

N-840 / N-640

16"x20" / 15"x15" Air Automatic Heat Transfer Machines

C-800 / C-600

16"x20" / 15"x15" Commercial
Air Automatic Heat Transfer Machines

OWNER'S MANUAL

Analog and Digital Versions



(N-840b Shown)

HIXPremier



CORPORATION

For Customer Service, Call **1-800-835-0606**
ext. 209, ext. 211, ext. 220, ext.221 or
Visit www.hixcorp.com

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BEFORE warranty repair you MUST get Prior Authorization:

RECEIVING & INSTALLATION

UNPACKING

Remember to save all packing materials - including box, liner and board. You may need these for shipping your machine or if a repair is necessary in the future.

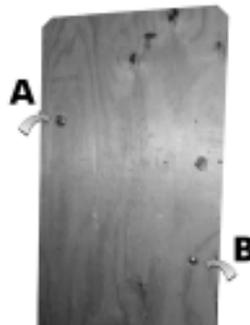
INSPECTION

Inspect your machine for hidden shipping damage. Contact the delivery company immediately, should you find damage.

INSTALLATION

1. Remove plywood shipping base bolts (see **A** and **B**) and screw on feet provided.

CAUTION: Handle **must be tied** to base before moving or shipping.



2. Plug the machine into the correct grounded electrical outlet.

WARNING: When using an extension cord, use 12 or 14 ga.-3 conductor. Maximum length, 25' (7.62 m).

3. Supply a clean (void of oils) and dry (void of water) air source of 100-125 P.S.I. (6.8-8.5 bar) to the 1/4" NPT air inlet located on the left side panel (as viewed from the front) of the machine. Requires 1-1/2 to 2 CFM. It is strongly recommended that an external air filter and water trap be installed at the machine's air inlet connection. Damage to the machine's internal air operated components can occur that **will not be covered under warranty** if it is determined that water, oil or other contaminants have damaged the component. Combination air filter/water traps are available at any major hardware store or may be purchased directly from HIX (part #71145). ***C-800/600 includes a filter.**

OPERATION



DIGITAL TEMPERATURE & TIME INSTRUCTIONS

1. Turn on the machine by pushing the on/off switch.
2. To change or set the temperature, press the menu button on the digital control. The light next to "TEMP" will light. Press the up s, or down t, button to your desired setting.
3. To change or set the time, press the menu button on the digital control. The light next to "TIME" will light. Press the up s, or down t, button to your desired setting.
4. When you have your desired settings **press the menu button a third time to lock in your settings** otherwise the previous settings will still be used.
5. Wait for the machine to reach your preset temperature by monitoring the display temperature until it matches the set temperature.

ANALOG TEMPERATURE & TIME INSTRUCTIONS

1. Turn heat control knob to "8." This should raise the temperature to approximately 350°F (177°C). While machine is heating (approx. 15 minutes), the heat light will remain on, until it has reached set temperature. Adjust heat control knob to the temperature you desire. The heat light will cycle on and off in order to maintain the desired temperature.

2. Set timer by turning the dial to the desired time setting.

IMPORTANT: The mode should always be set to "E" on the timer for proper operation.

PRESSURE CONTROL



1. **The air pressure control knob must be pulled out to allow for pressure adjustments then pushed in once final adjustments have been made.** Set the air pressure by turning the regulator control knob and monitoring the air pressure gauge.
2. Set the air pressure to 40 P.S.I. (pounds per square inch). Turn the control knob clockwise to increase the pressure and counterclockwise to reduce it. Refer to your transfers manufactures guide for pressure recommendations. Your machine is protected by a pressure release valve which is preset at the factory.

OPERATION

TRANSFER APPLICATION

The N-840/640 is ideal for T-shirt shops and retail applications. HIX recommends the C-800/600 for heavy service use such as commercial, continuous applications, or for high volume applications. The C-800/600 120 volt models have a slower heat recovery (i.e. 18-20 seconds @ 375°F). The C-800/600 in 220 volt is recommended for quicker cycle times (i.e. 10 seconds @ 375°F).

1. Set the temperature, time, & pressure to the desired settings as instructed on page 3. **Again, always** consult your specific transfer recommendations. Typical settings are; **Cold Peel:** 350°F (177°C), 15 seconds and **Hot Split:** 375°F (190°C), 10-12 seconds.
2. Align garment on the lower platen and smooth out the wrinkles.

NOTE: Wrinkles may be removed by bringing heated platen in contact with the garment before the transfer is positioned. A **platen release** switch (N-840/640 only) is provided on the front of the lower right frame tube of the machine to interrupt the normal cycle and release the upper heat platen.

