform different types of welding for which it is designed. Since nearly every job presents a different problem, the operator may have to vary given procedures to fit the individual job.

2-10. Starting

a. *Preparation for Starting.*

(1) Perform the necessary daily preventive maintenance checks and services (para 3-5).

(2) Clean area on item to be welded to make a good connection.

(3) Connect the ground clamp.

b. *Starting.* Refer to figures 2-6 and 2-7 and start the welding machine.

2-11. Stopping

a. Refer to figures 2-8 and 2-9 and stop the welding machine.

b. Remove ground clamp from item which was being welded.

2-12. Operation of Equipment

a. Start the welding machine (para 2-10).

b. Refer to table 2-1 and select the proper electrode.

Table 2-1. Electrode Size for Applied Current

Tungsten electrode size (diameter)	Welding current (amp)
0.040 in.	40-60
$\frac{3}{32}$ in.	50-100
$\frac{1}{16}$ in.	100-160
$\frac{3}{16}$ in.	150-210
$\frac{1}{8}$ in.	200-275
$\frac{5}{16}$ in.	250-350
$\frac{3}{8}$ in.	325-475

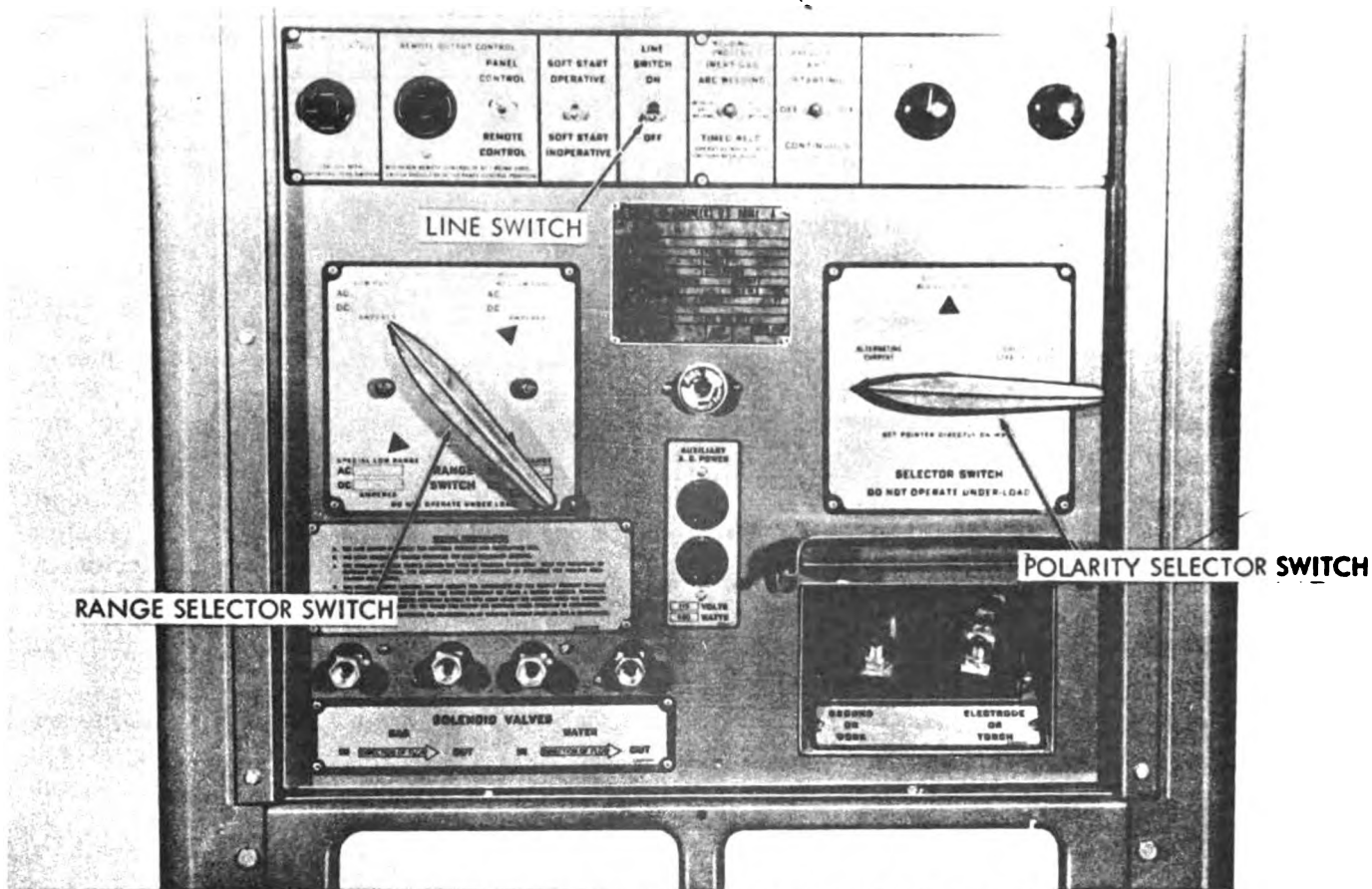
c. Test for proper setting. Use a sample piece of metal, like the metal to be welded and adjust the welding amperage to produce the correct arc necessary for the welding to be done.

Warning: Do not come in contact with the electrode while the welding machine is operating. The high voltage generated by the machine can cause death by electrocution.

d. Refer to figures 2-10 and 2-11 and operate the welding machine.

Warning: Before operating the welding machine see that the ground terminal lug is connected through the input cable or by separate conductor to the power system ground. An ungrounded welding machine can cause death by electrocution to personnel coming in contact with it.

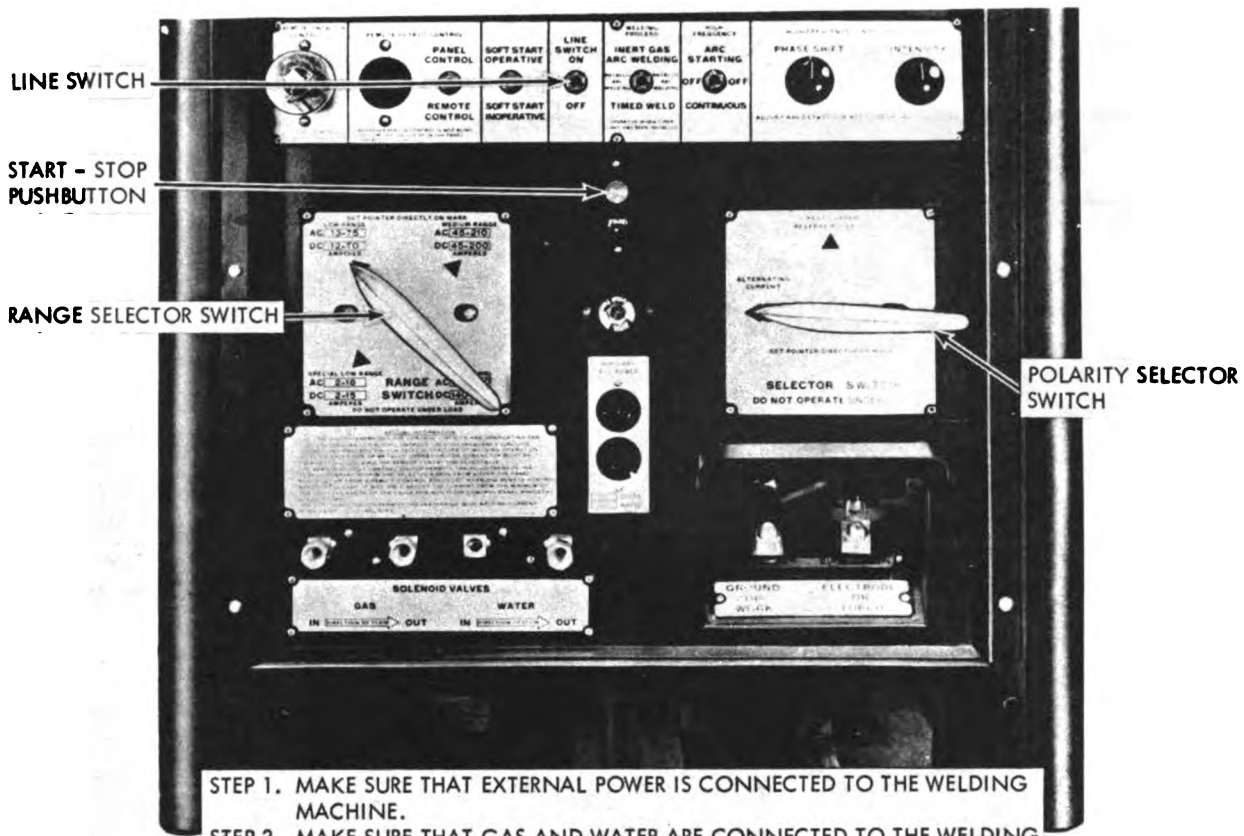
Note. This welding machine is equipped with a remote receptacle and can be operated by remote control. When using remote control, the panel control-remote control switch must be in the remote control position. When remote control is used, the maximum current available will be limited by the setting of the output panel rheostat. If full range is necessary, the panel output control rheostat must be set wide open. The welding machine is also equipped with a remote contactor control receptacle for activation of the contactor by a foot switch and a remote contactor receptacle for activation of the contactor by an external 115 volt ac source.



- STEP 1. MAKE SURE THAT EXTERNAL POWER IS CONNECTED TO THE WELDING MACHINE.
- STEP 2. MAKE SURE THAT GAS AND WATER ARE CONNECTED TO THE WELDING MACHINE IF INERT GAS WELDING IS TO BE DONE.
- STEP 3. PLACE RANGE SELECTOR SWITCH AND POLARITY SELECTOR SWITCH IN DESIRED POSITION.
- STEP 4. PLACE LINE SWITCH IN ON POSITION TO START THE WELDING MACHINE.

ME 3431-213-14/2-6

Figure 2-6. Starting the welding machine, Model DAR-300HFSG.

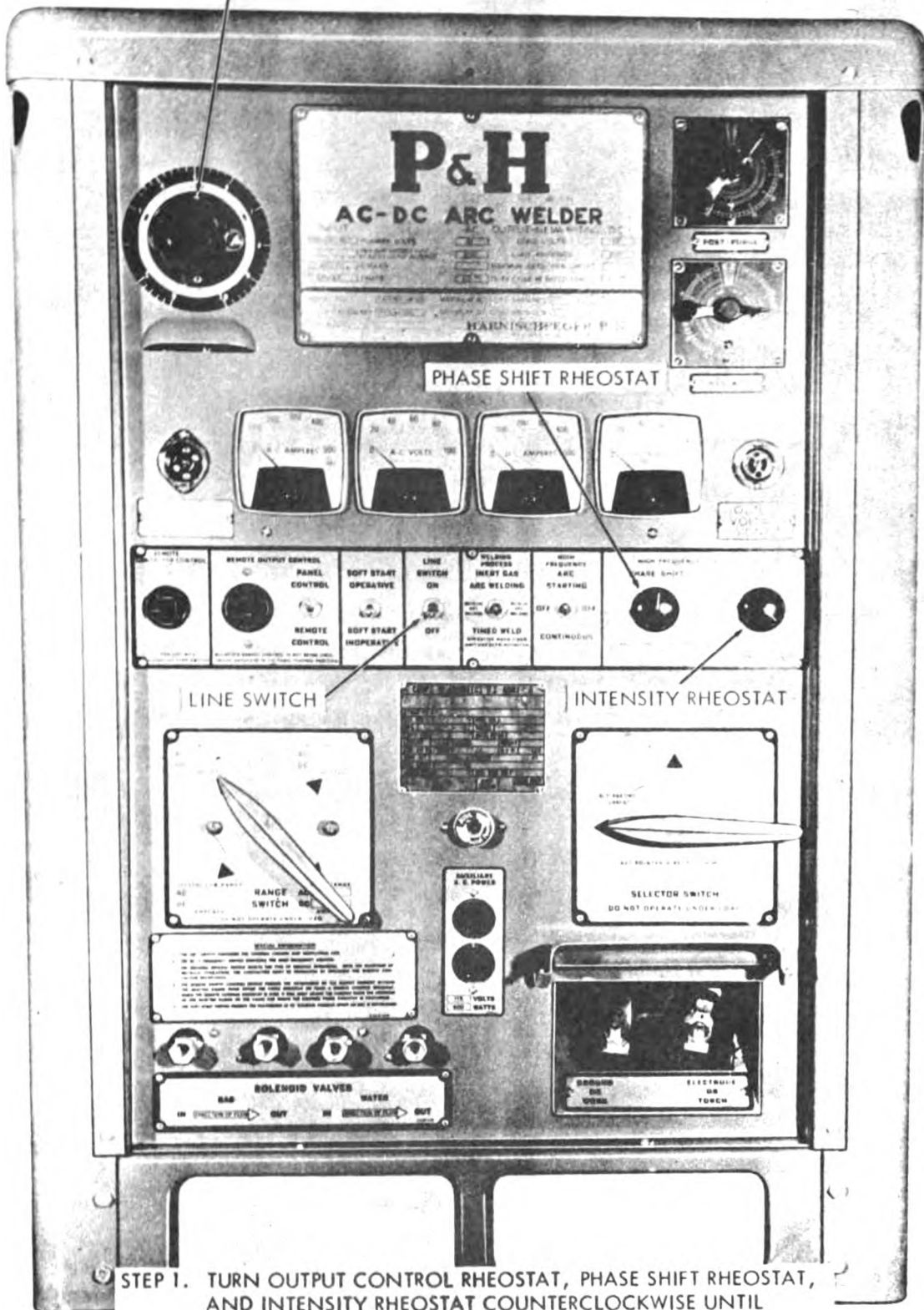


- STEP 1. MAKE SURE THAT EXTERNAL POWER IS CONNECTED TO THE WELDING MACHINE.
- STEP 2. MAKE SURE THAT GAS AND WATER ARE CONNECTED TO THE WELDING MACHINE IF INERT GAS WELDING IS TO BE DONE.
- STEP 3. PLACE RANGE SELECTOR SWITCH AND POLARITY SELECTOR SWITCH IN THE DESIRED POSITIONS.
- STEP 4. PLACE LINE SWITCH IN ON POSITION.
- STEP 5. DEPRESS START PUSHBUTTON TO START THE WELDING MACHINE.

ME 3431-213-14/2-7

Figure 2-7. Starting the welding machine, Model 2100H2007.

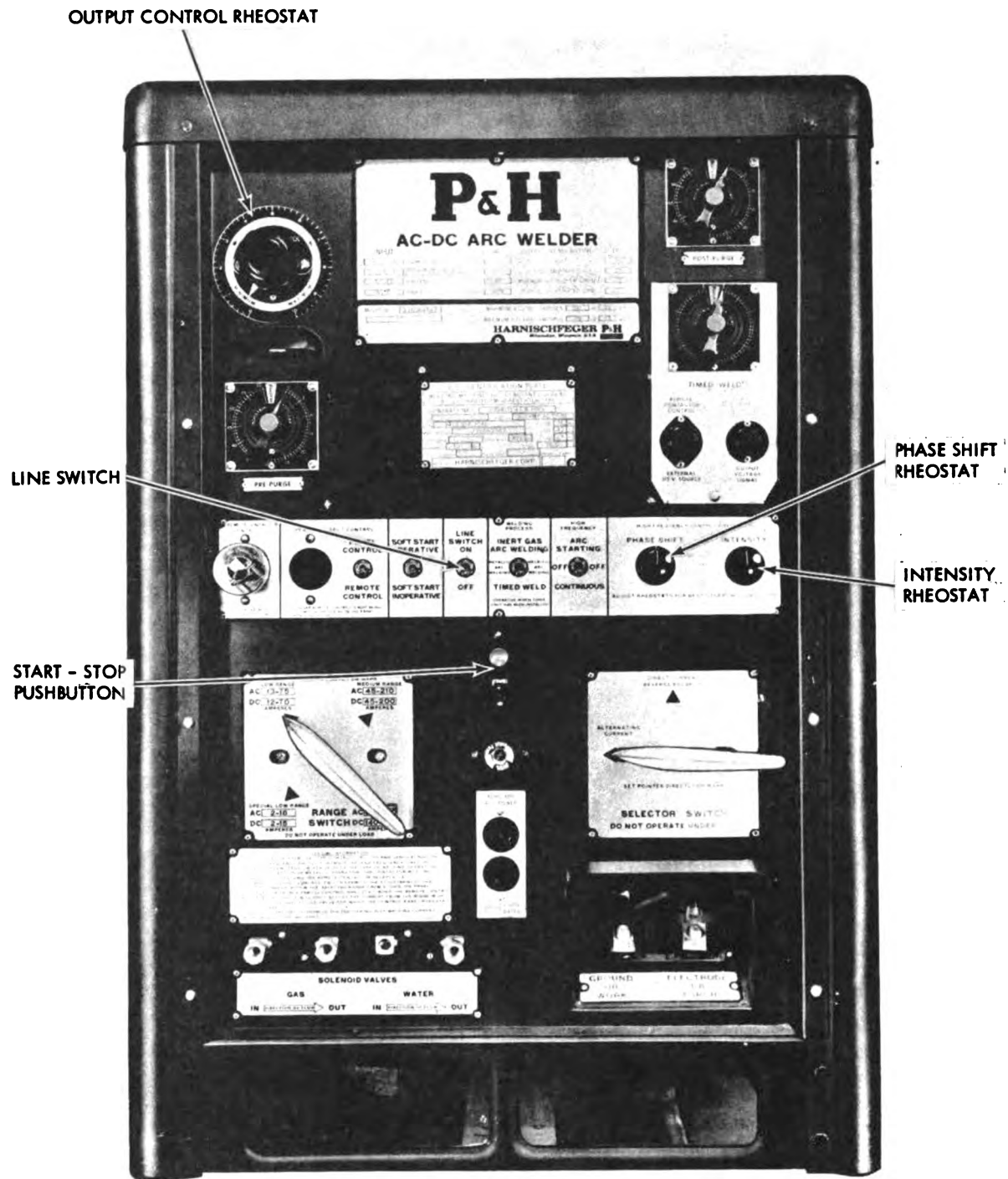
OUTPUT CONTROL RHEOSTAT



- STEP 1. TURN OUTPUT CONTROL RHEOSTAT, PHASE SHIFT RHEOSTAT, AND INTENSITY RHEOSTAT COUNTERCLOCKWISE UNTIL THEY STOP.
- STEP 2. PLACE LINE SWITCH IN OFF POSITION TO STOP THE WELDING MACHINE.

ME 3431-213-14/2-8

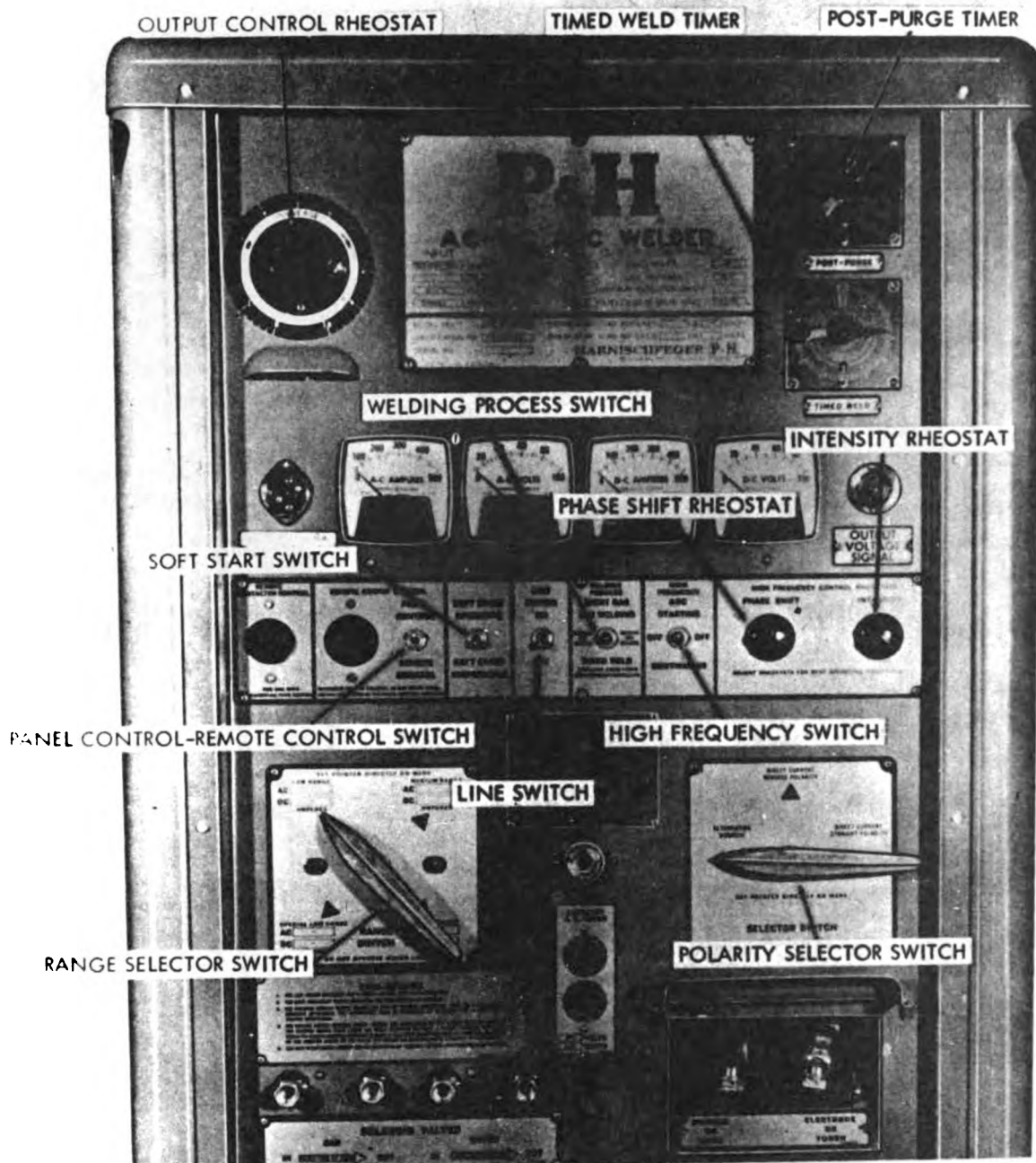
Figure 2-8. Stopping the welding machine, Model DAR-300HFSG.



- STEP 1. TURN OUTPUT CONTROL RHEOSTAT, PHASE SHIFT RHEOSTAT, AND INTENSITY RHEOSTAT COUNTERCLOCKWISE UNTIL THEY STOP.
- STEP 2. DEPRESS THE STOP PUSHBUTTON TO STOP THE WELDING MACHINE.
- STEP 3. PLACE LINE SWITCH IN OFF POSITION.

ME 3431-213-14/2-9

Figure 2-9. Stopping the welding machine, Model 2100H2007.



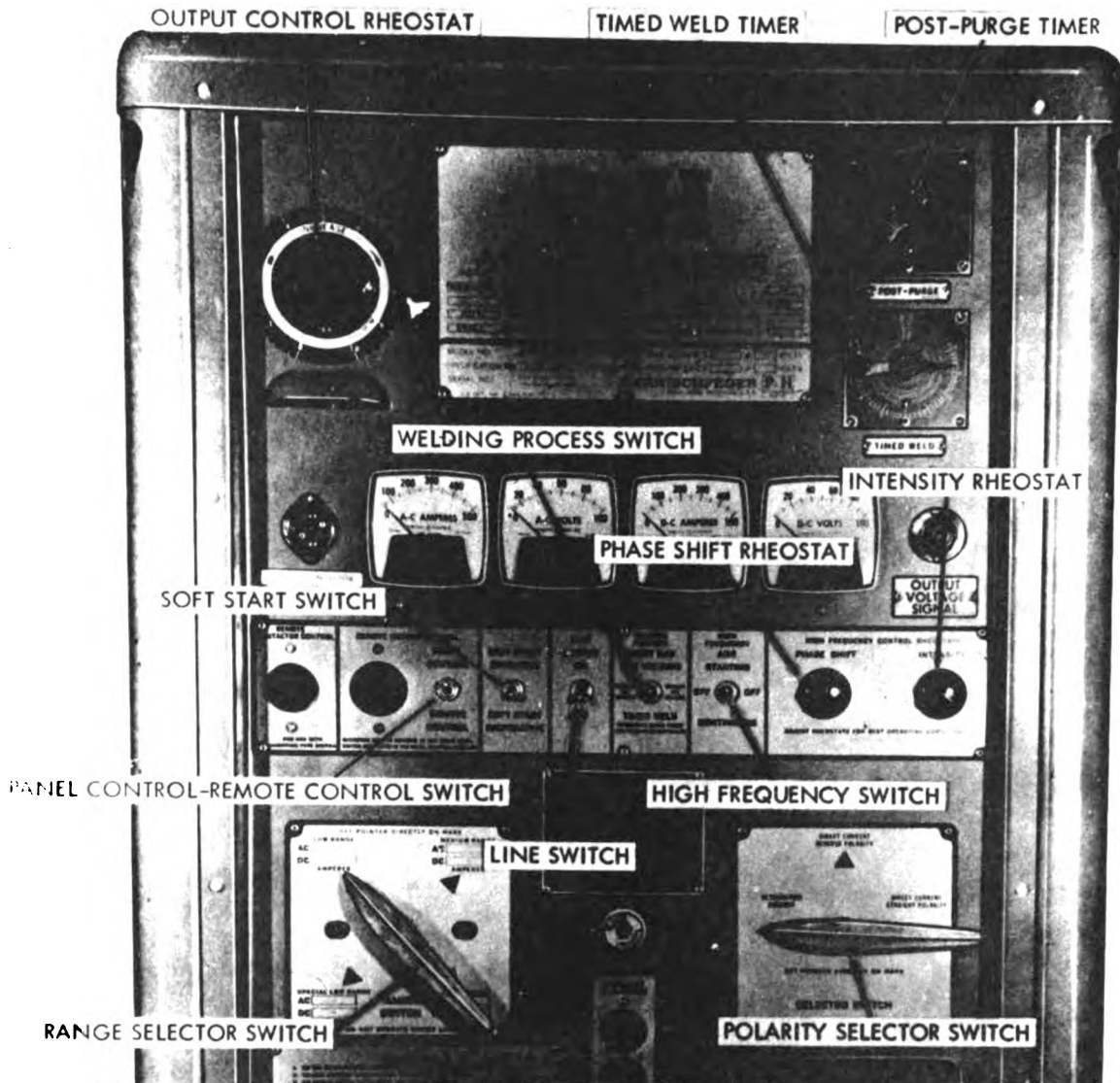
A. METALLIC WELDING

- STEP 1. PLACE WELDING PROCESS SWITCH IN METALLIC ARC WELDING POSITION.
- STEP 2. PLACE HIGH FREQUENCY SWITCH IN OFF POSITION.
- STEP 3. PLACE SOFT START SWITCH IN INOPERATIVE POSITION.
- STEP 4. DETERMINE WELDING RANGE BY SIZE OF WORK TO BE DONE AND SELECT THE PROPER ELECTRODE SIZE. PLACE RANGE SELECTOR SWITCH IN POSITION FOR PROPER RANGE.
- STEP 5. PLACE POLARITY SELECTOR SWITCH IN POSITION IN ACCORDANCE WITH TYPE OF WELDING TO BE DONE AND TYPE OF ELECTRODE USED.
- STEP 6. ADJUST OUTPUT CONTROL RHEOSTAT FOR CURRENT DESIRED WITHIN THE SELECTED RANGE.
- STEP 7. OPERATE THE WELDING MACHINE.

ME 3431-213-14/2-10 ①

Figure 2-10①. Welding machine operation, Model DAR-300HFSG.

NOTE: FOR SPOT ARC WELDING, PLACE WELDING PROCESS SWITCH IN TIMED WELD POSITION, SET THE TIMED WELD TIMER TO THE DESIRED SETTING (0 TO 6 SECONDS), AND FOLLOW STEPS 2 THROUGH 11.

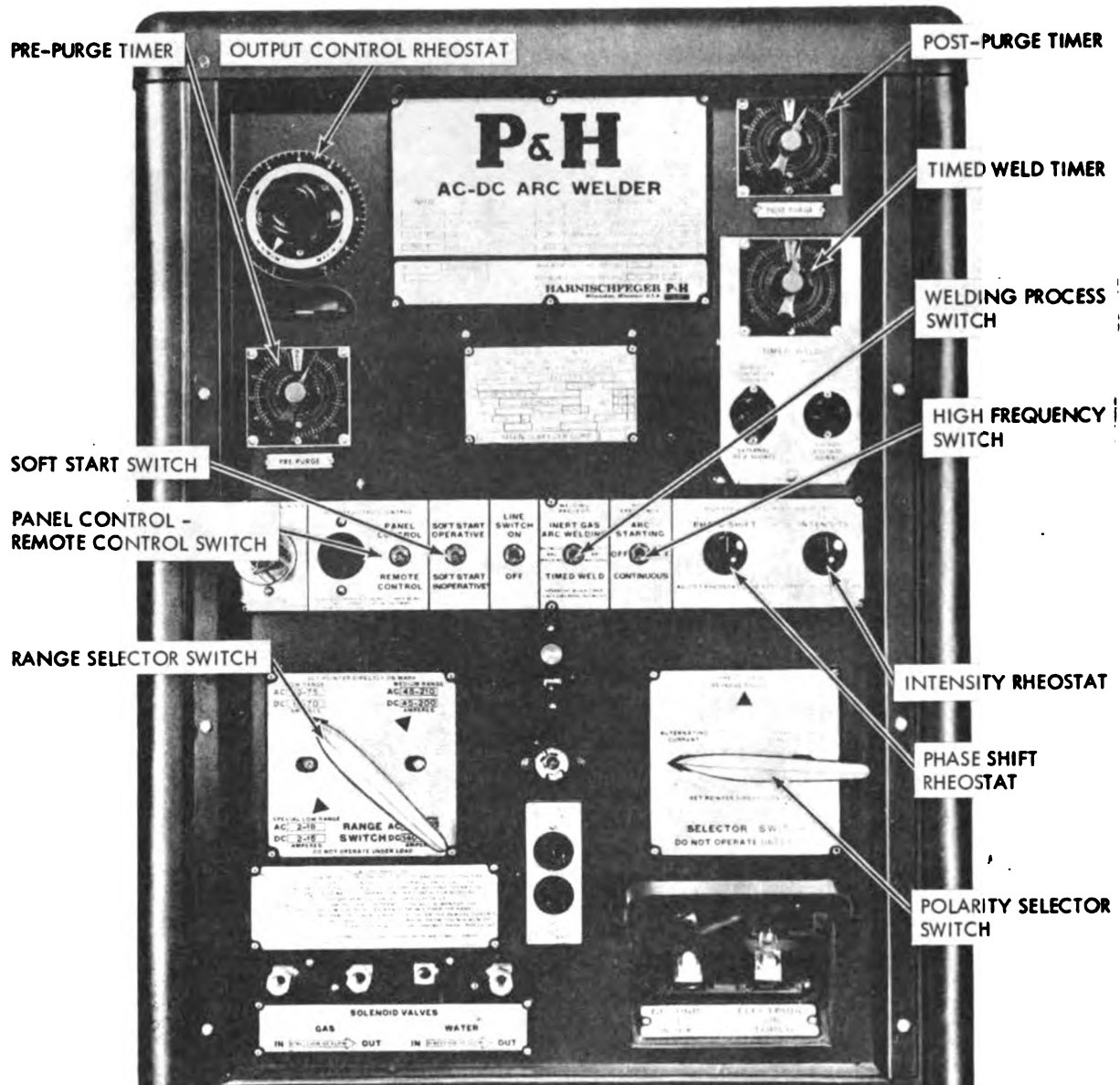


B. INERT GAS ARC WELDING

- STEP 1. PLACE WELDING PROCESS SWITCH IN INERT GAS POSITION.
- STEP 2. TURN ON SOURCES OF GAS AND WATER.
- STEP 3. PLACE HIGH FREQUENCY SWITCH IN POSITION DESIRED.
- STEP 4. PLACE SOFT START SWITCH IN OPERATIVE POSITION ONLY IF FEATHERING-IN IS DESIRED AT THE TIME THE ARC IS STARTED. OTHERWISE, PLACE SOFT START SWITCH IN INOPERATIVE POSITION.
- STEP 5. DETERMINE WELDING RANGE BY SIZE OF WORK TO BE DONE AND SELECT THE PROPER ELECTRODE SIZE. PLACE RANGE SELECTOR SWITCH IN POSITION FOR PROPER RANGE.
- STEP 6. PLACE POLARITY SELECTOR SWITCH IN POSITION IN ACCORDANCE WITH TYPE OF WELDING TO BE DONE AND TYPE OF ELECTRODE USED.
- STEP 7. SET POST-PURGE TIMER FOR PERIOD OF TIME DESIRED FOR FLOW OF GAS AND WATER AFTER THE ARC IS DISCONTINUED.
- STEP 8. PLUG THE FOOT SWITCH INTO THE SHORTING TYPE SWITCH REMOTE CONTACTOR CONTROL RECEPTACLE.
- STEP 9. ADJUST OUTPUT CONTROL RHEOSTAT FOR CURRENT DESIRED WITHIN THE SELECTED RANGE.
- STEP 10. ADJUST PHASE SHIFT RHEOSTAT AND INTENSITY RHEOSTAT FOR BEST OPERATING CONDITIONS.
- STEP 11. OPERATE THE WELDING MACHINE.

ME 3431-213-14/2-10 ②

Figure 2-10②—Continued.



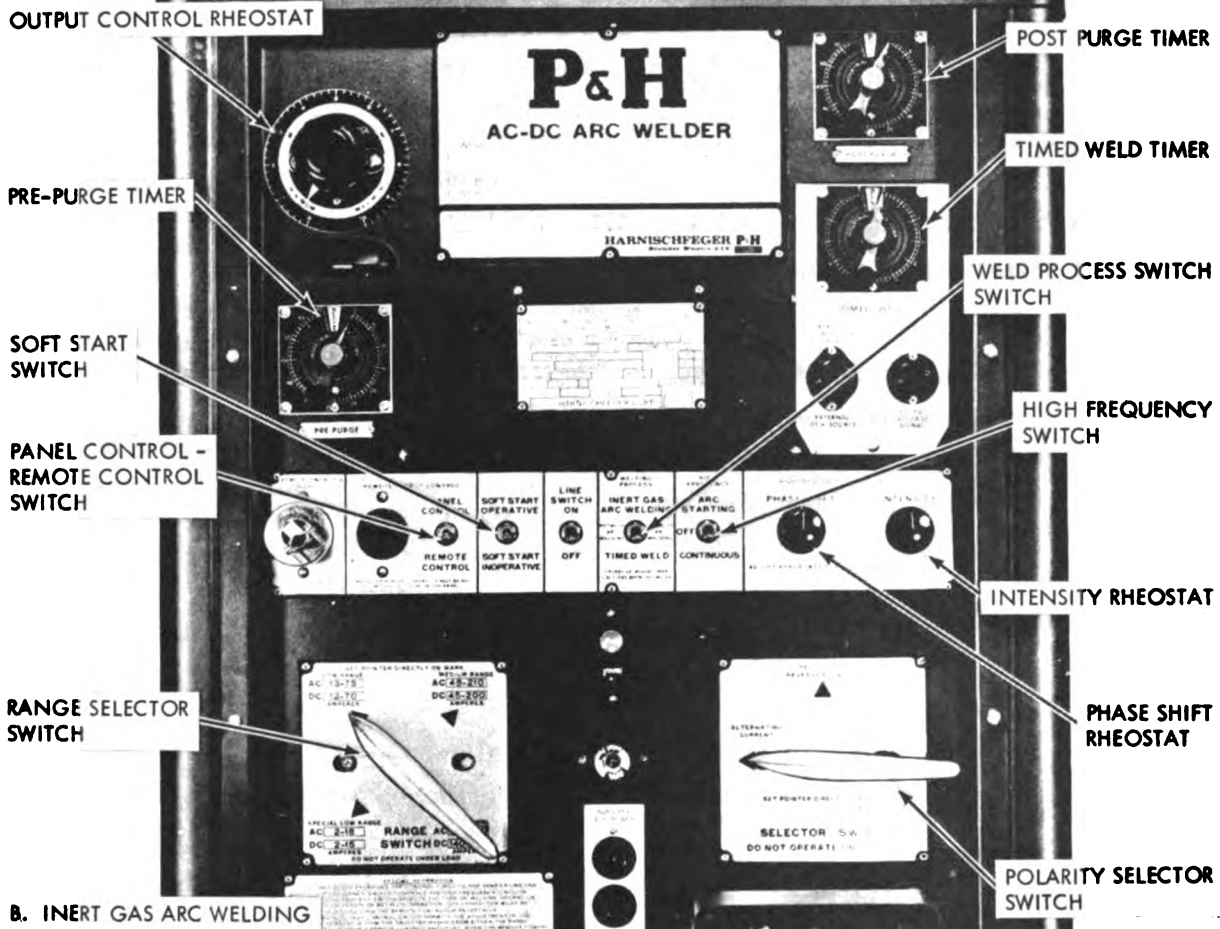
A. METALLIC WELDING

- STEP 1. PLACE WELDING PROCESS SWITCH IN METALLIC ARC WELDING POSITION.
- STEP 2. PLACE HIGH FREQUENCY SWITCH IN OFF POSITION.
- STEP 3. PLACE SOFT START SWITCH IN INOPERATIVE POSITION.
- STEP 4. DETERMINE WELDING RANGE BY SIZE OF WORK TO BE DONE AND SELECT THE PROPER ELECTRODE SIZE. PLACE RANGE SELECTOR SWITCH IN POSITION FOR PROPER RANGE.
- STEP 5. PLACE POLARITY SELECTOR SWITCH IN POSITION IN ACCORDANCE WITH TYPE OF WELDING TO BE DONE AND TYPE OF ELECTRODE USED.
- STEP 6. ADJUST OUTPUT CONTROL RHEOSTAT FOR CURRENT DESIRED WITHIN THE SELECTED RANGE.
- STEP 7. OPERATE THE WELDING MACHINE.

ME 3431-213-14/2-11 ①

Figure 2-11①. Welding machine operation, Model 2100H2007.

NOTE: FOR SPOT ARC WELDING, PLACE WELDING PROCESS SWITCH IN TIMED WELD POSITION, SET THE TIMED WELD TIMER TO THE DESIRED SETTING (0 TO 6 SECONDS), AND FOLLOW STEPS 2 THROUGH 11.



B. INERT GAS ARC WELDING

- STEP 1. PLACE WELDING PROCESS IN INERT GAS POSITION.
- STEP 2. TURN ON SOURCES OF GAS AND WATER.
- STEP 3. PLACE HIGH FREQUENCY SWITCH IN POSITION DESIRED.
- STEP 4. PLACE SOFT START SWITCH IN OPERATIVE POSITION ONLY IF FEATHERING-IN IS DESIRED AT THE TIME THE ARC IS STARTED. OTHERWISE, PLACE SOFT START SWITCH IN INOPERATIVE POSITION.
- STEP 5. DETERMINE WELDING RANGE BY SIZE OF WORK TO BE DONE AND SELECT THE PROPER ELECTRODE SIZE. PLACE RANGE SELECTOR SWITCH IN POSITION FOR PROPER RANGE.
- STEP 6. PLACE POLARITY SELECTOR SWITCH IN POSITION IN ACCORDANCE WITH TYPE OF WELDING TO BE DONE AND TYPE OF ELECTRODE USED.
- STEP 7. SET PRE-PURGE TIMER FOR PERIOD OF TIME DESIRED FOR FLOW OF GAS AND WATER BEFORE THE ARC IS ESTABLISHED.
- STEP 8. SET POST-PURGE TIMER FOR PERIOD OF TIME DESIRED FOR FLOW OF GAS AND WATER AFTER THE ARC IS DISCONTINUED.
- STEP 9. ADJUST OUTPUT CONTROL RHEOSTAT FOR CURRENT DESIRED WITHIN THE SELECTED RANGE.
- STEP 10. ADJUST PHASE SHIFT RHEOSTAT AND INTENSITY RHEOSTAT FOR BEST OPERATING CONDITIONS.
- STEP 11. PLUG THE FOOT CONTROL INTO THE REMOTE OUTPUT CONTROL AND REMOTE CONTACTOR CONTROL RECEPTACLES.
- STEP 12. OPERATE THE WELDING MACHINE.

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Figure 2-11②—Continued.

Section V. OPERATION UNDER UNUSUAL CONDITIONS

2-13. Operation in Extreme Cold (below 0° F.)

- a. Frequently inspect for frozen water pipes or lines.
- b. If freezing is evident, disconnect water system from the welding machine and use only for regular arc welding.

2-14. Operation in Extreme Heat

Make sure that the welding machine has adequate ventilation.

2-15. Operation in Dusty or Sandy Areas

- a. Keep dust and sand cleaned from welding machine as much as possible.
- b. If dust or sand is blowing, provide a panel or shelter to give as much protection as possible to the welding machine.
- c. Keep welding machine covered when not in use.

2-16. Operation Under Rainy or Humid Conditions

- a. Provide as much protection as possible to keep rain from getting into the welding machine.
- b. Keep the welding machine covered when not in use.
- c. If water gets into the high frequency components, remove the rear shrouds and dry the high frequency components thoroughly.

Warning: Be extra careful when the unit or surrounding area is damp or wet. Coming in contact with a wet or damp unit can cause a serious electrical shock and possible death.

2-17. Operation in Salt Water Area

- a. Keep the welding machine protected as much as possible but do not block ventilation.
- b. Inspect all connections, terminals, and fittings for corrosion.
- c. Keep welding machine covered when not in use.

CHAPTER 3

OPERATOR AND ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. OPERATOR'S AND ORGANIZATIONAL MAINTENANCE REPAIR PARTS, TOOLS, AND EQUIPMENT

3-1. Tools and Equipment

a. Tools and repair parts issued with or authorized for the welding machine are listed in the Basic Issue Items List, Appendix B.

b. No special tools or equipment are required by the operator or organizational maintenance per-

sonnel for the maintenance of this welding machine.

3-2. Organizational Maintenance Repair Parts

Organizational maintenance repair parts are listed and illustrated in Appendix D of this manual.

Section II. LUBRICATION

3-3. General Lubrication Information

No lubrication is required for maintenance of this welding machine.

Section III. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

3-4. General

To insure that the welding machine 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 and described in paragraphs 3-5 and 3-6. The item numbers indicate the sequence of minimum inspection requirements. Defects discovered during operation of the unit shall be noted for future correction, to be made as soon as operation has ceased. Stop operation immediately if a deficiency is noticed 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 (Equipment Inspection and Maintenance Worksheet) at the earliest possible opportunity.

3-5. Daily Preventive Maintenance Checks and Services

Refer to table 3-1 for the daily preventive maintenance checks and services which must be performed by the operator. The item numbers are listed consecutively and indicate the sequence of minimum requirements.

3-6. Quarterly Preventive Maintenance Checks and Services

a. Refer to table 3-1 for the quarterly preventive maintenance services which must be performed by organizational personnel. The item numbers are listed consecutively and indicate the sequence of minimum requirements.

b. A quarterly interval is equal to 3 calendar months, or 250 hours of operation, whichever occurs first.

Table 3-1. Preventive Maintenance Checks and Services

Item number	Interval				B—Before operation D—During operation		A—After operation W—Weekly		M—Monthly Q—Quarterly		Item to be inspected	Procedure	Reference
	Operator		Org.		B	D	A	W	M	Q			
	Daily												
	B	D	A	W									
1	X		X								Shroud.....	Clean a dirty shroud.	
2	X	X								X	Controls and Instruments.	Inspect for damage and loose mountings. With unit operating, inspect for improper operation. Open circuit voltage should be 75 volts AC or 68 volts DC.	
3	X										Fuse.....	Inspect for a defective fuse.	
4	X									X	Ground Terminal.....	Inspect for proper ground. A proper ground will consist of a 3/4 inch-dia hollow or 5/8 inch-dia solid rod 9 feet long. The cable will be No. 6AWG or manufacturer specified wire size bolted or clamped to the rod and attached to the ground terminal of the welder.	
5	X									X	Switches.....	Inspect for loose mounting.	
6	X		X								Inert Gas Arc Welding Connections.	Inspect for gas leaks. A spark generated by unit can cause an explosion.	
7	X									X	Receptacles.....	Inspect for damaged and loose hardware.	
8	X									X	Electrical Leads.....	Inspect for loose connections. Replace broken or frayed leads.	Refer to DS and GS Maintenance.
9										X	Rectifier.....	Inspect for loose connections and damage. Replace a defective switch.	Refer to DS and GS Maintenance.
10										X	Thermostat Switch.....	Inspect for loose electrical connections and improper operation. Replace a defective switch.	3-21
11										X	Fan Assembly.....	Clean a dirty fan. Tighten loose electrical connections and loose mountings. Replace a defective motor or bent fan.	3-29
12										X	Contactors.....	Inspect for loose electrical connections. Replace a defective connector.	3-20
13										X	Reactors.....	Inspect for loose connections and damage. Replace a defective reactor.	Refer to DS and GS Maintenance.
14										X	Solenoid Valve and Connections.	Inspect for loose electrical connections. Inspect solenoid for improper operation. Replace a defective solenoid. Inspect for leaks at gas connections. Leaking gas can cause an explosion.	3-27
15										X	Spark Gap Assembly.....	Inspect for loose electrical connections. Inspect for proper gap adjustment of 0.006 inches. Replace spark gap assembly if contacts are pitted or burned.	3-23
16										X	Transformer.....	Inspect for loose connections and damage. Replace a defective transformer.	Refer to DS and GS Maintenance.
17	X									X	Mounting Hardware.....	Inspect for loose or missing hardware. Tighten or replace hardware.	

Section IV. OPERATOR'S MAINTENANCE

3-7. General

The instructions in this section are published for the information and guidance of the operator to maintain the welding machine.

3-8. Fuse Replacement

Remove and replace a defective fuse as necessary. Refer to figures 3-4 and 3-5.

3-2

3-9. Remove Rheostat and Cable Assembly Replacement

Replace a defective remote rheostat and cable assembly as necessary.

3-10. Foot Switch and Cable Assembly Replacement

Replace a defective foot switch and cable assembly as necessary.

Section V. TROUBLESHOOTING

3-11. General

This section provides information useful in diagnosing and correcting unsatisfactory operation or failure of the welding machine and its compo-

nents. Each malfunction stated is followed by a list of probable causes of trouble. The corrective action recommended is described opposite the probable cause. Malfunctions which may occur are listed in table 3-2.

Table 3-2. Troubleshooting

Malfunction	Probable cause	Corrective action
1. Welding Machine Fails to Start	a. Contactor inoperative b. Line switch defective	a. Replace contactor (para 3-20). b. Replace switch (para 3-15).
2. Cooling Fan Does Not Operate	a. Lead broken or terminal loose b. Fan motor defective	a. Repair or tighten terminal (para 3-28). b. Replace motor (para 3-28).
3. Fan Assembly is Noisy	a. Mounting hardware loose b. Fan blade loose	a. Tighten mounting hardware (para 3-29). b. Tighten fan blade setscrew (para 3-28).
4. Gas Insufficient	a. Lines or fittings clogged with dirt or foreign matter. b. Solenoid defective	a. Remove and clean lines and fittings (para 3-26). b. Replace solenoid (para 3-26).
5. Water Insufficient	a. Lines or fittings clogged with dirt or foreign matter. b. Solenoid defective	a. Remove and clean lines and fittings (para 3-26). b. Replace solenoid (para 3-26).
6. Welding Machine Operates Erratically.	Spark gap improperly adjusted	Clean adjusting screws and adjust spark gap (para 3-22).
7. Remote Controls Do Not Function Properly.	a. Wires loose at receptacle b. Receptacle defective c. Foot switch defective d. Remote output control rheostat defective.	a. Tighten wires (para 3-18). b. Replace receptacle (para 3-18). c. Replace switch (para 3-10). d. Replace rheostat (para 3-9).
8. Contactor Breaks Circuit.	Thermostatic switch or switches defective.	Replace switch or switches (para 3-21).
9. No Current Control	Panel control-remote control switch not in correct position.	Place switch in correct position (para 2-12).
10. Welder Fails to Maintain Arc	a. Loose electrical connections b. Improper ground connection on work	a. Tighten any loose electrical connections (refer to DS Maintenance). b. Tighten ground clamp or make sure grounding is free from excessive dirt and grease (para 2-10).
11. Welder Fails to Start on Arc	a. Low open circuit voltage indicated on voltmeter. b. Improper ground connection on work	a. Check voltage change terminal connecting links with wiring diagram and line supply (para 2-10). b. Tighten ground clamp or make sure grounding is free of excessive dirt and grease (para 2-10).
12. Welder Arc Is Loud and Spatters Excessively.	c. Faulty thermostatic switch or switches. a. Current output too high b. Reversed dc polarity	c. Replace switch or switches (para 3-21). a. Adjust output control rheostat or select lower range (para 2-12). b. Change polarity or use electrode of opposite polarity (para 2-12).

Section VI. WELDING MACHINE TOP, SHROUDS AND PANEL

3-12. General

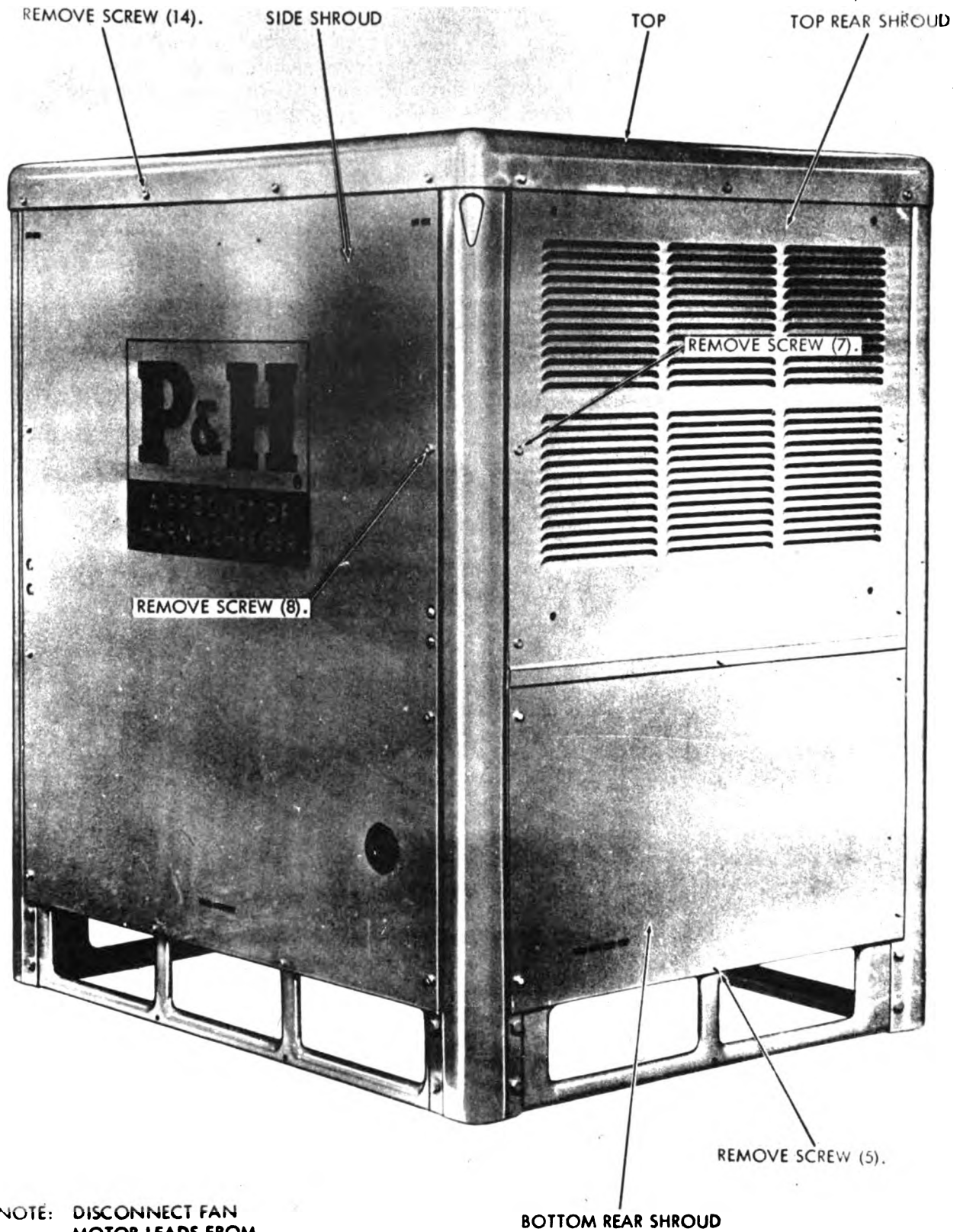
The welding machine is constructed of a heavy metal top, side shrouds, top and bottom rear shrouds, and a front panel. The front panel is also a control panel. These enclosing sheet metal components are attached to a frame, consisting of a base, corner uprights, and side rails.

3-13. Welding Machine Top and Shrouds

a. Removal.

(1) Refer to figure 3-1 and remove the welding machine top, bottom rear, and side shrouds.

(2) Refer to figure 3-1 and remove the top rear shroud with the fan, motor, and guard assembly.



NOTE: DISCONNECT FAN
MOTOR LEADS FROM
CONTROL TRANSFORMER.

BOTTOM REAR SHROUD

ME 3431-213-14/3-1

Figure 3-1. Welding machine top and shrouds, removal and installation.

(3) Remove the fan, motor, and guard assembly from the top rear shroud (para 3-28).

b. Cleaning and Inspection.

(1) Clean all parts with an approved cleaning solvent and dry thoroughly.

(2) Inspect all parts for rips, distortion, elongated mounting holes, or other damage.

(3) Replace a defective part as necessary.

c. Installation.

(1) Attach the fan, motor, and guard assembly to the top rear shroud (para 3-28).

(2) Refer to figure 3-1 and install the top rear shroud with the fan, motor, and guard assembly.

(3) Refer to figure 3-1 and install the welding machine top, bottom rear and side shrouds.

Section VII. CONTROLS AND INSTRUMENTS

3-14. General

a. Model DAR-300HFSG, the toggle switches control the panel or remote output control section, soft start operation, line power, welding process selection, and high frequency operation. The timers control the postflow of gas and water, the preflow of gas and water, and timed weld duration. The ammeters and voltmeters indicate load current output and arc voltage. The receptacles permit connection of an external 115 volt ac remote control, a shorting type switch remote contactor control, a remote output control rheostat, an output voltage signal control, and 115 volt ac powered auxiliaries. The auxiliary 115 volt ac circuit is protected by a 5.6 ampere fuse. The contactor is either manually or automatically energized to close the welding circuit. Three thermostatic switches open the welding circuit if the power rectifier, saturable reactor, or stabilizing reactor overheats.

b. Model 2100H2007, the preflow of gas and water is controlled by a timer. The welding machine is equipped with a start-stop pushbutton switch, and are not equipped with ammeters or voltmeters.

3-15. Toggle Switches

a. Removal.

(1) Remove the left side shroud (para 3-13).

(2) Refer to figures 3-2 and 3-3 and remove the five toggle switches.

b. Cleaning and Inspection.

(1) Clean the switches with a clean, dry cloth.

(2) Inspect for breaks, cracks, damaged threads, and broken or corroded terminals.

(3) Replace a defective switch as necessary.

c. Installation.

(1) Refer to figures 3-2 and 3-3 and install the five toggle switches.

(2) Install the left side shroud (para 3-13).

3-16. Timers

a. Model DAR-300HFSG.

(1) Removal.

(a) Remove the right side shroud (para 3-13).

(b) Refer to figure 3-2 and remove two timers.

(2) Cleaning and inspection.

(a) Clean the timers with a clean dry cloth.

(b) Inspect for breaks, cracks, and broken or corroded terminals.

(c) Replace a defective timer as necessary.

(3) Installation.

(a) Refer to figure 3-2 and install the two timers.

(b) Install the right side shroud (para 3-13).

b. Model 2100H2007.

(1) Removal.

(a) Remove the side shrouds (para 3-13).

(b) Refer to figure 3-3 and remove two timers and the timed weld kit.

(2) Cleaning and Inspection.

(a) Clean the timers with a clean, dry cloth.

(b) Inspect for breaks, cracks, and broken or corroded terminals.

(c) Replace a defective timer as necessary.

(3) Installation.

(a) Refer to figure 3-3 and install two timers and the timed weld kit.

(b) Install the side shrouds (para 3-13).

3-17. Meters

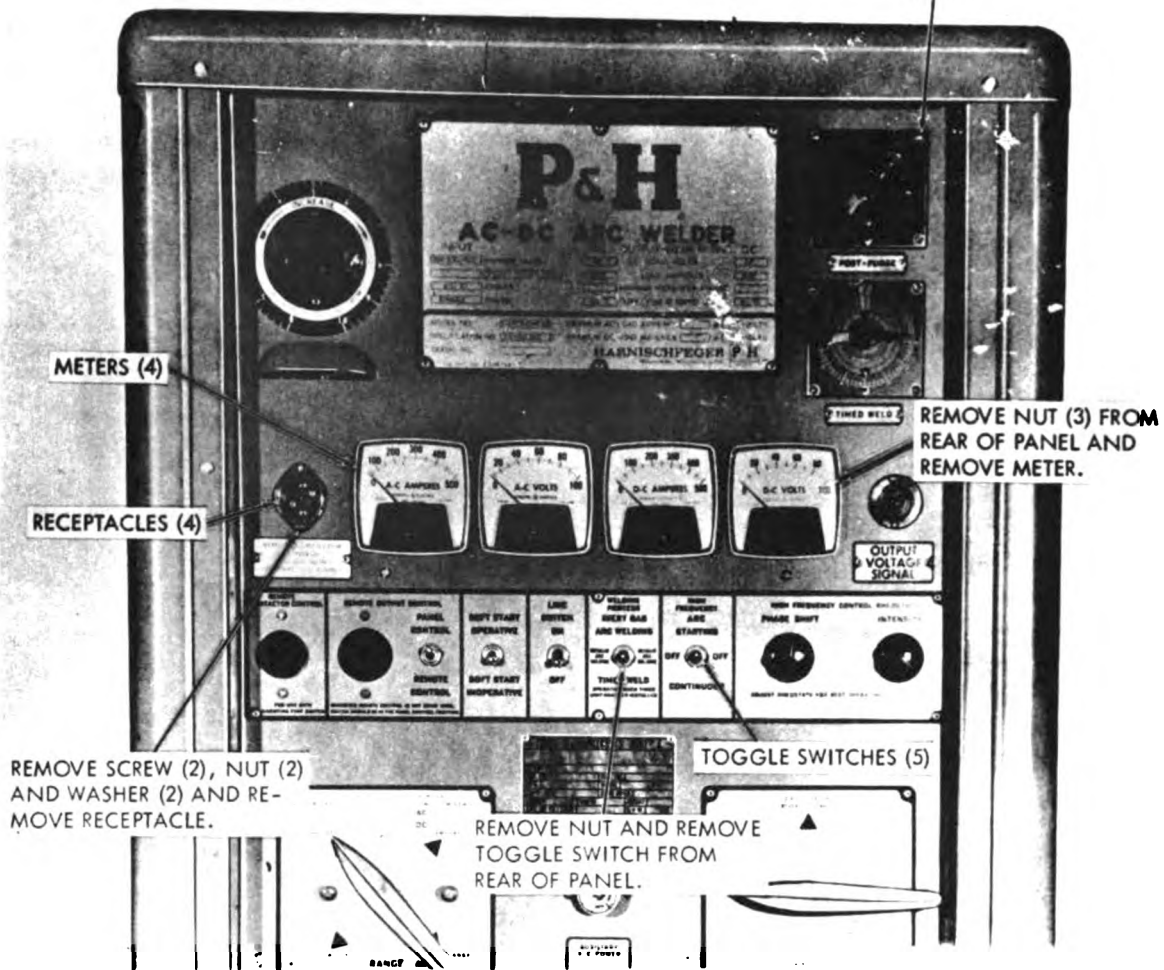
a. Removal.

