



OPERATING & SERVICE PARTS MANUAL
HDX-3040 L BAR SEALER



READ ALL INSTRUCTIONS CAREFULLY BEFORE OPERATING EQUIPMENT

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SHIPPING DAMAGE CLAIMS

Upon the arrival of your new machine, inspect the crate for any visible damage and then carefully uncrate or unpack the machine and inspect it for any visible damage or missing parts.

If any damage is found, it is your responsibility to contact the carrier and immediately file a claim. Heat Seal is not responsible for any damages to the machine incurred during the shipment once it leaves our facility in Cleveland, Ohio. If there are any missing parts, contact Heat Seal Customer Services immediately.

HEAT SEAL LIMITED WARRANTY

Heat Seal will warrant its equipment against defective parts for a period of two (2) year from the shipment to your address unless specified otherwise.

Parts will be replaced by Heat Seal to your Authorized Distributor upon the receipt of the defective part at our factory in Cleveland, Ohio. Any related labor, service or expendable parts such as wires, sealing bars, cut-off rules, sealing pads, and belting material are not included.

Any part not manufactured by Heat Seal carries the manufacturer's warranty.

THE WARRANTY WILL BE VOIDED IF THE EQUIPMENT IS NOT INSTALLED BY A HEAT SEAL AUTHORIZED DISTRIBUTOR SERVICE TECHNICIAN. THE PURCHASER IS SOLELY RESPONSIBLE FOR THE SAFE INSTALLATION AND OPERATION OF THE EQUIPMENT. DAMAGE DUE TO MISUSE, MISAPPLICATION, OR MODIFICATIONS WILL NOT BE COVERED BY THIS WARRANTY.

HEAT SEAL WARRANTY RETURN PROCEDURE

Have your service technician examine the application, the machine and the parts to determine if they can be covered by the above warranty.

Next have the technician call Heat Seal Customer Services (See back page for contact information) and request a Return Authorization number (RA#).

Place an order for the replacement part(s). On the order, refer to the RA number and model serial numbers (found on the nameplate on the machine).

Return the defective part or parts pre-paid to Heat Seal. The customer service department will examine the returned part or parts and issue a credit should the part be found defective.



INSTALLATION AND OPERATION OF THIS SYSTEM MUST BE IN COMPLIANCE WITH ALL APPLICABLE ELECTRICAL AND SAFETY STANDARDS. A QUALIFIED ELECTRICIAN MUST CHECK THE ELECTRICAL SUPPLY CIRCUIT TO INSURE CORRECT VOLTAGE AND CAPACITY. THE SYSTEM IS DESIGNED FOR INDUSTRIAL USE BY QUALIFIED PERSONNEL ONLY.

- A single, grounded 115 volt circuit with a minimum 20 amp capacity dedicated circuit is all that is required to operate the unit. The power cord for the 220 volt system is shipped without a plug on it. The electrician or service person will have to install the proper plug to match the receptacle you are using or hard wire the power cord into a wall mounted box to meet local electrical codes.

