In Martessé Band Sealer

FRM-1010 Continuous Band Sealer Instruction Manual

Distributed By:

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Printed in the United States of America

General Information

Thank you for purchasing our FRM-1010 Impressé continuous 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.

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FRM-1010 EQUIPMENT INFORMATION

✤ Model #

Serial #

Purchase Date:

✤ Reference # (found on packing slip)

✤ Owner:

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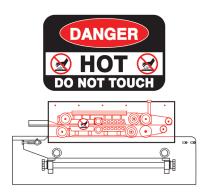
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Safety Instructions

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: <u>Your personal safety is your</u> <u>responsibility</u>.

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 plugging into 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. Do NOT use the machine for any other purpose other than to seal thermoplastic materials. Doing so may result in damage to the machine and injury to the 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.



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



While machine is in operation, 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.
- 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

Scan QR Code for Video Demo



FRM-1010 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 FRM-1010 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 FRM-1010 band sealer. The horizontal configuration (FRM-1010I) is primarily used for sealing dry materials and when you can lay flat your pouch. The vertical configuration (FRM-1010II) 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 FRM-1010 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 right to left
- 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
- ✤ 10amp protection power surge breaker
- Equipped with photo sensor for optimal printing precision
- Dry ink coder for printing characters at the seal line
- Wide seal (15mm) to assure airtight seal / 20mm wide seal band sealer available via special order
- ✤ PTFE sealing belts
- NeXt Gen heating blocks larger heating blocks for more efficient heat penetration
- 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

How Does the FRM-1010 Work?

Basic

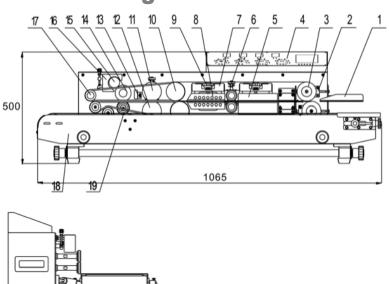
Principles FRM-1010 is easy to use. To seal, adjust temperature and place bag on conveyor FRM-1010 is comprised of a stainless steel frame, speed adjusting mechanism, sealing temperature control system and transmission system. Turning on the heat for the band sealer will cause a rapid rise in the temperature 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. Material will then pass through the embossing wheel for a meshed seal line. 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

	FRM-1010I (Horizontal)	FRM-1010II (Vertical)	
Power	110V/60Hz		
Motor Power	60W		
Sealing Speed	0-472 inches/minutes		
Sealing Width	15mm		
	(Optional 20mm width unit available via special order)		
Temperature Range	0-300°C (572°F)		
Conveyor Size	42" x 8"		
Max Conveyor Load	6.6lbs		
Min/Max Height of Bag (Vertical	N/A	7.9" / 12.6"	
Only)			
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	42" x 18" x 14"	42" x 16" x 27"	
Net Weight	119lbs	132lbs	



FRM-1010 Diagram

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Figure 1. Horizontal Band Sealer - FRM-1010 (1) Guide, (2) Driven Wheel Seat (Adjusting Block), (3) Driven Wheel, (4) Control Panel, (5) Heating Block, (6) Pinch Roller (7) Heating/Cooling Block Seats, (8) Cooling Block, (9) Block Control Knob, (10) Driving Wheel (11) Embossing Wheel, (12) Silicone Wheel for Embossing (13) Photoelectric Sensor, (14) Printing Wheel, (15) Ink Roller, (16) Ink Roller Heating Block, (17) Guide Wheel (Small), (18) Conveyor Table, (19) Silicone Wheel

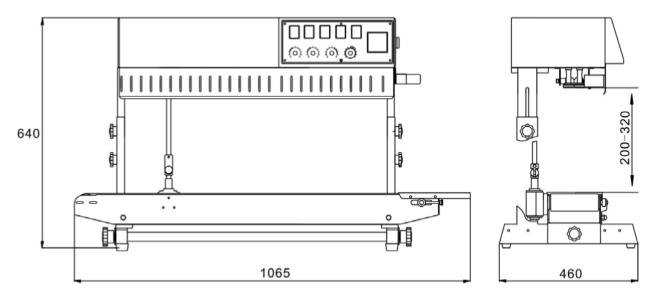


Figure 2. Vertical Band Sealer FRM-1010II

FRM-1010 INSTRUCTION MANUAL

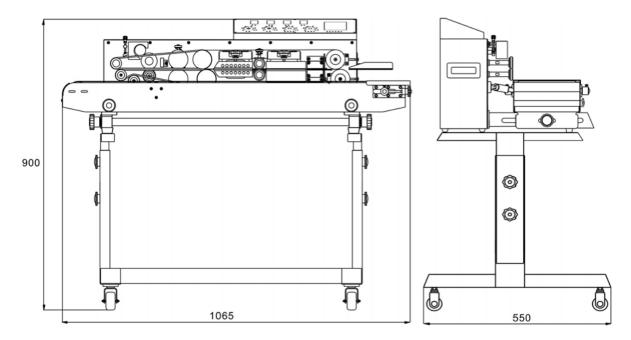


Figure 3. Horizontal Band Sealer with Stand. Optional stand available for FRM-1010. Please ask your distributor.

