



MODEL 907
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

For protection against fire and electric shock, replace with same type and rating fuse. Fuse rated max. 1 amp 120V.



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 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

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

International Symbols



Power Off



Power On



Hot Surface



Risk of Electrical Shock



Protective Earth Terminal



Ground



Wet Conditions



Start Action



Caution - Warning



Disengage

Congratulations!

Your selection of the Insta 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, ensures the continuing capability of delivering the best decorated substrates possible.

This manual describes installation, operation, and maintenance procedures for your 907 series machine, as well as easy to use instructions for on-the-spot maintenance.

Your machine will have a long trouble-free life. Read this manual and keep it with your machine. It's your key to proper operation and lasting service.

General Description

The 907 is a dual station shuttle press for high speed label application. This pneumatic heat press machine is air-operated to prevent operator fatigue and is equipped with 2 independent lower platens, with an upper heated platen that swings between the two, for optimal efficiency

The 907 has been strategically designed to generate & evenly distribute tremendous pressure throughout the entire platen. And, its cast-in tubular heating element heats the metal from within, to produce consistent and long lasting heat. A successful heat transfer application requires 3 key elements to work in tandem—time, temperature & pressure. The 907 has mastered those elements and gets the job done every time.

Our heat press machines serve as a method of product identification and provide customers with a means of branding their textile-based products through the application of tagless labels, logos, decorative front and back graphics and over-sized prints.

Limited Machine Warranty

Insta 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 upper heating element) and 90 days on labor from the invoice date.

This warranty will be effective only when Insta 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.

Insta 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.

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Installation



DOMESTIC - 907

Use a **separate** 15 amp AC circuit. Only industrial extension cords with proper wire size should be used: size 18/3 wire for distances up to 25 feet, and size 16/3 for distances up to 50 feet.



INTERNATIONAL - 907

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

Voltage	120 Volts AC	50/60 Hertz
Model 907	1000 Watts	8.3 Amps
Voltage	230 Volts AC	50/60 Hertz
Model 907	920 Watts	4.0 Amps
Model 907 Machine Weight	61 Pounds (27	7.7 KG)

Degree of Protection

IP (Ingress Protection) rating according to IEC 60529.

NOTE

Protection from

solid objects

Non protected

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; funus; vermin

IP54 = IP
 1st Digit 5
 2nd Digit 4

2nd

Digit

Protection from

moisture

Non protected

U	Non protected	U	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. Push **ON/OFF** switch to **ON** position.
- 2. Set desired temperature (See Controller Operation).
- 3. Allow the machine to warm up until the selected temperature is reached.
- 4. Set the desired pressure by adjusting the air pressure regulator.
- 5. Select the desired timing cycle (See Controller Operation).
- Place the substrate on lower platen, smoothing out all wrinkles.
- 7. Position transfer or lettering on substrate.
- 8. Swing the upper arm into position directly over the lower platen.



SAFETY DELAY FEATURE

For operator safety the machine shall not operate unless the upper platen has fully reached the left hand position. An additional delay has been incorporated in machines running software 2.29 (see point 9).

- 9. Depress and hold both start buttons, one on each side of the machine, simultaneously until the lower platen contacts the upper platen. The start buttons must be held until the upper and lower platens make contact. At this point the machine operation is fully automatic. The platens seal the transfer to the substrate and then release automatically at the end of the selected timing cycle.
- 10. Swing away the upper platen to the opposite side and remove substrate.

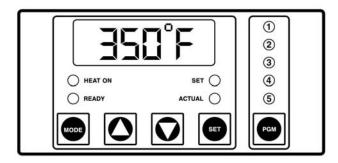


NOTE

Another substrate may be prepared on the unused platen during the sealing operation of the used platen.

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

Solid State Controller



This controller has three (4) 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.
- Counter Cycle counter counts the number of applications from 1 to 9999 (see additional Notes – Counter).
- 4. Presets Five (5) presets that can be programmed by the user. Each preset will retain a temperature and time setting, i.e. Program #1 could be set for 325°F and 10 seconds while Program #2 could be set for 375°F and 15 seconds. Once the five presets have been programmed, the user need only press the PGM button several times until the desired program is selected. The lit LED above the PGM button indicates the selected program. Note: there is also a sixth setting that is indicated by no lit LED's.