(1) Remove the side shrouds (para 3-13).

(2) Refer to figure 3-2 and remove the four meters.

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

REMOVE SCREW (4) AND NUT (4) AND REMOVE TIMER.



ME 3431-213-14/3-2

Figure 3-2. Upper control panel components, removal and installation, Model DAR-300HFSG.

b. Cleaning and Inspection.

(1) Clean meter faces with a soft cloth and warm soapy water. Dry with a clean lint-free cloth. Clean the meter backs with a clean, dry cloth.

(2) Inspect for zero position of needle and adjust if necessary. Check for accuracy within one percent. Inspect for breaks, cracks and broken or corroded terminals.

(3) Replace a defective meter as necessary.

c. Installation.

(1) Refer to figure 3-2 and install the four meters.

(2) Install the side shrouds (para 3-13).

3-18. Receptacles and Fuseholder

a. Removal.

(1) Remove the side shrouds (para 3-13).

(2) Refer to figures 3-2 and 3-4 and remove the five receptacles and fuseholder.

b. Cleaning and Inspection.

(1) Clean receptacles and fuseholder with a clean, dry cloth.

(2) Inspect for breaks, cracks, corrosion, defective contacts, and other damage.

c. Installation.

(1) Refer to figures 3-2 and 3-4 and install the five receptacles and fuseholder.

(2) Install the side shrouds (para 3-13).

3-19. Pushbutton, Model 2100H2007

a. Removal.

(1) Remove the right side shroud (para 3-13).

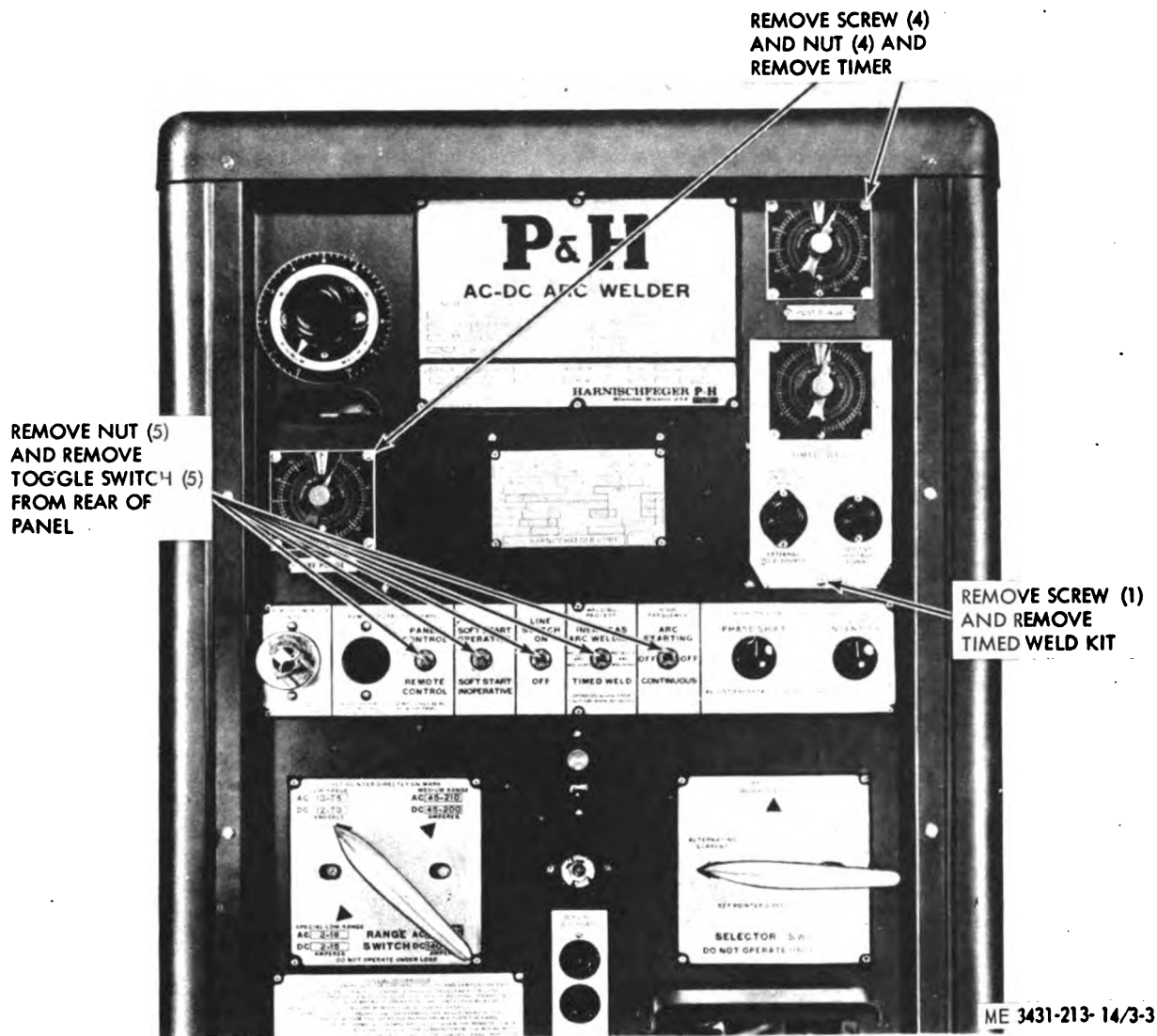


Figure 3-3. Upper control panel components, removal and installation, Model 2100H2007.

(2) Refer to figure 3-5 and remove the push-button switch.

b. Cleaning and Inspection.

- (1) Clean the switch with a clean, dry cloth.
- (2) Inspect for breaks, cracks, corrosion, defective contacts, and other damage.
- (3) Replace a defective pushbutton switch as necessary.

c. Installation.

- (1) Refer to figure 3-5 and install the push-button switch.
- (2) Install the right side shroud (para 3-13).

3-20. Contactor

a. Removal.

- (1) Remove the right side shroud (para 3-13).
- (2) Refer to figure 3-6 and remove the contactor.

b. Cleaning and Inspection.

- (1) Clean all parts with a clean, dry, lint-free cloth.
- (2) Inspect for breaks, cracks, burned or broken contacts, damaged or corroded terminals, and other damage.
- (3) Replace a defective contactor as necessary.

c. Installation:

- (1) Refer to figure 3-6 and install the contactor.
- (2) Install the right side shroud (para 3-13).

3-21. Thermostatic Switches, Model DAR-300HFSG

a. Removal.

- (1) Remove the right side shroud (para 3-13).

(2) Refer to figure 3-7 and remove the three thermostatic switches.

(3) Replace a defective thermostatic switch as necessary.

b. Cleaning and Inspection.

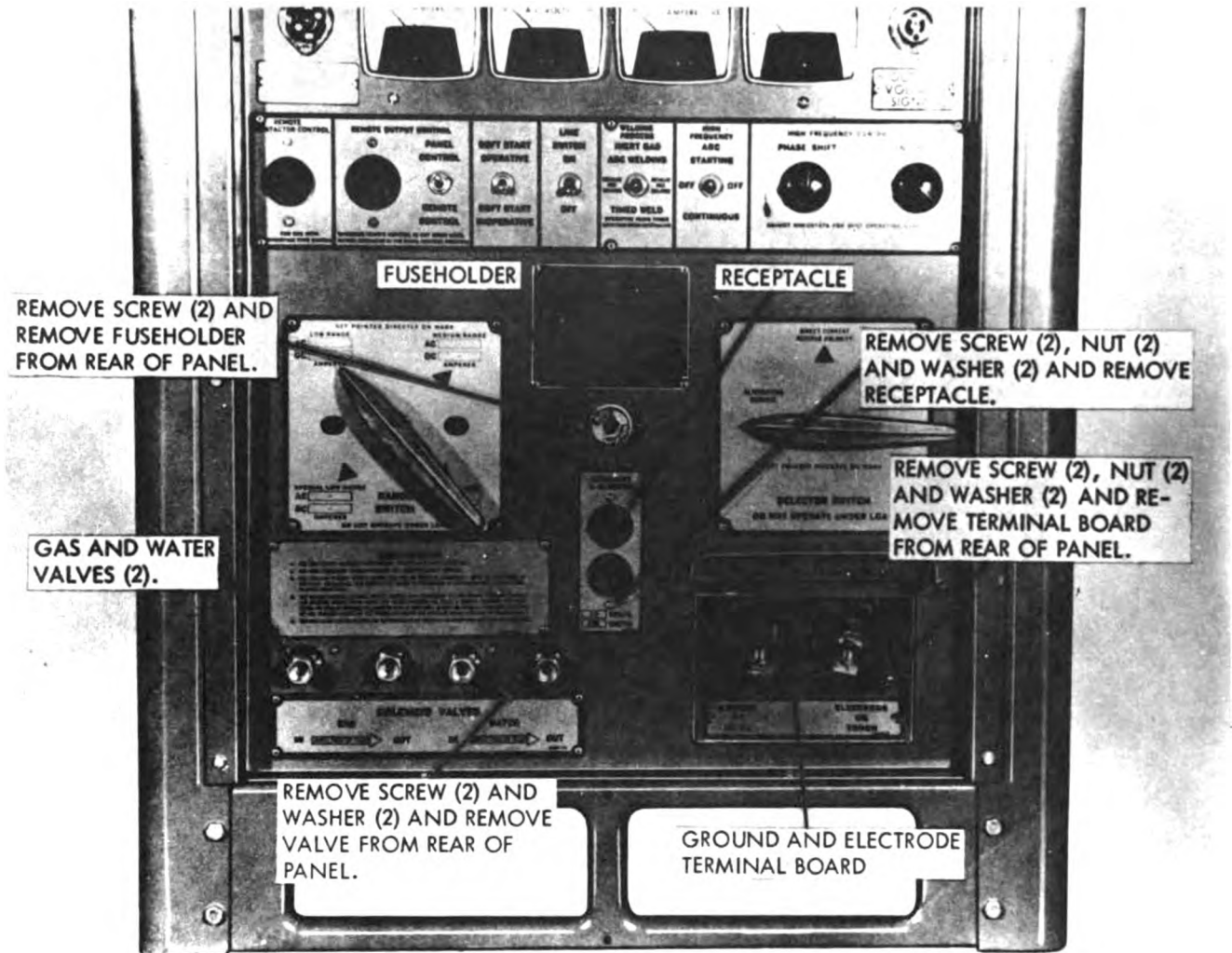
c. Installation.

(1) Clean the switch with a clean, dry cloth.

(1) Refer to figure 3-7 and install the three thermostatic switches.

(2) Inspect for broken or bare wires or other damage.

(2) Install the right side shroud (para 3-13).

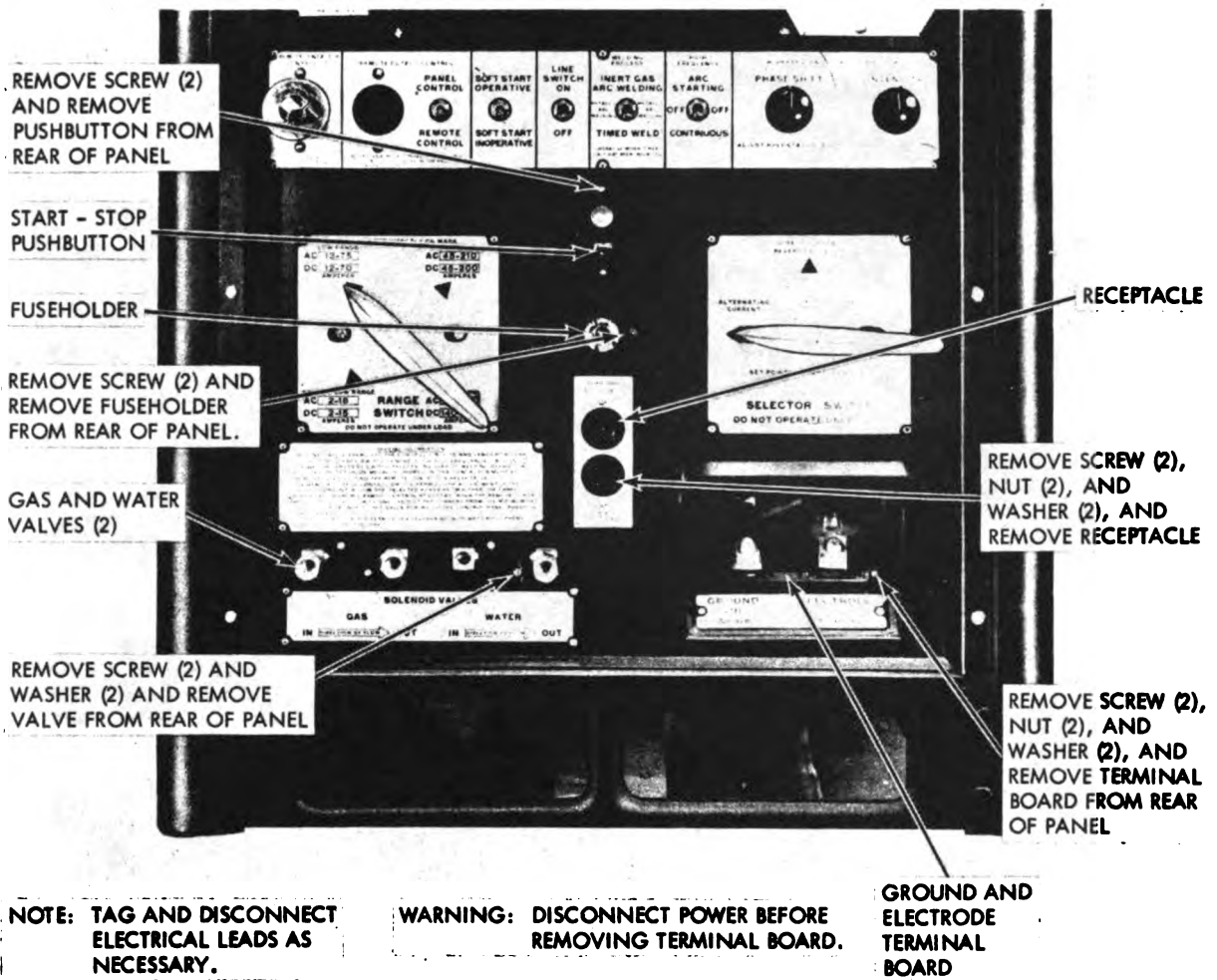


NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

WARNING: DISCONNECT POWER BEFORE REMOVING TERMINAL BOARD.

ME 3431-213-14/3-4

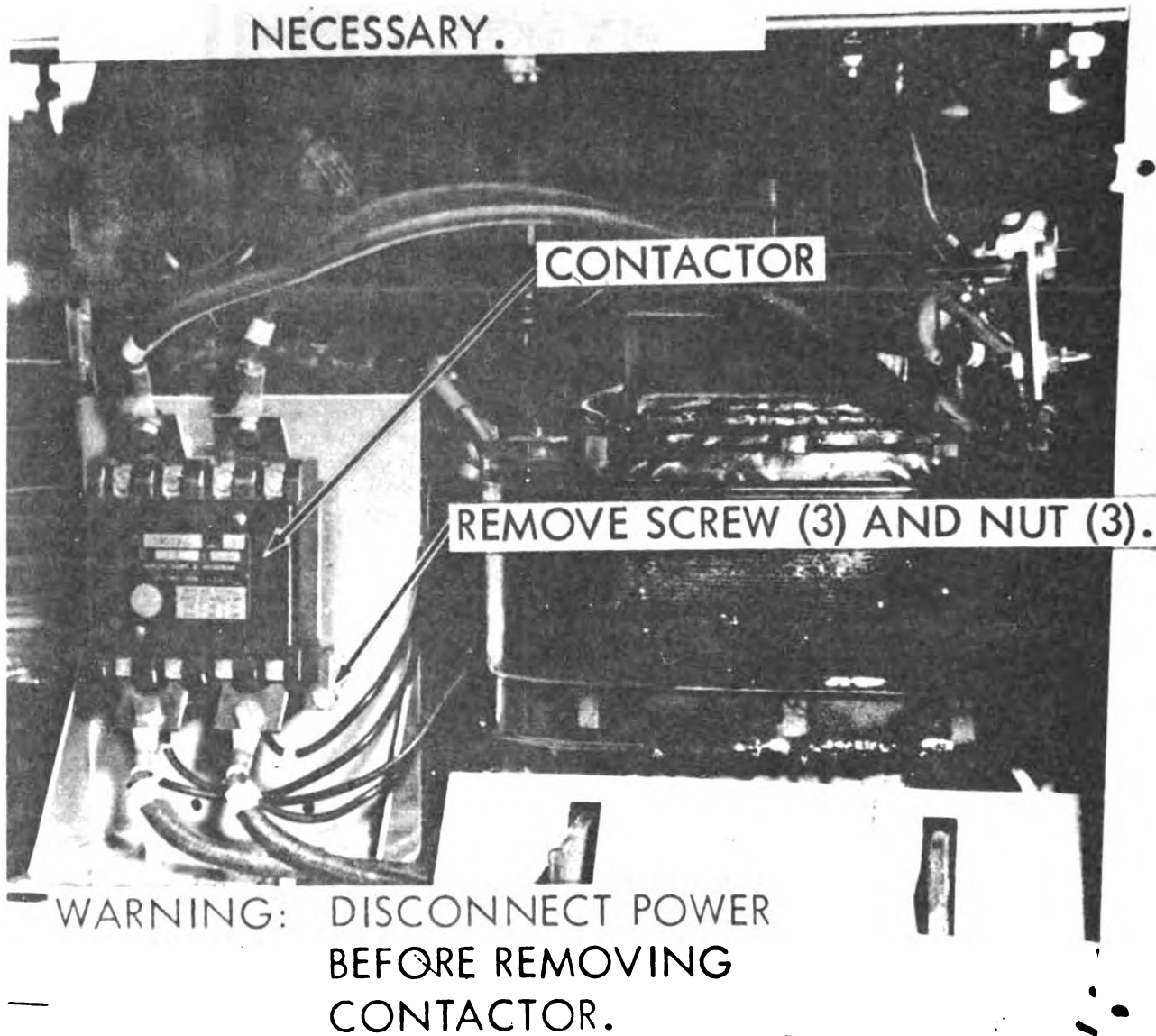
Figure 3-4. Lower control panel components, removal and installation, Model DAR-300HFSG.



ME 3431-213-14/3-5

Figure 3-5. Lower control panel components, removal and installation, Model 2100H2007.

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.



ME 3431-213-14/3-6

Figure 3-6. Contactor, removal and installation.

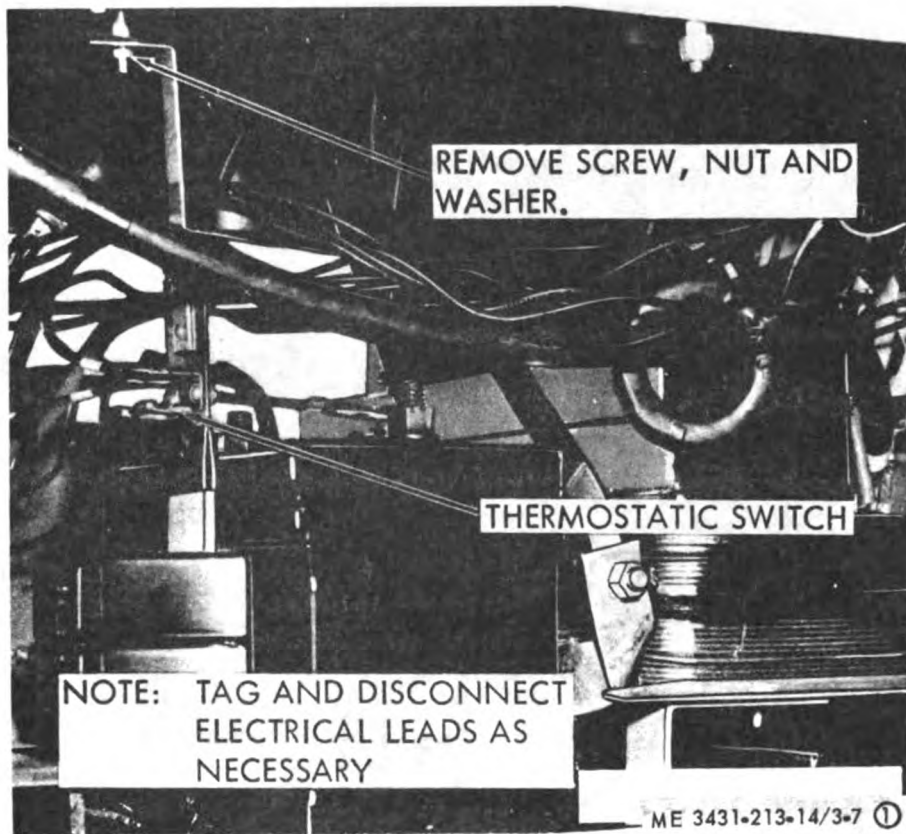


Figure 3-7①. Thermostatic switches, removal and installation.

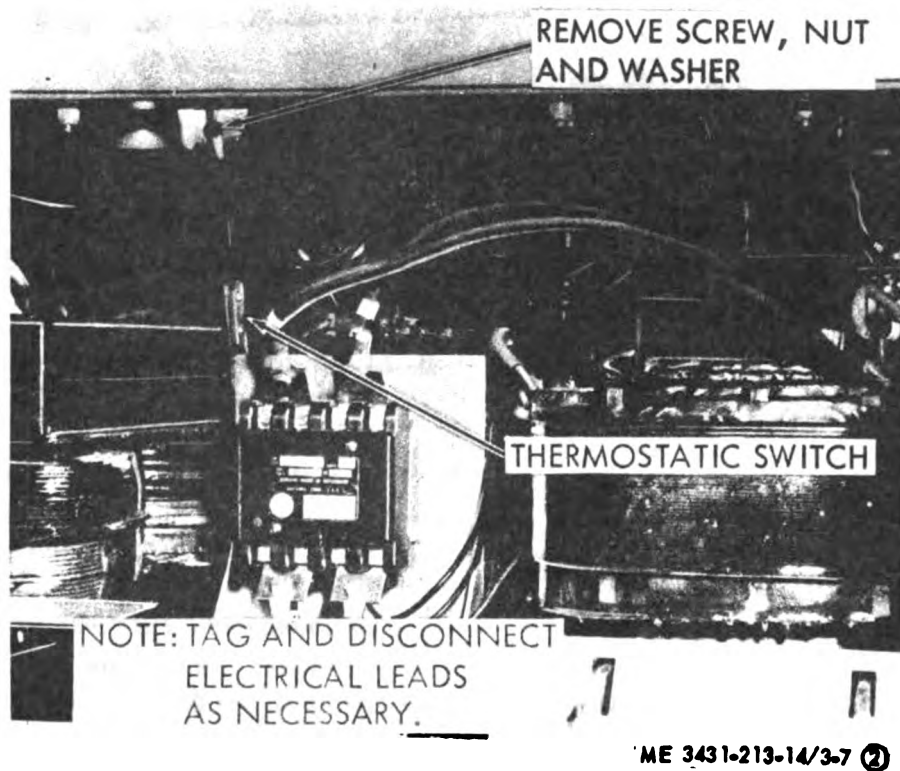


Figure 3-7②—Continued.

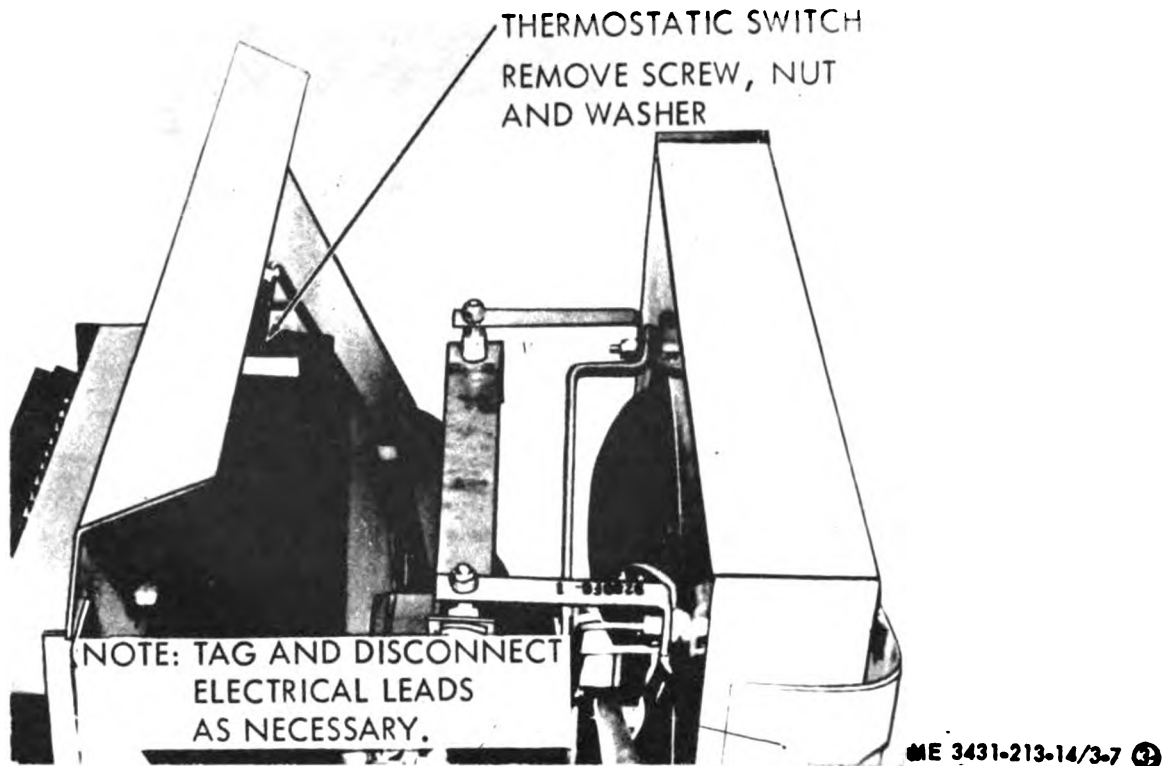


Figure 3-7③—Continued.

Section VIII. SPARK GAP ASSEMBLY, VOLTAGE CHANGE TERMINAL CONNECTING LINKS, AND GROUND AND ELECTRODE TERMINAL BOARD

3-22. General

The primary purpose of the spark gap assembly is to control the stability of the high frequency arc. The purpose of the voltage change terminal connecting links is to allow the welding machine to operate from 208, 230, or 460 volts by the correct changing of the links. The ground and electrode cable terminal lugs are connected by brass nuts to the studs on the ground and electrode terminal board.

3-23. Spark Gap Assembly

a. Removal.

(1) Remove the right side shroud (para 3-13).

(2) Refer to figure 3-8 and remove the spark gap assembly.

b. Cleaning and Inspection.

(1) Clean all parts with a clean, dry cloth.

(2) Inspect for burned or pitted points, damaged adjusting screws, corroded terminals, and other damage.

(3) Replace a defective spark gap assembly as necessary.

c. Installation.

(1) Refer to figure 3-8 and install the spark gap assembly.

(2) Install the right side shroud (para 3-13).

d. *Adjust.* Refer to figure 3-8 and adjust the spark gap.

3-24. Voltage Change Terminal Connecting Links

a. Removal.

(1) Remove the bottom rear shroud (para 3-13).

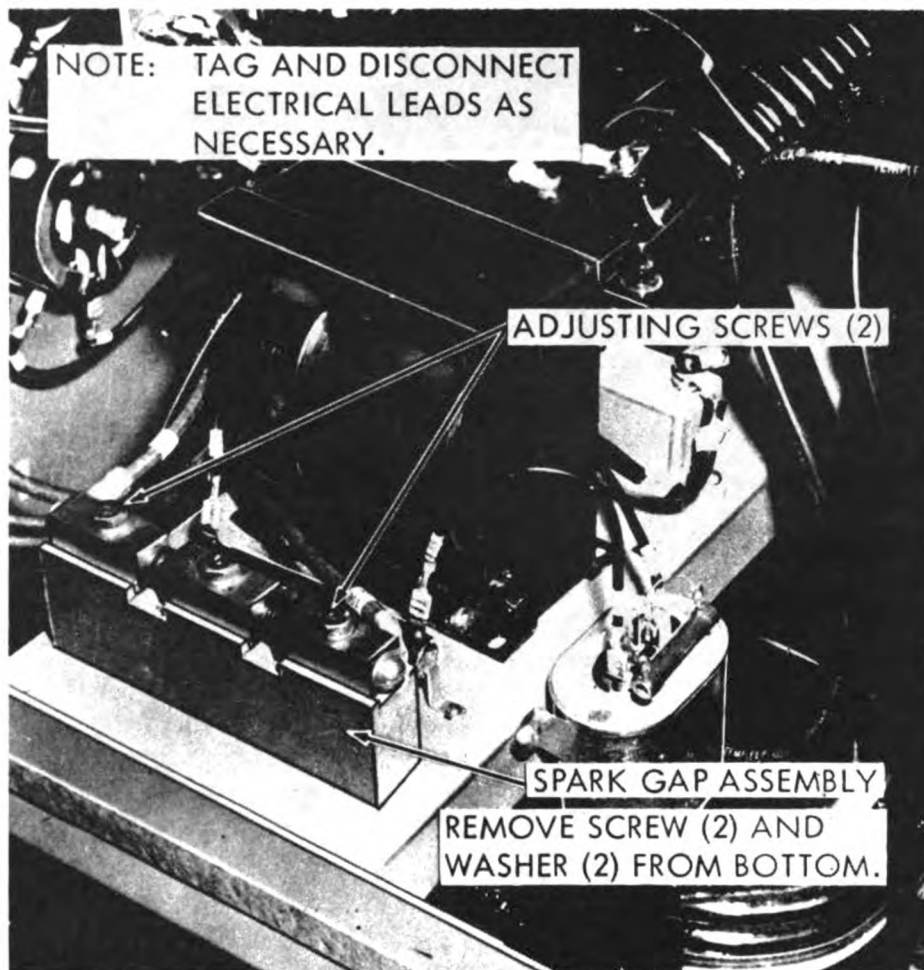
(2) Refer to figure 3-9 and remove the terminal connecting links.

b. Cleaning and Inspection.

(1) Clean the terminal connecting links with an approved cleaning solvent and dry thoroughly.

(2) Inspect for corrosion or other damage.

(3) Replace a defective terminal connecting link as necessary.



- STEP 1. LOOSEN ADJUSTING SCREWS (2).
 STEP 2. INSERT 0.006 IN. FEELER GAGE BETWEEN CENTER AND OUTER GAP TERMINALS.
 STEP 3. POSITION OUTER GAP TERMINALS UNTIL A SLIGHT DRAG IS FELT AS FEELER GAGE IS REMOVED. TIGHTEN ADJUSTING SCREW.

ME 3431-213-14/3-8

Figure 3-8. Spark gap assembly, removal, installation and adjustment.

c. Installation.

- (1) Refer to figure 3-9 and install the terminal connecting links.
- (2) Install the bottom rear shroud (para 3-13).

3-25. Ground and Electrode Terminal Board

a. Removal.

- (1) Remove the right side shroud (para 3-13).
- (2) Refer to figures 3-4 and 3-5 and remove the ground and electrode terminal board.

b. Cleaning and Inspection.

- (1) Clean all metal parts with an approved cleaning solvent and dry thoroughly. Clean the fiber board with a clean dry cloth.
- (2) Inspect for cracks, breaks, corrosion, or other damage.
- (3) Replace a defective part as necessary.

c. Installation.

- (1) Refer to figures 3-4 and 3-5 and install the ground and electrode terminal board.
- (2) Install the right side shroud (para 3-13).

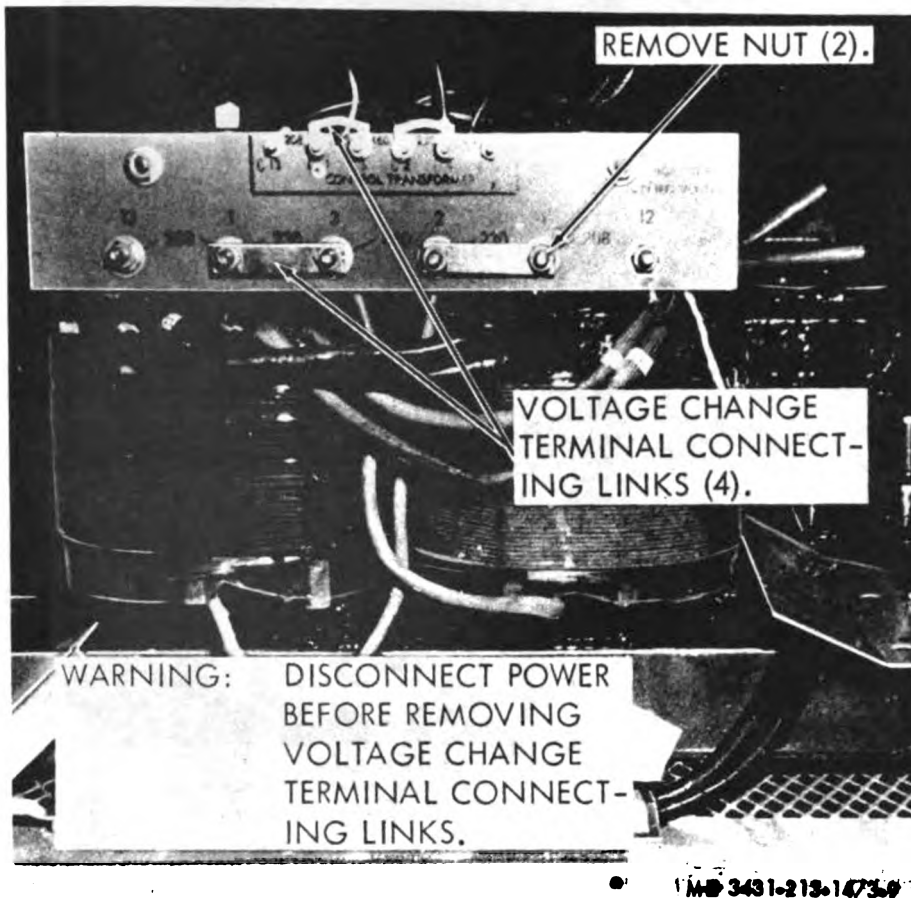


Figure 3-9. Voltage change terminal connecting links, removal and installation.

Section IX. GAS AND WATER SOLENOID VALVES

3-26. General

The gas solenoid valve is used when the operator is doing inert gas arc welding. The water solenoid valve is used only when a watercooled torch is used. The solenoid valves are operated automatically through the post-purge timer.

3-27. Gas and Water Solenoid Valves

a. Removal.

- (1) Remove the left side shroud (para 3-13).
- (2) Refer to figures 3-4 and 3-5 and remove the gas and water solenoid valves.

b. Cleaning and Inspection.

(1) Clean the gas and water solenoid valves with an approved cleaning solvent and dry thoroughly.

(2) Inspect for breaks, cracks, defective or corroded fittings, defective or corroded fittings, defective wire leads, or other damage.

(3) Replace a defective solenoid valve as necessary.

c. Installation.

(1) Refer to figures 3-4 and 3-5 and install the gas and water solenoid valves.

(2) Install the left side shroud (para 3-13).

Section X. VENTILATING-COOLING SYSTEM

3-28. General

The welding machine is cooled by a fan motor assembly which operates from the control transformer. It has three aluminum blades which pull

the air through the welder and out the back. The ballast resistor is mounted with the fan guard so it can be cooled by the air flow through the fan. To make any repairs on the motor, fan blade, or guard, the complete assembly must be removed.

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

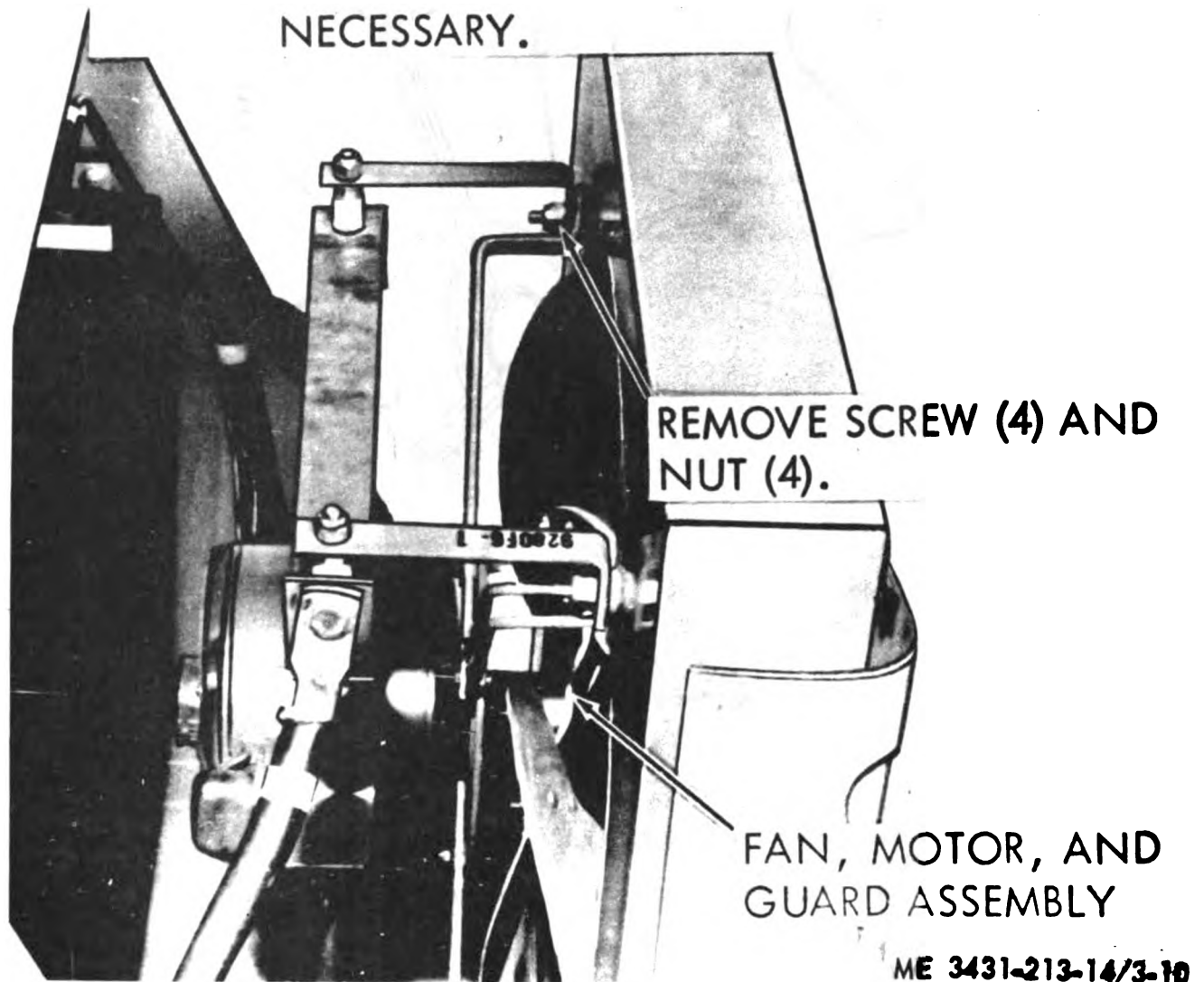


Figure 3-10. Fan, motor, and guard assembly, removal and installation.

3-29. Fan, Motor, and Guard Assembly

a. Removal.

- (1) Remove the side shrouds (para 3-13).
- (2) Remove the top rear shroud with the fan, motor and guard assembly (para 3-13).
- (3) Refer to figure 3-10 and remove the fan, motor and guard from the top rear shroud as a complete unit.

b. Disassembly. Refer to figure 3-11 and disassemble the fan, motor, and guard assembly.

c. Cleaning and Inspection.

- (1) Clean all parts with an approved cleaning solvent and dry thoroughly.

- (2) Inspect for wear, broken parts, cracks, bent blades, broken or corroded wire leads, damaged insulation, or other damage.

- (3) Replace defective parts as necessary.

d. Reassembly. Refer to figure 3-11 and reassemble the fan, motor and guard assembly.

e. Installation.

- (1) Refer to figure 3-10 and attach the fan, motor and guard to the top rear shroud as a complete unit.

- (2) Install the top rear shroud with the fan, motor, and guard assembly (para 3-13).

- (3) Install the side shrouds (para 3-13).

CHAPTER 4

SHIPMENT AND LIMITED STORAGE AND DEMOLITION TO PREVENT ENEMY USE

Section I. SHIPMENT AND LIMITED STORAGE

4-1. Preparation of Equipment for Shipment

a. General. Detailed instructions for the preparation of engineer equipment for domestic shipment are outlined below. Preservation will be accomplished in sequence that will not require the operation of previously preserved components.

b. Inspection. The welding machine will be inspected for any unusual conditions such as damage, rusting, accumulation of water and pilferage. Inspection of the individual components and assemblies will be as outlined on the "Preventive Maintenance Checks and Services, Quarterly" in this manual.

c. Cleaning and Drying. Clean all surfaces with an approved cleaning solvent and dry thoroughly. Refer to TM 38-230 for choice and application of cleaning method.

d. Painting. Paint all surfaces on which the paint has been removed or damaged. Refer to TM 9-213 for detailed cleaning and painting instructions.

e. Depreservation Guide. DA Form 2258 (Depreservation Guide of Engineer Equipment).

(1) A properly annotated depreservation guide will be completed concurrently with preservation for each item of mechanical equipment with all peculiar requirements outlined in the remarks column. The completed depreservation guide will be placed with the equipment in a waterproof envelope, marked "Depreservation Guide," and fastened in a conspicuous location on or near the operator's controls.

(2) Prior to placing equipment in operation or to the extent necessary for inspection, depreservation of the item will be performed as outlined on the depreservation guide.

f. Sealing of Openings. The fan guard opening located in the back panel of the welding machine will be covered with waterproof paper and sealed

with type III, class I, pressure sensitive tape conforming to Specification PPP-T-60.

g. Marking. Markings will conform to MIL-STD-129.

h. Disassembly, Disassembled Parts, and Basic Issue Items.

(1) Disassembly will be limited to the removal of parts and projecting components that tend to increase the overall profile of the equipment and that which is subject to pilferage.

(2) Disassembled items will be packed with the publications in the toolbox if possible. Otherwise, items will be packed in a suitable container and secured to the equipment to prevent loss or pilferage.

4-2. Loading Equipment for Shipment

a. Loading.

(1) Be sure the packing crate remains right side up when removing the welding machine to the loading site.

(2) The welding machine can be loaded with either a forklift or crane.

Warning: When using a lifting device to move the welding machine make sure that it has a safe lifting capacity of at least 1,000 pounds. Do not allow the welding machine to swing freely when being lifted. Failure to observe this warning may cause damage to the equipment or serious injury to personnel.

b. Shipping. Block or tie welding machine right side up to the bed of the carrier to prevent shifting while being transported.

4-3. Preparation of Equipment for Storage

a. Detailed instructions for preparation of the welding machine for limited storage are provided in paragraph 4-1. Limited storage is defined as storage not to exceed six (6) months.

b. Every effort should be made to provide covered storage for the welding machine. If this is impossible, select a firm, level, well-drained storage location, protected from prevailing winds. Position the welding machine on heavy planking. Cover the welding machine with a tarpaulin or other suitable waterproof covering and secure in a manner that will provide the welding machine maximum protection from the elements.

Section II. DEMOLITION OF MATERIAL TO PREVENT ENEMY USE

4-5. General

When capture or abandonment of the welding machine to an enemy is imminent, the responsible unit commander must make the decision either to destroy the equipment or to render it inoperative. Based on this decision, orders are issued which cover the desired extent of destruction. Whatever method of demolition is employed, it is essential to destroy the same vital parts of all welding machines and all corresponding repair parts.

Priorities	Parts
1	Controls and instruments
2	Fan motor
3	Electrical wires

4-6. Demolition to Render the Welding Machine Inoperative

Demolition by Mechanical Means. Use sledge hammers, crowbars, picks, axes, or any other heavy tools which may be available to destroy the following:

- a. All controls and instruments.
- b. Ground and electrode terminals.
- c. Gas and water inlet and outlet fittings.
- d. Contactor.

Note. The above procedures are minimum requirements for this method.

- e. Fan motor.
- f. Reactors, rectifiers, and transformers.
- g. Cut all electrical wires and leads.

4-7. Demolition by Explosives or Weapons Fire

a. *Explosives.* Place as many of the following charges as the situation permits and detonate them simultaneously with detonating cord or a

4-4. Inspection and Maintenance of Equipment in Storage

When the welding machine has been placed in storage, all scheduled preventive maintenance services, including inspection, will be suspended and preventive maintenance checks and services, quarterly will be performed every 90 days. All deficiencies will be recorded on DA Form 2404, together with corrective action.

suitable detonator. Place one 1/2 pound charge on control panel and place one 1/2 pound charge on voltage changeover board.

b. *Weapons Fire.* Fire on the welding machine with the heaviest practical weapons available.

4-8. Other Demolition Methods

a. *Scattering and Concealment.* Remove all easily accessible parts such as the rectifiers, reactors, and transformers. Scatter them through dense foliage, bury them in dirt or sand, or throw them in a lake, stream, or other body of water.

b. *Burning.* Pack rags, paper, or other combustible material around and in the main transformer. Saturate this packing with gasoline, oil, or diesel fuel and ignite.

c. *Submersion.* Totally submerge the welding machine in a body of water to provide water damage and concealment. Salt water will damage metal parts more than fresh water.

4-9. Training

All operators should receive thorough training in the destruction of the welding machine. Refer to FM 5-25. Simulated destruction, using all of the methods listed above, should be included in the operator training program. It must be emphasized in training that demolition operations are usually necessitated by critical situations when time available for carrying out destruction is limited. For this reason, it is necessary that operators be thoroughly familiar with all methods of destruction of equipment and be able to carry out demolition instructions without reference to this or any other manual.

CHAPTER 5
DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
INSTRUCTIONS

Section I. GENERAL

5-1. Scope

a. These instructions are published for the use of direct and general support maintenance personnel maintaining the Harnischfeger Model DAR-300HFSG and Model 2100H2007 Welding Machine. They provide information on the maintenance of the equipment, which is beyond the scope of the tools, equipment, personnel, or supplies normally available to using organizations.

b. Report all equipment improvements recommendations as prescribed by TM 38-750.

5-2. Forms and Records

a. DA Form and records used for equipment

maintenance will be only those prescribed in TM 38-750.

b. The direct reporting of errors, omissions, and recommendations for improving this equipment publication by the individual user is authorized and encouraged. DA Form 2028 (Recommended Changes to Publications) will be used for reporting these improvements. This form may be completed using pencil, pen, or typewriter. DA Form 2028 will be completed by the individual using the manual and forwarded direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

Section II. DESCRIPTION AND DATA

5-3. Description

For a complete description of the welding machine, refer to paragraph 1-3.

5-4. Tabulated Data

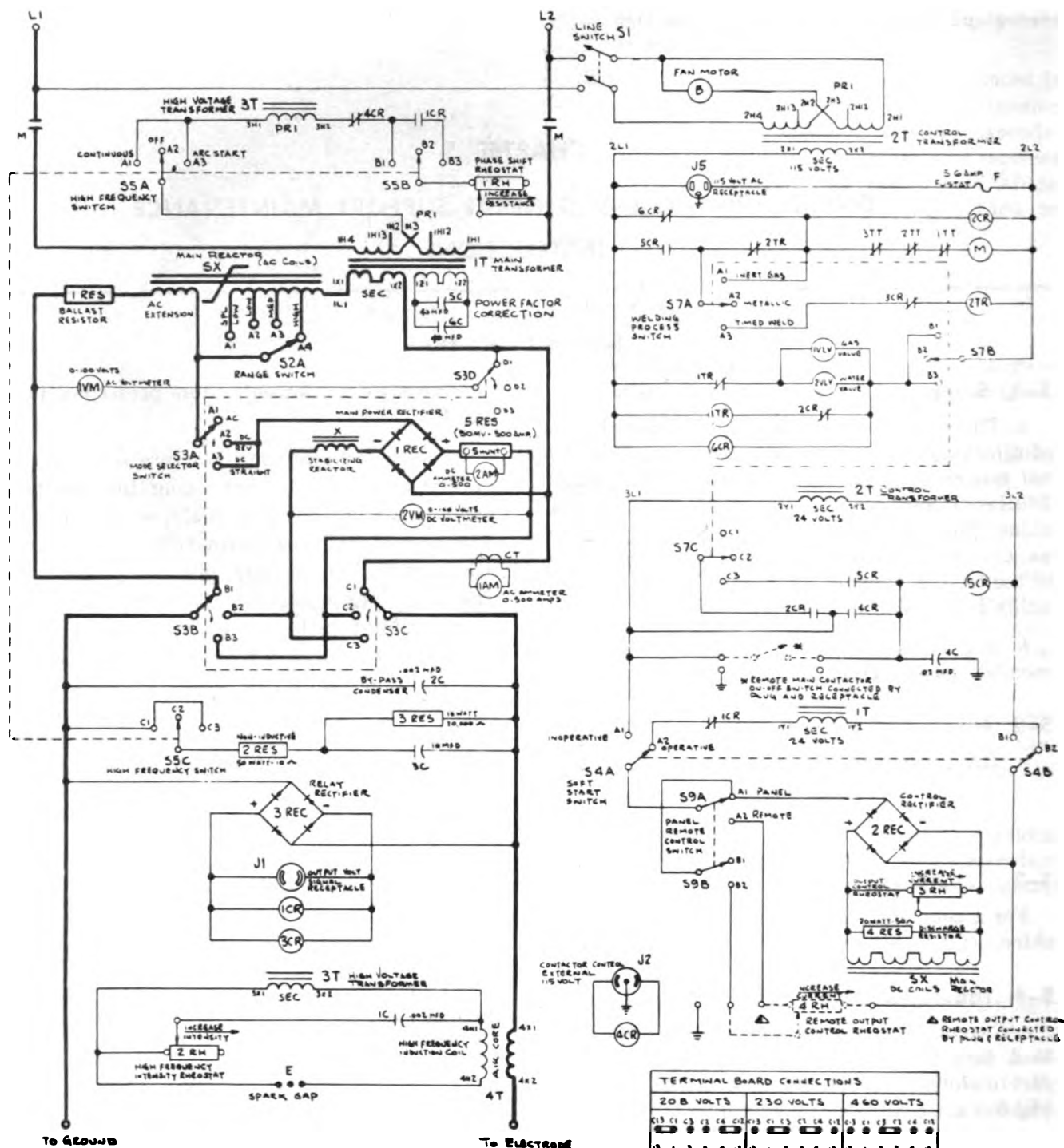
a. General. This paragraph contains all the overhaul data pertinent to direct and general support maintenance personnel. A wiring diagram (fig. 5-1 and 5-2) is also included.

b. Control Transformer.

Primary	208/230/460 v
Cycles	50/60
Secondary	115 and 25 v

c. High Frequency Transformer.

Primary	230 v
Cycles	60
Secondary	3000 v



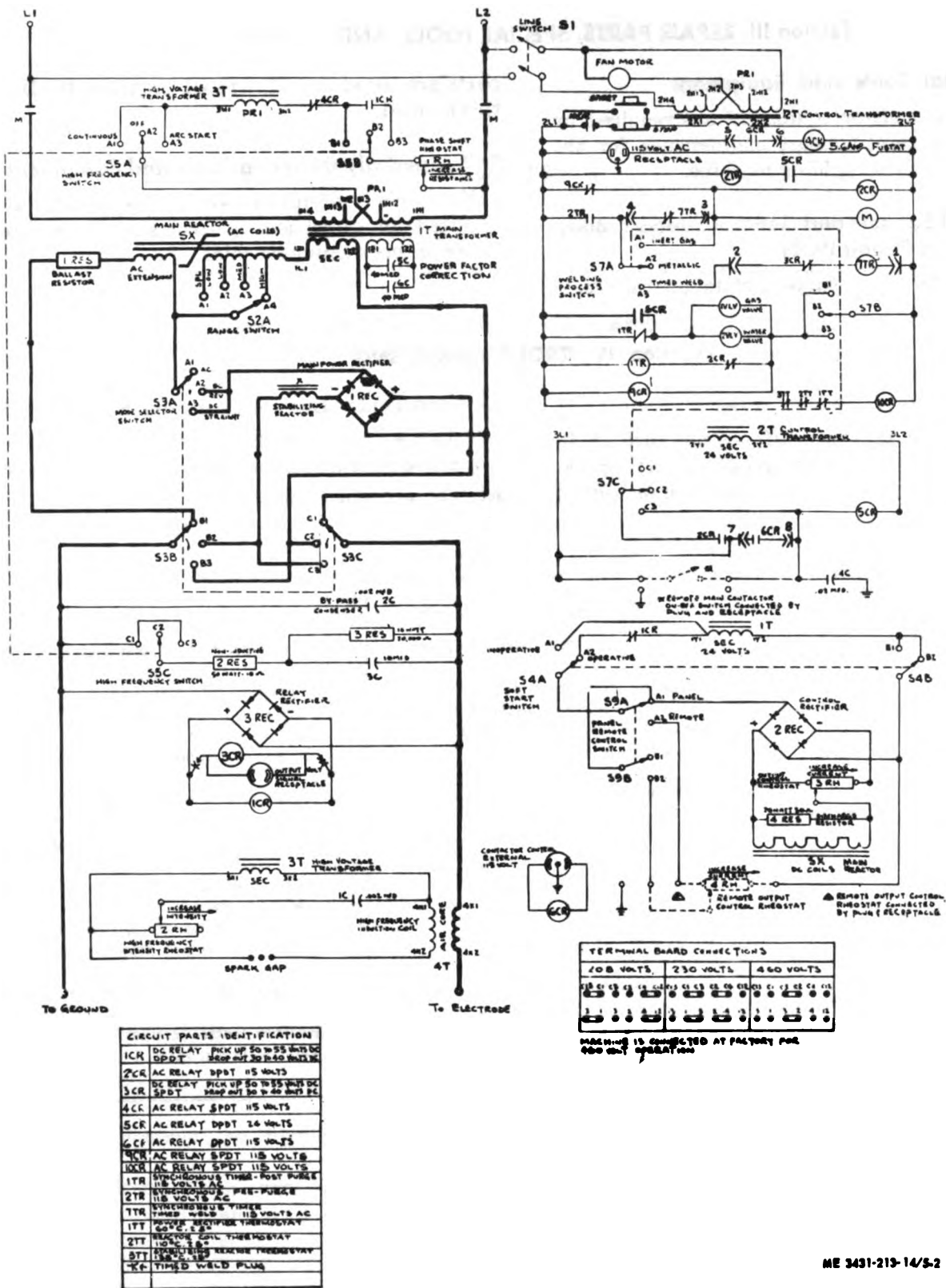
CIRCUIT PARTS IDENTIFICATION	
1CR	DC RELAY PICK UP 50 TO 55 VOLTS DC DROP OUT 30 TO 40 VOLTS DC
2CR	AC RELAY DPDT 115 VOLTS
3CR	DC RELAY PICK UP 50 TO 55 VOLTS DC DROP OUT 30 TO 40 VOLTS DC
4CR	AC RELAY DPDT 115 VOLTS
5CR	AC RELAY DPDT 24 VOLTS
6CR	AC RELAY SPDT 115 VOLTS
1TR	SYNCHRONOUS TIMER - POST PURGE 115 VOLTS AC
2TR	SYNCHRONOUS TIMER - TIME WELD 115 VOLTS AC
1TT	POWER RECTIFIER THERMOSTAT 50°C ± 2°
2TT	REACTOR COIL THERMOSTAT 100°C ± 2°
3TT	STABILIZING REACTOR THERMOSTAT 135°C ± 2°

TERMINAL BOARD CONNECTIONS		
208 VOLTS	230 VOLTS	460 VOLTS
S13 C1 C2 C3 C4 C5 C6 C7 C8 C9	S13 C1 C2 C3 C4 C5 C6 C7 C8 C9	S13 C1 C2 C3 C4 C5 C6 C7 C8 C9
1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10

MACHINE IS CONNECTED AT FACTORY FOR 460 VOLT OPERATION

Figure 5-1. Schematic wiring diagram, Model DAR-300HFSG.

ME 3431-213-14/5-1



CIRCUIT PARTS IDENTIFICATION

1CR	DC RELAY PICK UP 50 TO 55 VOLTS DC DPDT
2CR	AC RELAY DPDT 115 VOLTS
3CR	DC RELAY PICK UP 50 TO 55 VOLTS DC SPDT
4CR	AC RELAY SPDT 115 VOLTS
5CR	AC RELAY DPDT 115 VOLTS
6CR	AC RELAY DPDT 115 VOLTS
7CR	AC RELAY SPDT 115 VOLTS
8CR	AC RELAY SPDT 115 VOLTS
9CR	AC RELAY SPDT 115 VOLTS
10CR	AC RELAY SPDT 115 VOLTS
11CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
12CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
13CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
14CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
15CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
16CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
17CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
18CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
19CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
20CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
21CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
22CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
23CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
24CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
25CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
26CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
27CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
28CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
29CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
30CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
31CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
32CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
33CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
34CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
35CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
36CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
37CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
38CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
39CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
40CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
41CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
42CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
43CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
44CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
45CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
46CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
47CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
48CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
49CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
50CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
51CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
52CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
53CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
54CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
55CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
56CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
57CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
58CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
59CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
60CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
61CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
62CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
63CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
64CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
65CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
66CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
67CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
68CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
69CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
70CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
71CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
72CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
73CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
74CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
75CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
76CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
77CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
78CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
79CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
80CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
81CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
82CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
83CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
84CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
85CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
86CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
87CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
88CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
89CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
90CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
91CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
92CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
93CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
94CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
95CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
96CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
97CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
98CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
99CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC
100CR	SYNCHRONOUS TIME-POST PURGE 115 VOLTS AC

TERMINAL BOARD CONNECTIONS

100 VOLTS	250 VOLTS	450 VOLTS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

MACHINE IS CONNECTED AT FACTORY FOR 450 VOLT OPERATION

ME 3431-219-14/5-2

Figure 5-2. Schematic wiring diagram, Model 2100H2037.

