

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 Spines/Hardwater/Tool Kit, and Shuttle for a period of 90 days from the date of purchase. DoughXpress and Thermoatrol 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, and FH-3000 Flat & Cube Press), 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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TT062907

TT-180

Fluorescent Table Top Exposure Units

OWNER'S MANUAL



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:
Call 1-800-835-0606

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY
Bulbs do not come on and red light on main power switch is off	No line power Supply fuse or breaker blown Unit main breaker is blown Main power switch is defective Outlet is defective	Check power source Reset supply breaker or replace fuse Reset unit's main breaker Replace switch Replace outlet
Bulbs do not come on and red light on main power switch is on	Bulbs are burned out Ballast is bad	Replace Bulbs Replace Ballast
Unit blows fuses or trips Main Power Circuit Breaker	Check amperage of supply breakers or fuses Shorted ballast	Replace supply breakers or fuses with minimum rating of 15 amps Replace ballast
Lamp fails to remain ignited	Bad Lamp Bad Ballast	Replace Lamp Replace Ballast
Blanket won't "pull" a vacuum	Vacuum leak Clean Residue of seal	Check hose connections to vacuum pump and to blanket frame. Check gasket to glass seal, replace if necessary. Realign lid. Check vacuum pump.
Longer Exposure Times	Dirty Glass Worn Out Bulbs	Clean front or back of glass. Replace <u>ALL</u> bulbs.

INSTALLATION/ OPERATION

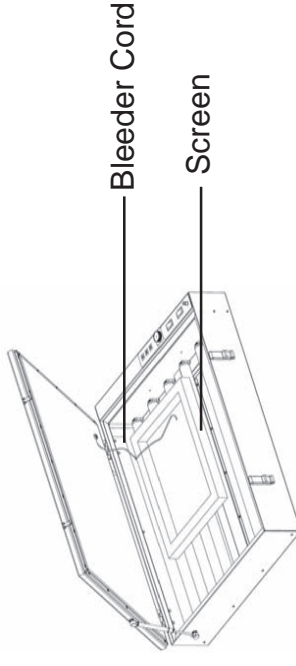
Setup

1. Plug in your unit to your power source and turn on power switch.

WARNING: During operation make sure the vacuum blanket top is closed and latched (both sides) to prevent UV light exposure to eyes or skin.

Loading Screen / Starting Vacuum

1. Raise the lid and place frame in center of glass, screen side down. **Maximum** screen size 23" x 31".



2. Place bleeder cord inside frame as close to the frame side as possible. (See illustration above) **NOTE:** This cord facilitates vacuum and releasing or draining off the vacuum after exposure.
3. Close lid and latch with the rubber latch-hooks.
4. Turn on vacuum switch.
5. Check for proper draw down of blanket.

OPERATION

Digital Timer



- Digital Timer Operating Instructions TT-180
1. Turn Main Power "On". Timer will illuminate.
 2. To change time setting, press the "UP" or "Down" arrow button on the front of the timer face. Timer will display "Minutes" and "Seconds".
 3. Once the new time is entered, press the "MD" button on the face of the timer to lock in this new setting. Failure to press the "MD" button will not "lock" in the new setting.
 4. Press the "Start" button on the control panel. This will start the timer and turn the exposure lamp on.
 5. Timer will count down and when time reaches zero, the exposure lamp will extinguish.
 6. If at any time you want to extinguish the exposure lamp before time expires, you may do so by pressing the "RST" button on the face of the timer.

Expose Screen

1. Set for the optimum exposing time for the screen you are going to expose. See "Determining Your Optimum Exposure Time" page 6 or your filled in chart in the back of this book if you have already determined your exposing time.
2. Push start button to initiate your set exposure time.
3. At the end of the set exposure time you can turn off the vacuum switch and unlatch the rubber latch hooks to release the lid.

Determining Your Optimum Exposure Time By Trial

1. Follow normal operations explained previously.
2. Inspect your newly exposed screen for proper exposure.
Underexposed: results in weak stencil with poor emulsion adhesion and reduced resistance to printing inks and wash up solvents. **Overexposed:** results in loss of fine detail.

REPAIRS

Blanket Replacement

8. Lay new blanket material across the lid in the proper orientation allowing the material to sag down to your working surface.
9. Seal the rubber to the blanket frame with the included adhesive.
10. Replace the aluminum strips on the same side that they were removed. Tighten all screws securely. Caution: over tightening screws may strip the threads in the lid frame.
11. Trim any excess blanket material by running a sharp utility knife along the outside of the aluminum frame.