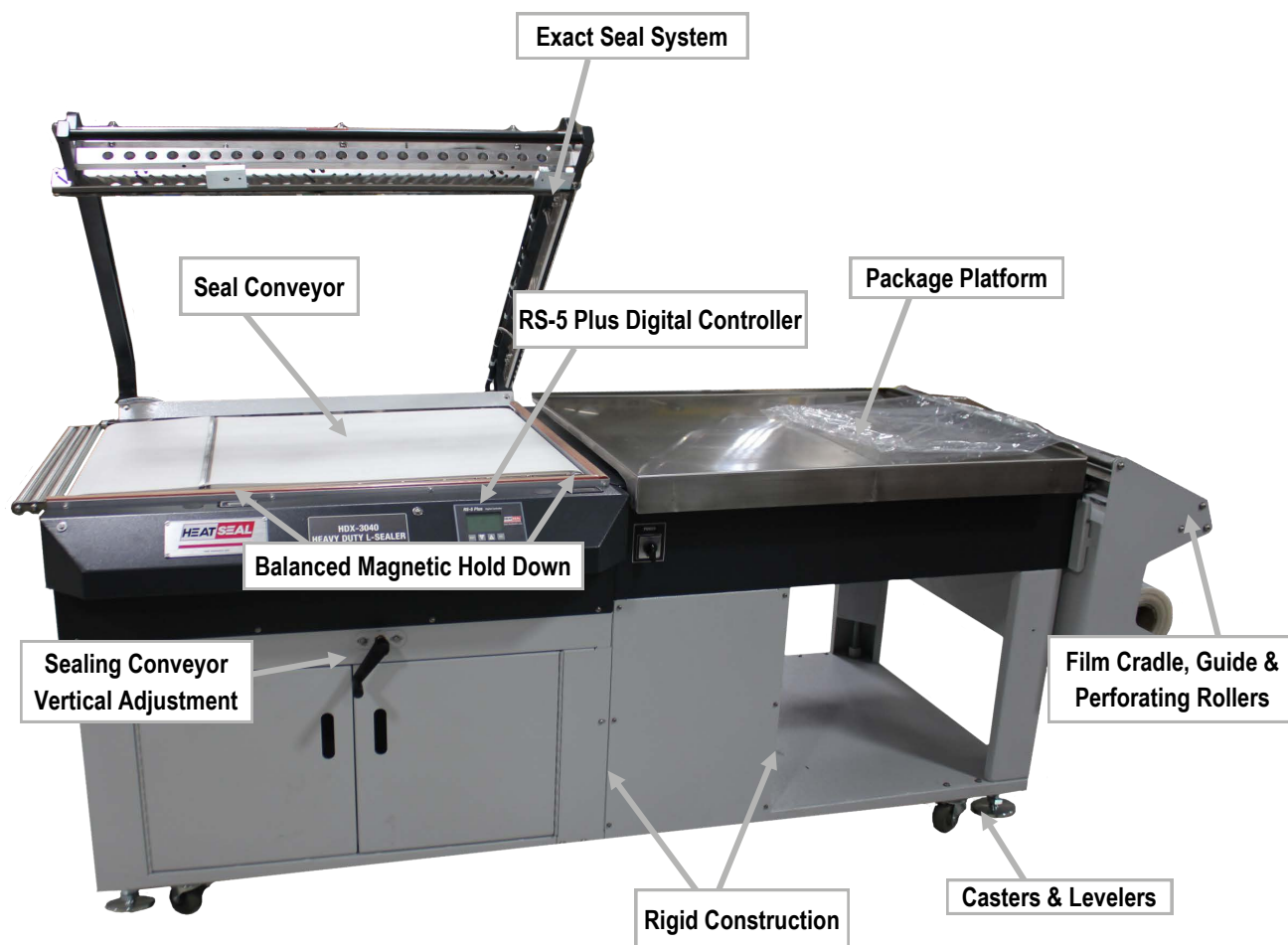
UNPACKING THE SYSTEM

- The HDX-3040 is a unitized L bar sealer machine . Your machine is shipped on a pallet with the L Sealer and Conveyor standing on a Console Leg Kit.
- Once the system has been unpackaged, check the system for any damage or missing parts. For your convenience, a wiring diagram is packaged with your unit. Heat Seal is not responsible for damage once the equipment has left our factory. Report any damage to your distributor and the shipping company. If there are missing parts, contact your distributor immediately.
- The system is equipped with casters for easy movement when necessary and levelers to be used to level and provide stability to the system during the shrinking and sealing operation.
- Extra Non-Stick tape is shipped with each L Bar Sealer. This tape prevents film build up on the sealing wire and will assist in providing better seals with most films.
- On the back of the operating console is the main system power cord. The 220 volt system is shipped without the plug. Your local certified electrician or service technician will have to either install the proper plug to match the receptacle you use or hard wire the power cord into a power box to meet state and local electrical codes.

STANDARD FEATURES



MACHINE FEATURES



MACHINE SPECIFICATIONS

| | |
|--------------------|----------------------|
| Film Capacity | 34" Wide |
| L Bar Sealing Area | 30" W, 40" L |
| Overall Dimensions | 104" L, 47" W, 64" H |
| Working Height | 37" From Floor |
| Power Requirement | 115V, 20A |
| Weight | 900 lbs. |

STANDARD FEATURES



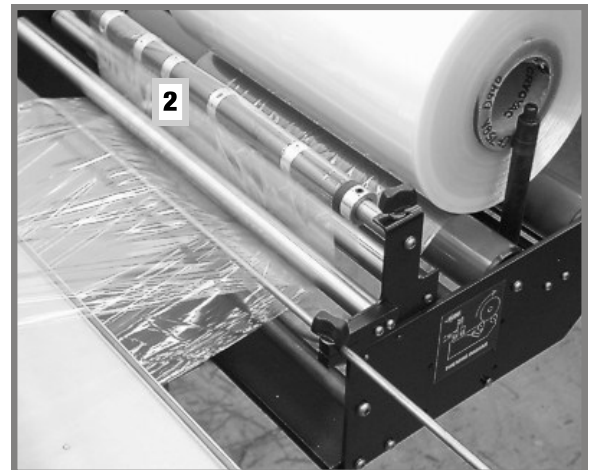
RS-5 PLUS DIGITAL CONTROLLER (1)

Configuring machine controls has never been easier. The standard **RS-5 Plus** digital controller is conveniently positioned for operator ergonomics, and has a three year warranty on original machine controller. The **RS-5 Plus** is designed to be simple to use with extremely precise temperature controls. Control Panel meets the UL 508A standard.



AIR VENTING (2)

Air venting the film is required for most shrinking applications. The standard option is installed with adjustable perforating rollers to make a series of small holes continuously as the film is being drawn from the roll in the normal operation of packaging. With the heated hole punch option, the heat element located on the seal arm burns a single hole through the top layer of film.



EXACT SEAL SYSTEM (3)

The Exact Seal System is a NEW standard HDX feature that performs exactly as named. The frame and seal bars are connected so they will repeatedly be exactly aligned when making a seal. This feature allows for an exact and perfect seal every time.

FILM CLAMPS (4)

Film clamps ensure a good seal. The clamps are located on the front and side sealing bars, are spring loaded and set at the factory.



BALANCED MAGNETIC HOLD DOWN (5)

Magnet plates on the front of the sealing arm and magnets on the front of the sealing area are used to insure an even, consistent seal along the sealing pad. The position of the magnets have been engineered to apply the maximum seal pressure, and provide a clean seal every time. *The SEAL TIME control determines the time the magnets will hold down the arm when proper seal has been made.*

SEAL CONVEYOR (6)

This conveyor is designed to increase wrapping efficiency by automatically moving the sealed package out of the sealing area once the sealing cycle has been completed. *The SEAL CONVEYOR RUN TIME control determines how long the conveyor will run after the sealing cycle.*

OPTIONAL FEATURES



STAINLESS STEEL CONSTRUCTION

The stainless steel construction option converts all hardware and painted machine parts to stainless steel. Selecting this option will not make the HDX Combo into a wash down unit. The Stainless Steel HDX Combo designed to be a wipe down machine in damp environments.