Getting to Know your Band Sealer



Warranty

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.

EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE EXTENT PERMITTED BY LAW; SEALER IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF ITS PRODUCTS OR ANY BREACH OF WARRANTY OR CONDITION, WHETHER BASED ON CONTRACT, TORT, OR ANY OTHER LEGAL THEORY AND REGARDLESS OF WHETHER SEALER WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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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

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 newFRM-1010 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. Foam pieces hold and protect the band sealer. Remove the foam pieces.
- 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). 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.

Operation Set-up

- 1. Our machines are equipped with a three-prong grounded plug. Make sure the plug is wellconnected in the socket to ensure safe operation.
- 2. Make sure the circuit breaker is in the "ON" position. (Levers pointing up)
- 3. 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.
- 4. For some materials, an adjustment to the clearance between the upper heating block and the bottom heating block may be necessary. The clearance can be adjusting by turning the block control knob (Figure 4, Item #1). Turning the knob clockwise will raise the upper heating block (increase the clearance) and turning the knob counter clockwise will lower the upper heating block (decrease the clearance). Similar adjustments should also be made with the cooling blocks. The clearance should be equal to the thickness of one layer of your material to be packaged. This will ensure high seal quality and embossing. *Please note that the majority of materials sealed will NOT need adjustments*.

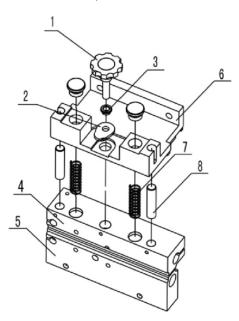


Figure 4. (1) Control Block Knob, (2) Adjusting Nut, (3) Nut, (4) Upper Heating Block, (5) Lower Heating Block, (6) Block Holding Plate, (7) Spring, (8) Guide Post

5. Adjust the conveyor position forwards or backwards. Refer to **Figure 5** for knob adjustments. For vertical configuration only, adjust the height of the band sealer appropriate for your bag to be sealed.

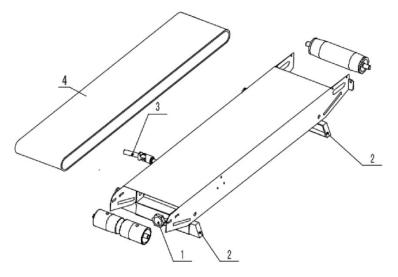


Figure 5. (1) Adjusting Knob, (2) Foot Rest, (3) Gimbal Assembly, (4) Conveyor Belt.

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



To adjust the position of the seal line, move the guide forwards or backwards. Moving the guide forward (left) will move the seal line towards the top of the bag and moving the guide back (right) will move the seal line towards the bottom of the bag.

Figure 6. Band Sealer Guide

Operation



Figure 7. Control Panel of FRM-1010

- 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. <u>Please note: Temperature will be in Celsius, not Fahrenheit.</u> 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.

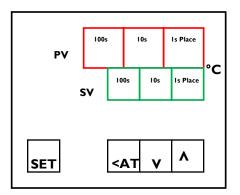


Figure 8. FRM-1010 Temperature Controller

- a. To set the temperature, press the SET button.
- b. Press the <AT (auto tuning) button to move from the ones, tens, and hundreds place. Adjust the 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. <u>Please note:</u> Temperature will be in <u>Celsius</u>, 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. <u>Please do not set the temperature controller above 200°C</u>. Please contact your local distributor if you need assistance.
- 6. Adjust the pressure knob on your band sealer depending on the thickness of your bag material.
- 7. Place material on the guide (Figure 34, Item #1) 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.
- 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 9, Item #1 & 2)

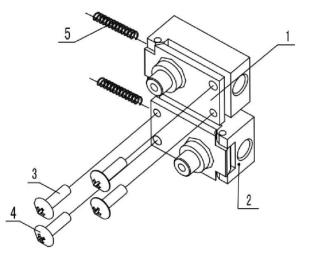


Figure 9. (1) Driven Wheel Seat (Adjusting Block), (2) Driven Wheel Seat (Adjusting Block), (3)/(4) Adjusting Screws, (5) Springs

- 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.

Printing Operation

FRM-1010 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. Check our YouTube channel (https://www.youtube.com/user/sealersales) for a video demo.

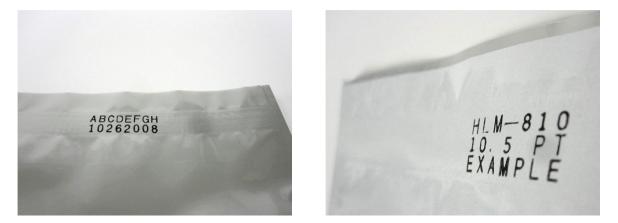


Figure 10. Standard font size - 18PT

Figure 11. 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 12 and Figure 13 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.