Section III. REPAIR PARTS, SPECIAL TOOLS, AND EQUIPMENT

5-5. Special Tools and Equipment

No special tools or equipment are required by direct and general support maintenance for the maintenance of this welding machine.

5-6. Direct Support and General Support Maintenance Repair Parts

Direct and General support maintenance repair

parts are listed and illustrated in Appendix D of this manual.

5-7. Specially Designed Tools and Equipment

No specially designed tools and equipment are required for direct and general support maintenance of this welding machine.

Section IV. TROUBLESHOOTING

5-8. General

This section provides information useful in diagnosing and correcting unsatisfactory operation or failure of the welding machine or any of

its components. Each malfunction stated is followed by a list of probable causes of trouble. The corrective action recommended is described opposite the probable cause.

Table 5-1. Troubleshooting

Malfunction	Probable cause	Corrective action
1. Welding Machine Smokes Excessively.	a. Main transformer defective.....	a. Repair or replace transformer (para 6-28).
2. Polarity Cannot be Selected.....	b. Control transformer defective..... Polarity selector switch defective.....	b. Replace transformer (para 6-27). Replace switch (para 6-3).
3. Range Cannot be Selected.....	Range selector switch defective.....	Replace switch (para 6-3).
4. Welding Maching Fails to Start....	a. Main transformer defective.....	a. Repair or replace transformer (para 6-28).
5. Welding Machine Operates Erratically.	b. Wiring defective.....	b. Repair or replace wiring (para 6-30).
	a. Power rectifier defective.....	a. Replace rectifier (para 6-9).
	b. Output control rheostat defective.....	b. Replace output control rheostat (para 6-4).
	c. Range switch contacts dirty, greasy or bent.	c. Clean or straighten contacts, or replace range switch (para 6-3).
6. Contactor Breaks Circuit.....	a. Wiring shorted.....	a. Repair or replace wiring (para 6-30).
	b. Main transformer shorted.....	b. Repair or replace transformer (para 6-28).
7. No Current Control.....	a. Output control rheostat defective.....	a. Replace output control rheostat (para 6-4).
	b. Control rectifier defective.....	b. Replace control rectifier (para 6-9).
	c. Saturable reactor dc coil shorted, grounded or open.	c. Replace dc coil (para 6-14).

CHAPTER 6

REPAIR INSTRUCTIONS

Section I. CONTROL PANEL, RANGE AND POLARITY SELECTOR SWITCHES, RHEOSTATS, AND RELAY PANEL ASSEMBLY

6-1. General

All of the welding machine controls, instruments, receptacles, and connection devices except for the power and ground connections are mounted to the control panel. The range selector switch is used to select desired welding current range and the polarity selector switch is used to select ac, dc, or dc reverse polarity. The output control rheostat controls welding current within the selected range. The phase shift and intensity rheostats are adjusted for best high frequency operating conditions. The relay panel mounts the control relays, control and relay rectifiers, and a terminal board.

6-2. Control Panel

a. Model DAR-300HFSG.

(1) *Removal.*

- (a) Remove the side shrouds (para 3-13).
- (b) Remove the output control rheostat (para 6-4).
- (c) Remove the post-purge and timed weld timers (para 3-16).
- (d) Remove the electrical receptacles voltmeters (para 3-17).
- (e) Remove the electrical receptacles (para 3-18).
- (f) Remove the toggle switches (para 3-15).
- (g) Remove the phase shift and intensity rheostats (paras 6-5 and 6-6).
- (h) Remove the range selector switch and polarity selector switch (para 6-3).
- (i) Remove the gas and water solenoid valves (para 3-27).
- (j) Remove the terminal board door by straightening hinge tabs and removing from panel.
- (k) Remove the ground and electrode terminal board (para 3-25).
- (l) Remove the fuse and fuseholder (para 3-18).

(m) Remove the relay panel assembly (para 6-7).

(n) Refer to figure 6-1 and remove the control panel.

(2) *Cleaning and Inspection.*

(a) Clean the control panel with an approved cleaning solvent and dry thoroughly.

(b) Inspect the control panel for dents, breaks, cracks, scratches, or other damage. Inspect identification and instruction plates for obliteration of data.

(c) Replace a defective identification or instruction plate or the control panel as necessary.

(3) *Installation.*

(a) Refer to figure 6-1 and install the control panel.

(b) Install the relay panel assembly (para 6-7).

(c) Install the fuse and fuseholder (para 3-18).

(d) Install the ground and electrode terminal board (para 3-25).

(e) Install the terminal board door by inserting it in the control panel and bending the hinge tabs outwards 30 degrees.

(f) Install the gas and water solenoid valves (para 3-27).

(g) Install the range selector switch and polarity selector switch (para 6-3).

(h) Install the phase shift and intensity rheostats (paras 6-5 and 6-6).

(i) Install the toggle switches (para 3-15).

(j) Install the electrical receptacles (para 3-18).

(k) Install the ac and dc ammeters and voltmeters (para 3-17).

(l) Install the post-purge and timed weld timers (para 3-16).

(m) Install the output control rheostat (para 6-4).

(n) Install the side shrouds (para 3-13).

b. Model 2100H2007.

(1) Removal.

- (a) Remove the side shrouds (para 3-13).
- (b) Remove the output control rheostat (para 6-4).
- (c) Remove the post-purge and pre-purge timers, and the timed weld kit (para 3-16).
- (d) Remove the electrical receptacles (para 3-18).
- (e) Remove the pushbutton switch (para 3-21).
- (f) Remove the toggle switches (para 3-15).
- (g) Remove the phase shift and intensity rheostats (paras 6-5 and 6-6).
- (h) Remove the range selector switch and polarity selector switch (para 6-3).
- (i) Remove the gas and water solenoid valves (para 3-27).
- (j) Remove the terminal board door by straightening hinge tabs and removing from panel.
- (k) Remove the ground and electrode terminal board (para 3-25).
- (l) Remove the fuse and fuseholder (para 3-18).
- (m) Remove the relay panel assembly (para 6-7).
- (n) Refer to figure 6-2 and remove the control panel.

(2) Cleaning and Inspection.

- (a) Clean the control panel with an approved cleaning solvent and dry thoroughly.
- (b) Inspect the control panel for dents, breaks, cracks, scratches, or other damage. Inspect identification and instruction plates for obliteration of data.
- (c) Replace a defective identification or instruction plate or the control panel as necessary.

(3) Installation.

- (a) Refer to figure 6-2 and install the control panel.
- (b) Install the relay panel assembly (para 6-7).
- (c) Install the fuse and fuseholder (para 3-18).
- (d) Install the ground and electrode terminal board (para 3-25).
- (e) Install the terminal board door by inserting it in the control panel and bending the hinge tabs outward 30 degrees.

(f) Install the gas and water solenoid valves (para 3-27).

(g) Install the range selector switch and polarity selector switch (para 6-3).

(h) Install the phase shift and intensity rheostats (paras 6-5 and 6-6).

(i) Install the toggle switches (para 3-15).

(j) Install the electrical receptacles (para 3-18).

(k) Install the pushbutton switch (para 3-19).

(l) Install the post-purge and pre-purge timers, and the timed weld kit (para 3-16).

(m) Install the output control rheostat (para 6-4).

(n) Install the side shrouds (para 3-13).

6-3. Range and Polarity Selector Switches

a. Removal.

- (1) Remove the side shrouds (para 3-13).
- (2) Refer to figures 6-3 and 6-4 and remove the range and polarity selector switches.

b. Cleaning and Inspection.

- (1) Clean all parts with an approved cleaning solvent and dry thoroughly.
- (2) Inspect all parts for corrosion, wear, cracks, and other damage.
- (3) Replace a defective switch as necessary.

c. Installation.

- (1) Refer to figures 6-3 and 6-4 and install the range and polarity selector switches.
- (2) Install the side shrouds (para 3-13).

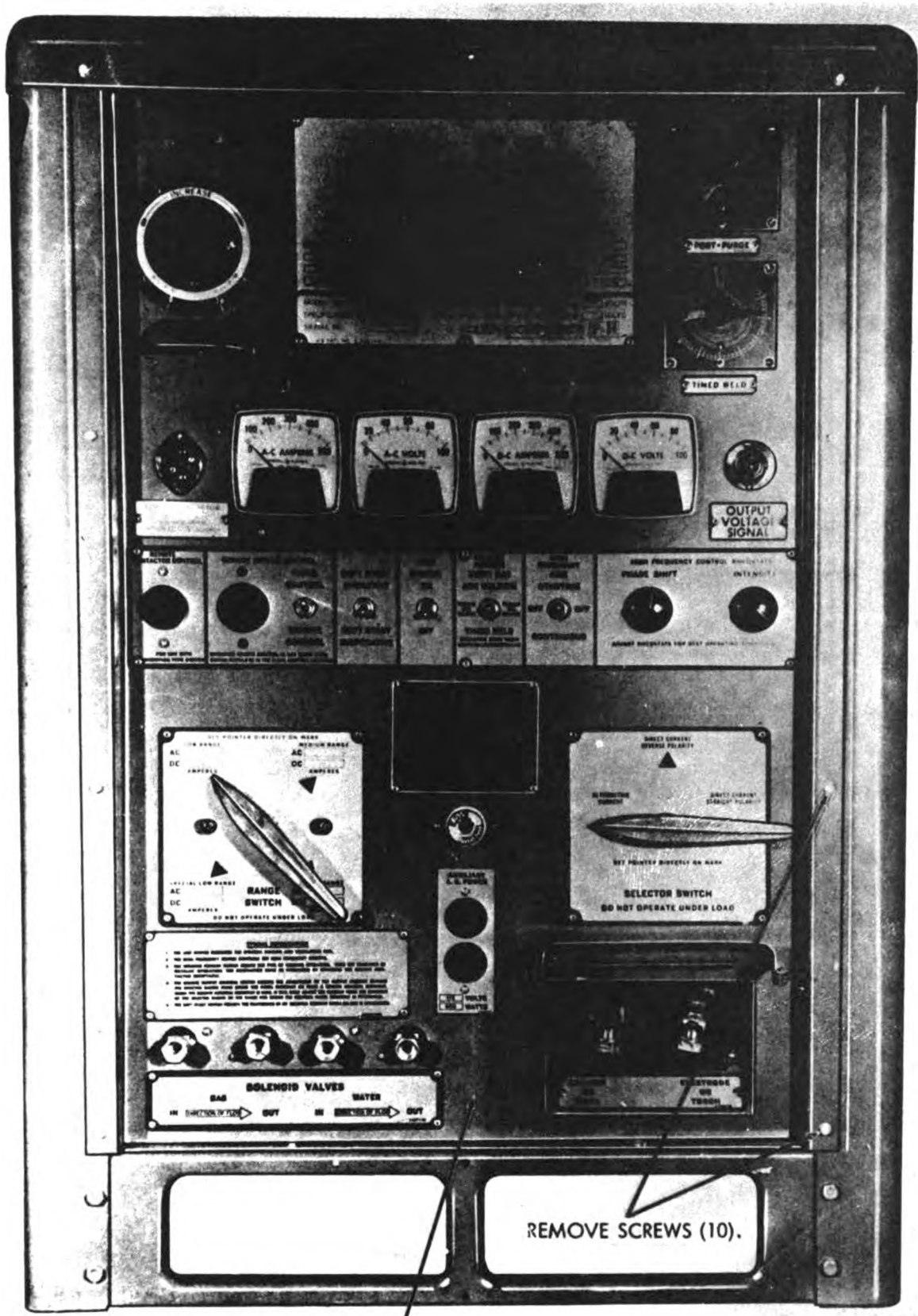
6-4. Output Control Rheostat

a. Removal.

- (1) Remove the left side shroud (para 3-13).
- (2) Refer to figures 6-3 and 6-4 and remove the output control rheostat.

b. Cleaning and Inspection.

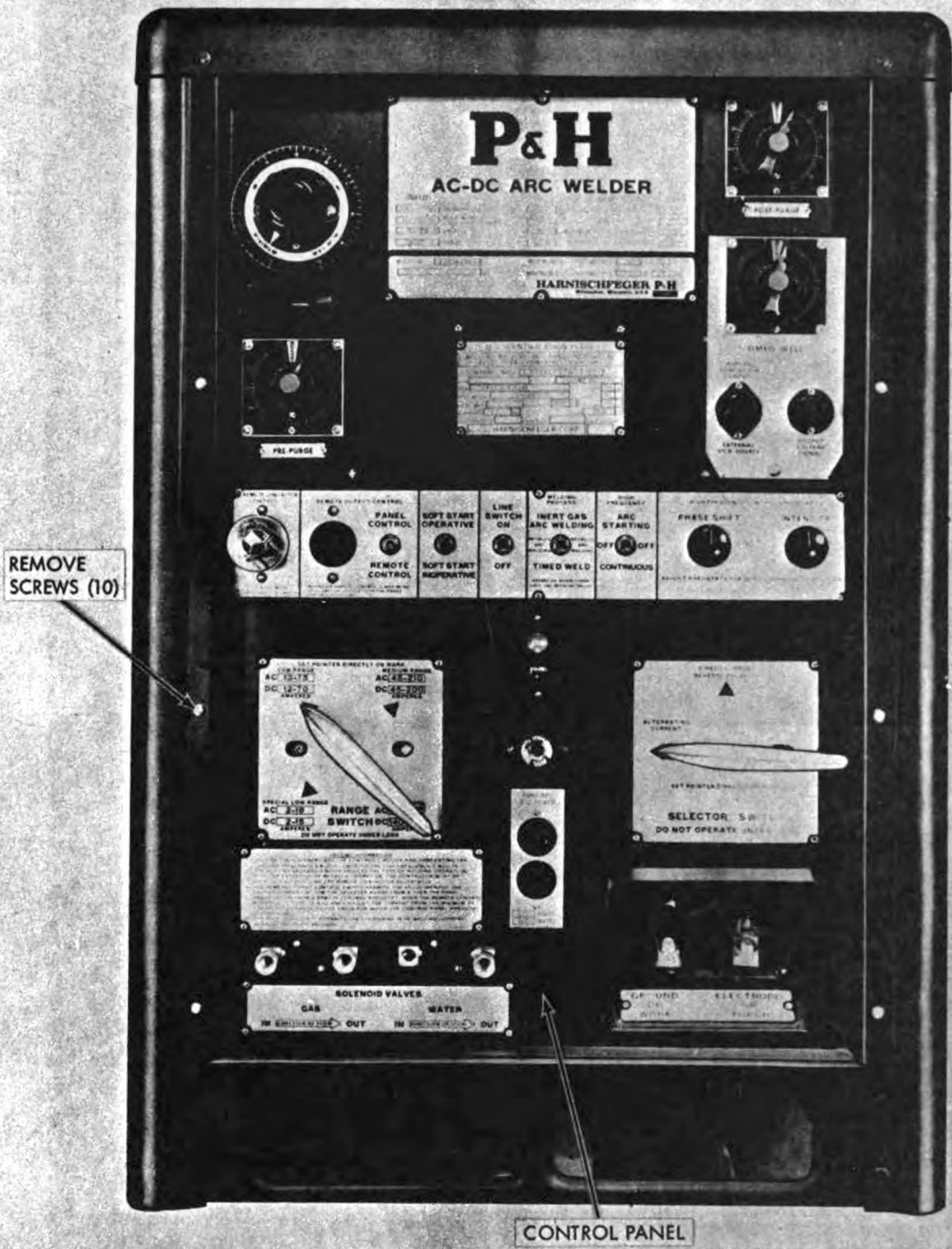
- (1) Clean the rheostat with a clean, dry cloth.
- (2) Inspect for wear, corrosion, breaks, cracks, or other damage.
- (3) Replace a defective output control rheostat as necessary.



CONTROL PANEL

ME 843L213-14/41

Figure 6-1. Control panel, removal and installation, Model DAR-300HFSG.



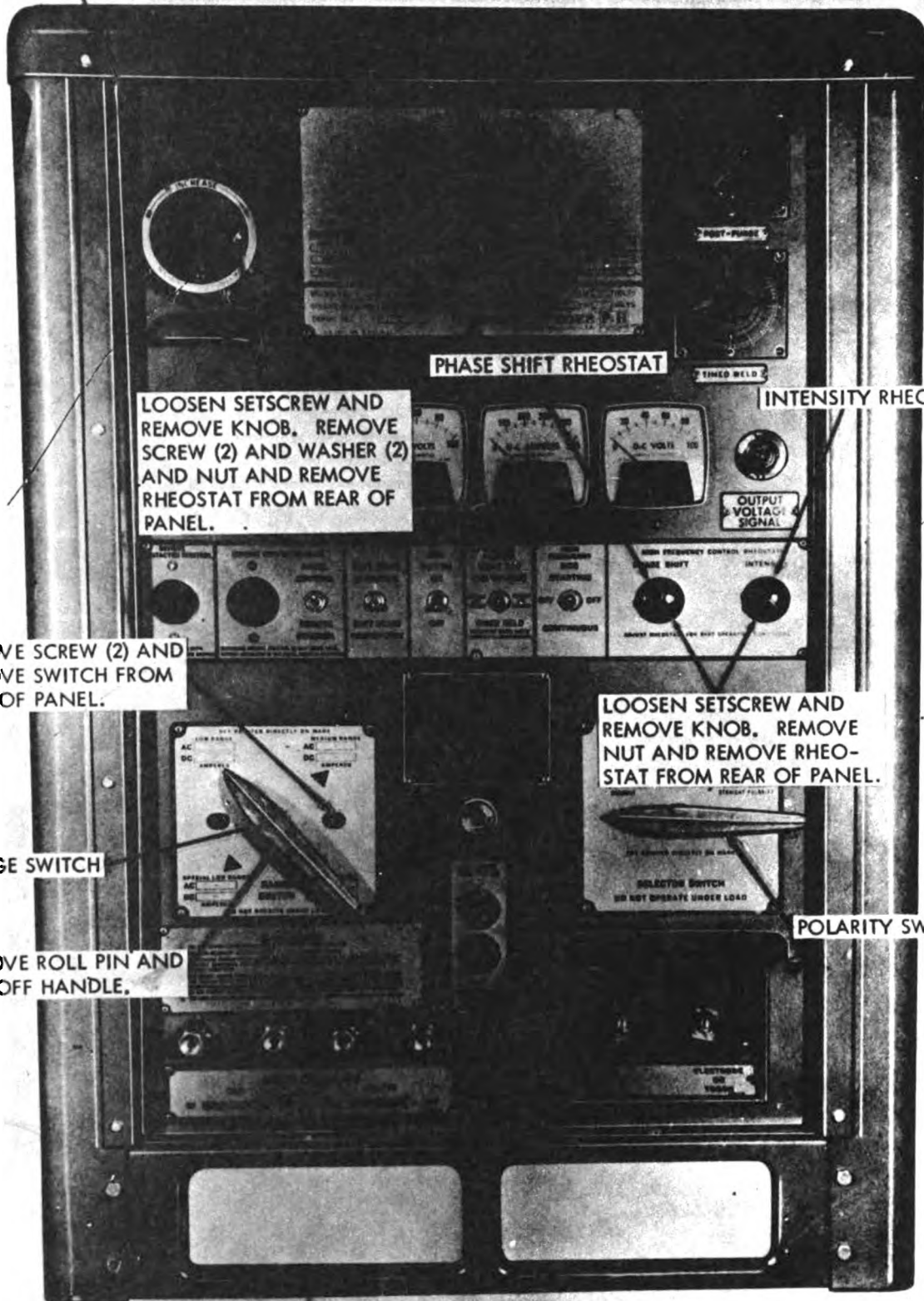
REMOVE SCREWS (10)

CONTROL PANEL

ME 3431-213-14/6-2

Figure 6-2. Control panel, removal and installation, Model 2100H2007.

OUTPUT CONTROL RHEOSTAT



LOOSEN SETSCREW AND REMOVE KNOB. REMOVE SCREW (2) AND WASHER (2) AND NUT AND REMOVE RHEOSTAT FROM REAR OF PANEL.

INTENSITY RHEOSTAT

REMOVE SCREW (2) AND REMOVE SWITCH FROM REAR OF PANEL.

LOOSEN SETSCREW AND REMOVE KNOB. REMOVE NUT AND REMOVE RHEOSTAT FROM REAR OF PANEL.

RANGE SWITCH

POLARITY SWITCH

REMOVE ROLL PIN AND LIFT OFF HANDLE.

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY

WE 3431-213-14/6-3

Figure 6-3. Range and polarity selector switches, output control, phase shift and intensity rheostats, removal and installation, Model DAR-300HFSG.

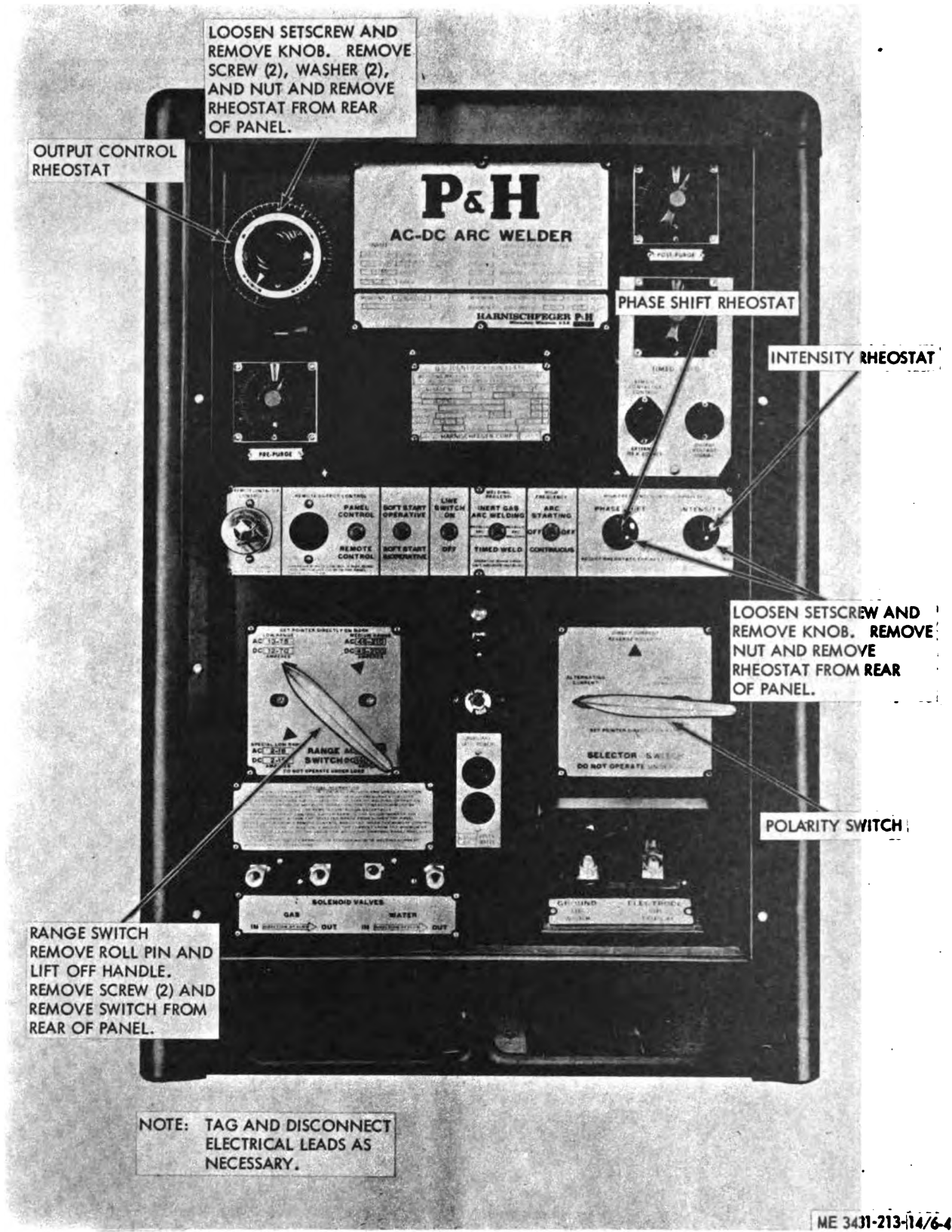


Figure 6-4. Range and polarity selector switches, output control, phase shift, and intensity rheostat, removal and installation, Model 2100H2007.

c. Test.

(1) Connect an ohmmeter to the two outer terminals of the rheostat and set the meter on RX1 scale. The reading should be 6.2 ohms. If reading is more or less than 6.2 ohms, replace the rheostat.

(2) Connect an ohmmeter to the center terminal and either outside terminal of the rheostat. Set the meter on RX1 scale. Turn the rheostat in either direction until it stops, then turn it in the opposite direction slowly and evenly until it stops again. The indicator on the meter should increase or decrease evenly according to the speed at which the rheostat is turned. If meter indicator does not function as described, replace the rheostat.

Note. Make sure that the ohmmeter used for the above tests is in proper working condition.

d. Installation.

(1) Refer to figures 6-3 and 6-4 and install the output control rheostat.

(2) Install the left side shroud (para 3-13).

6-5. Phase Shift Rheostat

a. Removal.

(1) Remove the right side shroud (para 3-13).

(2) Refer to figures 6-3 and 6-4 and remove the phase shift rheostat.

b. Cleaning and Inspection.

(1) Clean the phase shift rheostat with a clean, dry cloth.

(2) Inspect for breaks, cracks, corrosion, or other damage.

(3) Replace a defective phase shift rheostat as necessary.

c. Test.

(1) Connect an ohmmeter to the two outer terminals of the rheostat and set the meter on RX10 scale. The reading should be 400 ohms. If reading is more or less than 400 ohms, replace rheostat.

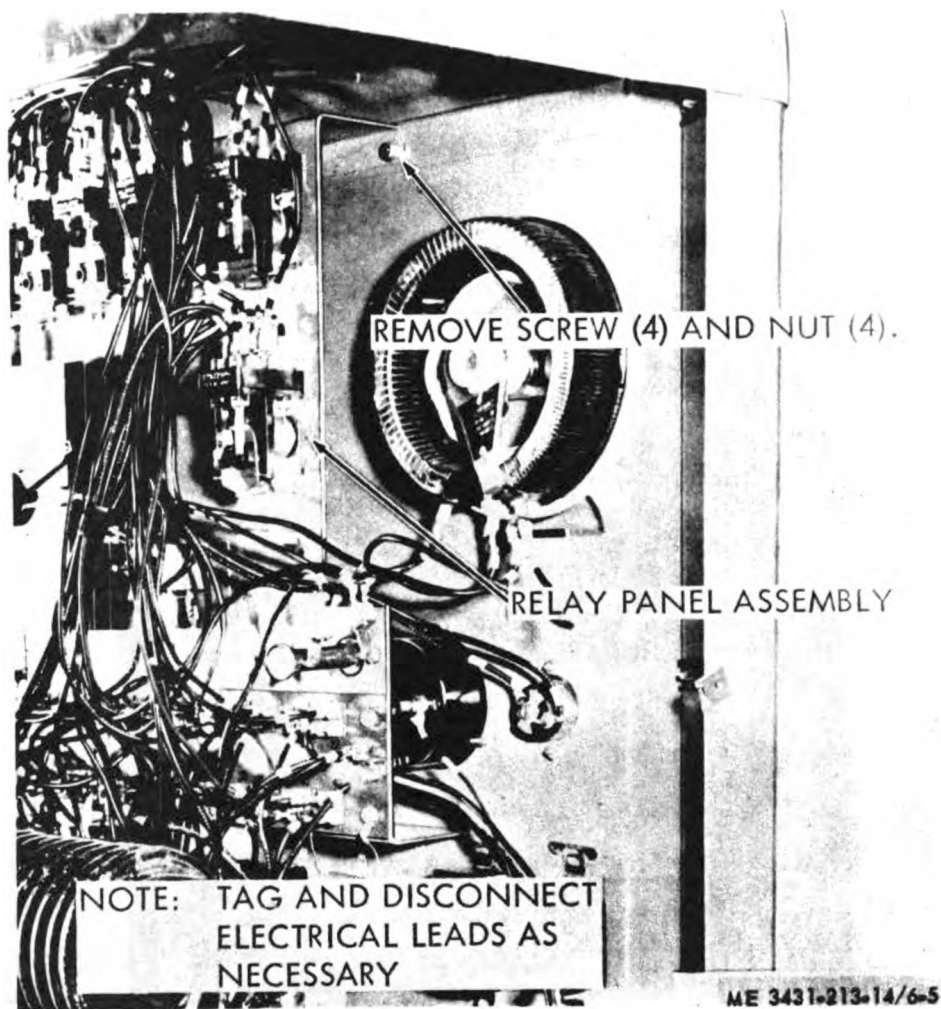


Figure 6-5. Relay panel assembly, removal and installation, Model DAR-300HFSG.

(2) Connect an ohmmeter to the center terminal and either outside terminal of the rheostat. Set the meter on RX10 scale. Turn the rheostat in either direction until it stops, then turn it in the opposite direction slowly and evenly until it stops again. The indicator on the meter should increase or decrease evenly according to the speed at which the rheostat is turned. If meter indicator does not function as described, replace the rheostat.

Note. Make sure that the ohmmeter used for the above tests is in proper working condition.

d. Installation.

(1) Refer to figures 6-3 and 6-4 and install the phase shift rheostat.

(2) Install the right side shroud (para 3-13).

6-6. Intensity Rheostat

a. Removal.

(1) Remove the right side shroud (para 3-13).

(2) Refer to figures 6-3 and 6-4 and remove the intensity rheostat.

b. Cleaning and Inspection.

(1) Clean the intensity rheostat with a clean, dry cloth.

(2) Inspect for breaks, cracks, corrosion, or other damage.

(3) Replace a defective intensity rheostat as necessary.

c. Test.

(1) Connect an ohmmeter to the two outer terminals of the rheostat and set the meter on RX1 scale. The reading should be 5 ohms. If reading is more or less than 5 ohms, replace the rheostat.

(2) Connect an ohmmeter to the center terminal and either outside terminal of the rheostat. Set the meter on RX1 scale. Turn the rheostat in either direction until it stops, then turn it in the opposite direction slowly and evenly until it stops again. The indicator on the meter should increase or decrease evenly according to the speed at which the rheostat is turned. If meter indicator does not function as described, replace the rheostat.

Note. Make sure that the ohmmeter used for the above tests is in proper working condition.

d. Installation.

(1) Refer to figures 6-3 and 6-4 and install the intensity rheostat.

(2) Install the right side shroud (para 3-13).

6-7. Relay Panel Assembly

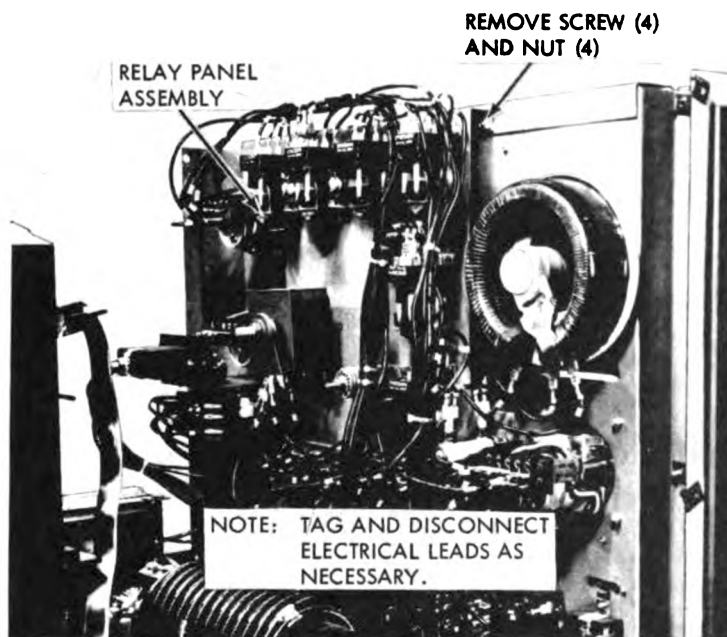
a. Removal.

(1) Remove the side shrouds (para 3-13).

(2) Refer to figures 6-5 and 6-6 and remove the relay panel assembly.

b. Disassembly.

(1) Remove the control relays (para 6-15).



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Figure 6-6. Relay panel assembly, removal and installation, Model 2100H2007.

(2) Remove the control rectifier and relay rectifier (para 6-9).

(3) Remove the capacitor (para 6-10).

(4) Remove the discharge resistor (para 6-11).

(5) Remove the terminal board (para 6-16).

c. Cleaning and Inspection.

(1) Clean the relay panel with an approved cleaning solvent and dry thoroughly.

(2) Inspect the relay panel for dents, breaks, cracks, or other damage.

(3) Replace a defective relay panel as necessary.

d. Reassembly.

(1) Install the terminal board (para 6-16).

(2) Install the discharge resistor (para 6-11).

(3) Install the capacitor (para 6-10).

(4) Install the control rectifier and relay rectifier (para 6-9).

(5) Install the control relays (para 6-15).

e. Installation.

(1) Refer to figures 6-5 and 6-6 and install the relay panel assembly.

(2) Install the side shrouds (para 3-13).

Section II. RECTIFIERS, CAPACITORS, AND RESISTORS

6-8. General

The control rectifier provides dc voltage for the welding current control circuit. The relay rectifier provides dc voltage for the dc control relays. The main power rectifier provides dc voltage for dc straight or reverse polarity welding.

6-9. Rectifiers

a. Removal.

(1) Remove the side shrouds (para 3-13).

(2) Refer to figures 6-7 and 6-9 and remove the control rectifier, the relay rectifier, and the main power rectifier.

Warning: When malfunction of the selenium rectifier occurs, thoroughly ventilate the area to prevent inhalation of poisonous fumes. Do not handle the damaged rectifier while it is warm, to avoid absorption of the poisonous selenium oxide compound through the skin. Failure to observe this warning can result in severe injury or death.

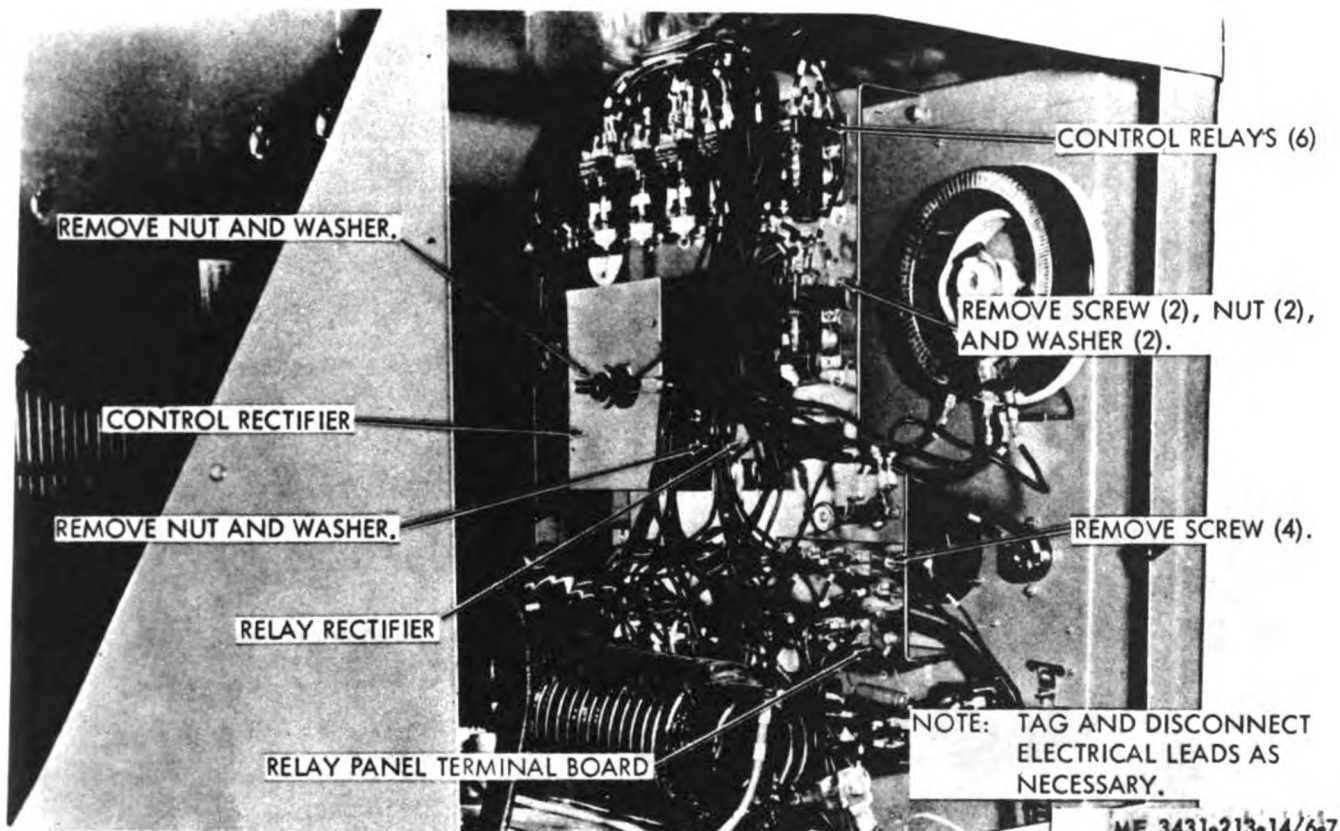


Figure 6-7. Control rectifier, relay rectifier, control relays, and relay panel terminal board, removal and installation, Model DAR-300HFSG.

b. Cleaning and Inspection.

- (1) Clean the rectifiers with a clean, dry cloth.
- (2) Inspect for bent plates, bent or corroded terminals, or other damage.
- (3) Replace a defective or damaged rectifier as necessary.

c. Installation.

- (1) Refer to figures 6-7 and 6-9 and install the control rectifier, the relay rectifier, and the main power rectifier.
- (2) Install the side shrouds (para 3-13).

6-10. Capacitors

a. Removal.

- (1) Remove the side shrouds (para 3-13).
- (2) Refer to figures 6-10 and 6-11 and remove the capacitors.

b. Cleaning and Inspection.

- (1) Clean the capacitors with a clean, dry cloth.
- (2) Inspect for broken, corroded, or damaged leads. Check for signs of overheating or leakage in electrolytic capacitors.
- (3) Replace a defective capacitor as necessary.

c. Test. Connect a suitable capacitor tester to the wire leads and check the capacitors for open or shorted circuit.

d. Installation.

- (1) Refer to figures 6-10 and 6-11 and install the capacitors.
- (2) Install the side shrouds (para 3-13).

6-11. Resistors

a. Removal.

- (1) Remove the side shrouds (para 3-13).
- (2) Refer to figures 6-12 and 6-13 and remove the resistors.

b. Cleaning and Inspection.

- (1) Clean the resistors with a clean, dry cloth.
- (2) Inspect for cracks, breaks, corrosion, evidence of heat, or other damage.
- (3) Replace defective resistors as necessary.

c. Test. Connect an ohmmeter to the resistor leads and check the resistance. The meter reading must conform with the resistor values listed on the schematic wiring diagram, figures 5-1 and 5-2.

d. Installation.

- (1) Refer to figures 6-12 and 6-13 and install the resistors.
- (2) Install the side shrouds (para 3-13).

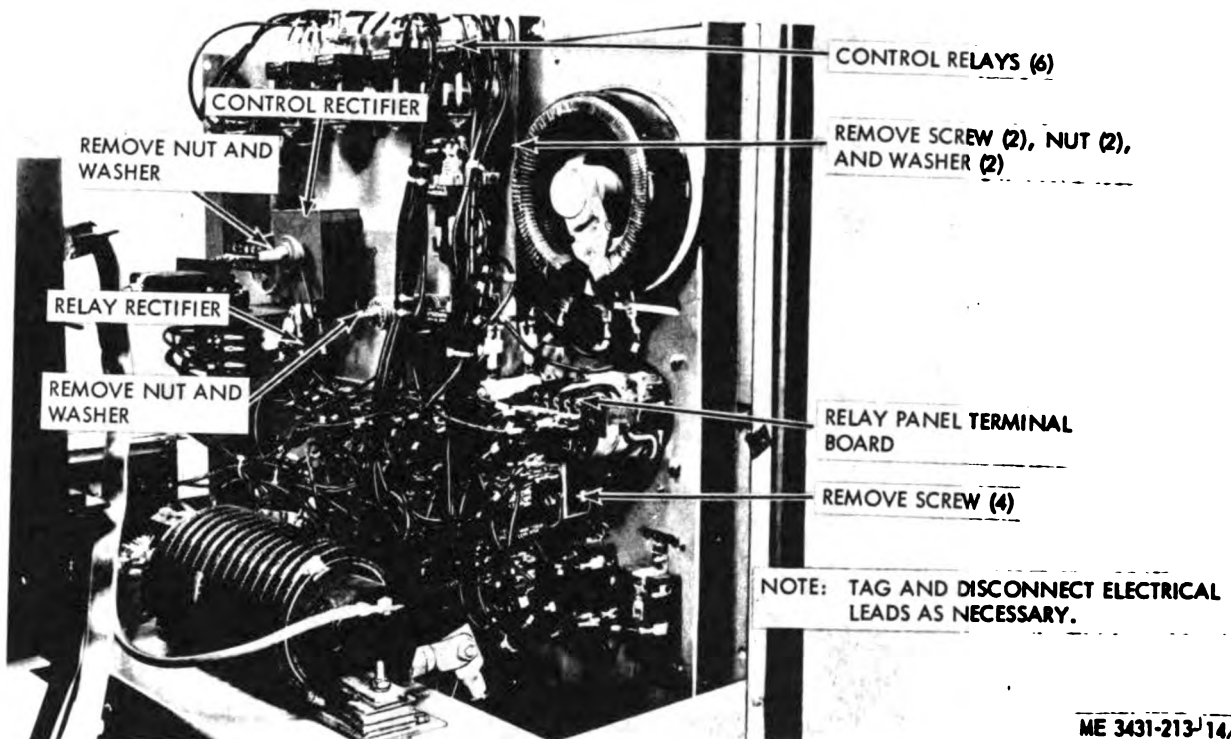


Figure 6-8. Control rectifier, relay rectifier, control relays, and relay panel terminal board, removal and installation, Model 2100H2007.

NOTE: TAG AND DISCONNECT
ELECTRICAL LEADS AS
NECESSARY.

MAIN POWER RECTIFIER

REMOVE NUT (4) AND
WASHER (4).

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Figure 6-9. Main power rectifier, removal and installation.

WARNING: SHORT THE CAPACITOR CONNECTIONS TO GROUND BEFORE REMOVAL. FAILURE TO DO THIS MAY RESULT IN A SERIOUS ELECTRICAL SHOCK.

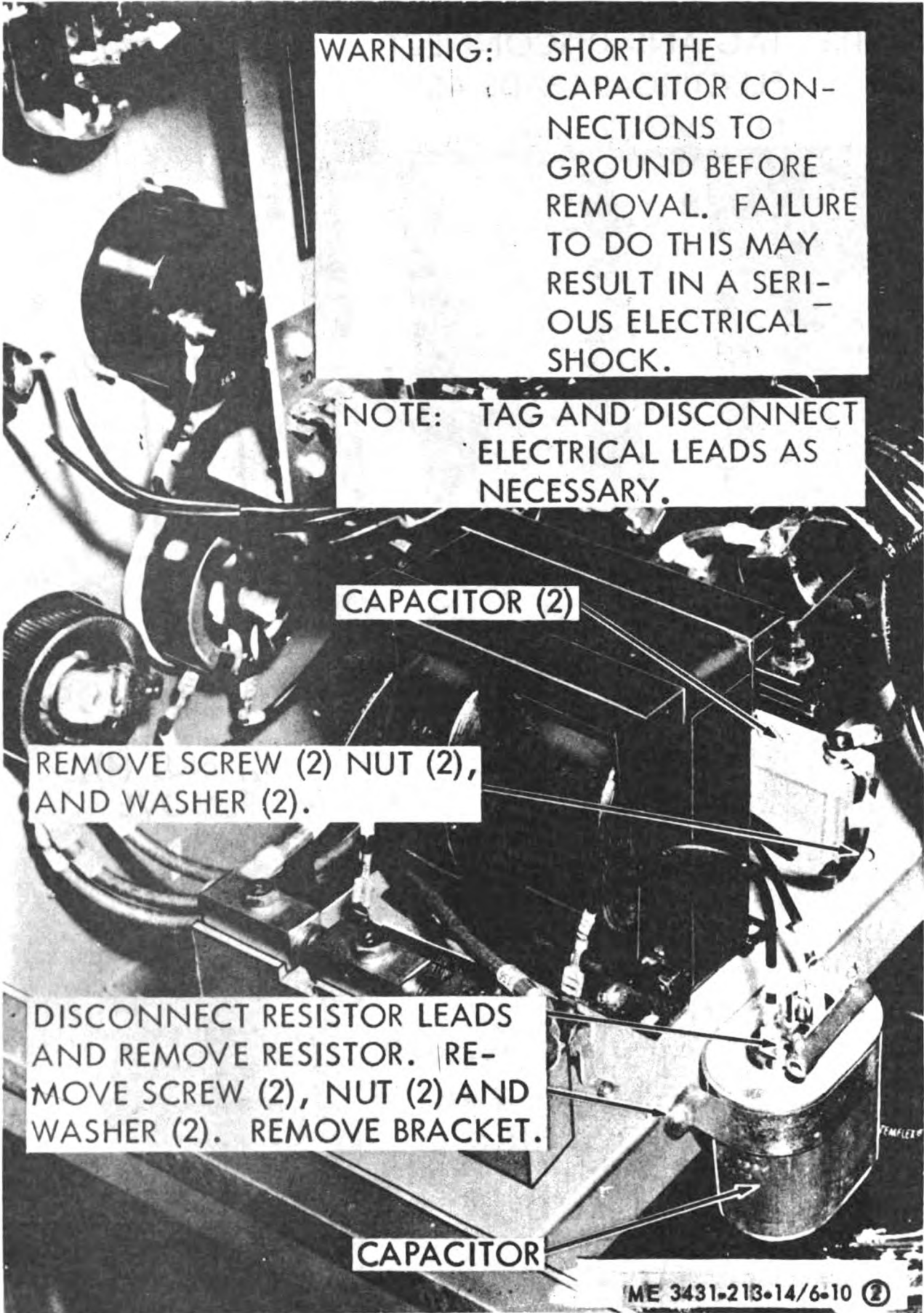
NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

REMOVE SCREW

CAPACITOR

ME 3431-213-14/6-10 ①

Figure 6-10①. Capacitors, removal and installation, Model DAR-300HFSG.



WARNING: SHORT THE CAPACITOR CONNECTIONS TO GROUND BEFORE REMOVAL. FAILURE TO DO THIS MAY RESULT IN A SERIOUS ELECTRICAL SHOCK.

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.

CAPACITOR (2)

REMOVE SCREW (2) NUT (2), AND WASHER (2).

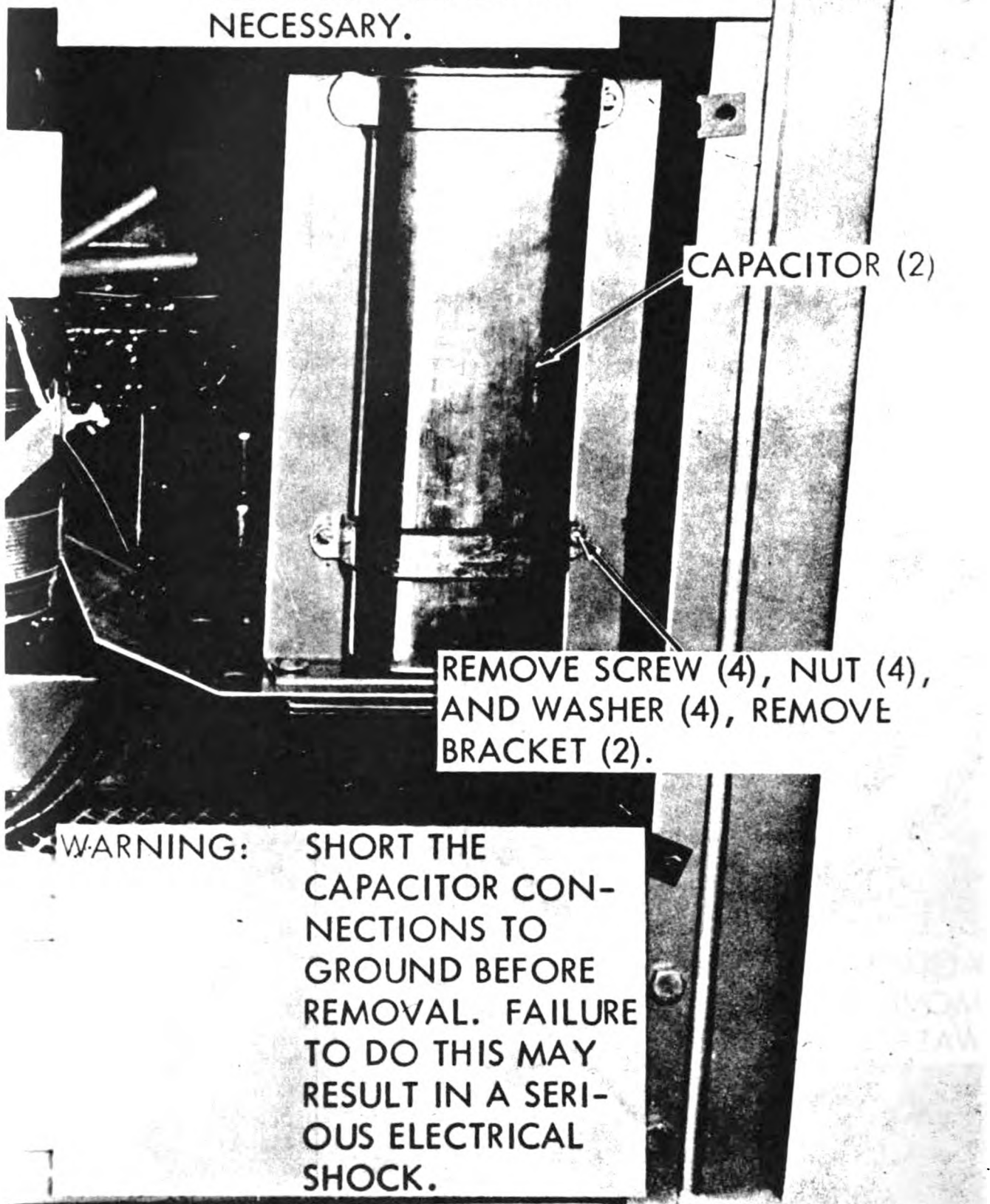
DISCONNECT RESISTOR LEADS AND REMOVE RESISTOR. REMOVE SCREW (2), NUT (2) AND WASHER (2). REMOVE BRACKET.

CAPACITOR

ME 3431-213-14/6-10 (2)

Figure 6-10②—Continued.

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.



CAPACITOR (2)

REMOVE SCREW (4), NUT (4), AND WASHER (4), REMOVE BRACKET (2).

WARNING: SHORT THE CAPACITOR CONNECTIONS TO GROUND BEFORE REMOVAL. FAILURE TO DO THIS MAY RESULT IN A SERIOUS ELECTRICAL SHOCK.

ME 3431-213-14/6-10 ③

Figure 6-10③—Continued.

WARNING: SHORT THE CAPACITOR CONNECTIONS TO GROUND BEFORE REMOVAL. FAILURE TO DO THIS MAY RESULT IN A SERIOUS ELECTRICAL SHOCK.

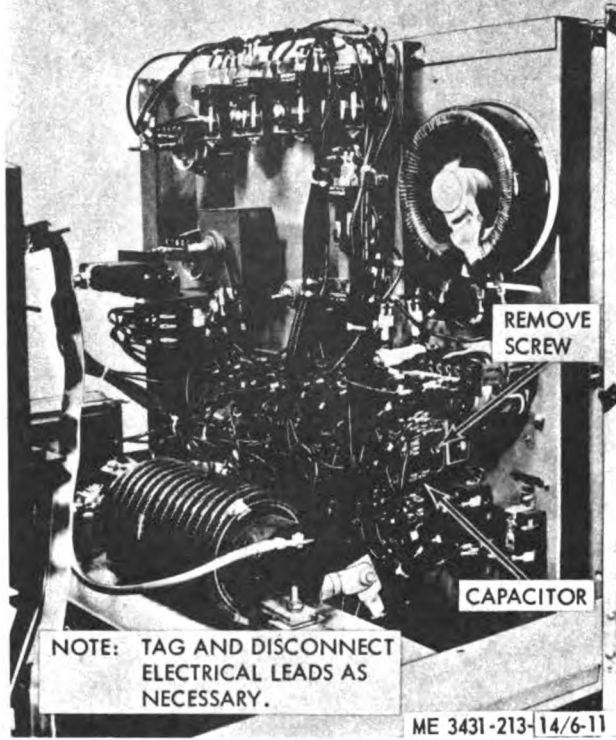


Figure 6-11. Capacitors, removal and installation, Model 2100H2007.

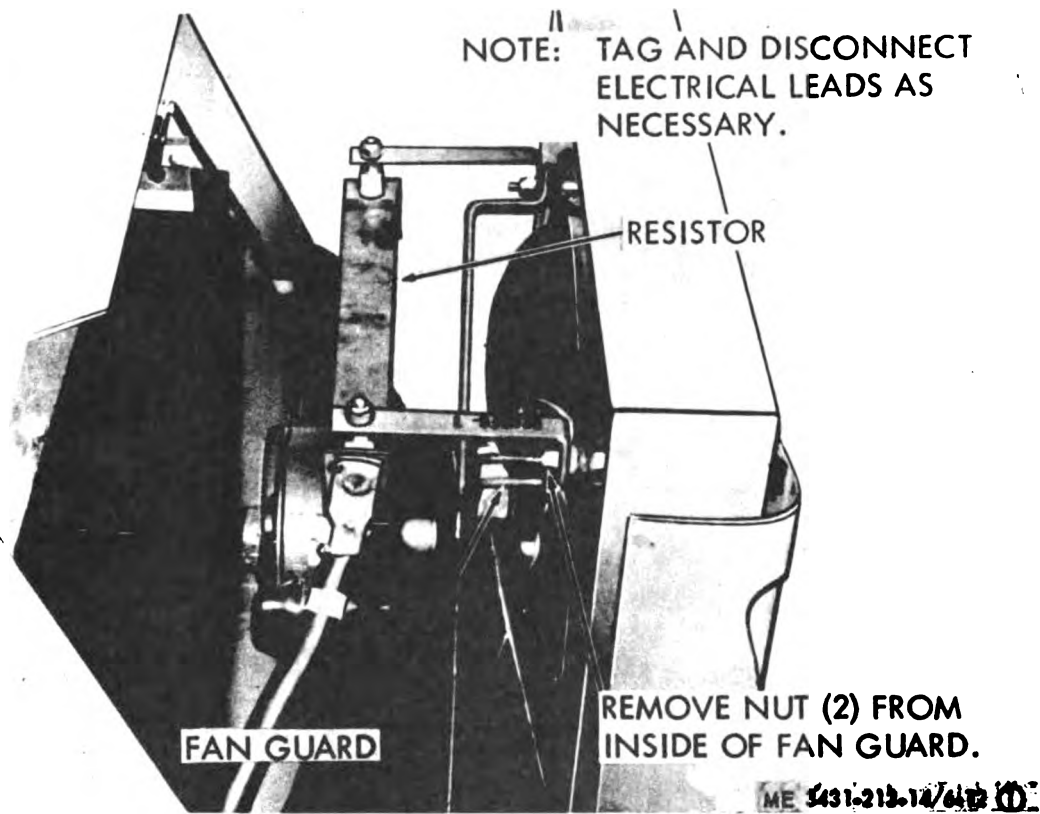
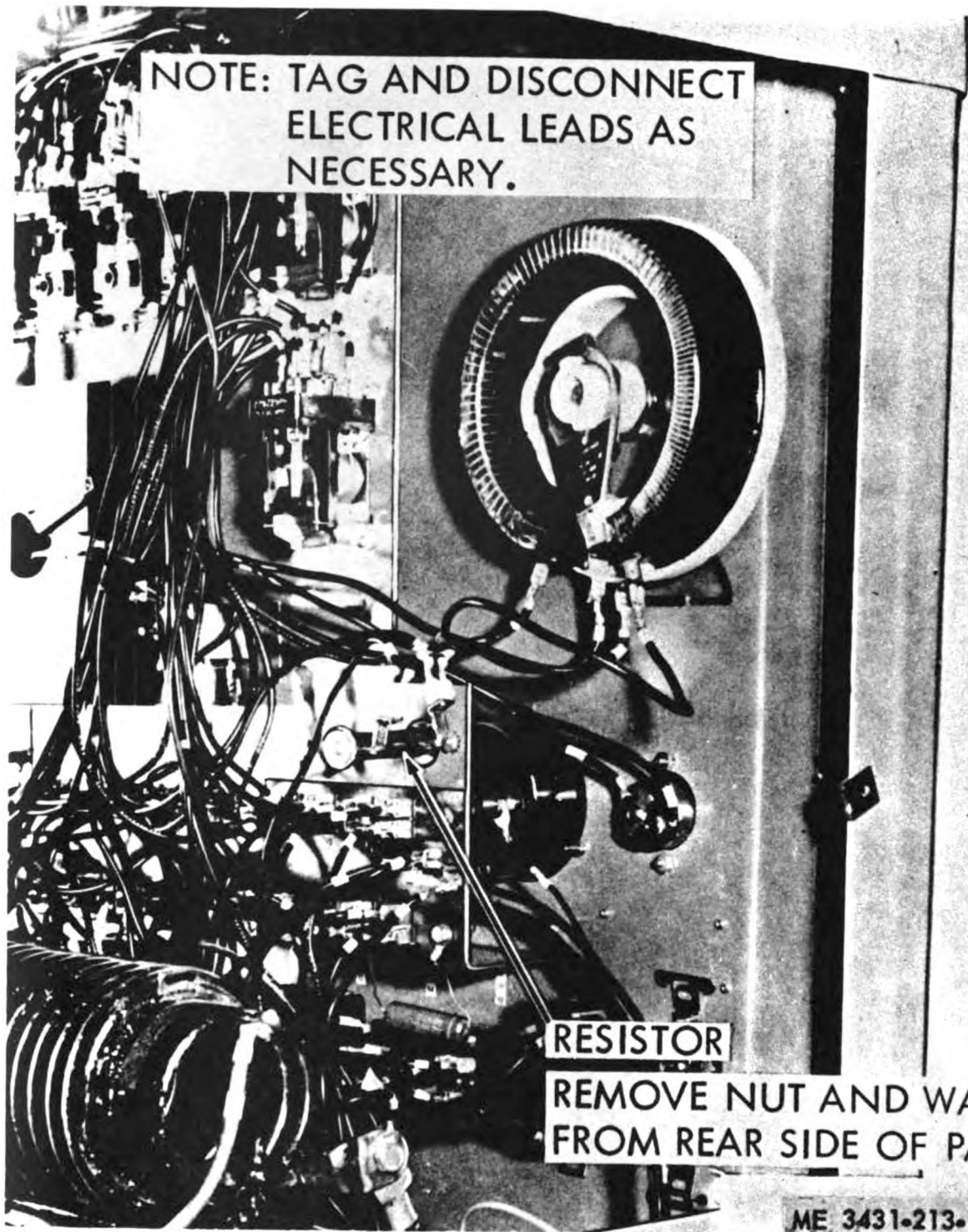


Figure 6-12. Resistors, removal and installation, Model DAR-300HFSG.