REPAIRS

Blanket Replacement

NOTE: If the blanket fails to pull a vacuum, check the Trouble-shooting Chart for possible causes. If you determine that your blanket has begun to leak, it needs to be replaced. New blanket material can be ordered from HIX Corporation.

NOTE: Mark from which side the aluminum strips were located so that they can be replaced in the same location.

1. Begin with the lid in the open position. Remove the plastic cap from the lid end of one of the gas springs. While holding the lid, pull the end of the gas spring straight out and off of the ball connector as you continue to manually hold the lid up.

Caution: It is important to do this operation with the lid up, failing to do so could cause injury due to the sudden release of pressure on the gas spring!

2. Remove the vacuum hose from the lid.
3. Gently lay lid back down onto glass. Using two 9/16" wrenches, remove the 4 nuts and bolts holding the lid to the hinges.
4. Remove the entire lid assembly from the frame and lay upside down on a flat surface.
5. Mark from which side of the aluminum strips were located so that they can be replaced in the same location.
6. Remove all screws from the aluminum strips.
7. Remove the blanket material and any adhesive still attached to the lid frame.

OPERATION

3. Once you have determined the proper exposure for your emulsion type fill in the chart provided at end of this manual as a ready reference. This will save you time in the future.

NOTE: This procedure should be followed for each new emulsion type or new mesh count. This procedure should also be followed periodically as bulb intensity will lessen with age. Use chart at the end of this booklet.

Determining Your Optimum Exposure Time By Exposure Calculator (Preferred Method)

1. Follow normal operations explained on page 4.
2. Place exposure calculator on screen following calculator's instructions.
3. Set timer dial to **double** the **estimated** exposure time.
4. Inspect your newly exposed screen according to calculator's instructions.
5. Multiply the previously set exposure time by number indicated on the exposure calculator.
6. This new number is the proper exposure for you emulsion type. Fill in the chart provided at end of this manual as ready reference.

NOTE: This procedure should be followed for each new emulsion type, new mesh count or mesh type (i.e. yellow, orange, white). This procedure should also be followed periodically since the bulb intensity will lessen with age.

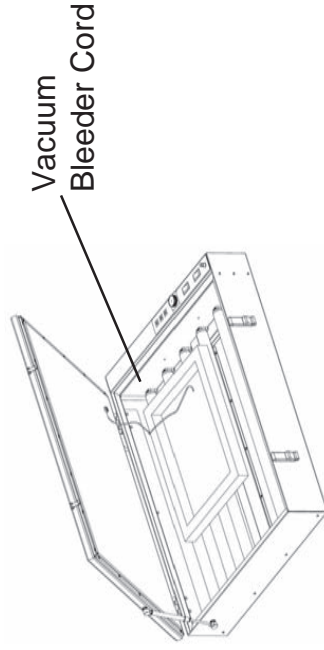
OPERATION

Glass Cleaning or Bulb Replacement

In order to maintain short exposure times, keep the unit's exposure glass clean. Dusting is usually sufficient. If more cleaning is required use a soft cloth moistened with alcohol. A dusty environment will require more cleaning.

When you notice your exposure times getting longer or if the lamp fails to operate, check the Troubleshooting Chart on page 10.

To clean back side of glass or replace bulbs:



1. Carefully lift front of glass from the gasket (leave back of glass resting on its gasket).
2. Remove old bulb, Insert new bulb.
3. Carefully replace the glass as it was before.
4. Clean underside and lay back down carefully.

WARNING: To lift glass use flexible (non rigid) item such as putty knife. If you lift the glass, do so carefully so as to not scratch or break the glass. Never use a screwdriver.

MAINTENANCE

Lid Realignment

NOTE: The vacuum is sealed under the lid by means of rubber gasket under the lid frame. This rubber gasket may compress over time. If the vacuum does not occur, the rubber gasket may be compressed. These problems can be alleviated by lowering the hinges.

CAUTION: It is important to do this operation with the lid up, failing to do so could cause injury due to the sudden release of pressure on the gas spring!

1. Fully open the lid.
2. Using a pencil, tape, or other suitable indicator, place a mark on the frame of the unit corresponding with a mark on the lower leaf of the hinges.
3. Using a 9/16" wrench, loosen the four bolts fastening the lower leaf of the hinges.
4. Let each hinge drop approximately 1/16" using the indicator placed on the hinge in step 2.
5. Tighten all four bolts securely and test unit. If this does not work repeat this process and drop the hinges another 1/16"

Warning: Lowering the hinges too much can place excess pressure on the glass and frame of the unit and should be avoided. If the lid is difficult to close or does not stay closed under it's own weight, the hinges should be raised.