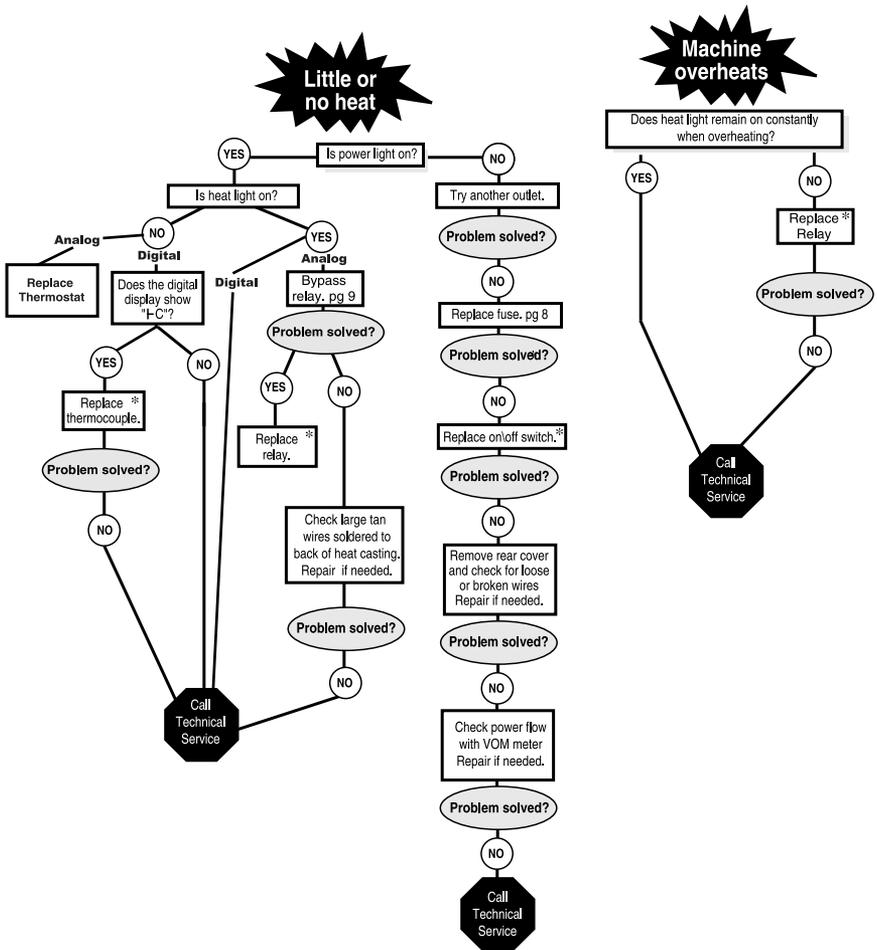
3. Position the transfer, then pull the operating handle down until the lower platen engages (approx. 1 second) then release. At the end of the time selected, the machine will open automatically.
4. Continuously peel the paper off the transfer away from your garment. **NOTE:** Do not fold the transfer back on itself. Successful transfer work depends on the correct balance of time, temperature and pressure. The type and thickness of the material and the kind of transfer being used will determine what settings are necessary.

If a hot peel/split transfer is being applied, immediately peel the paper after the machine has opened. **DO NOT** allow the transfer to cool. If a cold peel transfer is being applied, rub the transfer with an eraser or cloth and allow to cool for 5-10 seconds before removing the release paper.

NOTE: Specific application instructions are enclosed with transfers.