Controller Operation

- Select the desired preset program by pressing the **PGM** button until the LED above the **PGM** button indicates the desired setting.
- If a setting other than the programmed presets are desired, press the PGM button until none of the LED's above the PGM button are lit.
- 3. Changing the Temperature
 - Press the MODE button until temperature is displayed.
 - Press and hold SET button in while pressing the UP (↑) or DOWN (↓) arrow buttons to the desired temperature setting.
- 4. Changing the Time
 - Press the MODE button until timer is displayed.
 - Press and hold SET button in while pressing the UP (↑) or DOWN (↓) arrow buttons to the desired timer setting.



NOTE

When the machine is operating with none of the LED's lit, i.e. no presets, the time and temperature will be saved even if the power is turned off. The presets will also be saved when the power is turned off.



NOTE

For operator safety the machine is designed not to operate unless the upper arm is directly over one of the lower platens.



NOTE

The DISENGAGE switch (located in the center of the instrument panel) may be pushed at any time to deactivate the machine.

Setting the Presets

- Push and hold both the MODE and PGM buttons for 3-5 seconds until one of the programs LED's starts to blink. This is the programming mode.
- 2. A blinking LED above the **PGM** button indicates which preset is active.
- 3. Select a program (1,2,3,4,or 5) by pressing the **PGM** button.
- 4. Setting Temperature
 - Press the MODE button until temperature is displayed.
 - Press and hold SET button in while pressing the UP (↑) or DOWN (↓) arrow buttons to the desired temperature setting.



NOTE

If a Fahrenheit/Celsius change is desired, see **Additional Notes** – **Temperature**.

- 5. Setting Time
 - Press the MODE button until time is displayed.
 - Press and hold **SET** button in while pressing the UP (↑) or DOWN (↓) arrow buttons to the desired timer setting.
- Repeat steps 3-5 until all five (5) presets have the desired preset (temperature/time cycle).

7. Push and hold both the **MODE** and **PGM** buttons for 3-5 seconds until a single beep is heard to exit the **programming mode**.



NOTE

When in the **normal mode**, none of the five program LED's will be **blinking** and the user cannot change the time and temperature for any of the five presets.



NOTE

When the machine is operating with **none** of the five program LED's lit, i.e. no presets, the time and temperature **WILL BE SAVED** even if the power is turned off. The presets will also be saved when the power is turned off.

Additional Notes

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 UP (↑) and DOWN (↓) arrow buttons for 3 seconds until the counter resets to zero (0000) on the display.

Preventive Maintenance Suggestions

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

- 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.
- 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.
- 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.
- The machine requires periodic lubrication with a high-temperature, non-melting grease (MPPL023). Lubricate the post and heat platen's pivot pin depending upon usage. (Once every month if used continuously.)



NOTE

Wipe off any excess oil or grease.

Turn off air pressure when machine is not being used.

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 Parts

Refer to the 3D explosive view and the bill of materials at the end of this manual.

Micro Switch Adjustment

- 1. Disconnect power supply; remove the top panel of the instrument housing.
- 2. Swing upper platen into working position until stop is reached.
- The micro switch must be adjusted to JUST CLOSE, as upper platen swings to this position.
- To change micro switch setting, loosen the screw on slotted end of micro switch. Move in desired direction to bring switch to JUST CLOSED condition (listen for an audible click from micro switch) and re tighten screw.



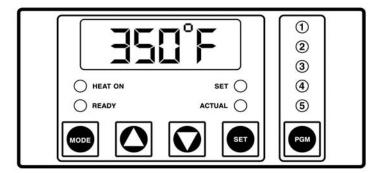
NOTE

Machines are shipped with a standard air fitting. EUROPEAN models include a MPPF086 quick disconnect air fitting.

Airborne Noise Emission

Sound pressure level at operator station does not exceed 70 dB(A).

Sleep Time, Set Back Temperature, Automatic Shut Off, Temperature Conversion, and User Offset



Model 907

The Sleep Mode / Automatic Shut Off is designed to save electrical consumption when the user is not engaged in the usage of machines for a pre-determined period of time defined by the user.

During activation, any disturbances such as the key press or heat press cycle will reset the machine and reset the timers for both Sleep Mode and Automatic Shut Off.

When the Automatic Shut Off is set to OFF and the Sleep Mode is activated, any disturbances to the machine will disengage the Sleep Mode.

When the Sleep Mode is set to OFF, the timer for Automatic Shut Off will activate and resets after every key press or heat press cycle.

- Sleep Time (Level 1 – Menu 1)
- Set Back Temperature (Level 1 – Menu 2)
- Automatic Shut Off Time (Level 1 – Menu 3)
- Temperature Conversion (Level 1 – Menu 4)
- User Offset (Level 1 – Menu 5)

Sleep Time

 Display the COUNTER. Enter the Factory Mode by pressing and holding together SET then MODE for 3 to 5 seconds.



+



Press and hold together SET then UP or DOWN Arrow to set Sleep Mode Time.



+



or



1._XX; XX = Minutes from OFF to 99

Set Back Temperature

- 3. Press MODE.
- Press and hold together SET + UP or DOWN Arrow to set Set Back Temperature.



+



or



2._XXX ; XXX = Temp. from 225F to 300F

Automatic Shut Off

- 5. Press **MODE**.
- 6. Press and hold together SET + UP or DOWN Arrow to set Auto Shut Off Time.







3._XX; XX = Minutes from OFF to 99

Temperature Conversion

- 7. Press MODE.
- Press and hold together SET + UP or DOWN Arrow to set Fahrenheit or Celsius.







 $4._X$; X = F or C

User Offset

- Press MODE.
- 10. Press and hold together SET + UP or DOWN Arrow to set the Offset.







5._XX; XX = Offset Number

Exit

Press and hold together SET then MODE for 3 to 5 seconds at any time to Exit.





