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# Continuous Band Sealer Instruction Manual

**Distributed By:**

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# General Information

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Thank you for purchasing our HL-M810 band sealer.

This owner's manual contains information relating to your band sealer machine. The manual will provide you with basic information concerning both operation and maintenance of your new machine. Please read it carefully as failure to do so may result in bodily injury and/or damage to the equipment.

Please fill in the information below. You will find the information on the machine identification plate. You will need this information when ordering replacement parts or making technical inquiries.

No part of this manual may be duplicated, reproduced, stored in a retrieval system, translated, transcribed, or transmitted in any form without the express prior written permission of Sealer Sales, Inc.

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## HL-M810 EQUIPMENT INFORMATION

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❖ Model #

❖ Serial #

❖ Purchase Date:

❖ Reference # (found on packing slip)

❖ Owner:

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# Safety Instructions

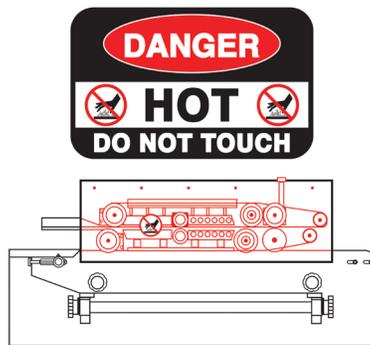
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**WARNING!** *Below are general safety precautions and warnings that should be understood prior to setting up or operating your equipment. Read and fully understand all instructions and warnings prior to using this unit. Your safety is most important! Failure to comply with procedures may result in serious injury or property damage. Remember: Your personal safety is your responsibility.*

Unsafe practices or unauthorized modifications could result in accidents or property damage. Failure to follow these safety rules and take necessary precautions can result in serious injury as well as damage to equipment.

- ❖ Never operate or service your band sealer until you have read this manual completely and understand it fully.
- ❖ Plug the band sealer into a standard 120 Volt, 60Hz wall outlet or surge protector. We highly suggest using a surge protector. Some special-order units are 220 Volt, 50Hz. Make adjustments as necessary.
- ❖ Do not use the band sealer if the power cord, plug or any other parts are damaged. Be sure not to allow the power cord to drape into your work area. Check that all parts are operating properly and perform the intended functions. Check for all other conditions that may affect the operation.
- ❖ Reduce risk of unintentional starting. Make sure the power switch is in the "OFF" position before attaching to the power source.
- ❖ Always disconnect sealer from power source before servicing, changing accessories or cleaning the unit.
- ❖ To provide protection against the risk of electrical shock, the power connection must be properly grounded at all times.
- ❖ Do not leave the sealer unattended when in use. Disconnect the sealer from the power source before leaving the work area.
- ❖ Band sealer is used solely for sealing thermoplastic materials. Using the machine for any other purpose can cause damage to the machine and operator.
- ❖ Always operate machine on a flat stable surface.
- ❖ While operating machinery, wear close-fitting clothing and tie back long hair to prevent any external items from getting caught in the machine. Do not wear jewelry when operating the band sealer.



- ❖ While machine is in operation do not touch the heating and/or cooling blocks. Blocks are extremely hot and may burn your hands.



- ❖ While machine is operating, do not place fingers, tools, or other foreign objects on or into the machine. Do not touch any moving parts while machine is operating. Fingers may get caught in between the gears / pinch points and cause significant injury.
- ❖ Thermoplastic bags and material are hand fed into the machine. Place bag on the guide and carefully feed the bag through the band sealer. Fingers may be placed on the guide but do not allow fingers to touch any of the moving parts on the band sealer.
- ❖ Use emergency stop to turn off machine should material/bags get jammed into the machine. Carefully pull material out of the band sealer. Do NOT use fingers to touch any part of the machine.
- ❖ The band sealer is not water resistant or water proof. Spraying down the machine will damage machine or cause electrical shock. Do not submerge the band sealer into water or liquid.
- ❖ Do not operate band sealer in a corrosive or humid environment. This machine is intended to be operated at room temperature and not for use above 86°F (30°C) or under 41°F (5°C).
- ❖ Always keep the machine clean, lubricated and in good working condition. Follow any maintenance and lubrication procedures outlined in this manual. Make sure unit is disconnected from power source before cleaning.
- ❖ NEVER use any accessories or parts from other manufacturers. Machine should not be altered or modified using parts that are not genuine authorized parts. Doing so will VOID YOUR WARRANTY.
- ❖ Never leave the band sealer unattended. Be safe, disconnect the band sealer from power source before leaving work area.
- ❖ Close supervision is necessary when any machine is near children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge. This sealer is NOT to be used by children or by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge.
- ❖ Do NOT use the band sealer outdoors.
- ❖ Do NOT use the band sealer while under the influence of drugs, medications or alcohol.

**SAVE THESE INSTRUCTIONS - REFER TO THEM OFTEN AND USE THEM TO INSTRUCT OTHERS.**

# Introduction

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HL-M810 is equipped with an electronic temperature controller and variable speed conveyor to seal all types of thermoplastic materials (PP, PE, stand up pouches, gusseted bags, moisture barrier bags, etc.). Seals are created using PTFE bands which maintain high seal quality and produce consistently strong, clean seals on all heat sealable bags. Because bags are placed on a conveyor system, the width of the bag does not matter. These versatile machines offer several adjustments which allow them to be used for a wide range of applications. These machines are used extensively in the food, medical, chemical, cosmetic, and electronic industries.

The HL-M810 band sealer adopts dry ink coding designed to print date and lot codes at the seal line. Ink dries instantly upon contact with packaging materials and produces clear and legible characters. Standard font size is 18PT which allows for two-line printing. An optional 10.5PT font size which allows for three-line printing can be purchased separately. Please ask your distributor for more information.

There are two configurations for the HL-M810 band sealer. The horizontal configuration (HL-M810I) is primarily used for sealing dry materials and when you can lay flat your pouch. The vertical configuration (HL-M810II) typically seals small solid products (ex: powders, grains, coffee) and liquids. In addition, sealing using the vertical configuration also works best with stand-up pouches.

## Features of the HL-M810 Band Sealer

*Your band sealer is equipped with a wide range of standard features and capabilities.*

- ❖ Simple to use – minimal operator training
- ❖ Fast warm up time
- ❖ Unit feeds left to right; Optional right to left feed configuration available
- ❖ Rust inhibiting stainless steel construction
- ❖ Equipped with bag entry guide for easy bag feeding and straight seals
- ❖ Control panel includes industrial grade safety emergency stop switch
- ❖ 10-amp protection power surge breaker
- ❖ Equipped with photo sensor for optimal printing precision
- ❖ Dry ink coder for printing characters at the seal line
- ❖ Standard print size is 18PT with optional 10.5PT available; additional sizes and configurations available via special order
- ❖ Wide seal (8mm) to assure airtight seal; Optional 15mm wide seal band sealer available via special order
- ❖ PTFE sealing belts
- ❖ Extended forced-air cooling system with extra wide cooling bars and 6 heat transfer orifices
- ❖ One pair of brass sealing bars
- ❖ Sealing method – constant heat
- ❖ Adjustable 2-way pulley system for optimal stability and embossing clarity
- ❖ Knurled pressure rolls with variable pressure adjustment

- ❖ PID digital temperature controller 0-300°C (572°F) with dual alphanumeric displays (target & current temp)
- ❖ Motorized rubber conveyor with speed control
- ❖ Capable of speeds up to 472 inches/minute
- ❖ Optional stand for HL-M810I (horizontal only) available

## How Does the HL-M810 Work?

### Basic

#### Principles

HL-M810 is easy to use. To seal, adjust temperature and place bag on conveyor

HL-M810 is comprised of a stainless-steel frame, speed adjusting mechanism, sealing temperature control system and transmission system. Turning on the heat for the band sealer will cause a rapid rise in the temperature of the heating blocks. Required temperature and speed can be adjusted via the temperature controller and speed adjusting device. Plastic material to be sealed is placed on the guide and conveyor. Conveyor will then take the material between the two heating blocks to fuse the material together. Material will then pass through the cooling blocks to allow the material to congeal. Finally, a photoelectric sensor will direct the dry ink coder to print a clear and legible print at the seal line.

The motor drives the sealing belts, drive belts and conveyor simultaneously.

## Specifications

	HL-M810I (Horizontal)	HL-M810II (Vertical)
Power	110V/60Hz	
Motor Power	50W	
Sealing Speed	0-472 inches/minutes	
Sealing Width	8mm (Optional 15mm width available)	
Temperature Range	0-300°C (572°F)	
Conveyor Size	37" x 6"	
Max Conveyor Load	6.6-lbs	
Min/Max Height of Bag ( <i>Vertical Only</i> )	N/A	7-7/8" / 12"
Printing Heating Power	40 x 2 (W)	
Character Size	3x5x7mm / 18PT – 2 lines 2x3x7mm / 10.5PT – 3 lines (additional option available)	
Printing Colors	Black, Blue, Green, Red, White, Yellow	
Dimensions	37" x 16" x 14"	37" x 16" x 26"
Weight	85-lbs	95-lbs

# Getting to Know your Band Sealer

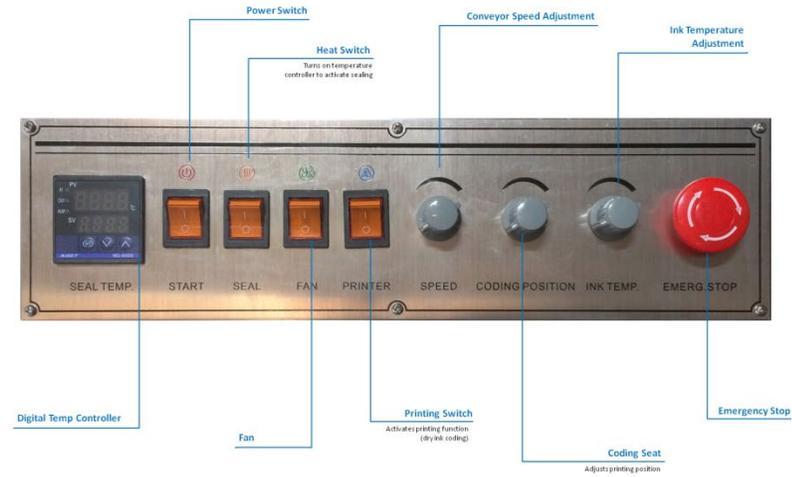
**HL-M810II - Vertical**



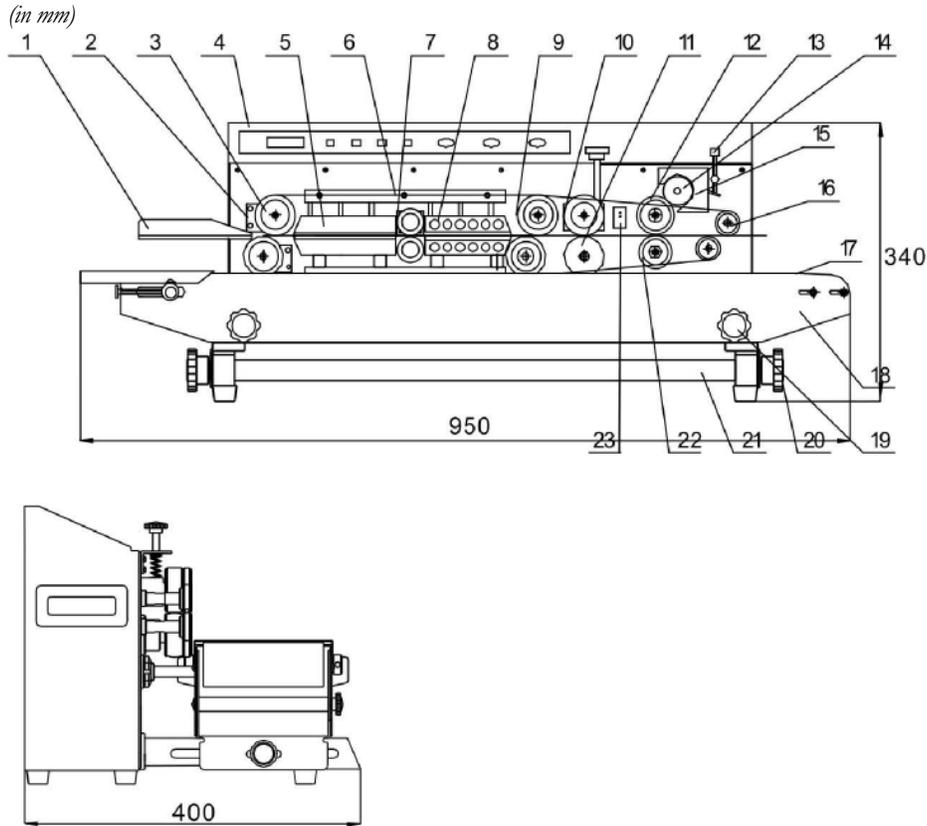
**HL-M810I - Horizontal**



**Control Panel**



## HL-M810 Diagram



**Figure 1. Horizontal Band Sealer** (1) Guide, (2) Driven Wheel Seat (Adjusting Block), (3) Driven Wheel, (4) Control Panel, (5) Heating Block, (6) Sealing Belt, (7) Pinch Roller, (8) Cooling Block, (9) Driving Wheel, (10) Embossing Roller, (11) Silicone Wheel, (12) Printing Wheel, (13) Ink Wheel Adjusting Device, (14) Ink Roller, (15) Ink Roller Heating Block, (16) Guide Wheel (Small), (17) Conveyor Belt, (18) Conveyor Table, (19) Fastening Knob for Elevating Table, (20) Transverse Tightening Knob for Conveyor Table, (21) Ledge, (22) Silicone Wheel, (23) Photoelectric Sensor

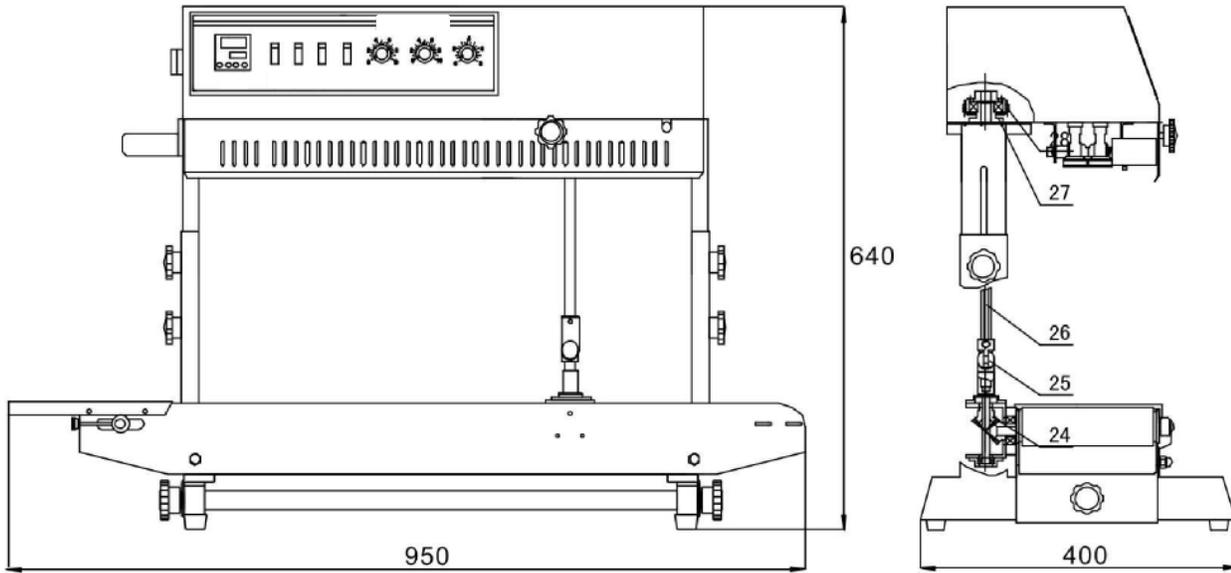


Figure 2. Vertical Band Sealer (24-26) Umbrella Gear w/ Long Shaft

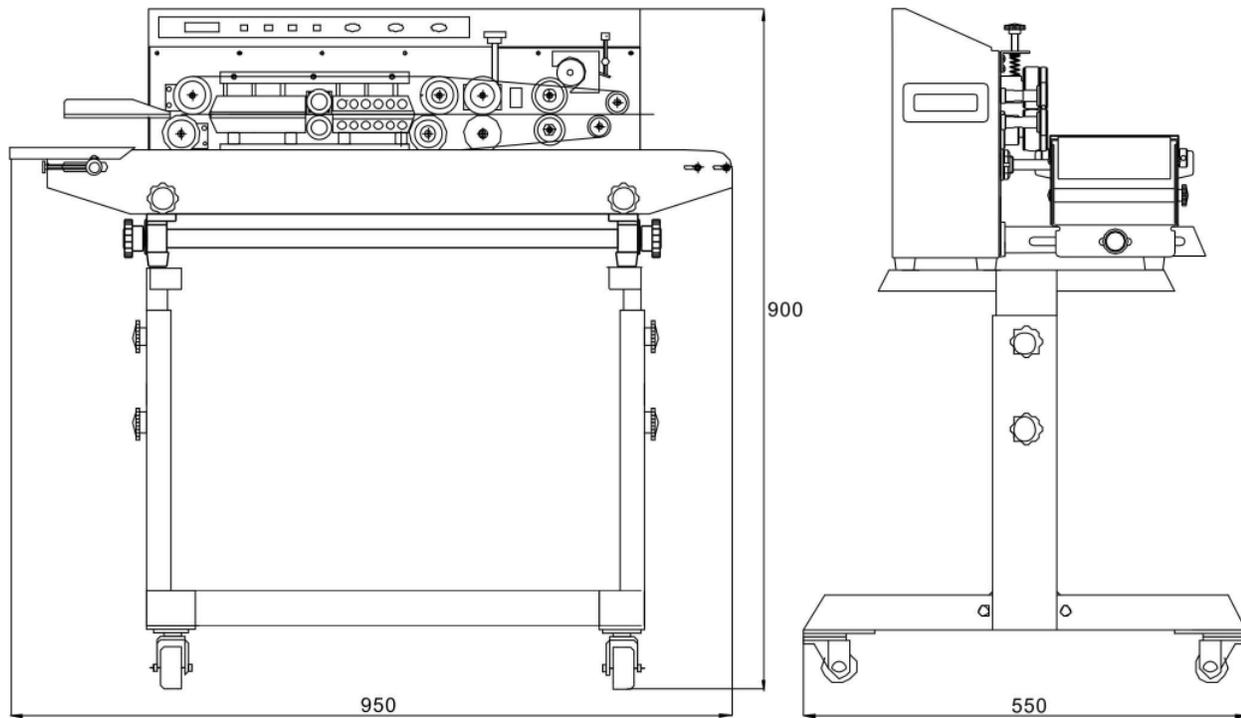


Figure 3. Horizontal Band Sealer with Stand. Optional stand available for HL-M810. Please ask your distributor.

# Warranty

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Sealer Sales ("Sealer") provides limited warranties for its non-consumable products subject to these Terms and Conditions. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state. Any warranties implied by law shall in no event extend beyond the duration of the express warranty offered, if any. Some States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some products may also be covered by a manufacturer's warranty that requires these items to be sent directly to the manufacturer for replacement or repair.

Sealer warrants its non-consumable products against defects in materials and workmanship under normal use for the following warranty periods:

- ❖ 180 (one hundred eighty) days for equipment, excluding portable sealers and heat guns
- ❖ 90 (ninety) days for portable sealers and heat guns
- ❖ 60 (sixty) days for non-consumable parts and repairs

The warranty period begins on the date of purchase by the initial purchaser.

Sealer does not warrant consumable parts or products, including, but not limited to, replacement kits, heating elements, PTFE insulators, silicone/compression rubber, and flexible packaging.

## Service Provided

Sealer has no obligation to repair, replace, or refund a product until the customer returns the product in question to Sealer. If a defect arises and a valid claim is received within the warranty period, Sealer will, at its option and to the extent permitted by law either: (1) repair the hardware defect at no charge, using new or refurbished replacement parts; (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts; or (3) provide a refund. Sealer, to the extent permitted by law, shall have the sole discretion to determine which service option it will provide and is not obligated by the terms of this warranty to provide more than one service option.

## Exclusions

This Limited Warranty only applies to products purchased directly from Sealer. Sealer does not warrant that the operation of the products will be uninterrupted or error free. Sealer is not responsible for damage arising from failure to following instructions related to the use of the products.

The Limited Warranty does not apply to: (a) damage caused by use with products not approved by Sealer; (b) damaged caused by accident, abuse, misuse, improper storage, theft, vandalism, natural acts of God, or other external causes; (c) damage caused by operating the product outside of its permitted or intended uses; (d) damaged caused by service performed by anyone other than Sealer or an authorized representative of Sealer, (e) damaged caused by improper maintenance or lack of maintenance; (f) damage or loss in functionality caused by modification or alteration of any parts without Sealer's permission; (g) consumable parts; (h) cosmetic damage; or (i) ordinary wear and tear.

Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product

## **Limitation of Liability**

THE MAXIMUM LIABILITY OF SEALER UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, SEALER IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY. THIS LIMITED WARRANTY GIVES THE CUSTOMER SPECIFIC LEGAL RIGHTS. THE CUSTOMER MAY ALSO HAVE RIGHTS WHICH VARY FROM STATE TO STATE. IN SOME STATES, CERTAIN DISCLAIMERS AND LIMITATIONS MAY NOT APPLY TO YOU. TO THE EXTENT THIS LIMITED WARRANTY IS INCONSISTENT WITH LOCAL LAW THIS STATEMENT SHALL BE MODIFIED TO BE CONSISTENT WITH SUCH LOCAL LAW. If any term or condition of this warranty is held to be illegal, unenforceable or against public policy, the legality or enforceability of the remaining terms shall not be affected or impaired.

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IF ANY PRODUCT TO WHICH THIS LIMITED WARRANTY APPLIES IS A "CONSUMER PRODUCT" UNDER THE MAGNUSON-MOSS WARRANTY ACT (15 U.S.C.A. §2301, ET SEQ.) OR OTHER APPLICABLE LAW, THE FOREGOING DISCLAIMER OF IMPLIED WARRANTIES SHALL NOT APPLY TO YOU, AND ALL IMPLIED WARRANTIES ON THIS PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR THE PARTICULAR PURPOSE, SHALL APPLY AS PROVIDED UNDER APPLICABLE LAW.

## Obtaining Warranty Service

If you believe the product you purchased is not functioning properly due to a defect covered by this warranty, please contact Sealer directly via telephone, U.S. mail, or e-mail using the contact information listed on our website. A Sealer representative will help determine whether your product requires service and, if it does, will inform you how service will be provided. You must assist in the diagnosis process by providing any information or requested documentation required by Sealer.

Sealer may (a) provide warranty at its headquarters location, (b) request that you ship the product to its headquarters for service, or (c) ship you new or refurbished replacement products or parts to enable you to complete repairs on your own. Sealer does not provide on-site warranty service for any products or parts. If a product is shipped to Sealer for warranty repair, the customer must pay for shipping costs. If it is decided that a product should be returned directly to Sealer, the product should be properly packed, preferably in the original packaging, for shipping.

When a product or part is exchanged or replaced, any replaced item becomes the property of Sealer.

Service options and service times may vary depending on the complexity of the product, the nature of the defect, and/or the availability of replacement parts. Sealer may require proof of purchase details before providing warranty service.

# Operation

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## Important

Read this manual carefully, and make it available to everyone connected with the supervision, maintenance, or operation of this machine. Additional copies are available at your request. Be very careful when operating, adjusting, or servicing this equipment. If in doubt, stop and obtain qualified help before proceeding.

## Installation

Place the band sealer in the desired location with the required electrical power source available. (See power requirements.) Make certain that proper electrical wiring is provided to guard against low voltage. If the voltage is too low, the equipment will not function properly.

Finding the proper location is a most important function of the initial set-up. One must take several factors into consideration:

- ❖ Adequate power source
  - ❖ Relationship to source of product
  - ❖ Relationship to band sealer
  - ❖ Relationship to any conveyors necessary to transport finished product
  - ❖ Convenience of operator
1. Your new HL-M810 band sealer comes packaged in a heavy duty carton to protect it. If your machine does not arrive in this condition, write on shipping paperwork that outside of box is damaged. Concealed damage may have occurred.
  2. Three foam pieces hold and protect the band sealer. Remove the foam pieces.

## HL-M810 INSTRUCTION MANUAL



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3. Use the handles when removing the machine from the box. DO NOT hold the conveyor to move the machine.



4. Carefully check the contents against the spare parts list (see Spare Parts List on page 48). Once you have determined that all of the parts have arrived in good order set up can proceed. If any parts are missing or appear to be damaged, please notify your distributor or Sealer Sales AND your freight company at once.

## Initial Set-up

If you have not already done so, please unpack your machine, carefully checking the contents against the spare parts list (see Spare Parts List on page **Error! Bookmark not defined.**). Once you have determined that all of the parts have arrived in good order set up can proceed. If any parts are missing or appear to be damaged, please notify your distributor or Sealer Sales AND your freight company at once.