TROUBLESHOOTING

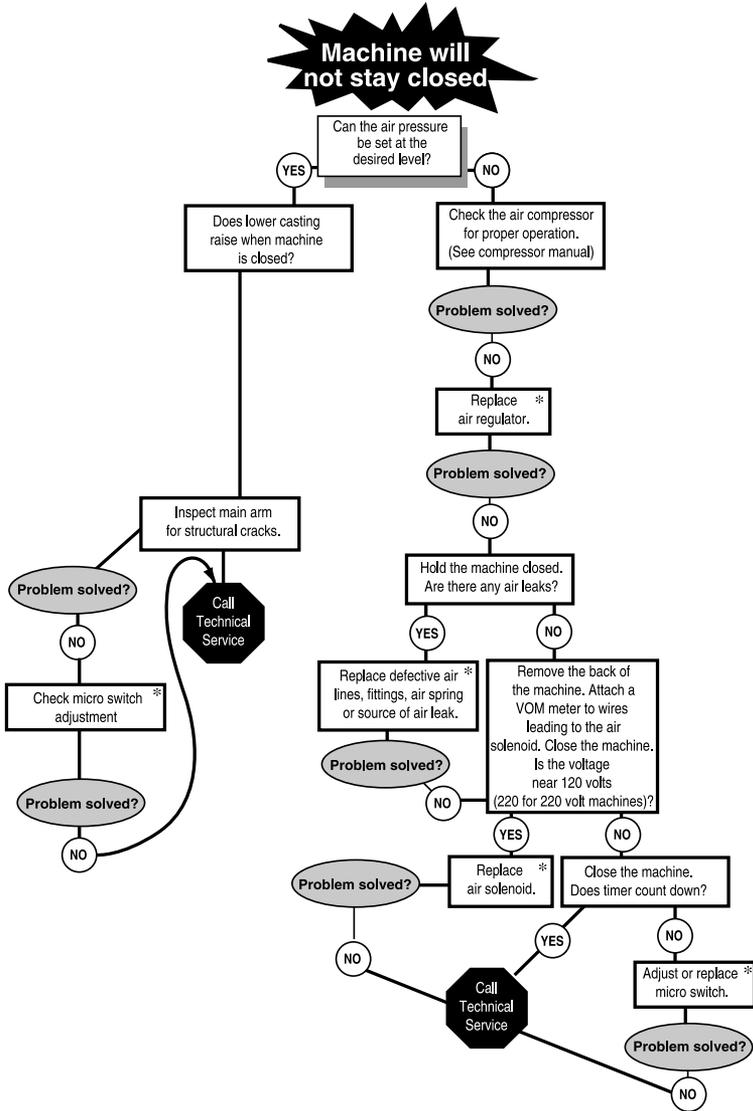
WARNING: Before making repairs, be sure on/off switch is off and machine is unplugged!



*Customer Service Tech Sheets are available for this step. Visit www.hixcorp.com to print or call 620-231-8568 and we will send you one. Parts ordering is available on-line.

TROUBLESHOOTING

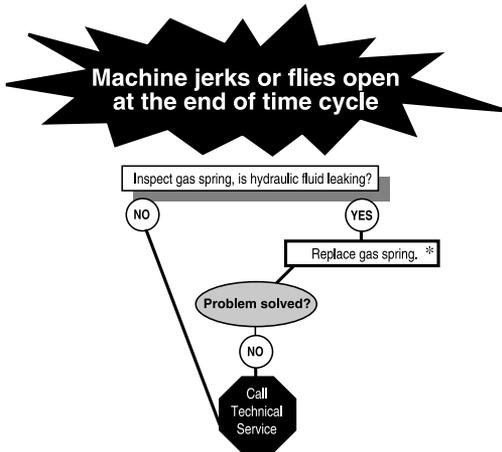
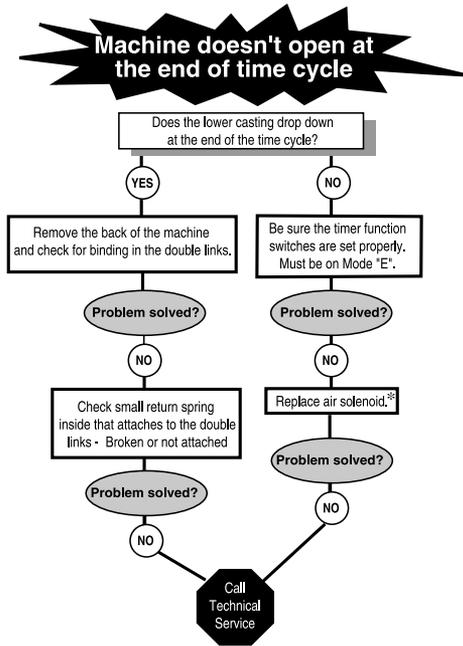
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REPAIRS

THERMOSTAT BYPASS (ANALOG ONLY)

If your machine is not heating (temperature light does not come on).

WARNING: Before making repairs, turn temperature control knob to “OFF” and unplug machine!

1. Loosen recessed set screw in the thermostat knob and remove knob by pulling knob upward. **Fig. 1, Pg. 8**
2. Remove cover screw and thermostat cover to gain access to the thermostat
3. Attach both “thermostat wires” on the “rear terminal”. **Fig. 2, Pg. 9**
4. Plug machine in and turn the power switch “on”

If heat light comes on, and the machine starts heating, replace thermostat.

NOTE: If you feel your temp calibration is off, contact customer service.

