

INSTA™

INSTA GRAPHIC SYSTEMS



MODEL 418

OPERATION AND MAINTENANCE MANUAL

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.



WARNING
Hot Surface. Avoid contact.



CAUTION
During normal operation, the base of the machine needs to be installed or placed above the wall socket.



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



CAUTION
To reduce the risk of electric shock and injury to persons, disconnect from power supply before servicing and /or cleaning.



CAUTION
Do not handle the plug with wet hands, or machinery under wet conditions.



NOTE
This machine uses a fuse to protect against risk of fire and electrical shock. When replacing the fuse, use a fuse of the same type and rating.

International Symbols



Power Off



Power On



Hot Surface



Risk of Electrical Shock



Protective Earth Terminal



Ground



Caution – Warning



Wet conditions

Congratulations!

Your selection of the Insta Graphic Systems heat seal machine is a sound business decision. Insta 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 substrates possible.

This manual describes installation, operation, and maintenance procedures for your new 418 series machine, as well as easy to use instructions for on- the- spot maintenance.

Your 418 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 – 418 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 – 418 SERIES

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



IMPORTANT

The appliance must be plugged into a proper receptacle of the proper size and rating. Equally important the line voltage must be able to accommodate this appliance as well as *other appliances operating on this circuit.*

Specifications

MODEL 418

120 V AC, 50/60 Hz, 1000 Watts, 8.3 Amps
230 V AC, 50/60 Hz, 1000 Watts, 4.4 Amps

Weight Model 418 29 Pounds (13.2 KG)

Degree of Protection

IP (Ingress Protection) rating according to IEC 60529.

NOTE

IEC 60529 does not specify sealing effectiveness against the following: mechanical damage of the equipment; the risk of explosion; certain types of liquid conditions, e.g. those that are produced by condensation; corrosive vapours; fungus; vermin

IP54 = IP
1st Digit 5
2nd Digit 4

1 st Digit	Protection from solid objects	2 nd Digit	Protection from moisture
0	Non protected	0	Non protected
1	Objects greater than 50mm	1	Dripping water
2	Objects greater than 12mm	2	Dripping water when tilted up to 15 deg.
3	Objects greater than 2.5mm	3	Spraying water
4	Objects greater than 1mm	4	Splashing water
5	Dust protected	5	Water jets
6	Dust tight	6	Heavy seas
--	---	7	.15m – 1m immersion
--	---	8	1m + submersion

Operation

1. Turn the power on by pressing the **POWER** button on the controller.
2. Set desired temperature and time. Open the upper platen arm to its fully open position, away from the lower platen. (See Solid State Controller Section)
3. Allow the machine to warm up until the selected temperature is reached.
4. Set the desired pressure by adjusting the pressure knob on top of the machine counterclockwise to increase pressure.
5. Place the substrate on lower platen, smoothing out all wrinkles. Push and hold the cap retainer in the down position. For a cap, pull the sweatband out, place the crown on the lower platen.
6. Position transfer or lettering on substrate.
7. Close the machine by pulling handle down into locked position.
8. The timer will start automatically and a buzzer will beep at the end of the time cycle.
9. At the end of the time cycle, open the machine by lifting handle to the full open position.
10. Unlock cap retainer and remove substrate.



NOTE

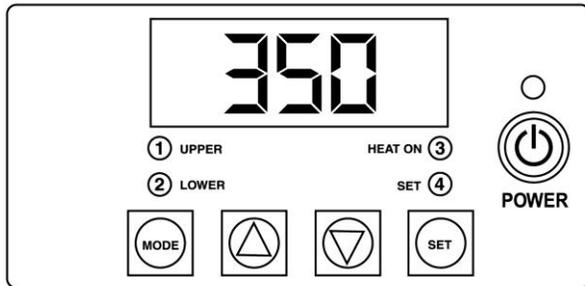
The lower platen may be adjusted to accommodate various caps, sleeves, pant legs. Slide the lower platen z bracket assembly by loosening the lock down knob located in the base of the of the z bracket. Move the complete lower platen assembly forward or backward to the desired location. Once in position, lock down the complete assembly by tightening down the lock down knob.