NOTE: TAG AND DISCONNECT
ELECTRICAL LEADS AS
NECESSARY.



RESISTOR

REMOVE NUT AND WASHER
FROM REAR SIDE OF PANEL.

ME 3431-213-146-12 (2)

Figure 6-12②—Continued.

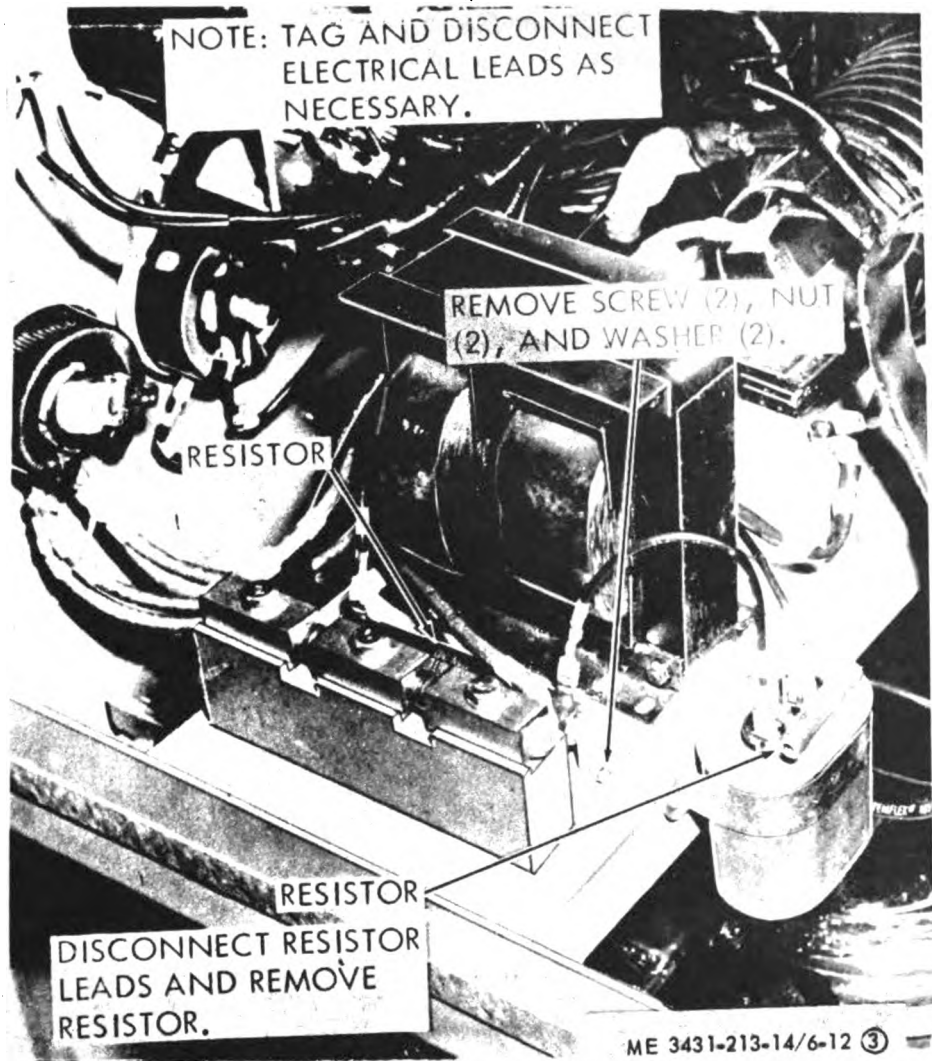


Figure 6-12③—Continued.

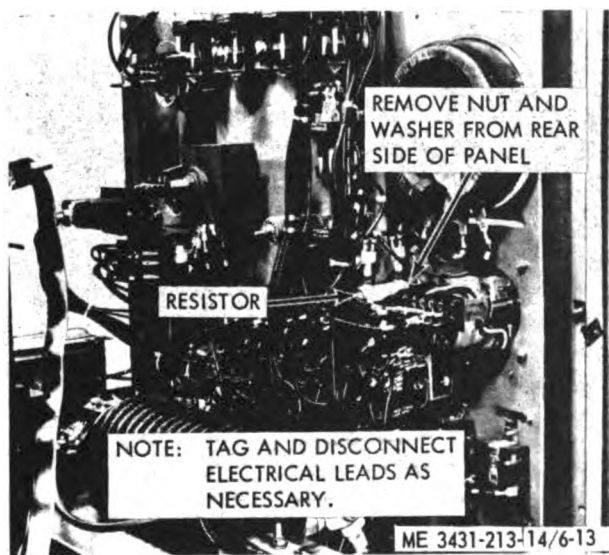


Figure 6-13. Resistors, removal and installation, Model 2100H2007.

Section III. REACTORS, CONTROL RELAYS, AND RELAY PANEL TERMINAL BOARD

6-12. General

The stabilizing reactor assembly acts as a choke to smooth out the dc arc voltage. The saturable reactor assembly controls the amount of current available for both dc and ac welding. Control relays are used to control contactor and time actuation.

6-13. Stabilizing Reactor Assembly

a. Removal.

- (1) Remove the side shrouds (para 3-13).
- (2) Refer to figure 6-14 and remove the stabilizing reactor assembly.

b. *Disassembly.* Refer to figure 6-15 and disassemble the stabilizing reactor assembly.

c. Cleaning and Inspection.

- (1) Clean all parts with a clean, dry cloth.
- (2) Inspect for bare, broken, or corroded wires, defective insulation, evidence of overheating or other damage.
- (3) Replace defective parts as necessary.

d. Test.

(1) Connect an ohmmeter to the coil leads and make a continuity check.

(2) Connect a megohmmeter to the coils, and check the insulation breakdown.

e. *Reassembly.* Refer to figure 6-15 and reassemble the stabilizing reactor assembly.

f. Installation.

(1) Refer to figure 6-14 and install the stabilizing reactor assembly.

(2) Install the side shrouds (para 3-13).

6-14. Saturable Reactor Assembly

a. Removal.

- (1) Remove the side shrouds (para 3-13).
- (2) Refer to figure 6-16 and remove the saturable reactor assembly.

b. *Disassembly.* Refer to figure 6-17 and disassemble the saturable reactor assembly.

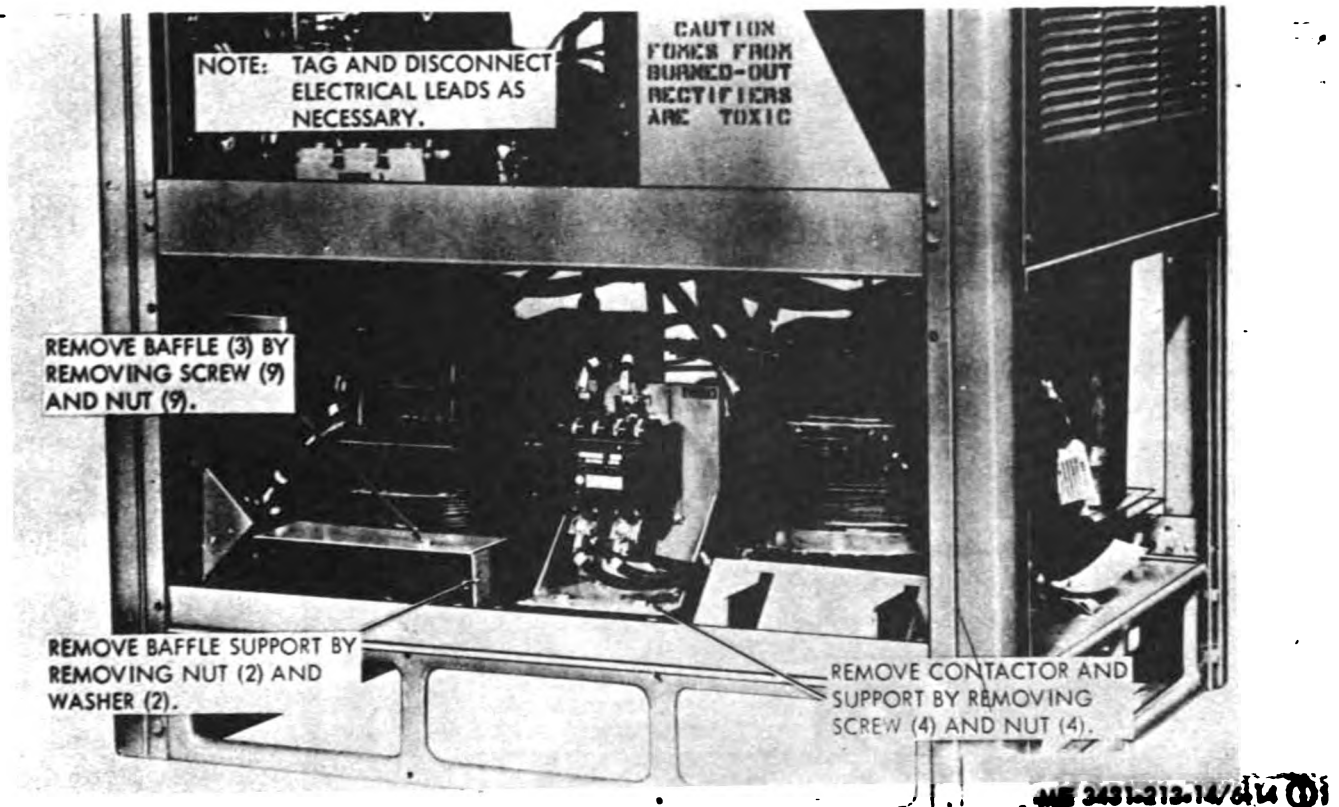


Figure 6-14①. Stabilizing reactor assembly, removal and installation.

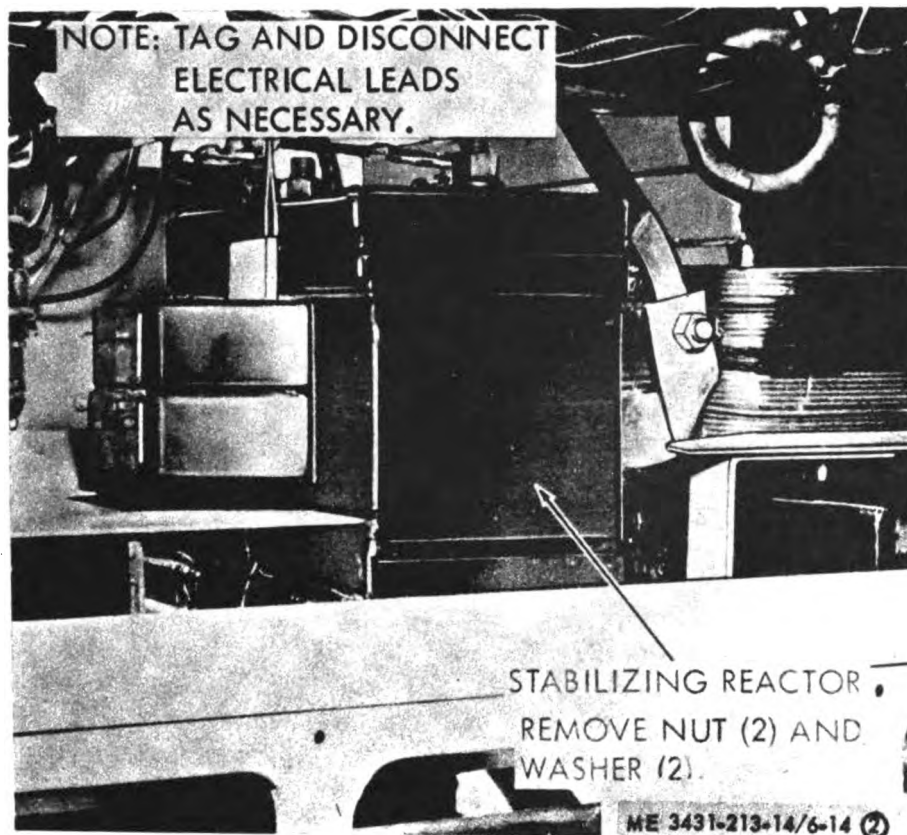


Figure 6-14②—Continued.

c. Cleaning and Inspection.

(1) Clean all parts with a clean, dry cloth.

(2) Inspect for bare, broken, or corroded wires, defective insulation, evidence of overheating, or other damage.

(3) Replace defective parts as necessary.

d. Test.

(1) Connect an ohmmeter to the coil leads and make a continuity check.

(2) Connect a megohmmeter to the coils and check the insulation breakdown.

e. Reassembly. Refer to figure 6-17 and reassemble the saturable reactor assembly.

f. Installation.

(1) Refer to figure 6-16 and install the saturable reactor assembly.

(2) Install the side shrouds (para 3-18).

6-15. Control Relays

a. Removal.

(1) Remove the side shrouds (para 3-18).

(2) Refer to figures 6-7 and 6-8 and remove the six control relays.

b. Cleaning and Inspection.

(1) Clean the control relays with a clean, dry cloth.

(2) Inspect for breaks, cracks, burned or broken contacts, damaged or corroded terminals, or other damage.

(3) Replace a defective control relay as necessary.

c. Installation.

(1) Refer to figures 6-7 and 6-8 and install the six control relays.

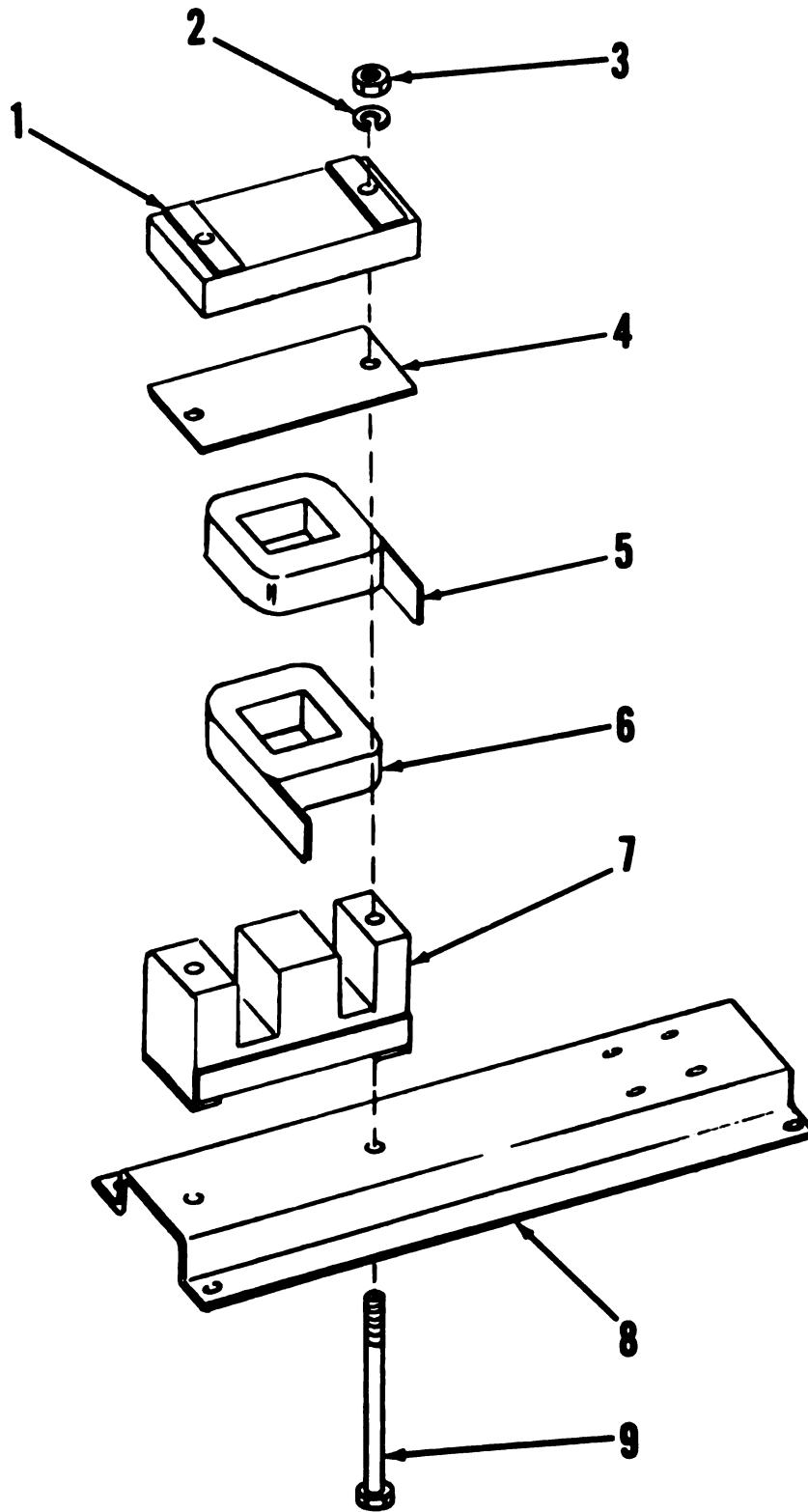
(2) Install the side shrouds (para 3-18).

6-16. Relay Panel Terminal Board

a. Removal.

(1) Remove the side shrouds (para 3-18).

(2) Refer to figures 6-7 and 6-8 and remove the relay panel terminal board.



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- | | | |
|-------------------------------------|------------------|---|
| 1 Yoke | 4 Insulation set | 7 Core |
| 2 Washer, lock, ½ in. (2 rqr) | 5 Coil | 8 Support |
| 3 Nut, plain, hexagon, ½-13 (2 rqr) | 6 Coil | 9 Screw, cap, hexagon head, ½-13 x 7½ in. (2 rqr) |

Figure 6-15. Stabilizing reactor assembly, disassembly and reassembly.

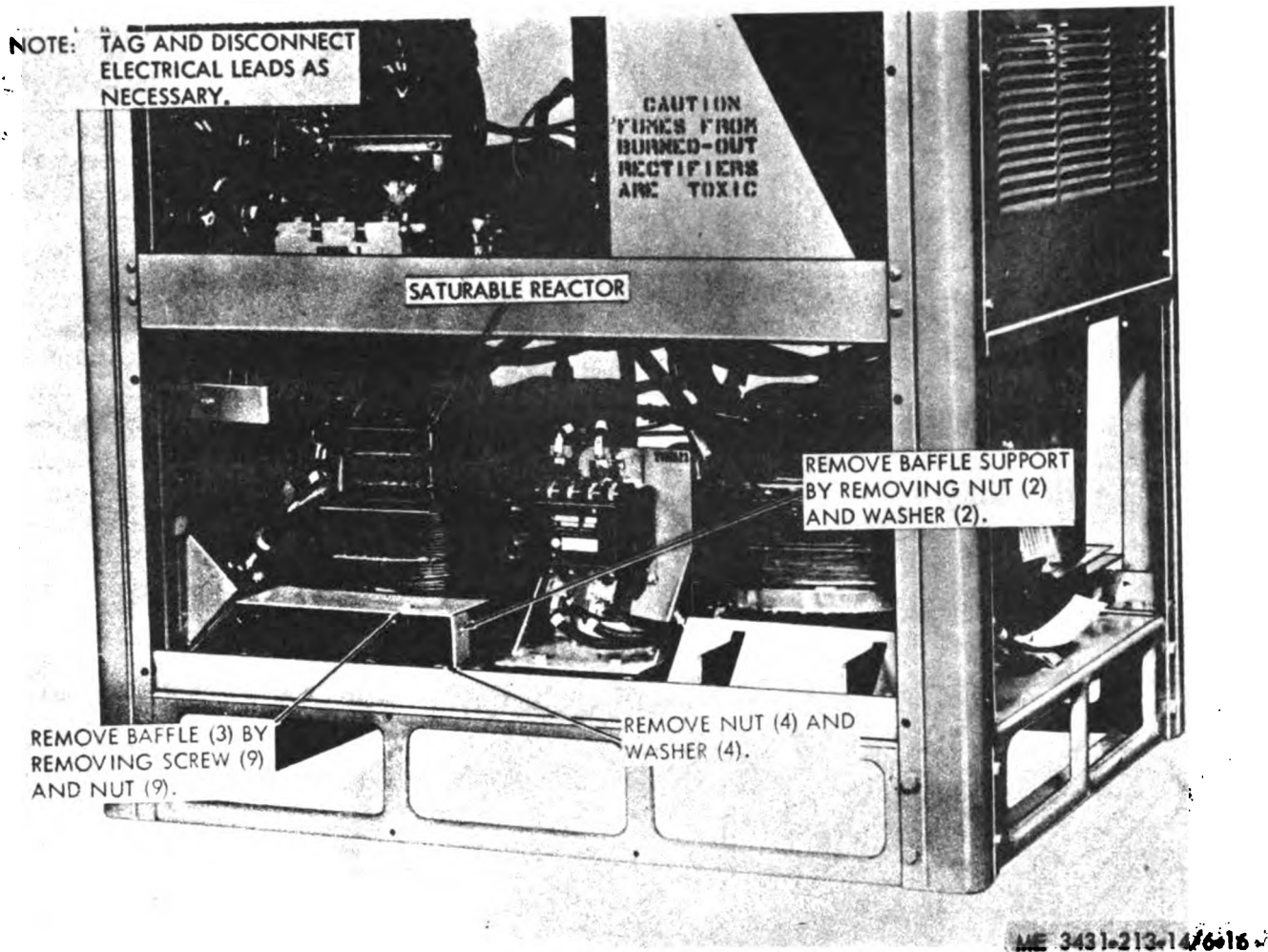


Figure 6-16. Saturable reactor assembly, removal and installation.

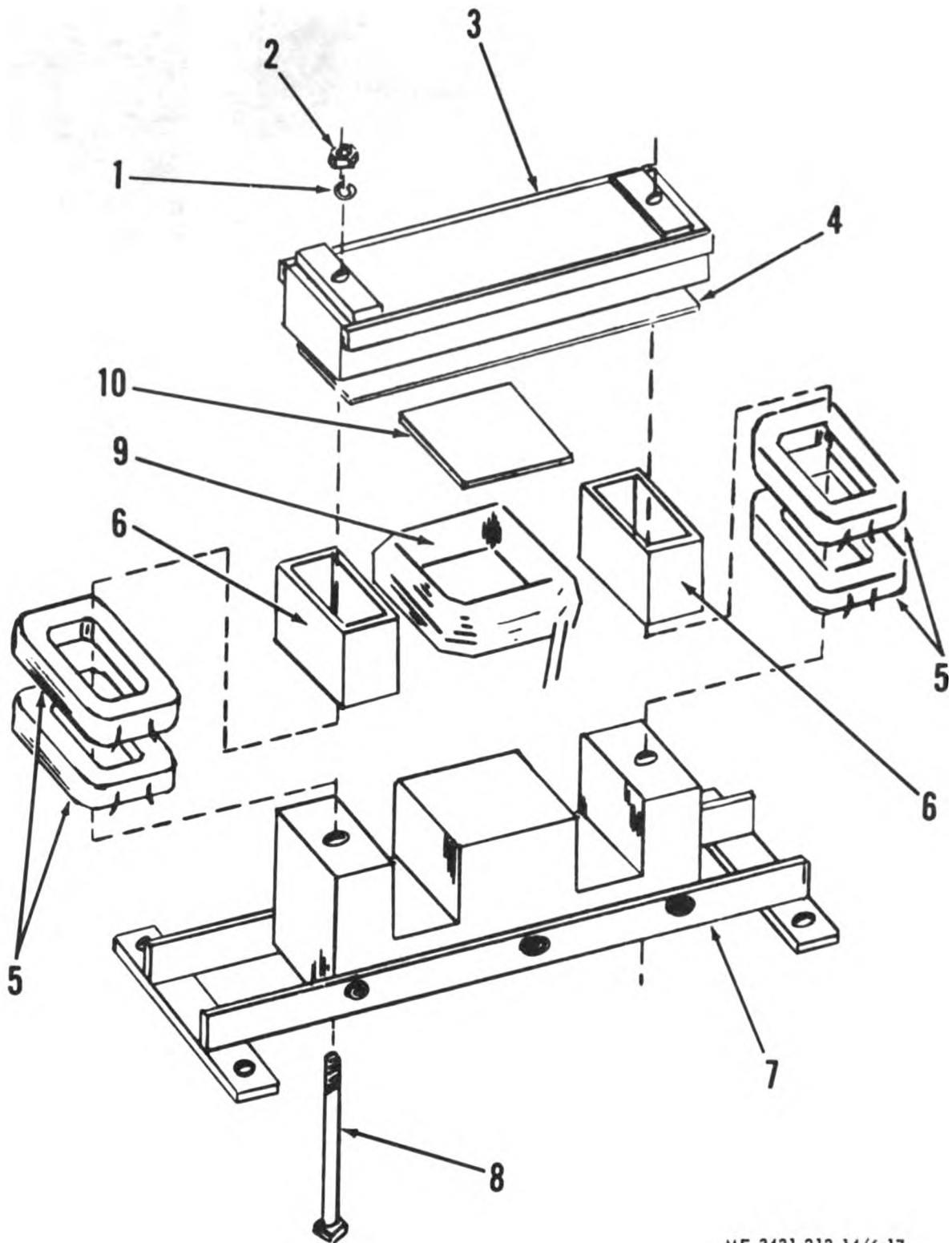
b. Cleaning and Inspection.

- (1) Clean the terminal board with a clean, dry cloth.
- (2) Inspect for cracks, breaks, corroded terminals, or other damage.

- (3) Replace a defective terminal board as necessary.

c. Installation.

- (1) Refer to figures 6-7 and 6-8 and install the relay panel terminal board.
- (2) Install the side shrouds (para 3-13).



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- | | | | |
|---|-----------------------------------|----|---|
| 1 | Washer, lock, ½ in. (2 rqr) | 6 | Insulation set |
| 2 | Nut, plain, hexagon, ½-13 (2 rqr) | 7 | Core and support |
| 3 | Yoke | 8 | Screw, cap, hexagon head, ½-13 x 10 in. (2 rqr) |
| 4 | Shim | 9 | Coil, ac reactor |
| 5 | Coil, dc exciter | 10 | Insulator |

Figure 6-17. Saturable reactor assembly, disassembly and reassembly.

Section IV. CURRENT TRANSFORMER AND SHUNT

6-17. General

The current transformer and shunt are used to reduce measurable current for ac and dc ammeters to practical values.

6-18. Current Transformer

a. Removal.

- (1) Remove the side shrouds (para 3-13).
- (2) Refer to figure 6-18 and remove the current transformer.

b. Cleaning and Inspection.

- (1) Clean the current transformer with a clean, dry cloth.
- (2) Inspect for damaged insulation or wire leads.
- (3) Replace a defective current transformer as necessary.

c. *Test.* Connect an ohmmeter to the current transformer leads and check for continuity.

d. Installation.

- (1) Refer to figure 6-18 and install the current transformer.
- (2) Install the side shrouds (para 3-13).

6-19. Shunt

a. Removal.

- (1) Remove the side shrouds (para 3-13).
- (2) Refer to figure 6-18 and remove the shunt.

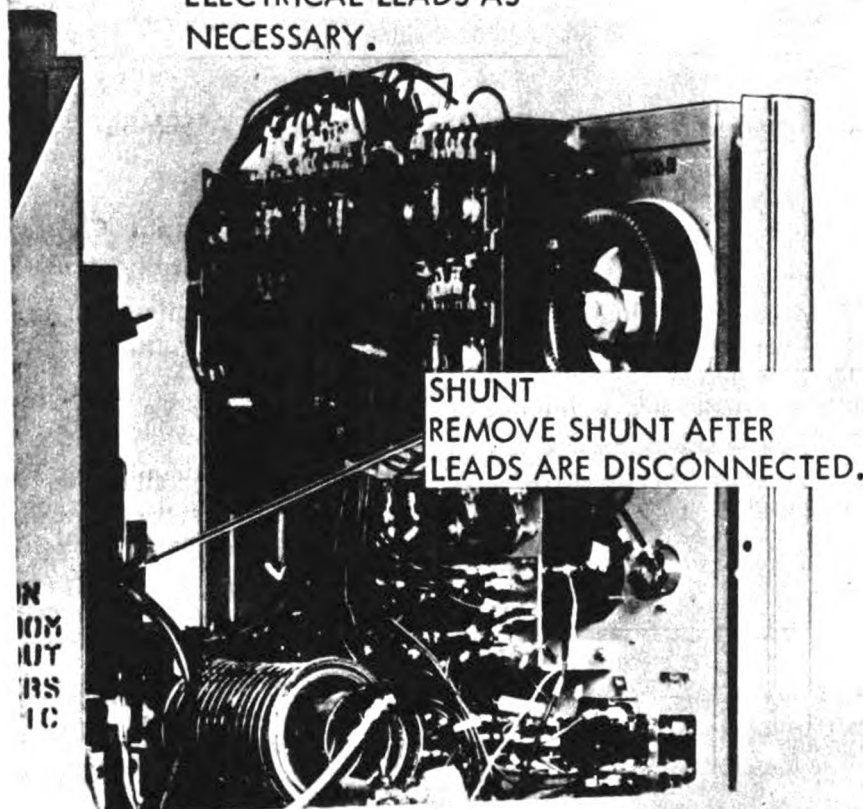
b. Cleaning and Inspection.

- (1) Clean the shunt with an approved cleaning solvent and dry thoroughly.
- (2) Inspect the shunt for damage.
- (3) Replace a defective shunt as necessary.

d. Installation.

- (1) Refer to figure 6-18 and install the shunt.
- (2) Install the side shrouds (para 3-13).

NOTE: TAG AND DISCONNECT ELECTRICAL LEADS AS NECESSARY.



AE. 247.213-14/6-18 ①

Figure 6-18①. Current transformer and shunt, removal and installation.

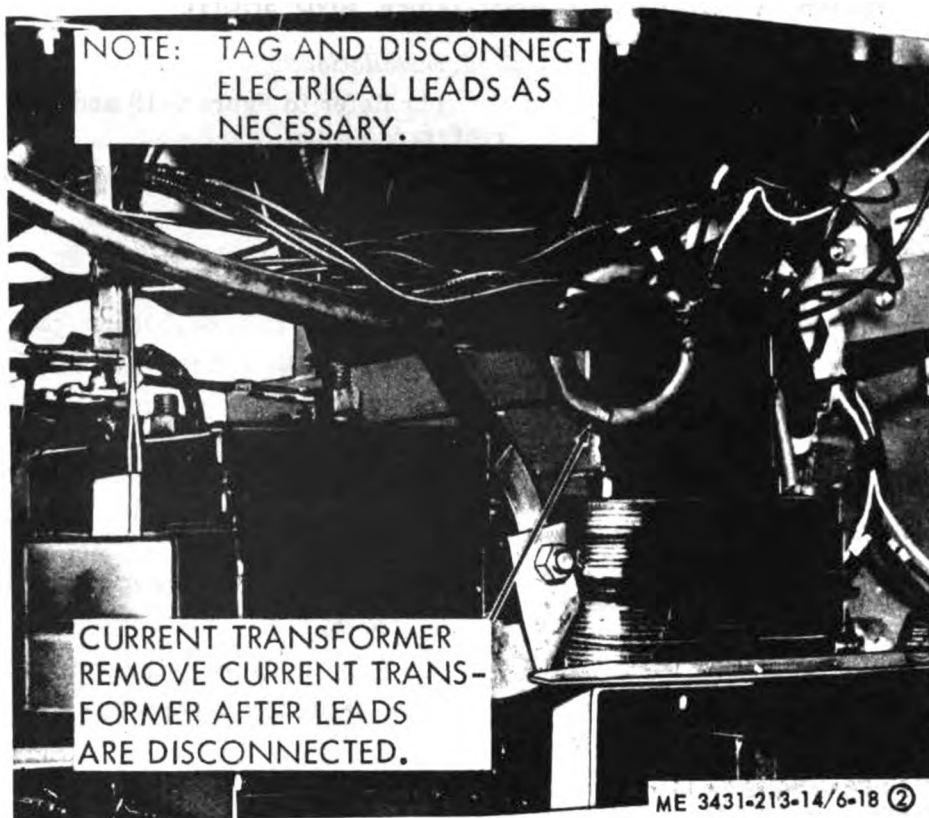


Figure 6-18②—Continued.

Section V. REMOTE OUTPUT CONTROL RHEOSTAT ASSEMBLY AND FOOT SWITCH ASSEMBLY

6-20. General

The remote output control rheostat controls welding current within the selected range when the panel control remote control switch is in remote control position. The foot switch controls activation of the contractor for inert gas welding. An on-off foot switch and a separate remote output control rheostat are furnished with Model DAR-300HFSG. A combination foot on-off switch and remote output control is furnished with Model 2100H2007.

6-21. Remote Output Control Rheostat and Cable Assembly, Model DAR-300HFSG

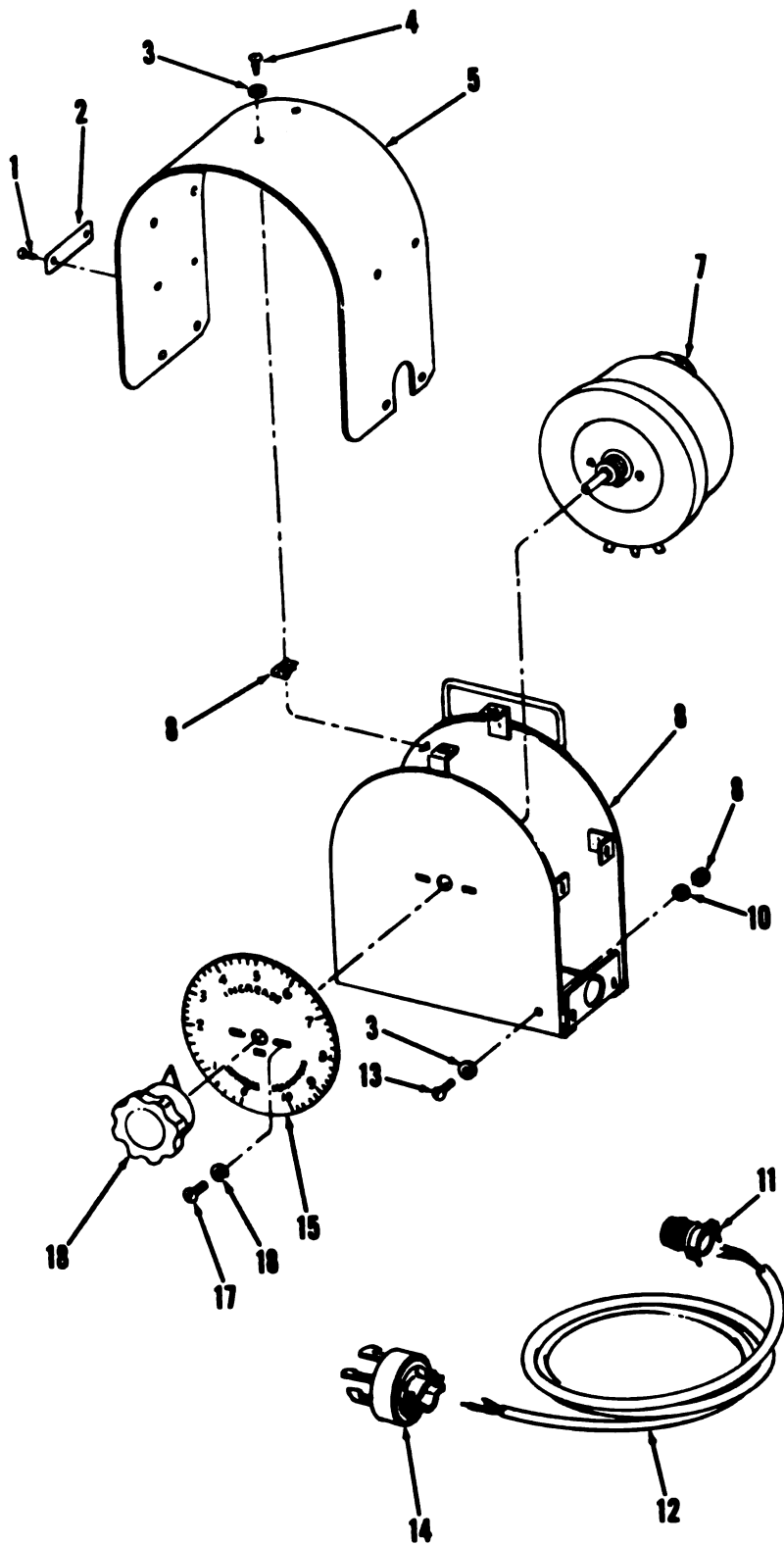
a. *Disassembly.* Refer to figure 6-19 and disassemble the remote output control rheostat and cable assembly.

b. *Cleaning and Inspection.*

(1) Clean all metallic parts with an approved cleaning solvent and dry thoroughly. Clean the remote output control rheostat with a clean dry cloth.

- | | | | |
|---|--|----|---|
| 1 | Screw, self-tapping, thread forming, No. 6 x $\frac{1}{2}$ in. (2 rqr) | 10 | Washer, lock, No. 10 (1 rqr) |
| 2 | Plate, identification | 11 | Adapter |
| 3 | Washer, flat, No. 10 (11 rqr) | 12 | Cable assembly |
| 4 | Screw, self-tapping, thread forming, No. 10 x $\frac{1}{2}$ in. (10 rqr) | 13 | Screw, machine, No. 10-32 x $\frac{1}{2}$ in. (1 rqr) |
| 5 | Shroud | 14 | Connector |
| 6 | Nut, sheet spring, No. 10 (10 rqr) | 15 | Plate, instruction |
| 7 | Rheostat | 16 | Washer, lock, $\frac{1}{4}$ in. (2 rqr) |
| 8 | Housing | 17 | Screw, machine, $\frac{1}{4}$ -20 x $\frac{1}{2}$ in. (1 rqr) |
| 9 | Nut, plain, hexagon, No. 6-32 (1 rqr) | 18 | Knob |

Figure 6-19. Remote output control rheostat and cable assembly, disassembly and reassembly, Model DAR-300HFSG.



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Figure 11-19—Continued.

(2) Inspect for breaks, cracks, corrosion, or other damage.

(3) Replace defective parts as necessary.

c. Test.

(1) Connect an ohmmeter to the two outer terminals of the rheostat and set the meter on RX1 scale. The reading should be 6.2 ohms. If reading is more or less than 6.2 ohms, replace the rheostat.

(2) Connect an ohmmeter to the center terminal and either outside terminal of the rheostat. Set the meter on RX1 scale. Turn the rheostat in either direction until it stops, then turn it in the opposite direction slowly and evenly until it stops again. The indicator on the meter should increase or decrease evenly according to the speed at which the rheostat is turned. If meter indicator does not function as described, replace the rheostat.

Note. Make sure that the ohmmeter used for the above tests is in proper working condition.

d. Reassembly. Refer to figure 6-19 and reassemble the remote output rheostat and cable assembly.

6-22. Foot Switch and Output Control Assembly, Model 2100H2007

a. Disassembly. Refer to figure 6-20 and disassemble the foot switch and output control assembly.

b. Cleaning and Inspection.

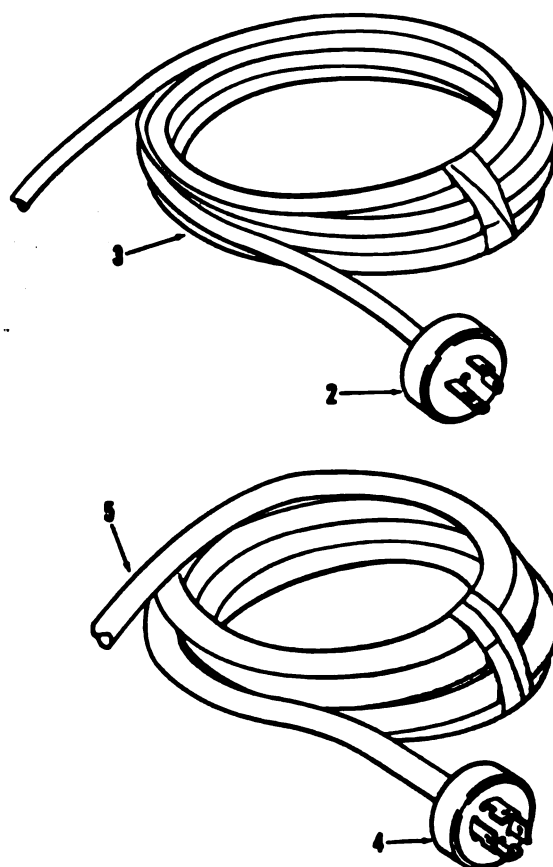
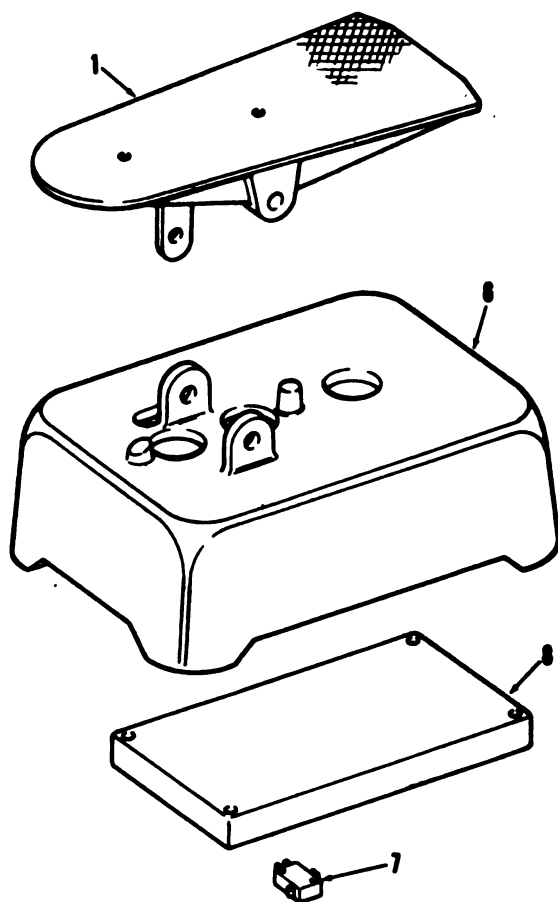
(1) Clean all metallic parts with an approved cleaning solvent and dry thoroughly. Clean the remote output control rheostat and the switch with a clean, dry cloth.

(2) Inspect for breaks, cracks, corrosion, burned or pitted contacts, or other damage.

(3) Replace defective parts as necessary.

c. Test.

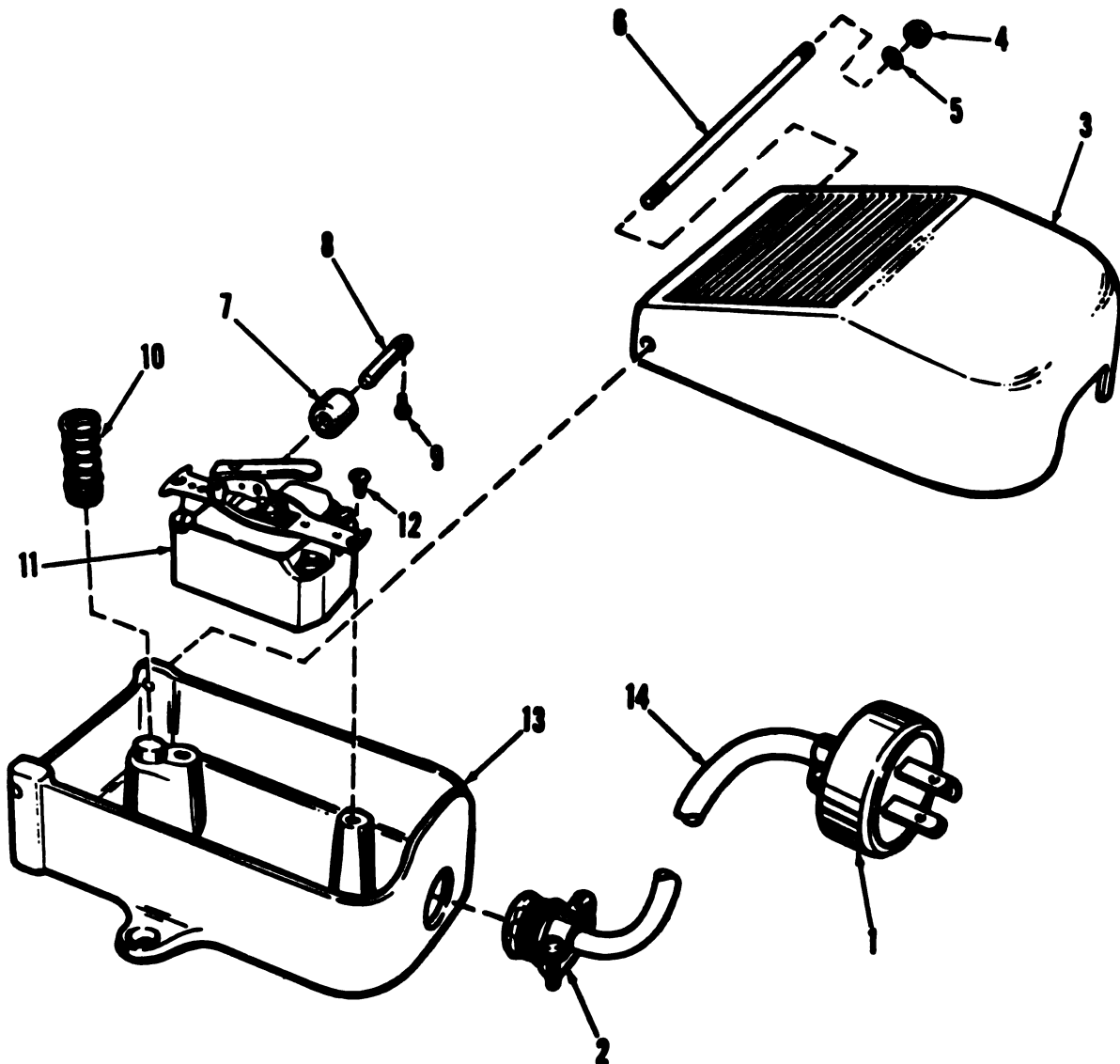
(1) Connect an ohmmeter to the two outer terminals of the rheostat and set the meter on the



ME 3431-213-14/6-20

- | | | | |
|---------|---------|---------|------------|
| 1 Pedal | 3 Cable | 5 Cable | 7 Switch |
| 2 Plug | 4 Plug | 6 Case | 8 Rheostat |

Figure 6-20. Foot switch and output control, disassembly and reassembly, Model 2100H2007.



ME 3431-213-14/6-21

- | | |
|--|--|
| 1 Connector | 8 Stud |
| 2 Adapter | 9 Screw, self-tapping, thread forming, No. 4 x $\frac{1}{8}$ in. (1 rqr) |
| 3 Cover | 10 Spring |
| 4 Nut, cap, hexagon, No. 10-32 (2 rqr) | 11 Switch |
| 5 Washer, lock, No. 10 (2 rqr) | 12 Screw, self-tapping, thread cutting, No. 6-32 x $\frac{1}{2}$ in. (2 rqr) |
| 6 Stud | 13 Base |
| 7 Roll, cam | 14 Cable assembly |

Figure 6-31. Foot switch and cable assembly, disassembly and reassembly.
Model DAB-300HFSG.

RX1 scale. The reading should be 6.2 ohms. If reading is more or less than 6.2 ohms, replace the rheostat.

(2) Connect an ohmmeter to the center terminal and either outside terminal of the rheostat. Set the meter on the RX1 scale. Turn the rheostat in

either direction until it stops, then turn it in the opposite direction slowly and evenly until it stops again. The indication on the meter should increase or decrease evenly according to the speed at which the rheostat is turned. If meter does not indicate as desired, replace the rheostat.

d. *Reassembly.* Refer to figure 6-20 and reassemble the foot switch and output control assembly.

6-23. Foot Switch and Cable Assembly, Model DAR-300HFGS

a. *Disassembly.* Refer to figure 6-21 and disassemble the foot switch and cable assembly.

b. *Cleaning and Inspection.*

(1) Clean all metallic parts with an approved cleaning solvent. Clean the switch with a clean, dry cloth.

(2) Inspect for breaks, cracks, corrosion, burned or pitted contacts, or other damage.

(3) Replace defective parts as necessary.

c. *Reassembly.* Refer to figure 6-21 and reassemble the foot switch and cable assembly.

Section VI. HIGH FREQUENCY INDUCTION COIL, HIGH FREQUENCY TRANSFORMER, CONTROL TRANSFORMER, AND MAIN TRANSFORMER ASSEMBLY

6-24. General

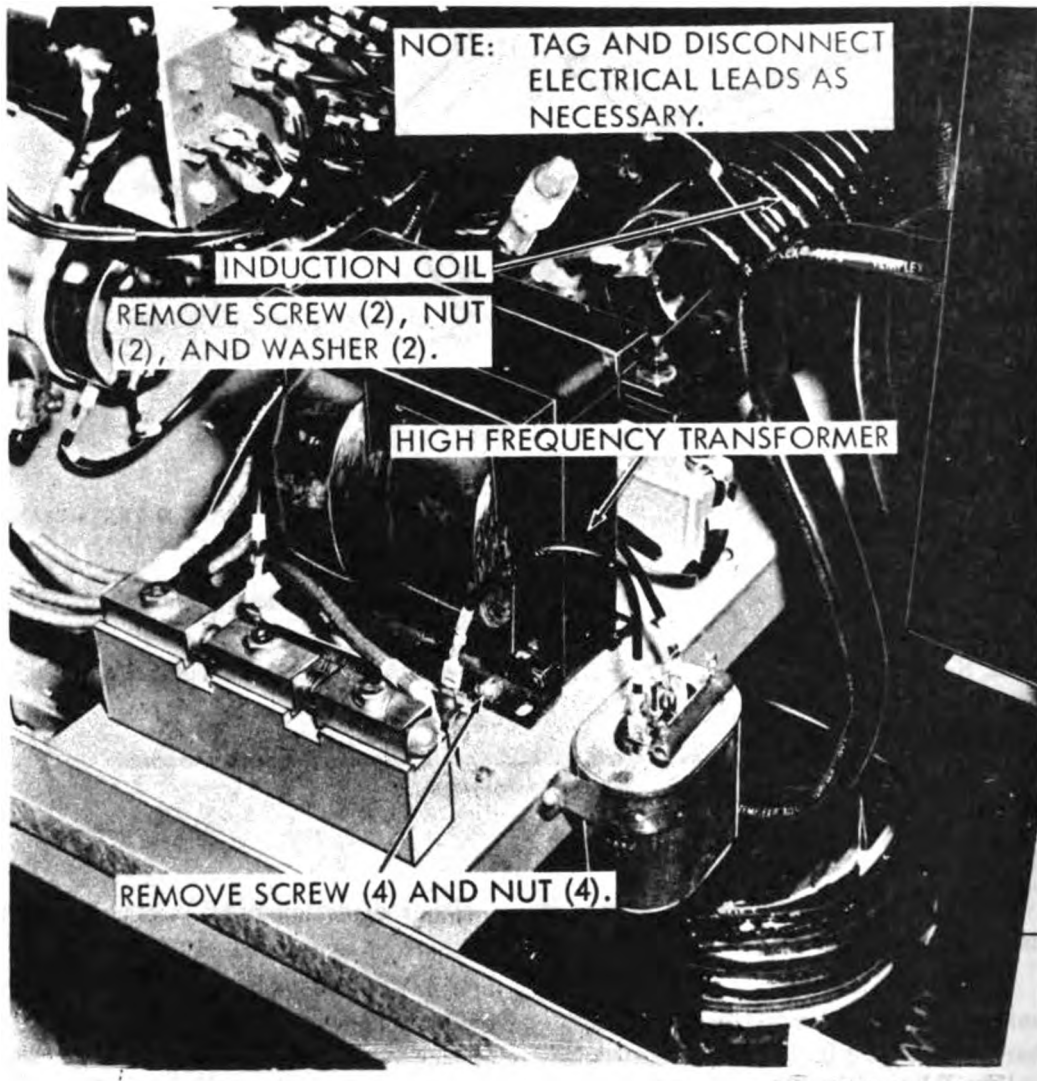
The high frequency induction coil superimposes the high frequency voltage generated by the spark gap assembly onto the output arc voltage. The high frequency transformer provides a voltage for high frequency generation by the spark gap assembly. The control transformer provides 115 and 24 volts ac for operation of the control circuits.

The main transformer assembly provides low voltage welding current. Refer to paragraph 2-3 for high frequency grounding instructions.

6-25. Induction Coil

a. *Removal.*

(1) Remove the side shrouds (para 3-13).



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(2) Refer to figure 6-22 and remove the high frequency induction coil.

b. Cleaning and Inspection.

(1) Clean the induction coil with a clean, dry cloth.

(2) Inspect for breaks, damaged or corroded wire, cut or dried-out insulation, or other damage.

(3) Replace a defective induction coil as necessary.

c. Test. Connect an ohmmeter to the induction coil leads and check for continuity.

d. Installation.

(1) Refer to figure 6-22 and install the induction coil.

(2) Install the side shrouds (para 3-13).

6-26. High Frequency Transformer

a. Removal.

(1) Remove the side shrouds (para 3-13).

(2) Refer to figure 6-22 and remove the high frequency transformer.

b. Cleaning and Inspection.

(1) Clean the high frequency transformer with a clean, dry cloth.

(2) Inspect for breaks, cracks, burned insulation, corrosion, bare wires, or other damage.

(3) Replace a defective transformer as necessary.

c. Test.

(1) Connect a voltmeter to the secondary leads.

(2) Connect a 230-volt power source to the primary winding of the transformer.

(3) The meter should read 3,000 volts. If the indicated reading is not obtained, replace the transformer.

Warning: When making a test on the high frequency transformer, make sure the transformer is on an insulated bench. Do not touch the transformer, or wires leading from it. To do so may

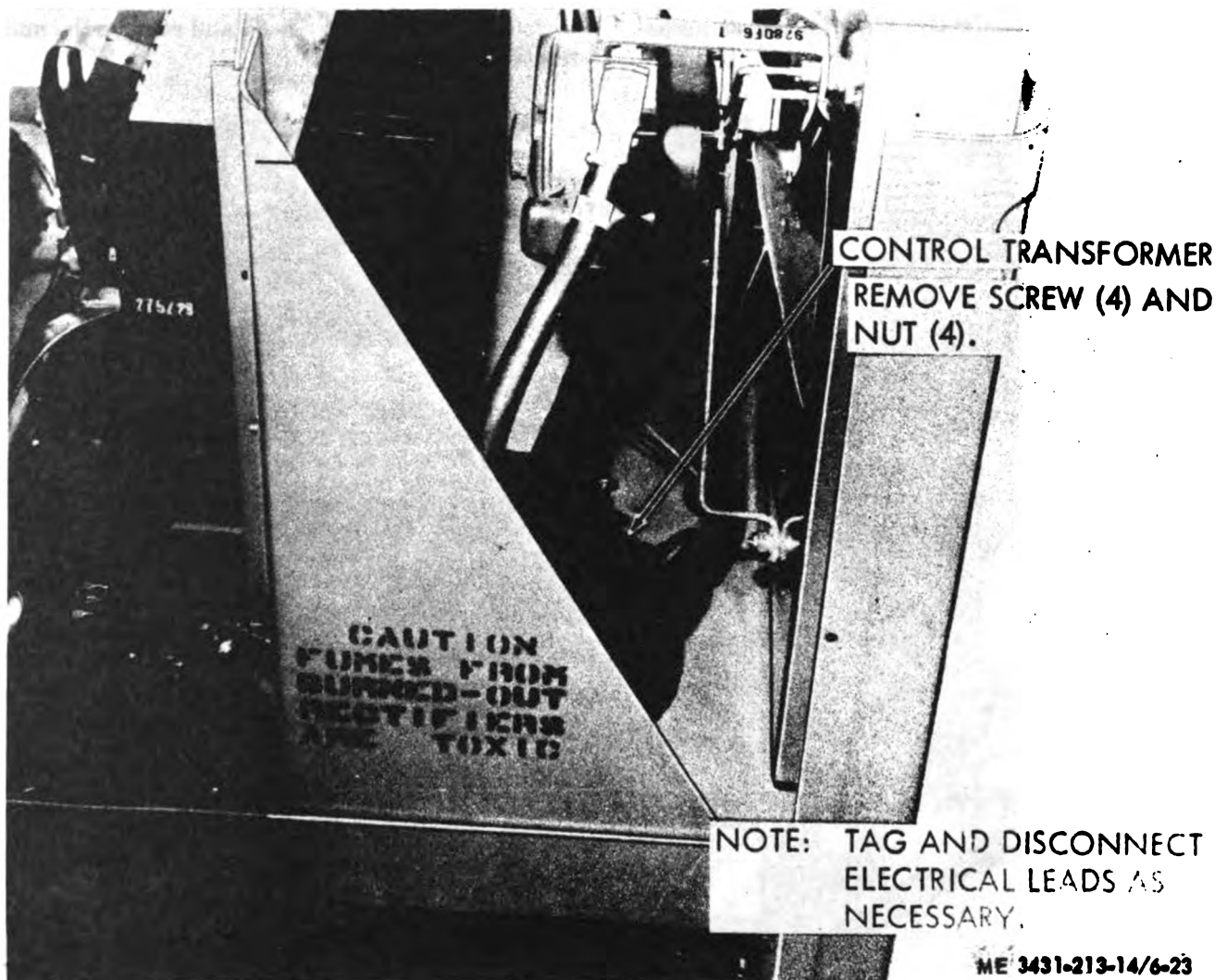


Figure 6-23. Control transformer, removal and installation.

cause a serious electrical shock or possible death to personnel performing the test.

(4) Connect a megohmmeter to the coils and check the insulation breakdown.

d. Installation.

(1) Refer to figure 6-22 and install the high frequency transformer.

(2) Install the side shrouds (para 3-18).

6-27. Control Transformer

a. Removal.

(1) Remove the side shrouds (para 3-18).

(2) Refer to figure 6-23 and remove the control transformer.

b. Cleaning and Inspection.

(1) Clean the control transformer with a clean, dry cloth.

