

# HT-400E & HT-600E

Manual Analog Clamshell  
15"x15" & 16"x20" Heat Transfer Machines

## OWNER'S MANUAL



HT-400E



**HIX CORPORATION**

For Customer Service, Call **1-800-835-0606**  
or Visit [www.hixcorp.com](http://www.hixcorp.com)

### CONTENTS

Receiving.....	2
Setup .....	3
Temperature & Pressure.....	4
Operation.....	5
Troubleshooting.....	6
Repairs & Maintenance .....	7
Warranty .....	8

**BEFORE warranty repair you MUST get Prior Authorization:**

# RECEIVING

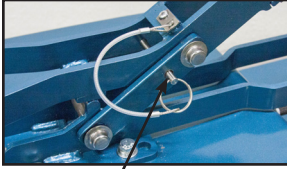
## SHIPPING OR RETURNS

**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. Insert the handle lock pin into the secure (lower) pin hole on the handle.



**Lock/Transport Position**



**Operation Position**

3. Tie or tape handle securely to base.
4. 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.)

## 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.

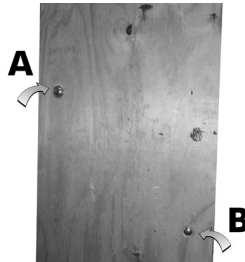
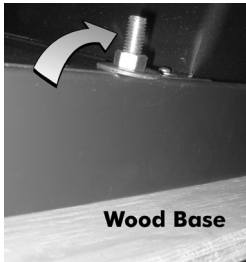
## INSPECTION

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

# SETUP

## INSTALLATION

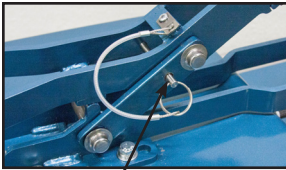
1. Remove plywood shipping base bolts (see a and b) and screw on feet or affix self-adhesive rubber feet provided.



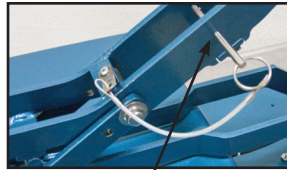
**CAUTION:** handle must be tied to base before moving or shipping.

**ATTENTION:** Immobiliser la poignée avant de transporter.

2. Carefully cut tape/wrap holding machine closed.



Lock/Transport Position



Operation Position

3. With one hand on the handle to prevent the press from spontaneously opening, transpose the handle lock pin from the "lock/transport position" to the "operation position".
4. 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' (7.762 M).

**⚠ ATTENTION:** Utiliser des rallonges d'au moins 12 à 14 ga - 3 phases; longueur maximale de 7.7 Mètres.

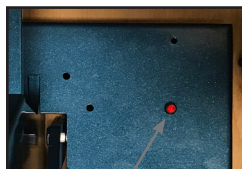
# TEMPERATURE & PRESSURE

## ON/OFF & TEMPERATURE

1. Turn temperature knob to desired setting (refer to your transfer manufacturer's guidelines). Heat indicating light will come on. While the machine is heating, the heat light will remain on until it has reached set temperature. The heat light will cycle on and off in order to maintain the desired temperature.
2. Turn temperature knob to "off" position when you are done.



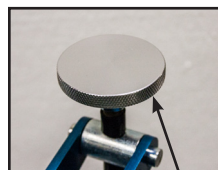
Temperature knob



Heat Indicating Light

## PRESSURE ADJUSTMENT

1. The pressure control knob, located on the top of the machine, should be set so that the heat head will lock down firmly.
2. Pressure is reduced by turning knob (with machine open) counter-clockwise and increased by turning it clockwise.



Pressure knob

**NOTE:** Adjustments may be required from one garment to another and will vary to achieve the desired result.

**⚠ WARNING:** Excessive pressure can cause structural damage, voiding the machine warranty!

**⚠ ATTENTION:** Pression excessive peut endommager la machine et annuler la garanti.

## OPERATION

The 120 volt models have a slower heat recovery (i.E. 18-20 Seconds @ 375°F). The 220 volt models are recommended for quicker cycle times (i.E. 10 Seconds @ 375°F).

1. Set the temperature, time, & pressure to the desired settings as instructed. 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 substrate on lower platen. Smooth wrinkle from garments.

**NOTE:** Wrinkles may be removed by bringing the heated platen in contact with the garment for a few seconds before the transfer is positioned.

3. Position the transfer in the desired location on the substrate.

**NOTE:** The transfer image should be “mirrored” before transferring except when transferring to substrates where the image shows through, i.e. Glass tiles and cutting boards.

**TIP:** *When transferring double sided or sublimation transfers to garments, always place a sheet of transfer paper or a ptfе sheet between the layers of the garments to avoid bleed through or reheating of the applied transfer.*

4. Pull the handle down until the handle locks.

**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.

For hot peel/split transfers, immediately peel the paper after the machine has opened. Do not allow the transfer to cool. For cold peel transfers, rub the transfer with an eraser or cloth and allow to cool for 5-10 seconds before removing the release paper.

