

MODEL 909

H e a t S e a l M a c h i n e s



PUT IT ON!

THIS MACHINE IS DESIGNED TO BE OPERATED BY ONE OPERATOR ONLY

Congratulations!

Your selection of the Insta Graphic Systems® heat seal machine is a sound business decision. Insta Graphic Systems® equipment is the result of the highest quality engineering and time-tested design. Your new machine combined with Insta's reputation of innovation in the heat sealing field, insures the continuing capability of delivering the best decorated garments possible.

This manual describes installation, operation, and maintenance procedures for your new 900 series machine, as well as easy to use instructions for on the spot maintenance.

Your 900 series machine will have a long trouble free life. Read this manual. Keep it with your machine, it's your key to proper operation and lasting service.

Installation



DOMESTIC - 900 SERIES

Use a **separate** 15 amp AC circuit. Only industrial extension cords with proper wire size should be used: size 16/3 wire for distances up to 25 feet, and size 14/3 for distances up to 50 feet.



INTERNATIONAL - 900 SERIES

Use a **designated** 16 amp AC circuit. Only industrial extension cords with proper wire size (2.5 sq. mm) shall be used.

Limited Machine Warranty

Insta Graphic Systems (IGS) warrants this heat seal machine, when operated under normal conditions, to be free from manufacturing defects in material and workmanship for a period of one year on parts (lifetime on the heating element) and 90 days on labor.

This warranty will be effective only when IGS authorizes the original purchaser to return the product to the factory in Cerritos, California,

freight prepaid, and only when the product upon examination has proven to be defective.

This warranty does not apply to any machine that has been subjected to misuse, negligence or accident.

IGS shall not be liable for the injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product.

No claim of any kind shall be greater in amount than the sale price of the product or part to which claim is made.

This is the sole warranty given by the company, it is in lieu of any other warranties, expressed or implied, in law or in fact, including the warranties of merchantability and fitness for a particular use, and is accepted as such by the purchaser in taking delivery of this product.

Operation

1. It is recommended that you review the "How to Apply Instructions" (in our Product Information Sheet) before beginning heat sealing operations.
2. Push **ON/OFF** switch (on the side of the machine) to **ON** position.
3. Press the Power button on the controller.
4. Set desired temperature.
5. Allow the machine to warm up until the selected temperature is reached.
6. Set the desired pressure by adjusting the air pressure regulator on the back of the machine.
7. Select the desired timing cycle.
8. Place the substrate on lower platen, smoothing out all wrinkles.
9. Position transfer or lettering on substrate.
10. Depress both start buttons, one on each side of the machine, simultaneously (Optional foot pedal may be used). At this point the machine operation is fully automatic. The upper platen moves downward, seals the transfer to the substrate and then releases automatically at the end of the selected timing cycle.



NOTE

For safety reasons the buttons (or pedal) must remain depressed until the upper platen is in contact with the lower platen.

FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY

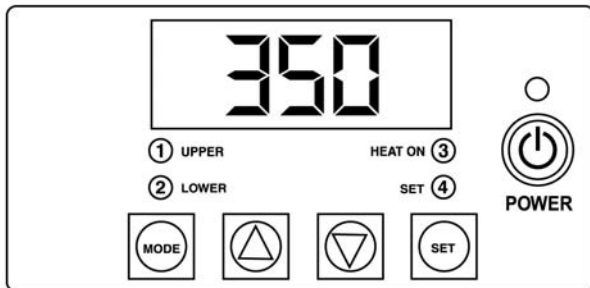


CAUTION

Do not place hands between the platens after activating.

11. The **DISENGAGE** button may be pushed at anytime to deactivate the machine.

Operation Timer/Temperature Control



Solid State Controller

This controller has three (3) control features:

1. Temperature - Temperature may be set from 125-450°F (52-232°C).
2. Time - Time may be set from 1 second to 10 minutes.
3. Counter - Cycle counter counts the number of applications from 1 to 9999 (see additional Notes - Counter).

Controller Operation

1. If the temperature is not being displayed, press the **MODE** button until temperature is displayed.
2. Push and hold **SET** button and simultaneously push UP (↑) or DOWN (↓) arrow buttons to the desired temperature setting.
3. Press the **MODE** button until time is displayed.
4. Push and hold **SET** button and simultaneously push UP (↑) or DOWN (↓) arrow buttons to the desired timer setting.

ADDITIONAL NOTES:

Temperature



NOTE

Fahrenheit/Centigrade (Celsius) Conversion

The temperature controller can be programmed to display either °F or °C.

To change:

Press the **MODE** button until the temperature is displayed, then push and hold the **SET** button for 10 seconds.