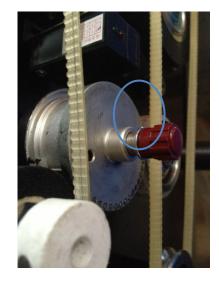


Figure 12. Locked Handle Position

Figure 13. Unlocked Handle Position

2. 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 14. Place characters from right to left.

Figure 15. Place silicone pin to lock characters in place.

3. **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 16. Ensure two holes and pins line up with the base

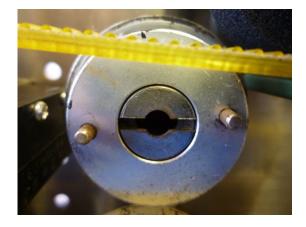


Figure 17. Ensure two holes and pins line up with the base

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 18. Remove metal wring found on the ink roller holder

Figure 19. 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 20. Correct Ink Roller Position

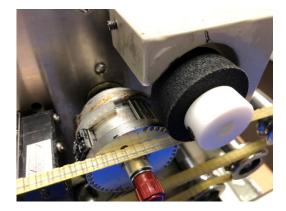


Figure 21. Incorrect Ink Roller Position

Test the ink roller position relative to the printing wheel. Place your finger under the photoelectric sensor (Figure 38, Item #29). The sensor light will turn green and allow the printing wheel to rotate.

6. Make Adjustments to 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 22, 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.

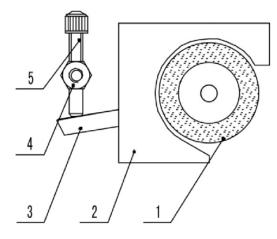


Figure 22. (1) Ink Roller, (2) Ink Roller Heating Block, (3) Swing Pole, (4) Adjusting Strut, (5) Ink Wheel Adjusting Device

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 23, Item #4) should be loosened. Rotate the eccentric sleeve (Figure 23, Item #3) to ensure the characters/typesets slightly tough the silicone wheel's surface. Refasten the screw after making adjustments.

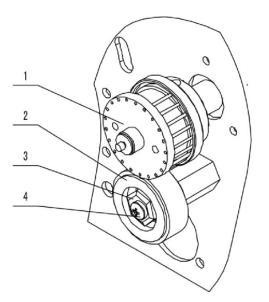


Figure 23. (1) Printing Wheel, (2) Silicone Wheel, (3) Eccentric Sleeve, (4) Screw

- 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 Printing Position. The coding seat knob determines printing position on your material. For example, if you want to print on the right side of your bag, turn the coding seat to its

lowest setting (or counterclockwise). If you want to print on the left 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 (Figure 34, Item #31) 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 FRM-1010 band sealer.

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

- 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. Lift the safety cover. You may need to remove the safety cover.
- 4. Remove the two drive belts. Gently tug both belts out of the small pulleys and release belts from driving wheel.
- 5. To remove the sealing belts, push on the adjustment blocks (Figure 34, Item #51) and the sealing belts should easily slip off.
- 6. Put new sealing back on the machine. Test the machine, making adjustments as necessary.
 - a. To install the upper sealing belts, place the belt in between the drive and driving wheels. Push the adjustment blocks and slide the sealing belts in place. Lift the adjusting screws on top of the heating and cooling blocks and adjustment placement of the sealing blocks.



Figure 24.



Figure 25.

b. To install the lower sealing belts, first remove the guide (Part#FRM-1010-34). Push the adjustment blocks and slide the sealing belts in place. Guide the sealing belts in place.





Figure 26.

Figure 27.

7. Install the new drive belts. Start by placing them on the grooves found on the driving wheel and small pulley



Figure 28.





- 8. Replace the safety cover.
- 9. Check out our video demonstration (https://vimeo.com/270233770) for more information.

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.

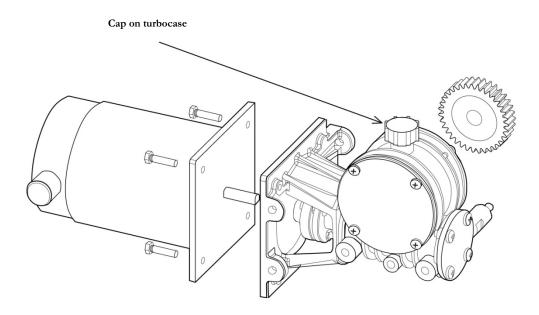


Figure 30. Turbocase cap

Printing Maintenance

FRM-1010 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 43, 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 32. Remove Washer Holding Ink Temperature Potentiometer

Figure 31. Remove Ink Temperature Knob

- 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.