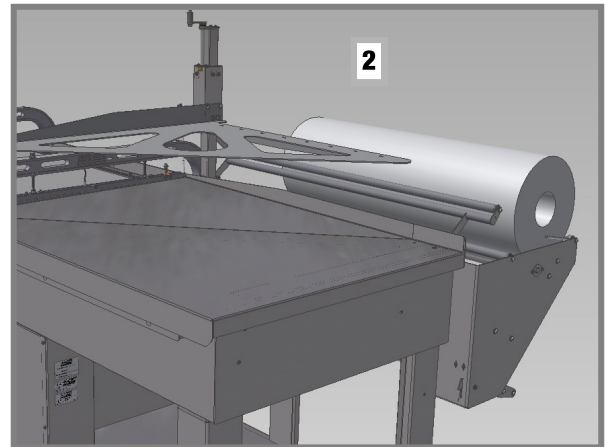
HEATED HOLE PUNCH (1)

The heated hole punch (1) is used to place one single hole in a package for air evacuation replacing the perf rollers. Typically the single hole will be covered by a label or double wrapped to provide a more complete seal in certain food applications.



POWERED FILM UNWIND (2)

The Powered Film Unwind option is used to increase speed and productivity by allowing the operator to easily insert the package into the film.

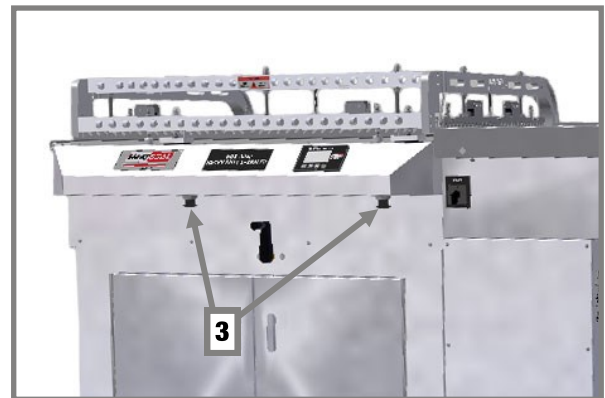


LEFT HAND REVERSE FLOW

Standard machine flow is right to left. In some situations due to production line flow or space constraints left handed operation is required. The left hand machines flows from left to right where the package to be wrapped starts on the product tray at the left, and the finished shrink wrapped package exits the shrink tunnel at the right.

AIR OPERATION

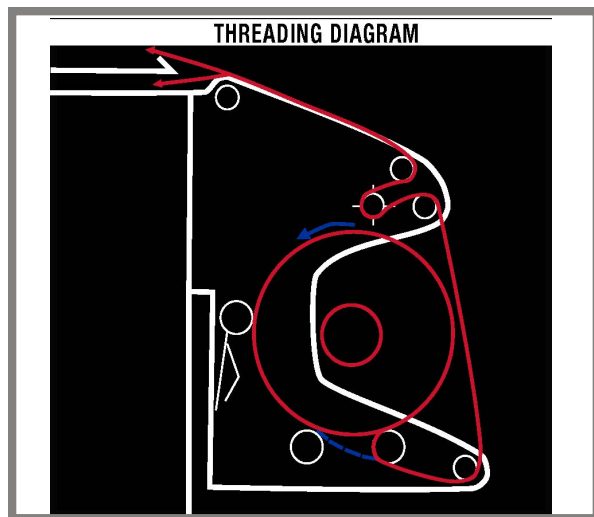
Air Operation is used to provide an ergonomic option to the standard manually operated L Bar sealing arm. The operator must use both hands to press the buttons (3) under the control panel.



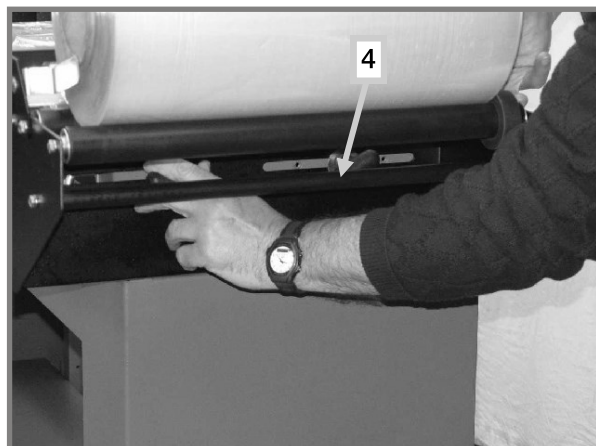
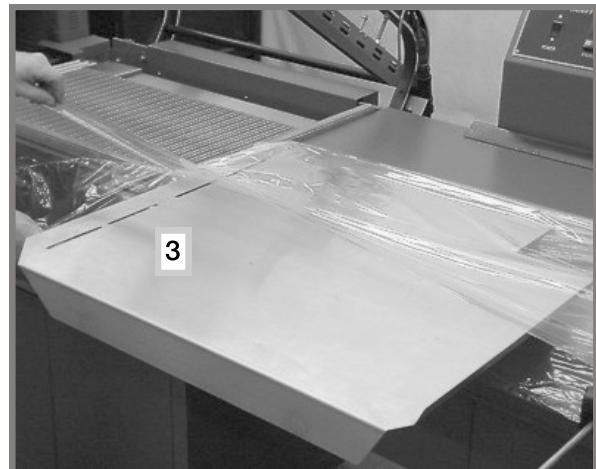
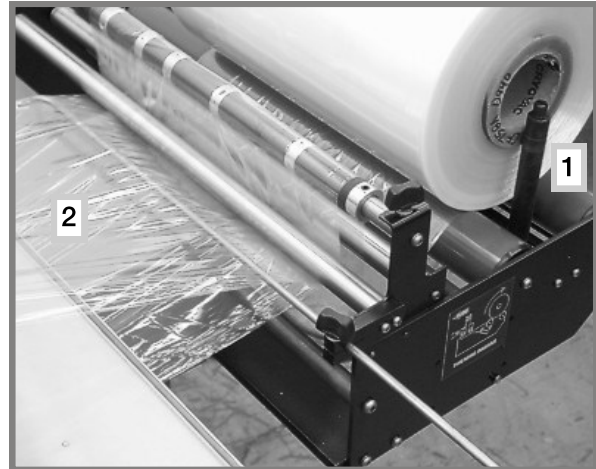
STANDARD FILM THREADING

- Place a roll of centerfold film (1) on the film rollers with the open side towards the operator side of the L sealer (2). The film rack is adjustable to accommodate the various size package with the same width roll of film.