HEAT SHIELD ASSEMBLY

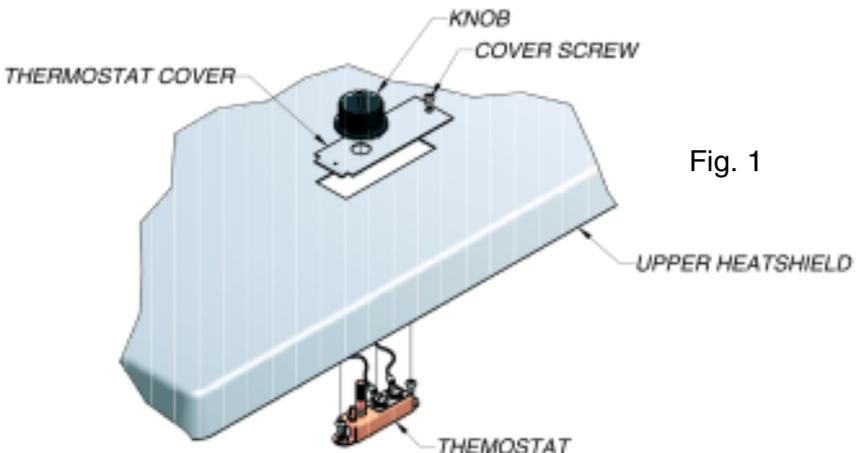


Fig. 1

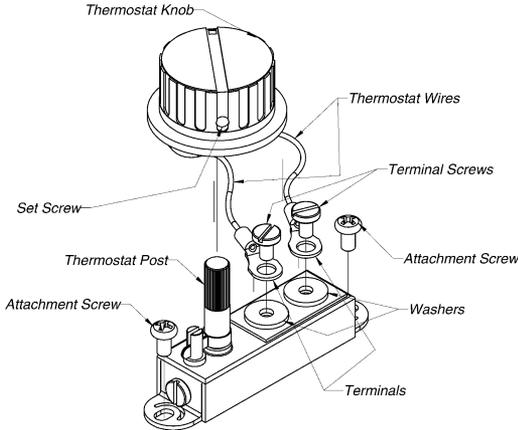


Fig. 2

FUSE REPLACEMENT

WARNING: Before making repairs, be sure on/off switch is off and machine is unplugged!

1. Remove back cover of the machine and locate internal fuse holder on inside of the machine.
2. Remove blown fuse. Replace with the proper fuse.
120V (N-840, N-640, C-800, C-600)MDA-15
220V (N-840, C-800) MDA-10
220V (N-640, C-600)..... MDA-8
3. Replace back cover of machine.

RELAY BYPASS - ANALOG ONLY

WARNING: Before making repairs, be sure on/off switch is off and machine is unplugged!

1. Remove the back cover of the machine.
2. Remove wire #26 from terminal #2 on relay.
3. Loosen terminal #1 on relay and replace wire #26 along with wire #12 under terminal #1.
4. Tighten the connection.
5. Plug machine in and turn the power switch on.

Replace the relay if the machine starts heating.

Note: This is a test only. Do not operate machine with relay bypassed.

MAINTENANCE

WARNING: Unplug the machine from electrical and air supplies before performing these maintenance procedures!

LUBRICATION

Your press requires lubrication every 6 months. Using 3-in-1 oil (available from your hardware store), add one to two drops of oil at the joints of all moving parts.

MECHANICAL

Every 12 months (or 100,000 cycles - whichever comes first), verify the tightness of the two gas spring retaining bolts (N-840/640D models only - Exploded view part #80 on page 12). Use a 3/16" attachment on a torque wrench and tighten bolts to 10 ft. lbs. (120 in lbs.). Loose bolts could allow the gas spring to come loose and the upper heat head to fall, causing possible injury to the operator.

CLEANING HEAT PLATEN

You may clean the heat platen with steel wool, scrubbing aluminum sponge, or fine wire brush.

SHIPPING OR RETURNS

SHIPPING OR RETURNS

NOTE: Save all of your shipping/packing materials.
DO NOT RISK COSTLY SHIPPING DAMAGE!
SHIP ONLY IN ORIGINAL BOX.