Timer

- The controller has a count down timer which automatically disengages (opens) the machine at the completion of the application.
- Timer display is minutes:seconds. Range is **00:00** to **10:00**, Colons (:) flash while timer is running.

NOTE



The **DISENGAGE** switch (located in the center of the instrument panel) may be pushed at any time to deactivate the machine. The cycle will stop immediately, and the timer will reset.

Counter

The controller has a built in cycle counter.

- Press **MODE** button until the counter is displayed.
- Counter display range is 0000 to 9999.
- To reset the cycle counter, display the counter reading, then push and hold both UP (↑) and DOWN (↓) arrow buttons for 3 seconds until the counter resets to zero (**0000**) on the display.

FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY

Preventive Maintenance Suggestions

The Insta Graphic Systems® heat seal machines are relatively maintenance free. For long trouble-free life, the following preventive maintenance instructions should be followed:

1. Do not heat seal items such as buttons, pins, snaps, or zippers which tend to cut the silicone rubber pad or scratch the Teflon heat platen.
2. Periodically clean the Teflon-coated heat platen with a non-abrasive piece of cloth. Stubborn stains may be cleaned, **when platen is cool**, with mineral spirits.
3. To prevent soiling of garment, periodic wiping of the entire exterior machine, including platens, with a clean rag is recommended. If necessary, use mineral spirits for cleaning a **cold** machine. Since mineral spirits are flammable, use precautions and keep away from sparks, flame, or hot heat platen.

General Maintenance

It is recommended that you have the following items available:

- A. Regular screw driver
- B. Phillips head screw driver
- C. Small adjustable wrench
- D. Needle nose pliers with insulated handle
- E. Set of Allen wrenches

With the above items you should be able to accomplish most repairs.



WARNING

Power cord replacement should be supplied from the manufacturer only (because it requires a specially prepared cord).


Specifications


120 V AC	50/60 Hz	8.4 Amps	1000 Watts
230 V AC	50/60 Hz	4.0 Amps	920 Watts


Weight 62 Pounds (28.1 KG)


FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY


Safety Summary


- 


WARNING
In case of power cord damage, do not attempt to repair or replace the power cord. Contact the manufacturer or the local distributor.
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WARNING
Avoid touching hot surfaces while operating the machine.
- 

CAUTION
During normal operation, the base of the machine needs to be installed or placed above the wall socket.
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CAUTION
The recommended input pressure shall not exceed 100 psi. The operating pressure is from 30-100psi.
- 

CAUTION
The operation may be terminated by pressing the **DISENGAGE** switch.
- 

CAUTION
The machine is to be operated by one person only.
- 

CAUTION
When moving, servicing, or cleaning the machine make sure the power cord is removed from the wall socket and sufficient time has been allowed for the machine to cool down.