(See Threading Diagram)



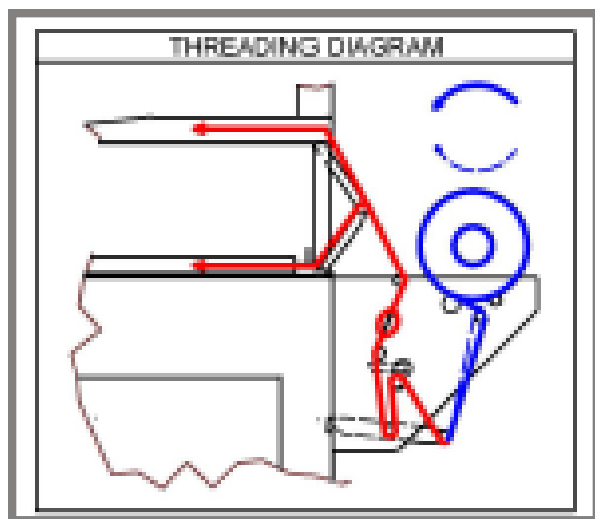
- Place the product to be wrapped on the package platform (3). Then, lightly lift the film cradle and position the cradle so that the folded edge of the film is even with the back of the package to be wrapped. If the proper width of centerfold film is being used, this position will provide a minimum of 1 1/2 to 2 inches of film for trim across the front sealing area.
- This is a recommended starting position and adjustments should be made to provide the appropriate film around the package for shrinking and conservative use of your film.



POWERED FILM UNWIND & INVERTER FILM THREADING

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(See Threading Diagram)



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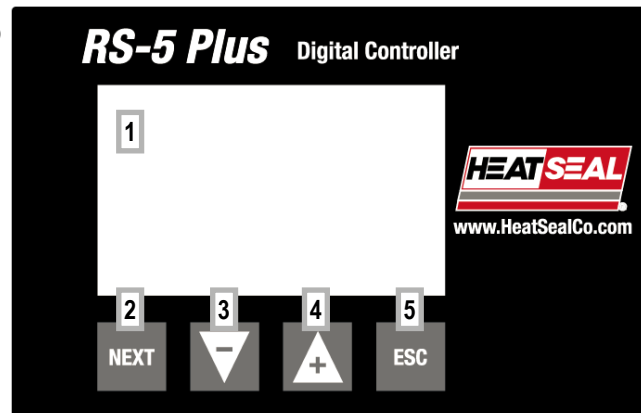


- This is a recommended starting position and adjustments should be made to provide the appropriate film around the package for shrinking and conservative use of your film.

RS-5 PLUS FEATURES & START UP



The **RS-5 Plus** is a programmable digital controller designed to control adjustable machine settings with the easy to use control pad. The digital controller is configured to control impulse or hot knife L Sealers equipped with or without a shrink tunnel.



MENU SCREEN (1)

The Menu Screen displays the programmed machine settings.

NEXT (2)

The 'NEXT' button navigates through menu options.

DOWN/UP (3/4)

Both the '▼' & '▲' keys are used to make changes to individual variables within the menu options. By pressing the '▲' key, the value of the menu option will increase, and pressing the '▼' key will decrease the value.

ESC (5)

The 'ESC' key gives the operator access to the parameters. When in the 'RUN', or home menu screen, the 'ESC' key is used to access the parameters. To exit the parameter screen, the 'ESC' key is used to return back to the 'RUN' screen. After 10 seconds of inactivity the display will automatically revert to the 'RUN' or home screen.

POWERING ON AND WARM UP

If the machine is connected to service power, and the ON/OFF switch is OFF, the menu screen will read OFF.

When the ON/OFF switch is ON, the machine is beginning the warming up process. These are the screens that will show in the warm up mode:

- **For L Sealer Impulse Wire Machines**— the menu screen will change from 'OFF' to 'RUN', and is ready to begin the packaging process.
- **For L Sealer Hot Knife Machines**— the menu screen will read 'MACHINE ELEMENTS WARMING UP, PLEASE WAIT' until the Hot Knives reach the factory default or set point.
- **For L Sealer Shrink Tunnel Combination Systems with Impulse Wire**— the menu screen will read 'MACHINE ELEMENTS WARMING UP, PLEASE WAIT' until the Tunnel Temp reaches the factory default or set point.
- **For L Sealer Shrink Tunnel Combination Systems with Hot Knife**— the menu screen will read 'MACHINE ELEMENTS WARMING UP, PLEASE WAIT' until the Tunnel Temp and Hot Knives reach the factory default or set point.

Upon reaching the temperature set points, the home screen will read 'RUN'. The operator may now begin the packaging process.



BELOW DESCRIBES MENU SETTINGS FOR L BAR SEALER HOT KNIFE MACHINES

SEAL TIME

'SEAL TIME' is the amount of time the magnets hold the seal bars in the sealing position. This setting ranges from 0 (Off) to 2 (Max) seconds. The factory default setting is 1 second. Press the '▼ or ▲' keys to decrease or increase the value of the menu option.