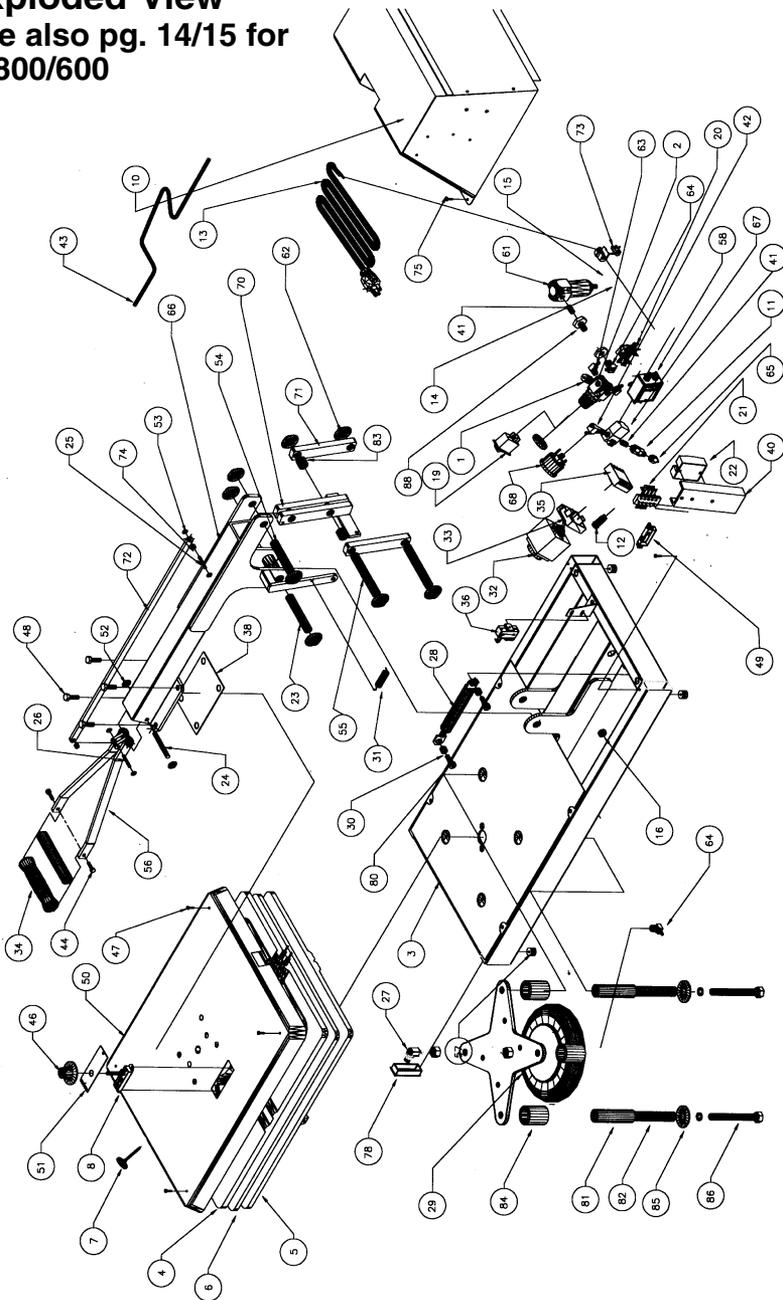
1. Fasten machine to plywood shipping base with bolts provided.
2. Tie or tape handle securely to base.
3. Place in original box, and put side liner and top liner in place. Fold in flaps and seal the box.

(Additional bottom boards, box and liners may be obtained from your supplier for a nominal cost.)

N-840/640 PARTS IDENTIFICATION

Exploded View

See also pg. 14/15 for
C-800/600



PARTS IDENTIFICATION

Reference Serial# Prefix in order help to determine machine: 640 - N640 Analog | 642 - C640 Digital
 641 - N600 Analog | 643 - C600 Digital
 840 - N840 Analog | 842 - N840 Digital
 841 - C800 Analog | 843 - C800 Digital