Environmental Conditions

Only operate Insta heat seal machines under suitable environmental conditions.

1. Placed on a even, non flammable surface.
2. Can support a minimum of 150 lbs. if placed above a platform.
3. Do not restrict access to the main power switch.
4. Maintain a clearance around any forms of liquid.
5. Do not over extend the power cord.
6. The operational voltage should not be 10% max/min of the rated value.
7. Avoid voltage spikes.

Operation Timer/Temperature Control



Solid State Controller

This controller has two (2) control features:

1. Temperature - Temperature may be set from 221-446°F (105-230°C).
2. Time - Time may be set from 1 second to 99.59 minutes.

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.

Temperature

Fahrenheit/Centigrade (Celsius) Conversion

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

1. Press the **MODE** button until the temperature is displayed.
2. Push and hold the **UP and DOWN** buttons for 5 seconds.

Timer

- The controller has a count down timer that automatically activates a buzzer at the completion of the application.
- Timer display is minutes:seconds. Range is **00:00** to **99:59**, Colons (:) flash while timer is running.

Preventive Maintenance Suggestions

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

1. Do not heat seal items such as buttons, pins, snaps, or zippers that 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. When the heat platen is hot and not in use, keep in open position (away from the silicone rubber pad).
4. To prevent soiling of substrate, 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.
5. The Model 418 machines require periodic lubrication with a high-temperature, non-melting grease (MPPL023).
 - A. Lubricate the post, handle and cam assembly depending upon usage. (Once every month if used continuously.)

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
- F. Grease gun
- G. Special high temperature grease MPPL023

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



WARNING

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

Replacement of Silicone Rubber Pads

1. Make sure heat platen is cool.
2. Use tube of MPPC006 adhesive to bond silicone rubber pad to metal platen.

NOTE: *Read instructions on the tube package*

3. Be sure that the surface of the silicone platen is clean. Use a **mild** solvent such as **mineral spirits**.
4. The pad and metal must be thoroughly dry and clean, before starting the bonding operation.
5. Apply adhesive sealant to the metal platen. Spread a thin even coat and apply pad immediately. Apply pressure and position pad making sure that there is no air entrapment.

NOTE: *A serrated blade such as used for laying down rubber floor tiles would be helpful.*

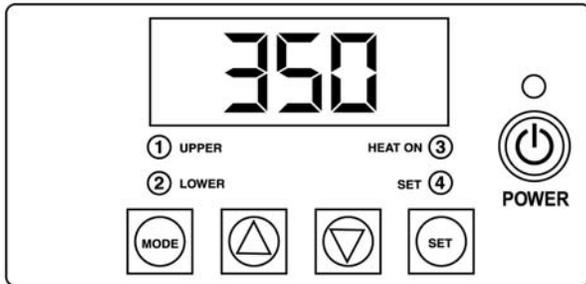
6. Allow to cure overnight under low pressure at normal room temperature.

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Automatic Shut Off

Model 418

(418 - Controller P/N MPC90214; Rev. 4.73)



The Automatic Shut Off is designed to save electrical consumption when the user is not engaged in the usage of the Insta heat seal machines.

By default, the timer for Automatic Shut Off is set to **2 hours** during activation and cannot be changed. Any disturbance such as a key press or heat press cycle will reset the timer.

The timer for Automatic Shut Off will begin after every key press or heat press cycle.

Automatic Shut Off

1. Turn on the machine by pressing **POWER**.



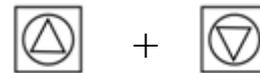
POWER

- a) ONE beep indicates the Automatic Shut Off is **OFF**.
- b) TWO beeps indicates the Automatic Shut Off is **ON**.