(2) Inspect for cracked, broken, or bent mounting bracket; bare, cut, or corroded wires; and other damage.

(3) Replace a defective transformer as necessary.

c. Test.

(1) Connect a 230-volt power source to leads 1 and 2 or 3 and 4.

(2) Connect a voltmeter to leads 7 and 8. The meter reading should be 24-volts.

(3) Connect the voltmeter to leads 5 and 6. The reading should be 115 volts.

(4) If the meter reading is other than that specified, replace the transformer.

(5) Connect a megohmmeter to the coils and check the insulation breakdown.

d. Installation.

(1) Refer to figure 6-23 and install the control transformer.

(2) Install the side shrouds (para 3-18).

6-28. Main Transformer Assembly

a. Removal.

(1) Remove the side shrouds and bottom rear shroud (para 3-18).

(2) Refer to figure 6-24 and remove the main transformer assembly.

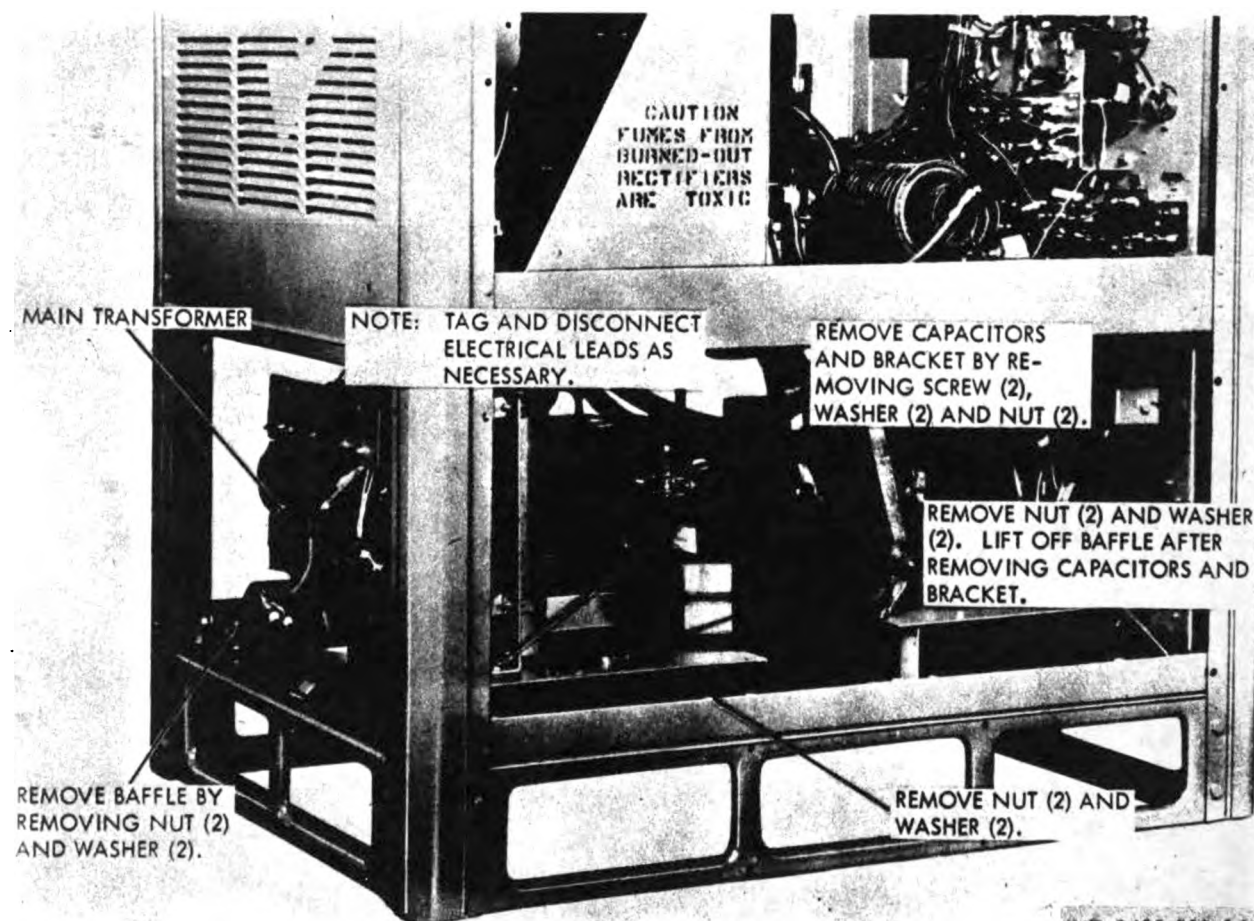


Figure 6-24. Main transformer assembly, removal and installation.

b. *Disassembly.* Refer to figure 6-25 and disassemble the main transformer assembly.

c. *Cleaning and Inspection.*

(1) Clean all parts with a clean, dry cloth.

(2) Inspect all metal parts for cracks, breaks, or bends. Inspect for cut, torn, frayed, or burned insulation. Inspect for cut, broken, or corroded wires.

(3) Replace defective parts as necessary.

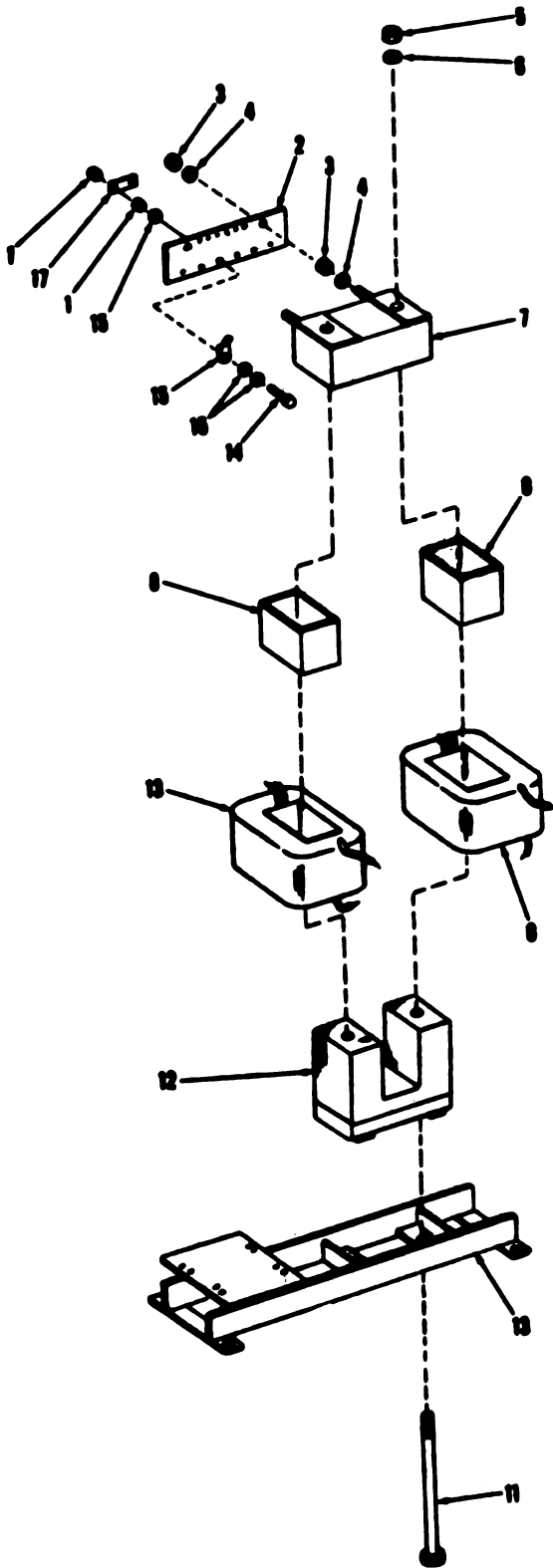
d. *Test.* Connect a megohmmeter to the coils and check the insulation breakdown.

e. *Reassembly.* Refer to figure 6-25 and reassemble the main transformer assembly.

f. *Installation.*

(1) Refer to figure 6-24 and install the main transformer assembly.

(2) Install the side shrouds and bottom rear shroud (para 3-13).



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-
- 1 Nut, plain, hexagon, $\frac{1}{4}$ -20 (18 rqr)
 - 2 Terminal board
 - 3 Nut, plain, hexagon, $\frac{1}{2}$ -20 (4 rqr)
 - 4 Washer, flat, $\frac{1}{2}$ in. (4 rqr)
 - 5 Nut, plain, hexagon, $\frac{1}{2}$ -13 (2 rqr)
 - 6 Washer, lock, $\frac{1}{2}$ in. (2 rqr)
 - 7 Yoke
 - 8 Insulation set
 - 9 Coil
 - 10 Support
 - 11 Screw, cap, hexagon head, $\frac{1}{2}$ -13 x 11 $\frac{1}{2}$ in. (2 rqr)
 - 12 Core
 - 13 Coil
 - 14 Screw, cap, hexagon head, $\frac{1}{4}$ -20 x 1 $\frac{1}{4}$ in. (6 rqr)
 - 15 Washer, flat, $\frac{1}{4}$ in. (18 rqr)
 - 16 Terminal, quick disconnect
 - 17 Link, Terminal connecting

Figure 6-25. Main transformer assembly, disassembly and reassembly.

Section VII. WIRE LEADS

6-29. General

The welding machine wire leads connect components of the welding machine through quick disconnect or screw type terminal connections.

6-30. Wire Leads

a. Cleaning and Inspection.

(1) Clean the wire leads with a clean, dry cloth.

(2) Inspect for cracked, cut, or dried-out insulation. Inspect for bare, cut, corroded, or broken wire leads and for corroded or broken wire leads and for corroded or damaged terminal lugs.

b. Test. To test a wire for continuity, disconnect each end of the wire from the component or com-

ponents to which it is connected. Touch the test probes of multimeter to each end of the wire. If continuity is not indicated, the wire is defective and must be repaired or replaced (c and d below).

c. Repair. Shave the insulation on the wire to expose one-half inch of bare wire at both ends of the break. Twist the bare wire together and solder the connection. Cover the repaired break with electrical tape. Do not leave any bare wire exposed. If a terminal lug is damaged, or breaks off a wire, replace it, using an exact duplicate terminal lug.

d. Replacement. Replace a wire by disconnecting it from the component or components to which it is attached and remove the wire. Install a new wire and connect it to the component or components.

Section VIII. WELDING MACHINE FRAME

6-31. General

The welding machine frame consists of a base, four uprights; two side rails, and two mounting angles. Remove the control panel, cover, side shrouds, and rear shrouds which enclose the frame. Remove air baffles and internally mounted components which are assembled to the frame.

6-32. Welding Machine Frame

a. Disassembly. Disassemble as indicated in figure 6-26.

b. Cleaning and Inspection.

(1) Clean all parts with an approved cleaning solvent and dry thoroughly.

(2) Inspect for breaks, cracks, elongated mounting holds, damaged stud threads, or other damage.

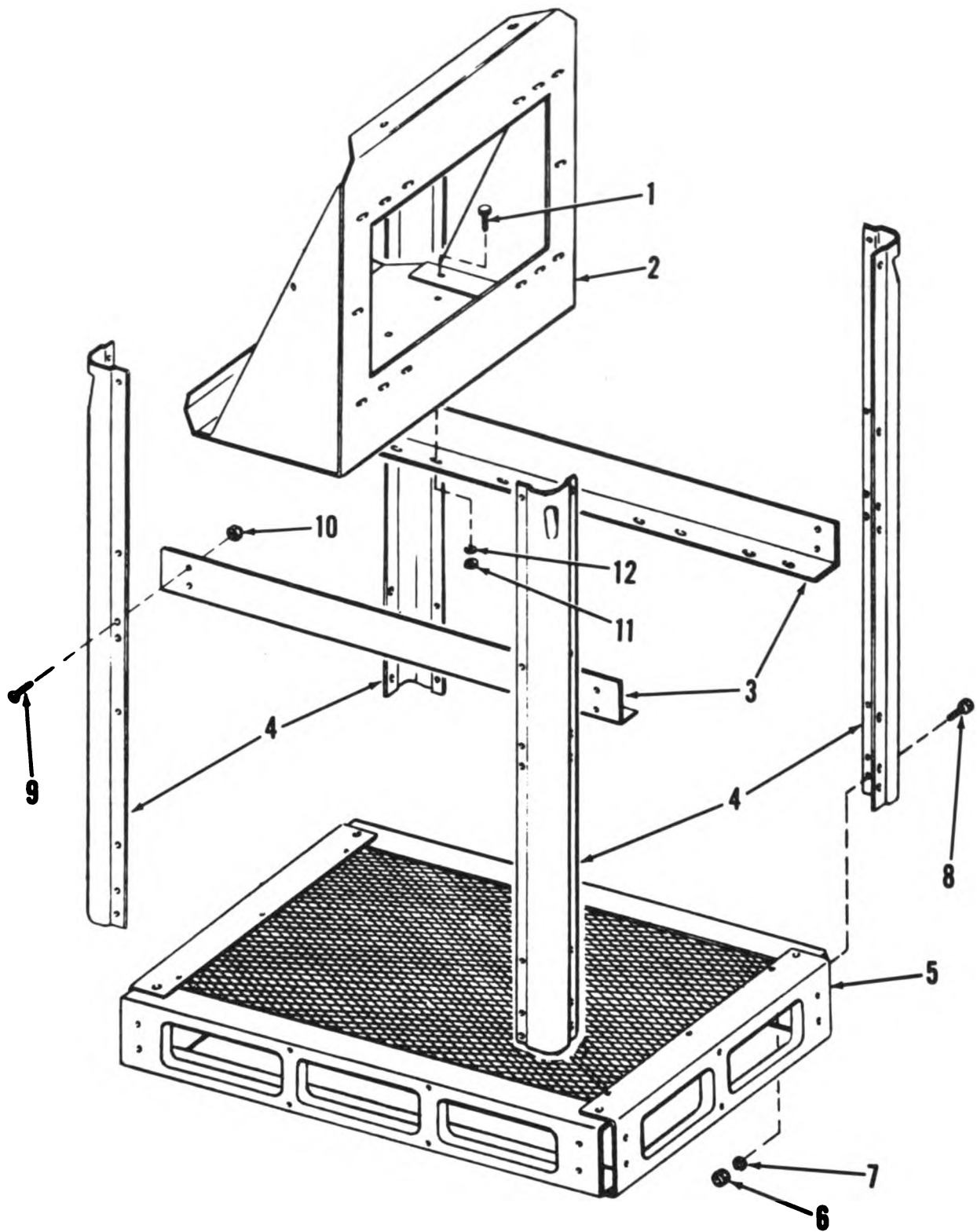
(3) Replace a defective part as necessary.

c. Reassembly. Reassemble as indicated in figure 6-26. Replace air baffles and internally mounted components which are assembled to the frame. Replace the control panel, cover, side shrouds, and rear shrouds which enclose the frame.

- 1 Screw, cap, hexagon head, $\frac{1}{4}$ -20 x $\frac{1}{2}$ in. (4 rqr)
- 2 Baffle, rectifier
- 3 Side rail
- 4 Upright
- 5 Base
- 6 Nut, plain, hexagon, $\frac{3}{16}$ -18 in. (16 rqr)

- 7 Washer, lock, $\frac{5}{16}$ in. (16 rqr)
- 8 Screw, cap, hexagon head, $\frac{3}{16}$ -18 x $\frac{1}{4}$ in. (16 rqr)
- 9 Screw, machine, $\frac{1}{4}$ -20 x $\frac{3}{8}$ in. (8 rqr)
- 10 Nut, self-locking, hexagon, $\frac{1}{4}$ -20 (8 rqr)
- 11 Nut, plain, hexagon, $\frac{1}{4}$ -20 (4 rqr)
- 12 Washer, lock, $\frac{1}{4}$ in. (4 rqr)

Figure 6-26. Machine frame, disassembly and reassembly.



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Figure 6-26.—Continued.

APPENDIX A

REFERENCES

A-1. Fire Protection

TB 5-4200-200-10 **Hand Portable Fire Extinguishers for Army Users**

A-2. Painting

TM 9-213 **Painting Instructions for Field Use**

A-3. Radio Suppression

TM 11-483 **Radio Interference Suppression**

A-4. Maintenance

TM 38-750 **Army Equipment Record Procedures**
TM 5-764 **Electric Motor and Generator Repair**

A-5. Shipment and Limited Storage

TM 38-230 **Preservation, Packaging, and Packing of Military Supplies and Equipment**

APPENDIX B

BASIC ISSUE ITEMS LIST

Section I. INTRODUCTION

B-1. Scope

This appendix lists items which accompany the welding machine or are required for installation, operation, or operator's maintenance.

B-2. General

This Basic Issue Items List is divided into the following sections:

a. Basic Issue Items—Section II. A list of items which accompany the welding machine or are required for the installation, operation, or operator's maintenance.

b. Maintenance and Operating Supplies—Section III. Not applicable.

B-3. Explanation of Columns

The following provides an explanation of columns in the tabular list of basic issue items, section II.

a. Source, Maintenance, and Recoverability Codes (SMR), Column (1).

Note. Common hardware items known to be readily available in Army supply will be assigned Maintenance Codes only. Source Codes, Recoverability Codes, and Quantity Authorized will not be assigned to this category of items.

(1) Source Code, indicates the selection status and source for the listed item. Source codes are:

Code	Explanation
P	Applied to repair parts which are stocked in or supplied from GSA/DSA or Army supply system, and authorized for use at indicated maintenance categories.

(2) Maintenance Code, indicates the lowest category of maintenance authorized to install the listed item. The maintenance level code is:

Code	Explanation
C	Operator/crew

(3) Recoverability codes. Not applicable.

b. Federal Stock Number, Column (2). This column indicates the Federal stock number for the item.

c. Description, Column (3). This column indicates the Federal item name and any additional description of the item required. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses. Repair parts quantities included in kits, sets, and assemblies are shown in front of the repair part name.

d. Unit of Issue, Column (4). This column indicates the unit used as a basis for issue, e.g., ea, pr, ft, yd, etc.

e. Quantity Incorporated in Unit Pack, Column (5). This column indicates the actual quantity contained in the unit pack.

f. Quantity Incorporated in Unit, Column (6). This column indicates the quantity of the item used in the functional group.

g. Quantity Furnished With Equipment, Column (7). This column indicates the quantity of an item furnished with the equipment.

h. Quantity Authorized, Column (8). This column indicates the quantity of an item authorized the operator/crew to have on hand or to obtain as required. As required items are indicated with an asterisk.

i. Illustration, Column (9). This column is divided as follows:

(1) *Figure number, column (9)(a).* Indicates the figure number of the illustration in which the item is shown.

(2) *Item number, column (9)(b).* Indicates the callout number used to reference the item in the illustration.

B-4. Abbreviations

Ea	-----	Each
Ft	-----	Feet
Lg	-----	Length
In	-----	Inch
Dia	-----	Diameter

APPENDIX C

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

C-1. General

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

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

c. Section III—Not applicable.

d. Section IV—Not applicable.

C-2. Explanation of Columns in Section II

a. *Group Number, Column (1)*. The functional group is a numerical group set up on a functional basis. The applicable functional grouping indexes (obtained from TB 750-93-1, Functional Grouping Codes) are listed on the MAC in the appropriate numerical sequence. These indexes are normally set up in accordance with their function and proximity to each other.

b. *Functional Group, Column (2)*. This column contains a brief description of the components of each functional group.

c. *Maintenance Functions, Column (3)*. This column lists the various maintenance functions (A through K) and indicates the lowest maintenance category authorized to perform these functions.

The symbol designations for the various maintenance categories are as follows:

- O—Organizational maintenance
- F—Direct support maintenance
- H—General 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, to paint, and to add fuel, lubricants, cooling agents, and air.
- 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 comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared with the certified standard.
- G—Install: To set up for use in an operational environment such as an emplacement, site, or vehicle.
- H—To replace unserviceable items with serviceable assemblies, subassemblies, or parts.
- I—Repair: To restore an item to serviceable condition. This includes, but is not limited to, inspection, cleaning, preserving, adjusting, replacing, welding, riveting, and strengthening.
- J—Overhaul: To restore an item to a completely serviceable condition as prescribed by maintenance serviceability standards using the Inspect and Repair Only as Necessary (IROAN) technique.
- K—Rebuild: To restore an item to a standard as nearly as possible to original or new condition in appearance, performance and life expectancy. This is accomplished through complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements (items) using original manufacturing tolerances and specifications, and subsequent reassembly of the item.

d. *Tools and Equipment, Column (4)*. Not applicable.

e. *Remarks, Column (5)*. Not applicable.

Section II. Maintenance Allocation Chart

(1) Group No.	(2) Functional group	(3) Maintenance functions											(4) Tools and equipment	(5) Remarks		
		A	B	C	D	E	F	G	H	I	J	K				
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild				
22	MISCELLANEOUS BODY, CHASSIS OR HULL, AND ACCESSORY ITEMS															
2210	Data Plates and Instruction Holders															
	Plate, data (C.O.E.).....	O							F							
	Plate, instruction.....	O							O							
44	WELDING, METALIZING, METAL HEATING AND PLATING EQUIPMENT															
4400	Arc Welder															
	Welding machine, arc: general and inert gas shielded, transformer-rectifier type, ac and dc; 300 amp.....	O	F	O				F	F	F	H					
4405	Frame Support, Housing, Carrier															
	Cover, top.....	O							O							
	Housing, welder.....	O							O							
	Door, rear terminal.....	O							O							
	Base, welder.....	O							F							
4006	Ventilating, Cooling System															
	Blade, fan.....	O							O							
	Motor, fan.....	O							O							
	Guard, fan.....	O							O							
4007	Control Panels, Housing															
	Panels, control and high frequency.....	F							F							
	Switch, control.....	O							O							
	Wiring assembly.....								F	F						
4408	Connecting Devices															
	Receptacle, remote control.....	O							O							
	Terminal board, ground and electrode.....	O							O							
4409	Protective Devices, Electrical															
	Switch, thermostatic.....	O							O							
	Fuses and holders.....	O							O							
4410	Switching, Timing and Speed															
	Switch, control.....	O							O							
	Switch and cable assembly remote control.....								O	F						
	Timer, plug-in.....	O							O							
	Relay, timer.....	F							F							
	Spark gap assembly.....	O			O				O							
	Contactors.....	O							O							
	Valve, solenoid.....	O							O							
	Switch, range.....								F	F						
	Switch, polarity.....	F							F	F	F					
	Capacitor.....		F						F							
4411	Resistor Components															
	Resistor.....		F						F							
	Rheostat, fixed or variable.....	F	F						F							
4412	Transformer Components															
	Transformer, main.....		H						H	H						
	Transformer (230V).....		F						F							
	Coil, Inductance.....		F						F							
	Transformer, control.....		F						F							
	Capacitor, power.....		F						F							
	Coil assembly.....		F						F							
4413	Rectifier Components															
	Rectifier assembly.....	F							F							
	Rectifier, control.....	F							F							

APPENDIX D

ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS

Section I. INTRODUCTION

D-1. Scope

This appendix lists repair parts, special tools, test and support equipment required for the performance of organizational, direct support and general support maintenance of the welding machine.

D-2. General

a. The repair parts list is arranged as follows:

(1) Individual parts and major assemblies are listed alphabetically by item name within the numbered functional groups.

(2) Assembly components and subassemblies are indented and listed alphabetically by item name under major assemblies.

b. This Repair Parts and Special Tools List is divided into the following sections:

(1) *Prescribed Load Allowance (PLA)—Section II.* A consolidated listing of repair parts quantitatively allocated for initial stockage at the organizational level. *This is a mandatory minimum stockage allowance.*

(2) *Repair Parts—Section III.* A list of repair parts authorized for the performance of maintenance at the organizational level.

(3) *Special Tools, Test and Support Equipment—Section IV.* Not applicable.

(4) *Repair Parts—Section V.* A list of repair parts authorized for the performance of maintenance at the direct support and general support level.

(5) *Special Tools, Test and Support Equipment—Section VI.* Not applicable.

(6) *Federal Stock Number and Reference Number Index—Section VII.* A list of Federal Stock numbers followed by reference numbers, appearing in all the listings, in ascending alphanumeric sequence cross-referenced to index number.

D-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists.

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

Note. Common hardware items known to be readily available in Army supply channels will be assigned Maintenance codes only. Source codes, Recoverability codes, and Maintenance Allowances will not be assigned to this category.

(1) *Source Code.* Indicates the selection status and source for the listed item. Source codes used are:

Code	Explanation
P	Applied to repair parts which are stocked in or supplied from DSA/GSA or Army supply system, and authorized for use at indicated categories.
P2	Applied to repair parts 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.
M	Applied to repair parts which are not procured or stocked but are to be manufactured at indicated maintenance categories.
A	Applied to assemblies which are not procured or stocked as such but are made up of two or more units, each of which carry individual stock numbers and descriptions and are procured and stocked and can be assembled by units at indicated maintenance categories.
X	Applied to parts and assemblies which are not procured or stocked; the mortality of which normally is below that of the applicable end item; and the failure of which should result in retirement of the end item from the supply system.
X1	Applied to repair parts which are not procured or stocked, the requirement for which will be supplied by use of the next higher assembly or component.
X2	Applied to repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain them through cannibalization; if not obtainable through cannibalization, such repair parts will

Code	Explanation
	be requisitioned with supporting justification through normal supply channels.
C	Applied to repair parts authorized for local procurement. If not obtainable from local procurement, such repair parts will be requisitioned through normal supply channels with a supporting statement of nonavailability from local procurement.
G	Applied to major assemblies that are procured with PEMA (Procurement Equipment Missile Army) funds for initial issue only to be used as exchange assemblies at DSU and GSU maintenance level. These assemblies will not be stocked above DSU and GSU level or returned to depot level.

(2) *Maintenance Code.* Indicates the lowest category of maintenance authorized to install the listed item. The maintenance codes are:

Code	Explanation
O	Organizational maintenance
F	Direct support maintenance
H	General 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	Explanation
R	Applied to repair parts and assemblies which are economically repairable at DSU and GSU activities and which are normally furnished by supply on an exchange basis.
S	Applied to repair parts and assemblies which are economically repairable 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 repairable, they will be evacuated to a depot for evaluation and analysis before final disposition.
T	Applied to high dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts are normally repaired or overhauled at depot maintenance activities.
U	Applied to repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value reusable casings or castings.

(4) This column also lists, below the SMR code, an index number for each item in ascending numerical sequence, which is used to locate items in the publication when the Federal stock number and/or reference number is known.

b. Federal Stock Number. Indicates the Federal stock number for the item.

c. Description. Indicates the Federal item name and any additional description of the item required. A part number or other reference number is preceded by the applicable five-digit Federal supply code for manufacturers in parentheses. Re-

pair parts quantities included in the kits, sets, and assemblies are shown in front of the repair part name.

d. Unit of Issue. Indicates the unit used as a basis for issue, e.g., ea, pr, ft, yd, etc.

e. Quantity Incorporated in Unit Pack. Indicates the actual quantity contained in the unit pack.

f. Quantity Incorporated in Unit. Indicates the quantity of the item used in the functional group.

g. Fifteen-Day Organizational Maintenance Allowances.

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn opposite the first appearance of each item is the total quantity of items authorized for the number of equipments supported. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.

(3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 12; for 140 equipments multiply 12 by 1.40 or 16.80 rounded off to 17 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to U. S. Army Mobility Equipment Command for exception or revision to the allowance list. Revisions to the range of items authorized will be made by this Command based upon engineering experience, demand data, or TAERS information.

h. Thirty-Day DS/GS Maintenance Allowances.

(1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the

total quantity of items authorized for the number of equipments supported. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowances for DS/GS levels of maintenance will represent initial stockage for 30-day period for the number of equipments supported.

(3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.

i. *One-Year Allowances Per 100 Equipments/Contingency Planning Purposes.* Indicates opposite the first appearance of each item the total quantity required for distribution and contingency planning purposes. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one year.

j. *Illustration.*

(1) *Figure number.* Indicates the figure number of the illustration in which the item is shown.

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

D-4. Special Information

a. Identification of the usable on codes of this publication are:

Code	Used on
A	Model DAR-300HFSG
B	Model 2100H2007 (These parts apply to machines in serial number range G32776 through G32880 and G33002 and up).

Items not coded are used on both models.

b. Repair parts mortality has been based on 1,500 hours of operation per year.

c. Parts which require manufacture or assembly at a category higher than that authorized for installation will indicate in the source column the higher category.

D-5. How to Locate Repair Parts

a. When Federal Stock Number or reference number is unknown:

(1) *First.* Using the table of contents, determine the functional group or subgroup within which the repair part belongs. This will refer to a page in the parts listing.

(2) *Second.* The illustration column of the page refers to a figure number.

(3) *Third.* Locate the figure and identify the repair parts, noting the item number.

(4) *Fourth.* Refer back to the page of the parts listing. Find the item number in the illustration column that corresponds with the figure number.

b. When Federal Stock Number or reference number is known:

(1) *First.* Using the Index of Federal Stock Numbers and Reference Numbers, find the pertinent Federal stock number or reference number. This index is in ascending alphanumeric sequence cross-referenced to an index number.

(2) *Second.* Using the Repair Part Listing, find the index number referenced in the Index of Federal Stock Numbers and Reference Numbers.

D-6. Abbreviations

ac	-----	alternating current
awg	-----	American Wire Gauge
dc	-----	direct current
id	-----	inside diameter
lg	-----	long
mtg	-----	mounting
od	-----	outside diameter
thd	-----	thread

D-7. Federal Supply Codes for Manufacturers

Code	Manufacturers
01002	----- General Electric Co. Capacitor Dept.
03516	----- General Electric Co. Meter Dept.
04009	----- Arrow-Hart & Hegeman Electric Co.
05402	----- Controls Co. of America
08285	----- Little Products Co.
08288	----- Military Supply Stands
08931	----- General Electric Co. Medium Transformer Dept.
09922	----- Burndy Corp.
12584	----- Smith AD Corp. Clark Control Div.
14403	----- Automatic Switch Co.
14655	----- Cornell-Dubilier Electric Corp.
27191	----- Cutler-Hammer, Inc. Power Distribution and Control Div.
27315	----- Harnischfeger Corp.
30703	----- Industrial Timer Corp.
37942	----- P. R. Mallory & Co. Inc.
39595	----- Meier Electric & Machine Co., Inc.
44655	----- Ohmite Mfg. Co.
59730	----- The Thomas & Betts Co.
70411	----- Anderson Brass Co.
70485	----- Atlantic India Rubber Works, Inc.

Code **Manufacturers**
 70611 ----- Ark-Les Switch Corp.
 71400 ----- Bussman Mfg. Division of
 McGraw-Edison Co.
 71785 ----- Cinch Mfg. Co. and Howard B. Jones Div.
 72765 ----- Drake Mfg. Co.
 72962 ----- Elastic Stop Nut Corp. of America
 73506 ----- Bradley Semiconductor Corp.
 74545 ----- Harvey Hubbell, Inc.
 77342 ----- Potter & Brumfield Div. of American
 Machine & Foundry Co.
 78189 ----- Shakeproof Div. of Illinois Tool Works
 Inc.

Code **Manufacturers**
 78553 ----- Tinnerman Products, Inc.
 81091 ----- Pass & Seymour, Inc.
 81093 ----- Syntron Co.
 81348 ----- Federal Specifications Promulgated By
 Standardizations Div. Directorate of
 Logistic Services DSA
 81483 ----- International Rectifier Corp.
 89110 ----- Amp, Inc.
 98906 ----- Military Standards
 97918 ----- Linemaster Switch Corp.
 99017 ----- CA Plugs Division Protective Closures
 Co., Inc.

Section II. Prescribed Load Allowance

(1) Federal stock number	(2) Description	(3) 15-day org maint. alw			
		(A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100
	GROUP 44—WELDING				
	4405—FRAME SUPPORT, HOUSING, CARRIER, ETC				
5325-012-4374	GROMMET, PLASTIC: rectifier baffle (27315) 287Z31D15				2
5325-012-4376	GROMMET, PLASTIC: rectifier baffle (27315) 287Z31D16				2
	4408—CONNECTING DEVICES				
5935-012-4417	CONNECTOR, PLUG, ELECTRICAL: switch cable (81091) 7251	(A)			2
	4409—PROTECTIVE DEVICES, ELECTRICAL				
5920-280-9312	FUSE, PLUG: control panel (71400) S5-6/10				2
	4410—SWITCHING, TIMING, AND SPEED CONTROL				
3431-012-4362	SPARK GAP ASSEMBLY (27315) 9579F81-1	(A)	2	2	2
4810-012-4355	VALVE, SOLENOID: water and gas control (05402) 70291-063	(A)			2

(1) S&P CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS- TRATION	
						(a)	(b)	(c)	(d)	(a)	(b)
						1-5	6-20	21-50	51-100	FIG. NO.	ITEM NO.
00001		SECTION 111 - REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE									
00001A		GROUP 22 - BODY, CHASSIS OR HULL, AND ACCESSORY ITEMS									
00002		2210 - DATA PLATES									
X20 00003		PLATE, IDENTIFICATION: AXILLARY AC POWER (27315) 232H277	A	EA	1					D3	62
X20 00004		PLATE, IDENTIFICATION: AXILLARY AC POWER (27315) 232H73	B	EA	1					D4	18
X20 00006		PLATE, IDENTIFICATION: GAS AND WATER (27315) 232F110	A	EA	1					D3	65
X20 00007		PLATE, IDENTIFICATION: GAS AND WATER (27315) 232F289	B	EA	1					D4	19
X20 00009		PLATE, IDENTIFICATION: GROUND AND ELECTRODE (27315) 232H275	A	EA	1					D3	50
X20 00010		PLATE, IDENTIFICATION: GROUND AND ELECTRODE (27315) 232H75	B	EA	1					D4	16
X20 00011		PLATE, IDENTIFICATION, HARNISCHFEGER CORP (27315) 232E113	A	EA	1					D3	2
X20 00012		PLATE, IDENTIFICATION, HARNISCHFEGER CORP (27315) 232E143	B	EA	1					D4	1
X20 00013		PLATE, IDENTIFICATION: OUTPUT VOLTAGE SIGNAL (27315) 232H334	A	EA	1					D3	11
X20 00014		PLATE, IDENTIFICATION: POST-PURGE (27315) 232H333	A	EA	1					D3	5
X20 00016		PLATE, IDENTIFICATION: PRE-PURGE (27315) 232H77	B	EA	1					D4	25
X20 00017		PLATE, IDENTIFICATION: RANGE SWITCH (27315) 232F217	A	EA	1					D3	63
X20 00018		PLATE, IDENTIFICATION: RANGE SWITCH (27315) 232F290	B	EA	1					D4	21
X20 00019		PLATE, IDENTIFICATION: REMOTE CONTACTOR CONTROL (27315) 232H331	A	EA	1					D3	12
X20 00020		PLATE, IDENTIFICATION: REMOTE RESTART (27315) 232H96	A	EA	1					D8	2
X20 00021		PLATE, IDENTIFICATION: SELECTOR SWITCH (27315) 232F109	A	EA	1					D3	56
X20 00022		PLATE, IDENTIFICATION: SELECTOR SWITCH (27315) 232F288	B	EA	1					D4	17
X20 00023		PLATE, IDENTIFICATION: TINED WELD (27315) 232H332	A	EA	1					D3	7

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS- TRATION	
						(a)	(b)	(c)	(d)	(e)	(f)
						1-5	6-20	21-50	51-100	FIG. NO.	ITEM NO.
X20 00024		PLATE, IDENTIFICATION; TINED WELD (27315) 232F291	B	EA	1					D9	12
X20 00025		PLATE, IDENTIFICATION; WELDING CONTROLS (27315) 232E107	A	EA	1					D3	66
X20 00026		PLATE, IDENTIFICATION; WELDING CONTROLS (27315) 232E142	B	EA	1					D4	22
X20 00027		PLATE, INSTRUCTION; CALIBRATION (27315) 232H316	A	EA	1					D3	16
X20 00029		PLATE, INSTRUCTION; CALIBRATION (27315) 232H474	B	EA	1					D4	2
X20 00030		PLATE, INSTRUCTION; OPERATION (27315) 232H559	A	EA	1					D3	64
X20 00031		PLATE, INSTRUCTION; OPERATION (27315) 232H476	B	EA	1					D4	20
X20 00032		PLATE, INSTRUCTION; SCHEMATIC DIAGRAM (27315) 232H376	A	EA	1					D3	61
X20 00033		PLATE, INSTRUCTION; WIRING DIAGRAM (27315) 232H375	A	EA	1						
O 00034	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD; IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) NS206000A4-2		EA	64					D3	1
O 00035	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD; IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) NS206000A4-2	B	EA	14					D9	10
X20 00036	5305-014-5367	SCREW, TAPPING, THREAD FORMING; IDENTIFICATION PLATE MTR (27315) 2024007	A	EA	2					D8	1
00037		GROUP 44 - WELDING									
00038		4405 - FRAME SUPPORT, HOUSING, CARRIER, ETC									
X20 00042		BAFFLE; CONTACTOR (27315) 227H49		EA	1					D10	17
X20 00043		BAFFLE, FRONT (27315) 227H200		EA	1					D10	18
P O 00050	5340-559-8846	CLAMP, LOOP (09922) NP11N		EA	2	*	*	*	*	D1	35
X20 00051		COVER, TOP; WELDER (27315) 214E49		EA	1					D1	4
P O 00052	5325-012-4374	GROMMET, PLASTIC; RECTIFIER BAFFLE (27315) 287Z31D15		EA	1	*	*	*	2	D1	6
P O 00053	5325-012-4376	GROMMET, PLASTIC; RECTIFIER BAFFLE (27315) 287Z31D16		EA	1	*	*	*	2	D1	5
O 00062	5310-013-4530	NUT, PLAIN, HEXAGON; CABLE CLAMP MTR SCREW, CADMIUM OR ZINC PLATED, NO. 6-32 THD SIZE (96906) NS35649-62		EA	2					D1	38

(1) NSR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE OR CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS- TRATION	
						(a)	(b)	(c)	(d)	(e)	(f)
						1-5	6-20	21-50	51-100	FIG. NO.	ITEM NO.
0 00071	5310-274-8893	NUT, SELF-LOCKING HEXAGON; SIDE RAIL, RELAY PANEL, CONTROL TRANSFORMER AND FAN MTS SCREW, CADMIUM OR ZINC PLATED, 1/4 X 20 THD SIZE (72962) 21CU040		EA	26					D1	33
0 00071		NUT, SHEET SPRING; BAFFLE MTS (78553) C917-1024	A	EA	10					D10	32
0 00072		NUT, SHEET SPRING; BOTTOM REAR SHROUD MTS (78553) C917-1024		EA	14					D1	25
0 00074	5310-202-8545	NUT, SHEET SPRING; CONTACTOR SUPPORT MTS SCREW (78553) C700-1420-4		EA	4					D10	11
0 00075		NUT, SHEET SPRING; REAR SUPPORT (78553) C7343-1420	B	EA	10					D10	32
0 00076	5310-202-8549	NUT, SHEET SPRING; SHROUD AND PANEL MTS SCREW (78553) C1793-1024		EA	35					D1	3
0 00077	5310-202-8548	NUT, SHEET SPRING; TOP REAR SHROUD MTS (78553) C1881-1024		EA	5					D1	34
P20 00078	5340-956-0098	PLUG, PROTECTIVE; DUST AND MOISTURE SEAL (99017) BP13-4		EA	2	*	*	*	*	D1	9
0 00080	5305-042-0479	SCREW, ASSEMBLED WASHER; BAFFLE MOUNTING (08285) MS35305-9	A	EA	10					D10	33
0 00081	5305-042-0479	SCREW, ASSEMBLED WASHER; SHROUD AND PANEL MTS, CADMIUM OR ZINC PLATED, No. 10-24 THD SIZE, 5/8 IN. LG (08285) MS35305-9		EA	54					D1	1
0 00084	5305-261-1820	SCREW, CAP, HEXAGON HEAD; CONTACTOR SUPPORT MTS (96906) MS35289-5	A	EA	4					D10	10
0 00085	5305-261-1822	SCREW, CAP, HEXAGON HEAD; CONTACTOR SUPPORT MTS (96906) MS35289-6	B	EA	4					D10	10
0 00087	5305-012-1887	SCREW, CAP, HEXAGON; REAR SUPPORT (96906) MS35291-6	B	EA	10					D10	33
0 00090	5305-043-6666	SCREW, MACHINE; CABLE CLAMP MTS, (96906) MS35225-31		EA	2					D1	36
0 00091	5305-558-3676	SCREW, MACHINE; SIDE RAIL, RELAY PANEL, CONTROL TRANSFORMER AND FAN MTS, CADMIUM OR ZINC CHROMATE (96906) MS35225-80		EA	26					D1	32
X20 00092		SHROUD, REAR; BOTTOM (27315) 227F95		EA	1					D1	31
X20 00093		SHROUD, REAR; TOP (27315) 227E16703		EA	1					D1	2
X20 00094		SHROUD, SIDE; LEFT HAND (27315) 227E217		EA	1					D1	30
X20 00095		SHROUD, SIDE; RIGHT HAND (27315) 227E116		EA	1					D1	8
X20 00096		SUPPORT, BAFFLE (27315) 227M15		EA	2					D10	16
X20 00098		SUPPORT, CONTACTOR (27315) 216F417	B	EA	1					D10	9
0 00102		WASHER, FLAT; REAR SUPPORT AND CONTACTOR SUPPORT MTS (96906) MS15795-211		EA	14					D10	34

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS- TRATION	
						(a)	(b)	(c)	(d)	(e)	(f)
						1-5	6-20	21-50	51-100	FIG. NO.	ITEM NO.
0 00104	5310-596-7674	WASHER, LOCK: CABLE CLAMP MTB SCREW, CADMIUM OR ZINC CHROMATE, 0.141 IN. ID, 0.239 IN. OD, 0.025 IN. THR (96906) MS35338-22		EA	2					01	37
0 00111	5310-011-5543	WASHER, LOCK: RECEPTACLE MTB, 0.145 IN. ID, 0.285 IN. OD, 0.019 IN. THR (96906) MS35333-3		EA	8					03	68
00112		4406 - VENTILATING, COOLING SYSTEM									
X20 00113		FAN, AXIAL; COOLING (27315) 9227H11		EA	1					02	
X20 00114		CLIP: FAN MOTOR MTB (27315) 2324302D1		EA	8					02	3
X20 00115		IMPELLER, FAN, AXIAL (39595) X7600		EA	1					02	9
P20 00116	6105-761-8702	MOTOR, ALTERNATING CURRENT; COOLING FAN (27315) 288215		EA	1	•	•	•	•	02	6
0 00117	5305-527-4195	NUT, PLAIN, HEXAGON: FAN SUPPORT MTB SCREW		EA	2					02	8
0 00118	5310-811-3494	NUT, SELF-LOCKING, HEXAGON: FAN MOTOR MTB, CADMIUM PLATED, No. 10-32 THD SIZE (72962) 22MM82		EA	4					02	2
0 00120	5305-558-3676	SCREW, MACHINE: FAN SUPPORT MTB		EA	2					02	7
X20 00121		SPACER, SLEEVE: FAN MOTOR MTB (27315) 18P92608		EA	4					02	5
X20 00122		SUPPORT, FAN (27315) 227U1		EA	1					02	4
00123		4407 - CONTROL PANELS, HOUSING									
P20 00124	6625-012-4464	AMMETER: ALTERNATING CURRENT (03516) 612X54	A	EA	1	•	•	•	•	03	69
P20 00125	6625-012-4465	AMMETER: DIRECT CURRENT (03516) 514X26	A	EA	1	•	•	•	•	03	71
X20 00128	5995-557-1116	CAP, PLUG: WATER AND GAS CONNECTION (99017) 6X		EA	4					03	41
X20 00129		DOOR ASSEMBLY, TERMINAL (27315) 279425502		EA	1					03	58
X20 00130	5340-266-0759	BUMPER, RUBBER (70485) 829		EA	2						
X1 00131		DOOR, TERMINAL (27315) 279F160		EA	1						
0 00132	4730-271-5553	ELBOW, PIPE: SOLENOID VALVE, BRASS OR BRONZE, ONE END MALE, OTHER END FEMALE, 1/4-18 THD SIZE (70411) 616L		EA	4					03	43
X20 00133		FILTER ASSEMBLY, WATER (27315) 2164021	B	EA	1					04	8
X20 00134		FILTER: WATER (80721) 86002	B	EA	1					04	10
X20 00135		NIPPLE, PIPE (27315) 2419V038	B	EA	1					04	9

(1) SHR CODE	(2) FEDERAL STOCK NUMBR	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE OR CODE	(5) UNIT OF MEAS	QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS- TRATION	
						(a)	(b)	(c)	(d)	(a)	(b)
						1-5	6-20	21-50	51-100	FIG. NO.	ITEM NO.
X20 00136		REDUCER, PIPE: WATER CONNECTION (27315) 24422	B	EA	1					04	11
X20 00137		GROMMET, PLASTIC (27315) 287231013	B	EA	1					09	2
X20 00138		HANDLE, SWITCH: RANGE AND SELECTOR (27315) 2067304		EA	2					03	60
0 00370	5315-619-0212	PIN, SPRING: HANDLE MTS, RANGE AND SELECTOR SWITCH (72962) 59-040-187-1000		EA	2					03	59
X20 00371		REDUCER, PIPE: GAS CONNECTION (27315) 24423		EA	2					03	42
X20 00372		REDUCER, PIPE: WATER CONNECTION (27315) 24422		EA	2					03	45
0 00375	5305-043-6663	SCREW, MACHINE: RECEPTACLE MTS, CADMIUM OR ZINC CHROMATE, 6-32 THD SIZE, 3/8 IN. LG (96906) MS35225-28		EA	8					03	9
P20 00377	6625-012-4470	VOLTMETER: ALTERNATING CURRENT (03516) 612X80	A	EA	1	*	*	*	*	03	70
P20 00378	6625-012-4471	VOLTMETER: DIRECT CURRENT (03516) 518X10		EA	1	*	*	*	*	03	72
00379		4408 - CONNECTING DEVICES									
X20 00380	5940-012-4427	BOARD, TERMINAL: GROUND AND ELECTRODE, CONTROL PANEL (27315) 9279421-5		EA	1					03	
X1 00381		BOARD, TERMINAL (27315) 2794230		EA	1					03	47
0 00382	5310-202-8552	NUT, PLAIN, HEXAGON: TERMINAL SCREW (96906) MS35690-802		EA	2					03	46
0 00383	5310-655-9662	NUT, PLAIN, HEXAGON: TERMINAL SCREW (96906) MS35691-802		EA	2					03	75
0 00384	5305-543-4891	SCREW, CAP, HEXAGON HEAD: TERMINAL (96906) MS35291-114		EA	2					03	48
X20 00395		CABLE ASSEMBLY (27315) 9279F243013	B	EA	1					04	15
X20 00396		CABLE ASSEMBLY (27315) 9279F243014	B	EA	1					04	14
P20 00397	5935-187-0727	CONNECTOR PLUG, ELECTRICAL: CONTACTOR CONTROL (74545) 7484	A	EA	1	*	*	*	*	03	13
P20 00398	5935-187-0727	CONNECTOR, PLUG, ELECTRICAL: CONTACTOR CONTROL (74545) 7484	B	EA	1	*	*	*	*	09	8
P20 00399	5935-149-4181	CONNECTOR, PLUG, ELECTRICAL: OUTPUT SIGNAL (81348) WC396STYLEC21		EA	1	*	*	*	*	03	8
P20 00400	5935-149-4181	CONNECTOR, PLUG, ELECTRICAL: OUTPUT SIGNAL (81348) WC396STYLEC21	B	EA	1	*	*	*	*	09	7
P20 00401	5935-891-8671	CONNECTOR, PLUG, ELECTRICAL: REMOTE CONTACTOR CONTROL (81348) WC396STYLEM21	A	EA	1	*	*	*	*	03	74

(1) SHR CODE	(2) FEDERAL STOCK NUMBR	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS- TRATION	
						(a)	(b)	(c)	(d)	(a)	(b)
						1-5	6-20	21-50	51-100	FIG. NO.	ITEM NO.
P20 00402	5935-892-9806	CONNECTOR, PLUG, ELECTRICAL; WELD TIMER CINCH JONES (71785) P1-241258	B	EA	1	•	•	•	•	D9	3
P20 00403	5935-012-4416	CONNECTOR, RECEPTACLE, ELECTRICAL: AXILLARY AC POWER (81091) 5242T		EA	1	•	•	•	•	D3	40
P20 00404	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287244	A	EA	1	•	•	•	•	D3	14
P20 00405	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287244	B	EA	1	•	•	•	•	D9	9
P20 00406	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287232		EA	1	•	•	•	•	D3	10
P20 00407	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287232	B	EA	1	•	•	•	•	D9	6
P20 00408	5935-893-0736	CONNECTOR, RECEPTACLE, ELECTRICAL: REMOTE CONTACTOR CONTROL (77166) 7250GT		EA	1	•	•	•	•	D3	25
P20 00409	5935-017-9590	CONNECTOR, RECEPTACLE, ELECTRICAL: REMOTE OUTPUT CONTROL (77166) 7410GT		EA	1	•	•	•	•	D3	24
P20 00410	5935-892-9814	CONNECTOR, RECEPTACLE, ELECTRICAL: WELD TIMER (71785) S1-2412CCT	B	EA	1	•	•	•	•	D4	23
P20 00414	5935-581-4099	CONNECTOR, PLUG, ELECTRICAL (81348) WC596P22	B	EA	1	•	•	•	•	D6	2
P20 00415	5935-891-2671	CONNECTOR, PLUG, ELECTRICAL (81348) WC596STYLE21	B	EA	1	•	•	•	•	D6	4
0 00488	5310-012-0622	NUT, PLAIN, HEXAGON: AXILLARY AC POWER RECEPTACLE NUTS, CADMIUM OR ZINC CHROMATE, No. 8-32 TND SIZE (96906) MS35649-82		EA	2					D3	39
0 00489	5310-543-4971	NUT, PLAIN, HEXAGON: INPUT GROUND STUD, BRASS (96906) MS35690-411		EA	2					D1	27
0 00490	5310-013-4530	NUT, PLAIN, HEXAGON: RECEPTACLE MOUNTING (96906) MS35649-62	A	EA	4					D3	22
0 00491	5310-550-0777	NUT, PLAIN, HEXAGON: TERMINAL BOARD NUT SCREW (96906) MS35690-402		EA	2					D3	49
0 00492	5305-550-3934	SCREW, CAP, HEXAGON HEAD: INPUT GROUND STUD, BRASS, 1/4-20 TND SIZE (96906) MS35309-8		EA	1					D1	19
0 00493	5305-531-1783	SCREW, CAP, HEXAGON HEAD: TERMINAL BOARD NUT, CADMIUM OR ZINC CHROMATE, 1/4-20 TND SIZE, 1 IN. LG (96906) MS35291-8		EA	2					D3	51
0 00494	5305-043-6693	SCREW, MACHINE: AXILLARY AC POWER RECEPTACLE AND SOLENOID VALVE NUT, CADMIUM OR ZINC CHROMATE, No. 8-32 TND SIZE, 3/8 IN. LG (96906) MS35225-43		EA	6					D3	53
P 0 00501	5935-891-2671	CONNECTOR, PLUG, ELECTRICAL; SWITCH CABLE (81348) WC596STYLE	A	EA	1	•	•	•	2	D5	1

(1) S&M CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS- TRATION		
					(a)	(b)	(c)	(d)	(e)	(f)	
					1-5	6-20	21-50	51-100	FIG. NO.	ITEM NO.	
0 00505	5310-013-1498	NUT, PLAIN, CAP; SWITCH COVER MTS STUD, CADMIUM OR ZINC PLATED, No. 10-32 TND SIZE (27315) 20261605	A	EA	2					D5	4
0 00511		STUD, PLAIN; SWITCH COVER MOUNTING (97918) 3-4754	A	EA	1					D5	6
0 00513	5310-043-2226	WASHER, LOCK; SWITCH COVER MTS STUD, CADMIUM OR ZINC PLATED, 0.194 IN. ID, 0.337 IN. OD, 0.047 IN. THK (96906) MS35338-24	A	EA	2					D5	5
0 00517	5940-050-6221	TERMINAL, LUG; INPUT GROUND STUD, COPPER, TINNED, No. 6 AWG FOR 1/A IN. BOLT SIZE (59730) E71		EA	1					D1	28
0 00523	5310-209-5309	WASHER, LOCK; AXILLARY AC POWER RECEPTACLE AND SOLENOID VALVE MTS, CADMIUM OR ZINC CHROMATE, 0.168 IN. ID, 0.296 IN. OD, 0.40 IN. THK (96906) MS35338-23		EA	6					D3	52
0 00524	5310-017-1916	WASHER, LOCK; INPUT GROUND STUD, CADMIUM OR ZINC PLATED, 0.262 IN. ID, 0.036 IN. THK (70189) 4014-22-00		EA	1					D1	26
0 00525	5310-011-5547	WASHER, LOCK; INPUT GROUND STUD, 0.262 IN. ID, 0.469 IN. OD, 0.025 IN. THK (96906) MS35333-6	A	EA	1					D1	20
0 00526	5310-596-7674	WASHER, LOCK; RECEPTACLE MTS (96906) MS35338-22	A	EA	4					D3	21
00527		4409 - PROTECTIVE DEVICES, ELECTRICAL									
X20 00528	5980-280-3763	ADAPTER, FUSE (08288) MS35920-02		EA	1					D3	54
X20 00529	5980-221-5689	FUSEHOLDER; CONTROL PANEL (08288) MS35920-02		EA	1					D3	38
P 0 00530	5980-280-9312	FUSE, PLUG; CONTROL PANEL (71400) 35-6-10		EA	1	*	*	*	2	D3	55
0 00531	5310-012-0614	NUT, PLAIN, HEXAGON; THERMOSTATIC SWITCH MTS SCREW (96906) MS35650-102		EA	3					D12	55
0 00532	5305-043-6750	SCREW, MACHINE; THERMOSTATIC SWITCH MTS (96906) MS35226-63		EA	3					D12	49
X20 00533		SWITCH ASSEMBLY, THERMOSTATIC; POWER RECTIFIER BASE (27315) 9275F291-1		EA	1					D12	
X1 00534		BASE; THERMOSTATIC SWITCH (27315) 2794413		EA	1					D12	59
X1 00535		BRACKET; SWITCH (27315) 2794195		EA	1					D12	58
0 00542	5310-012-0622	NUT, PLAIN, HEXAGON; BASE AND SUPPORT MTS SCREW (96906) MS35649-82		EA	2					D12	63

(1) SMR CODE	(2) FEDERAL STOCK NUMBR	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS- TRATION		
					(a)	(b)	(c)	(d)	(e)	(f)	
					1-5	6-20	21-50	51-100	FIG. NO.	ITEM NO.	
0 00543	5305-043-6693	SCREW, MACHINE: BASE AND SUPPORT NTB (96906) MS35225-43		EA	2					D12	56
X1 00544		SUPPORT, THERMOSTATIC SWITCH (27315) 2794414		EA	1					D12	61
P20 00545	5930-012-4409	SWITCH, THERMOSTATIC (27315) 27929101		EA	1	•	•	•	•	D12	60
0 00546	5310-209-5309	WASHER, LOCK: BASE AND SUPPORT NTB SCREW (96906) MS35338-23		EA	2					D12	62
X20 00547		SWITCH ASSEMBLY, THERMOSTATIC; REACTOR COIL (27315) 9279F290-2		EA	1					D12	
X1 00548		BASE: THERMOSTATIC SWITCH (27315) 2794410		EA	1					D12	45
X1 00549		BRACKET: SWITCH NTB (27315) 2794412		EA	1					D12	66
0 00553	5310-012-0622	NUT, PLAIN, HEXAGON: TERMINAL, BASE AND SUPPORT NTB SCREW (96906) MS35649-82		EA	4					D12	41
0 00554	5305-043-6693	SCREW, MACHINE: TERMINAL, BASE AND SUPPORT NTB (96906) MS35225-43		EA	4					D12	48
X1 00555		SUPPORT, THERMOSTATIC SWITCH (27315) 2794409		EA	1					D12	69
P20 00556	5930-012-4407	SWITCH, THERMOSTATIC (27315) 27929103		EA	1	•	•	•	•	D12	68
0 00558	5310-209-5309	WASHER, LOCK: TERMINAL, BASE AND SUPPORT NTB SCREW (96906) MS35338-23		EA	4					D12	70
X20 00559		SWITCH ASSEMBLY, THERMOSTATIC; STABILIZING REACTOR (27315) 9279F290-1		EA	1					D12	
X1 00560		BASE: THERMOSTATIC SWITCH (27315) 2794410		EA	1					D12	67
X1 00561		BRACKET: SWITCH NTB (27315) 2794411		EA	1					D12	46
0 00565	5310-012-0622	NUT, PLAIN, HEXAGON: TERMINAL, BASE AND SUPPORT NTB SCREW, CADMIUM OR ZINC PLATED, No. 10-32 TND SIZE (96906) MS35649-82		EA	4					D12	71
0 00566	5305-043-6693	SCREW, MACHINE: TERMINAL, BASE AND SUPPORT NTB, CADMIUM OR ZINC CHROMATE, No. 10-32 TND SIZE, 1/2 IN. LG (96906) MS35225-43		EA	4					D12	64
P 0 00568	5930-012-4403	SWITCH, THERMOSTATIC (27315) 27929104		EA	1	•	•	•	•	D12	44
0 00570	5310-209-5309	WASHER, LOCK: TERMINAL, BASE AND SUPPORT NTB SCREW (96906) MS35338-23		EA	4					D12	42
0 00571	5310-043-2226	WASHER, LOCK: THERMOSTATIC SWITCH MOUNTING (96906) MS35338-24		EA	3					D12	50
0 00572	5310-010-3319	WASHER, LOCK: TERMINAL BOARD NTB SCREW, 0.255 IN. ID, 0.493 IN. OD, 0.062 IN. THK (96906) MS35338-6		EA	2					D3	76