Parts List: "A"= Analog only "D" = Digital only

All other parts are common for all machines unless otherwise marked

#	Description	Part #	#	Description	Part #
1	Pop-off Valve 128a 70# 1/8	34274	38	Haysite #8404013	41384*
2	Air Regulator 1/8" npt R261ps10	71153	40	Heatsink Lg 5-3/4"	31712
3	Frame	34178	41	Nipple 1/8 X Close Sb	10375
4	Casting 16x20 120v Finished	82743	42	Fitting Tee Gage 228-42	23177
	Casting 16x20 220v Finished	82750	43	Tubing 1/4 Nylon	88799
	Casting 15x15 120v Finished	82040	44	Screw Tap Phph 14x1-1/4 Zp	59816
	Casting 15x15 220v Finished	82057	46	Knob 260-1121 Thermostat Blk	14217
5	Casting 16x20 Lwr Finished	28991	47	Screw Tap-b Ph Phil 6x3/8	15446
	Casting 15x15 Lwr Finished	29899	48	Screw Cpskt 5/16-18x1 Blk	15388
6	Pad 16x20x1/2 Silicone	50542	49	Circuit Bkr 46-500-p10	80911
7	Thermometer Tel-tru	40345	50	Heat Shield #80040010	41384*
8	Thermostat B-1008 B-200	71159	51	Thermostat Cvr #6204002	22640
10	Screw Tap Ph Phil 6x1/4	15438	52	Nut Push 5/16 Pw312010	14738
11	Valve Quick Exhaust Pqe-44	10397	53	Nut Push 3/16 Pw1880008	14712
12	Light Red Id 120v	14233	54	Pin Upper Link #8405017	41384*
	Light Red Id 220v	14241	55	Pin Mid & Lwr #8405018	41384*
13	Cordset 15"x15" 120v	39768	56	Handle Frame (Assy)	18953
	Cordset 15"x15" 220v	72496	57	Foot Rubber 5/8 x 1/2	18406
	Cordset 16"x20" 120v	19623	58	Filter #10vk1 (CE only)	56782
	Cordset 16"x20" 220v CE	19895	61	Air Filter 1/4" npt F300-02-s10	71145
14	Fuse Holder Hkp-1	13037	62	Nut Push 5/8 Pw625019	82368
15	Fuse Mda-15 120v (N-840/N-640)	13045	63	Fitting Elbow M 229-4-2-1/4x1/8NPT	90522
	Fuse Mda-10 220v (N-840)	76752	65	Fitting-Con-f26-4-2 1/4 tx 1/8	23117
	Fuse Mda-8 220v (N-640)	13052	66	Assm Main Arm	16101
16	Grommet Rubber 4x561 3/8	13268	67	Valve Solenoid C-800 120V 4200-04-5387	10340
NP	Nut Hx 6-32 Zp	14621		C-800 220V 4200-04-5388	10359
18	Screw Mch Ph Phil 6-32x1/2 Zp	15297		N-840/640 120V 3823-05-A387	10421
19	Switch Rocker Red 26 Amp	94684		N-840/640 220V 3823-05-A388	10448
20	Term Bd 601-2-kt 37, 38, 39	72223	68	Air Gauge 100 Psi 1-1/2	65300
21	Term Bd 601-3-kt 37, 38, 39	72231	70	Link Upper #8405005	41384*
22	Relay 40 Amp Solid State (120v)(A)	84368	71	Link Lower #8405006	41384*
	Relay 25 Amp Solid State (220v)(A)	84350	72	Link Handle #8405008	41384*
	Relay 50 Amp Solid State (120v)(D)	65897	73	Cord Grip #1240 Heyco Sr7k2	13250
	Relay 25 Amp Solid State (220v)(D)	62731	74	Bushing 3/16x5/16/1/4	94536
23	Pin Main Arm #8405016	41384*	75	Control Vox Assy	41384
24	Pin Handle Pivot #8405015	41384*	76	Control Box back #8404002	41384*
25	Pin Dowel 3/16x1-3/4 Hard Gmd	18910	NP	Capacitor .03 1000vdc	29579
26	Pin Dowel 3/16x1-1/4 Hard Gmd	18902	78	Cover Protect 1x2-1/2	35394
27	Switch 7835k 11a Norm Closed	50547	NP	Adhesive High Temp. 2.8 oz.	10025
28	Spring Gas P3161 194lb (840/640)	30848	80	Screw Sktshldr 3/8x3/8	30538
29	Spring Air	57045	81	Bushing Platen Guide #8405001	41384*
30	Bushing 3/8x1/2x1/4 Ss1216-4	30945	82	Spacer Tube #8405002	41384*
31	Spring Extension 1/2" odx2-1/2"	71137	83	Spacer Link #8405014	41384*
32	Analog Timer (A)	28169	84	Tube Stop #8405003	41384*
	Digital Temp/Timer (120v) (D)	65312	85	Washer Flat 7/16 Uss Zp	12229
	Digital Temp/Timer (220v) (D)	65322	86	Bolt Nc Hh G5 1/2 x 5	71277
34	Handle Grip Assembly	26856	88	Coupling 1/4: Npt Bulkhd 28301	71161
35	Socket Timer 8pin Omron P3g-08	28304	89	Thermocouple (D)	83647
36	Switch Micro (840/640)	31823	90	Noise filter CE (A)	56782
	Switch Micro (800)	16097			
NP	Screw Mch Rh 10-24x1/2	15339			