2. Press on the **MODE** once in order to display the **TIME SETTING**.



3. With the **TIME SETTING** displayed, press and hold the **UP + DOWN ARROWS** for **3 to 5 seconds**.



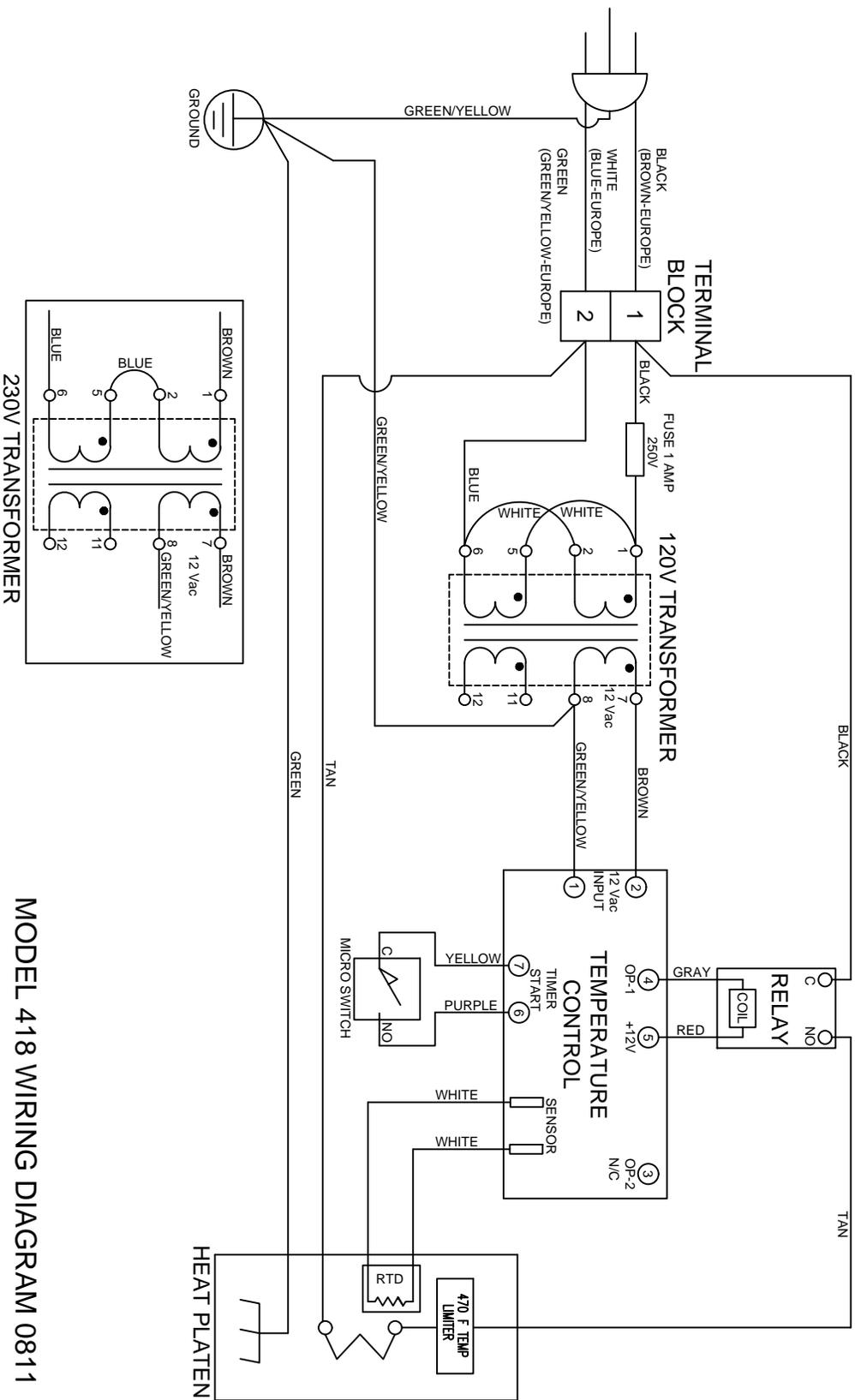
- a) ONE beep indicates the Automatic Shut Off is **OFF**.
 - b) TWO beeps indicates the Automatic Shut Off is **ON**.
4. Repeat step 3 in order to turn ON or OFF the Automatic Shut Off.