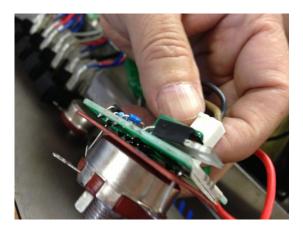


Figure 33. Unplug Ink Temperature Potentiometer w/ PC Board and Replace with a New Ink Temperature Potentiometer w/ PC Board

FRM-1010 INSTRUCTION MANUAL

Parts Diagram

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

- Figure 34 Spare Parts Diagram Overview
- Figure 36 Heating / Cooling Blocks
- Figure 38 Dry Ink Coding
- Figure 40 Conveyor Table
- Figure 42 Motor / Turbocase
- Figure 43 Sealer Body

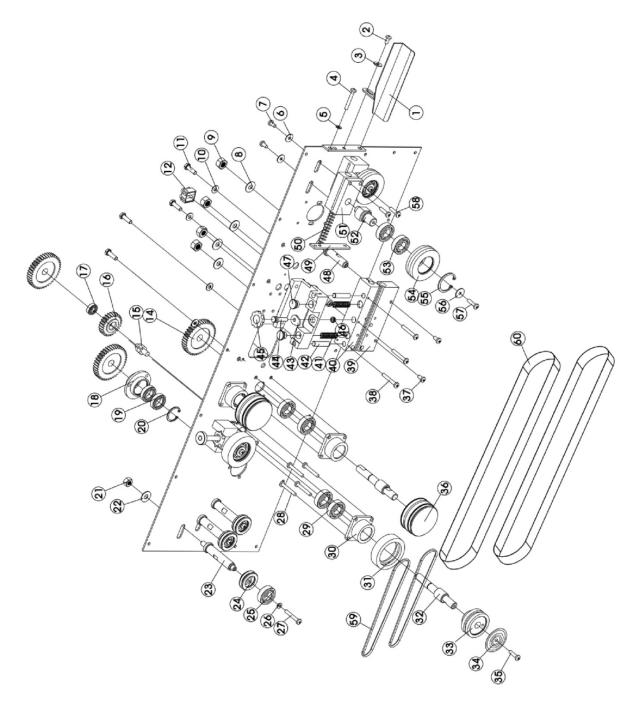


Figure 34. Spare Parts Diagram Overview

Item	Part #	Quantity	Description	Comments
1	FRM-1010-44	1	feed opening	
2			plus screw	
3			washer	
4			plus screw	
5			washer	
6			washer	
7			screw	
8			washer	
9			hexagon nut	
10			washer	
11			hexagon nut	
12	BS-33A	1	wiring terminal (H5219-2T)	
14	FRM-1010-35B		drive gear	
15		1	driven wheel shaft	
16	FRM-1010-35E		driven gear	
17			bearing of driven wheel	
18		1	bearing seat	
19			bearing	
20			circlip	
21			hexagon nut	
22			washer	
23		2	shaft of small pulley	
24		2	small pulley	
25			bearing of small pulley	
26			washer	
27			plus screw	
28			plus screw	
29			bearing of silicone wheel	
30	CBS-880-6-27A	2	bearing seat	

Figure 35. Spare Parts Diagram Overview

FRM-1010 INSTRUCTION MANUAL

Item	Part #	Quantity	Description	Comments
31	BS-57A	1	silicone wheel	
32		1	silicone wheel shaft	
33			silicone wheel	
34	BS-57	1	cover of silicone wheel	
35			plus screw	
36	FRM-1010-6	2	driving wheel	
37	Screw-BS-M3x6		screw M3x6	
38	Screw-BS-M4x35		screw M4x35	
39	FRM-1010-9A	1	bottom heating block	Includes #39, 40
40	FRM-1010-9A	1	upper heating block	Includes #39, 40
41	FRM-1010-8/9-41		regulating spring	
42	FRM-1010-8/9-42	2	guide post	
43	FRM-1010-8/9-43		adjusting nut	
44	FRM-1010-8/9-44.46	2	adjusting screw	Includes #44, 46
45	FRM-1010-8/9-45		knob of control rod	
46	FRM-1010-8/9-44.46		spring seat	Includes #44, 46
47	FRM-1010-8/9-47	4	adjusting screw	
48		2	shaft of heating block	
49		1	spring seat of driven wheel	
50			adjusting spring of driven wheel	
51	FRM-1010-13	2	adjusting seat of driven wheel	
52		2	driven wheel shaft	
53	FRM-1010-12		bearing	Includes #53,54
54	FRM-1010-12	1	driven wheel	Includes #53,54
55			circlip	
56			washer	
57			plus screw	
58			plus screw	
59	FRM-1010-26	2	guiding belt	
60	FRM-1010-10	2	sealing belt	