*Indicates Custom Cut Part

WARNING: For continued protection against risk of fire, replace with the following fuses only:

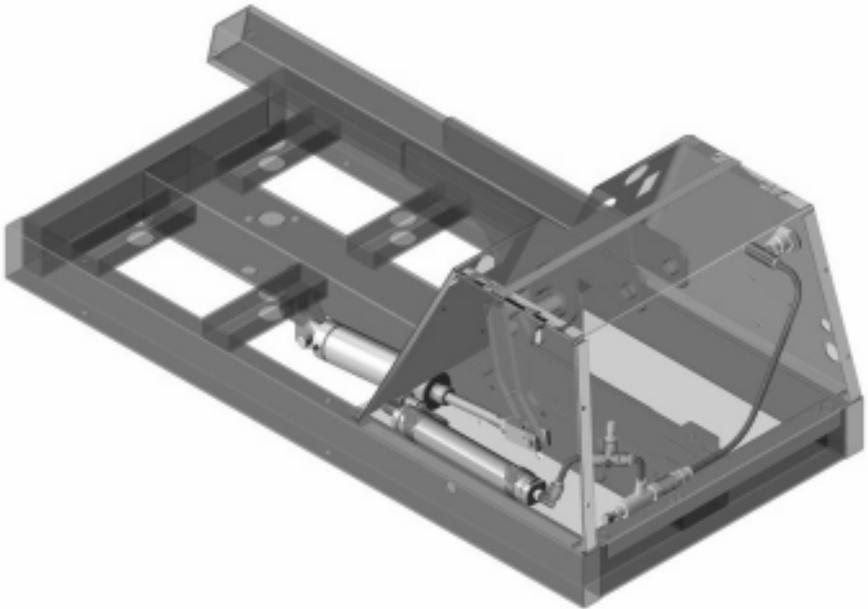
- 120 Volt Units - Buss MDA-15.
- 220 Volt N-840D & C-800D Units - Buss MDA-10.
- 220 Volt N-640D & C-600D Units - Buss MDA-8.

C-800/600 PARTS IDENTIFICATION

These drawings show the C-800/600 air spring component.

For all other parts identification,
refer to the N-840/640 diagram page 12/13.

C-800/600 Air Spring Component



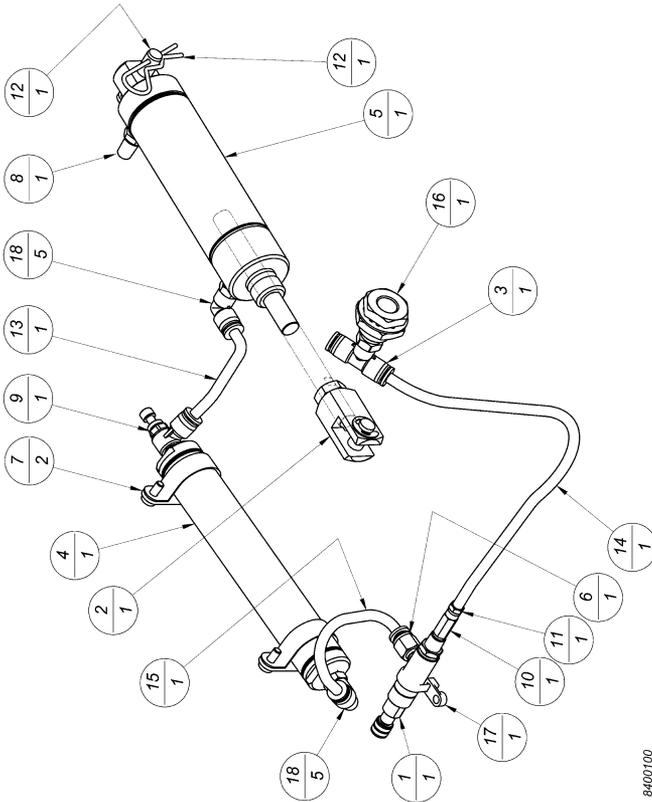
C-800/600 PARTS IDENTIFICATION

C-800/600 Air Spring Component Exploded View / Parts List

The drawing shows the C-800/600 air spring component.

For all other parts identification, refer to the N-840/640 diagram.