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Safety and Danger Zone Diagram

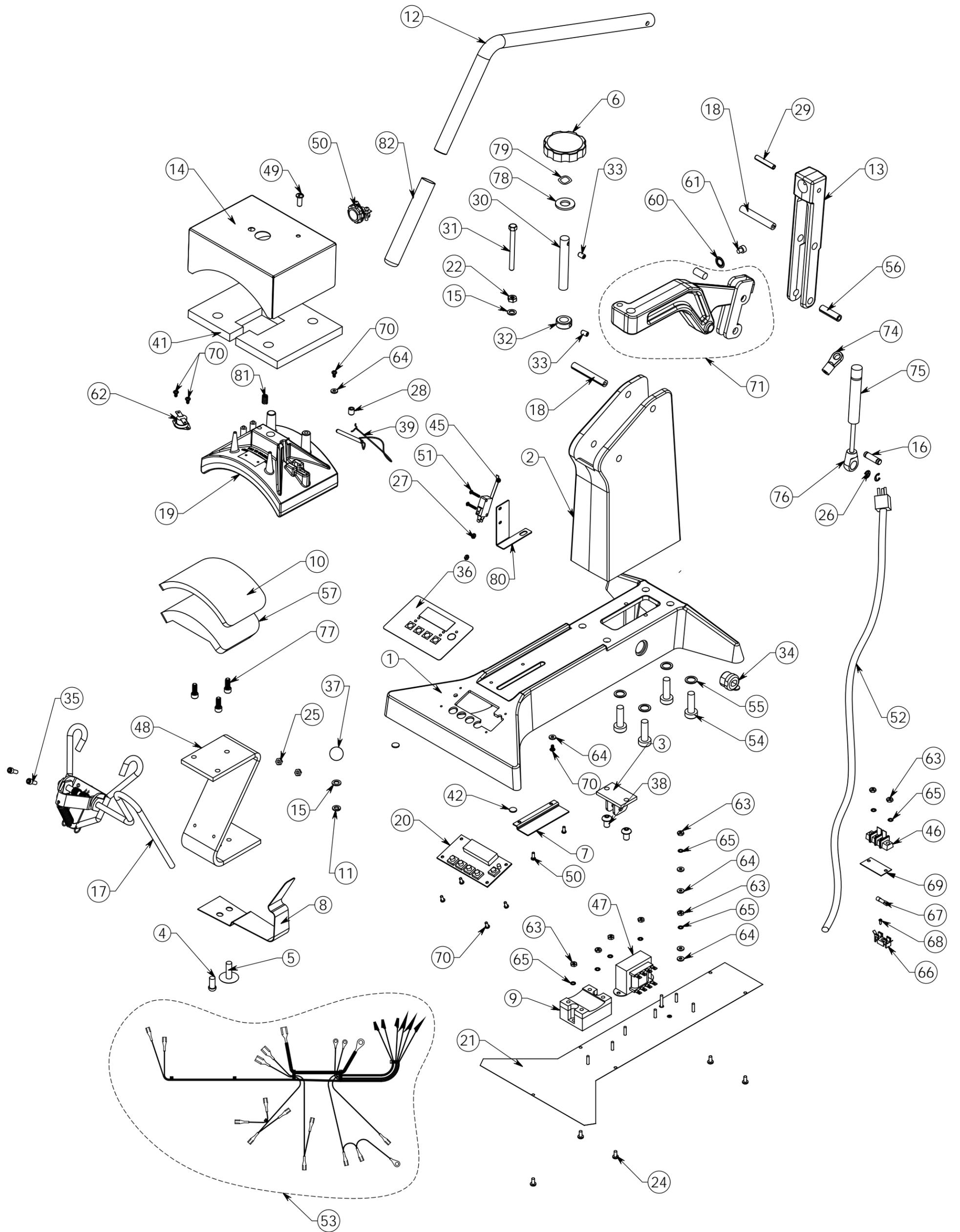


MODEL 418



MODEL 418 WIRING DIAGRAM 0811

MODEL 418



		MODEL	MODEL	MODEL
		418	418	418 EUR
NO	PART NAME	120V AC	230V AC	230V AC
1	418 BASE	MPB90184	MPB90184	MPB90184
2	BASE UPRIGHT	MPB90183	MPB90183	MPB90183
3	CLEVIS ASSY, GAS SPRING	MPC90190	MPC90190	MPC90190
4	SCREW, BUTTON HEAD 1/4-20 x 5/8	MHSB142058	MHSB142058	MHSB142058
5	CARRIAGE BOLT 1/4-20 x 1.0	MHBC14201	MHBC14201	MHBC14201
6	KNOB, PRESSURE ADJUST	MPPK018	MPPK018	MPPK018
7	RETAINER, CARRIAGE BOLT	MPR90200	MPR90200	MPR90200
8	LOCKING PLATE CAP DEVICE	MPSC413	MPSC413	MPSC413
9	RELAY, SOLID STATE	MPR90217	MPR90217	MPR90217
10	SILICONE RUBBER PAD	MPP90194	MPP90194	MPP90194
11	INTER LOCK WASHER ¼	MHWL14	MHWL14	MHWL14
12	HANDLE	MPH90197	MPH90197	MPH90197
13	BREAK OVER ARM MACHINING	MPA90213	MPA90213	MPA90213
14	SHROUD, UPPER PLATEN	MPS90198	MPS90198	MPS90198
15	WASHER ¼	MHWSAE14	MHWSAE14	MHWSAE14
16	PIN, LOWER CLEVIS	MPP90201	MPP90201	MPP90201
17	CAP HOLD DOWN DEVICE ASSEMBLY	MPSR021	MPSR021	MPSR021
18	PIN, ROLL 3/8" x 2-1/2"	MHPR38212	MHPR38212	MHPR38212
19	GRIP, RUBBER	MPSH168	MPSH168	MPSH168
20	DIGITAL CONTROL	MPC90214-473	MPC90214-473	MPC90214-473
21	BOTTOM COVER ASSEMBLY	MPC90202	MPC90202	MPC90202
22	HEX NUT 1/4-20	MHNNH1420	MHNNH1420	MHNNH1420
24	PAN HEAD SLOTTED SCREW 8-32 X 3/8	MHSP83238	MHSP83238	MHSP83238
25	HEX NUT 10-32	MHNNH1032	MHNNH1032	MHNNH1032
26	CLIP E RETAINING 5/16	MPSC242	MPSC242	MPSC242
27	HEX NUT 4-40	MHNNH440	MHNNH440	MHNNH440
28	SET SCREW 5/16-18 X 3/8	MHSST5161838	MHSST5161838	MHSST5161838
29	PIN, ROLL ¼ X 1-1/2	MHPR14112	MHPR14112	MHPR14112
