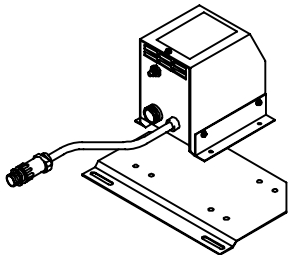


Model: PSA-2

1. Specifications

 Ref. ST-143 353-C	115 To 24 Volts AC Power Supply Adapter (PSA)
	For Connecting GMAW Wire Feeder To Welding Power Source
	24 Volts AC, 8 Amperes Output; Nominal 110 Volts AC Input Power
	Overload Protection; 14-Socket Wire Feeder Receptacle
	Includes Mounting Bracket And 115 Volts AC/Remote Contactor Cord

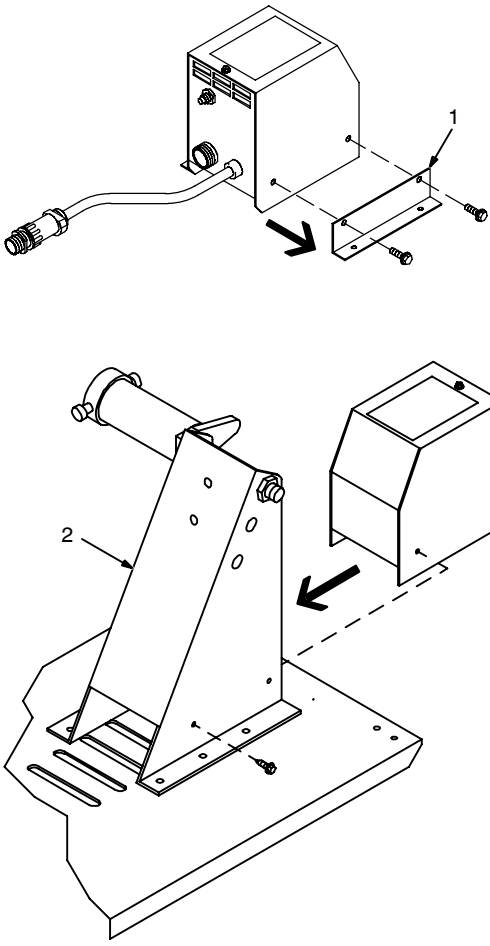
2. Safety Symbol Definitions

	Means Warning! Watch Out! There are possible hazards with this procedure! The possible hazards are shown in the adjoining symbols.		Have only trained and qualified persons install, operate, or service this unit. Call your distributor if you do not understand the directions. For WELDING SAFETY and EMF information, read wire feeder and welding power source manuals.
	Beware of electric shock from welding electrode or wiring. Touching the electrode while in contact with the work or ground can cause electric shock. Always wear dry gloves. Keep all panels and covers closed.		Wear safety glasses with side shields.

3. Installation Onto Wire Feeder







⚠ Disconnect power before installing.

- 1 Side Brackets
- 2 Spool Support

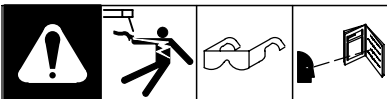
Remove side brackets. Install adapter into spool support using hardware removed from side brackets.

Tools Needed:

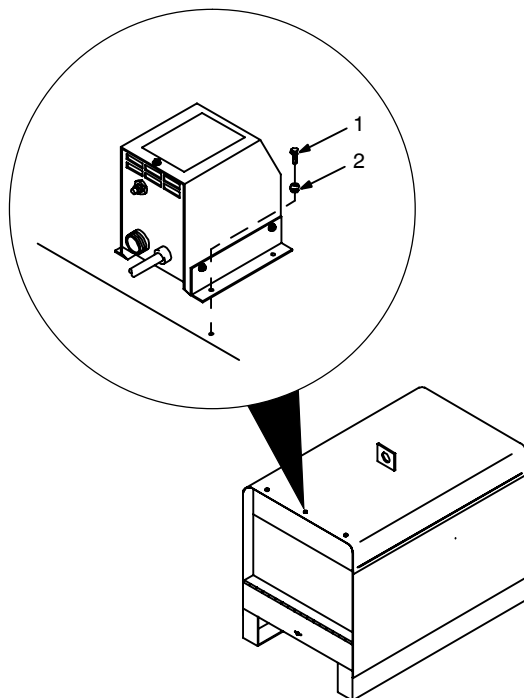
 3/8 in

ST-143 460-C

4. Installation Onto Welding Power Source



Top Mount



⚠ Disconnect power before installing.

Mount adapter so it does not cover labels or air louvers on welding power source.

- 1 Screws From Welding Power Source
- 2 Supplied Grommets
- 3 Bracket
- 4 Locking Nut
- 5 Supplied Screws

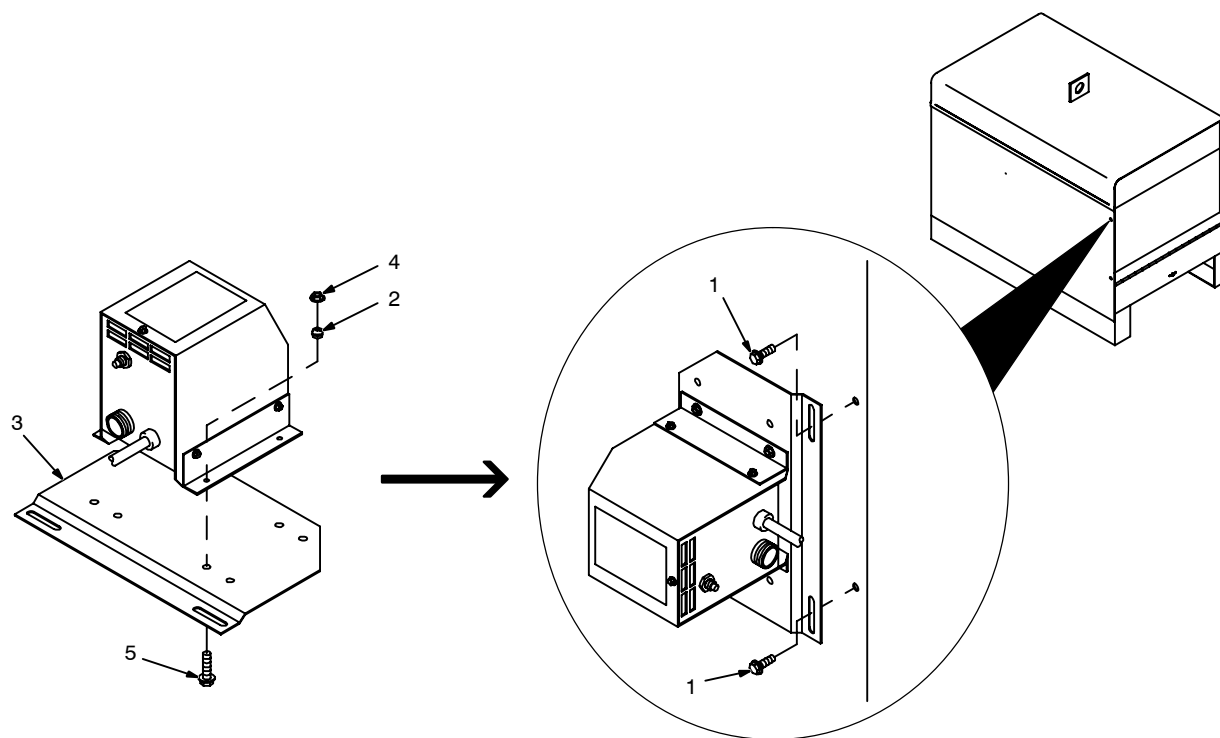
Top Mount:

Insert grommets into bracket, and install adapter using one or two screws as shown.