(1) SMP CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS- TRATION	
						(a)	(b)	(c)	(d)	(a)	(b)
						1-5	6-20	21-30	51-100	FIG. NO.	ITEM NO.
00573		4410 - SWITCHING, TIMING AND SPEED CONTROL									
X20 00574	5945-012-4430	CONTACTOR (04009) 34522U	A	EA	1					D10	14
X20 00575		CONTACTOR (12584) AGO-290650A	B	EA	1					D10	14
O 00576		NUT, SELF-LOCKING, HEXAGON; CONTACTOR MTS (72962) 224402		EA	3					D10	8
O 00579	5310-274-8887	NUT, SELF-LOCKING, HEXAGON; TIMER MTS, CADMIUM OR ZINC PLATED, No. 6-32 THD SIZE (72962) 224462		EA	8					D3	20
O 00585	5305-021-4602	SCREW, CAP, HEXAGON HEAD; SPARK GAP ASSEMBLY MTS, CADMIUM PLATED, 1/4-28 THD SIZE, 3/4 IN. LG (96906) MS35292-5		EA	2					D12	18
O 00587	5305-043-6752	SCREW, MACHINE; CONTACTOR MTS, CADMIUM OR ZINC CHROMATE, No. 10-32 THD SIZE, 3/4 IN. LG (96906) MS35226-65	A	EA	3					D10	15
O 00588	5305-044-5957	SCREW, MACHINE; RANGE SWITCH AND SELECTOR SWITCH MTS, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 3/8 IN. LG (96906) MS35225-77		EA	6					D3	57
O 00590	5305-043-6663	SCREW, MACHINE; TIMER MTS (96906) MS35225-28		EA	8					D3	3
P O 00591	3431-012-4362	SPARK GAP ASSEMBLY (27315) 9579F81-1		EA	1	•	2	2	2	D12	
X1 00592		INSULATOR, GAP STUD (27315) 579F133		EA	1					D12	12
O 00593	5305-010-0111	SCREW, CAP, HEXAGON HEAD; SPARK GAP TERMINAL ASSEMBLY MTS, 1/4-20 THD SIZE, 1 1/4 IN. LG (96906) MS35289-10		EA	3					D12	8
O 00594	5310-010-3319	WASHER, LOCK; SPARK GAP TERMINAL ASSEMBLY MTS (96906) MS35338-6		EA	3					D12	9
X1 00595		TERMINAL ASSEMBLY, SPARK GAP (27315) 9279H10		EA	2					D12	10
O 00596	5305-543-4251	SCREW, MACHINE; 1/4-28 THD SIZE, 3/8 IN. LG (96906) MS35222-77		EA	2						
O 00597	5310-010-3319	WASHER, LOCK (96906) MS35338-6		EA	2						
X1 00598		TERMINAL ASSEMBLY, SPARK GAP (27315) 9279H9		EA	1					D12	11
P20 00599	5930-636-4796	SWITCH, PUSHBUTTON; LINE (27191) 7611A	B	EA	1	•	•	•	•	D4	5
P20 00670	5930-012-4410	SWITCH, TOGGLE; HIGH FREQUENCY AND WELDING PROCESS (27191) 7613K4		EA	2	•	•	•	•	D3	28
P20 00671	5930-012-4411	SWITCH, TOGGLE; LINE (27191) 7611K4		EA	1	•	•	•	•	D3	27

(1) SMR CODE	(2) FEDERAL STOCK NUMBR	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE DN CODE	(5) UNIT OF MEAS INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS- TRATION		
					(a)	(b)	(c)	(d)	(a)	(b)	
					1-5	6-20	21-50	51-100	FIG. NO.	ITEM NO.	
P20 00672	5930-012-4414	SWITCH, TOGGLE: REMOTE CONTROL AND SOFT START (27191) 7565X8		EA	2	•	•	•	•	D3	26
P20 00673	6645-840-6186	TIMER, INTERVAL: POST-PURGE (30703) MIM	A	EA	1	•	•	•	•	D3	4
P20 00674	6645-840-6186	TIMER, INTERVAL: POST-PURGE AND PRE-PURGE (30703) MIM	B	EA	2	•	•	•	•	D4	3
P20 00675	6645-012-4371	TIMER, INTERVAL: TIMED WELD (30703) M6S		EA	1	•	•	•	•	D3	6
X20 00676		TIMER ASSEMBLY, INTERVAL: TIMED WELD REPAIR KIT (27315) 2100H1531		EA	1					D9	
P20 00677	5935-187-0727	CONNECTOR, PLUG, ELECTRICAL: CONTACTOR CONTROL (74545) 74284	B	EA	1	SEE	GRP	4408		D9	8
P20 00678	5935-259-3105	CONNECTOR, PLUG, ELECTRICAL: OUTPUT SIGNAL (74545) 7428	B	EA	1	SEE	GRP	4408		D9	7
P20 00679	5935-892-9806	CONNECTOR, PLUG, ELECTRICAL: WELD TIMER CINC JONES (71785) P1-241258	B	EA	1	SEE	GRP	4408		D9	3
P20 00680	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287244	B	EA	1	SEE	GRP	4408		D9	9
P20 00681	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287232	B	EA	1	SEE	GRP	4408		D9	6
X20 00682		DOOR: TIME WELD (27315) 214481	B	EA	1					D9	1
X20 00683		GROMMET, PLASTIC (27315) 287231013	B	EA	1	SEE	GRP	4407		D9	2
X20 00684		PLATE, IDENTIFICATION: TIMED WELD (27315) 232F291	B	EA	1	SEE	GRP	2210		D9	12
X20 00685	5945-012-4431	RELAY, ARMATURE (77342) AB1339	B	EA	1					D9	4
X20 00686	5945-012-4437	RELAY, ARMATURE (77342) AB1337	B	EA	1					D9	5
O 00687	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD: IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) MS20600AD4-2	B	EA	14	SEE	GRP	2210		D9	10
O 00688	5305-988-1724	SCREW, MACHINE: TIMED WELD PANEL MTR (96906) MS35206-280	B	EA	1					D9	13
X20 00689	6645-012-4371	TIMER, INTERVAL: TIMED WELD (30703) M6S	B	EA	1					D9	11
O 00690	5310-543-2705	WASHER, LOCK: TIMED WELD PANEL MTR (96906) MS35338-27	B	EA	1					D9	14
P O 00691	4810-012-4355	VALVE, SOLENOID: WATER AND GAS CONTROL (05402) 70291-063		EA	2	•	•	•	2	D3	44

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUS- TRATION	
						(a)	(b)	(c)	(d)	(a)	(b)
						1-5	6-20	21-50	51-100	FIG. NO.	ITEM NO.
0 00694	5310-012-0380	WASHER, LOCK; SPARK GAP ASSEMBLY MTS (96906) MS35338-25		EA	2					D12	17
00695		4411 - RESISTOR COMPONENTS									
P20 00723	3431-012-4357	CABLE ASSEMBLY, ELECTRICAL; REMOTE RHEOSTAT (27315) 279F109026	A	EA	1	•	•	•	•	D8	12
P20 00724	5935-296-8672	CONNECTOR, PLUG, ELECTRICAL; REMOTE RHEOSTAT CABLE (74545) 7411	A	EA	1	•	•	•	•	D8	14
X20 00728		PLATE, IDENTIFICATION; REMOTE RHEOSTAT (27315) 232496	A	EA	1	SEE	GRP	2210		D8	2
0 00734	5305-011-3231	SCREW, TAPPING, THREAD FORMING; IDENTIFICATION PLATE MTS (27315) 2024007	A	EA	2	SEE	GRP	2210		D8	1
00748		4412 - TRANSFORMER COMPONENTS									
0 00794	5305-021-4602	SCREW, CAP, HEXAGON HEAD; SPARK GAP ASSEMBLY MTS (96906) MS35292-5		EA	2	SEE	GRP	4410		D12	18
P 0 00800	3431-012-4362	SPARK GAP ASSEMBLY (27315) 957981-1		EA	1	SEE	GRP	4410		D12	
0 00806	5310-012-0380	WASHER, LOCK; SPARK GAP ASSEMBLY MTS (96906) MS35338-25		EA	2	SEE	GRP	4410		D12	17

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
00001		SECTION V - REPAIR PARTS FOR DS, GS MAINTENANCE												
00001A		GROUP 22 - BODY, CHASSIS OR HULL, AND ACCESSORY ITEMS												
00002		2210 - DATA PLATES												
X20 00003		PLATE, IDENTIFICATION: AXILLARY AC POWER (27315) 232H277	A	EA	1								D3	62
X20 00004		PLATE, IDENTIFICATION: AXILLARY AC POWER (27315) 232H473	B	EA	1								D4	18
X2F 00005	9905-807-3712	PLATE, IDENTIFICATION, CORPS OF ENGINEER	A	EA	1									
X20 00006		PLATE, IDENTIFICATION: GAS AND WATER (27315) 232F110	A	EA	1								D3	65
X20 00007		PLATE, IDENTIFICATION: GAS AND WATER (27315) 232F289	B	EA	1								D4	19
X2F 00008		PLATE, IDENTIFICATION: GOVERNMENT (27315) 232H478	B	EA	1								D4	27
X20 00009		PLATE, IDENTIFICATION: GROUND AND ELECTRODE (27315) 232H275	A	EA	1								D3	50
X20 00010		PLATE, IDENTIFICATION: GROUND AND ELECTRODE (27315) 232H475	B	EA	1								D4	16
X20 00011		PLATE, IDENTIFICATION, HARNISCHFEGER CORP (27315) 232E113	A	EA	1								D3	2
X20 00012		PLATE, IDENTIFICATION, HARNISCHFEGER CORP (27315) 232E143	B	EA	1								D4	1
X20 00013		PLATE, IDENTIFICATION: OUTPUT VOLTAGE SIGNAL (27315) 232H334	A	EA	1								D3	11
X20 00014		PLATE, IDENTIFICATION: POST-PURGE (27315) 232H333	A	EA	1								D3	5
X2F 00015		PLATE, IDENTIFICATION: POST-PURGE (27315) 232H475	B	EA	1								D4	4
X20 00016		PLATE, IDENTIFICATION: PRE-PURGE (27315) 232H477	B	EA	1								D4	25
X20 00017		PLATE, IDENTIFICATION: RANGE SWITCH (27315) 232F217	A	EA	1								D3	63
X20 00018		PLATE, IDENTIFICATION: RANGE SWITCH (27315) 232F290	B	EA	1								D4	21
X20 00019		PLATE, IDENTIFICATION: REMOTE CONTACTOR CONTROL (27315) 232H331	A	EA	1								D3	12
X20 00020		PLATE, IDENTIFICATION: REMOTE RHEOSTAT (27315) 232H96	A	EA	1								D8	2
X20 00021		PLATE, IDENTIFICATION: SELECTOR SWITCH (27315) 232F109	A	EA	1								D3	56

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
X20 00022		PLATE, IDENTIFICATION: SELECTOR SWITCH (27315) 232F288	B	EA	1								D4	17
X20 00023		PLATE, IDENTIFICATION: TIMED WELD (27315) 232H332	A	EA	1								D3	7
X20 00024		PLATE, IDENTIFICATION: TIMED WELD (27315) 232F291	B	EA	1								D9	12
X20 00025		PLATE, IDENTIFICATION: WELDING CONTROLS (27315) 232E107	A	EA	1								D3	66
X20 00026		PLATE, IDENTIFICATION: WELDING CONTROLS (27315) 232E142	B	EA	1								D4	22
X20 00027		PLATE, INSTRUCTION: CALIBRATION (27315) 232H318	A	EA	1								D3	16
X2F 00028		PLATE, INSTRUCTION: CALIBRATION (27315) 232H95	A	EA	1								D8	15
X20 00029		PLATE, INSTRUCTION: CALIBRATION (27315) 232H474	B	EA	1								D4	2
X20 00030		PLATE, INSTRUCTION: OPERATION (27315) 232H359	A	EA	1								D3	64
X20 00031		PLATE, INSTRUCTION: OPERATION (27315) 232H476	B	EA	1								D4	20
X20 00032		PLATE, INSTRUCTION: SCHEMATIC DIAGRAM (27315) 232H376	A	EA	1								D3	61
X20 00033		PLATE, INSTRUCTION: WIRING DIAGRAM (27315) 232H375	A	EA	1									
0 00034	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD: IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) MS20600AD4-2		EA	64								D3	1
0 00035	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD: IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) MS20600AD4-2	B	EA	14								D9	10
X20 00036	5305-014-5367	SCREW, TAPPING, THREAD FORMING: IDENTIFICATION PLATE MTG (27315) 2024007	A	EA	2								D8	1
00037		GROUP 44 - WELDING												
00038		4405 - FRAME SUPPORT, HOUSING, CARRIER, ETC												
X2F 00039		ANGLE, MOUNTING: MAIN TRANSFORMER, LEFT HAND (27315) 216E48D1	A	EA	1								D11	40
X2F 00040		ANGLE, MOUNTING: MAIN TRANSFORMER, RIGHT HAND (27315) 216E48D2	A	EA	1								D11	35
X2F 00041		BAFFLE, AIR (27315) 227F282	A	EA	2								D12	26
X20 00042		BAFFLE: CONTACTOR (27315) 227H49		EA	1								D10	17

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
X20 00043		BAFFLE, FRONT (27315) 227F200		EA	1								D10	18
X2F 00044		BAFFLE; MAIN TRANSFORMER (27315) 227F157		EA	1								D11	7
X2F 00045		BAFFLE; MAIN TRANSFORMER (27315) 227F158		EA	1								D11	31
X2F 00046		BAFFLE; REACTOR COIL (27315) 227F48		EA	1								D10	22
X2F 00047		BAFFLE, RECTIFIER (27315) 227F27203		EA	1								D1	7
X2F 00048		BASE, WELDER (27315) 216E58		EA	1								D1	14
F 00049	5306-225-8497	BOLT, MACHINE: UPRIGHT TO BASE MTG, CADMIUM OR ZINC CHROMATE, 5/16-18 THD SIZE, 3/4 IN. LG (96906) MS90725-32		EA	16								D1	30
P O 00050	5340-559-8846	CLAMP, LOOP (09922) HP11N		EA	2	*	*	2	*	*	2	6	D1	35
X20 00051		COVER, TOP: WELDER (27315) 214E49		EA	1								D1	4
P O 00052	5325-012-4374	GROMMET, PLASTIC: RECTIFIER BAFFLE (27315) 287Z31D15		EA	1	*	2	2	*	2	2	12	D1	6
P O 00053	5325-012-4376	GROMMET, PLASTIC: RECTIFIER BAFFLE (27315) 287Z31D16		EA	1	*	2	2	*	2	2	12	D1	5
X2F 00054		HOLD-DOWN ASSEMBLY, CABLE (27315) 9275H3		EA	1								D1	39
X2F 00055		INSULATOR, PLATE: CABLE STRAP, LOWER (27315) 275H67D2		EA	1								D1	21
X2F 00056		INSULATOR, PLATE: CABLE STRAP, UPPER (27315) 275H67D1		EA	1								D1	22
F 00057	5310-550-0777	NUT, PLAIN, HEXAGON: CABLE HOLD-DOWN MTG SCREW, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE (96906) MS35690-402		EA	1								D1	24
F 00058	5305-071-2239	SCREW, CAP, HEXAGON HEAD: CABLE HOLD-DOWN MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE (96906) MS35291-12		EA	1								D1	15
X2F 00059		STRAP, CABLE (27315) 532H253		EA	1								D1	23
F 00060	5310-527-3289	WASHER, LOCK: CABLE HOLD-DOWN MTG, SCREW, ZINC CHROMATE, 0.262 IN. ID, 0.469 IN. OD, 0.025 IN. THK (96906) MS35333-23		EA	2								D1	16
F 00061	5310-202-8752	NUT, PLAIN, HEXAGON: ANGLE TO BASE MTG SCREW, CADMIUM OR ZINC PLATED, 1/2-13 THD SIZE (96906) MS35690-802		EA	4								D11	38
O 00062	5310-013-4530	NUT, PLAIN, HEXAGON: CABLE CLAMP MTG SCREW, CADMIUM OR ZINC PLATED, No. 6-32 THD SIZE (96906) MS35649-62		EA	2								D1	38
F 00063	5310-761-6882	NUT, PLAIN, HEXAGON: CONDENSER SUPPORT MTG (96906) MS51967-2	B	EA	2								D11	41

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION		
					(a)	(b)	(c)	(a)	(b)	(c)		(*)	(b)	
					1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.	
F 00064	5310-550-0777	NUT, PLAIN, HEXAGON: HIGH FREQUENCY ASSEMBLY MTG (96906) MS35690-402		EA	4							D12	39	
F 00065	5310-202-8552	NUT, PLAIN, HEXAGON: REACTOR AND TRANSFORMER SUPPORT MTG (96906) MS35690-802		EA	6							D10	21	
F 00066	5310-202-8552	NUT, PLAIN, HEXAGON: REACTOR AND TRANSFORMER SUPPORT MTG (96906) MS35690-802		EA	6							D11	32	
F 00067	5310-550-0777	NUT, PLAIN, HEXAGON: RECTIFIER BAFFLE MTG (96906) MS35690-402		EA	7							D1	29	
F 00068	5310-550-0777	NUT, PLAIN, HEXAGON: RECTIFIER BAFFLE AND SUPPORT MTG (96906) MS35690-402		EA	7							D12	28	
F 00069	5310-543-2629	NUT, PLAIN, HEXAGON: UPRIGHT TO BASE MTG SCREW, CADMIUM OR ZINC CHROMATE, 5/16-18 THD SIZE (96906) MS35690-502		EA	16							D1	17	
O 00070	5310-274-8893	NUT, SELF-LOCKING HEXAGON: SIDE RAIL, RELAY PANEL, CONTROL TRANSFORMER AND FAN MTG SCREW, CADMIUM OR ZINC PLATED, 1/4 X 20 THD SIZE (72962) 21CU040		EA	26							D1	33	
O 00071		NUT, SHEET SPRING: BAFFLE MTG (78553) C917-1024	A	EA	10							D10	32	
O 00072		NUT, SHEET SPRING: BOTTOM REAR SHROUD MTG (78553) C917-1024		EA	14							D1	25	
F 00073	5310-202-8547	NUT, SHEET SPRING: CONDENSER SUPPORT MTG (78553) C7343-1420-4	A	EA	2							D11	41	
O 00074	5310-202-8545	NUT, SHEET SPRING: CONTACTOR SUPPORT MTG SCREW (78553) C700-1420-4		EA	4							D10	11	
O 00075		NUT, SHEET SPRING: REAR SUPPORT (78553) C7343-1420	B	EA	10							D10	32	
O 00076	5310-202-8549	NUT, SHEET SPRING: SHROUD AND PANEL MTG SCREW (78553) C1793-1024		EA	35							D1	3	
O 00077	5310-202-8548	NUT, SHEET SPRING: TOP REAR SHROUD MTG (78553) C1881-1024		EA	5							D1	34	
P20 00078	5340-956-0098	PLUG, PROTECTIVE: DUST AND MOISTURE SEAL (99017) BP1-3-4		EA	2	*	*	*	*	*	*	5	D1	9
X2F 00079		RAIL, SIDE: UPRIGHT SUPPORT (27315) 216F195D1		EA	2								D1	11
O 00080	5305-042-0479	SCREW, ASSEMBLED WASHER: BAFFLE MOUNTING (08285) MS35305-9	A	EA	10							D10	33	
O 00081	5305-042-0479	SCREW, ASSEMBLED WASHER: SHROUD AND PANEL MTG, CADMIUM OR ZINC PLATED, No. 10-24 THD SIZE, 5/8 IN. LG (08285) MS35305-9		EA	54							D1	1	
F 00082	5305-527-4193	SCREW, CAP, HEXAGON HEAD: ANGLE TO BASE MTG, 1/2-13 THD SIZE, 1 1/4 IN. LG (96906) MS35291-111		EA	4							D11	36	

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00083	5305-012-1887	SCREW, CAP, HEXAGON HEAD: CONDENSER SUPPORT MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 3/8 IN. LG (96906) MS35291-6		EA	4								D11	5
O 00084	5305-261-1820	SCREW, CAP, HEXAGON HEAD: CONTACTOR SUPPORT MTG (96906) MS35289-5	A	EA	4								D10	10
O 00085	5305-261-1822	SCREW, CAP, HEXAGON HEAD: CONTACTOR SUPPORT MTG (96906) MS35289-6	B	EA	4								D10	10
F 00086	5305-068-0501	SCREW, CAP, HEXAGON HEAD: HIGH FREQUENCY ASSEMBLY MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 5/8 IN. LG (96906) MS35291-5		EA	4								D12	7
O 00087	5305-012-1887	SCREW, CAP, HEXAGON: REAR SUPPORT (96906) MS35291-6	B	EA	10								D10	33
F 00088	5305-637-4028	SCREW, CAP, HEXAGON HEAD: RECTIFIER BAFFLE MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 1/2 IN. LG (96906) MS35291-3		EA	7								D1	12
F 00089	5305-637-4028	SCREW, CAP, HEXAGON HEAD: RECTIFIER BAFFLE AND SUPPORT MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 1/2 IN. LG (96906) MS35291-3		EA	7								D12	52
O 00090	5305-043-6666	SCREW, MACHINE: CABLE CLAMP MTG (96906) MS35225-31		EA	2								D1	36
O 00091	5305-558-3676	SCREW, MACHINE: SIDE RAIL, RELAY PANEL, CONTROL TRANSFORMER AND FAN MTG, CADMIUM OR ZINC CHROMATE (96906) MS35225-80		EA	26								D1	32
X20 00092		SHROUD, REAR: BOTTOM (27315) 227F95		EA	1								D1	31
X20 00093		SHROUD, REAR: TOP (27315) 227E167D3		EA	1								D1	2
X20 00094		SHROUD, SIDE: LEFT HAND (27315) 227E217		EA	1								D1	40
X20 00095		SHROUD, SIDE: RIGHT HAND (27315) 227E116		EA	1								D1	8
X20 00096		SUPPORT, BAFFLE (27315) 227H15		EA	2								D10	16
X2F 00097		SUPPORT, CONDENSER (27315) 216H553		EA	1								D11	4
X20 00098		SUPPORT, CONTACTOR (27315) 216F417	B	EA	1								D10	9
X2F 00099		SUPPORT, RECTIFIER (27315) 216F371		EA	2								D12	36
X2F 00100		UPRIGHT: SHROUD ATTACHING (27315) 216F189D1		EA	4								D1	10
F 00101	5310-209-0709	WASHER, FLAT: CONDENSER SUPPORT MTG, CADMIUM OR ZINC CHROMATE, 0.312 IN. ID, 0.750 IN. OD, 0.065 IN. THK (96906) MS15795-211		EA	4								D11	6
O 00102		WASHER, FLAT: REAR SUPPORT AND CONTACTOR SUPPORT MTG (96906) MS15795-211		EA	14								D10	34

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00103	5310-012-0384	WASHER, LOCK; ANGLE TO BASE MTO SCREW, CADMIUM CHROMATE, 0.509 IN. ID, 0.879 IN. OD, 0.125 IN. THK (96906) MS35338-29		EA	4								D11	37
O 00104	5310-596-7674	WASHER, LOCK; CABLE CLAMP MTO SCREW, CADMIUM OR ZINC CHROMATE, 0.141 IN. ID, 0.239 IN. OD, 0.025 IN. THK (96906) MS35338-22		EA	2								D1	37
F 00105	5310-012-0380	WASHER, LOCK; HIGH FREQUENCY ASSEMBLY MTO (96906) MS35338-25		EA	4								D12	40
F 00106	5310-584-5272	WASHER, LOCK; REACTOR AND TRANSFORMER SUPPORT MTO (96906) MS35338-29		EA	6								D10	20
F 00107	5310-584-5272	WASHER, LOCK; REACTOR AND TRANSFORMER SUPPORT MTO (96906) MS35338-29		EA	6								D11	33
F 00108	5310-012-0380	WASHER, LOCK; RECTIFIER BAFFLE MTO SCREW, CADMIUM OR ZINC CHROMATE, 0.255 IN. ID, 0.493 IN. OD, 0.062 IN. THK (96906) MS35338-25		EA	7								D1	13
F 00109	5310-012-0380	WASHER, LOCK; RECTIFIER BAFFLE AND SUPPORT MTO SCREW, CADMIUM OR ZINC CHROMATE, 0.255 IN. ID, 0.493 IN. OD, 0.062 IN. THK (96906) MS35338-25		EA	7								D12	27
F 00110	5310-012-0214	WASHER, LOCK; UPRIGHT TO BASE MTO SCREW, CADMIUM OR ZINC CHROMATE, 0.319 IN. ID, 0.591 IN. OD, 0.078 IN. THK (96906) MS35338-26		EA	16								D1	18
O 00111	5310-011-5543	WASHER, LOCK; RECEPTACLE MTO, 0.145 IN. ID, 0.285 IN. OD, 0.019 IN. THK (96906) MS35333-3		EA	8								D3	68
		4406 - VENTILATING, COOLING SYSTEM												
X20 00113		FAN, AXIAL; COOLING (27315) 9227M11		EA	1								D2	
X20 00114		CLIP; FAN MOTOR MTO (27315) 232H302D1		EA	8								D2	3
X20 00115		IMPELLER, FAN, AXIAL (39595) X7600		EA	1								D2	9
P20 J0116	6105-761-8702	MOTOR, ALTERNATING CURRENT; COOLING FAN (27315) 288Z15		EA	1	*	*	*	*	*	*	3	D2	6
O 00117	5305-527-4195	NUT, PLAIN, HEXAGON; FAN SUPPORT MTO SCREW		EA	2								D2	8
O 00118	5310-811-3494	NUT, SELF-LOCKING, HEXAGON; FAN MOTOR MTO, CADMIUM PLATED, No. 10-32 THD SIZE (72962) 221042		EA	4								D2	2
X2F 00119		RESISTOR ASSEMBLY, BALLAST (27315) 9280F-1		EA	1	SEE	GRP	411					D2	1
O 00120	5305-558-3676	SCREW, MACHINE; FAN SUPPORT MTO		EA	2								D2	7
X20 00121		SPACER, SLEEVE; FAN MOTOR MTO (27315) 18P92608		EA	4								D2	5
X20 00122		SUPPORT, FAN (27315) 227U1		EA	1								D2	4

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(4) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
00123		4407 - CONTROL PANELS, HOUSING												
P20 00124	6625-012-4464	AMMETER; ALTERNATING CURRENT (03516) 612X54	A	EA	1	*	*	*	*	*	*	5	D3	69
P20 00125	6625-012-4465	AMMETER; DIRECT CURRENT (03516) 514X26	A	EA	1	*	*	*	*	*	*	5	D3	71
X2F 00126		BOARD, TERMINAL; RELAY PANEL (27315) 9279F174		EA	1								D7	28
P F 00127	5910-012-4394	CAPACITOR, FIXED, PAPER DIELECTRIC; TERMINAL BOARD (14655) P.JX6S2		EA	1	*	2	2	*	2	2	20	D7	29
X20 00128	5935-557-1116	CAP, PLUG; WATER AND GAS CONNECTION (99017) 6X		EA	4								D3	41
X20 00129		DOOR ASSEMBLY, TERMINAL (27315) 279425502		EA	1								D3	58
X20 00130	5340-266-0759	BUMPER, RUBBER (70485) 829		EA	2									
X1 00131		DOOR, TERMINAL (27315) 279F160		EA	1									
O 00132	4730-277-5553	ELBOW, PIPE; SOLENOID VALVE, BRASS OR BRONZE, ONE END MALE, OTHER END FEMALE, 1/4-18 THD SIZE (70411) 616L		EA	4								D3	43
X20 00133		FILTER ASSEMBLY, WATER (27315) 216421	B	EA	1								D4	8
X20 00134		FILTER; WATER (80721) 86002	B	EA	1								D4	10
X20 00135		NIPPLE, PIPE (27315) 2419W038	B	EA	1								D4	9
X20 00136		REDUCER, PIPE; WATER CONNECTION (27315) 24422	B	EA	1								D4	11
X20 00137		GROMMET, PLASTIC (27315) 287231013	B	EA	1								D9	2
X20 00138		HANDLE, SWITCH; RANGE AND SELECTOR (27315) 206F3D4		EA	2								D3	60
X2F 00139		INSULATOR, PLATE; TERMINAL BOARD (27315) 2794385		EA	1								D7	27
M F 00140		LEAD, ELECTRICAL; 3RM-47 TO 2REC-56 (27315) 279F27604 MANUFACTURE FROM:	A	EA	1									
P F 00141	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG (10 IN. REQUIRED)	A	FT				SEE GRP 9501						
F 00142	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00143		LEAD, ELECTRICAL; 59-49 TO 59-52 (27315) 279F32007 MANUFACTURE FROM:	A	EA	1									
P F 00144	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG (2 IN. REQUIRED)	A	FT				SEE GRP 9501						
F 00145	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
M F 00146		LEAD, ELECTRICAL: 59-46 to J3-54 AND J3-53 to 59-50 (27315) 279F27602 MANUFACTURE FROM:	A	EA	2									
P F 00147	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (6 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE GRP	5501							
F 00148	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	4									
M F 00149		LEAD, ELECTRICAL: 2REC-58 to 54-82 (27315) 279F27607 MANUFACTURE FROM:	A	EA	1									
P F 00150	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED)	A	FT		SEE GRP	5501							
F 00151	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00152		LEAD, ELECTRICAL: 59-51 to 54-83, 55-141 to 55-143, 55-140 to 55-138, 57-118 to 57-120 (27315) 279F27601 MANUFACTURE FROM:	A	EA	4									
P F 00153	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE GRP	5501							
F 00154	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	8									
M F 00155		LEAD, ELECTRICAL: 55-136 to 1RH-134 (27315) 279F27603 MANUFACTURE FROM:	A	EA	1									
P F 00156	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (89110) 41274 (8 IN. REQUIRED)	A	FT		SEE GRP	5501							
F 00157	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00158		LEAD, ELECTRICAL: 51-41 to M-131, 51-42 to M-129 (27315) 279F2760123 MANUFACTURE FROM:	A	EA	2									
P F 00159	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (3 FT 6 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE GRP	5501							
F 00160	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
F 00161	5940-518-9382	TERMINAL, LUG (59730) B14-14	A	EA	2									
M F 00162		LEAD, ELECTRICAL: S-143 to TB1-C4, 51-44 to TB1-C1 (27315) 279F276015 MANUFACTURE FROM:	A	EA	2									
P F 00163	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (3 FT 6 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE GRP	5501							
F 00164	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	4									
M F 00165		LEAD, ELECTRICAL: J3-55 to 2REC-58 (27315) 279F27608 MANUFACTURE FROM:	A	EA	1									
P F 00166	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED)	A	FT		SEE GRP	5501							

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00167	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00168		LEAD, ELECTRICAL: F-177 to J5-94 (27315) 279F276074 MANUFACTURE FROM:	A	EA	1									
P F 00169	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (6 IN. REQUIRED)	A	FT		SEE GRP	9501							
F 00170	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1									
X2F 00171		TERMINAL, LUG (89110) 41332	A	EA	1									
M F 00172		LEAD, ELECTRICAL: ITR-104 to 6CR-109 (27315) 279F27605 MANUFACTURE FROM:	A	EA	1									
P F 00173	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED)	A	FT		SEE GRP	9501							
F 00174	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00175		LEAD, ELECTRICAL: J1-202 to TB2-21 (27315) 279F276058 MANUFACTURE FROM:	A	EA	2									
P F 00176	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (10 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE GRP	9501							
F 00177	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
F 00178	5940-050-7095	TERMINAL, LUG (89110) 41330	A	EA	2									
M F 00179		LEAD, ELECTRICAL: ITR-104 to TB2-28 (27315) 279F276013 MANUFACTURE FROM:	A	EA	1									
P F 00180	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG	A	FT		SEE GRP	9501							
F 00181	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00182		LEAD, ELECTRICAL: S5-139 to TB2-32, 2CR-107 to 6CR-108, 5CR-103 to 6CR-99, 4CR-219 to 2CR-128 (27315) 279F27602 MANUFACTURE FROM:	A	EA	4									
P F 00183	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (6 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE GRP	9501							
F 00184	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	8									
M F 00185		LEAD, ELECTRICAL: 3RH-46 to 4RES-64, 54-175 to TB2-38, S7-118 to TB2-37, 2CR-171 to 6CR-98, 3REC-239 to TB2-25 (27315) 279F27601 MANUFACTURE FROM:	A	EA	5									
P F 00186	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE GRP	9501							

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION		
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)	
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.	
F 00187	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	10										
M F 00188		LEAD, ELECTRICAL: 4RES-64 to TB2-34, 2REC-59 to TB2-23, S9-52 to TB2-23 (27315) 279F27606 MANUFACTURE FROM:	A	EA	3										
P F 00189	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (14 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501							
F 00190	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	6										
M F 00191		LEAD, ELECTRICAL: 4RES-65 to TB2-39, S7-124 to 2CR-127, S5-141 to TB2-26, 1RH-133 to TB2-33, 3REC-241 to TB2-22, 3REC-242 to TB2-21 (27315) 279F27603 MANUFACTURE FROM:	A	EA	6										
P F 00192	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (8 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501							
F 00193	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	12										
M F 00194		LEAD, ELECTRICAL: 2REC-57 to 3RH-45, J4-89 to TB2-38, 2C-160 to TB2-26, 1TR-105 to 2CR-106 (27315) 279F27605 MANUFACTURE FROM:	A	EA	4										
P F 00195	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501							
F 00196	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	8										
M F 00197		LEAD, ELECTRICAL: 2REC-56 to 3RH-47, J4-88 to TB2-40, 2C-159 to TB2-25, S7-180 to TB2-29, 5CR-126 to 4CR-220 (27315) 279F27604 MANUFACTURE FROM:	A	EA	5										
P F 00198	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (10 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501							
F 00199	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	10										
M F 00200		LEAD, ELECTRICAL: S7-119 to TB2-27, 1CR-161 to TB2-27, 1CR-161 to TB2-21, 1CR-162 to TB2-22, S4-174 to TB2-30, 3RH-45 to 4RES-65 (27315) 279F27607 MANUFACTURE FROM:	A	EA	5										
P F 00201	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501							
F 00202	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	10										
M F 00203		LEAD, ELECTRICAL: 1TR-110 to 1TR-104 (27315) 279F2760181 MANUFACTURE FROM:	A	EA	1										
P F 00204	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (2 IN. REQUIRED)	A	FT		SEE	GRP	9501							

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
					(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
					1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00205	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2								
M F 00206		LEAD, ELECTRICAL: 2CR-171 to TB2-29, 5CR-103 to TB2-28, 2CR-107 to TB2-37 (27315) 279F276010 MANUFACTURE FROM:	A	EA	3								
P F 00207	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (2 IN. REQUIRED)	A	FT		SEE	GRP	9501					
F 00208	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	6								
M F 00209		LEAD, ELECTRICAL: 55-135 to 4CR-164 (27315) 279F276012 MANUFACTURE FROM:	A	EA	1								
P F 00210	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (28 IN. REQUIRED)	A	FT		SEE	GRP	9501					
F 00211	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2								
M F 00212		LEAD, ELECTRICAL: J5-95 to TB2-28 (27315) 279F27608 MANUFACTURE FROM:	A	EA	1								
P F 00213	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (18 IN. REQUIRED)	A	FT		SEE	GRP	9501					
F 00214	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2								
M F 00215		LEAD, ELECTRICAL: F-176 to TB2-27 (27315) 279F276082 MANUFACTURE FROM:	A	EA	1								
P F 00216	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (22 IN. REQUIRED)	A	FT		SEE	GRP	9501					
F 00217	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1								
F 00218	5940-050-7095	TERMINAL, LUG (89110) 41330	A	EA	1								
M F 00219		LEAD, ELECTRICAL: M-96 to TB2-27 (27315) 279F276070 MANUFACTURE FROM:	A	EA	1								
P F 00220	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 FT REQUIRED)	A	FT		SEE	GRP	9501					
F 00221	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1								
F 00222	5940-050-7095	TERMINAL, LUG (89110) 41330	A	EA	1								
M F 00223		LEAD, ELECTRICAL: TB1-2 to TB2-32, TB1-1 to TB2-33 (27315) 279F276016 MANUFACTURE FROM:	A	EA	2								
P F 00224	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 FT REQUIRED FOR EACH LEAD)	A	FT		SEE	GRP	9501					
F 00225	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	4								
M F 00226		LEAD, ELECTRICAL: 4CR-163 to 3T-342 (27315) 279F276027 MANUFACTURE FROM:	A	EA	1								
P F 00227	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED)	A	FT		SEE	GRP	9501					

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00228	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1									
M F 00229		LEAD, ELECTRICAL: ICR-113 TO 55-135, ICR-112 TO 5-137, ICR81 TO 54-84, 2CR-170 TO TB2-27 (27315) 279F27609 MANUFACTURE FROM:	A	EA	4									
P F 00230	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE GRP 9501								
F 00231	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	8									
M F 00232		LEAD, ELECTRICAL: 1TR-111 TO TB2-35 (27315) 279F276014 MANUFACTURE FROM:	A	EA	1									
P F 00234	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE GRP 9501								
F 00235	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00236		LEAD, ELECTRICAL: 5CR-86 TO TB2-30 (27315) 279F32008 MANUFACTURE FROM:	A	EA	1									
P F 00237	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (25 IN. REQUIRED)	A	FT		SEE GRP 9501								
F 00238	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00239		LEAD, ELECTRICAL: TB2-27 TO TB2-27, TB2-28 TO TB2-28, TB2-38 TO TB2-38, TB2-40 TO TB2-40 (27315) 279F32007 MANUFACTURE FROM:	A	EA	4									
P F 00240	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (2 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE GRP 9501								
F 00241	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	8									
M F 00242		LEAD, ELECTRICAL: 3REC-240 TO TB2-26 (27315) 279F32009 MANUFACTURE FROM:	A	EA	1									
P F 00243	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (3 IN. REQUIRED FOR EACH LEAD)	A	FT		SEE GRP 9501								
F 00244	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00245		LEAD, ELECTRICAL: 5CR-125 TO S7-123 (27315) 279F320027 MANUFACTURE FROM:	A	EA	1									
P F 00246	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (30 IN. REQUIRED)	A	FT		SEE GRP 9501								
F 00247	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CHNGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)	(a)	(b)	
						1-20	21-50	51-100	1-20	21-50	51-100	FIG. NO.	ITEM NO.	
M F 00248		LEAD, ELETRIAL: 5R-102 to S7-122 (27315) 279F276D13 MANUFACTURE FROM:	A	EA	1									
P F 00249	6145-192-3268	WIRE, ELETRIAL: No. 14 AWG (32 IN. REQUIRED)	A	FT		SEE	GRP	5501						
F 00250	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00251		LEAD, ELECTRICAL: 2TR-187 to TB2-29 (27315) 279F320D12 MANUFACTURE FROM:	A	EA	1									
P F 00252	6145-192-3268	WIRE, ELETRIAL: No. 14 AWG (32 IN. REQUIRED)	A	FT		SEE	GRP	5501						
F 00253	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00254		LEAD, ELETRIAL: 2TR-188 to 5R-102 (27315) 279F320D13 MANUFACTURE FROM:	A	EA	1									
P F 00255	6145-192-3268	WIRE, ELETRIAL: No. 14 AWG (14 IN. REQUIRED)	A	FT		SEE	GRP	5501						
F 00256	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00257		LEAD, ELETRIAL: 2TR-183 to TB2-27 (27315) 279F320D14 MANUFACTURE FROM:	A	EA	1									
P F 00258	6145-192-3268	WIRE, ELETRIAL: No. 14 AWG (32 IN. REQUIRED)	A	FT		SEE	GRP	5501						
F 00259	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00260		LEAD, ELETRIAL: 2TR-184 to 3CR-185 (27315) 279F320D15 MANUFACTURE FROM:	A	EA	1									
P F 00261	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (22 IN. REQUIRED)	A	FT		SEE	GRP	5501						
F 00262	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00263		LEAD, ELECTRICAL: 5CR-87 to TB2-40, 3CR-186 to S7-121 (27315) 279F320D16 MANUFACTURE FROM:	A	EA	2									
P F 00264	6145-192-3268	WIRE, ELETRIAL: No. 14 AWG (26 IN. REQUIRED)	A	FT		SEE	GRP	5501						
F 00265	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	4									
M F 00266		LEAD, ELECTRICAL: 4R-219 to TB2-38 (27315) 279F320D17 MANUFACTURE FROM:	A	EA	1									
P F 00267	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (24 IN. REQUIRED)	A	FT		SEE	GRP	5501						
F 00268	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00269		LEAD, ELECTRICAL: 4CR-220 to TB2-40 (27315) 279F320D18 MANUFACTURE FROM:	A	EA	1									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
P F 00270	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (24 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00271	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00272		LEAD, ELECTRICAL: 4CR-197 to J2-199 (27315) 279F276063 MANUFACTURE FROM:	A	EA	1									
P F 00273	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00274	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1									
F 00275	5940-050-7095	TERMINAL, LUG (89110) 41330	A	EA	1									
M F 00276		LEAD, ELECTRICAL: 4CR-198 to J2-200 (27315) 279F276064 MANUFACTURE FROM:	A	EA	1									
P F 00277	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (22 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00278	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	1									
F 00279	5940-050-7095	TERMINAL, LUG (89110) 41330	A	EA	1									
M F 00280		LEAD, ELECTRICAL: 3CR-203 to 1CR-161 (27315) 279F320021 MANUFACTURE FROM:	A	EA	1									
P F 00281	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (8 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00282	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00283		LEAD, ELECTRICAL: 3CR-204 to 1CR-162 (27315) 279F320022 MANUFACTURE FROM:	A	EA	1									
P F 00284	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (8 IN. REQUIRED)	A	FT		SEE	GRP	9501						
F 00285	5940-874-9033	TERMINAL, LUG (89110) 41274	A	EA	2									
M F 00286		LEAD, ELECTRICAL: 2REC-57 to TB2-39 (27315) 279F27605 MANUFACTURE FROM:	B	EA	1									
P F 00287	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00288	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
M F 00289		LEAD, ELECTRICAL: 2CR-128 to TB2-38, 5CR-87 to TBL-40 J1-212 to P2-11, J1-215 to P2-12 (27315) 279F276010 MANUFACTURE FROM:	B	EA	4									
P F 00290	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (22 IN. REQUIRED)	B	FT		SEE	GRP	9501						
F 00291	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	8									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
M F 00292		LEAD, ELECTRICAL: 55-140 to 3T-3M1 (27315) 279F27608 MANUFACTURE FROM:	B	EA	1									
P F 00293	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (18 IN. REQUIRED)	B	FT		SEE GRP 9501								
F 00294	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
F 00295		TERMINAL, LUG (89110) 41333	B	EA	1									
M F 00296		LEAD, ELECTRICAL: 4CR-179 to TB2-28, 5CR-125 to 57-28 5CR-126 to ITR-111, 42-55 to 2REC-58 (27315) 279F27608 MANUFACTURE FROM:	B	EA	4									
P F 00297	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (18 IN. REQUIRED)	B	FT		SEE GRP 9501								
E 00298	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	8									
M F 00299		LEAD, ELECTRICAL: 1CR-20 to S4-174, 1TT-192 to 2TT-193, 2TT-194 to 3TT-195 (27315) 279F27607 MANUFACTURE FROM:	B	EA	3									
P F 00300	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED)	B	FT		SEE GRP 9501								
F 00301	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	6									
M F 00302		LEAD, ELECTRICAL: 2CR-107 to 9CR-108, 2TR-187 to 5CR-184, J3-53 to 59-50 (27315) 279F27602 MANUFACTURE FROM:	B	EA	3									
P F 00303	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (6 IN. REQUIRED)	B	FT		SEE GRP 9501								
F 00304	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	6									
M F 00305		LEAD, ELECTRICAL: 2CR-171 to 9CR-98, S4-175 to S4-85, 57-118 to 57-120 (27315) 279F27601 MANUFACTURE FROM:	B	EA	3									
P F 00306	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 IN. REQUIRED)	B	FT		SEE GRP 9501								
F 00307	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	6									
M F 00308		LEAD, ELECTRICAL: 2TR-103 to 9CR-99, TB2-28, 2C-159 to TB2-25, 58-14 to M-131, DB-11 to 1OCR-16 (27315) 279F27604 MANUFACTURE FROM:	B	EA	6									
P F 00309	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (10 IN. REQUIRED)	B	FT		SEE GRP 9501								
F 00310	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	12									
M F 00311		LEAD, ELECTRICAL: 9CR-109 to ITR-110 (27315) 279F2760181 MANUFACTURE FROM:	B	EA	1									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CHTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
P F 00312	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG	B	FT		SEE GRP 5501								
F 00313	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
M F 00314		LEAD, ELECTRICAL: 2TR-102 to S7-122 (27315) 279F276018 MANUFACTURE FROM:	B	EA	1									
P F 00315	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG (72 IN. REQUIRED)	B	FT		SEE GRP 5501								
F 00316	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
M F 00317		LEAD, ELECTRICAL: 2TR-186 to TB2-27, 5CR-185 to TB2-28, 6CR-201 to P2-6, 6CR-200 to P2-5, 3CR-204 to P2-1, 3CR-205 to 7TR-206, 7TR-207 to P2-2, 7TR-208 to P2-3, 7TR-209 to P2-4, 6CR-210 to P2-8, 6CR-211 to P2-7, 3CR-214 to P2-12 (27315) 279F276012 MANUFACTURE FROM:	B	EA	12									
P F 00318	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG (28 IN. REQUIRED)	B	FT		SEE GRP 5501								
F 00319	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	24									
M F 00320		LEAD, ELECTRICAL: 3CR-213 to P2-11 (27315) 279F276011 MANUFACTURE FROM:	B	EA	1									
P F 00321	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG (24 IN. REQUIRED)	B	FT		SEE GRP 5501								
F 00322	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
M F 00323		LEAD, ELECTRICAL: 6CR-216 to J2-218 (27315) 279F276063 MANUFACTURE FROM:	B	EA	1									
P F 00324	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG (20 IN. REQUIRED)	B	FT		SEE GRP 5501								
F 00325	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
F 00326	5940-050-7095	TERMINAL, LUG (89110) 41330	B	EA	1									
M F 00327		LEAD, ELECTRICAL: 6CR-217 to J2-219 (27315) 279F276064 MANUFACTURE FROM:	B	EA	1									
P F 00328	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG (22 IN. REQUIRED)	B	FT		SEE GRP 5501								
F 00329	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
F 00330	5940-050-7095	TERMINAL, LUG (89110) 41330	B	EA	1									
M F 00331		LEAD, ELECTRICAL: S3-9 to TB2-26, S3-8 to TBL-25 (27315) 279F2760133 MANUFACTURE FROM:	B	EA	2									
P F 00332	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG (16 IN. REQUIRED)	B	FT		SEE GRP 5501								

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00333	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
F 00334	5940-156-1510	TERMINAL, LUG (89110) 34125	B	EA	2									
M F 00335		LEAD, ELECTRICAL: 58-11 to TB2-27, S1-44 to TB1-1, S1-43 to TB1-4 (27315) 279F276015 MANUFACTURE FROM:	B	EA	3									
P F 00336	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (42 IN. REQUIRED)	B	FT		SEE	GRP	5501						
F 00337	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	6									
M F 00338		LEAD, ELECTRICAL: F-177 to J5-94 (27315) 279F276074 MANUFACTURE FROM:	B	EA	1									
P F 00339	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (6 IN. REQUIRED)	B	FT		SEE	GRP	5501						
F 00340	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
F 00341		TERMINAL, LUG (89110) 41332	B	EA	1									
M F 00342		LEAD, ELECTRICAL: TB2-27 to J4-1, TB2-27 to J4-5 (27315) 279F276030 MANUFACTURE FROM:	B	EA	2									
P F 00343	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (28 IN. REQUIRED)	B	FT		SEE	GRP	5501						
F 00344	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
M F 00345		LEAD, ELECTRICAL: TB2-29 to J4-3, S7-121 to J4-2, S7-122 to J4-4 (27315) 279F276028 MANUFACTURE FROM:	B	EA	3									
P F 00346	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (22 IN. REQUIRED)	B	FT		SEE	GRP	5501						
F 00347	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	3									
M F 00348		LEAD, ELECTRICAL: TB2-38 to J4-7 (27315) 279F276027 MANUFACTURE FROM:	B	EA	1									
P F 00349	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED)	B	FT		SEE	GRP	5501						
F 00350	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
M F 00351		LEAD, ELECTRICAL: TB2-40 to J4-8 (27315) 279F276030 MANUFACTURE FROM:	B	EA	1									
P F 00352	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (28 IN. REQUIRED)	B	FT		SEE	GRP	5501						
F 00353	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
M F 00354		LEAD, ELECTRICAL: TB2-21 TO J4-11, TB2-22 TO J4-12 (27315) 279F276058 MANUFACTURE FROM:	B	EA	2									
P F 00355	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (10 IN. REQUIRED)	B	FT		SEE GRP 9501								
F 00356	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	2									
F 00357	5940-050-7095	TERMINAL, LUG (89110) 41330	B	EA	2									
M F 00358		LEAD, ELECTRICAL: 4CR-178 TO J4-6 (27315) 279F276032 MANUFACTURE FROM:	B	EA	1									
P F 00359	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (36 IN. REQUIRED)	B	FT		SEE GRP 9501								
F 00360	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
M F 00361		LEAD, ELECTRICAL: S1-42 TO M-129 (27315) 279F2760123 MANUFACTURE FROM:	B	EA	1									
P F 00362	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (42 IN. REQUIRED)	B	FT		SEE GRP 9501								
F 00363	5940-874-9033	TERMINAL, LUG (89110) 41274	B	EA	1									
F 00364		TERMINAL, LUG (89110) 34124	B	EA	1									
F 00365	5310-202-8549	NUT, PLAIN, HEXAGON: PANEL MTG SCREW (78553) C1793-1024		EA	2								D7	17
F 00366	5310-202-8549	NUT, SHEET SPRING: TERMINAL BOARD MTG (78553) C1793-1024		EA	4								D7	15
X2F 00367		PANEL, CONTROL (27315) 279F321D1	A	EA	1								D3	73
X2F 00368		PANEL, CONTROL (27315) 279F327D4	B	EA	1								D4	13
X2F 00369		PANEL, RELAY (27315) 279E203		EA	1								D7	6
O 00370	5315-619-0212	PIN, SPRING: HANDLE MTG, RANGE AND SELECTOR SWITCH (72962) 59-040-187-1000		EA	2								D3	59
X20 00371		REDUCER, PIPE: GAS CONNECTION (27315) 244Z3		EA	2								D3	42
X20 00372		REDUCER, PIPE: WATER CONNECTION (27315) 244Z2		EA	2								D3	45
F 00373	5305-042-0507	SCREW, ASSEMBLED WASHER: TERMINAL BOARD MTG (78189) 1210-61-16		EA	4								D7	30
F 00374	5305-042-0479	SCREW, MACHINE: PANEL MTG (08285) M535305-9		EA	2								D7	16
O 00375	5305-043-6663	SCREW, MACHINE: RECEPTACLE MTG, CADMIUM OR ZINC CHROMATE, 6-32 TND SIZE, 3/8 IN. LG (96906) M835225-28		EA	8								D3	9

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION		
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)	
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.	
F 00376	5940-874-9033	TERMINAL, QUICK DISCONNECT; SOLENOID VALVE LEADS (89110) 41274	A	EA	4										
P20 00377	6625-012-4470	VOLTMETER; ALTERNATING CURRENT (03516) 612X80	A	EA	1	*	*	*	*	*	*	5	D3	70	
P20 00378	6625-012-4471	VOLTMETER; DIRECT CURRENT (03516) 518X10		EA	1	*	*	*	*	*	*	5	D3	72	
00379		4408 - CONNECTING DEVICES													
X20 00380	5940-012-4427	BOARD, TERMINAL; GROUND AND ELECTRODE, CONTROL PANEL (27315) 9279421-5		EA	1								D3		
X1 00381		BOARD, TERMINAL (27315) 2794230		EA	1								D3	47	
O 00382	5310-202-8552	NUT, PLAIN, HEXAGON; TERMINAL SCREW (96906) M835690-802		EA	2								D3	46	
O 00383	5310-655-9662	NUT, PLAIN, HEXAGON; TERMINAL SCREW (96906) M835691-802		EA	2								D3	75	
O 00384	5305-543-4891	SCREW, CAP, HEXAGON HEAD; TERMINAL (96906) M835291-114		EA	2								D3	48	
X2F 00385		BUS BAR; CONTROL PANEL (27315) 279F164094		EA	1								D3	31	
X2F 00386		BUS BAR; CONTROL PANEL (27315) 279F164091	A	EA	1								D3	32	
X2F 00387		BUS BAR; CONTROL PANEL (27315) 279F16404		EA	1								D3	33	
X2F 00388		BUS BAR; CONTROL PANEL (27315) 279F28004	A	EA	1								D3	36	
X2F 00389		BUS BAR; CONTROL PANEL (27315) 279F164022		EA	1								D3	37	
X2F 00390		BUS BAR; LINK, TORCH ADAPTER (27315) 2794375	B	EA	1								D4	12	
X2F 00391		BUS BAR; RECTIFIER (27315) 279F163049		EA	1								D12	29	
X2F 00392		BUS BAR; RECTIFIER (27315) 279F164092		EA	1								D12	33	
X2F 00393		BUS BAR; RECTIFIER (27315) 279F164095		EA	1								D12	34	
X2F 00394		BUS BAR; RECTIFIER SHUNT (27315) 279F166066		EA	1								D12	31	
X20 00395		CABLE ASSEMBLY (27315) 9279F243D13	B	EA	1								D4	15	
X20 00396		CABLE ASSEMBLY (27315) 9279F243D14	B	EA	1								D4	14	
P20 00397	5935-187-0727	CONNECTOR PLUG, ELECTRICAL; CONTACTOR CONTROL (74545) 7484	A	EA	1	*	*	*	*	*	*	5	D3	13	
P20 00398	5935-187-0727	CONNECTOR, PLUG, ELECTRICAL; CONTACTOR CONTROL (74545) 7484	B	EA	1	*	*	*	*	*	*	5	D9	8	
PO 00399	5935-149-4181	CONNECTOR, PLUG, ELECTRICAL; OUTPUT SIGNAL (81348) WC596STYLEC21		EA	1	*	*	*	*	*	*	5	D3	8	

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION		
						(a)	(b)	(c)	(a)	(b)	(c)		(a) FIG. NO.	(b) ITEM NO.	
						1-20	21-50	51-100	1-20	21-50	51-100				
P20 00400	5935-149-4181	CONNECTOR, PLUG, ELECTRICAL: OUTPUT SIGNAL (81348) WC596STYLEC21	B	EA	1	*	*	*	*	*	*	5	D9	7	
P20 00401	5935-891-2671	CONNECTOR, PLUG, ELECTRICAL: REMOTE CONTACTOR CONTROL (81348) WC596STYLEN21	A	EA	1	*	*	*	*	*	*	5	D3	74	
P20 00402	5935-892-9806	CONNECTOR, PLUG, ELECTRICAL: WELD TIMER CINCH JONES (71785) P1-241258	B	EA	1	*	*	*	*	*	*	5	D9	3	
P20 00403	5935-012-4416	CONNECTOR, RECEPTACLE, ELECTRICAL: AXILLARY AC POWER (81091) 5242T		EA	1	*	*	*	*	*	*	5	D3	40	
P20 00404	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287244	A	EA	1	*	*	*	*	*	*	5	D3	14	
P20 00405	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287244	B	EA	1	*	*	*	*	*	*	5	D9	9	
P20 00406	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287232		EA	1	*	*	*	*	*	*	5	D3	10	
P20 00407	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287232	B	EA	1	*	*	*	*	*	*	5	D9	6	
P20 00408	5935-893-0736	CONNECTOR, RECEPTACLE, ELECTRICAL: REMOTE CONTACTOR CONTROL (77166) 7250GT		EA	1	*	*	*	*	*	*	5	D3	25	
P20 00409	5935-017-9590	CONNECTOR, RECEPTACLE, ELECTRICAL: REMOTE OUTPUT CONTROL (77166) 7410GT		EA	1	*	*	*	*	*	*	5	D3	24	
P20 00410	5935-892-9814	CONNECTOR, RECEPTACLE, ELECTRICAL: WELD TIMER (71785) S1-2412CCT	B	EA	1	*	*	*	*	*	*	5	D4	23	
X2F 00411		SWITCH ASSEMBLY, FOOT: WELDER (27315) 2100E186	B	EA	1									D6	1
P2F 00412	3431-851-4665	CABLE ASSEMBLY, ELECTRICAL: FOOT RHEOSTAT (27315) 279F109031	B	EA	1	*	*	*	*	*	*	5	D6	5	
P2F 00413	3431-891-0972	CABLE ASSEMBLY, ELECTRICAL: FOOT SWITCH (27315) 279F119018	B	EA	1	*	*	*	*	*	*	5	D6	3	
P20 00414	5935-581-4099	CONNECTOR, PLUG, ELECTRICAL (81348) WC596P22	B	EA	1	*	*	*	*	*	*	5	D6	2	
P20 00415	5935-891-2671	CONNECTOR, PLUG, ELECTRICAL (81348) WC596STYLEN21	B	EA	1	*	*	*	*	*	*	5	D6	4	
P2F 00416	5930-892-9545	RHEOSTAT: FOOT (15605) XPM6	B	EA	1	*	*	*	*	*	*	5	D6	6	
X2F 00417		SWITCH, SENSITIVE (27315) 2792151	B	EA	1									D6	7
X2F 00418		HARDWARE, TERMINAL BOARD (27315) 279M388		EA	1										
P2F 00419	5940-012-4429	LINK, TERMINAL CONNECTING (04009) 39601-33		EA	2	*	*	*	*	*	*	5	D11	21	
F 00420	5310-803-1833	NUT, PLAIN, HEXAGON: TERMINAL HTB SCREW, BRASS, No. 6-32 THD SIZE (96906) MS35649-65		EA	13									D11	22

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00421	5305-550-9349	SCREW, MACHINE: TERMINAL AND LINK MTG, BRASS, No. 6-32 THD SIZE, 5/8 IN. LG (96906) M835229-31	EA	6									D11	15
F 00422	5305-550-9345	SCREW, MACHINE: TERMINAL MTG, NICKLE PLATED, No. 6-32 THD SIZE, 1/4 IN. LG (96906) M835229-26	EA	1									D11	23
X2F 00423		TERMINAL, QUICK DISCONNECT (70611) 3000M131	EA	5									D11	17
X2F 00424		TERMINAL, QUICK DISCONNECT (70611) 3000C25-3	EA	1									D11	26
F 00425	5310-656-0026	WASHER, FLAT: TERMINAL AND LINK MTG SCREW, BRASS, No. 5/32 IN. ID, 5/16 IN. OD, 3/64 IN. THK (96906) M815795-605	EA	6									D11	16
X2F 00426		LEAD ASSEMBLY, SHUNT (27315) 9279H356	EA	1									D12	32
M F 00427		LEAD, ELECTRICAL: SX67 TO SX70, SX68 TO SX71, SX69 TO SX72 (27315) 279F276043 MANUFACTURE FROM:	EA	3										
P F 00428	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED FOR EACH LEAD)	FT			SEE GRP	9501							
M F 00429		LEAD, ELECTRICAL: 5C-76 TO 6C-78, 5C-77 TO 6C-79 (27315) 279F27601 MANUFACTURE FROM:	EA	2										
P F 00430	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (4 IN. REQUIRED FOR EACH LEAD)	FT			SEE GRP	9501							
F 00431	5940-874-9033	TERMINAL, LUG (89110) 41274	EA	2										
M F 00432		LEAD, ELECTRICAL: 5C76 TO 1T-121 (27315) 279F276023 MANUFACTURE FROM:	EA	1										
P F 00433	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED)	FT			SEE GRP	9501							
F 00434	5940-874-9033	TERMINAL, LUG (89110) 41274	EA	1										
M F 00435		LEAD, ELECTRICAL: 6C-79 TO 1T-122, SX-73 TO TB2-34, SX-66 TO TB2-39 (27315) 279F276027 MANUFACTURE FROM:	EA	3										
P F 00436	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (20 IN. REQUIRED FOR EACH LEAD)	FT			SEE GRP	9501							
F 00437	5940-874-9033	TERMINAL, LUG (89110) 41274	EA	3										
M F 00438		LEAD, ELECTRICAL: 1CR-80 TO 1T-1Y1 (27315) 279F276033 MANUFACTURE FROM:	EA	1										
P F 00439	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (3 FT 6 IN. REQUIRED)	FT			SEE GRP	9501							
F 00440	5940-874-9033	TERMINAL, LUG (89110) 41274	EA	1										