30	ADJUSTMENT SCREW	MPS90203	MPS90203	MPS90203
31	HEX BOLT, 1/4-20 x 2-3/4	MHBH1420234	MHBH1420234	MHBH1420234
32	COLLAR ADJUSTMENT	MPSP247	MPSP247	MPSP247
33	SET SCREW 10-32 X 3/16	MHSST1032316	MHSST1032316	MHSST1032316
34	STRAIN RELIEF	MPSS168	MPSS168	MPSS168
35	SCREW, SOCKET HEAD 10-32 X ½	MHNNH103212	MHNNH103212	MHNNH103212
36	OVERLAY, DIGITAL CONTROL	MPL90349	MPL90349	MPL90349
37	KNOB, BLACK	11088817	11088817	11088817
38	SCREW, BUTTON HEAD 1/4-20 X ½	MHSB142012	MHSB142012	MHSB142012
39	SENSOR, 2000 OHM	MPPS210	MPPS210	MPPS210
40	SCREW, PHILLIPS 6-32X1/4	MHSP63214	MHSP63214	MHSP632143
41	INSULATION	MPSP249	MPSP249	MPSP249
42	FOOT, RUBBER	MPP90004	MPP90004	MPP90004
45	MICRO SWITCH	MPPS043	MPPS043	MPPS043
46	TERMINAL BLOCK ASSEMBLY	MH11096914	MH11096914	MH11096914
47	TRANSFORMER	MPT90001	MPT90001	MPT90001
48	ZEE, LOWER PLATEN SUPPORT	MPSS471	MPSS471	MPSS471
49	SCREW, PHILLIPS 12-24 X 5/8	MHSP122458	MHSP122458	MHSP122458
50	SCREW, PHILLIPS 6-32 X 5/16	MHSP632516	MHSP632516	MHSP632516
51	SCREW, PHILLIPS 4-40 X 7/8	MHSR44078	MHSR44078	MHSR44078
52	POWER CORD	MPPW141	MPPW142	MPPW202
53	WIRE HARNESS	MPW90325	MPW90325	MPW90325
54	SCREW, SOCKET HEAD 3/8-16 X 1.0	MHSSH38161	MHSSH38161	MHSSH38161
55	WASHER, LOCK 3/8	MHWL38	MHWL38	MHWL38
56	PIN, ROLL 3/8 X 1-3/8	MPP90206	MPP90206	MPP90206
57	LOWER PLATEN	MASP469	MASP469	MASP469
60	WASHER, LOCK INTERNAL TOOTH #10	MHWLIT10	MHWLIT10	MHWLIT10
61	BUMPER	MH100455166	MH100455166	MH100455166
62	HI-TEMPERATURE LIMITER	MH009-002	MH009-002	MH009-002
63	HEX NUT 6-32	MHNNH632	MHNNH632	MHNNH632
64	WASHER #6	MHWSAE6	MHWSAE6	MHWSAE6
65	WASHER #6 INTERNAL TOOTH LOCK	MHWLIT6	MHWLIT6	MHWLIT6
66	FUSE HOLDER	MPPF708	MPPF708	MPPF708

67	FUSE (1 AMP, 250V)	MPPF701R	MPPF701R	MPPF701R
68	SCREW, PHILLIPS 2-56 X 1/4	MHSP25614	MHSP25614	MHSP25614
69	MARKER STRIP	MS6992	MS6992	MS6992
70	SCREW, PAN HD 6-32 X 1/4	MHSP63214	MHSP63214	MHSP63214
77	SCREW, SOCKET HEAD 1/4-20 X 5/8	MHSSH142058	MHSSH142058	MHSSH142058
78	WASHER #1/2	MHWSAE12	MHWSAE12	MHWSAE12
79	WASHER WAVE #1/2	MH5806282	MH5806282	MH5806282
80	MTG. BRACKET MIRCO SWITCH	MH100455169	MH100455169	MH100455169
81	HELICOIL INSERT, 1/2"-13 X 1/2" LONG	MH11858CN500	MH11858CN500	MH11858CN500
A1	LINK ARM ASSEMBLY	MPL90211	MPL90211	MPL90211
A2	GAS SPRING ASSEMBLY	MPS90192	MPS90192	MPS90192
A3	LOWER PLATEN ASS'Y W/RUBBER	MPSP468	MPSP468	MPSP468
A4	UPPER PLATEN, WIRING ONLY	MPP4183W	MPP4184W	MPP4184W
A5	UPPER PLATEN COMPLETE ASSEMBLY	MPP4183A	MPP4184A	MPP4184A
A6	LOWER PLATEN COMPLETE ASSEMBLY	MPP90275	MPP90275	MPP90275

INSTA GRAPHIC SYSTEMS Heat Press Limited Warranty

This limited warranty (“warranty”) is given only to the original end-user/retail purchaser (referred to in this warranty as “Original Purchaser”) of the accompanying product and accessories (collectively referred to in this warranty as “The Product”).

What is covered?

- “The Product” includes Machines, Parts and/or Accessories.
- Except as otherwise provided herein, Insta Graphic Systems (“Insta”) warrants that The Product will be free from defects in materials and workmanship when used under normal conditions.

What is the length of the Warranty Periods?

- Machines: Life time on the heating element, one year parts and 90 days labor from the original purchase date (end-user).
- Additional Parts and Accessory Items: 90 days from the original purchase date.

This warranty does not cover:

- Physical damage to the Product;
- Damage caused by improper installation, improper or abnormal use, misuse, neglect or accident (including but not limited to transporting The Product without the proper preparation and/or packaging);

This limited warranty is VOID, if

- the Product has been altered or modified in any way (including but not limited to attempted warranty repair without authorization from Insta and/or alteration/removal of the serial number).
- the warranty period is expired,
- the serial number label is missing or unrecognizable,
- the defect was subject to abuse, improper use not conforming to product manual instructions
- the defect was subject to Force Majeure, such as acts of God, flood, lightning, earthquake, war, vandalism, theft, brownouts or sags (damage due to low voltage disturbances)

What to do if you think your Product is eligible for warranty service: Immediately report your issue to service@instagraph.com or call Insta’s Service Center at 800-421-6971. Supply the model, serial number and purchase date of the equipment.

What Insta will ask you to do?

After contacting Insta you may be asked to deliver (by hand if you prefer) or send The Product properly packaged, freight prepaid, to Insta or Insta’s service center together with your bill of

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sale. A Return Authorization is required for all returned goods. Failure to obtain the RA will result in the refusal of the shipment.

You are responsible for the cost of shipping, packing of The Product and insurance (if you desire). You are also responsible for loss or damage to The Product in shipping.

If The Product does not operate as warranted above during the applicable warranty period, Insta shall, at its option and expense (except for shipping cost), repair the defective product or part, deliver to the customer an equivalent product or part to replace the defective item. All products that are replaced will become the property of Insta.

If The Product is not covered by this warranty, you will be charged for any service and/or replacement parts/products at Insta's then current published rates, as well as, for the freight.

What happens when Insta elects to replace your Machine?

When a replacement Machine is authorized by Insta, Insta will send a replacement Machine and issue a Return Authorization for the return of the Product. The Purchaser will be charged for the new machine at the time of the shipment. Once the machine is returned and the warranty confirmed, The Purchaser will receive a credit/refund. The replacement machine you receive (will be covered by the balance of the limited warranty period remaining on the original product, plus an additional thirty (30) days. You will keep the replacement machine that is sent to you and your original machine shall become the property of Insta.

THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, WHETHER EXPRESSED BY AFFIRMATION, PROMISE, DESCRIPTION, DRAWING, MODEL OR SAMPLE. ANY AND ALL WARRANTIES OTHER THAN THIS ONE, WHETHER EXPRESSED OR IMPLIED INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED. INSTA SHALL HAVE NO LIABILITY FOR DEFECTS OF ANY NATURE WHATSOEVER EXCEPT AS PROVIDED FOR HEREIN.

This Limited Warranty (and Insta's obligation to you) may not be changed in any way unless you and Insta sign the same piece of paper in which we (1) refer to The Product and your bill of sale date, (2) describe the change to this warranty and (3) agree to make that change.

Important:

We recommend that you keep all original packing materials, in the event that you need to ship the Product.

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