International Symbols

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Power Off
- 

Power On
- 

Hot Surface
- 

Risk of Electrical Shock
- 



Protective Earth Terminal
- 

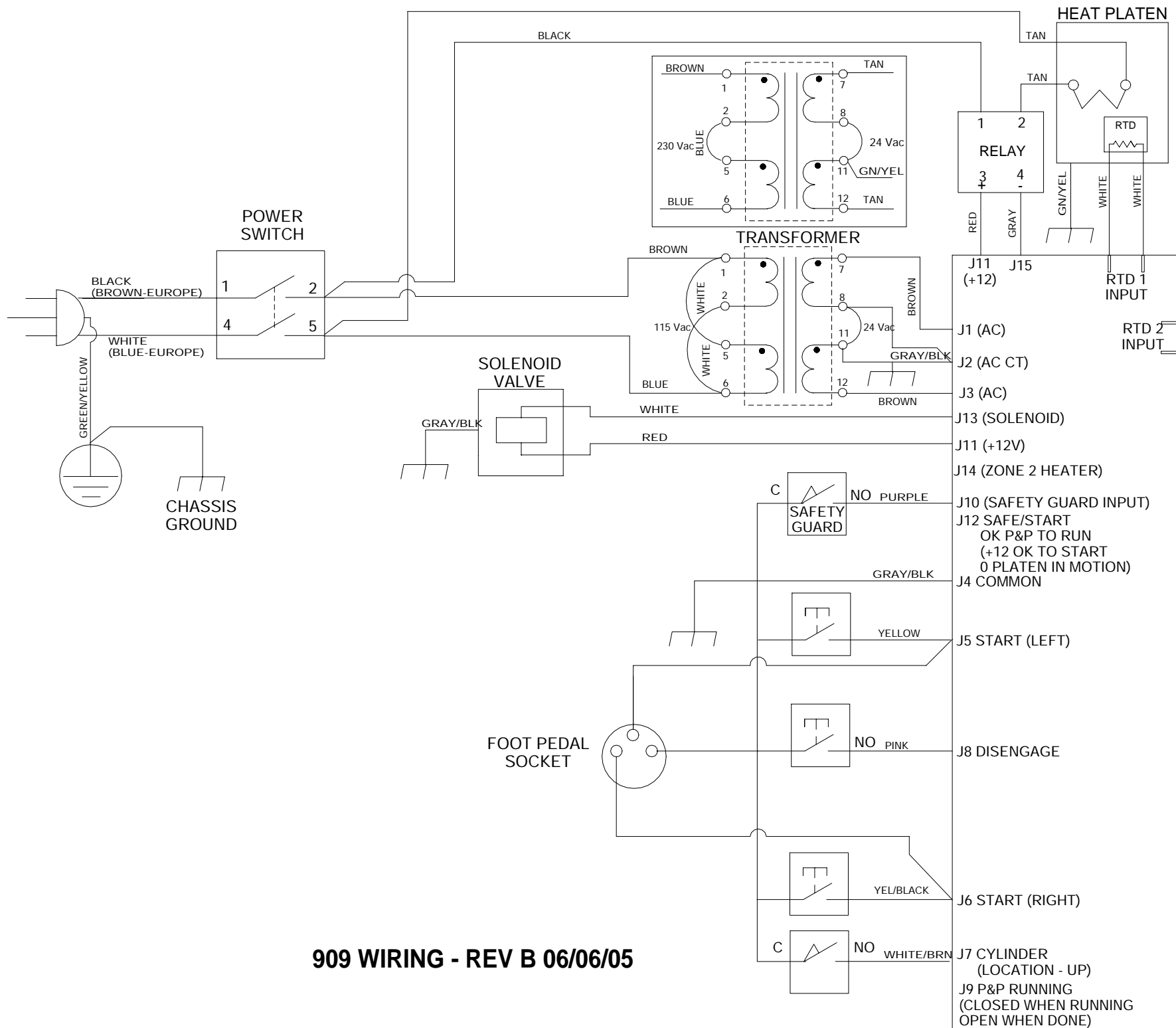
Start Action
- 

Disengage
- 

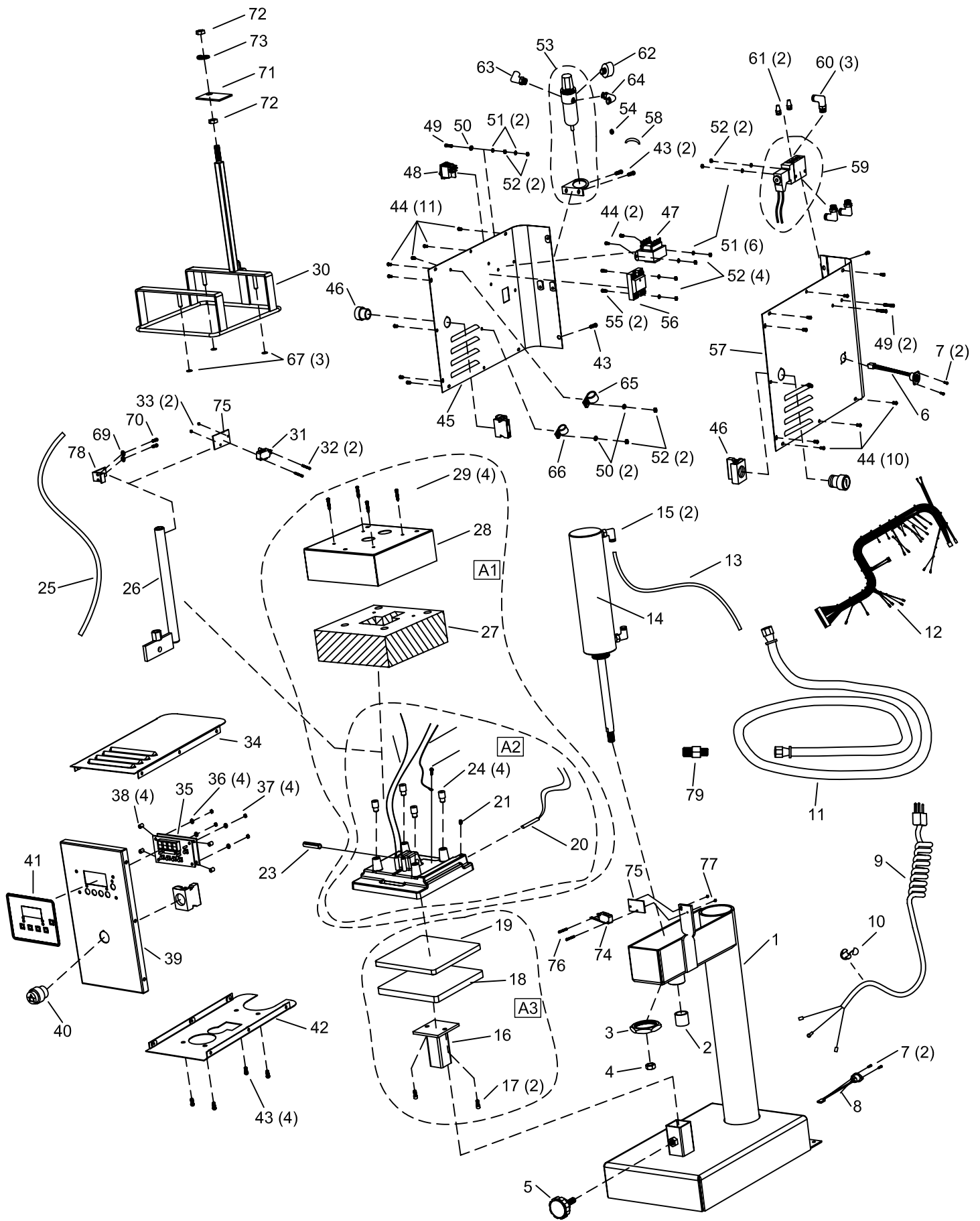
Ground
- 

Caution - Warning

Model:			
Part No.:			
Serial No.:			
Volts:	Hz	Watts: W	MFG: 2004
Made in U.S.A. www.instagraph.com Patent No:	INSTA GRAPHIC SYSTEMS 5642 Borwick Avenue South Gate, CA 90280		
Service: (562) 861-2566 (800) 426-3609			



909 WIRING - REV B 06/06/05



909 EXPLOSION DRAWING REV. B - 06/06/05

		MODEL	MODEL
		909	909
NO	PART NAME	120V AC	230V AC
01	BASE ASSEMBLY	MPB90109	MPB90109
02	BUSHING, GUIDE POST	MPSB070	MPSB070
03	NUT, JAM	MHJN21	MHJN21
04	NUT, JAM 1/2-20	MHNHJ1220	MHNHJ1220
05	KNOB,LOWER PLATEN	MH4210H	MH4210H
06	WIRE HARNESS (PICK 'N' PLACE)	MPPW909C3	MPPW909C3
07	SCREW, RD HD 4-40 X 0.5" LG	MHSR44012	MHSR44012
08	WIRE HARNESS (FOOT SWITCH)	MPPW909C2	MPPW909C2
09	CORD, POWER (USA) 120V	MPPW141	MPPW142
10	STRAIN RELIEF (CABLE)	MPS90014	MPS90014
11	HOSE, AIR ASSEMBLY	MPPA005	MPPA005
12	WIRE HARNESS (CONTROLLER)	MPPW909C1	MPPW909C1
13	TUBING, BLACK AIR LINE 1/4"	MPT90116	MPT90116
14	CYLINDER, AIR 2-1/2" X 6"	MPC90015	MPC90015
15	AIR FITTING,90 DEG 1/4X1/4	MHAQ69P4X4	MHAQ69P4X4
16	SUPPORT, LOWER PLATEN	MPS90111	MPS90111