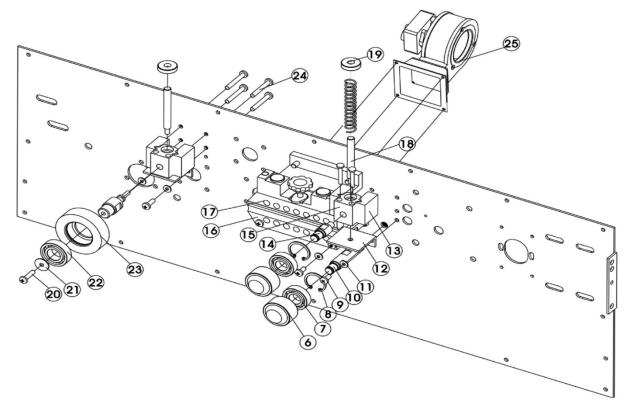


Figure 36. Heating / Cooling Blocks

Item	Part #	Quantity	Description	Comments
6	FRM-1010-21	2	pinch roller	Includes #6, #7
7	FRM-1010-21		bearing of pinch roller	Includes #6, #7
8			circlip	
9			plus screw	
10		1	shaft of pinch roller	
11			washer	
12			seat for adjusting screw	
13			guide rail of embossing rollerseat	
14			upper pinch roller seat	
15		1	embossing roller seat	
16	FRM-1010-8	1	bottom cooling block	Includes #16, 17
17	FRM-1010-8	1	upper cooling block	Includes #16, 17
18			control rod	
19			knob of control rod	
20			plus screw	
21			washer	
22			bearing	
23		1	embossing roller	
24			plus screw	
25	HL-M810-32	1	fan assembly (CY063)	
26				
27				
28				
29				
30				
31				

Figure 37. Heating / Cooling Blocks

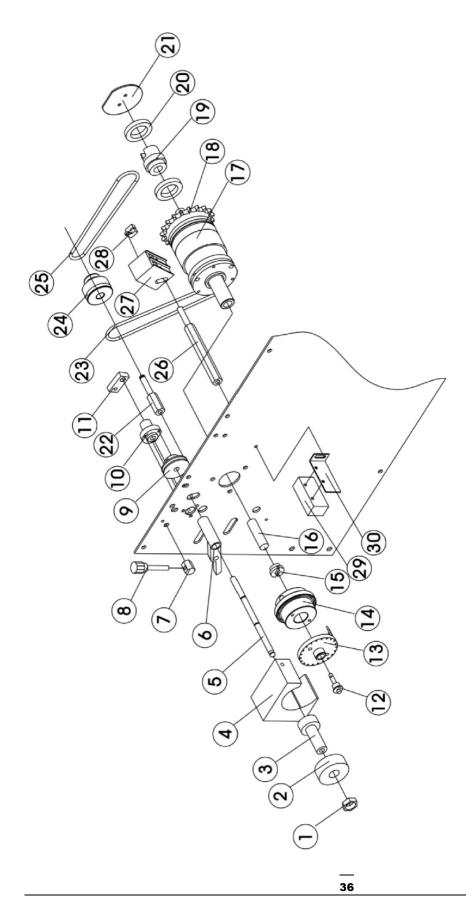


Figure 38. Dry Ink Coding

Figure 39. Dry Ink Coding

Item	Part #	Quantity	Description	Comments
1	BS-58	1	jam nut	Includes #1, 3
2	IT-IR-15-Color	1	ink roller (15mm)	
	IT-IR-30-Color		ink roller (30mm)	
3	BS-58	1	ink roller sleeve	Includes #1, 3
4	FRM-1120C-47	1	heating block of ink roller	
5	BS-46	1	ink roller shaft	
6	BS-62E-FRM	1	swing pole of ink roller	
7	BS-62		adjusting post for ink roller's swing pole	Includes #7, 8
8	BS-62		adjusting knob for ink roller's swing pole	Includes #7, 8
9	BS-54C	1	pulley of ink roller shaft	
10	BS-54C-34	1	seat for ink roller swing pole shaft	
11	BS-62H	1	pull rod	
12	BS-48A	1	holding latch for printing wheel	Includes #12,13
13	BS-48A	1	printing wheel cover	Includes #12,13
14	BS-48B	1	printing wheel seat assembly	
15	BS-48D	1	end cover of printing wheel shaft	
16	BS-48C	1	heating tube $\Phi 10~110V~40W$	
17	BS-139-FRM-1010	1	electromagnetic clutch assembly	Includes #17-20
18	BS-139-FRM-1010	1	driven sprocket	Includes #17-20
19	BS-139-FRM-1010	1	slip ring core	Includes #17-20
20	BS-139-FRM-1010	2	copper slip ring	Includes #17-20
21	BS-140		anti-dazzling screen	
22	BS-54B-35	1	middle pulley shaft	
23	BS-54	1	0-Ring (Ф30×60)	
24	BS-54B	1	middle pulley	
25	BS-53	1	0-Ring (Ф30×50)	
26	BS-64B	1	support for brush	
27	BS-64A	1	carbon brush holder	
	BS-64	2	carbon brush	
28	BS-65	1	groove sensor	
29	BS-60	1	photoelectric sensor	
30	BS-60-18	1	support for photoelectric sensor	