SEAL CONVEYOR RUN TIME

The 'SEAL CONVEYOR RUN TIME' is the time the sealing conveyor runs after the seal has been made to transfer the product away from the seal area and/or into the Shrink Tunnel. The factory default setting is 2 seconds on a scale from 0 (Off) to 10 (Max) seconds. Press the '▼ or ▲' keys to decrease or increase the value of the menu option.

SEAL CONVEYOR SPEED

The factory default setting is set at 5 on a range from 1 (Very Slow) to 10 (Fast). Press the '▼ or ▲' keys to decrease or increase the value of the menu option. **On retrofit kits, the Conveyor Speed is controlled by a knob on the control panel.**

FRONT KNIFE TEMPERATURE

This menu option shows two temperature readings for the hot knife running parallel to the seal conveyor. The first temperature reading is the Set Point (SET), the second temperature reading is the Actual temperature (ACT). The factory default setting for the Set Point is 315°F, and the Max setting is 375°F. If the machine is equipped with the Poly-Knife profile, the Max setting is 425°F. Press the '▼ or ▲' keys to decrease or increase the value of the menu option.

SIDE KNIFE TEMPERATURE

This menu option shows two temperature readings for the hot knife crossing the path of the seal conveyor. The first temperature reading is the Set Point (SET), the second temperature reading is the Actual temperature (ACT). The factory default setting for the Set Point is 315°F., and the Max setting is 375°F. If the machine is equipped with the Poly-Knife profile, the Max setting is 425°F. Press the '▼ or ▲' keys to decrease or increase the value of the menu option.

CYCLE COUNTER

This menu option counts the number of times the Seal Bar is pulled down to make a seal and actuates the Cycle Start Button at the back of the machine. To reset the count access the 'CYCLE COUNTER' menu screen and hold the '▲' key until the counter resets to 0. The current cycle count is visible from the Home or 'RUN' Screen.

HOT HOLE PUNCH

This menu option is only visible if the optional Heated Hole Punch is purchased with the original machine. This setting ranges from 0 (Off) to 10 (Very Hot). Press the '▼ or ▲' keys to decrease or increase the value of the menu option.

TROUBLESHOOTING GUIDE FOR HOT KNIFE MACHINES

L SEALER



There are four (4) alarms that can occur anytime the controller is powered. The L Sealer will not operate during any of these alarm conditions. The alarms will show on the screen until the solution is fixed.

1. 'FRONT KNIFE HEAT SIGNAL LOST, CHECK RTD'

- This alarm signals when the RTD for the front hot knife is disconnected or malfunctioning. The front knife is the knife closest to the operator running parallel to the face of the machine. Call a local Heat Seal distributor to properly diagnose and fix this issue.



2. 'SIDE KNIFE HEAT SIGNAL LOST, CHECK RTD'

- This alarm signals when the RTD for the side hot knife is disconnected or malfunctioning. The side knife is the knife running across the seal conveyor and parallel to the side of the machine. Call a local Heat Seal distributor to properly diagnose and fix this issue.

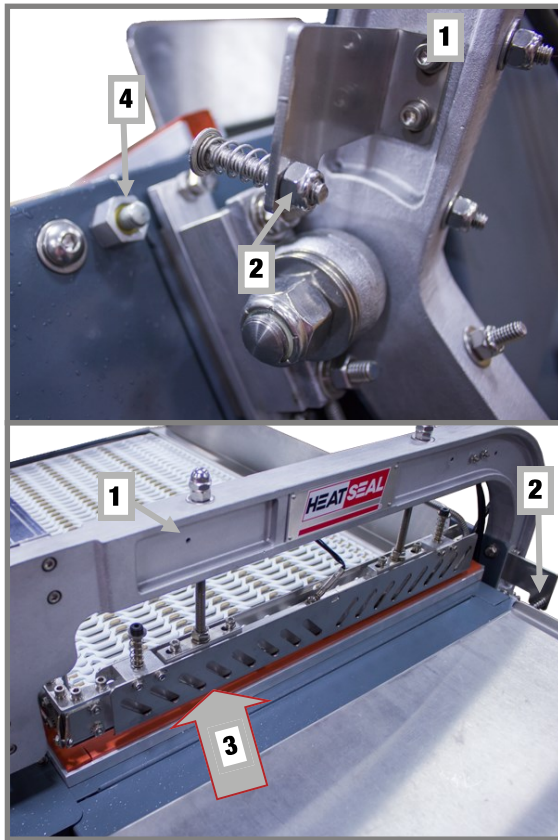


3. 'MACHINE ELEMENT TEMPERATURE OUT OF SPEC, PLEASE WAIT'

- This alarm will signal when either the front knife, side knife, or tunnel temperatures are out of spec. 'OUT OF SPEC' refers to the temperature being more than 10-15 ° F above or below the set point. Press 'ESC' on the RS-5 Plus digital controller to diagnose whether the front knife, side knife, or tunnel temperature is causing the alarm. Then, call a local Heat Seal distributor to properly diagnose and fix this issue.

SYSTEM OPERATION

- Due to the various types and gauges of shrink films, the sealing temperature control will require adjustment to obtain the optimum setting for the film being sealed. Always use the minimum setting that will provide a satisfactory seal to achieve maximum heat knife life and minimize replacement of the sealing pads.



ADJUSTING THE SEALING CYCLE

Located at the back of the sealing arm (1) is an adjustment screw type actuator (2) which starts the sealing cycle as the sealing arm is brought into position. The seal cycle must start when the arm is approximately 1/8" above the seal pad (3). This is factory adjusted, however, if adjustment is required, use the following steps as a guide:

- Turn the machine off.
- Bring the arm slowly toward the seal position, the switch (4) will click when the cycle begins. If the arm is too high (over 1/8"), adjust screw away from the switch.
- If the arm reaches the seal position without actuating the sealing cycle, adjust the screw down to actuate at 1/8" above the seal pad, being careful not to extend the screw so far down as to damage the switch. Adjustments should be made no more than one turn of the screw at a time.

ADJUSTING THE TUNNEL TEMPERATURE

As with the L Bar sealer, the various types and gauges of film will require some experimenting with the temperature setting of the shrink tunnel and the conveyor speed to obtain the desired shrink. Because some time is required for the tunnel chamber to adjust to a temperature setting change, it is recommended that the conveyor speed adjustment be used to change the time exposure of the package to the available heat for shrinking. If after achieving the desired shrink of the package, the conveyor is running too slow for required production, increase the temperature setting on the tunnel. When the tunnel chamber has stabilized, increase the conveyor speed. It is recommended for the most economical operation, that the tunnel temperature be maintained at the lowest setting compatible with the shrink film and the rate of production.

WRAPPING THE PACKAGE

After threading the film from the film cradle and rack and over and under the package tray (1), seal the open end of the film with the L sealer (2) by placing open end on the seal conveyor and sealing open end, readying it to seal package.

SEALING THE PACKAGE

Place the package to be wrapped (3) on the tray inserting it between the centerfold film. Holding the product firmly with the right hand (4) and the corner of the film with the left (5), move onto conveyor.

Place package in the lower right corner near where the arms meet (6), allowing for sufficient film margin (about 2" each side) for an adequate shrink.

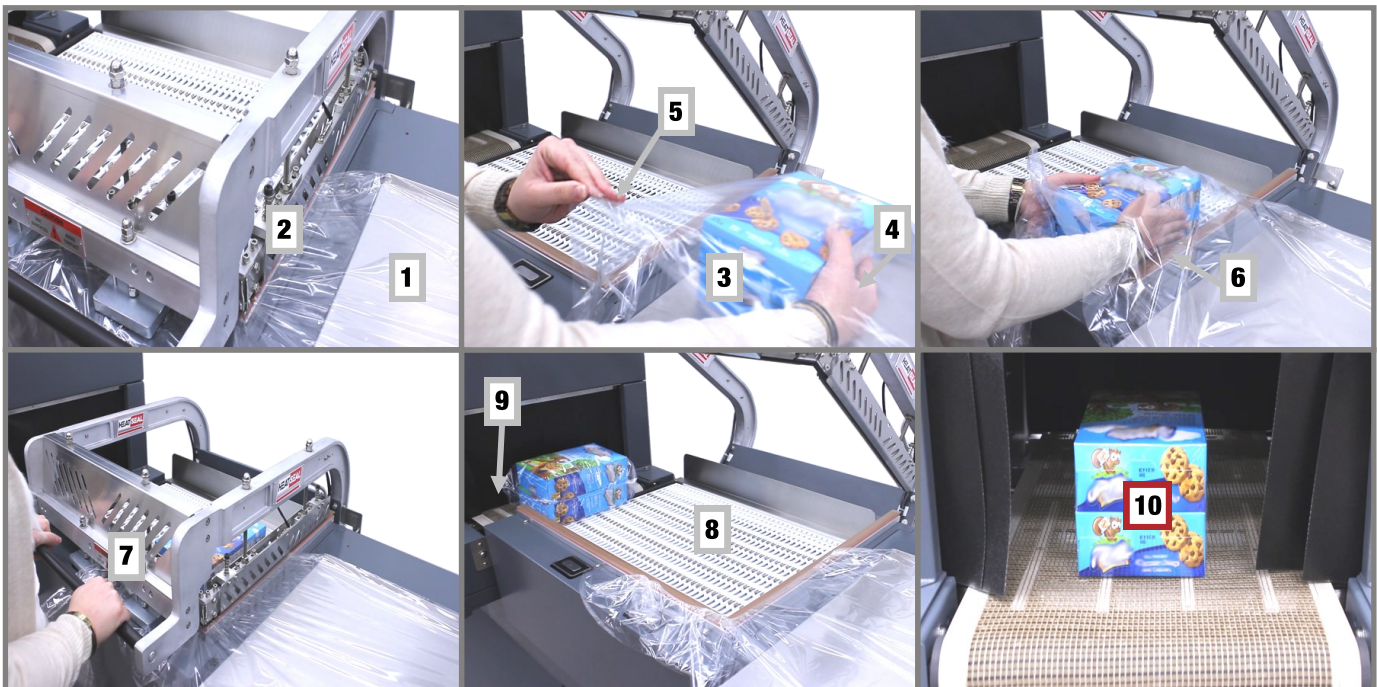
The arm is lowered to the sealing position which activates the sealing cycle. Magnets (7) will hold the arm in place during the cycle and release at the end of dwell cycle. The open sides of the film are sealed and is ready for the next package.

SHRINKING THE PACKAGE

The sealed package in loose film is moved out of the seal area by the seal conveyor (8) onto the tunnel conveyor belt (9). The package is conveyed through the tunnel chamber and recirculating, heated air shrinks the film creating a clear, tight package (10).

Once the first package has been wrapped, sealed and shrunk, check the package for any imperfections such as dog ears, broken seals, angel hairs and the like. These and other problems can be corrected by following the troubleshooting instructions at the end of this manual.

These procedures will help to achieve a clean and attractive seal and keep production at a maximum standard.