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
M F 00441		LEAD, ELECTRICAL: 54-85 TO 1T-1Y2 (27315) 279F276030 MANUFACTURE FROM:		EA	1									
P F 00442	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (28 IN. REQUIRED)		FT		SEE GRP	9501							
F 00443	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	1									
M F 00444		LEAD, ELECTRICAL: 1AM-207 TO CT-233 (27315) 279F530310 MANUFACTURE FROM:		EA	1									
P F 00445	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (8 IN. REQUIRED)		FT		SEE GRP	9501							
F 00446	5940-518-9382	TERMINAL, LUG (59730) B14-14		EA	1									
M F 00447		LEAD, ELECTRICAL: 2VM TO 53-7, 2VM-210 TO 53-5 (27315) 279F530313 MANUFACTURE FROM:		EA	2									
P F 00448	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED FOR EACH LEAD)		FT		SEE GRP	9501							
F 00449	5940-518-9382	TERMINAL, LUG (59730) B14-14		EA	2									
M F 00450		LEAD, ELECTRICAL: 1VM-213 TO 53-3, 1VM-214 TO 53-12 (27315) 279F530315 MANUFACTURE FROM:		EA	2									
P F 00451	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (24 IN. REQUIRED FOR EACH LEAD)		FT		SEE GRP	9501							
F 00452	5940-518-9382	TERMINAL, LUG (59730) B14-14		EA	2									
M F 00453		LEAD, ELECTRICAL: 53-7 TO 2VM-209, 53-5 TO 2VM-210, 53-3 TO 1VM-213, 53-12 TO 1VM-214 (27315) 279F530492 MANUFACTURE FROM:		EA	4									
P F 00454	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED FOR EACH LEAD)		FT		SEE GRP	9501							
F 00455	5940-156-1510	TERMINAL, LUG (89110) 34125		EA	4									
M F 00456	6150-190-0997	LEAD, ELECTRICAL: 53-8 TO 2C-160 (27315) 279F2760131 MANUFACTURE FROM:		EA	1									
P F 00457	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED)		FT		SEE GRP	9501							
F 00458	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	1									
M F 00459		LEAD, ELECTRICAL: 255-194 TO 3TT-195 (27315) 279F27607 MANUFACTURE FROM:		EA	1									
P F 00460	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED)		FT		SEE GRP	9501							
F 00461	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	2									
M F 00462		LEAD, ELECTRICAL: 3TT-196 TO TB2-29 (27315) 279F276013 MANUFACTURE FROM:		EA	1									
P F 00463	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (32 IN. REQUIRED)		FT		SEE GRP	9501							

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(8) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00464	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	2									
M F 00465		LEAD, ELECTRICAL; M-103 TO TB-1 (27315) 279F660253 MANUFACTURE FROM:		EA	1									
P F 00466	6145-686-4396	WIRE, ELECTRICAL; No. 6 AWG (17 IN. REQUIRED)		FT		SEE GRP	9501							
F 00467	5940-050-6221	TERMINAL, LUG (59730) E71		EA	2									
M F 00468		LEAD, ELECTRICAL; M-132 TO TB1-4 (27315) 279F660254 MANUFACTURE FROM:		EA	1									
P F 00469	6145-686-4396	WIRE, ELECTRICAL; No. 6 AWG (21 IN. REQUIRED)		FT		SEE GRP	9501							
F 00470	5940-050-6221	TERMINAL, LUG (59730) E71		EA	2									
M F 00471		LEAD, ELECTRICAL; M-131 TO TB4-L1 (27315) 279F660255 MANUFACTURE FROM:		EA	1									
P F 00472	6145-686-4396	WIRE, ELECTRICAL; No. 6 AWG (35 IN. REQUIRED)		FT		SEE GRP	9501							
F 00473	5940-050-6221	TERMINAL, LUG (59730) E71		EA	2									
M F 00474		LEAD, ELECTRICAL; M-129 TO TP4-12 (27315) 279F660256 MANUFACTURE FROM:		EA	1									
P F 00475	6145-686-4396	WIRE, ELECTRICAL; No. 6 AWG (3 FT 1 IN. REQUIRED)		FT		SEE GRP	9501							
F 00476	5940-050-6221	TERMINAL, LUG (59730) E71		EA	2									
M F 00477		LEAD, ELECTRICAL (27315) 279F230066 MANUFACTURE FROM:		EA	1									
P F 00478	6150-190-0998	WIRE, ELECTRICAL; No. 0, 2646 STRANDS OF No. 34, .0063 IN. AWG (28 IN. REQUIRED)		FT		SEE GRP	9501							
F 00479		TERMINAL, LUG (89110) 36925		EA	1									
F 00480		TERMINAL, LUG (89110) 36921		EA	1									
M F 00481		LEAD, ELECTRICAL; SX-5 TO S2-1 (27315) 279F2300181 MANUFACTURE FROM:		EA	1									
P F 00482	6150-190-0998	WIRE, ELECTRICAL; No. 0, 2646 STRANDS OF No. 34, .0063 IN. AWG (52 IN. REQUIRED)		FT		SEE GRP	9501							
F 00483		TERMINAL, LUG (89110) 36922		EA	2									
X2F 00484		LEAD, ELECTRICAL; 4T-4X1 TO 53-9 (27315) 279F230081		EA	1									
X2F 00485		LEAD, ELECTRICAL; 4T-4X2 TO TB3-E1 (27315) 279F2300117		EA	1									
X2F 00486		LEAD, ELECTRICAL; SX-7 TO 18E3-229 (27315) 279F230089		EA	1									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION		
					(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)	
					1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.	
X2F 00487	6150-190-0998	LEAD, ELECTRICAL; 1RES-230 TO 93-3 (27315) 279F238-181	EA	1										
0 00488	5310-012-0622	NUT, PLAIN, HEXAGON; AXILLARY AC POWER RECEPTACLE MTS, CADMIUM OR ZINC CHROMATE, No. 8-32 THD SIZE (96906) MS35649-82	EA	2								D3	39	
0 00489	5310-543-4971	NUT, PLAIN, HEXAGON; INPUT GROUND STUD, BRASS (96906) MS35690-411	EA	2								D1	27	
0 00490	5310-013-4530	NUT, PLAIN, HEXAGON; RECEPTACLE MOUNTING (96906) MS35649-62	EA	4								D3	22	
0 00491	5310-550-0777	NUT, PLAIN, HEXAGON; TERMINAL BOARD MTS SCREW (96906) MS35690-402	EA	2								D3	49	
0 00492	5305-550-3934	SCREW, CAP, HEXAGON HEAD; INPUT GROUND STUD, BRASS, 1/4-20 THD SIZE (96906) MS35309-8	EA	1								D1	19	
0 00493	5305-531-1783	SCREW, CAP, HEXAGON HEAD; TERMINAL BOARD MTS, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 1 IN. LG (96906) MS35291-8	EA	2								D3	51	
0 00494	5305-043-6693	SCREW, MACHINE; AXILLARY AC POWER RECEPTACLE AND SOLENOID VALVE MTS, CADMIUM OR ZINC CHROMATE, No. 8-32 THD SIZE, 3/8 IN. LG (96906) MS35225-43	EA	6								D3	53	
X2F 00495	5940-230-9911	SPLICE, CONDUCTOR (89110) 34138	EA	14										
X2F 00496		SPLICE, CONDUCTOR (89110) 32445	EA	2										
X2F 00497		SPLICE, CONDUCTOR (89110) 32446	EA	1										
X2F 00498		SWITCH ASSEMBLY, FOOT; WELDER (27315) 9579429-2	A	EA	1							D5		
X2F 00499		ADAPTER, CABLE TO CONNECTOR; BASE (27315) 0915V001	A	EA	1							D5	2	
P2F 00500	3431-891-0972	CABLE ASSEMBLY, ELECTRICAL; FOOT SWITCH (27315) 279F119D18	A	EA	1	*	*	*	*	*	*	5	D5	14
P 0 00501	5935-891-2671	CONNECTOR, PLUG, ELECTRICAL; SWITCH CABLE (81348) W0596STYLE	A	EA	1	*	2	2	*	2	2	12	D5	1
X2F 00502		SWITCH, FOOT; WELDER (97918) 4141D	A	EA	1								D5	
X1 00503		BASE; FOOT SWITCH (97918) 1-475M	A	EA	1								D5	13
X1 00504		COVER, SWITCH (97918) 1-475L	A	EA	1								D5	3
0 00505	5310-013-1498	NUT, PLAIN, CAP; SWITCH COVER MTS STUD, CADMIUM OR ZINC PLATED, No. 10-32 THD SIZE (27315) 20261605	A	EA	2								D5	4
X1 00506		ROLL, CAM; FOOT SWITCH (97918) 2-475L	A	EA	1								D5	7

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100			
F 00507	5305-576-7099	SCREW, TAPPING THREAD FORMING; CAM ROLL RETAINING, CADMIUM OR ZINC PLATED, No. 4-24 THD SIZE, 5/16 IN. LG (27315) 2024004	A	EA	2								05	9
F 00508		SCREW, TAPPING, THREAD FORMING; SWITCH MTG (97918) 4-475M	A	EA	1								05	12
P F 00509	5340-012-4377	SPRING, HELICAL, COMPRESSION; COVER RETURN (97918) 7-475M	A	EA	1	*	2	2	*	2	2	12	05	10
X1 00510		STUD, CAM ROLL; FOOT SWITCH (97918) 3-475L	A	EA	1								05	8
O 00511		STUD, PLAIN; SWITCH COVER MTG (97918) 3-475M	A	EA	1								05	6
P2F 00512	5930-012-4402	SWITCH, SENSITIVE (97918) 414101	A	EA	1	*	*	*	*	*	*	5	05	11
O 00513	5310-043-2226	WASHER, LOCK; SWITCH COVER MTG STUD, CADMIUM OR ZINC PLATED, 0.194 IN. ID, 0.337 IN. OD, 0.047 IN. THK (96906) MS35338-24	A	EA	2								05	5
F 00514		TERMINAL LUG; AC EXTENSION TO RANGE SWITCH AND SELECTOR SWITCH (89110) 325202	A	EA	2									
F 00515	5940-504-5886	TERMINAL, LUG; FOOT SWITCH CABLE, COPPER, TINNED FINISH, No. 16-14 AWG FOR No. 8 STUD SIZE (89110) 34122	A	EA	4									
F 00516		TERMINAL, LUG; HIGH REACTOR TO RANGE SWITCH (89110) 325402	A	EA	1									
O 00517	5940-050-6221	TERMINAL, LUG; INPUT GROUND STUD, COPPER, TINNED, No. 6 AWG FOR 1/4 IN. BOLT SIZE (59730) E71		EA	1								D1	28
F 00518	5940-020-0116	TERMINAL, LUG; LOW REACTOR TO RANGE SWITCH, BRASS, No. 6 AWG, 5/16 IN. STUD SIZE (89110) 32466	A	EA	1									
F 00519		TERMINAL, LUG; LOW REACTOR TO RANGE SWITCH (89110) 328163	B	EA	1									
F 00520		TERMINAL, LUG; MEDIUM REACTOR RANGE SWITCH (89110) 325302	A	EA	1									
F 00521		TERMINAL, LUG; SPL LOW RANGE TO RANGE SWITCH (89110) 33459	B	EA	1									
F 00522	5940-874-9033	TERMINAL, QUICK DISCONNECT; CONTROL TRANSFORMER 2T LEADS TO TERMINAL BOARD TB2 (89110) 41274	A	EA	6									
O 00523	5310-209-5309	WASHER, LOCK; AXILLARY AC POWER RECEPTACLE AND SOLENOID VALVE MTG, CADMIUM OR ZINC CHROMATE, 0.168 IN. ID, 0.296 IN. OD, 0.40 IN. THK (96906) MS35338-23		EA	6								03	52

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(8) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
0 00524	5310-017-4916	WASHER, LOCK; INPUT GROUND STUD, CADMIUM OR ZINC PLATED, 0.262 IN. ID, 0.036 IN. THK (78189) 4014-22-00		EA	1								D1	26
0 00525	5310-011-5547	WASHER, LOCK; INPUT GROUND STUD, 0.262 IN. ID, 0.469 IN. OD, 0.025 IN. THK (96906) MS35333-6	A	EA	1								D1	20
0 00526	5310-596-7674	WASHER, LOCK; RECEPTACLE MTO (96906) MS35338-22	A	EA	4								D3	21
00527		4409 - PROTECTIVE DEVICES, ELECTRICAL												
X20 00528	5920-280-3763	ADAPTER, FUSE (08288) MS5920-02		EA	1								D3	54
X20 00529	5920-221-5689	FUSEHOLDER; CONTROL PANEL (08288) MS5920-02		EA	1								D3	38
P 0 00530	5920-280-9312	FUSE, PLUG; CONTROL PANEL (71400) 95-6-10		EA	1	*	2	2	*	2	2	12	D3	55
0 00531	5310-012-0614	NUT, PLAIN, HEXAGON; THERMOSTATIC SWITCH MTO SCREW (96906) MS35650-102		EA	3								D12	55
0 00532	5305-043-6750	SCREW, MACHINE; THERMOSTATIC SWITCH MTO (96906) MS35226-63		EA	3								D12	49
X20 00533		SWITCH ASSEMBLY, THERMOSTATIC; POWER RECTIFIER BASE (27315) 9279F291-1		EA	1								D12	
X1 00534		BASE; THERMOSTATIC SWITCH (27315) 279M113		EA	1								D12	59
X1 00535		BRACKET; SWITCH (27315) 279M195		EA	1								D12	58
M F 00536		LEAD, ELECTRICAL; 1TT-191 TO M-97 MANUFACTURE FROM:		EA	1									
P F 00537	6145-192-3268	WIRE, ELECTRICAL; No. 14 AMERICAN WIRE GAGE (5 FT 2 IN. REQUIRED)		FT			SEE GRP	5501						
F 00538	5940-050-7095	TERMINAL, LUG (89110) 41330		EA	1									
M F 00539		LEAD ELECTRICAL; 2TT-193 TO 1TT-192 (27315) 279F32003 MANUFACTURE FROM:		EA	1									
P F 00540	6145-192-3268	WIRE, ELECTRICAL; No. 14 AMERICAN WIRE GAGE (4 FT 4 IN. REQUIRED)		FT			SEE GRP	5501						
F 00541	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	1									
0 00542	5310-012-0622	NUT, PLAIN, HEXAGON; BASE AND SUPPORT MTO SCREW (96906) MS35649-82		EA	2								D12	63
0 00543	5305-043-6693	SCREW, MACHINE; BASE AND SUPPORT MTO (96906) MS35225-43		EA	2								D12	56
X1 00544		SUPPORT, THERMOSTATIC SWITCH (27315) 279M114		EA	1								D12	61
P20 00545	5930-012-4409	SWITCH, THERMOSTATIC (27315) 279291D1		EA	1	*	*	*	*	*	*	5	D12	60

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
					(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
					1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
0 00546	5310-209-5309	WASHER, LOCK; BASE AND SUPPORT MTG SCREW (96906) MS35338-23	EA	2								D12	62
X20 00547		SWITCH ASSEMBLY, THERMOSTATIC: REACTOR COIL (27315) 9279F290-2	EA	1								D12	
X1 00548		BASE; THERMOSTATIC SWITCH (27315) 279H410	EA	1								D12	45
X1 00549		BRACKET; SWITCH MTG (27315) 279H412	EA	1								D12	66
M F 00550		LEAD, ELECTRICAL; THERMOSTATIC SWITCH TO TERMINALS (27315) 279F276019 MANUFACTURE FROM:	EA	2									
P F 00551	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG (1/8 IN. REQUIRED FOR EACH LEAD)	FT		SEE GRP	9501							
F 00552	5940-874-9033	TERMINAL, LUG (89110) 41274	EA	2									
0 00553	5310-012-0622	NUT, PLAIN, HEXAGON; TERMINAL, BASE AND SUPPORT MTG SCREW (96906) MS35649-82	EA	4								D12	41
0 00554	5305-043-6693	SCREW, MACHINE; TERMINAL, BASE AND SUPPORT MTG (96906) MS35225-43	EA	4								D12	48
X1 00555		SUPPORT, THERMOSTATIC SWITCH (27315) 279H409	EA	1								D12	69
P20 00556	5930-012-4407	SWITCH, THERMOSTATIC (27315) 27929103	EA	1	*	*	2	*	*	2	6	D12	68
X2F 00557		TERMINAL, QUICK DISCONNECT (70611) 3000H362	EA	2								D12	47
0 00558	5310-209-5309	WASHER, LOCK; TERMINAL, BASE AND SUPPORT MTG SCREW (96906) MS35338-23	EA	4								D12	70
X20 00559		SWITCH ASSEMBLY, THERMOSTATIC: STABILIZING REACTOR (27315) 9279F290-1	EA	1								D12	
X1 00560		BASE; THERMOSTATIC SWITCH (27315) 279H410	EA	1								D12	67
X1 00561		BRACKET; SWITCH MTG (27315) 279H411	EA	1								D12	46
M F 00562		LEAD, ELECTRICAL; THERMOSTATIC SWITCH TO TERMINALS (27315) 279F276019 MANUFACTURE FROM:	EA	2									
P F 00563	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG (1/8 IN. REQUIRED FOR EACH LEAD)	FT		SEE GRP	9501							
F 00564	5940-874-9033	TERMINAL, LUG (89110) 41274	EA	2									
0 00565	5310-012-0622	NUT, PLAIN, HEXAGON; TERMINAL, BASE AND SUPPORT MTG SCREW, CADMIUM OR ZINC PLATED, No. 10-32 THD SIZE (96906) MS35649-82	EA	4								D12	71
0 00566	5305-043-6693	SCREW, MACHINE; TERMINAL, BASE AND SUPPORT MTG, CADMIUM OR ZINC CHROMATE, No. 10-32 THD SIZE, 1/2 IN. LG (96906) MS35225-43	EA	4								D12	64
X1 00567		SUPPORT, THERMOSTATIC SWITCH (27315) 279H409	EA	1								D12	43

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
P O 00568	5930-012-4403	SWITCH, THERMOSTATIC (27315) 279291D4		EA	1	*	*	2	*	*	2	6	D12	44
X2F 00569		TERMINAL, QUICK DISCONNECT (70611) 3000M362		EA	2								D12	65
O 00570	5310-209-5309	WASHER, LOCK: TERMINAL, BASE AND SUPPORT MTG SCREW (96906) MS35338-23		EA	4								D12	42
O 00571	5310-043-2226	WASHER, LOCK: THERMOSTATIC SWITCH MOUNTING (96906) MS35338-24		EA	3								D12	50
O 00572	5310-010-3319	WASHER, LOCK: TERMINAL BOARD MTG SCREW, 0.255 IN. ID, 0.493 IN. OD, 0.062 IN. THK (96906) MS35338-6		EA	2								D3	76
00573		4410 - SWITCHING, TIMING AND SPEED CONTROL												
X20 00574	5945-012-4430	CONTACTOR (04009) 34522U	A	EA	1								D10	14
X20 00575		CONTACTOR (12584) AGO-290650A	B	EA	1								D10	14
F 00576	5310-013-4530	NUT, PLAIN, HEXAGON: RELAY MTG SCREW (96906) MS35649-62		EA	12								D7	8
F 00577		NUT, SELF-LOCKING, HEXAGON: CONDENSOR MTG SCREW (78553) 67343-1420-4		EA	4								D11	1
O 00578		NUT, SELF-LOCKING, HEXAGON: CONTACTOR MTG (72962) 22NM02		EA	3								D10	8
O 00579	5310-274-8887	NUT, SELF-LOCKING, HEXAGON: TIMER MTG, CADMIUM OR ZINC PLATED, No. 6-32 THD SIZE (72962) 22NM62		EA	8								D3	20
P F 00580	5945-012-4436	RELAY, ARMATURE (77342) AB1341		EA	1	*	*	2	*	*	2	12	D7	2
P2F 00581	5945-012-4434	RELAY, ARMATURE (77342) AB1338		EA	3	*	*	*	*	*	*	5	D7	3
P2F 00582	5945-012-4431	RELAY, ARMATURE (77342) AB1339		EA	1	*	*	*	*	*	*	5	D7	4
P F 00583	5945-012-4437	RELAY, ARMATURE (77342) AB1337		EA	2	*	*	2	*	*	2	6	D7	5
P2F 00584	5945-012-4441	RELAY, ARMATURE (77342) AB1340		EA	1	*	*	*	*	*	*	5	D7	26
O 00585	5305-021-4602	SCREW, CAP, HEXAGON HEAD: SPARK GAP ASSEMBLY MTG, CADMIUM PLATED, 1/4-28 THD SIZE, 3/4 IN. LG (96906) MS35292-5		EA	2								D12	18
F 00586	5305-984-6194	SCREW, MACHINE: CONDENSOR MTG, CADMIUM OR ZINC CHROMATE, No. 8-32 THD SIZE, 5/8 IN. LG (96906) MS35225-46		EA	4								D11	8
O 00587	5305-043-6752	SCREW, MACHINE: CONTACTOR MTG, CADMIUM OR ZINC CHROMATE, No. 10-32 THD SIZE, 3/4 IN. LG (96906) MS35226-65	A	EA	3								D10	15

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) 30-DAY DS MAINT ALLOWANCE	(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION				
						(a)	(b)	(c)		(a)	(b)	(c)	(a)	(b)
O 00588	5305-044-5957	SCREW, MACHINE: RANGE SWITCH AND SELECTOR SWITCH MTG, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 3/8 IN. LG (96906) MS35225-77		EA	6						D3	57		
F 00589	5305-043-6663	SCREW, MACHINE: RELAY MTG (96906) MS35225-28		EA	12						D7	1		
O 00590	5305-043-6663	SCREW, MACHINE: TIMER MTG (96906) MS35225-28		EA	8						D3	3		
P O 00591	3431-012-4362	SPARK GAP ASSEMBLY (27315) 9579F81-1		EA	1	2	2	4	2	2	4	48	D12	
X1 00592		INSULATOR, GAP STUD (27315) 579F133		EA	1								D12	12
O 00593	5305-010-0111	SCREW, CAP, HEXAGON HEAD: SPARK GAP TERMINAL ASSEMBLY MTG, 1/4-20 THD SIZE, 1 1/4 IN. LG (96906) MS35289-10		EA	3								D12	8
O 00594	5310-010-3319	WASHER, LOCK: SPARK GAP TERMINAL ASSEMBLY MTG (96906) MS35338-6		EA	3								D12	9
X1 00595		TERMINAL ASSEMBLY, SPARK GAP (27315) 9279H10		EA	2								D12	10
O 00596	5305-543-4251	SCREW, MACHINE: 1/4-28 THD SIZE, 3/8 IN. LG (96906) MS35222-77		EA	2									
O 00597	5310-010-3319	WASHER, LOCK (96906) MS35338-6		EA	2									
X1 00598		TERMINAL ASSEMBLY, SPARK GAP (27315) 9279H9		EA	1								D12	11
P20 00599	5930-636-4796	SWITCH, PUSHBUTTON: LINE (27191) H2541A	B	EA	1	*	*	*	*	*	*	5	D4	5
Z2F 00600	5930-012-4400	SWITCH, ROTARY: RANGE (27315) 2100F76		EA	1	*	*	*	*	*	*	5	D3	34
X1 00601		BLADE, ELECTRICAL SWITCH (27315) 279H247		EA	4									
X1 00602		CONTACT, ELECTRICAL (27315) 279H245		EA	3									
X1 00603		CONTACT, ELECTRICAL (27315) 279H246		EA	3									
X1 00604		INSULATOR, PLATE (27315) 279H244		EA	13									
X1 00605		INSULATOR, WASHER (27315) 279H243		EA	6									
F 00606	5310-202-8551	NUT, PLAIN, HEXAGON: CONTACT CONNECTION (96906) MS35690-502		EA	1									
X1 00607		PLATE, BACK: RANGE SWITCH (27315) 279H242D2		EA	1									
X1 00608		PLATE, FRONT: RANGE SWITCH (27315) 279H241		EA	1									
F 00609	5305-543-2717	SCREW, CAP, HEXAGON HEAD: BACK PLATE MTG (96906) MS35291-1		EA	1									
F 00610	5305-012-2033	SCREW, CAP, HEXAGON HEAD: CONTACT CONNECTION (96906) MS35291-37		EA	1									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION		
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)	
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.	
F 00611	5305-012-1960	SCREW, CAP, HEXAGON HEAD; CONTACT NTS, CADMIUM OR ZINC PLATED, 1/4-20 THD SIZE, 2 1/4 IN. LG (96906) NS35291-15		EA	2										
X1 00612		SHAFT, SHOULDERED (27315) 279H29404		EA	1										
X1 00613		SPACER (27315) 279H24802		EA	1										
X1 00614		SPACER (27315) 279H24803		EA	2										
X1 00615	4710-277-5529	TUBE, COPPER; 1/2 IN. DIA (27315) 218H10405		EA	1										
F 00616	5310-194-1540	WASHER FLAT; CONTACT NTS, CADMIUM OR ZINC CHROMATE, 0.281 IN. ID, 0.625 IN. OD, 0.080 IN. THK (96906) NS15795-210		EA	2										
F 00617	5310-012-0380	WASHER, LOCK; CONTACT AND BACK PLATE NTS (96906) NS35338-25		EA	3										
F 00618	5310-012-0214	WASHER, LOCK; CONTACT CONNECTION (96906) NS35338-26		EA	1										
X1 00619		WASHER, SPRING TENSION (27315) 220H45		EA	2										
P2F 00620	5990-761-8720	SWITCH, ROTARY; SELECTOR (27315) 2100E159	A	EA	1	*	*	*	*	*	*	5	03	35	
X1 00621		BLADE, ELECTRICAL, SWITCH (27315) 279H247	A	EA	7										
X1 00622		BLADE, ELECTRICAL, SWITCH (27315) 279H301	A	EA	1										
X1 00623		CONTACT, ELECTRICAL (27315) 279H245	A	EA	7										
X1 00624		CONTACT, ELECTRICAL (27315) 279H246	A	EA	5										
X1 00625		INSULATOR, PLATE (27315) 279H244	A	EA	13										
X1 00626		INSULATOR, WASHER (27315) 279H243	A	EA	12										
F 00627	5310-202-8951	NUT, PLAIN, HEXAGON; CONTACT CONNECTION (96906) NS35690-302	A	EA	3										
X1 00628		PLATE, BACK; SELECTOR SWITCH (27315) 279H24204	A	EA	1										
X1 00629		PLATE, FRONT; SELECTOR SWITCH (27315) 279H241	A	EA	1										
F 00630	5305-243-2717	SCREW, CAP, HEXAGON HEAD; BACK PLATE NTS, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 3/8 IN. LG (96906) NS35291-1	A	EA	1										
F 00631	5305-680-6004	SCREW, CAP, HEXAGON HEAD; CONTACT CONNECTION (96906) NS35291-32	A	EA	1										

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00632	5305-012-2033	SCREW, CAP, HEXAGON HEAD: CONTACT CONNECTION, CADMIUM OR ZINC CHROMATE, 5/16-18 THD SIZE, 1 3/8 IN. LG (96906) MS35291-37	A	EA	1									
F 00633	5305-545-8271	SCREW, CAP, HEXAGON HEAD: CONTACT CONNECTION, CADMIUM PLATED, 5/16-18 THD SIZE, 1 3/4 IN. LG (96906) MS35291-39	A	EA	1									
F 00634	5305-637-9506	SCREW, CAP, HEXAGON HEAD: CONTACT MTG, CADMIUM OR ZINC PLATED, 1/4-20 THD SIZE, 3 1/4 IN. LG (96906) MS35291-19	A	EA	2									
X1 00635		SHAFT, SHOULDERED (27315) 279M294D10	A	EA	1									
X1 00636		SPACER (27315) 279M248D2	A	EA	3									
X1 00637		SPACER (27315) 279M248D3	A	EA	2									
X1 00638		TUBE, COPPER; 1/2 IN. DIA (27315) 218H104D3	A	EA	1									
X1 00639		TUBE, COPPER (27315) 218H104D5	A	EA	1									
X1 00640		TUBE, COPPER (27315) 218H104D7	A	EA	1									
F 00641	5310-194-1540	WASHER, FLAT; CONTACT MTG (96906) MS15795-210	A	EA	2									
F 00642	5310-012-0380	WASHER, LOCK; CONTACT AND BACK PLATE MTG (96906) MS35338-25	A	EA	3									
F 00643	5310-012-0214	WASHER, LOCK; CONTACT CONNECTION (96906) MS35338-26	A	EA	3									
X1 00644		WASHER, SPRING TENSION (27315) 220M45	A	EA	2									
P2F 00645	5930-829-9584	SWITCH, ROTARY; SELECTOR (27315) 2100E105	B	EA	1	*	*	*	*	*	*	5	D4	6
X1 00646		BLADE, ELECTRICAL (27315) 279M247	B	EA	7									
X1 00647		BLADE, ELECTRICAL (27315) 279M301	B	EA	1									
X1 00648		CONTACT, ELECTRICAL (27315) 279M245	B	EA	7									
X1 00649		CONTACT, ELECTRICAL (27315) 279M246	B	EA	5									
X1 00650		INSULATOR, PLATE (27315) 279M244	B	EA	13									
X1 00651		INSULATOR, WASHER (27315) 279M243	B	EA	12									
F 00652	5310-543-2629	NUT, PLAIN, HEXAGON; CONTACT CONNECTION (96906) MS35690-502	B	EA	2									
X1 00653		PLATE, BACK; SELECTOR SWITCH (27315) 279M2403	B	EA	1									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION		
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)	
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.	
X1 00654		PLATE, FRONT: SELECTOR SWITCH (27315) 2794241	B	EA	1										
F 00655	5305-543-2717	SCREW, CAP, HEXAGON HEAD: BACK PLATE MTO, CADMIUM OR ZINC CHROMATE, 1/4-20 THD SIZE, 3/8 IN. LG (96906) MS35291-1	B	EA	1										
F 00656	5305-680-6004	SCREW, CAP, HEXAGON HEAD: CONTACT CONNECTION (96906) MS35291-32	B	EA	1										
F 00657	5305-012-2033	SCREW, CAP, HEXAGON: CONTACT CONNECTION, CADMIUM OR ZINC CHROMATE, 5/16-18 THD SIZE, 1 3/8 IN. LG (96906) MS35291-37	B	EA	1										
F 00658	5305-545-8271	SCREW, CAP, HEXAGON HEAD: CONTACT CONNECTION, CADMIUM PLATED, 5/16-18 THD SIZE, 1 3/4 IN. LG (96906) MS35291-39	B	EA	1										
F 00659	5305-637-9506	SCREW, CAP, HEXAGON HEAD: CONTACT MTO, CADMIUM OR ZINC PLATED, 1/4-20 THD SIZE, 3 1/4 IN. LG (96906) MS35291-19	B	EA	2										
X1 00660		SHAFT, SHOULDERED (27315) 2794294D8	B	EA	1										
X1 00661		SPACER (27315) 2794248D2	B	EA	3										
X1 00662		SPACER (27315) 2794248D3	B	EA	2										
X1 00663		TUBE, COPPER; 1/2 IN. DIA (27315) 218H104D3	B	EA	1										
X1 00664		TUBE, COPPER (27315) 218H104D5	B	EA	1										
X1 00665		TUBE, COPPER (27315) 218H104D7	B	EA	1										
F 00666	5310-194-1540	WASHER, FLAT; CONTACT MTO (96906) MS15795-210	B	EA	2										
F 00667	5310-012-0380	WASHER, LOCK; CONTACT AND BACK PLATE MTO (96906) MS35338-25	B	EA	3										
F 00668	5310-012-0214	WASHER, LOCK; CONTACT CONNECTION (96906) MS35338-26	B	EA	2										
X1 00669		WASHER, SPRING TENSION (27315) 220H45	B	EA	2										
P20 00670	5930-012-4410	SWITCH, TOGGLE: HIGH FREQUENCY AND WELDING PROCESS (27191) 7613K4		EA	2	*	*	2	*	*	2	6	D3	28	
P20 00671	5930-012-4411	SWITCH, TOGGLE: LINE (27191) 7611K4		EA	1	*	*	*	*	*	*	5	D3	27	
P20 00672	5930-012-4414	SWITCH, TOGGLE: REMOTE CONTROL AND SOFT START (27191) 7565K8		EA	2	*	*	2	*	*	2	6	D3	26	
P20 00673	6645-840-6186	TIMER, INTERVAL: POST-PURSE (30703) H1M	A	EA	1	*	*	*	*	*	*	5	D3	4	

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-30	31-100		FIG. NO.	ITEM NO.
P20 00674	6645-840-6186	TIMER, INTERVAL: POST-PURGE AND PRE-PURGE (30703) M1M	B	EA	2	*	*	*	*	*	*	5	D4	3
P20 00675	6645-012-4371	TIMER, INTERVAL: TIMED WELD (30703) H6S	B	EA	1	*	*	*	*	*	*	5	D3	6
X20 00676		TIMER ASSEMBLY, INTERVAL: TIMED WELD REPAIR KIT (27315) 2100H1531	B	EA	1								D9	
P20 00677	5935-187-0727	CONNECTOR, PLUG, ELECTRICAL: CONTACTOR CONTROL (74545) 7484	B	EA	1	SEE	GRP	4408					D9	8
P20 00678	5935-259-3105	CONNECTOR, PLUG, ELECTRICAL: OUTPUT SIGNAL (74545) 7428	B	EA	1	SEE	GRP	4408					D9	7
P20 00679	5935-892-9806	CONNECTOR, PLUG, ELECTRICAL: WELD TIMER CINCH JONES (71785) P1-241258	B	EA	1	SEE	GRP	4408					D9	3
P20 00680	5935-201-3545	CONNECTOR, RECEPTACLE, ELECTRICAL: CONTACTOR CONTROL (74545) 287244	B	EA	1	SEE	GRP	4408					D9	9
P20 00681	5935-178-8077	CONNECTOR, RECEPTACLE, ELECTRICAL: OUTPUT SIGNAL (74545) 287232	B	EA	1	SEE	GRP	4408					D9	6
X20 00682		DOOR: TIME WELD (27315) 214481	B	EA	1								D9	1
X20 00683		GROMMET, PLASTIC (27315) 287231013	B	EA	1	SEE	GRP	4407					D9	2
X20 00684		PLATE, IDENTIFICATION: TIMED WELD (27315) 232F291	B	EA	1	SEE	GRP	2210					D9	12
X20 00685	5945-012-4431	RELAY, ARMATURE (77342) AB1339	B	EA	1								D9	4
X20 00686	5945-012-4437	RELAY, ARMATURE (77342) AB1337	B	EA	1								D9	5
O 00687	5320-582-3304	RIVET, BLIND, SELF-PLUGGING SHANK, UNIVERSAL HEAD; IDENTIFICATION AND INSTRUCTION PLATE, ALUMINUM, 1/8 IN. DIA, 0.232 IN. LG (96906) MS20600AD4-2	B	EA	14	SEE	GRP	2210					D9	10
O 00688	5305-988-1724	SCREW, MACHINE: TIMED WELD PANEL MTS (96906) MS35206-280	B	EA	1								D9	13
X20 00689	6645-012-4371	TIMER, INTERVAL: TIMED WELD (30703) H6S	B	EA	1								D9	11
O 00690	5310-543-2705	WASHER, LOCK: TIMED WELD PANEL MTS (96906) MS35338-27	B	EA	1								D9	14
P O 00691	4810-012-4355	VALVE, SOLENOID: WATER AND GAS CONTROL (05402) 70291-063	B	EA	2	*	2	2	*	2	2	12	D3	44
F 00692	5310-202-8546	WASHER, FLAT: CONDENSOR MTS SCREW (96906) MS15795-207	B	EA	4								D11	2
F 00693	5310-045-0591	WASHER, LOCK: RELAY MTS SCREW (96906) MS35338-22	B	EA	12								D7	7
O 00694	5310-012-0380	WASHER, LOCK: SPARK GAP ASSEMBLY MTS (96906) MS35338-25	B	EA	2								D12	17

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION		
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)	
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.	
00695		4411 - RESISTOR COMPONENTS													
X2F 00696	5355-160-7116	KNOB: OUTPUT CONTROL RHEOSTAT (44655) 5130	A	EA	1									D8	18
X2F 00697	5355-518-1855	KNOB: PHASE SHIFT AND INTENSITY RHEOSTATS (44655) 5150		EA	2									D3	67
F 00698	5310-012-0622	NUT, PLAIN, HEXAGON: NON-INDUCTIVE RESISTOR MTG SCREW (96906) MS35649-82		EA	2									D12	21
X2F 00699		RESISTOR ASSEMBLY, BALLAST (27315) 9280F6-1		EA	1									D2	1
X2F 00700		ELEMENT, RESISTANCE (27315) 280F301		EA	1										
X2F 00701		INSULATOR, BUSHING (27315) 27524002		EA	8										
X2F 00702		INSULATOR, BUSHING (27315) 27524001		EA	2										
F 00703	5310-550-0777	NUT, PLAIN, HEXAGON: RESISTANCE ELEMENT MTG SCREW (96906) MS35690-402		EA	2										
F 00704	5310-274-8893	NUT, SELF-LOCKING, HEXAGON: RESISTANCE ELEMENT MTG (72962) 21CU040		EA	2										
F 00705	5305-014-3253	SCREW, CAP, HEXAGON HEAD: RESISTANCE ELEMENT MTG (96906) MS35291-19		EA	2										
X2F 00706		STRAP, MOUNTING: RESISTANCE ELEMENT (27315) 2164552		EA	2										
F 00707	5310-194-1540	WASHER, FLAT: RESISTANCE ELEMENT MTG SCREW (96906) MS15795-210		EA	2										
F 00708	5310-012-0380	WASHER, LOCK: RESISTANCE ELEMENT MTG SCREW (96906) MS35338-25		EA	2										
X1 00709		WASHER, SPRING TENSION: RESISTANCE ELEMENT MTG (78189) 3502-14-15		EA	4										
X2F 00710		RESISTOR ASSEMBLY: DISCHARGE (27315) 9279420-2		EA	1									D7	
X2F 00711	5970-989-5367	INSULATOR, WASHER: RESISTOR MTG (44655) 6011		EA	2									D7	21
F 00712		NUT, PLAIN, CAP: RESISTOR MTG (27315) 20261604		EA	1									D7	13
F 00713	5310-012-0622	NUT, PLAIN, HEXAGON: RESISTOR MTG (96906) MS35649-82		EA	1									D7	18
F 00714	5310-650-0190	NUT, SHEET, SPRING: RESISTOR MOUNTING (78553) C7000-832-4		EA	1									D7	19
P2F 00715	5905-051-3151	RESISTOR, FIXED, WIRE WOUND (27315) 280233		EA	1	*	*	*	*	*	*	5		D7	22
F 00716	5305-043-6707	SCREW, MACHINE: RESISTOR MTG, CADMIUM OR ZINC PLATED, No. 8-32 THD SIZE, 3 IN. LG (96906) MS35225-57		EA	1									D7	23
F 00717	5310-011-5544	WASHER, LOCK: RESISTOR MTG (96906) MS35333-4		EA	2									D7	14

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION		
					(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)	
					1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.	
F 00718	5310-596-4694	WASHER, SHOULDER; RESISTOR MTD, CADMIUM PLATED, 0.187 IN. ID, 0.563 IN. OD, 0.024 IN. THK (44655) 6000		EA	2							D7	20	
P2F 00719	5905-012-4380	RESISTOR, FIXED, WIRE WOUND (27315) 80211		EA	1	*	*	*	*	*	*	5	D12	73
P2F 00720	5905-012-4382	RESISTOR, FIXED, WIRE WOUND; NON-INDUCTIVE (44655) 4KN53-25BN10		EA	1	*	*	*	*	*	*	5	D12	4
X2F 00721		RHEOSTAT ASSEMBLY, REMOTE; OUTPUT CONTROL (27315) 9279E26-9	A	EA	1								D8	
X2F 00722	5975-337-6653	ADAPTER, CABLE TO CONNECTOR; HOUSING (59730) 3303	A	EA	1								D8	11
P20 00723	3431-012-4357	CABLE ASSEMBLY, ELECTRICAL; REMOTE RHEOSTAT (27315) 279F109026	A	EA	1	*	*	*	*	*	*	5	D8	12
P20 00724	5935-296-8672	CONNECTOR, PLUG, ELECTRICAL; REMOTE RHEOSTAT CABLE (74545) 7411	A	EA	1	*	*	*	*	*	*	5	D8	14
X1 00725		HOUSING; RHEOSTAT (27315) 214F9501	A	EA	1								D9	8
F 00726	5310-010-3088	NUT, PLAIN, HEXAGON; BASE GROUNDING SCREW, No. 10-32 THD SIZE (96906) MS35650-101	A	EA	1								D8	9
F 00727	5310-202-8549	NUT, SHEET SPRING; SHROUD MOUNTING (78553) C1793-1024	A	EA	10								D8	6
		PLATE, IDENTIFICATION; REMOTE RHEOSTAT (27315) 232M96	A	EA	1	SEE	GRP	2210					D8	2
X2F 00729		PLATE, INSTRUCTION; CALIBRATION (27315) 232M95	A	EA	1	SEE	GRP	2210					D8	15
X2F 00730	5355-160-7116	KNOB; OUTPUT CONTROL RHEOSTAT (44655) 5130		EA	1								D3	15
P2F 00731	5905-012-4389	RHEOSTAT; REMOTE OUTPUT CONTROL (44655) 46460		EA	1	*	*	*	*	*	*	5	D3	17
F 00732	5305-270-7525	SCREW, CAP, HEXAGON HEAD; RHEOSTAT MTD, 1/4-20 THD SIZE, 5/8 IN. LG (96906) MS35289-5	A	EA	2								D8	17
F 00733	5305-043-6589	SCREW, MACHINE; BASE GROUNDING, CADMIUM PLATED, No. 10-24 THD SIZE, 5/8 IN. LG (96906) MS35222-64	A	EA	1								D8	13
O 00734	5305-011-3231	SCREW, TAPPING, THREAD FORMING; IDENTIFICATION PLATE MTD (27315) 2024007	A	EA	2	SEE	GRP	2210					D8	1
F 00735	5305-811-9252	SCREW, TAPPING, THREAD FORMING; SHROUD MTD, CADMIUM OR ZINC PLATED, No. 10-32 THD SIZE, 5/8 IN. LG (27315) 20240021	A	EA	10								D8	4
X1 00736		SHROUD; RHEOSTAT HOUSING (27315) 277F84	A	EA	1								D8	5

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00737	5310-616-3021	WASHER, FLAT; SHROUD MTG AND BASE GROUNDING, 0.190 IN. ID, 0.438 IN. OD, 0.065 IN. THK (96906) MS15795-8	A	EA	11								D8	3
F 00738	5310-197-3140	WASHER, LOCK; BASE GROUNDING SCREW (78189) 4010-18-00	A	EA	1								D8	10
F 00739	5310-010-3319	WASHER, LOCK; RHEOSTAT MTG (96906) MS35338-6	A	EA	2								D8	16
P2F 00740	5905-690-0479	RHEOSTAT; INTENSITY (37942) 75K5P		EA	1	*	*	*	*	*	*	5	D3	30
P2F 00741	5905-012-4389	RHEOSTAT; OUTPUT CONTROL (44655) 46460	A	EA	1	*	*	*	*	*	*	5	D8	7
P2F 00742	5905-761-8719	RHEOSTAT; PHASE SHIFT (44655) 46464A		EA	1	*	*	*	*	*	*	5	D3	29
F 00743	5305-637-4028	SCREW, CAP, HEXAGON HEAD; OUTPUT CONTROL RHEOSTAT MOUNTING (96906) MS35291-3		EA	2								D3	18
F 00744	5305-043-6693	SCREW, MACHINE; NON-INDUCTIVE RESISTOR MTG (96906) MS35225-43		EA	2								D12	3
P2F 00745	6625-012-4468	SHUNT, INSTRUMENT (08931) 50-140011-500		EA	1	*	*	*	*	*	*	5	D12	30
F 00746	5310-012-0214	WASHER, LOCK; NON-INDUCTIVE RESISTOR MTG SCREW (96906) MS35338-26		EA	2								D12	20
F 00747	5310-012-0380	WASHER, LOCK; OUTPUT CONTROL RHEOSTAT MTG SCREW (96906) MS35338-25		EA	2								D3	19
00748		4412 - TRANSFORMER COMPONENTS												
P F 00749	5910-012-4390	CAPACITOR, FIXED; POWER FACTOR (74545) 49F6036		EA	2	*	2	2	*	2	2	12.	D11	3.
X2F 00750		COIL ASSEMBLY, HIGH FREQUENCY AND INDUCTION (27315) 9279E122-2		EA	1								D12	
X2F 00751		BRACKET, MOUNTING; HIGH FREQUENCY TRANSFORMER (27315) 2164599		EA	1								D12	57
P2F 00752	5910-012-4391	CAPACITOR, FIXED; CLEANING (01002) 49F6221		EA	1	*	*	*	*	*	*	5	D12	74
P2F 00753	5910-012-4363	CAPACITOR, MICA DIELECTRIC; BY-PASS (14655) 217-6A		EA	2	*	*	*	*	*	*	5	D12	1
X2F 00754		COIL ASSEMBLY, INDUCTION (27315) 9275A72-8		EA	1								D12	14
M F 00755		LEAD, ELECTRICAL; 2 RES-145 TO 3C-146, 3C-147 TO 2C-159 (27315) 275827602 MANUFACTURE FROM:		EA	2									
P F 00756	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG (6 IN. REQUIRED FOR EACH LEAD)		FT.	44.									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) 30-DAY DS MAINT ALLOWANCE	(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION				
						(a)	(b)	(c)		(a)	(b)	(c)	(a)	(b)
						1-20	21-50	51-100		1-20	21-50	51-100	FIG. NO.	ITEM NO.
F 00757	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	4									
M F 00758		LEAD, ELECTRICAL: 4T-4X1 to TB2-25 (27315) 279F2760133 MANUFACTURE FROM:		EA	1									
P F 00759	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (16 IN. REQUIRED)		FT		SEE GRP 5501								
F 00760	5940-874-9033	TERMINAL, LUG (89110) 41274		EA	1									
F 00761	5940-156-1510	TERMINAL, LUG (89110) 34125		EA	1									
M F 00762		LEAD, ELECTRICAL: 2RH-152 to 1C-153 (27315) 279F690150 MANUFACTURE FROM:		EA	1									
P F 00763	6145-189-6751	WIRE, ELECTRICAL: No. 16 AWG (12 IN. REQUIRED)		FT		SEE GRP 5501								
F 00764	5940-271-3862	TERMINAL, LUG (59730) RB863		EA	1									
F 00765	5940-644-8713	TERMINAL, LUG (59730) RB873		EA	1									
M F 00766		LEAD, ELECTRICAL: 2RH-151 to 3T-4X2 (27315) 279F690148 MANUFACTURE FROM:		EA	1									
P F 00767	6145-189-6751	WIRE, ELECTRICAL: No. 16 AWG (8 IN. REQUIRED)		FT		SEE GRP 5501								
F 00768	5940-271-3862	TERMINAL, LUG (89110) 35603		EA	1									
F 00769	5940-644-8713	TERMINAL, LUG (89110) 35363		EA	1									
M F 00770		LEAD, ELECTRICAL: 2RH-151 to E-156 (27315) 279F690632 MANUFACTURE FROM:		EA	1									
P F 00771	6145-189-6751	WIRE, ELECTRICAL: No. 16 AWG (14 IN. REQUIRED)		FT		SEE GRP 5501								
F 00772	5940-271-3862	TERMINAL, LUG (89110) 35603		EA	1									
F 00773	5940-644-8713	TERMINAL, LUG (89110) 35363		EA	1									
M F 00774		LEAD, ELECTRICAL: 1C-154 to 4T-4H1 (27315) 279F690241 MANUFACTURE FROM:		EA	1									
P F 00775	6145-189-6751	WIRE, ELECTRICAL: No. 16 AWG (16 IN. REQUIRED)		FT		SEE GRP 5501								
F 00776	5940-644-8713	TERMINAL, LUG (89110) 35363		EA	2									
M F 00777		LEAD, ELECTRICAL: E-155 to 4T-4H2 (27315) 279F690633 MANUFACTURE FROM:		EA	1									
P F 00778	6145-189-6751	WIRE, ELECTRICAL: No. 16 AWG (14 IN. REQUIRED)		FT		SEE GRP 5501								
F 00779	5940-644-8713	TERMINAL, LUG (89110) 35363		EA	1									

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP ENTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00780	5940-230-0515	TERMINAL LUG (89110) 35362		EA	1									
M F 00781		LEAD, ELECTRICAL: 2RES-144 TO 55-142 (27315) 279F27605 MANUFACTURE FROM:		EA	1									
P F 00782	6145-192-3268	WIRE, ELECTRICAL: No. 14 AWG (12 IN. REQUIRED)		FT		SEE GRP 9501								
F 00783	5940-874-9033	TERMINAL LUG (89110) 41274		EA	2									
F 00784	5310-012-0614	NUT, PLAIN, HEXAGON: BY-PASS CAPACITOR MTO SCREW (96906) MS35650-102		EA	4								D12	23
F 00785	5310-012-0622	NUT, PLAIN, HEXAGON: CLEANING CAPACITOR MTO SCREW (96906) MS35649-82		EA	2								D12	16
F 00786	5310-550-0777	NUT, PLAIN, HEXAGON: INDUCTANCE COIL ASSEMBLY MTO SCREW (96906) MS35690-402		EA	2								D12	25
F 00787	5310-012-0622	NUT, PLAIN, HEXAGON: NON-INDUCTIVE RESISTOR MTO SCREW (96906) MS35649-82		EA	2	SEE GRP 4411								
F 00788	5310-202-8502	NUT, PLAIN, HEXAGON: TRANSFORMER MTO (96906) MS35690-802		EA	4								D12	51
X2F 00789		NUT, SELF-LOCKING, HEXAGON: HIGH FREQUENCY TRANSFORMER MTO SCREW (72962) 224402		EA	4								D12	19
X1 00790		PLATE, HIGH FREQUENCY MOUNTING (27315) 216F3406		EA	1								D12	75
P2F 00791	5905-012-4380	RESISTOR, FIXED, WIRE WOUND (27315) 80211		EA	1	SEE GRP 4411								
P2F 00792	5905-012-4382	RESISTOR, FIXED, WIRE WOUND: NON-INDUCTIVE (44655) 44KN-53-25BNT10		EA	1	SEE GRP 4411								
F 00793	5305-012-1887	SCREW, CAP, HEXAGON HEAD: INDUCTANCE COIL ASSEMBLY MOUNTING (96906) MS35291-6		EA	2								D12	13
O 00794	5305-021-4602	SCREW, CAP, HEXAGON HEAD: SPRK GAP ASSEMBLY MTO (96906) MS35292-5		EA	2	SEE GRP 4410							D12	18
F 00795	5305-043-6751	SCREW, MACHINE: BY-PASS CAPACITOR MTO, CADMIUM OR ZINC CHROMATE, No. 10-32 THD SIZE, 5/8 IN. LG (96906) MS35226-64		EA	4								D12	2
F 00796	5305-043-6693	SCREW, MACHINE: CLEANING CAPACITOR MTO (96906) MS35225-43		EA	2								D12	72
F 00797	5305-043-6751	SCREW, MACHINE: HIGH FREQUENCY TRANSFORMER MTO (96906) MS35226-64		EA	4								D12	5
F 00798	5305-043-6693	SCREW, MACHINE: NON-INDUCTIVE RESISTOR MTO (96906) MS35225-43		EA	2	SEE GRP 4411								
F 00799		SCREW, MACHINE: TRANSFORMER MTO NUT		EA	4								D12	54

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
P O 00800	3431-012-4362	SPARK GAP ASSEMBLY (27315) 9579F81-1		EA	1	SEE	GRP	4410					D12	
P2F 00801	5950-761-8721	TRANSFORMER, POWER STEP-UP: HIGH FREQUENCY (27315) 279Q1		EA	1	*	*	*	*	*	*	5	D12	6
F 00802	5310-012-0217	WASHER, LOCK: BY-PASS CAPACITOR MTO (96906) MS35338-24		EA	4								D12	22
F 00803	5310-012-0214	WASHER, LOCK: CLEANING CAPACITOR MTO SCREW (96906) MS35338-26		EA	2								D12	15
F 00804	5310-012-0380	WASHER, LOCK: INDUCTANCE COIL ASSEMBLY MTO SCREW (96906) MS35338-25		EA	2								D12	24
F 00805	5310-012-0214	WASHER, LOCK: NON-INDUCTIVE RESISTOR MTO SCREW (96906) MS35338-26		EA	2	SEE	GRP	4411						
O 00806	5310-012-0380	WASHER, LOCK: SPARK GAP ASSEMBLY MTO (96906) MS35338-25		EA	2	SEE	GRP	4410					D12	17
X2F 00807		REACTOR, SATURABLE (27315) 9279E131-2		EA	1								D10	
X1 00808		COIL, AC REACTOR (27315) 9275E74-1		EA	1								D10	25
P2F 00809	5950-012-4443	COIL, DC EXCITER (27315) 9275F53-2		EA	4	*	*	*	*	*	*	5	D10	23
X1 00810		CORE AND SUPPORT, REACTOR (27315) 276E30D1		EA	1								D10	31
P2F 00811	5950-012-4450	INSULATION SET: SATURABLE REACTOR (27315) 275H151		EA	1	*	*	*	*	*	*	3	D10	24
P2F 00812	5970-012-4451	INSULATOR, PLATE (27315) 754293D15		EA	1	*	*	*	*	*	*	3	D10	26
F 00813	5310-202-8552	NUT, PLAIN, HEXAGON: YOKE TO CORE (96906) MS35690-802		EA	2								D10	28
F 00814		SCREW, CAP, HEXAGON HEAD: YOKE TO CORE (27315) 0609V136		EA	2								D10	19
X2F 00815		SHIM (27315) 275H17808		EA	1								D10	30
F 00816	5310-584-5272	WASHER, LOCK: YOKE TO CORE SCREW (96906) MS35338-29		EA	2								D10	27
X1 00817		YOKE, REACTOR (27315) 276F30D2	A	EA	1								D10	29
X2F 00818		REACTOR: STABILIZING (27315) 9279F270-2		EA	1								D10	
X1 00819		COIL, REACTOR (27315) 9275F148-2		EA	1								D10	5
X1 00820		COIL, REACTOR (27315) 9275F148-1		EA	1								D10	6
X1 00821		CORE, REACTOR (27315) 276F62D2	A	EA	1								D10	7
X1 00822		INSULATION SET: STABILIZING REACTOR (27315) 275H64		EA	1								D10	4

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
F 00823	5310-202-8552	NUT, PLAIN, HEXAGON: REACTOR TO SUPPORT SCREW (96906) MS35690-802		EA	2								D10	3
F 00824		SCREW, CAP, HEXAGON HEAD: REACTOR TO SUPPORT (27315) 0810V120		EA	2								D10	12
X1 00825		SUPPORT: STABILIZING REACTOR (27315) 216F416		EA	1								D10	13
F 00826	5310-012-0384	WASHER, LOCK: RECTOR TO SUPPORT SCREW (96906) MS35338-29	A	EA	2								D10	2
X1 00827		YOKE, REACTOR (27315) 276F63D2		EA	1								D10	1
P2F 00828	5950-012-4444	TRANSFORMER, CURRENT (08931) JAU0750X91G17		EA	1	*	*	*	*	*	*	5	D3	23
P2F 00829	5950-012-4445	TRANSFORMER, POWER, STEP-DOWN: CONTROL (27315) 9279F234		EA	1	*	*	*	*	*	*	5	D12	53
P2H 00830	5950-892-9588	TRANSFORMER, POWER STEP-DOWN: MAIN (27315) 9279E130-2	A	EA	1				*	*	*	5	D11	
X1 00831		COIL, TRANSFORMER: LH (27315) 9275A155-1		EA	1								D11	10
X1 00832		COIL, TRANSFORMER: RH (27315) 9275A156-1		EA	1								D11	30
X1 00833		CORE, TRANSFORMER (27315) 276F902	A	EA	1								D11	9
X1 00834		INSULATION SET: MAIN TRANSFORMER (27315) 275H158	A	EA	1								D11	11
F 00835	5310-550-0777	NUT, PLAIN, HEXAGON: TERMINAL BOARD MTG (96906) MS35690-402		EA	4								D11	24
F 00836	5310-543-5089	NUT, PLAIN, HEXAGON: TRANSFORMER TO SUPPORT SCREW (96906) MS35690-802		EA	2								D11	27
X2F 00837		TERMINAL, BOARD: MAIN TRANSFORMER (27315) 9279F233-2		EA	1									
X2F 00838	5940-014-4423	LINK, TERMINAL CONNECTING (27315) 279F27D1		EA	2								D11	20
F 00839	5310-543-4971	NUT, PLAIN, HEXAGON: TERMINAL SCREW (96906) MS35690-411	A	EA	18								D11	19
F 00840		SCREW, CAP, HEXAGON HEAD: TERMINAL (27315) 202581	A	EA	6								D11	12
X1 00841		TERMINAL BOARD (27315) 279F268	A	EA	1								D11	18
X2F 00842		TERMINAL, QUICK DISCONNECT (2765) QL45		EA	2								D11	14
F 00843	5310-209-0111	WASHER, FLAT: TERMINAL SCREW, BRASS, 5/16 IN. ID, 3/4 IN. OD, 1/16 IN. THK (96906) MS15795-611	A	EA	18								D11	13
X2F 00844		SCREW, CAP, HEXAGON HEAD: TRANSFORMER TO SUPPORT (27315) 0609V139	A	EA	2								D11	39