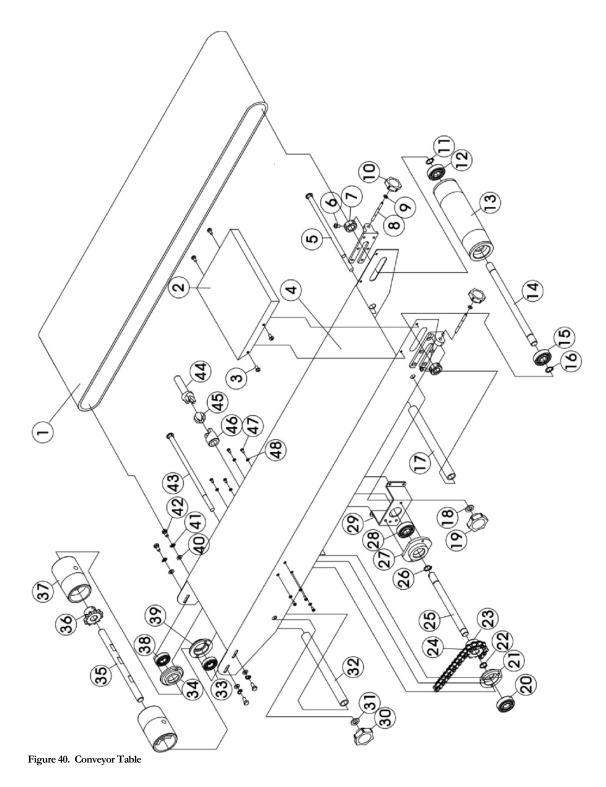
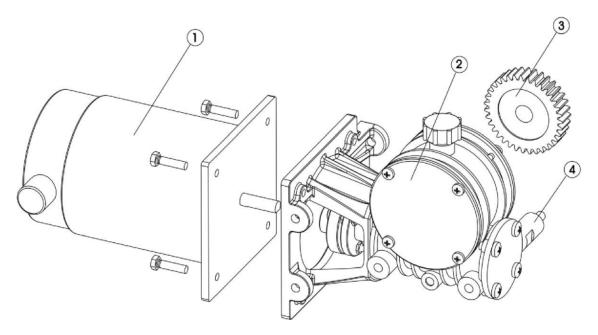


Figure 41. Conveyor Table

Item	Part #	Quantity	Description	Comments
1	FRM-1010-1	1	conveyor belt	
2	FRM-1010-15	1	stock supporting plate	
3			plus screw	
4	FRM-1010-20		conveyor table	
5	FRM-1010-18		half-round square neck bolt	Includes #5, 17-19
6	FRM-1010-16		plus screw	Includes #6-10
7	FRM-1010-16		adjusting block of conveyor belt	Includes #6-10
8	FRM-1010-16		double end bolt	Includes #6-10
9	FRM-1010-16		washer	Includes #6-10
10	FRM-1010-16	4	knob	Includes #6-10
11	FRM-1010-36		circlip	Includes #11-16
12	FRM-1010-36		bearing	Includes #11-16
13	FRM-1010-36	1	rear roller (right conveyor roller)	Includes #11-16
14	FRM-1010-36	1	rear roller shaft	Includes #11-16
15	FRM-1010-36		bearing	Includes #11-16
16	FRM-1010-36		circlip	Includes #11-16
17	FRM-1010-18	2	separating tube	Includes #5, 17-19
18	FRM-1010-18	_	washer	Includes #5, 17-19
19	FRM-1010-18	8	knob	Includes #5, 17-19
20	FRM-1010-41	0	bearing	Includes #20-23, 25-29
20	FRM-1010-41		bearing seat	Includes #20-23, 25-29
22	FRM-1010-41		circlip	Includes #20-23, 25-29
23	FRM-1010-41	1	sprocket of conveyor table	Includes #20-23, 25-29
23	FRM-1010-38	1	chain	
25	FRM-1010-41	1	middle shaft of conveyor table	Includes #20-23, 25-29
26	FRM-1010-41	I.	-	Includes #20-23, 25-29
			circlip	Includes #20-23, 25-29
27	FRM-1010-41		bearing seat	Includes #20-23, 25-29
28	FRM-1010-41		bearing	Includes #20-23, 25-29
29	FRM-1010-41		underlay plate of middle shaft	Includes #20-23, 25-29
30	BS-17		knob	
31	FRM-1010-18		washer	
32	FRM-1010-18		separating tube	Includes #33-39
33	FRM-1010-37		bearing	Includes #33-39
34	FRM-1010-37		bearing seat	
35	FRM-1010-37		front roller shaft (left)	Includes #33-39
36	FRM-1010-37	1	sprocket of conveyor table	Includes #33-39
37	FRM-1010-37	1	front roller	Includes #33-39
38	FRM-1010-37		bearing	Includes #33-39
39	FRM-1010-37		bearing seat	Includes #33-39
40			flat washer	
41 42			spring washer plus screw	
42			half-round square neck bolt	
44	FRM-1010-40A		adjusting shaft	Includes #44-46
45	FRM-1010-40A		connecting ball	Includes #44-46
46	FRM-1010-40A		connector	Includes #44-46
47			plus screw	
48			flat washer	