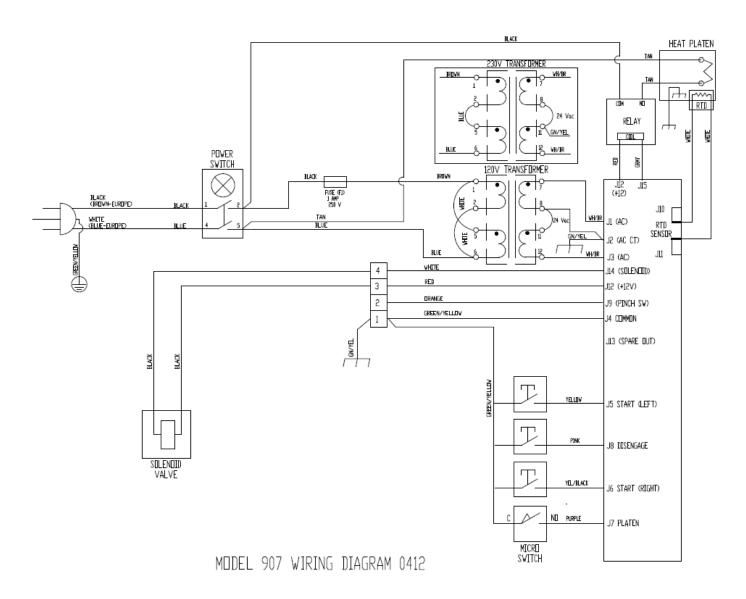
Safety and Danger Zone Diagram

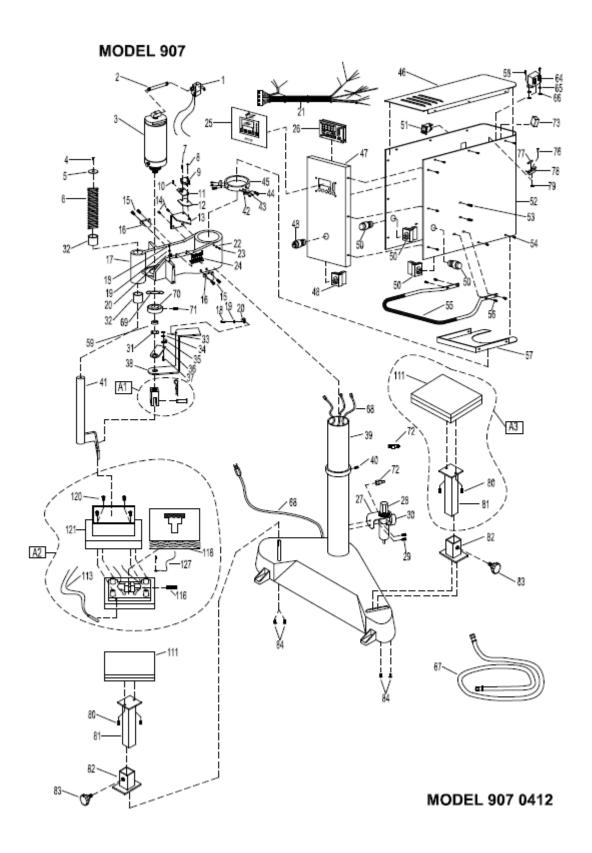


Machinery should be operated under a secure flat surface

907 Wiring Diagram 0412

MDDEL 907





		MODEL	MODEL
		907	907
NO	PART NAME	120V AC	230V AC
1	AIR SOLENOID VALVE ASS'Y	MPPA903	MPPA903
2	NIPPLE, CYLINDER	MHN14412	MHN14412
3	AIR CYLINDER ASS'Y	MPPA413	MPPA413
4	SCREW, COMPRESSION SPRING 1/4-20 X 3/4	MHSB142034	MHSB142034
5	WASHER, SPRING	MHWC716	MHWC716
6	SPRING, COMPRESSION	MPSS884	MPSS884
7	SCREW, MICRO SWITCH 4-40 X 1/2	MHSR44012	MHSR44012
8	SCREW, MICRO SWITCH 4-40 X 3/4	MHSR44034	MHSR44034
9	MICRO SWITCH (ARM)	MPPS044	MPPS044
10	SCREW, MICRO SWITCH 8-32 X 3/8	MHSP83238	MHSP83238
11	PLATE, MICRO SWITCH MOUNTING	MH700213	MH700213
12	INSULATOR, MICRO SWITCH	MH700214	MH700214
13	BRACKET, MICRO SWITCH	MPSM90018	MPSM90018
14	SCREW, MICRO SWITCH BRACKET 10-24 X 3/8	MHSP102438	MHSP102438
15	SCREW, STOP BRACKET 1/4-20 X 1/2	MHSH142012	MHSH142012
16	BRACKET, STOP	MPSM90010	MPSM90010
17	ARM ASS'Y	MPSA90021	MPSA90021
18	SCREW, 8-32 X 3/8	MHSP83238	MHSP83238
19	WASHER	MHWSAE8	MHWSAE8
20	CLAMP, CABLE	MHCC516	MHCC516
21	WIRE HARNESS	MPPW931	MPPW932
22	WASHER	MHWSAE8	MHWSAE8
23	SCREW, 8-32 X 3/8	MHSP83238	MHSP83238
24	TERMINAL BLOCK	MPST6994	MPST6994
25	LABEL, CONTROL OVERLAY, 907	MPPL015	MPPL015
26	DIGITAL CONTROLLER	MPPT752	MPPT752
27	MOUNT, AIR REGULATOR FILTER	MPSM90009	MPSM90009
28	AIR PRESSURE/FILTER REGULATOR ASS'Y	MPPA900	MPPA900
29	SCREW, AIR FILTER 1/4-20 X 1/2	MHSH142012	MHSH142012
30	AIR GAUGE ASS'Y	MPPA025	MPPA025
31	NUT, JAM CLEVIS	MHJN21	MHJN21
32	BUSHING, GUIDE POST	MPSB070	MPSB070
33	NUT, HEX	MHNH832	MHNH832
34	WASHER	MHWSAE8	MHWSAE8
35	CLAMP, CABLE	MHCC516	MHCC516
36	BRACKET, WIRE STABILIZER	MPSM90019	MPSM90019
37	SCREW, 8-32 X 1/2	MHSP83212	MHSP83212
38	BRACKET, ELECTRICAL SUPPORT	MPSM90024	MPSM90024
39	BASE ASS'Y	MPSB90711	MPSB90711
40	SCREW, SOCKET 5/16-18 X 3/4	MHH5161834	MHH5161834
41	GUIDE POST ASS'Y	MPSG90008	MPSG90008
42	CAM, MICRO SWITCH	MPSC90020	MPSC90020
43	SCREW, PAN HD 6-32 X 1/4	MHSP63214	MHSP63214
44	SCREW, SOCKET HD 5/16-18 X 3/4	MHH5161834	MHH5161834
45	COLLAR, POST	MPSC90023	MPSC90023
46	PANEL, TOP COVER (SHEET METAL)	MPSM90004	MPSM90004
47	PANEL, FRONT (SHEET METAL)	MPSM90703	MPSM90703
48	DISENGAGE SWITCH ASS'Y	MPPS713	MPPS713
50	START SWITCH ASS'Y	MPPS703	MPPS703
51	POWER SWITCH (ON/OFF) ASS'Y	MPPS060	MPPS060
52	PANEL, WRAP AROUND (SHEET METAL)	MPSM90701	MPSM90701
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53	SCREW, 10-24 X 3/8	MHSP102438	MHSP102438

