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MF70 PINSPOTTER ITEM# 27180



DURO

MACHINERY

Connect the MF70 to a 60 amp power supply. (208-230 volts – 60 cycle). The MF70 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 60 amp disconnect box fitted with 60 amp circuit protection.

MF70 AS A BENGH TOOL

To use your work bench as a welding table, set the MF70 alongside or on top of 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 MF70 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.

ERING MF70 TO THE WORK

Where duct is too large to put on a bench, snap the ground clamp onto the duct and secure the insulation quickly by welding the Clip Pins inside or outside of the ducts as required

SERVICE:

The MF70 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 MF70 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 transformers do not hum go to step 5.
 - **B.** If both lights flash and the transformers hum, 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 24 volt transformer.
- 4. Replace the weld activator.

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 MF70 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 remove any oxidation or adhesive that may have accumulated during the fastening operation.

INSTALLING GLIP PINS

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



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



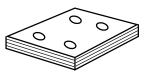


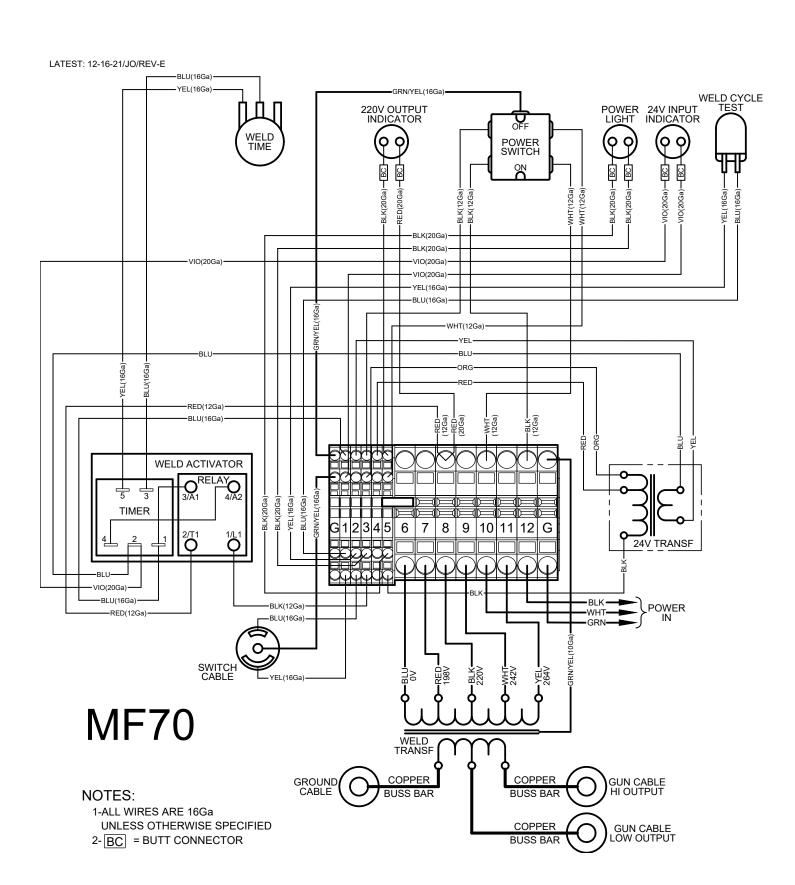
Press down through the insulation, twist the gun, and pull the trigger. Do not release the trigger until the timer cycle has ended.

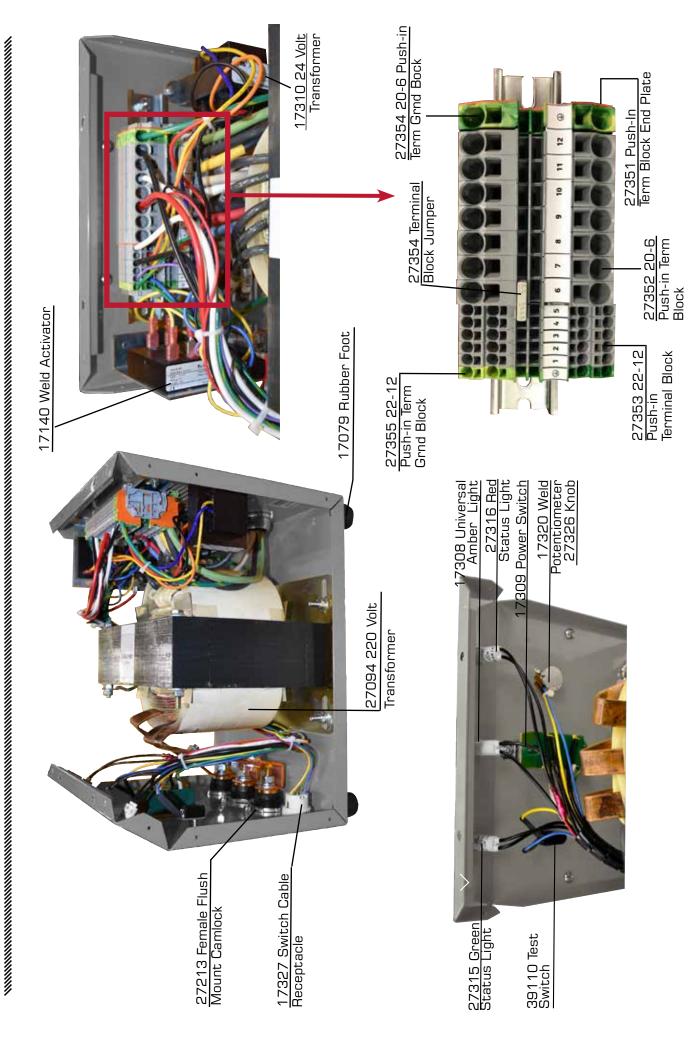




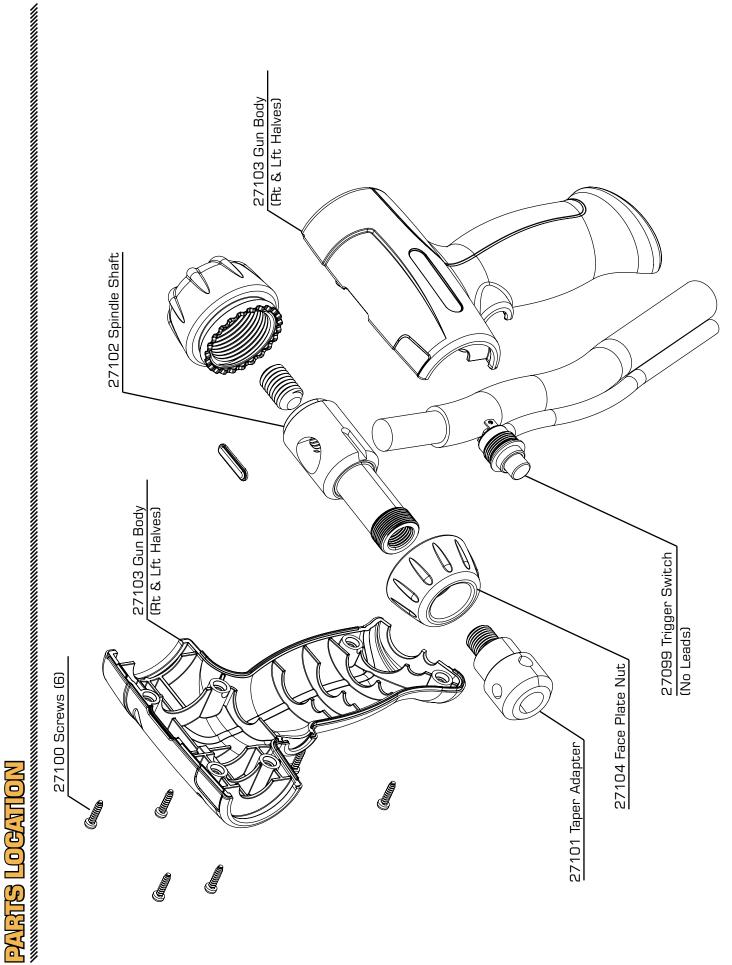
The Clip Pins are permanently welded in position flush with the insulation.











MF70 PARTS & SPECIFICATIONS

ITEM DESCRIPTION 17049 Male Camlock 17079 Rubber Foot 17140 Weld Activator 17288 Switch Cable Plug 17308 Universal Amber Light 17309 Power Switch 17320 Weld Potentiometer 17327 Switch Cable Receptacle 27005 TP-2 Tip 220 Volt Transformer 27094 Ground Clamp Assembly - 10ft 27095 27099 Trigger Switch - No Leads Thread Form Screw - 6pk 27100 27101 Tapered Adapter 27102 Spindle Shaft Gun Body (Rt & Left) 27103 27104 Face Plate Nut Female Flush Mount Camlock 27213 27217 Line Cord 27230 TP-9 Tip Line Cord - Strain relief 27253 27315 Green Status Light 27316 Red Status Light 27318 Case Top Cover with Handle 27322 Top Handle Weld Potentiometer Knob 27326 27343 Socket Cover 27351 Push-In Term Block End Plate 20-6 Push-in Term Block 27352 27353 22-12 Push-in Terminal Block MF Terminal Block Jumper 27354 22-12 Push-in Term Grnd Block 27355 27356 20-6 Push-in Term Grnd Block 39110 Test Switch 24V Multi-Tap Transformer 44091