Parts List			
ITEM	QTY	PART N	DESCRIPTION
1	1	10685	REGULATOR NON RELIEVING
2	1	10693	ROD CLEVIS
3	1	10707	FTG 1T TEE BRCH 1/4TX1/4MPT
4	1	10715	AIR RESERVOIR
5	1	10723	CYLINDER DOUBLE ACTING 1.5x3
6	1	10731	FTG 1T CON MALE 1/4TX10-32
7	2	10774	STRAP LOOP NYLON 1-1/8
8	1	61662	MUFFLER 1/8 NPT SINT BRZ
9	1	62553	FTG 1/8 NPT FLOW CONTROL
10	1	64734	VALVE CHECK
11	1	64742	FITTING ADAPTER BARBED 10-32x.25 TUBE
12	1	66125	PIN CLEVIS 3/8x1-1/2 w/ COTTER PIN
13	1	67741	TUBE, NY
14	1	67741	TUBE, NY
15	1	67741	TUBE, NY
16	1	71161	FTG .25 NPT BULKHEAD
17	1	8405052	11551 - CABLE TIE
18	5	90522	FTG 1T EL MALE 1/4TX1/8NPT



8400100

WARRANTY

(Effective January 1, 2007)

HIX will automatically register the equipment on the date it was shipped to you or your distributor. If the equipment was not purchased directly from HIX, but through a distributor (either domestic or foreign), please keep a copy of their sales invoice showing the serial number and date it was sold/shipped to you with this warranty. In this case, we will use the distributor's invoice date as the beginning warranty date. **STAPLE A COPY OF YOUR RECEIPT TO THIS WARRANTY** and keep in a safe place to provide verification of your warranty should a problem occur. Thank you.

Please fill in the following information and attach a copy of your receipt for your records.

Date Purchased: _____ From: _____

Model #: _____ Serial #: _____

This warranty applies to equipment manufactured by the HIX Corporation (HIX), Pittsburg, Kansas, U.S.A. HIX warrants to the original purchaser, its Conveyor Dryers, Heat Transfer Presses, Mug Presses, Mug Glazer, Retensionable Screen Frames, Textile Printers, Spot Heaters, and Exposure Units against defects in workmanship and material, except for wear and tear for a period of "One Year" from the date of purchase. HIX warrants its Accessories, Reten Splines/Hardware/Tool Kit, and Shuttle for a period of 90 days from the date of purchase. DoughXpress and Thematrol products are covered under separate warranty.

In the event of a defect, HIX, at its option, will repair, replace or substitute the defective item at no cost during this period subject to the limitations of insurance and shipping costs stated below.

In the case of heat transfer presses (except the Mug Press, Hobby Lite), HIX warrants the heat casting for the "Life" of the machine for the original purchaser. If a part becomes obsolete at the time for repair, and/or cannot be reasonably substituted for, HIX will credit, at half the then current list price or last recorded price, only that part toward a new machine or any product HIX offers. This credit offer shall be the sole responsibility of the HIX Corporation in the event of an obsolete part.

This warranty does not cover belts, pads, mug wraps, mug press liners, canvas, rubber blankets, bulbs, glass, PTFE or finish, rod ends, turn buckles on printers, or mug press or damages due to accident, misuse/abuse, alterations or damage due to neglect, shipping or lack of proper lubrication or maintenance. HIX shall not be responsible for repairs or alterations made by any person without the prior written authorization by HIX. This warranty is the sole and exclusive warranty of HIX and no person, agent, distributor, or dealer of HIX is authorized to change, amend or modify the terms set forth herein, in whole or in part.

In the case of a problem with the equipment identified herein, HIX Corporation should be contacted during regular business hours to discuss the problem and verify an existing warranty. HIX personnel will assist the customer to correct any problems which can be corrected through operation or maintenance instructions, simple mechanical adjustments, or replacement of parts. In the event the problem cannot be corrected by phone, and upon the issuance of a return authorization by HIX, the equipment shall be returned to HIX or an authorized service representative. All insurance and shipment/freight costs are solely the responsibility of the customer, and not that of HIX, and HIX shall not be responsible for improper handling or damage in transit. HIX offers a reconditioning service and a core exchange/credit policy on some models. HIX customer service personnel may be contacted for complete return authorization and reconditioning information.

This expressed warranty is given in lieu of any and all other warranties, whether expressed or implied, including but not limited to those of merchantability and fitness for a particular purpose, and constitutes the only warranty made by HIX Corporation.

In no event shall HIX's liability for breach of warranty extend beyond the obligation to repair or replace the nonconforming goods. HIX shall not be liable for any other damages, either incidental or consequential, or the action as brought in contract, negligence or otherwise.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



Manufacturers of the Finest Quality Textile and Graphics Screen Printing and Heat Transfer Equipment

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