

MF-12A PINSPOTTER



MACHINERY DIVISION

owner's Manual

<u>ELEGTRICAL REQUIREMENTS</u>

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.

MMER ADJUSTMENT

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.

BRING MF-12A TO THE WORK MAINTENANCE

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.

SERVICE

The MF-12A 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 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 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 problem is probably a bad weld transformer. Call technical service for further assistance. (1-800-899-3876)

The MF-12A has been designed and built to withstand rugged 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

INSTAUING GUP PINS

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



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

the fastening operation.

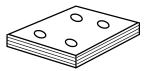


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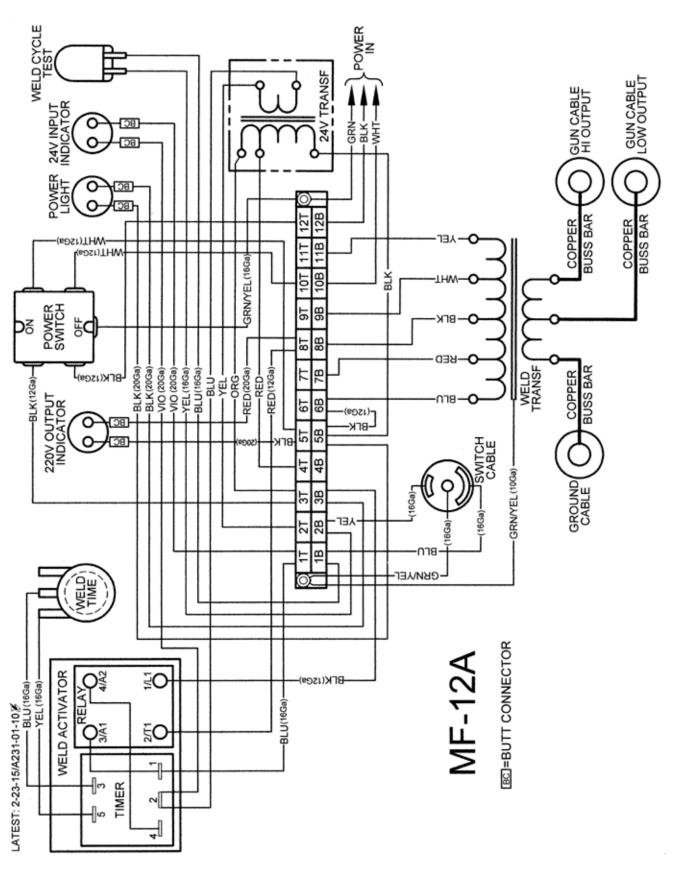
Press down through the insulation, twist the gun, and pull the trigger. Do not release the trigger until the timer cycle has ended.



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

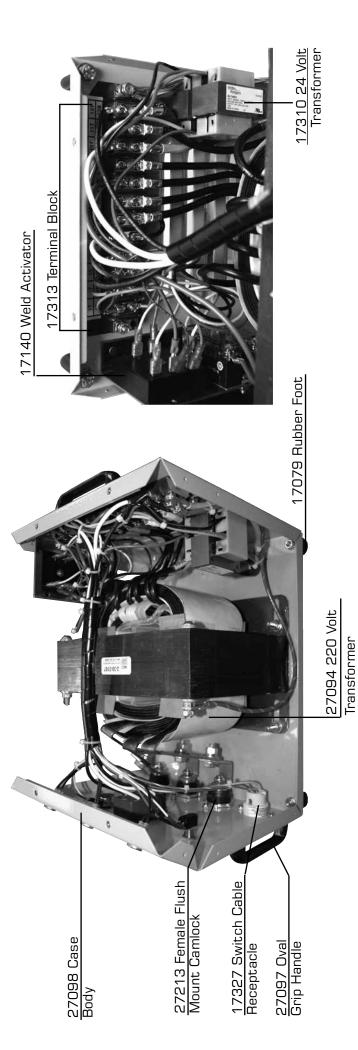


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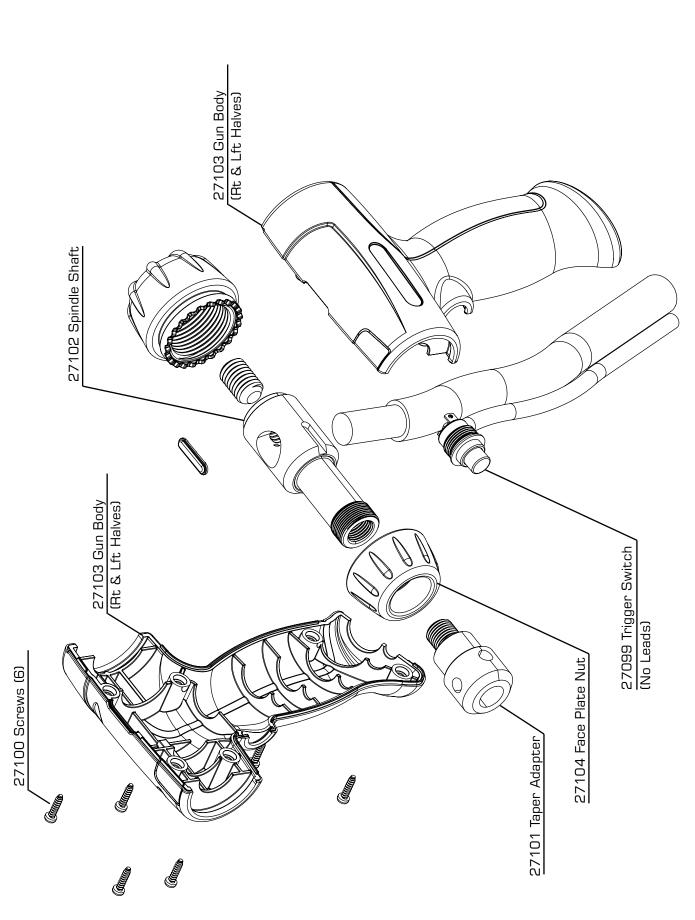
PARTS LOGATION







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TEM	DESCRIPTION	ITEM	DESCRIPTION
17049	Male Camlock	27104	Face Plate Nut
17079	Rubber Foot	27213	
17140	Weld Activator	27217	Line Cord
17288	Switch Cable Plug	27230	TP-9 Tip
17308 17309	Universal Amber Light Power Switch	27231 27236	Electrode Assembly Fibre Sleeve
17313	Terminal Block	27230	Flectrode
17320	Weld Potentiometer	27238	Boll Pin
17327	Switch Cable Receptacle	27240	Case Screws
27005	TP-2 Tip	27244	
27091	Gun or Ground Cable only - 10ft	27245	Gun Switch
27092	Gun Switch Assembly - 11ft	27246	Gun Case
27093	Cable & Electrode Assembly - 10ft	27253	Line Cord - Strain relief
27094	220 Volt Transformer	27315	Green Status Light
27095	Ground Clamp Assembly - 10ft	27316	Red Status Light
27096	Gun Cable Assembly - 10ft	27318	Case Top Cover with Handle
27097	Oval Grip Handle	27320	Case Side Panel
27098	MF12-A Case Body	27322	Top Handle
27099	Trigger Switch - No Leads	27326	Weld Potentiometer Knob
27100 27101	Thread Form Screw - 6pk	27343 39110	Socket Cover Test Switch
27102	Tapered Adapter Spindle Shaft	44091	24V Multi-Tap Transformer
27102	Gun Body (Rt & Left)	44031	



NOTEC
NOTES



Please Visit Our Website

www.durodyne.com

for the most current product information.

WELD CYCLE TEST