17	SCREW, SOCKET HD 1/4-20 0.5 LG	MHSSH142012	MHSSH142012
18	PLATEN, LOWER	MPP90110	MPP90110
19	PAD, SILICONE 6 X 6	MPPP026	MPPP026
20	SENSOR, TEMP. REPLACEMENT KIT	MPPS210	MPPS210
21	SCREW, SET 10-32 X 3/16	MHSST1032316	MHSST1032316
23	PIN, ROLL 3/8 X 1.50 LG	MHPR38112	MHPR38112
24	INSULATORS, SPACER (4/SET)	MPSI089	MPSI089
25	SLEEVING, PVC SIZE 'O'	MPS90113	MPS90113
26	POST, GUIDE ASSEMBLY	MPP90102	MPP90102
27	FIBERGLASS INSULATION 400	MPSP249	MPSP249
28	SHROUD, UPPER PLATEN	MPS90112	MPS90112
29	SCREW, PAN HD #10 X 1.00" LG	MPSS143	MPSS143
30	GUARD ASSEMBLY	MPG90103	MPG90103
31	SWITCH, MICRO	MPPS044	MPPS044
32	SCREW, ROUND HEAD #4-40 X 5/8	MHSR44058	MHSR44058
33	NUT, HEX 4-40	MHNH440	MHNH440
34	PANEL, TOP COVER	MPP90108	MPP90108
35	CONTROLLER, TEMPERATURE	MPC90115	MPC90115
36	WASHER, INT. TOOTH LOCK #6	MHWLIT6	MHWLIT6
37	NUT, HEX 6-32	MHNH632	MHNH632
38	SPACER, NYLON 0.166 ID X1/4 LG	MH110969111	MH110969111
39	PANEL, FRONT	MPP90107	MPP90107
40	SWITCH, DISENGAGE ASS'Y (BLK)	MPPS713	MPPS713
41	LABEL,OVERLAY CONTROL PANEL	MPL90005	MPL90005
42	PANEL, BOTTOM	MPP90104	MPP90104
43	SCREW,BUTTON HD 1/4-20X1/2	MHSB142012	MHSB142012
44	SCREW, PAN HD 8-32 X .375" LG	MHSP83238	MHSP83238
45	PANEL, WRAP-AROUND LEFT	MPP90105	MPP90105
46	SWITCH, START ASS'Y	MPPS703	MPPS703
47	TRANSFORMER	MPPT700	MPPT700
48	SWITCH, POWER	MPPS060	MPPS060
49	SCREW, PAN HD 8-32 X 1" LG	MHSP8321	MHSP8321

		MODEL	MODEL
		909	909
NO	PART NAME	120V AC	230V AC
50	WASHER, #8 SAE	MHWSAE8	MHWSAE8
51	WASHER, INTERNAL LOCK #8	MHWLIT8	MHWLIT8
52	NUT, HEX 8-32	MHNNH832	MHNNH832
53	REGULATOR, AIR FILTER ASS'Y	MPR90101	MPR90101
54	GROMMET, 5/16-1/2	MH9600K31	MH9600K31
55	SCREW, PAN HD 8-32 X 1/2 LG	MHSP83212	MHSP83212
56	RELAY, SOLID STATE	MPSR2450	MPSR2450
57	PANEL, WRAP-AROUND RIGHT	MPP90106	MPP90106
58	LABEL, MAX INPUT PRESSURE	MPPL008	MPPL008
59	SOLENOID, AIR ASSEMBLY	MPS90100	MPS90100
60	FITTING, AIR 90° 1/8" X 1/4"	MHAQ69P4X2	MHAQ69P4X2
61	MUFFLER	MPM90117	MPM90117
62	GAUGE, AIR	MPG90118	MPG90118
63	FITTING, AIR INLET (ELBOW)	MPF90119	MPF90119
64	FITTING, AIR 90° 1/4 NPT X 1/4 TUBE	MPF90120	MPF90120
65	CLAMP, CABLE 9/16	MHCC916	MHCC916
66	CLAMP, CABLE 7/16	MHCC716	MHCC716
67	RETAINER, PUSH 1/4	MPR90121	MPR90121
68	BRACKET, MICROSWITCH	MPB90122	MPB90122
69	WASHER #10	MHSAE10	MHSAE10
70	SCREW, PAN HD 10-32 X 1/4 LG	MHSP103214	MHSP103214
71	PLATE, MICROSWITCH	MPP90123	MPP90123
72	NUT, HEX 5/16	MHNNH516	MHNNH516
73	SPLIT WASHER 5/16	MHWL516	MHWL516
74	MICRO SWITCH	MPS90018	MPS90018
75	MICRO SWITCH INSULATOR	MH700214	MH700214
76	SCREW, RD HD #4-40 X 3/4	MHSR44034	MHSR44034
77	NUT, HEX #4-40	MHNNH440	MHNNH440
78	PICK-N-PLACE MICRO SWITCH BRACKET	MPB90127	MPB90127
79	FITTING, AIR 1/4 NPT BRASS	MPPF085	MPPF085
A1	PLATEN, HEAT ASSEMBLY	MPP9091A	MPP9092A
A2	PLATEN, HEAT (WIRING ONLY)	MPP9091W	MPP9092W
A3	PLATEN, LOWER ASSEMBLY	MAP90114	MAP90114

INSTA GRAPHIC SYSTEMS®

13925 E. 166th Street • Cerritos CA USA 90702-7900

Service: (800) 426-3609 • Fax: (562) 861-1519 • (562) 861-2566 • Sales: (800) 421-6971 (562) 404-3000 • Fax: (562) 404-3010
<http://www.instagramh.com>