40



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Figure 42. Motor / Turbocase
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Item	Part #	Description	Quantity	Comments
1	CBS-880-29	110V DC motor	1	
	FRM-1010-20_Gen2.0	110V DC motor	1	
	BS-29A	motor brush	2	Not shown.
2	FRM-1010-30	worm-gear case assembly	1	
3		driving gearwheel	1	
4		pig iron gearwheel / turbocase support	1	

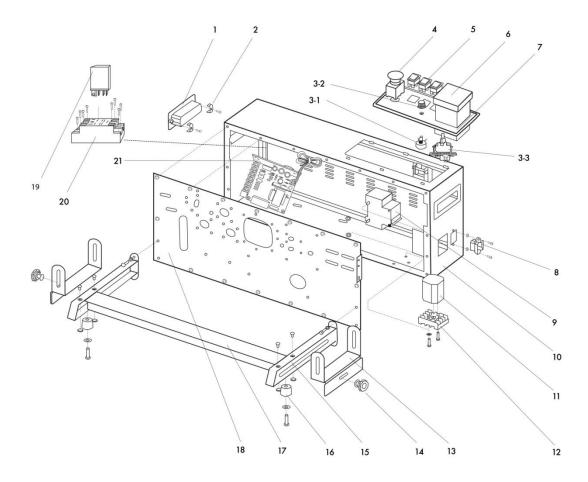
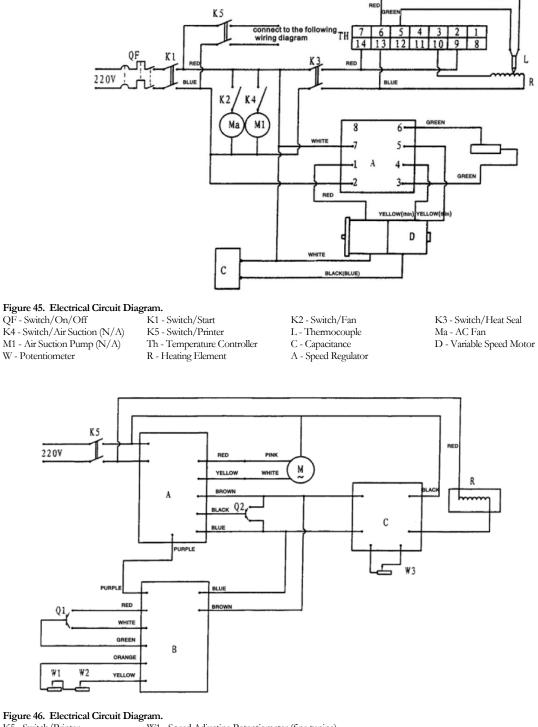


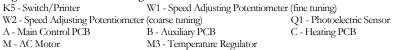
Figure 43. Sealer Body

119410	H. Scaler Dody			
Item	Part #	Description	Quantity	Comments
1	FRM-1010-88-1	handle support	2	Includes #1, #2
2	FRM-1010-88-1	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	emergeny stop switch	1	
5	BS-22	springboard switch	3	specify large or small
6	TMC-XMTG-1000-2	2301 temperature controller	1	
	TMC-NG-5000	temperature controller	1	determine version
7	FRM-1010-83	plastic panel	1	A: old gen / B: new gen
8	BS-14	10ª socket		
9	BS-27	DZ47-2P/5A breaker	1	
10	FRM-1010-88	housing	1	
11	BS-52A	speed-regulating plate (8 PINS)	1	
12	BS-45A	PF083A socket	1	
13	FRM-1010-18	transition table support	2	Includes #13, #14
14	BS-17	(674 Knob) handle	2	Includes #13, #14
15	FRM-1010-68	foot	2	specify left or right
16	BS-67B	rubber foot pad	2	specify A or B
17	FRM-1010-68B	rail	1	
18	FRM-1010-88-18	soleplate (electrophoresis)	1	Steel: 102102-3
19	R-JQX-13F	relay	1	
20	BS-74A	seat for relay	1	
21	FRM-1010-31	PC Board	1	

Figure 44. Sealer Body

Electrical Circuit Diagram







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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.