POWERED FILM UNWIND & INVERTER

SYSTEM OPERATION

- Due to the various types and gauges of shrink films, the sealing temperature control will require adjustment to obtain the optimum setting for the film being sealed. Always use the minimum setting that will provide a satisfactory seal to achieve maximum heat knife life and minimize replacement of the sealing pads.



ADJUSTING THE SEALING CYCLE

ADJUSTING THE TUNNEL TEMPERATURE

As with the L Bar sealer, the various types and gauges of film will require some experimenting with the temperature setting of the shrink tunnel and the conveyor speed to obtain the desired shrink. Because some time is required for the tunnel chamber to adjust to a temperature setting change, it is recommended that the conveyor speed adjustment be used to change the time exposure of the package to the available heat for shrinking. If after achieving the desired shrink of the package, the conveyor is running too slow for required production, increase the temperature setting on the tunnel. When the tunnel chamber has stabilized, increase the conveyor speed. It is recommended for the most economical operation, that the tunnel temperature be maintained at the lowest setting compatible with the shrink film and the rate of production.

OPERATING & SHRINK PROCEDURE



POWERFILM UNWIND & INVERTER

WRAPPING THE PACKAGE

SEALING THE PACKAGE

SHRINKING THE PACKAGE



RECOMMENDED CLEANING

L BAR SEALER

| | |
|---------------|---|
| HOT KNIFE | Clean with soft dry cloth only. Any abrasives will permanently damage the hot knife. |
| SEALING PADS | Clean daily. Wipe clean with a cloth. Use a light duty cleaner if film buildup occurs. Replace the Teflon tape as needed. |
| PRODUCT TRAY | Wipe down daily. |
| SEAL CONVEYOR | Clean periodically. Remove to clean underneath. |

CHECKING THE SEAL PADS

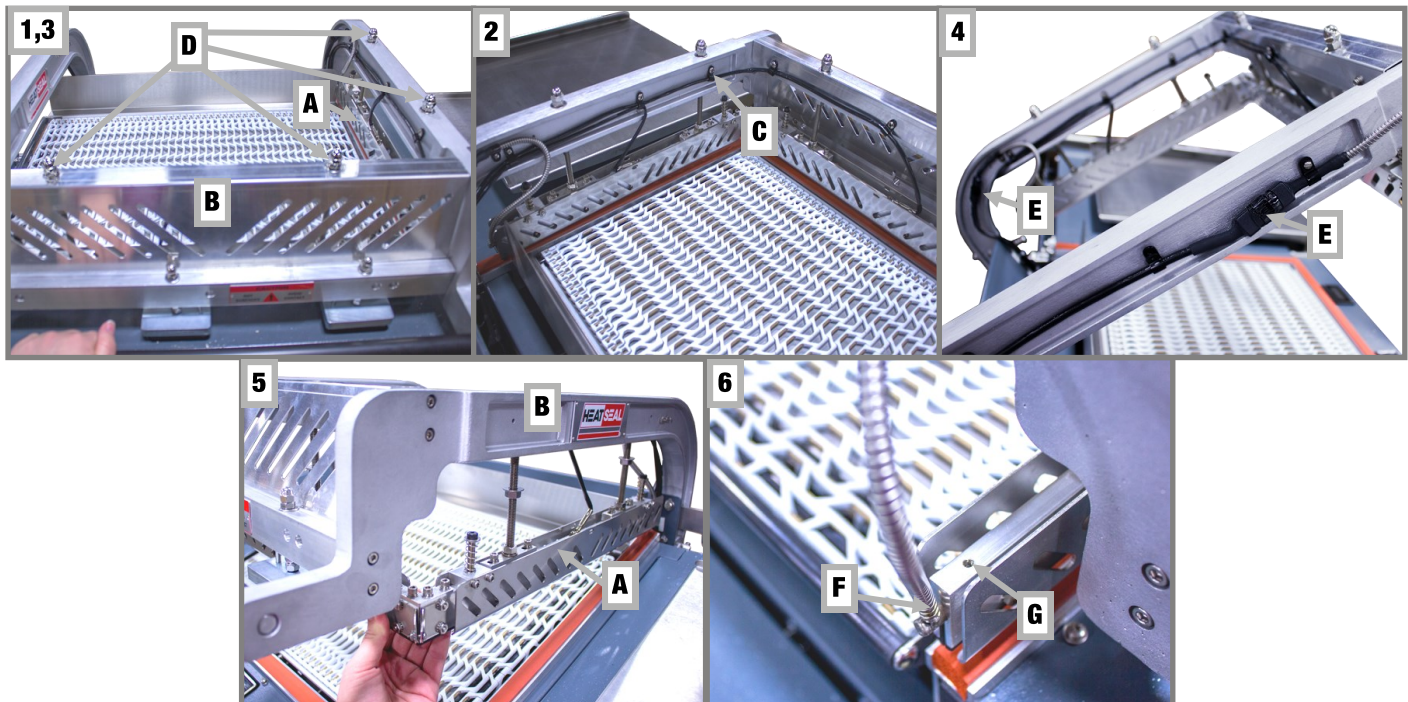
- The L Sealer seal pad will show wear from constant use and will need replaced when problems occur or it no longer provides a constant seal for your packages. See your Heat Seal Price List for replacement part information.

SERVICING THE HEATING ELEMENTS FOR HOT KNIFE SYSTEMS



MAKE SURE ALL POWER HAS BEEN SHUT OFF AND DISCONNECTED AND ELEMENTS HAVE COOLED BEFORE SERVICING THE ELEMENTS TO PREVENT PERSONAL INJURY TO THE SERVICE TECHNICIAN AND DAMAGE TO EQUIPMENT. ONLY QUALIFIED SERVICE TECHS SHOULD PERFORM THIS SERVICING.

1. When replacing an old heater rod with a new heater rod assembly, the seal bars/film clamp assembly (A) must be removed from the seal arm (B).
2. Remove the flat head screws for the wire fasteners (C).
3. Remove the four 9/16 acorn nuts (D) and 1/2 nuts from the top of the seal arm assembly (B).
4. Unplug the heater element cord (E) for the heater rod being replaced.
5. Slide the seal bars/film clamp assembly (A) out of the seal arm (B).
6. To remove the element (F) from the seal bar, loosen the set screw (G) and slide out the element.
7. Reassemble in reverse order above.
8. Restart machine and check seal head alignment.



TROUBLESHOOTING GUIDE



PROBLEM: **FILM SPLITS ALONG CENTER FOLD**
SOLUTION: CHECK FOR DAMAGE TO FILM ROLL.
MAKE SURE PRODUCT TRAY IS POSITIONED CORRECTLY.

PROBLEM: **FILM SPLITS AT HOLE PUNCH**
SOLUTION: CHECK HOLE PUNCH FOR PROPER ALIGNMENT.
CHECK THE CONDITION OF THE PUNCHED HOLES.

PROBLEM: **FILM SPLITS AT TOP OF PACKAGE**
SOLUTION: CHECK HOLE PUNCH FOR PROPER ALIGNMENT.
CHECK THE CONDITION OF THE PUNCHED HOLES.
MAKE SURE THE TUNNEL IS FUNCTIONING PROPERLY.
SPEED UP THE TUNNEL CONVEYOR.
DECREASE THE TUNNEL TEMPERATURE.
ADJUST THE AIR FLOW.

PROBLEM: **FILM SMOKES EXCESSIVELY**
SOLUTION: CHECK AND CLEAN WIRE AND WIRE INSULATION.
CHECK AND CLEAN KNIFE BLADE.
CHECK CONDITION OF SEALING PADS.
CHECK CONDITION OF NON-STICK TAPE.
CHECK FOR EVEN ARM AND MAGNET PRESSURE.
CHECK THE MINIMUM SEALING TEMPERATURES.
INCREASE THE SEALING TEMPERATURES.
DECREASE THE DWELL TIME.

PROBLEM: **FILM BUILDUP ON SEALING WIRE**
SOLUTION: CHECK AND CLEAN WIRE, WIRE INSULATION OR KNIFE BLADES.
CHECK THE CONDITION OF THE SEALING PADS.
CHECK THE NON-STICK TAPE.
CHECK FOR EVEN ARM AND MAGNET PRESSURE.
CHECK THE MINIMUM SEALING TEMPERATURES.
INCREASE THE SEALING TEMPERATURES.
CHANGE THE NON-STICK TAPE.

PROBLEM: **CROWS FEET**
SOLUTION: SLOW DOWN TUNNEL CONVEYOR.
INCREASE THE TUNNEL CHAMBER TEMPERATURE.
REDUCE AMOUNT OF FILM AROUND PACKAGE.

PROBLEM: **FISH EYES**
SOLUTION: MAKE SURE TUNNEL IS FUNCTIONING PROPERLY.
SLOW DOWN TUNNEL CONVEYOR.
USE LESS FILM AROUND THE PACKAGE.
INCREASE THE TUNNEL TEMPERATURE.

TROUBLESHOOTING GUIDE



PROBLEM: ANGEL HAIR

SOLUTION: CHECK AND CLEAN WIRE, WIRE INSULATION OR KNIFE BLADES.
CHECK CONDITION OF SEALING PADS AND NON-STICK TAPE.
CHECK FOR EVEN ARM AND MAGNET PRESSURE.
CHECK THE MINIMUM SEALING TEMPERATURES.
CHECK THE SEAL CYCLE IS COMPLETE.
MAKE SURE THE MAGNETS RELEASE AT THE SAME TIME.
CHECK THE CONDITION OF THE AIR RELEASE HOLES.
INCREASE THE SEALING TEMPERATURES.
CHANGE THE NON-STICK TAPE.

PROBLEM: DOG EARS

SOLUTION: USE LESS FILM AROUND THE PACKAGE.
SLOW DOWN THE TUNNEL CONVEYOR.
CHECK THE CONDITION OF THE AIR RELEASE HOLES.
INCREASE THE TUNNEL TEMPERATURE.

PROBLEM: BURN HOLES (HOT SPOTS)

SOLUTION: CHECK THE CONDITION OF THE AIR RELEASE HOLES.
SPEED UP THE TUNNEL CONVEYOR.
DECREASE THE TUNNEL CHAMBER TEMPERATURE.

PROBLEM: ERRATIC SHRINK

SOLUTION: MAKE SURE THE TUNNEL IS FUNCTIONING PROPERLY.
SLOW DOWN TUNNEL CONVEYOR.
ADJUST THE TUNNEL AIR FLOW.
INCREASE TUNNEL CHAMBER TEMPERATURE.

PROBLEM: SEVERE BALLOONING

SOLUTION: INCREASE THE TUNNEL TEMPERATURE
CHECK CONDITION OF AIR HOLES.

PROBLEM: OFF-CENTERED SEAL

SOLUTION: ADJUST THE PACKAGE PLATFORM.
LOOSEN THE KNOBS ON THE IMPULSE WIRE TENSION BLOCKS.

PROBLEM: FILM CAN'T SEPARATE, STATIC OR FILM COLLAPSES PACKAGE

SOLUTION: CALL YOUR FILM SUPPLIER.

- ANY OF THE PRECEDING TROUBLESHOOTING PROCEDURES DO NOT WORK, PLEASE CALL YOUR LOCAL HEAT SEAL DISTRIBUTOR SERVICE FOR FURTHER ASSISTANCE.