# TROUBLESHOOTING

**NOTE:** Specific application instructions are enclosed with transfers.

When you fail to make a successful transfer you can wonder, “is it the machine’s fault, or the transfer, wrong settings or what”?

## **FIRST, THE BASICS:**

1. Be sure to set the heat transfer machine to the transfer manufacturer’s recommended temperature, time and pressure settings. If you don’t have these specifications, contact your transfer supplier for this information and any other special application instructions as many of the new “high tech” transfers require significantly different settings and/or application techniques than those from years past.
2. When you start up your press for the first time each day, preheat the pad for a minute. If the press has sat for 3-5 minutes without use, be sure to “preheat” the pad for 10-15 seconds before loading the shirt or making the first transfer.
3. After the shirt is positioned and centered on the preheated pad, “pre-press” the shirt for 3 seconds to take the wrinkles out and more importantly, release any excess moisture out of the t-shirt fabric which can reduce the chance of a successful transfer.
4. With all of the above recommendations, try making a transfer.
5. If successful, great! You are on your way to making some serious money with your transfer machine!
6. If you have an area that isn’t transferring completely or as you would like it to, follow these steps to determine the problem.
  - Try increasing the pressure on the machine by 10-20%
  - Recheck your temperature required and the press readout. You may want to increase the temperature 10 degrees.
  - Try increasing the application time by 2-4 seconds
  - If after trying these things there is still a “specific” area (say over in one corner of the transfer) that isn’t coming out as you would like it to, then try the same type transfer on a scrap shirt but rotate the transfer 180 degrees (changing the failure location) if after doing this the problem area is in the same physical location on the machine, then you probably have a problem with the pad or possibly a warped platen if the machine has ever overheated severely. On the other hand if the transfer failed in the same area on the transfer (after changing the location of where the problem had previously been occurring), then you most likely have a problem with the transfer or it’s application settings (temperature, time or pressure) and you should contact your transfer supplier to discuss the problem.

Following these basic guidelines can help you be more successful with each and every transfer!

# REPAIRS & MAINTENANCE

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

**⚠ ATTENTION:** éteindre la machine avant de faire des réparations.

**⚠ ATTENTION:** afin d'éviter des choques électriques, éteindre la machine avant d'ouvrir.

## THERMOSTAT

1. If there is little/no heat or the machine overheats, your thermostat may need replaced.
2. Call HIX technical service at 800-835-0606 or visit [www.hixgraphics.com](http://www.hixgraphics.com) for instructions and to order.

## FUSE REPLACEMENT

1. Remove bottom cover of the machine and locate internal fuse holder on inside of the machine.
2. Remove blown fuse. Replace with a mda-15 fuse.
3. Replace bottom cover of machine.

## RELAY BYPASS

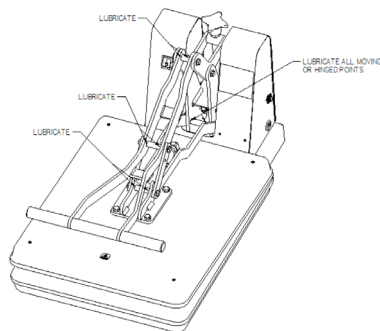
1. Remove the back cover of the machine.
2. Remove wire #26 from terminal #2 on relay.
3. Loosen terminal #1 on relay and replace wire #26 along with wire #12 under terminal #1.
4. Tighten the connection.
5. Plug machine in and turn the power switch on.

**NOTE:** Replace the relay if the machine starts heating. This is a test only. Do not operate machine with relay bypassed.

# MAINTENANCE

## LUBRICATION

Your press requires lubrication every 15,000 cycles or every 6 months. Lubricate weekly in a heavy use production environment. Use NSF/NLG12 rated food grade grease (such as Bel-Ray No-Tox #2 or equivalent). A general purpose food grade machine oil spray is also acceptable such as CRC03055 lubricant (available from retailers such as Amazon). Lubricate all moving or hinged points.



## CLEANING HEAT PLATEN

Clean the heat platen with steel wool, scrubbing aluminum sponge, or fine wire brush.

# WARRANTY

(Effective October 30, 2015)

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 Ovens and 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. Thermatrol and doughXpress 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 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, rail tape, pads, mug wraps, canvas, rubber blankets, bulbs, glass, rod ends, turn buckles on printers 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, packaging and shipment/freight costs are solely the responsibility of the customer, and not that of HIX, and HIX shall not be responsible for improper packaging, handling or damage in transit. Contact HIX customer service for complete return authorization information. Correct shipping boxes are available from HIX.

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.

**HIX** CORPORATION  
Design and Manufacturers of Graphic Imaging, Commercial Food, Industrial and Custom Drying Equipment

1201 E. 27th Terrace • Pittsburg, KS 66762 • U.S.A.  
Web site: [www.hixcorp.com](http://www.hixcorp.com) • Phone: (800) 835-0606 • Fax: 620-231-1598  
E-Mail: [customerservice@hixcorp.com](mailto:customerservice@hixcorp.com) • E-Mail: [sales@hixcorp.com](mailto:sales@hixcorp.com)