## Initial Set-up for Vertical Units Only

Please note: Initial set up is for vertical configuration (HL-M810II) band sealers only.

*Please disregard initial set up instructions if you purchased the HL-M810 horizontal configuration band sealer.*

To prevent damage to the band sealer, the umbrella gear base with long shaft is shipped disconnected. Please follow these simple steps to connect the long shaft to the umbrella gear base.

1. Open the panel found at the top of the band sealer.
2. Insert the long shaft through the gear in the band sealer housing, making sure the groove on the shaft and gears line up.
3. Insert the shaft in the umbrella gear base.



**Figure 4.** Ensure the groove in the long shaft matches that in the gear



**Figure 5.** Ensure the groove in the long shaft matches that in the gear

4. Using a screwdriver, screw the long shaft into the Umbrella Gear Base



**Figure 6.** Screw the long shaft to the umbrella gear base.

## Operation Set-up

1. Our machines are equipped with a three-prong grounded plug. Make sure the plug is well-connected in the socket to ensure safe operation.
  - a. Check that the power supply voltage is consistent with the voltage of the machine
  - b. Ensure the machine is properly connected to a grounded receptacle. (grounding line is yellow green double color line)
  - c. Make sure there is nothing impeding movement of the cable. If the cable appears damaged, replace immediately

	<p><b>WARNING!</b></p> <p>Ensure that the socket has protective grounding wires</p> <p>Please check the voltage by referring to machine nameplate</p> <p>Please comply with safety guidelines</p>
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2. First time operation. Allow the machine to pre-heat by running at a low temperature for a few minutes. This would apply if the machine has not been in operation for a long time. The machine can sometimes be damp from storage or shipment and running at a low temperature will dry out any residual moisture.
3. Make sure the circuit breaker is in the “ON” position. (Levers pointing up)
4. Adjust the conveyor position forwards or backwards. Refer to **Figure 7** for knob adjustments. For vertical configuration only, adjust the height of the band sealer appropriate for your bag to be sealed using the two flower knobs found on right and left support bars.

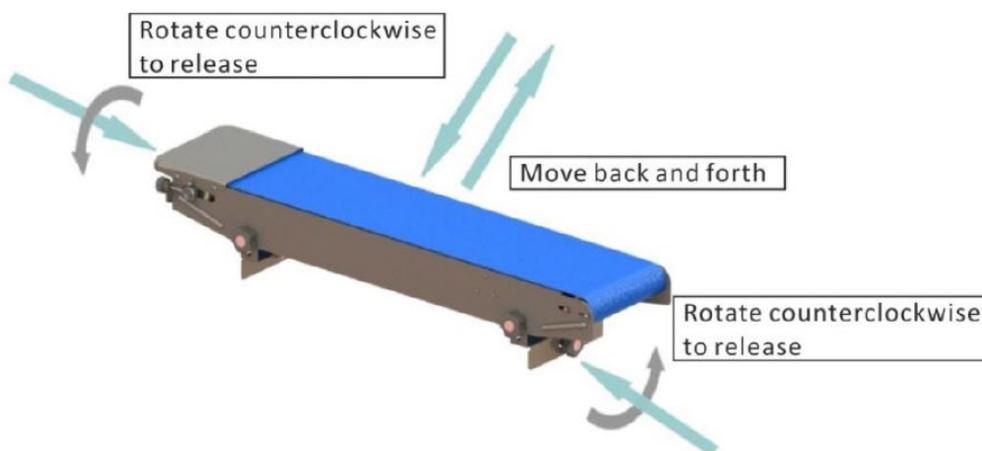
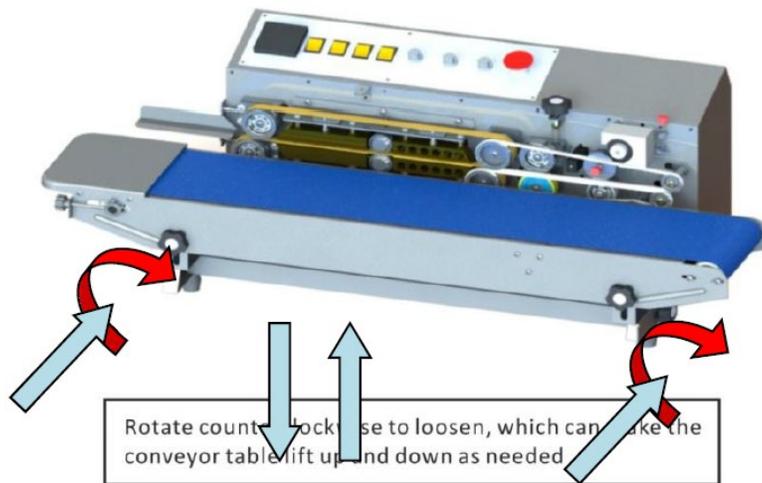


Figure 7. Adjusting conveyor forward or backwards

- To adjust the conveyor height (horizontal configuration), adjust the height by the adjusting knob in front of the conveyor table and tighten after adjustment. Refer **Figure 8** to for knob adjustments. For vertical configuration only, adjust the height of the band sealer appropriate for your bag to be sealed.



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**Figure 8.** Adjusting the conveyor height of horizontal configuration

- Adjust the guide to adjust seal width and position of seal line on your material.

## Operation



Figure 9. Control Panel of HL-M810

1. Switch the circuit breaker to the "On" position.
2. Turn Power, Heater, and Fan switches to the "On" position. Belts and conveyor will begin to move simultaneously.
3. Emergency Stop – Press the emergency stop to turn off the machine. In order to restart the machine, you must release the emergency stop by turning the knob 120° clockwise.
4. Adjust the conveyor speed.
5. Adjust the temperature controller to the temperature desired to seal your material. Temperature settings will vary based on bag material and thickness. If you are unsure what temperature setting to use, we recommend starting at a low temperature (150°C) and gradually increase to a temperature that will seal your material. We highly discourage sealing material at a temperature above 200°C. **Please note: Temperature will be in Celsius, not Fahrenheit.** The temperature controller cannot be displayed in Fahrenheit.

The PV value (red light) is the actual temperature and the SV value (green light) is the desired temperature setting.

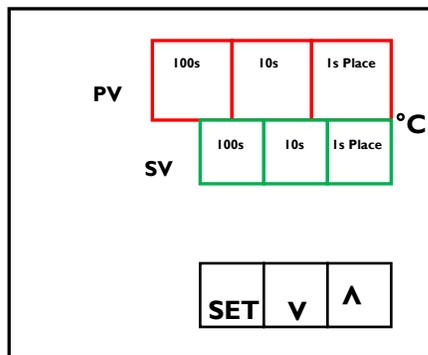


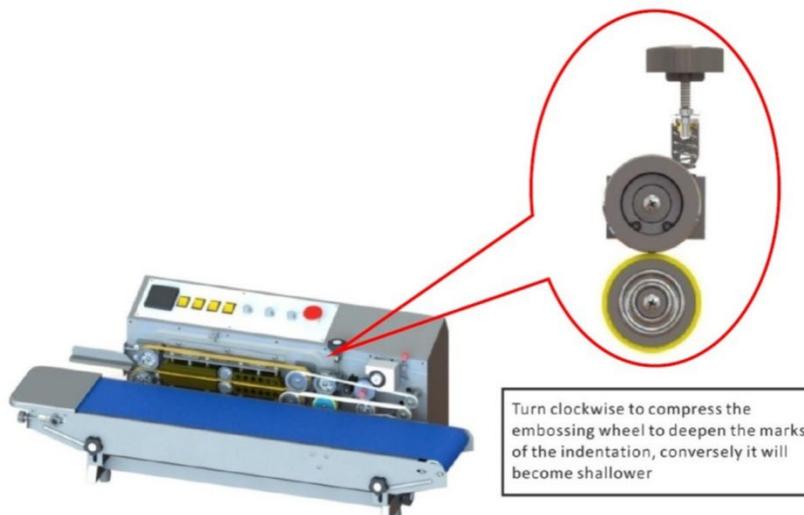
Figure 10. HL-M810 Temperature Controller

- a. To set the temperature, press the SET button.
- b. Adjust the temperature value using the up and down arrows.
- c. Press the SET button to save the temperature settings. Your desired temperature settings should appear in green in the SV Value.
- d. Wait until the PV temperature matches the SV temperature which should take approximately 5-10 minutes.
- e. **Please note:** Temperature will be in **Celsius**, not Fahrenheit. Do not attempt to make additional adjustments to the temperature controller besides the temperature. The temperature controller CANNOT be displayed in Fahrenheit and is ALWAYS in Celsius. **Please do not set the temperature controller above 200°C.** Please contact your local distributor if you need assistance.



**WARNING!**  
When the machine is running, the temperature outside of the surface of the heating block can reach over 400°F. Even after cooling down the machine, the heating blocks will remain hot to touch.

6. Adjust the pressure knob on your band sealer depending on the thickness of your bag material.



7. Place material on the guide and allow the band sealer to pull your material through. Make sure your material is flat on the guide. While the material is moving through the band sealer, do not push or pull the material as this will cause irregular sealing.

 **WARNING!**  
When the machine is running, do not put your hands near any of the wheels and gears

8. If the sealing belt is running off the guide wheels, make adjustments to the screws that are found on the driven wheel seat

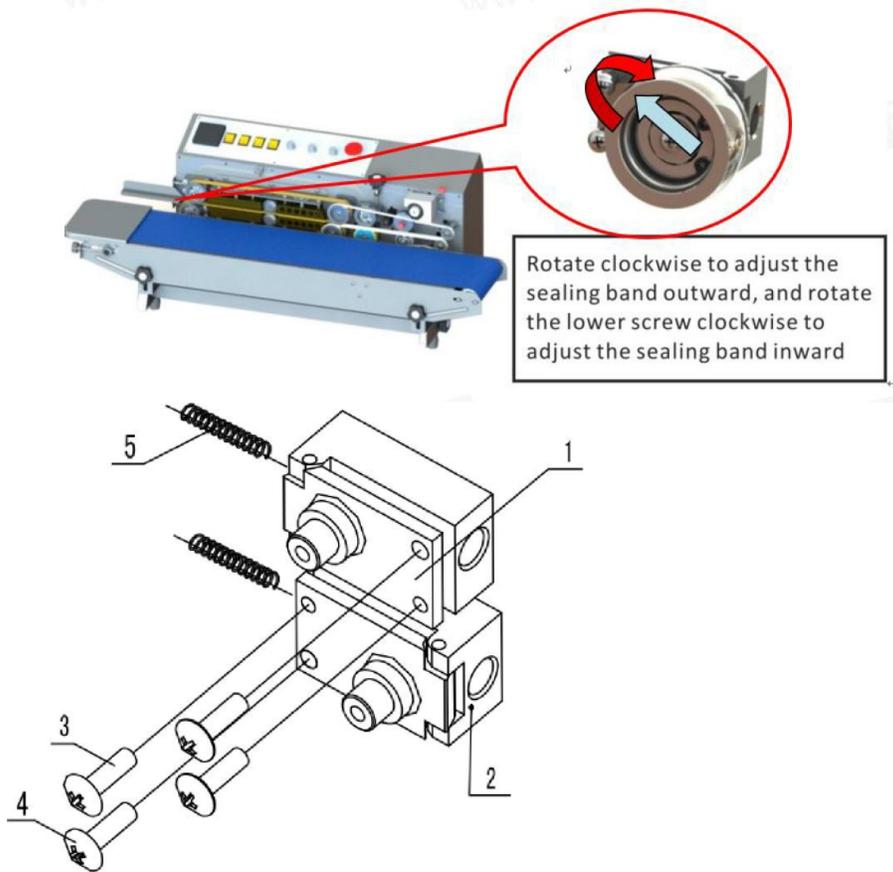


Figure 11. (1) Driven Wheel Seat (Adjusting Block), (2) Driven Wheel Seat (Adjusting Block), (3)/(4) Adjusting Screws, (5) Springs

9. Emergency Stop – Press the emergency stop to turn off the machine. In order to restart the machine, you must release the emergency stop by turning the knob 120° clockwise.
10. To shut down, turn off the heater switch and allow the temperature of the machine to drop before turning off the power and fan switches. *Following this shut down procedure will significantly prolong the life of machine and sealing belts.*

## Sealing Optimization

1. Sealing performance can be adjusted with the sealing temperature and sealing speed. The higher the speed the less exposure the material to heating blocks and therefore a higher temperature will be required to seal the material.
2. Try a variety of different sealing temperatures and conveyor speeds to get the optimal seal for your material.
3. Please note that unreasonable parameter settings may damage the machine or increase servicing needs.

	<p><b>WARNING! DAMAGE!</b></p> <p>Unreasonable parameter settings may damage the machine or increase servicing needs.</p>
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The default settings on the band sealer are adjusted so that it is suitable for most bags. See our material heat sealing temperature reference table below:

Material	Thickness (μ m)	Recommended Temp Settings (°C)	Heating Sealing Speed
LDPE	30 - 60	105 - 150	6 - 10
MDPE	40 - 120	115 - 120	7.2 - 10.2
HDPE	40 - 90	125 - 150	7.2 - 10.2
PP	40 - 60	135 - 160	7.2 - 10.2

## Printing Operation

**Scan QR Code for Video Demo**



HL-M810 is equipped with a dry ink coding feature capable of printing characters at the seal line. Ink dries instantly upon contact with packaging materials and produces clear and legible letters/numbers. Standard font size is 18PT which allows for two-line printing up to 20 characters per line. Optional print wheel which allows for 40 characters per line is available to be purchased separately. In addition, we also carry 10.5PT font size which allows for three-line printing can also be purchased separately. Ask your distributor for more details.



Figure 12. Standard font size - 18PT

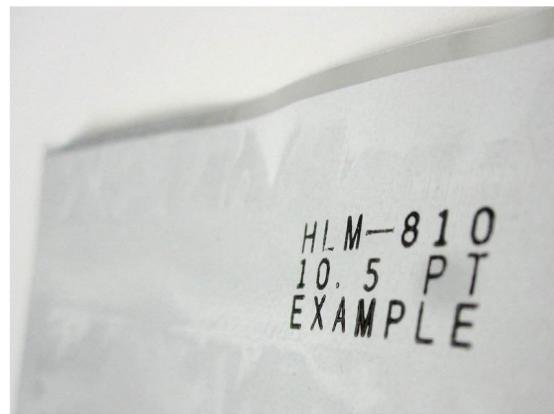


Figure 13. Optional 10.5PT font size available for purchase

1. **Removing Print Wheel.** To remove the printing wheel from the base, push the red handle in and turn clockwise until you feel the handle unlock. (See [Figure 14](#) and [Figure 15](#) for locked and unlocked positions). You may need to turn the wheel a few times until the red handle unlocks and pops out of its locked position.

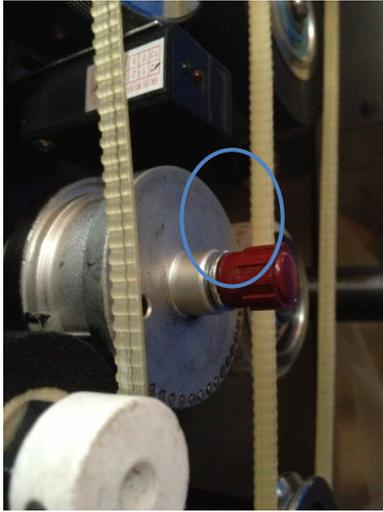


Figure 14. Locked Handle Position

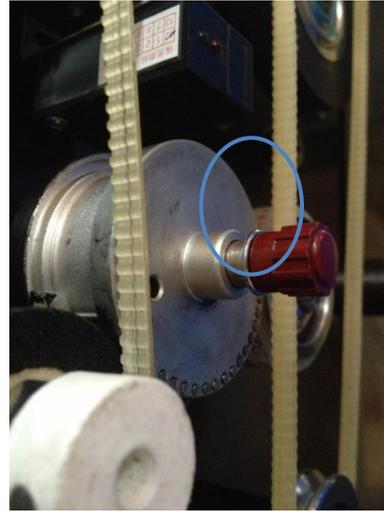


Figure 15. Unlocked Handle Position

- Installing Types/Characters on Print Wheel.** Place selected characters in the grooves of the printing wheel. Be sure to insert the characters from right to left to ensure actual imprint prints correctly on your packaging material. Once completed, insert the silicone pin at the top of the printing wheel to hold the characters in place.



Figure 16. Place characters from right to left.



Figure 17. Place silicone pin to lock characters in place.

- Installing the Print Wheel.** To insert the spring-loaded print wheel into the print wheel base, ensure that the pins on the printing wheel are aligned with the notches of the print wheel base. Gently insert the print wheel into the base. Lock the print wheel by pushing the red handle in until you feel the handle lock into place.



Figure 18. Ensure two holes and pins line up with the base

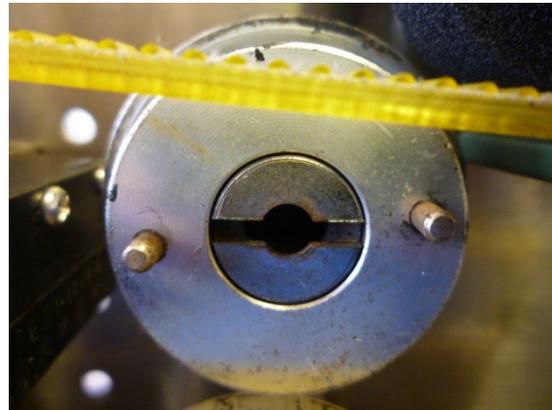


Figure 19. Ensure two holes and pins line up with the base

4. **Install Ink Roller into the Ink Roller Holder.** Remove the metal ring found on the ink roller holder using an allen wrench. Place the ink roller onto the ink roller holder and place the metal ring back on the ink roller holder to hold the ink roller in place. Please note that for 30mm wide ink roller, the metal ring will not be used.



Figure 20. Remove metal ring found on the ink roller holder



Figure 21. Ink roller installed on ink roller holder

5. **Insert Ink Roller in the Ink Wheel Heating Block.** When inserting the ink roller, ensure the ink roller lines up with the type on the printing wheel. If the ink roller is pushed in too far, the printing wheel will not print correctly. *Note: Do not allow the ink roller to heat continuously when machine is not in use as heating block may melt the ink roller.*

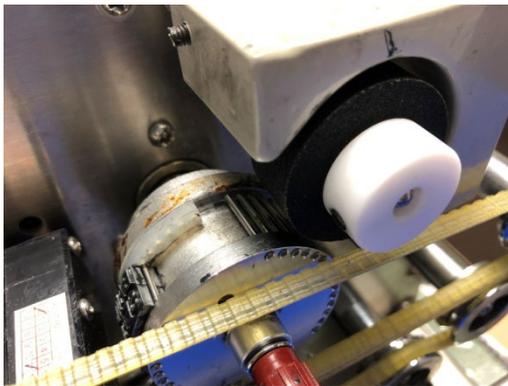


Figure 22. Correct Ink Roller Position

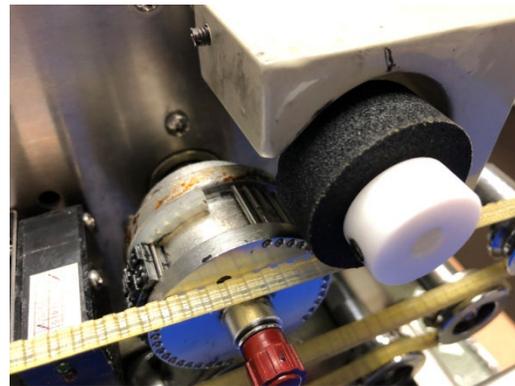


Figure 23. Incorrect Ink Roller Position

Test the ink roller position relative to the printing wheel. Place your finger under the photoelectric sensor (Figure 32, Item #19). The sensor light will turn green and allow the printing wheel to rotate.

6. **Adjusting Ink Wheel Adjusting Device.** As the print wheel rotates, check that the printing wheel makes contact with the ink roller. Make adjustments using the ink wheel adjusting device (Figure 24, Item #5) if necessary. Turning the adjusting screw clockwise will move the ink roller away

from the print wheel and turning the adjusting screw counterclockwise will move the ink roller closer to the print wheel.

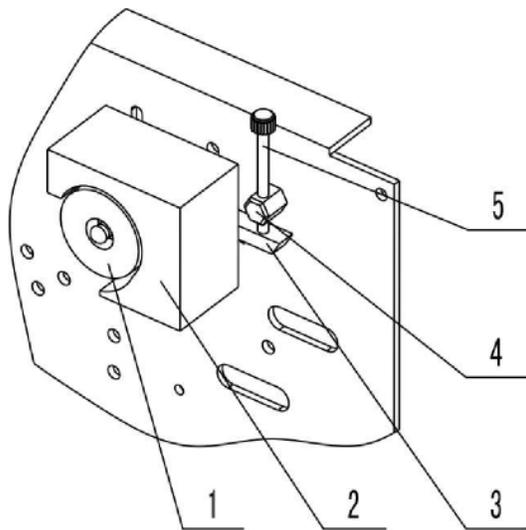


Figure 24. (1) Ink Roller, (2) Ink Roller Heating Block, (3) Swing Pole, (4) Adjusting Strut, (5) Ink Wheel Adjusting Device

7. **Make Adjustments Between Printing Wheel and Silicone Wheel.** The typesets/characters on the printwheel should only touch the silicone wheel during the printing process. The characters should not touch the silicone wheel at any other time. If the band sealer is used to seal relatively thicker materials, the screw (Figure 25, Item #4) should be loosened. Rotate the eccentric sleeve (Figure 25, Item #3) to ensure the characters/typesets slightly touch the silicone wheel's surface. Refasten the screw after making adjustments. If printing on thicker materials, please make the appropriate adjustments

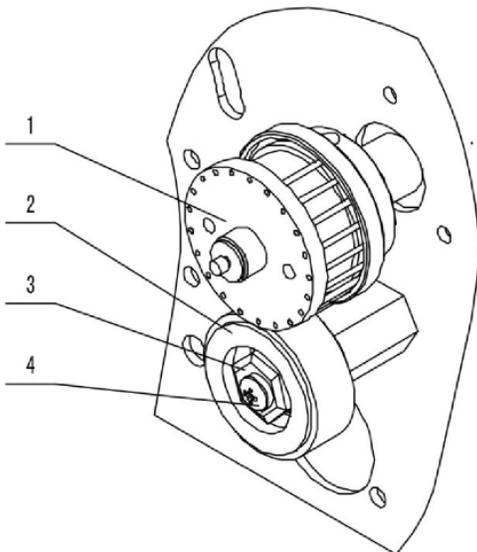


Figure 25. (1) Printing Wheel, (2) Silicone Wheel, (3) Eccentric Sleeve, (4) Screw

8. **Setting Printing Temperature.** We recommend setting the ink temperature on the higher end. Allow 5-10 minutes for the ink heating block and ink roller to reach the correct temperature. *Note: If band sealer is not in use right away, do not leave ink roller in the unit while temperature is on. This may result in the ink roller melting and producing messy print.*
9. **Adjusting the Printing Position.** The coding seat knob determines printing position on your material. For example, if you want to print on the left side of your bag, turn the coding seat to its lowest setting (or counterclockwise). If you want to print on the right side of the bag, turn the coding seat to a higher setting (or clockwise).

## Printing Optimization

1. Print quality will be determined by the degree of ink melting, distance between the ink roller and printing wheel and distance between the silicone wheel and printing wheel.
2. Over time, decrease the gap between the ink roller and printing wheel.
3. A newer ink roller will require a lower temperature vs. an older ink roller. Make adjustments to ink temperature as necessary.
4. Ensure there is adequate pressure on the silicone wheel (**Part #BS-57A**) by the printing wheel. We suggest using factory default settings before making any adjustments. Adjustments may be needed based on material thickness.
5. If the printing wheel rotates and there is no thermoplastic material running through the band sealer, excess ink will rub off on the silicone wheel. Clean the silicone wheel with a shop cloth and silicone spray to remove any excess ink.
6. *Remove the ink roller from unit until sealer is ready for use. If ink roller is left in the machine while not in use, this may result in melting of the ink roller and messy print. To clean, wipe down belts, silicone wheel, and other parts with silicone spray and cloth.*

# Maintenance

The following maintenance procedures should be followed to ensure the longevity of your HL-M810 band sealer. *Always disconnect sealer from power source before servicing, changing accessories or cleaning the unit.*

	<p><b>WARNING!</b> Disconnect the machine from power before any maintenance</p>
---	---

## Inspection and Cleaning

1. Inspect your machine daily.
2. Check if there is any foreign matter or dirt adhering to the band sealer.
3. To clean your band sealer, wipe down your sealer with silicone spray and a shop cloth. Do not apply silicone directly to your sealer. Definitely DO NOT wash down your machine with water.

## Sealing and Drive Belts

### Scan QR Code for Video Demo



1. Check and replace the belts as necessary. Both the sealing and drive belts are consumable items. Replace sealing belts when there are burn marks or if the belts become hard and brittle. Replace drive belts when the belts break or become badly cracked.
2. To change out the belts, make sure the machine is turned off.
3. Remove the safety cover.
4. Remove the two drive belts.
5. To remove the sealing belts, push on the adjustment blocks (**Figure 30, Item #30**) and the sealing belts should easily slip off.
6. Put new sealing and/or drive belts back on the machine. Test the machine, making adjustments as necessary.
7. Replace the safety cover.

## Maintenance Schedule

Refer to the below maintenance schedule for your band sealer.

Schedule	Maintenance
Daily	<ol style="list-style-type: none"> <li>1. Use a brush to remove any substance that is attached to the sealing or guide belts</li> <li>2. Use a shop cloth and silicone to clean the conveyor belt</li> </ol>
Monthly	<ol style="list-style-type: none"> <li>1. Check the condition of the sealing belt. Replace if needed.</li> <li>2. Check the condition of the drive belt. Replace if needed.</li> <li>3. Clean the motor carbon brush</li> </ol>
6 Months	<ol style="list-style-type: none"> <li>1. Check the condition of the motor brush. Replace if needed.</li> <li>2. Add lubricating grease to the gears.</li> </ol>
Yearly	<ol style="list-style-type: none"> <li>1. Check all above items</li> <li>2. Check the condition of the rubber wheel. Replace if needed.</li> <li>3. Check the temperature controller. If the set temperature is no reached within ten minutes, you should change the temperature controller.</li> <li>4. Check the electronic parts such as the emergency stop, buttons, potentiometer, and fan. If parts are not working properly, replace if needed.</li> <li>5. Check and add lubricating greas to the transmission parts including gears, shafts and joints. If there are any worn parts, replace as needed.</li> <li>6. Clean the turbocase and change the oil in it.</li> </ol>

## Turbocase Maintenance

1. Remove dust and clean motor at regular intervals. Avoid contact with alcohol, gasoline and benzene chemicals.
2. The turbocase should be oiled as needed with 50g 20# oil by:
  - a. Remove the back cover.
  - b. Locate the turbocase and unscrew the cap. Replenish any depleted gear oil with 50g 20# oil.
3. The motor brush (**Part #BS-29A**) is designed to be used 2,500 hours continuously. Replace carbon brush at regular intervals.

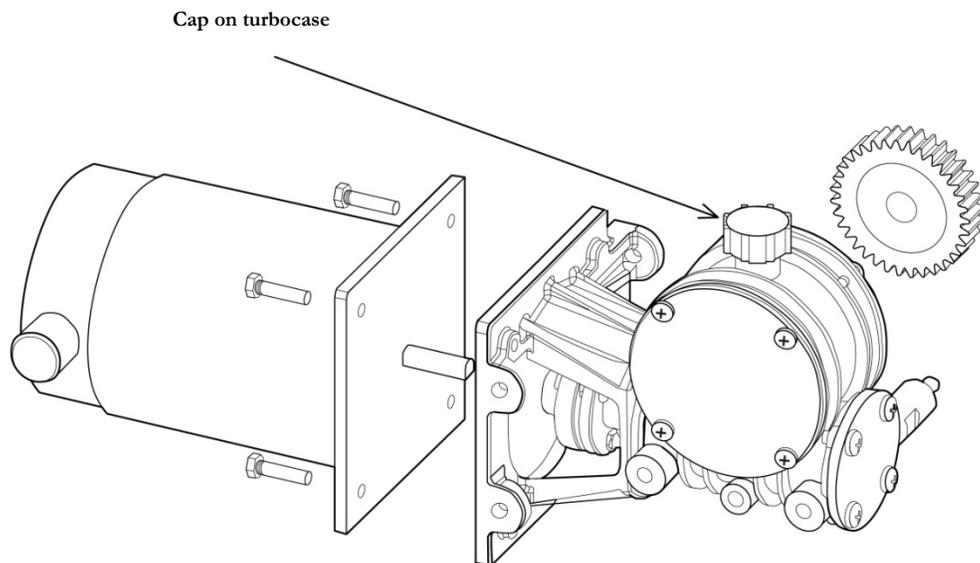


Figure 26. Turbocase cap

## Printing Maintenance

HL-M810 band sealers are equipped with an ink temperature potentiometer which is attached to a PC Board. This part controls the temperature that is transmitted to both the ink heating block as well as the printing wheel. The part is located behind the ink temperature knob. **(Figure 36, Item #3-3)** You should change the ink temperature potentiometer w/ PC Board when both ink heating block and printing wheel on your band sealer are not achieving optimal heat temperatures.

1. Turn off and unplug your band sealer.
2. Remove ink temperature knob from potentiometer and remove the washer that holds the ink temperature potentiometer on the panel.

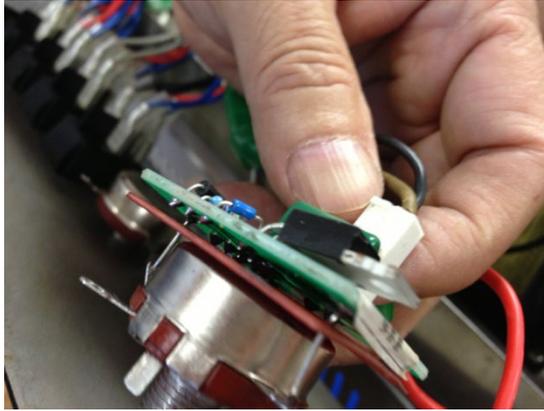


Figure 27. Remove Ink Temperature Knob



Figure 28. Remove Washer Holding Ink Temperature Potentiometer

3. Remove the band sealer display panel. There should be six screws to remove.
4. Unplug the ink temperature potentiometer and plug in a new ink temperature potentiometer. Make sure the part is plugged in properly and tight.



**Figure 29.** Unplug Ink Temperature Potentiometer w/ PC Board and Replace with a New Ink Temperature Potentiometer w/ PC Board

# Parts Diagram

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To order spare parts, please use diagram and part #s below:

**Figure 30** – Spare Parts Diagram Overview

**Figure 32** – Heating / Cooling Blocks

**Figure 34** – Conveyor Table

**Figure 36** – Sealer Body

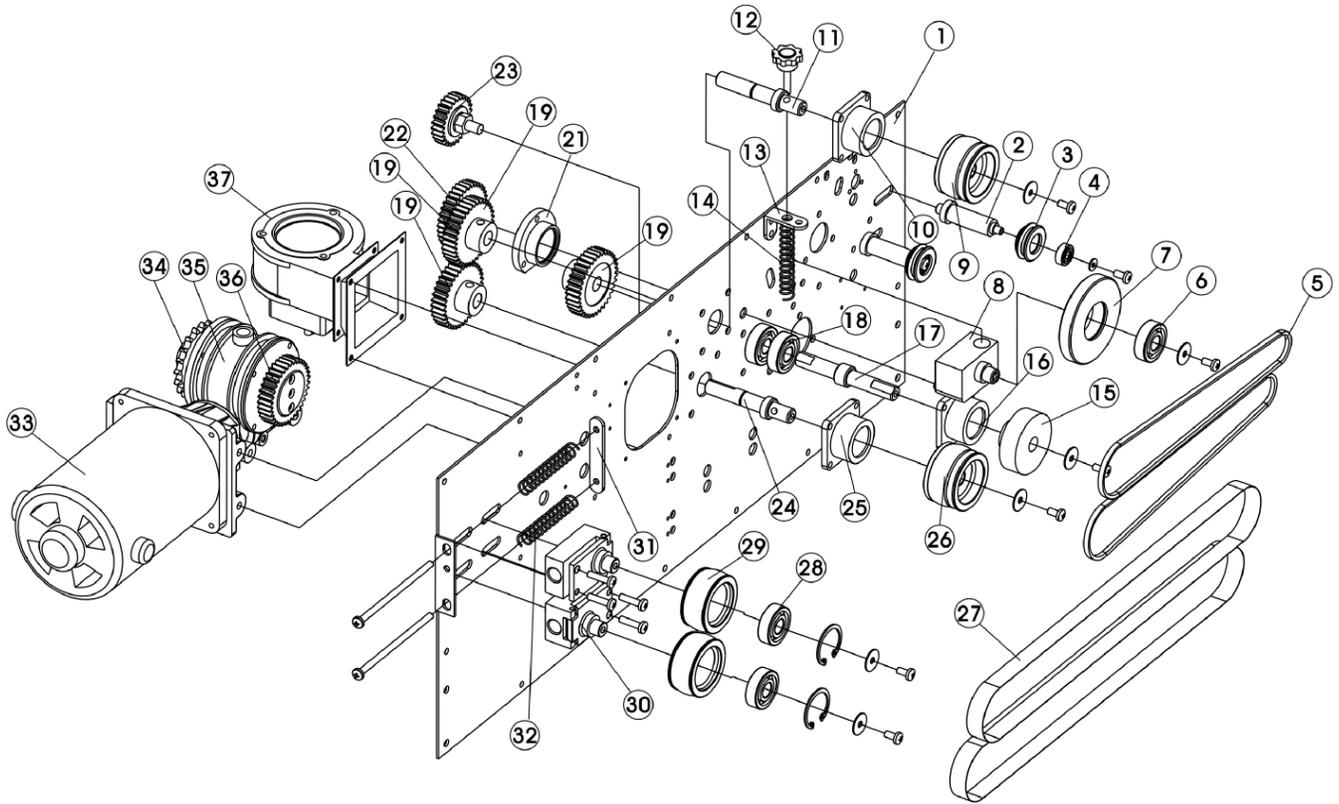


Figure 30. Spare Parts Diagram Overview

Figure 31. Spare Parts Diagram Overview

Item	Part #	Quantity	Description	Comments
1	HL-M810-84	1	bottom board	
2	HL-M810-44	1	feed opening	Horizontal only
3	BS-9B	2	heating pipe (heat for sealing)	Sold as pair
4	BS-9D	4	spring of copper block	
5		4	guide sleeve of upper holding plate	
6	HL-M810-9-6	1	bottom holding plate	
7	CBS-880-9-10	4	heating block support	
8	HL-M810-9A	1	upper heating block	sold as pair, horizontal is different from vertical
9	HL-M810-9A	1	bottom heating block	sold as pair, horizontal is different from vertical
10	HL-M810-8	1	upper cooling block	sold as pair, horizontal is different from vertical
11	HL-M810-8	1	bottom cooling block	sold as pair, horizontal is different from vertical
12	HL-M810-21-12	1	bottom pinch roller shaft	
13	HL-M810-21	2	pinch roller	Includes #13, #14
14	HL-M810-21	2	bearing 24×8	Includes #13, #14
15	HL-M810-21-15	1	upper pinch roller shaft	
16	HL-M810-21-16	1	slide carriage	
17	HL-M810-9-17	1	upper holding plate	
18	BS-60-18	1	support for photoelectric sensor	
19	BS-60	1	photoelectric sensor	Specify Gen A or Gen B
20	BS-48C	1	heating pipe Φ10 110V 40W	
21	BS-48D	1	end cover of printing wheel shaft	
22	BS-48B	1	printing wheel seat assembly	
23	BS-48A	1	printing wheel cover	Includes #23, #24
24	BS-48A	1	holding latch for printing wheel	Includes #23, #24
25	BS-58	1	straining ring for ink roller sleeve	Includes #25, #27
26	IT-IR-15-COLOR	1	ink roller (15mm)	Black
	IT-IR-30-COLOR	1	ink roller (30mm)	Black, White
27	BS-58	1	ink roller sleeve	Includes #25, #27
28	HL-M810-47	1	heating block of ink roller	
	BS-61	1	heating element in heating block	
29	BS-46	1	ink roller shaft	
30	BS-62E	1	swing pole of ink roller	
31	BS-62	1	adjusting post for ink roller's swing pole	Includes #31, #32
32	BS-62	1	adjusting knob for ink roller's swing pole	Includes #31, #32
33	BS-54C	1	pulley of ink roller shaft	
34	BS-54C-34	1	seat for ink roller swing pole shaft	
35	BS-54B-35	1	middle pulley shaft	
36	BS-62H	1	pull rod	
37	BS-64B	1	support for brush	
38	BS-54	1	O-Ring (Φ30×60)	
39	BS-54B	1	middle pulley	
40	BS-53	1	O-Ring (Φ30×50)	
41	BS-64A	1	carbon brush holder	
	BS-64	2	carbon brush	
42	BS-65	1	groove sensor	
43	BS-139	1	electromagnetic clutch assembly	Includes #43, 44, 45, 46
44	BS-139	1	driven sprocket	Includes #43, 44, 45, 46
45	BS-139	1	slip-ring core	Includes #43, 44, 45, 46
46	BS-139	2	copper slip ring	Includes #43, 44, 45, 46
47	BS-140	1	anti-dazzling screen	
48	BS-33A		connecting terminal (4P)	
48	BS-33B	3	connecting terminal (10P)	

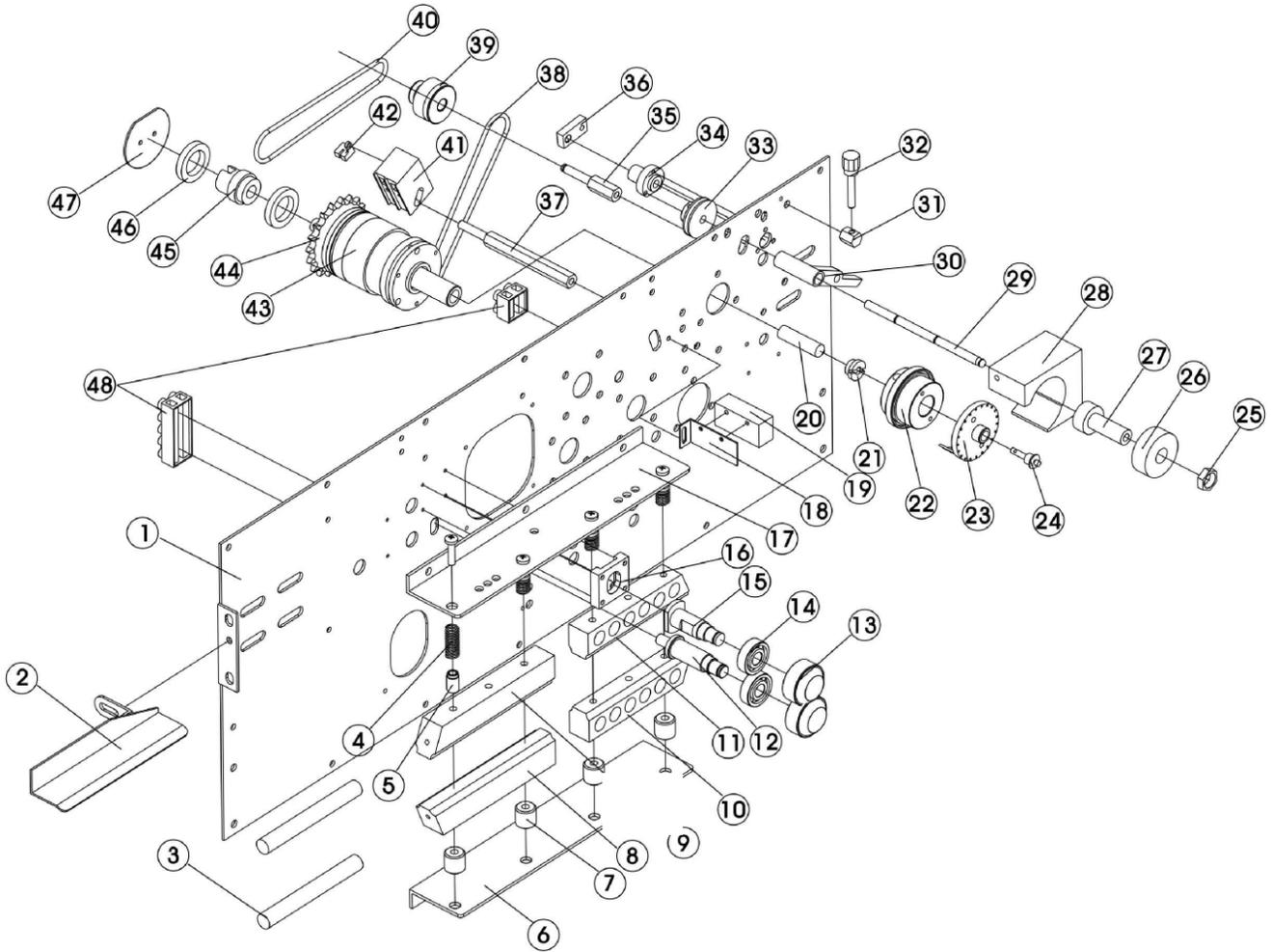


Figure 32. Heating / Cooling Blocks and Dry Ink Coding

Figure 33. Heating / Cooling Blocks and Dry Ink Coding

Item	Part #	Quantity	Description	Comments
1	HL-M810-84	1	bottom board	
2	HL-M810-44	1	feed opening	Horizontal only
3	BS-9B	2	heating pipe (heat for sealing)	Sold as pair
4	BS-9D	4	spring of copper block	
5		4	guide sleeve of upper holding plate	
6	HL-M810-9-6	1	bottom holding plate	
7	CBS-880-9-10	4	heating block support	
8	HL-M810-9A	1	upper heating block	sold as pair, horizontal is different from vertical
9	HL-M810-9A	1	bottom heating block	sold as pair, horizontal is different from vertical
10	HL-M810-8	1	upper cooling block	sold as pair, horizontal is different from vertical
11	HL-M810-8	1	bottom cooling block	sold as pair, horizontal is different from vertical
12	HL-M810-21-12	1	bottom pinch roller shaft	
13	HL-M810-21	2	pinch roller	Includes #13, #14
14	HL-M810-21	2	bearing 24×8	Includes #13, #14
15	HL-M810-21-15	1	upper pinch roller shaft	
16	HL-M810-21-16	1	slide carriage	
17	HL-M810-9-17	1	upper holding plate	
18	BS-60-18	1	support for photoelectric sensor	
19	BS-60	1	photoelectric sensor	Specify Gen A or Gen B
20	BS-48C	1	heating pipe Φ10 110V 40W	
21	BS-48D	1	end cover of printing wheel shaft	
22	BS-48B	1	printing wheel seat assembly	
23	BS-48A	1	printing wheel cover	Includes #23, #24
24	BS-48A	1	holding latch for printing wheel	Includes #23, #24
25	BS-58	1	straining ring for ink roller sleeve	Includes #25, #27
26	IT-IR-15-COLOR	1	ink roller (15mm)	Black, Blue
	IT-IR-30-COLOR	1	ink roller (30mm)	Black, Blue, Green, Red, Yellow, White
27	BS-58	1	ink roller sleeve	Includes #25, #27
28	HL-M810-47	1	heating block of ink roller	
	BS-61	1	heating element in heating block	
29	BS-46	1	ink roller shaft	
30	BS-62E	1	swing pole of ink roller	
31	BS-62	1	adjusting post for ink roller's swing pole	Includes #31, #32
32	BS-62	1	adjusting knob for ink roller's swing pole	Includes #31, #32
33	BS-54C	1	pulley of ink roller shaft	
34	BS-54C-34	1	seat for ink roller swing pole shaft	
35	BS-54B-35	1	middle pulley shaft	
36	BS-62H	1	pull rod	
37	BS-64B	1	support for brush	
38	BS-54	1	O-Ring (Φ30×60)	
39	BS-54B	1	middle pulley	
40	BS-53	1	O-Ring (Φ30×50)	
41	BS-64A	1	carbon brush holder	
	BS-64	2	carbon brush	
42	BS-65	1	groove sensor	
43	BS-139	1	electromagnetic clutch assembly	Includes #43, 44, 45, 46
44	BS-139	1	driven sprocket	Includes #43, 44, 45, 46
45	BS-139	1	slip-ring core	Includes #43, 44, 45, 46
46	BS-139	2	copper slip ring	Includes #43, 44, 45, 46
47	BS-140	1	anti-dazzling screen	
48	BS-33A		connecting terminal (4P)	
48	BS-33B	3	connecting terminal (10P)	

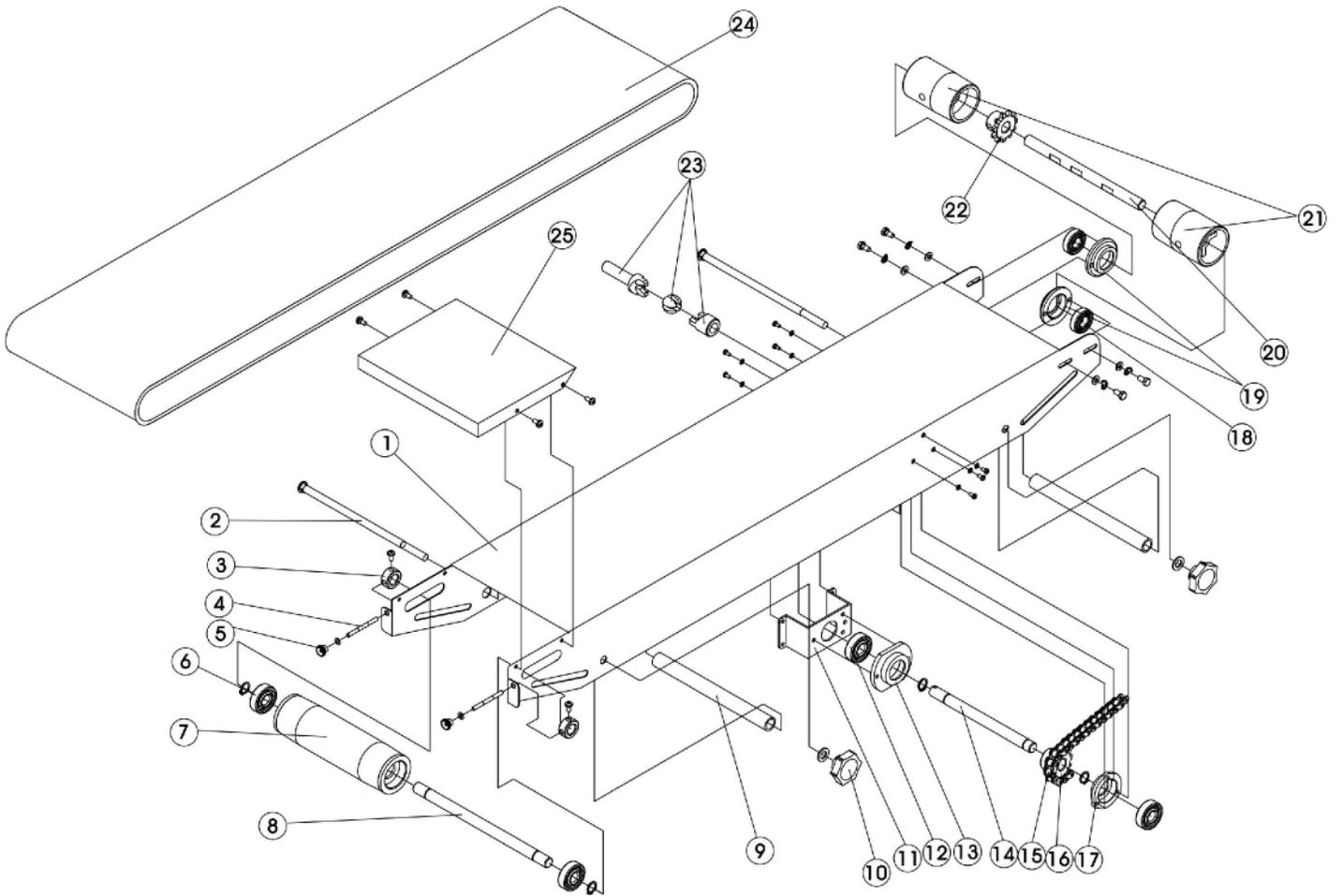


Figure 34. Conveyor Table

Figure 35. Conveyor Table

Item	Part #	Quantity	Description	Comments
1	HL-M810-20	1	Conveying table (980)	
2	HL-M810-18B	2	oval head square neck bolt	
3	BS-16	2	adjusting block for conveyor belt	Includes #3, #4, #5
4	BS-16	2	double end bolt	Includes #3, #4, #5
5	BS-16	2	adjusting knob for conveyor table	Includes #3, #4, #5
6	HL-M810-36	2	Bearing 6002N	Includes #6, #7, #8
7	HL-M810-36	1	FR-770 rear roller	Includes #6, #7, #8
8	HL-M810-36	1	FR-770 conveying table rear shaft	Includes #6, #7, #8
9	HL-M810-18C	2	Spacer FR-770	special order
10	HL-M810-41	2	674 knob	Includes #10-15, #17
11	HL-M810-41	1	Central shaft plate FRM-980	Includes #10-15, #17
12	HL-M810-41	3	Bearing 6201-Z	Includes #10-15, #17
13	HL-M810-41	1	Conveying table central shaftsupport I	Includes #10-15, #17
14	HL-M810-41	1	Conveying table central shaft	Includes #10-15, #17
15	HL-M810-41	1	Conveying table sprocket wheel	Includes #10-15, #17
16	HL-M810-38	1	Driving chain	
17	HL-M810-41	1	Conveying table central shaftsupport II	Includes #10-15, #17
18	HL-M810-37	3	Bearing 6201-2Z	Includes #18-22
19	HL-M810-37	2	Front roller shaft bearing support (two holes)	Includes #18-22
20	HL-M810-37	1	Front roller shaft	Includes #18-22
21	HL-M810-37	2	Front roller	Includes #18-22
22	HL-M810-37	1	Conveying table sprocket wheel	Includes #18-22
23	HL-M810-40A	1	980 Gimbal assembly	
24	HL-M810-1	1	Conveyor 1800x135	
25	HL-M810-15	1	worktable	

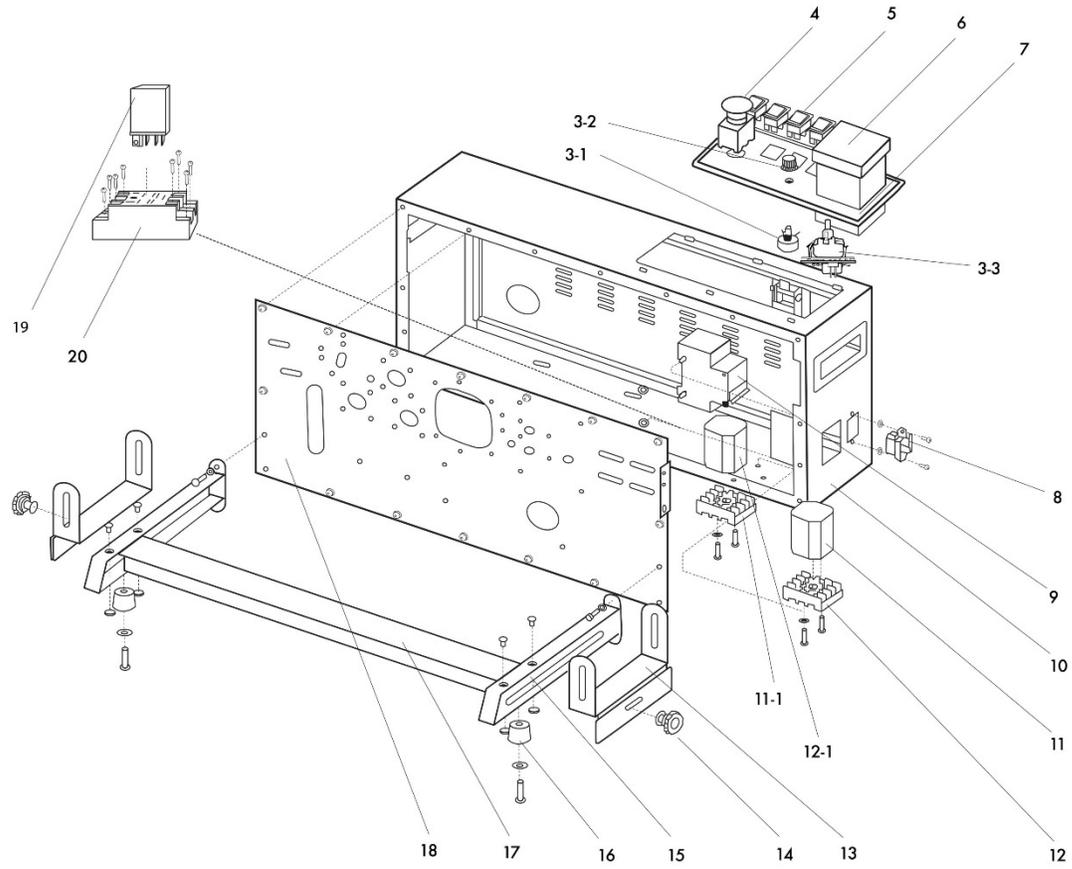
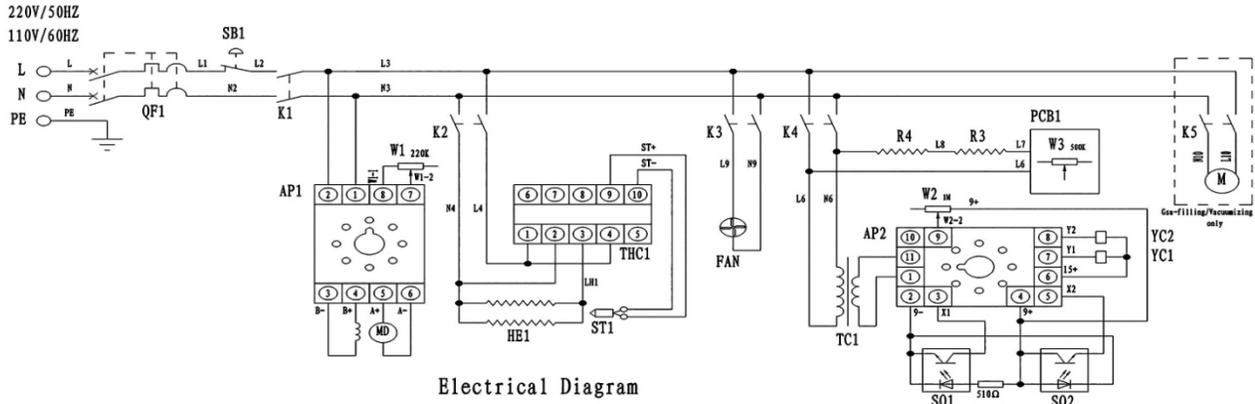


Figure 36. Sealer Body

Figure 37. Sealer Body

Item	Part #	Description	Quantity	Comments
1	HL-M810-88-1	handle support	2	Includes #1, #2
2	HL-M810-88-1	handle clamp	4	Includes #1, #2
3-1	BS-25	carbon-film potentiometer 220K	1	
3-2	BS-25A	K18-2 knob	1	
3-3	BS-50A	ink temperature potentiometer w/ PC Board	1	
4	BS-22A	emergency stop switch	1	
5	BS-22	springboard switch	3	specify large or small
6	TMC-XMTG-1000-2	temperature controller	1	determine version
	TMC-NG-5000	temperature controller	1	determine version
7	HL-M810-83	plastic panel	1	A: old gen / B: new gen
8	BS-14	10 <sup>a</sup> socket		
9	BS-27	DZ47-2P/5A breaker	1	
10	HL-M810-88	housing	1	
11	BS-52A	speed-regulating plate (8 PINS)	1	
12	BS-45A	PF083A socket	1	
11-1	BS-52C	central circuit plate (11 PINS)		
12-1	BS-45A	PF083A socket	1	
13	HL-M810-18	transition table support	2	Includes #13, #14
14	BS-17	(674 Knob) handle	2	Includes #13, #14
15	HL-M810-68	foot	2	specify left or right
16	BS-67B	rubber foot pad	2	specify A or B
17	HL-M810-68B	rail	1	
18	HL-M810-88-18	soleplate (electrophoresis)	1	Steel: 102102-3

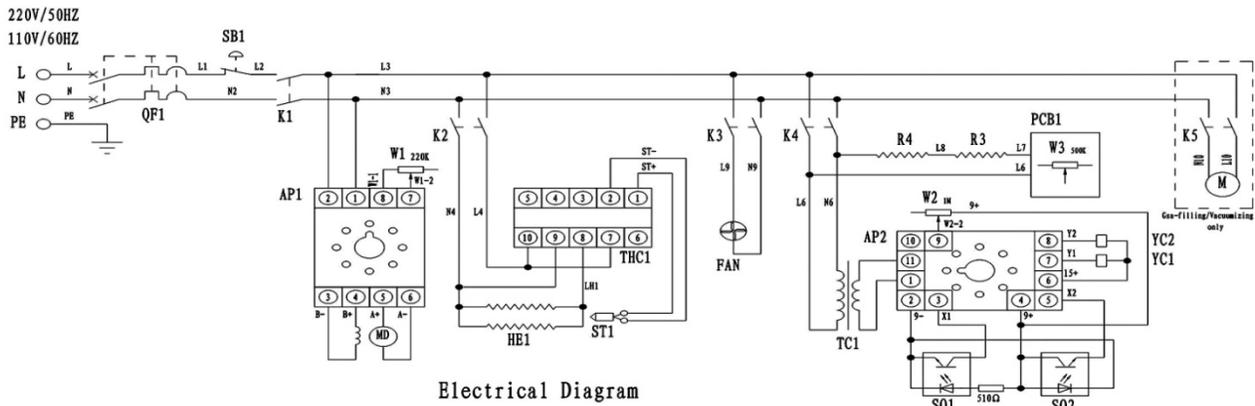
## Electrical Circuit Diagram for NG-5000



Electrical Diagram

QF1-High Rupture Switch SB1-Emergent Stop Switch K1-Power Switch K2-Heat-sealing Switch  
 K3-Fan Switch K4-Printing Switch K5-Gas-filling/Vacuizing Switch W1-Speed Adjustment  
 W2-Marked Position Adjustment W3-Ink-roller temperature HE1-Heat-sealing Heating Pipe  
 R3, R4-Ink-roller Heating Pipe MD-Speed-adjusting Motor M-Gas-filling/Vacuizing Machine  
 FAN-Fan TC1-Transformer YC1-Magnetic Clutch YC2-Magnetic Brake SQ1-Groove Sensor  
 SQ2-Photoelectric Sensor THC1-Temperature Controller ST1-Thermoelectric Couple  
 AP1-Speed-adjusting Plate AP2-Main Controlling Plate PCB1-Temperature-adjusting Plate

## Electrical Circuit Diagram for XMTG-1000-2 (old gen)



Electrical Diagram

**Figure 38. Electrical Circuit Diagram.** (QF1) High Rupture Switch, (SB1) Emergency Stop Switch, (K1) Power Switch, (K2) Switch/Heat Sealing, (K3) Switch/Fan, (K4) Switch/Print, (K5) Switch/Aerate.Vacuum, (W1) Speed-Regulating Potentiometer; (W2) Coding Position-Regulating Potentiometer; (W3) Temperature-Regulating Potentiometer for Ink Roller; (HE1) Heating Element for Sealing, (R3/R4) Heating Element of Ink Roller, (MD), Speed Adjusting Motor, (M) Aerate/Vacuum, (FAN) Fan, (TC1) Transformer, (YC1) Electromagnetic Clutch, (YC2) Electromagnetic Brake, (SQ1) Photoelectric Sensor; (SQ2) Groove Sensor; (THC1) Sealing Temperature Controller; (ST1) Thermocouple

# Troubleshooting

## Changing Emergency Stop

*\*Always unplug the unit from the power source when making adjustments.\*\**

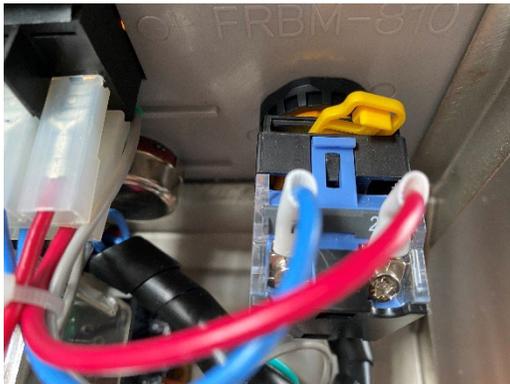
Problem: The emergency stop (Part #BS-22A\_Gen3.0) needs to be replaced



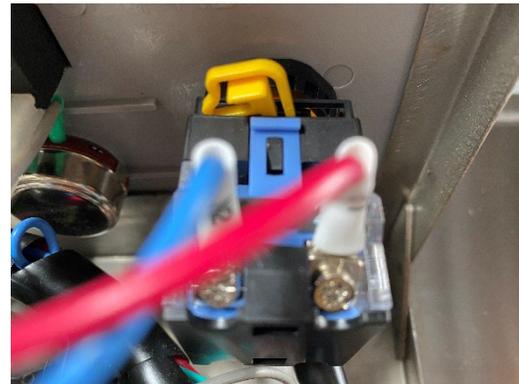
For our smaller band sealers (CBS-880, FR-770, HL-M810, FRM-1010 units), remove the control panel plate from the band sealer. Place the control panel on top of the band sealer for better viewing.

For our larger band sealers (FRM-1120C, FRS-1120W, HL-M1120LD units), remove the control box cover to access the back of the control panel.

1. To remove Gen 3.0 emergency stop, click the yellow tab in release position.

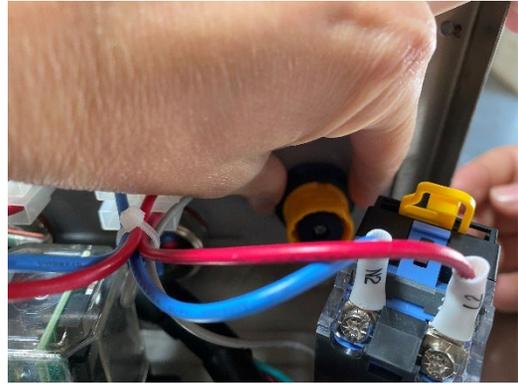


Locked position



Release Position

2. Remove the contact block from the push button. The push button can be removed by loosening the black nut.



3. Make note of the wiring on the emergency stop and reconnect the new emergency stop. Blue wires connect to 11 and 12 and the red wires connect to 21 and 22



4. Connect the contact block to the push button. Match the two pieces where they are labeled top. Push the yellow tab into the locked position.



## Printing Wheel Adjustments

Problem: Print wheel on the band sealer rotates more than once.

Possible Cause: Electromagnetic clutch on the back of the unit and groove sensor are not aligned properly. The flat panel of the electromagnetic clutch signals the groove sensor to stop the print wheel rotation.

1. We suggest the following steps:
2. Loosen the nut as shown in [Figure 39](#). This will allow the carbon brush holder and groove sensor some movement.
3. Push the groove sensor closer to the electromagnetic clutch
4. Re-tighten the nut

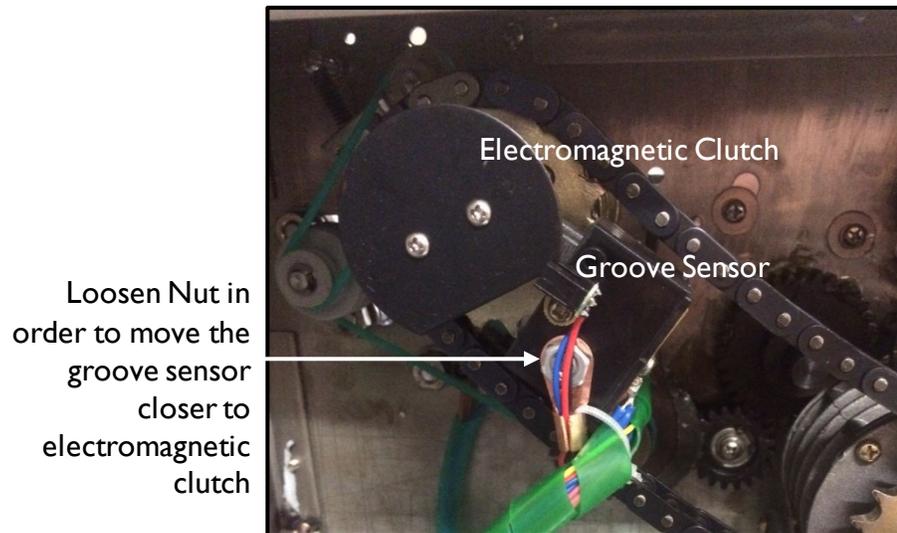


Figure 39. Incorrect position of groove sensor and electromagnetic clutch

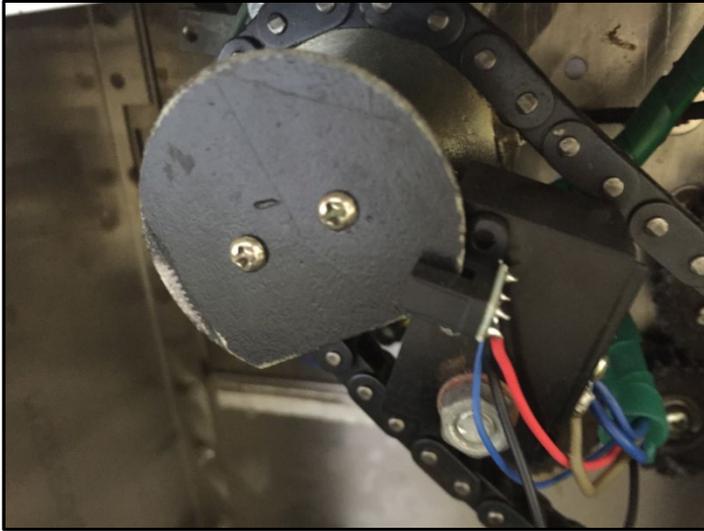


Figure 40. Correct position of groove sensor and electromagnetic clutch

Problem	Possible Causes	Solution
Sealing belt is off tracking.	Driving wheel shaft is not parallel to driven wheel shaft	Adjust two adjusting screws on the adjusting block seat (Part# CBS-880-13)
Sealing belts are tearing	<ol style="list-style-type: none"> <li>1. Too much tension on sealing belt</li> <li>2. Sealing belt is off tracking</li> <li>3. Creases on the sealing belt</li> <li>4. Residual film or other debris attached to the sealing belt</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the vertical adjusting screw on driven wheel seal to decrease tension on sealing belt</li> <li>2. see above</li> <li>3. When installing belt, make sure no creases are found on belt</li> <li>4. Clean surface of belt with cloth</li> </ol>
Seal is crumpled and film sticks to sealing belts	<ol style="list-style-type: none"> <li>1. Temperature is too high</li> <li>2. Guide belt is not correctly in place</li> <li>3. Plastic melted on the sealing belt</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce temperature</li> <li>2. Adjust guide belt</li> <li>3. Clean or replace sealing belt</li> </ol> <p>If any plastic melts on the sealing belt, your bags will stick to the melted plastic</p>
Embossing is not clear	<ol style="list-style-type: none"> <li>1. Embossing roller is worn out</li> <li>2. Pressure spring on embossing roller needs to be tightened</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace embossing roller</li> <li>2. Adjust the embossing roller spring (Part# BS-5)</li> </ol>
Material will not pass through sealing blocks	Clearance between heating blocks or cooling blocks may be too small	Adjust the clearance between blocks by adjusting the springs and stopping flakes found above the blocks
Conveyor belt is off tracking	Driving roller shaft is not parallel to the driven roller shaft	Adjust using the conveyor belt adjustment (Part# BS-16)
Conveyor and sealing belt are not moving at same speed	Not enough tension on conveyor belt	<ol style="list-style-type: none"> <li>1. Tighten the chain of driving roller shaft (front shaft) and middle shaft. (Parts # HL-M810-36 and HL-M810-41)</li> <li>2. Tighten the conveyor belt</li> </ol>
Temperature doesn't rise or cannot be controlled	<ol style="list-style-type: none"> <li>1. Heat switch is damaged</li> <li>2. Heater (BS-9B) is damaged</li> <li>3. Temperature Controller</li> <li>4. Coupling</li> </ol>	<p>Replace:</p> <ol style="list-style-type: none"> <li>1. Heat switch (BS-22-Large)</li> <li>2. Heater (BS-9B)</li> <li>3. Temperature Controller</li> <li>4. Thermocouple (HL-M810-34)</li> </ol>

Problem	Possible Causes	Solution
Ink roller not rotating	<ol style="list-style-type: none"> <li>1. Power supply not connected</li> <li>2. Main PC Board out of place</li> <li>3. Main PC Board damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Check power</li> <li>2. Check plug for PC Board (BS-52C)</li> <li>3. Check and replace PC Board (BS-52C)</li> </ol>
Printing wheel does not rotate	<ol style="list-style-type: none"> <li>1. Sensor is blocked</li> <li>2. Sensor is not clean and eye is blocked by dust</li> <li>3. Main PC Board damaged</li> <li>4. Electromagnetic clutch wire is broken</li> </ol>	<ol style="list-style-type: none"> <li>1. Make sure sensor is not blocked</li> <li>2. Clean sensor</li> <li>3. Replace PCB (BS-52C)</li> <li>4. Check clutch</li> </ol>
Printing wheel does not stop rotating	<ol style="list-style-type: none"> <li>1. Sensor (groove) is damaged, needs adjustment or is dirty</li> <li>2. Photoelectric sensor is damaged or dirty</li> <li>3. Main PC Board is damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace or correct position of the groove sensor or clean its surface (BS-65)</li> <li>2. Replace or clean photoelectric sensor (BS-60)</li> <li>3. Replace PC Board (BS-52C)</li> </ol>
No heat on the ink heating block	<ol style="list-style-type: none"> <li>1. Heating element in heating block is damaged</li> <li>2. Heating PCB is damaged</li> <li>3. Potentiometer w/ PC Board (BS-50A) is damaged</li> <li>4. Carbon brush is not in place</li> <li>5. Carbon brush is damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace element (BS-48C) in heating block</li> <li>2. Replace PCB (BS-50A)</li> <li>3. Replace potentiometer with PC Board (BS-50A)</li> <li>4. Adjust and tighten nut on carbon brush seat</li> <li>5. Replace carbon brush</li> </ol>
Temperature of heating block for ink roller cannot be regulated	Relay for temperature control PCB is damaged	Check and replace temperature control PCB (BS-50A)
Printing position cannot be regulated	<ol style="list-style-type: none"> <li>1. Tighten screw on printing wheel</li> <li>2. Coding seat potentiometer may be damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten screw on printing wheel.</li> <li>2. Replace coding seat potentiometer (BS-51)</li> </ol>
Motor runs at a high speed and cannot be regulated	Speed controller has malfunctioned	Replace the speed controller (BS-52A)
Power, heater, and or fan switches do not light up	<ol style="list-style-type: none"> <li>1. No AC Voltage</li> <li>2. Lamp is damaged</li> <li>3. Emergency stop is in off position</li> </ol>	<p>Check power source / power cord</p> <p>Connect the power</p> <p>Replace the lamp</p> <p>Release emergency stop</p>

Problem	Possible Causes	Solution
Machine does not run	<ol style="list-style-type: none"> <li>1. Board for speed regulation is abnormal</li> <li>2. Doesn't connect well</li> <li>3. Brushes in the motor are too short because of friction</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace the speed board (BS-52A)</li> <li>2. Tighten the connecting screws</li> <li>3. Replace motor brushes (BS-29A)</li> </ol> <p>If the temperature controller works and the power lamp illuminates but the motor does not move, start off by checking the motor and turbocase connection. Remove the back of the machine and you will see bushing where the motor connects to the gear box. Ensure the bushing is not broken. There is also a set screw that connects the bushing to the gear box / motor shafts. Ensure that these are tight so that when the motor turns, the turbocase turns as well.</p> <p>If the turbocase is noisy before it stopped working, the gear box could be broken inside. Lack of oil could cause this.</p> <p>If the lamp illuminates and the motor does not turn, the motor speed controller may need to be replaced.</p>

# Spare Parts List

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Included with your band sealer are the following parts. Please note that spare parts included with your band sealer are subject to change without notice.

- ❖ Typeset Box which includes numbers (0-9), Letters – EXP, MFD, silicone pins (Part# BS-59), tweezers, and allen wrench
- ❖ Power Cord (Part# PWC-CBS)
- ❖ PTFE Sealing Belts (Part# HL-M810-10)
- ❖ Drive Belts (Part# HL-M810-26)
- ❖ Speed Adjusting PC Board (Part# BS-52A)
- ❖ Central Circuit PC Board (Part# BS-52C)
- ❖ Ink Temperature Potentiometer with Heat PC Board (Part# BS-50A)
- ❖ O-Rings (Part#s BS-53 and BS-54)
- ❖ Silicone Ring (Part#BS-57A)
- ❖ Ink Roller Holder (Part# BS-58)
- ❖ Ink Rollers, 15mm (Part# IT-IR-15-BLK)
- ❖ Groove (Trough) Sensor (BS#BS-65)
- ❖ Carbon Brush for Printer (BS#64)
- ❖ Philips Screwdriver
- ❖ Flat Screwdriver
- ❖ Allen Wrench (3mm and 5mm)
- ❖ Wrench

# Quality Control Testing

Our band sealers are manufactured in a facility which is certified in accordance with ISO 9001:2008. In addition, we quality test all of our band sealers in our facility following a rigorous and exacting standards to ensure that the product you purchased is a high quality reliable machine.

✓ Steps	Description
	Inspect all wiring on the unit, nothing is loosely attached. Make sure all wires are connected correctly.
	Make sure all connections are tight and properly mounted. (Ex: PC Board, Relay)
	Check parts to ensure they are in proper working order (ex: wheels, belts, knobs, etc)
	CBS-880 only - Attach the conveyor to the body via the drive shaft (Part #40). Detach after testing.
	Turn on machine - start, seal, fan, printer Check all knobs to make sure they start and end in the correct position
	Make adjustments as necessary if there is any unusual noise. Noise should be under 80db.
	Check fan - There should be air coming out of the cooling blocks
	Check motor - motor brushes should be held in tightly
	Check conveyor belt to make sure the belt is running smoothly and evenly
	Run machine for at least 20 minutes - after the seal temperature has been reached, seal bag sample to ensure good quality seal
	<b><u>Band Sealers w/ Printing Option:</u></b> Printing - make sure ink heating block, ink printing wheel are at optimal heat temperature
	Sensor and Coding Seat - test the sensor and coding seat are working properly; make adjustments as necessary
	Clean machine
	Enter serial # of the unit in the manual
	Repackage sealer w/ QC form, sealed bag / printed sample and manual.

Date:

Technician:

