

Connect the MF-12A to a 60 amp power supply. (208-230 volts – 60 cycle). The MF-12A 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.

MF-12A AS A BENGH TOOL

To use your work bench as a welding table, set the MF-12A 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 MF-12A 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.

BANG MF-12A 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. Eliminate the heat mark on the duct using the simple "heat sink" supplied on the opposite side of the weld.

The MF-12A has been designed and built to with sond rugged shop usage. The Indicator lights on the front panel will help you to diagnose minor problems. If your MF-12A 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 rea 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.
- **5.** 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 run num weld time.

Included with your MF-12A is a simple "heat sink" tool that looks somewhat like a cookie cutter. This tool, when placed behind the point of weld on bare metal, will eliminate any nerk on the metal by dissipating the heat generated from the point of the weld. The use of a copper sheet on the work bench will also eliminate this mark.

The NF 12A has been designed and built to withstand runged shop. 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.

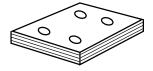


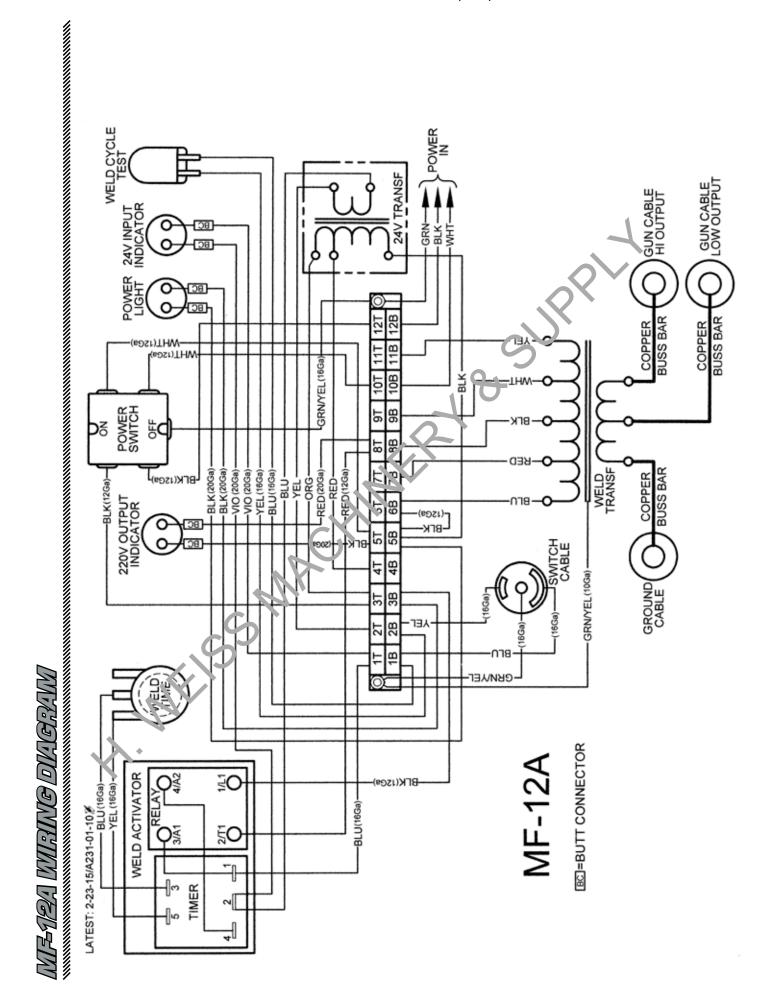
Press down through the insulation, twist the gun, and pull the trigger. Do not release the trigger until the timer cycle has ended.

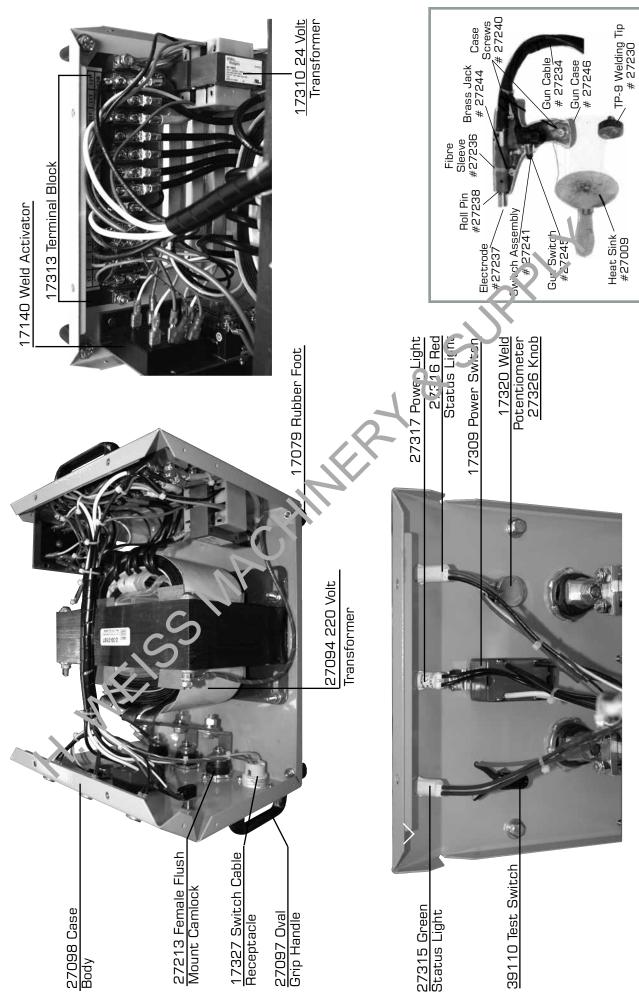




The Clip Pins are permanently welded in position flush with the insulation.







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MF-12A PARTS & SPECIACATIONS

ITEM	DESCRIPTION	ITEM	DESCRIPTION
17049 17079 17140 17288 17309 17313 17320 17327 27005 27009 27091 27092 27093 27093 27094 27095 27096 27097 27098	Male Camlock Rubber Foot Weld Activator Switch Cable Plug Power Switch Terminal Block Weld Potentiometer Switch Cable Receptacle TP-2 Tip Heat Sink Gun or Ground Cable only - 10ft Gun Switch Assembly - 11ft Cable & Electrode Assembly - 10ft 220 Volt Transformer Ground Clamp Assembly - 10ft Gun Cable Assembly - 10ft Oval Grip Handle MF12-A Case Body Female Flush Mount Camlock	27230 27231 27236 27237 27238 27240 27244 27245 27246 27253 27315 27316 27317 27318 27318 27320 27322 27326 27343 39110	TP-9 Tip Electrode Assembly Fibre Sleeve Electrode Roll Pin Case Screws Brass Jack Gun Switch Gun Case Line Cord - Strain relief Green Status Light Power Light Case Ton Cover with Handle Cast Side Panel for Handle Welr Potentiometer Knob Socket Cover Test Switch
27217	Line Cord	44091	24V Multi-Tap Transformer





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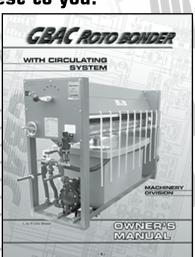
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