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REF NUMBER & MFR CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1-YR ALW PER 100 EQUIP CNTGY	(9) ILLUS- TRATION	
						(a)	(b)	(c)	(a)	(b)	(c)		(a)	(b)
						1-20	21-50	51-100	1-20	21-50	51-100		FIG. NO.	ITEM NO.
X2F 00845		SUPPORT, TRANSFORMER (27315) 216E97D1		EA	1								D11	34
F 00846	5310-194-1540	WASHER, FLAT; TERMINAL BOARD MTO (96906) MS15795-210		EA	4								D11	25
F 00847	5310-584-5257	WASHER, LOCK; TRANSFORMER TO SUPPORT SCREW (96906) MS35338-29		EA	2								D11	28
X1 00848		YOKE, TRANSFORMER (27315) 27645D3		EA	1								D11	29
00849		4413 - RECTIFIER COMPONENTS												
P2F 00850	5970-012-4454	INSULATOR, PLATE; RELAY RECTIFIER (27315) 279H142		EA	1	*	*	*	*	*	*	5	D7	24
F 00851	6310-543-2628	NUT, PLAIN, HEXAGON; CONTROL RECTIFIER MTO, CADMIUM OR ZINC CHROMATE, 3/8-16 THD SIZE (96906) MS35690-602		EA	1								D7	9
F 00852	5310-202-8551	NUT, PLAIN, HEXAGON; MAIN POWER RECTIFIER MTO (96906) MS35690-502		EA	4								D12	38
F 00853	5310-012-0622	NUT, PLAIN, HEXAGON; RELAY RECTIFIER MTO (96906) MS35649-82		EA	1								D7	11
P2F 00854	6130-012-4477	RECTIFIER, METALLIC; CONTROL (81093) SD1254		EA	1	*	*	*	*	*	*	5	D7	31
P2F 00855	6130-012-4475	RECTIFIER, METALLIC; MAIN POWER (81483) 61-9038		EA	1	*	*	*	*	*	*	5	D12	35
P2F 00856	6130-014-4478	RECTIFIER, METALLIC; RELAY (73506) SF11R16F000		EA	1	*	*	*	*	*	*	5	D7	25
F 00857	5310-543-2705	WASHER, LOCK; CONTROL RECTIFIER MTO, CADMIUM OR ZINC CHROMATE, 0.382 IN. ID, 0.094 IN. THK (96906) MS35338-27		EA	1								D7	10
F 00858	5310-012-0214	WASHER, LOCK; MAIN POWER RECTIFIER MTO (96906) MS35338-26		EA	4								D12	37
F 00859	5310-011-5544	WASHER, LOCK; RELAY RECTIFIER MTO, 0.172 IN. ID, 0.332 IN. OD, 0.020 IN. THK (96906) MS35333-4		EA	1								D7	12
00860		GROUP 95 - GENERAL USE STANDARDIZED PARTS												
00861		9501 - BULK MATERIAL												
P F 00862	6145-192-3268	WIRE, ELECTRICAL; No. 14 AWG		FT	4	8	17	4	8	17	200			
P F 00863	6145-686-4396	WIRE, ELECTRICAL; No. 6 AWG		FT	*	2	2	*	2	2	12			
P F 00864	6145-189-6751	WIRE, ELECTRICAL; No. 16 AWG	A	FT	*	2	2	*	2	2	12			
P F 00865	6150-190-0998	WIRE, ELECTRICAL; No. 0, 2646 STRANDS OF No. 34, .0063 IN. AWG	B	FT	*	*	2	*	*	2	6			

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<u>Stock Number</u>	<u>Index Number</u>	<u>Stock Number</u>	<u>Index Number</u>	<u>Stock Number</u>	<u>Index Number</u>
3431-012-4357	00723	5310-011-5543	00111	5310-543-2705	00857
3431-012-4362	00541	5310-011-5544	00117	5310-543-4971	00469
3431-012-4362	00600	5310-011-5544	00059	5310-543-4971	00039
3431-851-4665	00412	5310-011-5547	00525	5310-543-5080	00030
3431-891-0977	00413	5310-012-0214	00110	5310-550-0777	00057
3431-891-0977	00500	5310-012-0214	00618	5310-550-0777	00064
4710-277-4529	00615	5310-012-0214	00643	5310-550-0777	00067
4710-277-4553	00132	5310-012-0214	00660	5310-550-0777	00068
4810-012-4355	00041	5310-012-0214	00740	5310-550-0777	00491
5305-010-0111	00593	5310-012-0214	00003	5310-550-0777	00703
5305-011-3231	00734	5310-012-0214	00005	5310-550-0777	00700
5305-012-1887	00083	5310-012-0214	00058	5310-550-0777	00835
5305-012-1887	00087	5310-012-0217	00022	5310-584-5257	00047
5305-012-1887	00793	5310-012-0380	00105	5310-584-5272	00100
5305-012-1960	00611	5310-012-0380	00108	5310-584-5272	00107
5305-012-2033	00610	5310-012-0380	00109	5310-584-5272	00016
5305-012-2033	00632	5310-012-0380	00617	5310-584-6694	00718
5305-012-2033	00657	5310-012-0380	00642	5310-596-7674	00104
5305-012-2033	00705	5310-012-0380	00667	5310-596-7674	00526
5305-014-3253	00030	5310-012-0380	00074	5310-614-3021	00737
5305-014-3267	00055	5310-012-0380	00700	5310-650-0190	00714
5305-021-4602	00794	5310-012-0380	00717	5310-655-9662	00003
5305-021-4602	00007	5310-012-0380	00004	5310-656-0026	00420
5305-042-0479	00001	5310-012-0380	00006	5310-761-6882	00005
5305-042-0479	00374	5310-012-0384	00103	5310-803-1833	00420
5305-042-0479	00373	5310-012-0384	00226	5310-811-7494	00118
5305-042-0507	00733	5310-012-0614	00531	5315-619-0212	00370
5305-043-6589	00375	5310-012-0614	00784	5320-582-3304	00034
5305-043-6663	00589	5310-012-0622	00488	5320-582-3304	00035
5305-043-6663	00590	5310-012-0622	00542	5320-582-3304	00007
5305-043-6663	00000	5310-012-0622	00553	5325-012-4374	00052
5305-043-6666	00494	5310-012-0622	00565	5325-012-4376	00003
5305-043-6693	00543	5310-012-0622	00698	5340-012-4377	00509
5305-043-6693	00554	5310-012-0622	00713	5340-266-0759	00130
5305-043-6693	00566	5310-012-0622	00785	5340-559-8846	00050
5305-043-6693	00744	5310-012-0622	00787	5340-954-0098	00078
5305-043-6693	00796	5310-012-0622	00853	5355-160-7116	00696
5305-043-6693	00796	5310-013-1498	00505	5355-160-7116	00730
5305-043-6707	00710	5310-013-4530	00062	5355-160-7116	00697
5305-043-6750	00532	5310-013-4530	00490	5355-160-7116	00719
5305-043-6751	00797	5310-017-4916	00576	5355-160-7116	00791
5305-043-6751	00500	5310-043-2226	00524	5355-160-7116	00720
5305-043-6752	00587	5310-043-2226	00513	5355-160-7116	00792
5305-044-5957	00500	5310-043-2226	00571	5355-160-7116	00731
5305-068-0501	00506	5310-045-0591	00693	5355-160-7116	00741
5305-071-2239	00506	5310-194-1540	00616	5355-160-7116	00710
5305-261-1820	00084	5310-194-1540	00641	5355-160-7116	00740
5305-261-1822	00085	5310-194-1540	00666	5355-160-7116	00742
5305-270-7525	00732	5310-194-1540	00707	5355-160-7116	00753
5305-527-4193	00082	5310-194-1540	00846	5355-160-7116	00749
5305-527-4193	00117	5310-197-7140	00738	5355-160-7116	00752
5305-527-4193	00493	5310-202-8502	00788	5355-160-7116	00127
5305-531-1783	00609	5310-202-8544	00074	5355-160-7116	00529
5305-543-2717	00630	5310-202-8546	00692	5355-160-7116	00526
5305-543-2717	00655	5310-202-8547	00073	5355-160-7116	00530
5305-543-4251	00596	5310-202-8548	00077	5355-160-7116	00600
5305-543-4891	00344	5310-202-8549	00076	5355-160-7116	00512
5305-545-8271	00633	5310-202-8549	00365	5355-160-7116	00568
5305-545-8271	00658	5310-202-8551	00360	5355-160-7116	00556
5305-545-8271	00492	5310-202-8551	00727	5355-160-7116	00545
5305-550-3934	00422	5310-202-8551	00606	5355-160-7116	00670
5305-550-9342	00421	5310-202-8551	00627	5355-160-7116	00671
5305-550-9349	00091	5310-202-8552	00852	5355-160-7116	00672
5305-558-3676	00120	5310-202-8552	00061	5355-160-7116	00599
5305-558-3676	00507	5310-202-8552	00065	5355-160-7116	00620
5305-576-7099	00088	5310-202-8552	00066	5355-160-7116	00645
5305-637-4028	00089	5310-202-8552	00382	5355-160-7116	00416
5305-637-4028	00743	5310-202-8552	00813	5355-160-7116	00403
5305-637-4028	00634	5310-202-8552	00823	5355-160-7116	00409
5305-637-9506	00659	5310-209-0111	00843	5355-160-7116	00399
5305-637-9506	00631	5310-209-0709	00101	5355-160-7116	00400
5305-680-6004	00656	5310-209-5309	00523	5355-160-7116	00406
5305-680-6004	00735	5310-209-5309	00546	5355-160-7116	00407
5305-811-9252	00586	5310-209-5309	00558	5355-160-7116	00681
5305-984-6194	00688	5310-209-5309	00579	5355-160-7116	00397
5305-988-1724	00049	5310-274-8887	00570	5355-160-7116	00398
5306-225-8497	00726	5310-274-8893	00704	5355-160-7116	00677
5310-010-3080	00572	5310-274-8893	00060	5355-160-7116	00404
5310-010-3319	00594	5310-527-3289	00069	5355-160-7116	00405
5310-010-3319	00597	5310-543-2629	00652	5355-160-7116	00680
5310-010-3319	00739	5310-543-2629	00640	5355-160-7116	00678
5310-010-3319		5310-543-2705	00640	5355-160-7116	00724

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8935-547-1116	00128	8940-874-9033	00262	6145-192-3268	00159
8935-581-4099	00414	8940-874-9033	00265	6145-192-3268	00163
8935-891-2671	00401	8940-874-9033	00268	6145-192-3268	00166
8935-891-2671	00412	8940-874-9033	00271	6145-192-3268	00169
8935-891-2671	00501	8940-874-9033	00274	6145-192-3268	00173
8935-892-9806	00402	8940-874-9033	00276	6145-192-3268	00176
8935-892-9806	00674	8940-874-9033	00282	6145-192-3268	00180
8935-892-9814	00410	8940-874-9033	00285	6145-192-3268	00183
8935-893-0736	00408	8940-874-9033	00288	6145-192-3268	00186
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6150-190-0998	00865
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6625-012-4465	00125
6625-012-4468	00749
6625-012-4470	00377
6625-012-4471	00378
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6645-840-6186	00673
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AR1338	77342	00581	MS35289-6	46906	00085
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AB1339	77342	00685	MS35291-1	96906	00630
AB1340	77342	00584	MS35291-1	46906	00635
AB1340	77342	00580	MS35291-111	46906	00635
AB1341	77342	00575	MS35291-114	46906	00635
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MS35289-10	96906				

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MS 35650-101	96906	00726	216F371	27315	00099
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MS 35650-402	96906	00757	216H552	27315	00092
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MS 35650-802	96906	00063	227F200	27315	00045
MS 90725-32	96906	00049	227F272D3	27315	00043
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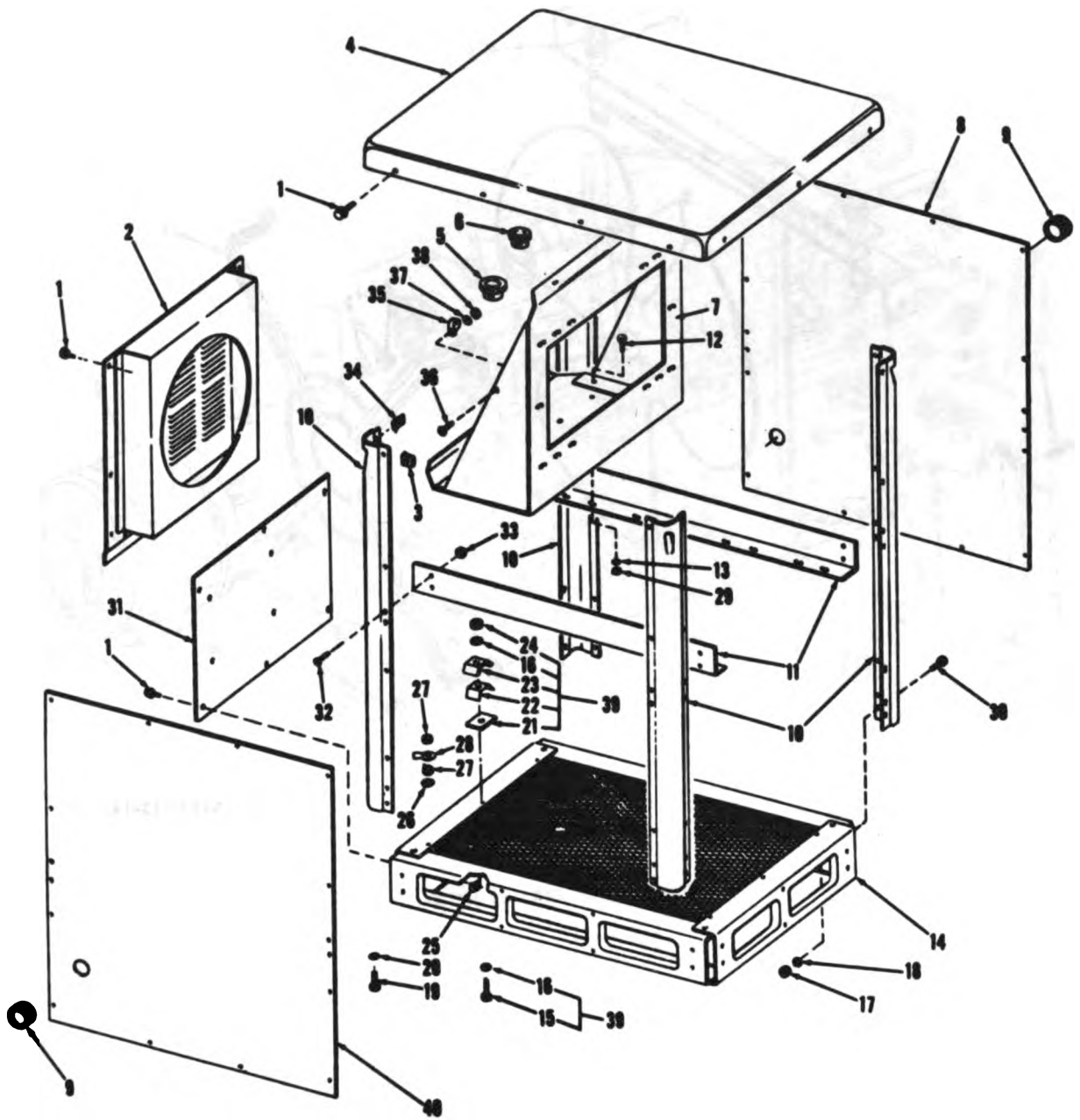
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<u>REFERENCE No.</u>	<u>TRA CODE</u>	<u>INDEX No.</u>	<u>REFERENCE No.</u>	<u>TRA CODE</u>	<u>INDEX No.</u>
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279H412	27315	00544	41274	89110	00757
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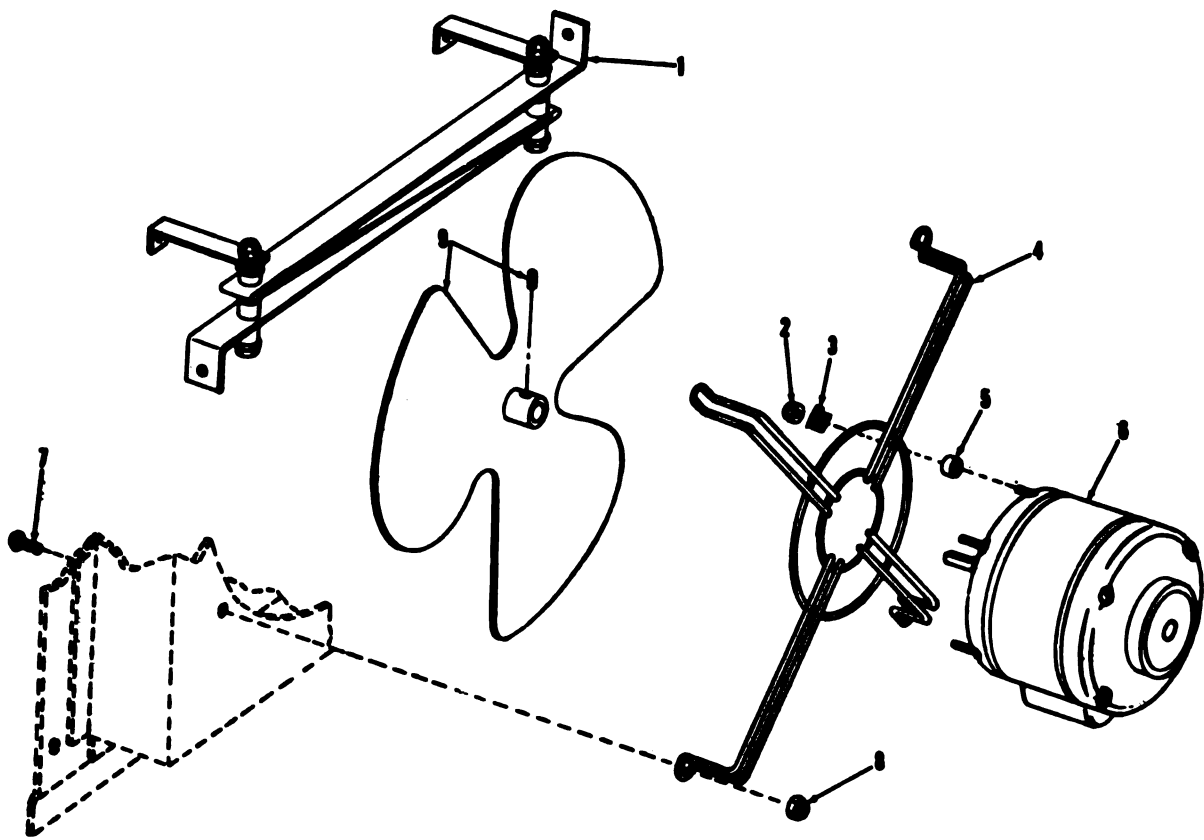
**Section VII. INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER
CROSS-REFERENCE TO INDEX NUMBER**

<u>REFERENCE No.</u>	<u>MRG CODE</u>	<u>INDEX No.</u>	<u>REFERENCE No.</u>	<u>MRG CODE</u>	<u>INDEX No.</u>
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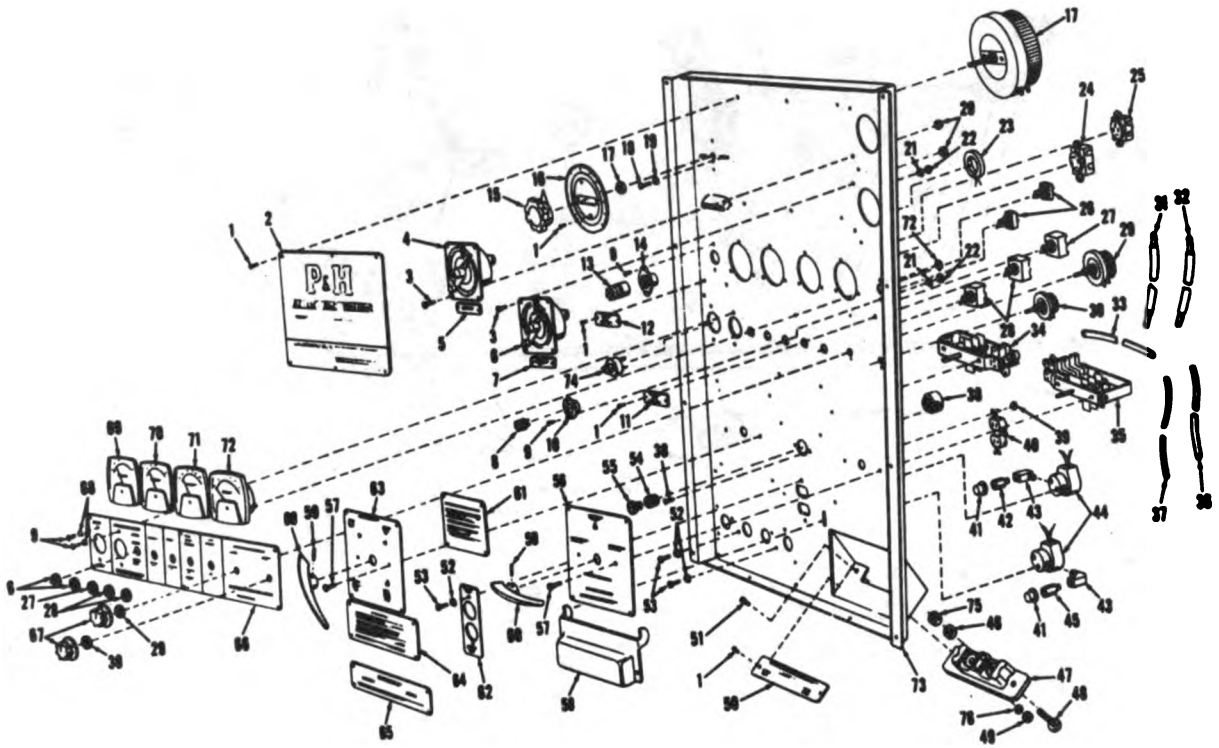
ME 3431-213-14/D-1

FIGURE NO. D-1 STRUCTURAL COMPONENTS



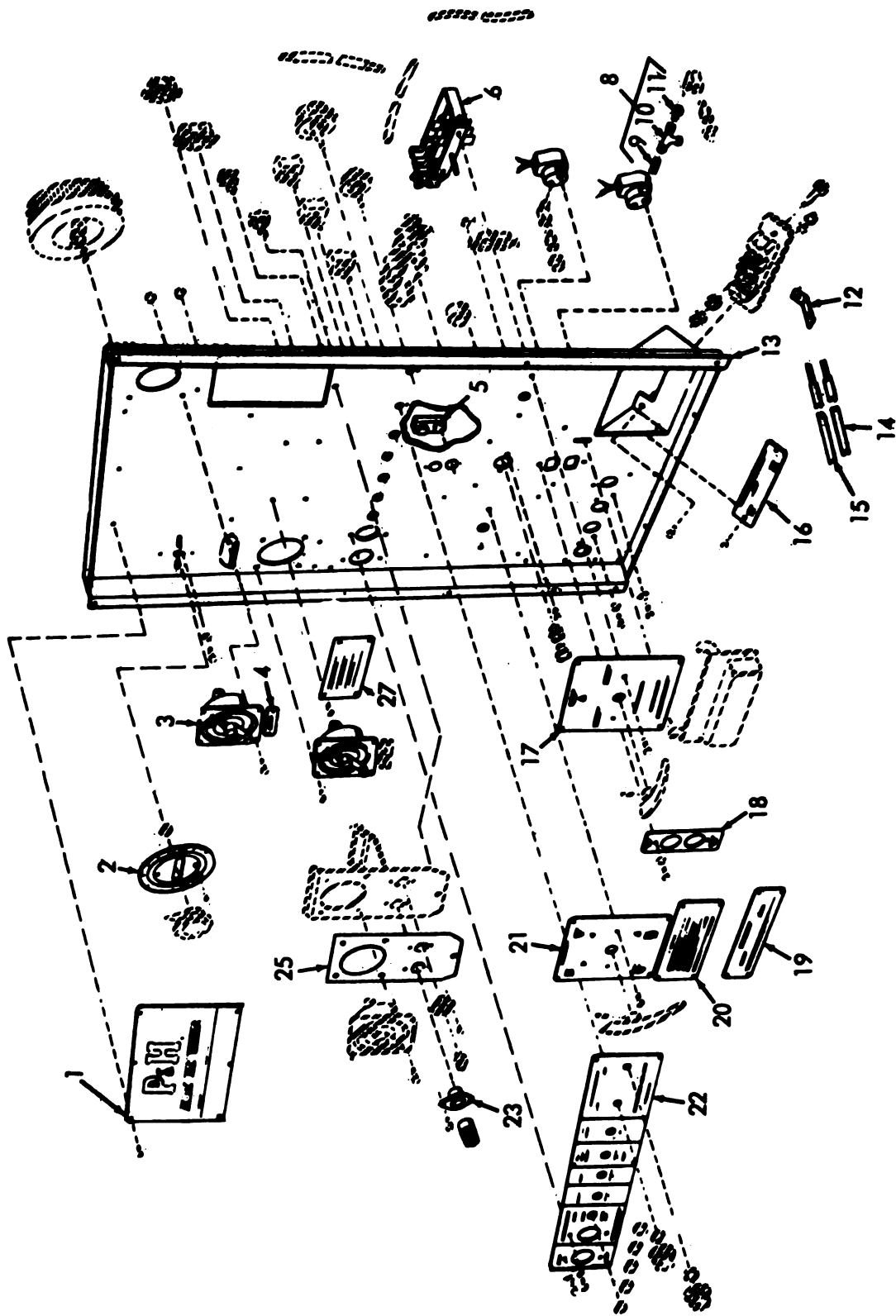
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FIGURE NO. D-2 FAN AND MOTOR



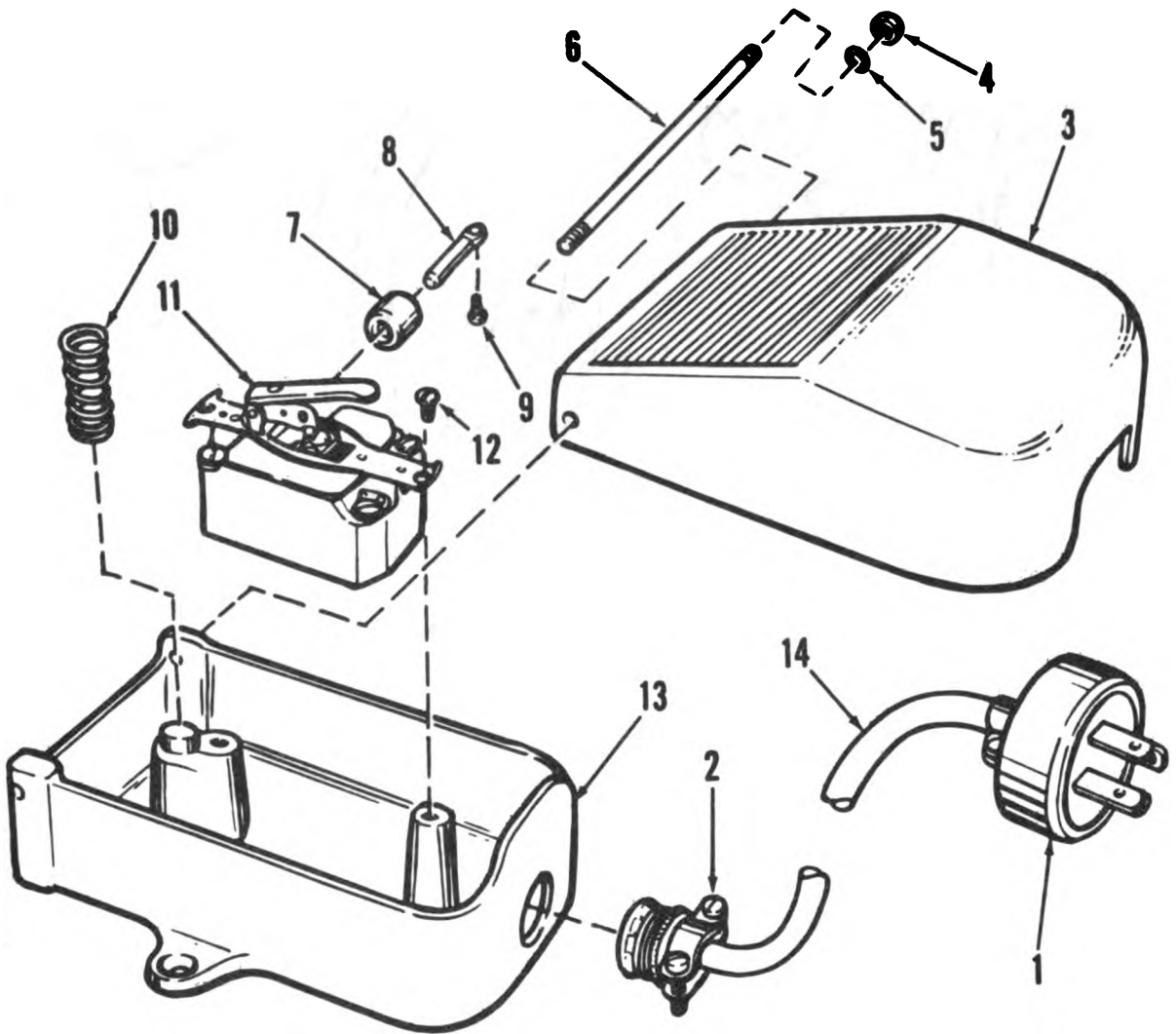
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FIGURE NO. D-3 CONTROL PANEL



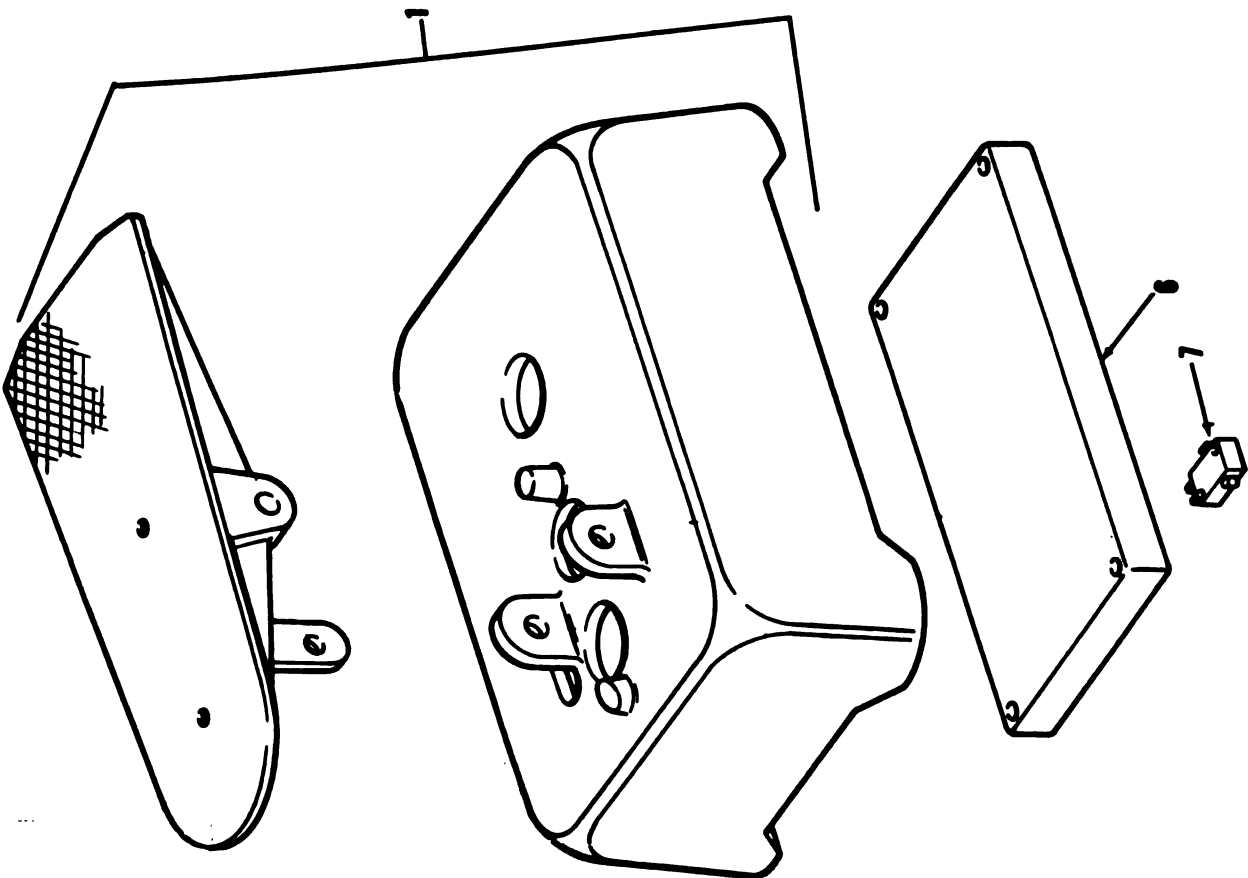
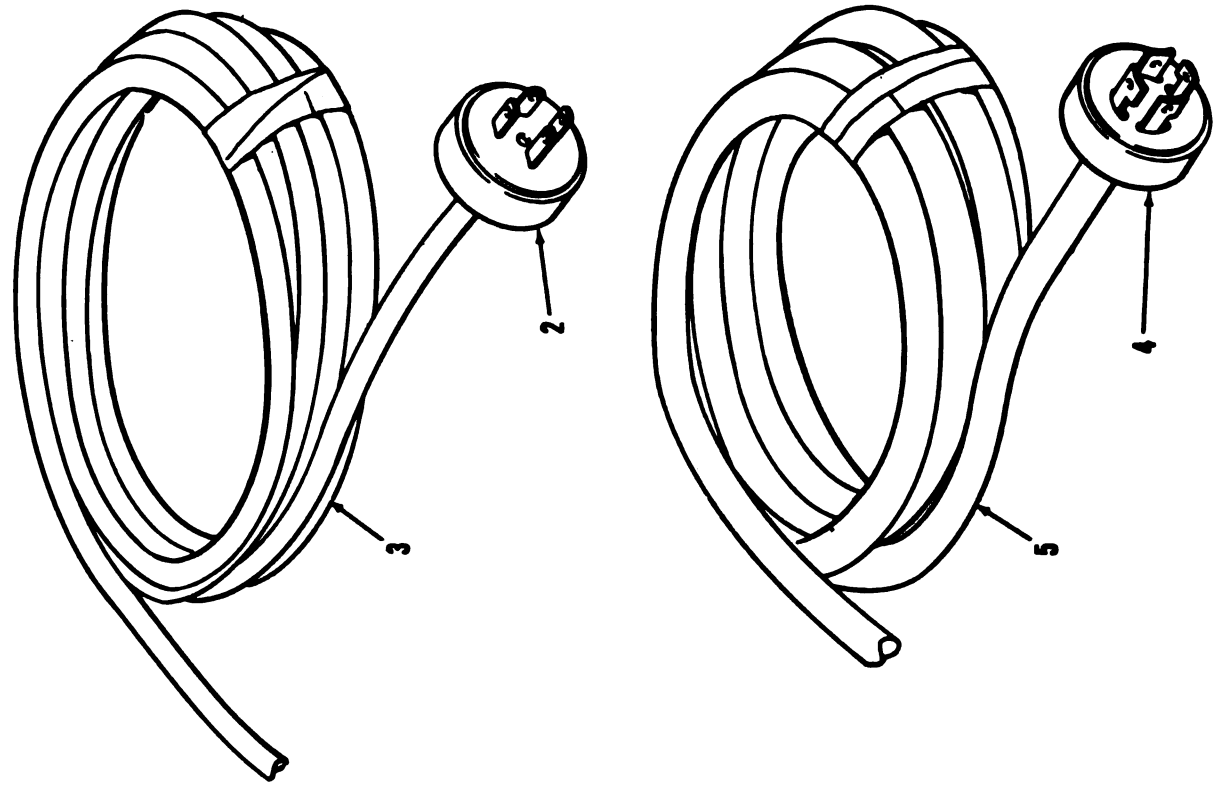
ME 3431-213-14/D-4

FIGURE NO. D-4 CONTROL PANEL



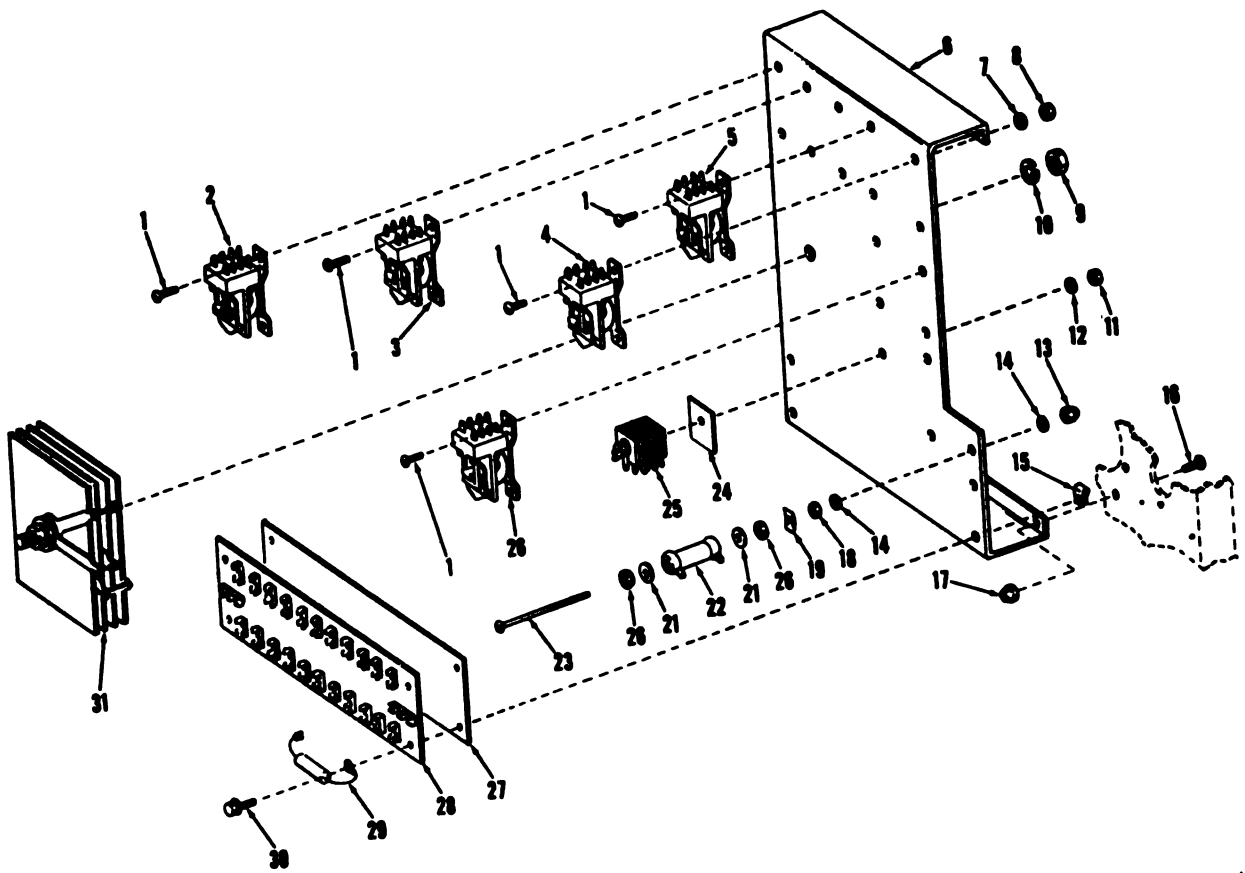
ME 3431-213-14/D-5

FIGURE NO. D-5 FOOT SWITCH



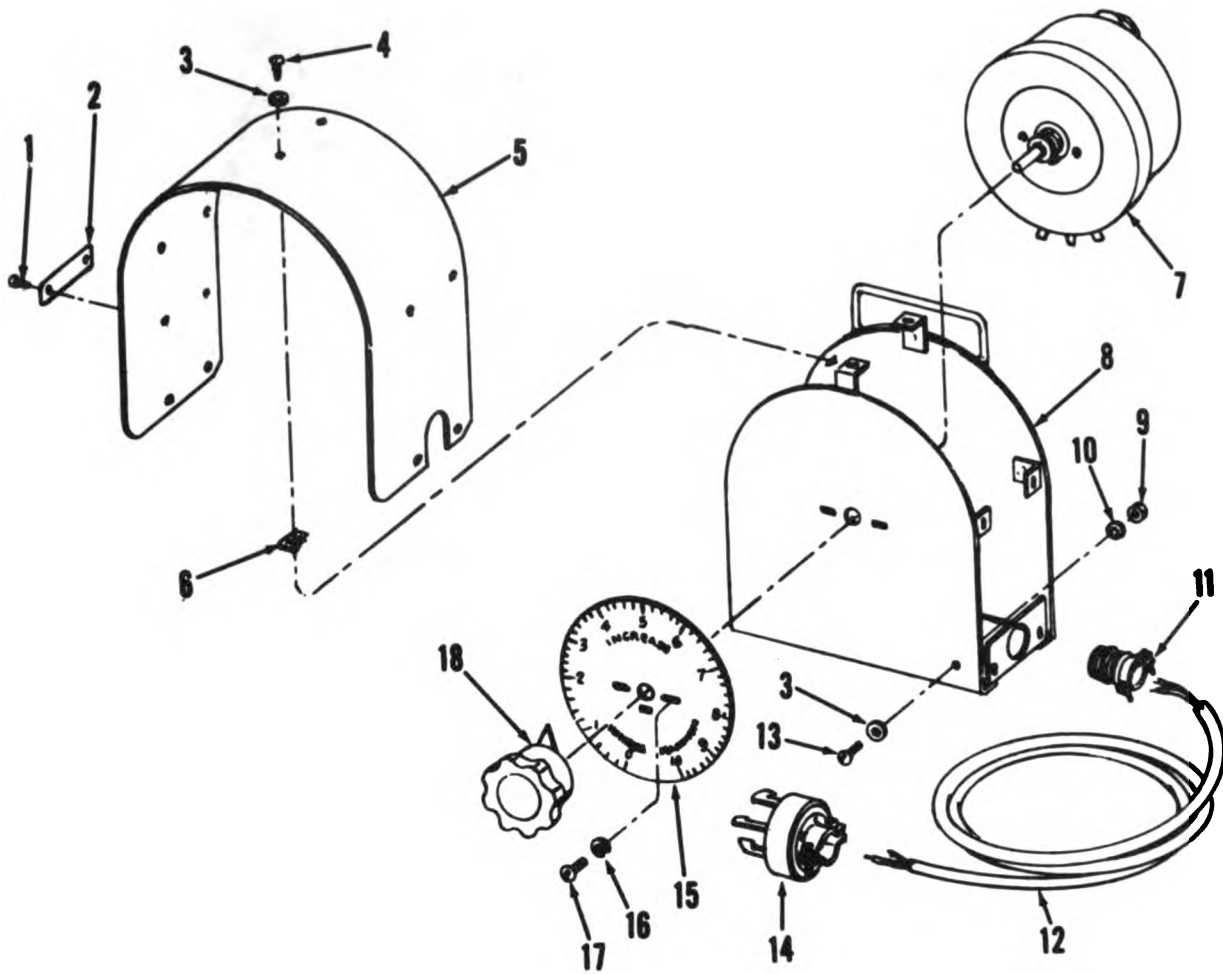
ME 3431-213-14

FIGURE NO. D-6 FOOT SWITCH OUTPUT CONTROL



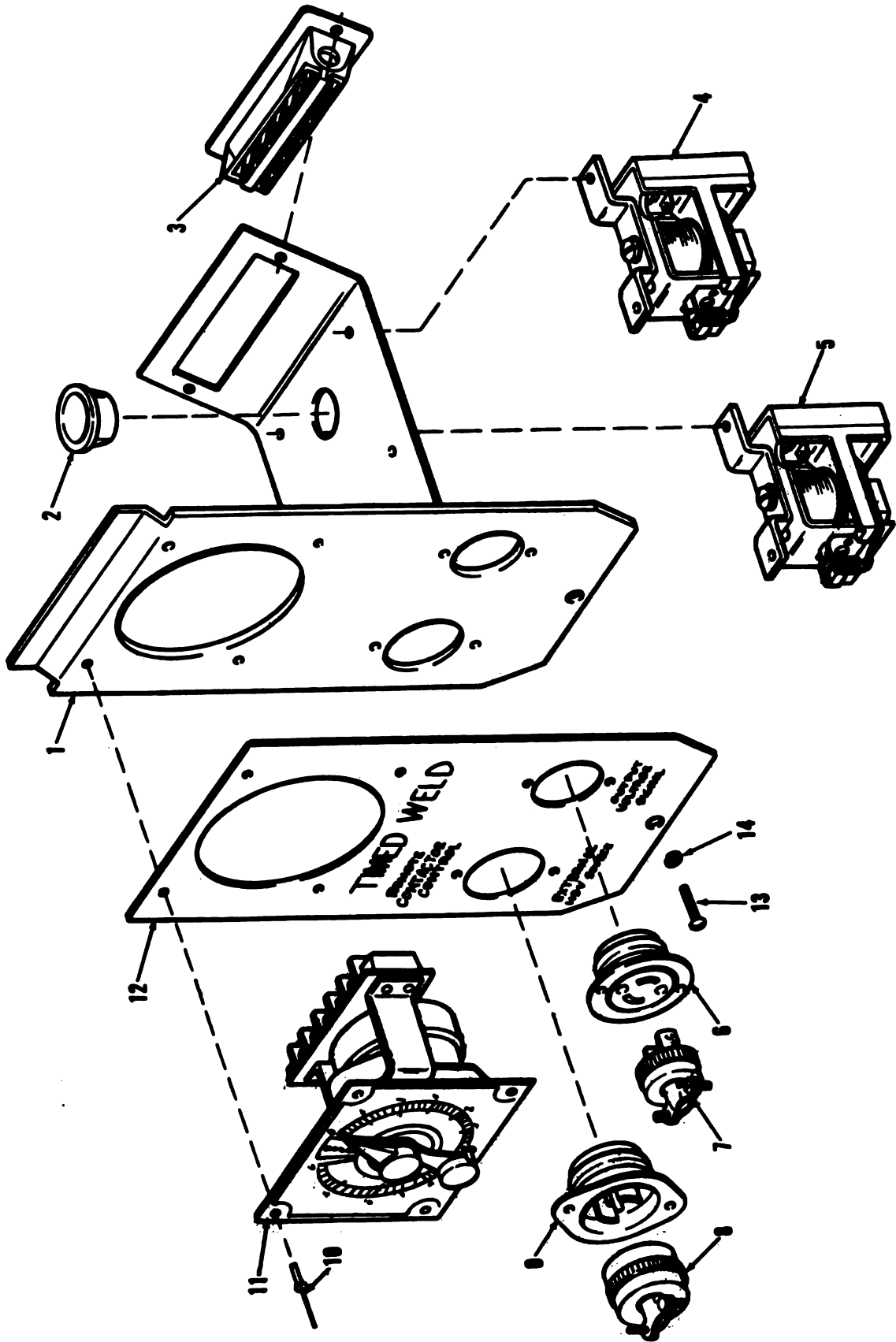
ME 3431-213-14/D-7

FIGURE NO. D-7 RELAY PANEL



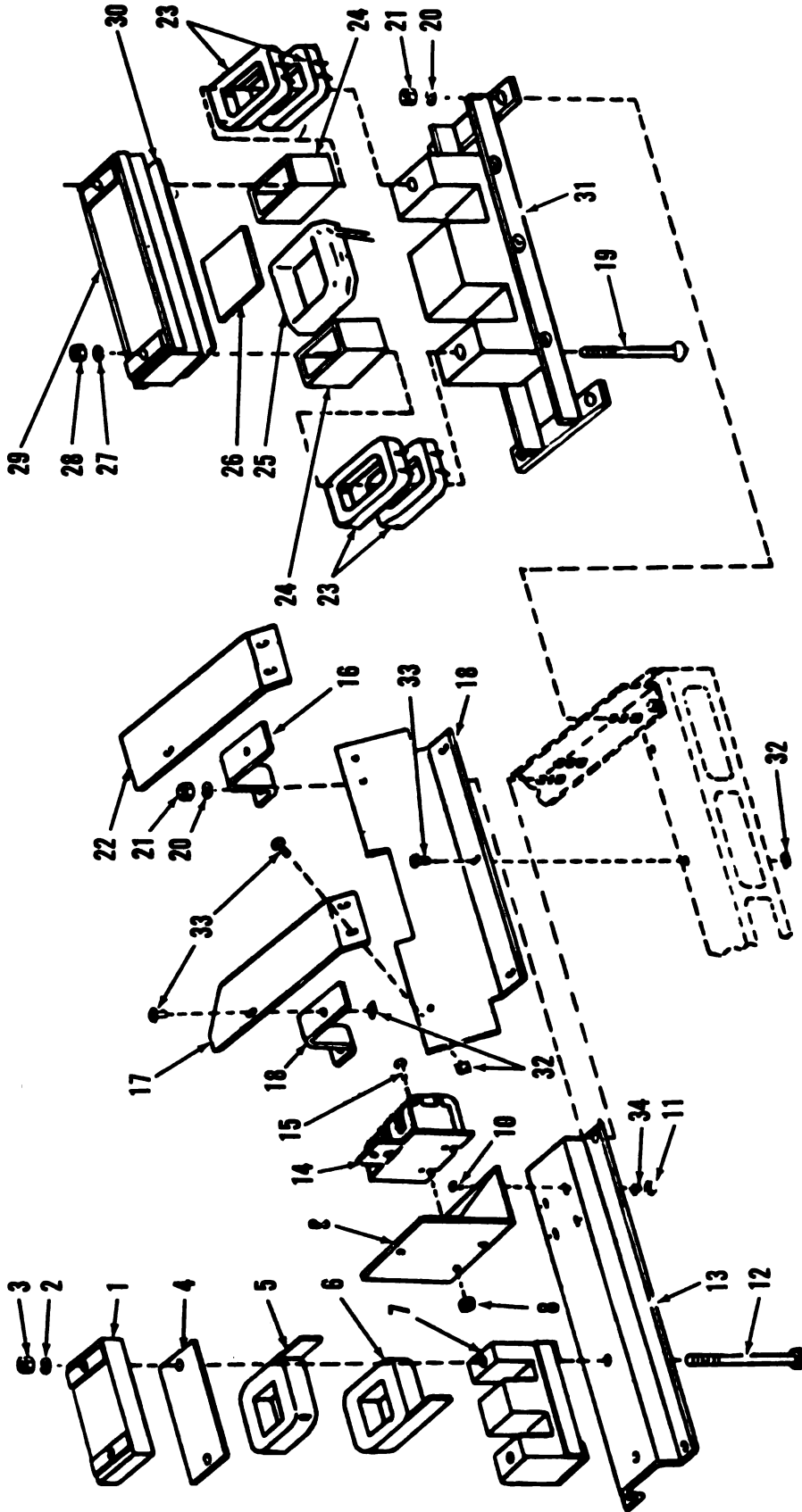
ME 3431-213-14/D-8

FIGURE NO. D-8 REMOTE CONTROL RHEOSTAT



ME 3431-213-14/D-9

FIGURE NO. D-9 TIME WELD KIT



ME 3431-213-14/D-10

FIGURE NO. D-10 REACTORS AND CONTACTORS

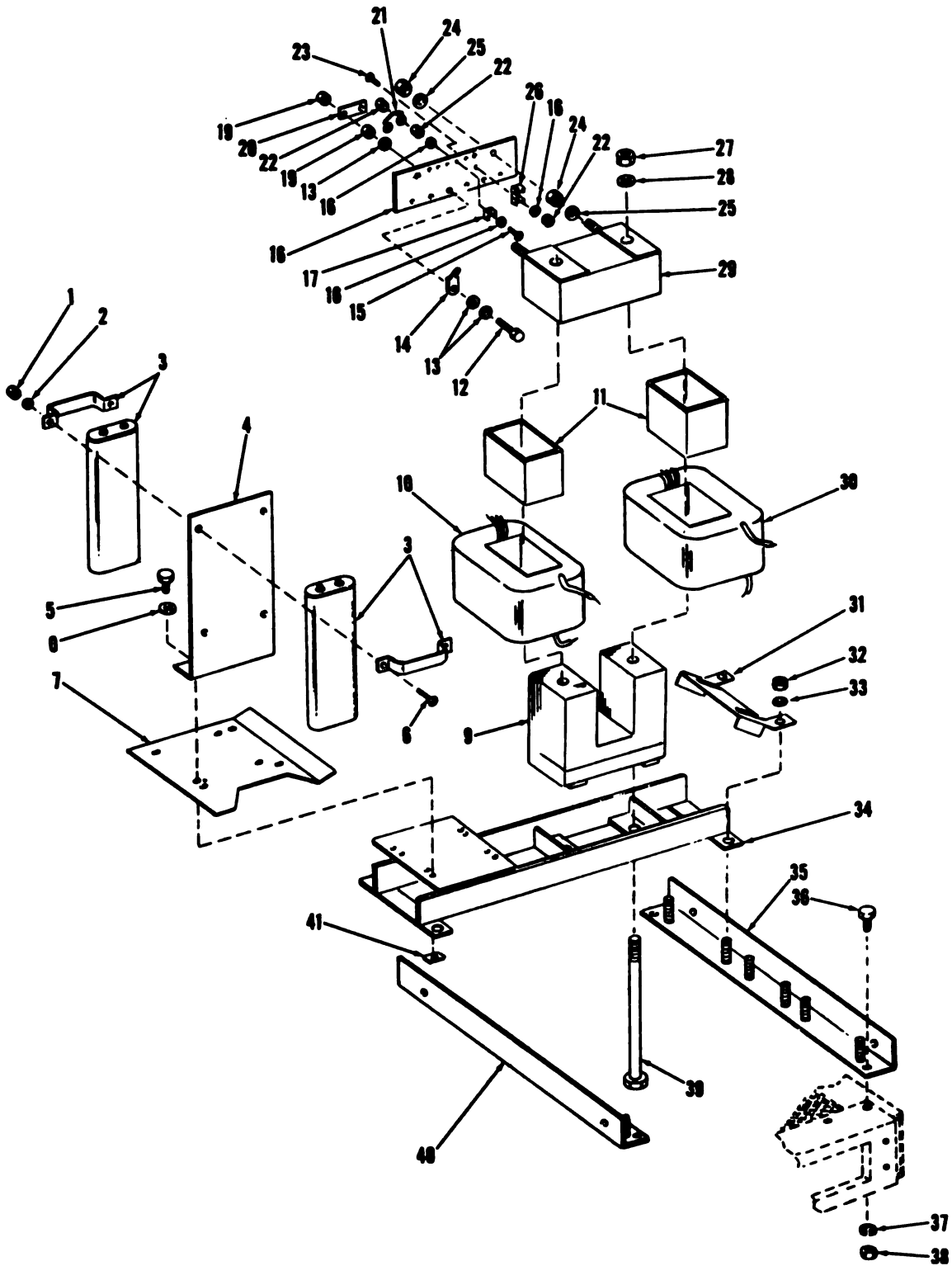
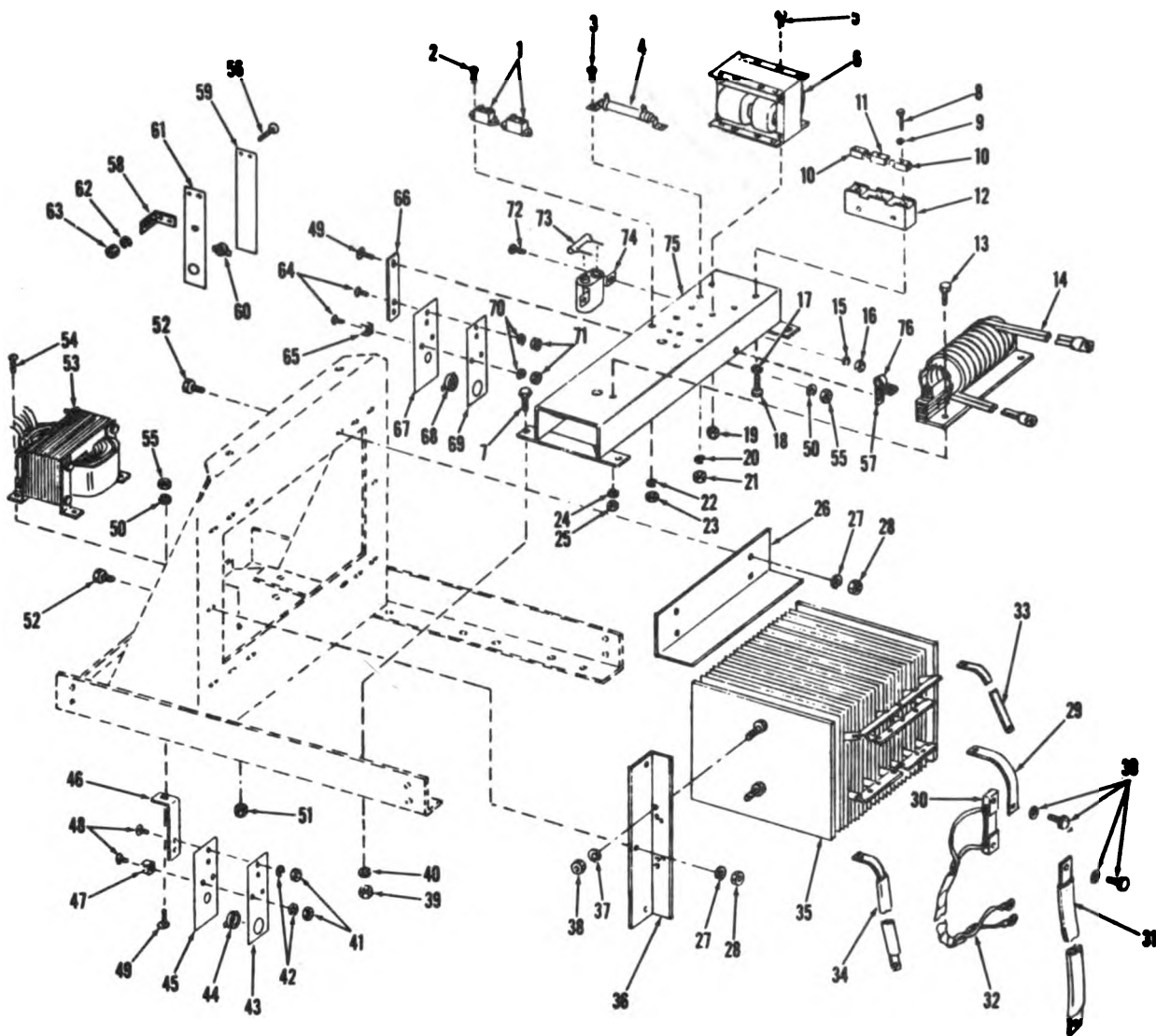


FIGURE NO. D-11 MAIN TRANSFORMER

ME 3431-213-14/D-11



ME 3431-213-14/D-12

FIGURE NO. D-12 MAIN RECTIFIER AND HIGH FREQUENCY COMPONENTS

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