



- Plug the gun cable camlock connector into either the high or low gun female camlock (A). (The HIGH tap produces about 10 volts, typically used for long pins or heavy gauge material. The LOW produces 5 volts, typically used for light gauge material.)
- 2. Plug the switch cable into the switch cable socket (B).
- 3. Plug the ground cable cam lock connector into the ground female camlock (C).

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Connect the PBF70 to a 100 amp power supply. (208-230 volts - 60 cycle). The PBF70 unit uses 208-230 volt single phase. To wire to 208-230 volt single phase, the green lead is ground and the white and black leads are power. It is suggested that the unit be permanently wired into a 100 amp due to inherent inrush current, it is recommended to use the during the fastening operation. next size gauge wire over codes when possible.

To use your work bench as a welding table, set the PBF70 alongside the work bench. Cover the bench top with a copper sheet, (.025 inch) which will act as a permanent ground when the duct work is placed on the table top. Attach the ground clamp to the duct work or copper bench top. The Clip Pins will quickly weld every time with no burn marks or wasted pins due to misfires.

Where the duct is too large to put on a bench, snap the ground clamp onto the duct and secure the insulation guickly by welding the Clip Pins inside or outside of the ducts as required. Eliminate the heat mark on the duct by using the simple "heat sink" included on opposite the side of weld.

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The PBF70 has been designed and built to withstand rugged shop usage. The Indicator lights on the front panel will help you to diagnose minor problems. If your PBF70 fails to operate, follow this simple procedure to find the defective component.

- 1. Pull the trigger and watch the lights, the green light (24 volts) and then the red light (220 volts) should flash on and off.
- 2. If only the green light comes on, go to step 4
- 3. If neither light comes on, press the WELD CYCLE TEST switch on the front panel.
 - a. If both lights flash and the transformer does not hum go to step 5.
 - **b.** If both lights flash and the transformer hums, the problem is either a bad trigger switch or bad switch cable.
 - c. If only the green light flashes, go to step 4
 - d. If neither light flashes, replace the 24 volt transformer.
- **4.** Replace the weld activator.
- The problem is probably a bad weld transformer. Call technical service for further assistance. (1-800-899-3876)

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The timer dial facing you on the front panel of the unit, determines the duration of the weld cycle. For maximum efficiency of the unit, the weld cycle should be set for the shortest length of time necessary to provide a good weld. An excessive amount of time does not improve the weld. On the contrary, the resulting weld may not be an acceptable one. It is recommended that at the start of a production run, using a given length of pin with a given gauge of metal, the operator take a few moments to determine the minimum timer setting to perform the job and leave the timer at that point.

NOTE: There is a common misconception that the longer the weld time, the stronger the weld. This is not true. It is important that you follow the above instructions for maintaining the minimum weld time.



The PBF70 has been designed and built to withstand rugged shop usage. Constant, trouble-free operation is assured with a minimum of maintenance. The GUN TIP, the GROUND CLAMP and all CABLE CONNECTIONS should be kept clean to maintain a good electrical contact. Wire brush the parts to disconnect box fitted with 100 amp slow blow fuses. Note: remove any oxidation or adhesive that may have accumulated

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Clip Pins are welded as easily as "A", "B", "C".



Position the Clip pin on the Magnetic tip of hand gun.



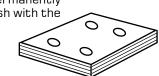
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Press down through the insulation, twist the gun, pull the trigger. Do not release the trigger until the timer cycle has ended.



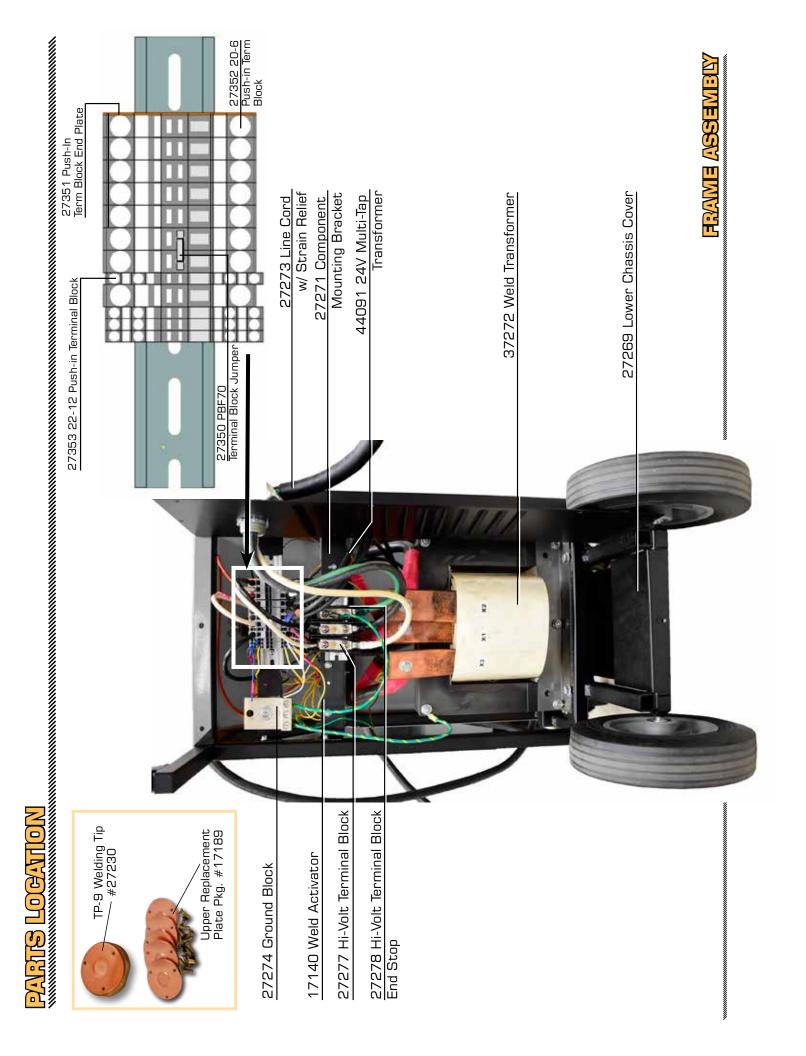


The Clip Pins are permanently welded in position flush with the insulation.



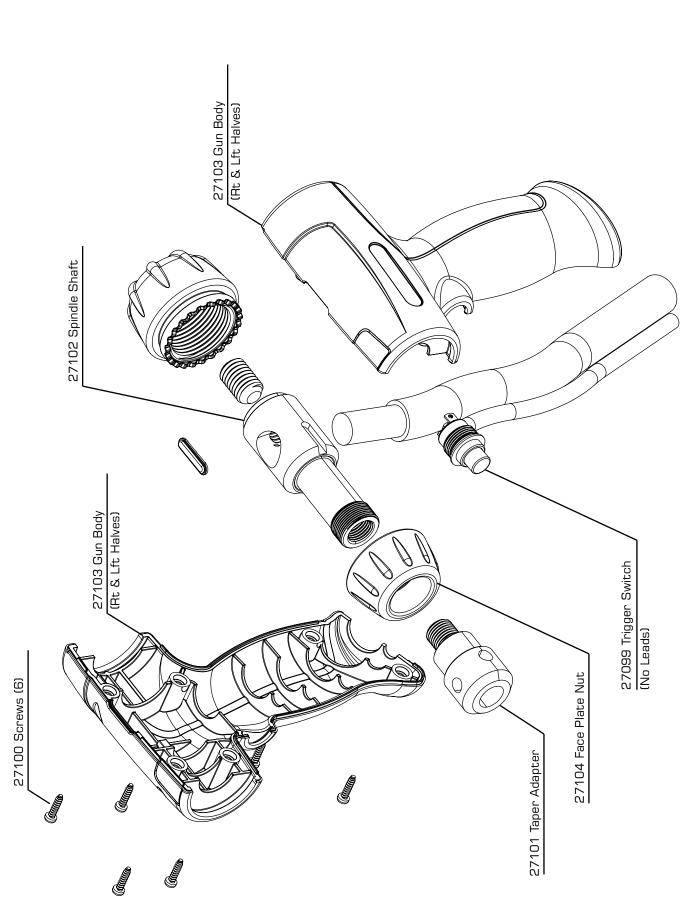




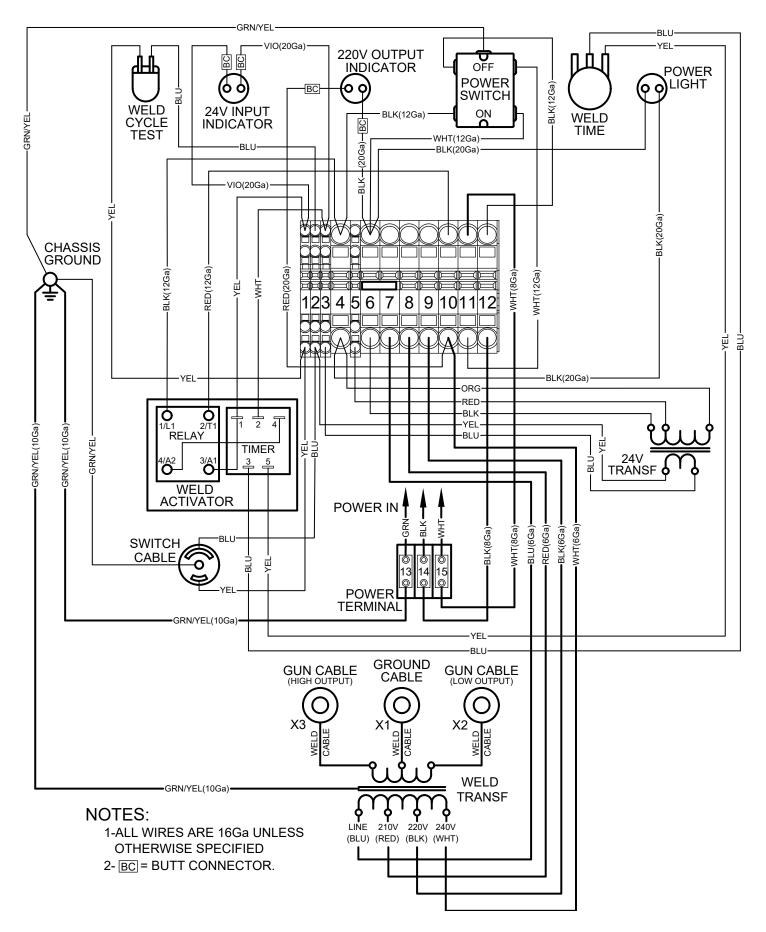




PARTS LOGATION



PBF70 WIRING DIAGRAM



NOTES

PEF70 PARTS & SPECIFICATIONS

1 04		
	ITEM	DES
	17049 17140 17288 17309 17320 17327 27054 27054 27099 27100 27101 27102 27103 27268 27268 27269 27270 27271 27272 27273 27274 27275 27274 27275 27276 27277 27278 27316 27326 27340 27345 27350 27351 27352 27353 39110 44091	Male Weld Swit Unive Pote Swit Gun Face Spin Gun Face Fema TP-9 Chas Lowe Com Weld Line Grou UWG Hi-Vo Gree Red Whe Grou Lexa Sock Grou PBF 22-1 Test 24V

EM	DESCRIPTION
EM 7049 7140 7288 7309 7327 7327 7327 7099 7101 7102 7269 7273 7274 7276 7277 7278 7316 7326 7327 7277 7278 7316 7325 7343 7351 7353 7351 7353 7351 7353 7351 7353 7351 7353 73555 73555 73555 73555 735555 73555 73555 735555 735555 73	Male Camlock Weld Activator Switch Cable Plug Universal Amber Light Power Switch Potentiometer Switch Cable Receptacle Gun Extension Set 8 ft. Trigger Switch - No Leads Thread Form Screw - 6pk Tapered Adapter Spindle Shaft Gun Body (Rt & Left) Face Plate Nut Female Flush Mount Camlock TP-9 Welding Tip Chassis Lower Chassis Cover Wheel - Front Caster Comp Mounting Bracket Weld Transformer Line Cord Ground Block UWG10 Universal Weld Gun 10ft UWG16 Universal Weld Gun 10ft Hi-Volt Terminal Block Hi-Volt Terminal Block End Stop Green Status Light Red Status Light Weld Potentiometer Knob Wheel - Rear Ground Cable only Lexan Shield Socket Cover Ground Cable Assembly PBF70 Terminal Block End Plate 20-6 Push-in Terminal Block Ze-12 Push-in Terminal Block Test Switch 24V Multi-Tap Transformer

DURO DYNE

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