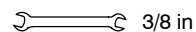
Side Mount:

Install bracket and insert grommets into bracket. Install adapter as shown.

Side Mount



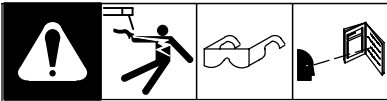
Tools Needed:



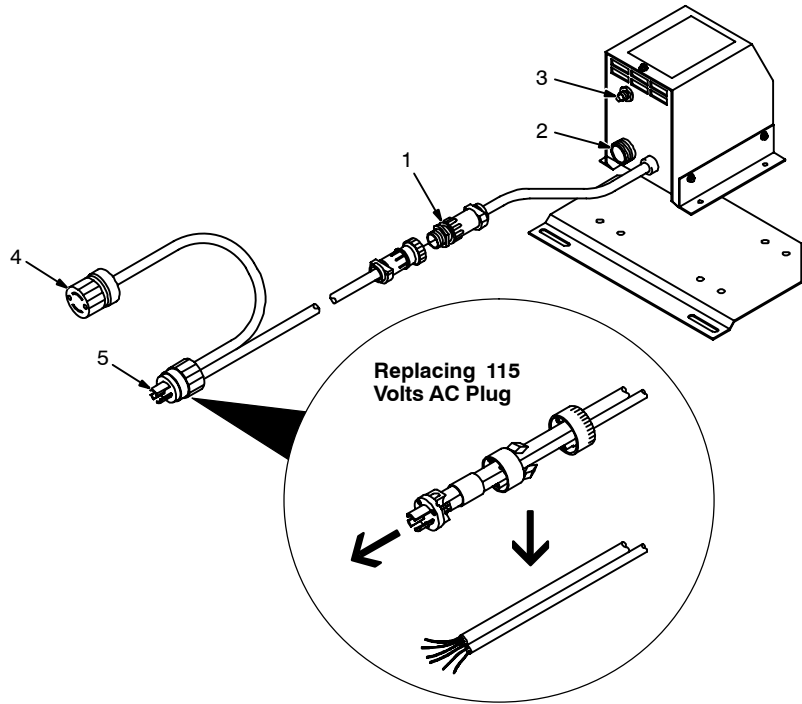
3/8 in

ST-159 574-A / ST-159 573-A

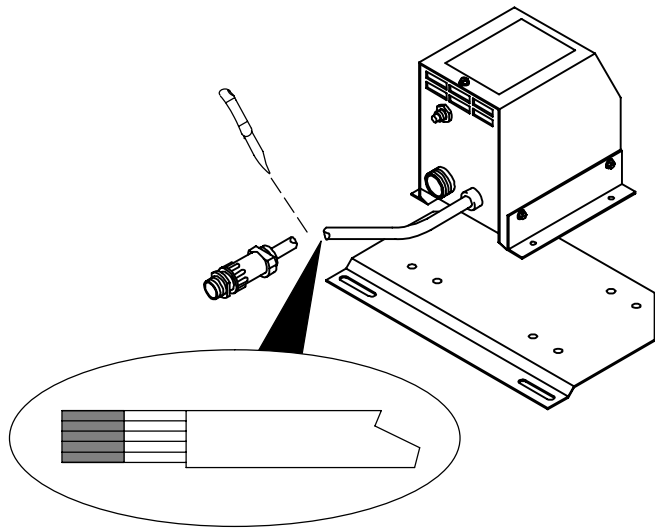
5. Connections And Circuit Breaker CB1



Connections For 115 Volts AC/Remote Contactor Plug And Cord



Connections For Contact Closure-Type Contactor Control



Leads	Connect To
White	115 volts AC common.
Orange And Green	Continuity closure for power source contactor closure.
Black	115 volts AC hot.
Red	Not used. Tape end to insulate from other connections.

Tools Needed:



⚠ Disconnect power before installing.

Standard Connections

- 1 115 Volts AC/Remote Contactor Plug

Use to make 115 volts AC/remote contactor connections.

- 2 Remote 14 Receptacle

Use to make 24 volts AC input power connection to wire feeder.

Pin Information:

- A 24 volts AC with respect to socket G.
- B Contact closure to A completes 24 volts AC contactor control circuit.
- G Circuit common for 24 volts AC circuit.

The remaining pins are not used.

- 3 Circuit Breaker CB1

If CB1 opens, the wire feeder does not work. Reset breaker.

- 4 Remote Contactor Plug

- 5 115 Volts AC Plug

Connect plugs to matching remote contactor and 115 volts AC receptacles on welding power source.

If 115 volts AC plug does not match welding power source receptacle, replace plug as shown.

Replacing 115 Volts AC Plug

Obtain plug to match 115 volts AC receptacle.

Connect leads to new 115 volts AC plug as follows:

Green: Ground.

White: 115 volts AC common.

Black: 115 volts AC hot.

Connect plug to 115 volts AC receptacle.

Contactor Control Connections

⚠ Do not apply 115 volts AC to welding power source requiring only a contact closure for contactor operation. Disconnect power before installing.

If welding power source only needs contact closure to activate contactor, replace existing plug with a suitable plug as follows:

Cut off plug, and strip cord jacket enough to separate leads.

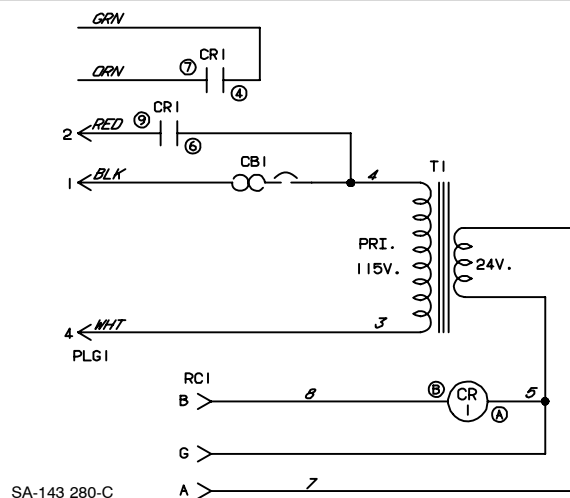
Strip insulation and connect leads to new plug according to table below.

Connect plug to matching receptacle on welding power source.

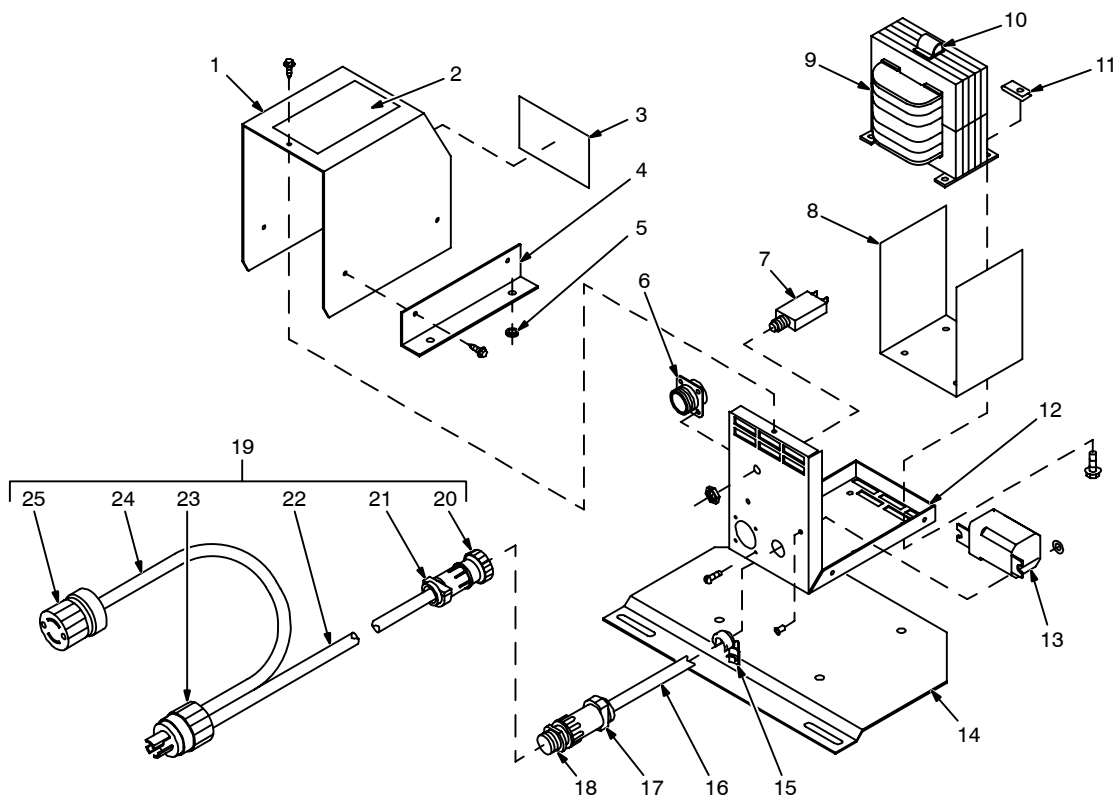
6. Troubleshooting



Trouble
No weld output.
Remedy
Be sure welding power source Power switch is On.
Check cord connections or replace cords, if necessary.
Reset circuit breaker CB1 (see Section 5).
Check welding gun and/or wire feeder.



7. Parts List



ST-148 377-C

Item No.	Part No.	Description (Qty)
----------	----------	-------------------

...	1	.. +143 283 .. Wrapper (1)
...	2	... 131 515 .. Label, Warning (1)
...	3	 Nameplate, (Order By Model And Serial Number) (1)
...	4	... 143 282 .. Angle, Foot (2)
...	5	... 604 311 .. Grommet, .250 Id X .375Mtg Hole (4)
...	6	... 089 799 .. Screw, .250-20 X .500 (4)
...	7	... 152 461 .. Nut, .250-20 (4)
...	8	... 143 976 .. Connector W/Sockets (1)
...	9	... 011 244 .. Circuit Breaker, 2A 240VAC (1)
...	10	... 143 278 .. Insulator (1)
...	11	... 143 485 .. Transformer (1)
...	12	... 059 712 .. Clip, Component (1)
...	13	... 136 190 .. Nut, 10-32 (1)
...	14	... 143 281 .. Enclosure (1)
...	15	... 006 393 .. Relay, 24VAC Dpdt (1)

Item No.	Part No.	Description (Qty)
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...	14	... 123 741 .. Bracket (1)
...	15	... 010 325 .. Bushing, .840 Id X .875Mtg Hole (1)
...	16	... 600 343 .. Cable, No. 16 5/C (Order By Ft) (2ft)
...	17	... 079 531 .. Connector, Clamp Str Rlf (1)
...	18	... 046 958 .. Connector W/Pins (1)
...	19	... 081 964 .. Cable, Interconnecting (Consisting Of) (1)
...	20	... 048 284 Connector & Sockets (1)
...	21	... 079 531 Connector, Clamp Str Rlf (1)
...	22	... 604 571 Cable, No. 18 4/C (Order By Ft) (10ft)
...	23	... 039 687 Plug, Grd 2P3W 15A 277V (1)
...	24	... 049 455 Cable, No. 18 2/C (Order By Ft) (2ft)
...	25	... 039 635 Connector Body, 2P2W 20A 250V (1)

+When ordering a component originally displaying a precautionary label, the label should also be ordered.
BE SURE TO PROVIDE MODEL AND SERIAL NUMBER WHEN ORDERING REPLACEMENT PARTS.