55	HANDLE	MPSH900	MPSH900
56	SCREW, 8-32 X 1/2	MHSP83212	MHSP83212
57	PLATE, BOTTOM (SHEET METAL)	MPSM90002	MPSM90002
58	SCREW, TRANSFORMER	MHSP83238	MHSP83238
59	SPACER CYLINDER	MPS90049	MPS90049
64	TRANSFORMER	MPT90319	MPT90319
65	WASHER	MHWSAE8	MHWSAE8
66	NUT, TRANSFORMER	MHNH832	MHNH832
67	AIR HOSE	MPPA005	MPPA005
68	POWER CORD (USA MODEL)	MPPW161	MPPW162
68A	POWER CORD (EUROPEAN MODEL)	N/A	MPPW202
68B	POWER CORD (GREAT BRITAIN)	N/A	MPPW203
69	NUT, HEX JAM	MHNHJ114	MHNHJ114
70	COLLAR, PISTON SHAFT	MPSB900	MPSB900
71	SCREW, SET 1/4-20 X 3/8	MHST142038	MHST142038
72	AIR FITTING INLET	MPPF085	MPPF085
73	RELAY, SOLID STATE	MPSR2450	MPSR2450
76	SCREW, FUSE	MHSF44038	MHSF44038
77	FUSE F1 (1 AMP 250V)	MPPF701R	MPPF701R
78	FUSE HOLDER ASSEMBLY	MPPF708	MPPF708
79	NUT, FUSE	MHNH440	MHNH440
80	SCREW, LOWER PLATEN TUBE	MHSH142012	MHSH142012
81	LOWER PLATEN SUPPORT TUBE	MPSP477	MPSP477
82	SOCKET, LOWER PLATEN	MPSP499	MPSP499
83	KNOB, LOWER PLATEN	MH4210H	MH4210H
84	SCREW, SOCKET ATTACHMENT	MHSB142012	MHSB142012
111	SILICONE RUBBER PAD	MPPP026	MPPP026
113	SENSOR, RTD (2000 OHM)	MPPS210	MPPS210
116	PIN, UPPER PLATEN	MPPR38112	MPPR38112
118	INSULATION FIBERGLASS	MPSP249	MPSP249
120	SCREW, SHROUD (4 SET)	MHSB381612	MHSB381612
121	HEAT SHROUD	MPS90143	MPS90143
127	GROUND WIRING WITH SCREW	MPW90140	MPW90140
A1	CLEVIS ASS'Y	MPSC919	MPSC919
A2	UPPER PLATEN ASS'Y	MPP9071A	MPP9072A
A3	LOWER PLATEN ASS'Y	MPSP475	MPSP475

Notes:

INSTA GRAPHIC SYSTEMS Heat Press Limited Warranty

This limited warranty ("warranty") is given only to the original end-use/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 day labor from the original purchase date.
- Machine 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, neglet 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).

What to do if you think your Product is eligible for warranty service: Immediately report your issue to servicedept@instagraph.com or call Insta's Service Center at 800-426-3609. 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 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 problem reported concerning The Product is covered by this warranty and if you first reported the problem to Insta within the applicable warranty period, Insta will repair or replace The Product at Insta's discretion.

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

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 origial packing materials, in the event that you need to ship the Product.



13925 E. 166th St. • Cerritos, CA USA 90702 • (800) 421-6971 • Fax (562) 404-3010

Parts Orders • (800) 426-3609 • (562) 404-3000 Ext. 215
Technical Support • (800) 426-3609 • (562) 404-3000 Ext. 208
In-House Repair • (800) 426-3609