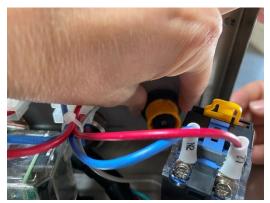
Locked position



Release Position

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



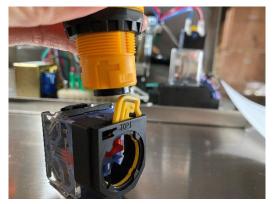


3. Make note of the wiring on the emergency stop and reconnect the new emergency stop. Blue wires connect to 11 and 12 and the red wires connect to 21 and 22





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 grove sensor to stop the print wheel rotation.

- 1. We suggest the following steps:
- 2. Loosen the nut as shown in Figure 47. This will allow the carbon brush holder and grove sensor some movement.
- 3. Push the groove sensor closer to the electromagnetic clutch
- 4. Re-tighten the nut

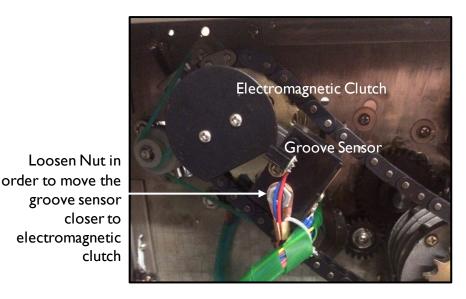


Figure 47. Incorrect position of groove sensor and electromagnetic clutch

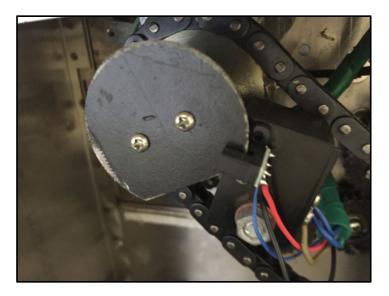


Figure 48. Correct position of groove sensor and electromagnetic clutch

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# FRM-1010-13)	
Sealing belts are tearing	 Too much tension on sealing belt Sealing belt is off tracking Creases on the sealing belt Residual film or other debris attached to the sealing belt 	 Adjust the vertical adjusting screw on driven wheel seal to decrease tension on sealing belt see above When installing belt, make sure no creases are found on belt Clean surface of belt with cloth 	
Seal is crumpled and film sticks to sealing belts	 Temperature is too high Guide belt is not correctly in place Plastic melted on the sealing belt 	 Reduce temperature Adjust guide belt Clean or replace sealing belt If any plastic melts on the sealing belt, your bags will stick to the melted plastic 	
Embossing is not clear	 Embossing roller is worn out Pressure spring on embossing roller needs to be tightened 	1. Replace embossing roller 2. Adjust the embossing roller spring (Part# BS-5)	
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	 Tighten the chain of driving roller shaft (front shaft) and middle shaft. (Parts # HL-M810-36 and HL-M810-41) Tighten the conveyor belt 	
Temperature doesn't rise or cannot be controlled	1. Heat switch is damaged 2. Heater (BS-9B) is damaged 3. Temperature Controller 4. Coupling	Replace: 1. Heat switch (BS-22-Large) 2. Heater (BS-9B) 3. Temperature Controller 4. Thermocouple (FRM-1010-34)	

Problem	Possible Causes	Solution	
Printing wheel does not rotate	 Sensor is blocked Sensor is not clean and eye is blocked by dust 	 Make sure sensor is not blocked Clean sensor Replace PCB (BS-53C) 	
Printing wheel does not stop rotating	 Sensor (groove) is damaged or dirty Photoelectric sensor is damaged or dirty 	 Replace or correct position of the groove sensor or clean its surface (BS-65) Replace or clean photoelectric sensor (BS-60) 	
No heat on the ink heating block	 Heating element in heating block is damaged Heating PCB is damaged Potentiometer w/ PC Board (BS- 50A) is damaged Carbon brush is not in place Carbon brush is damaged 	 Replace element (BS-48C) in heating block Replace PCB (BS-50A) Replace potentiometer with PC Board (BS-50A) Adjust and tighten nut on carbon brush seat Replace carbon brush 	
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	 Tighten screw on printing wheel Coding seat potentiometer may be damaged 	 Tighten screw on printing wheel. Replace coding seat potentiomter (BS-51) 	
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	 No AC Voltage Open Fuse Lamp is damaged 	Check power source / power cord Connect the power Replace the fuse Replace the lamp	

Problem	Possible Causes	Solution
Machine does not run	 Board for speed regulation is abnormal Doesn't connect well Brushes in the motor are too short because of friction 	 Replace the speed board (BS-52A) Tighten the connecting screws Replace motor brushes (BS-29A) 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. If the turbocase is noisy before it stopped working, the gear box could be broken inside. Lack of oil could cause this. If the lamp illuminates and the motor does not turn, the motor speed controller may need to be replaced.

Spare Parts List

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# FRM-1010-10)
- Drive Belts (Part# FRM-1010-26)
- 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.

\checkmark	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
		Band Sealers w/ Printing Option:
		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: