

300ES ENERGY SMART WRAPPER

OPERATING MANUAL & SERVICE PARTS



(216) 341-2022

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MACHINE TECHNOLOGY & COMPONENTS

Energy Smart Wrapper Overview

- The Energy Smart Wrapper features an advanced “Instant On” seal plate that rapidly heats from room temperature to sealing temperature in just seconds. Using a built-in photo-eye sensor, the system automatically detects when a package is being wrapped and activates the heat cycle, typically lasting about 3 seconds. After each cycle, the wrapper automatically powers down to conserve energy and reduce heat exposure for improved safety.
- All seal plates are tested by Heat Seal prior to shipment to ensure proper function.



Maintenance Tip:

To maintain a clean, effective, and sanitary sealing surface, inspect the non-stick cover regularly and replace it approximately every 3 months, or sooner if worn or damaged.

Photo-Eye Actuated Heater

- The heat cycle of the seal plate (1) is automatically activated when a package is placed in front of the photo-eye sensor (2). This smart feature ensures the seal plate only uses energy when in active use, improving efficiency and reducing energy consumption.



Important:

Do **not** use the seal plate (1) as a cutting surface. Doing so can damage the heating element and non-stick cover.

Damage caused by misuse is not covered under warranty.



MACHINE TECHNOLOGY & COMPONENTS

GFCI Protection

- To ensure electrical safety, the wrapper is equipped with a Ground Fault Circuit Interrupter (GFCI) located in the electrical box. If the wrapper becomes wet or a ground fault occurs, the GFCI may trip and require a reset.



Warning:

Do not reset the GFCI if there is visible damage to the seal plate. Contact a qualified technician for inspection before use.

Electrical Requirements

- The Model 750ES requires 120 volts, 60Hz, 132 watts.

Additional Features

- **Square-Edged Hot Rod:** Cuts film cleanly and efficiently for smooth wrapping.
- **Built-In Circuit Breakers:** Allow quick resets and reduce maintenance downtime.
- **Replaceable Non-Stick Cover:** Helps maintain a clean, sanitary sealing surface.
- **Durable Construction:** Made with rigid aluminum and stainless steel for long-lasting performance.

SETUP & OPERATING INSTRUCTIONS

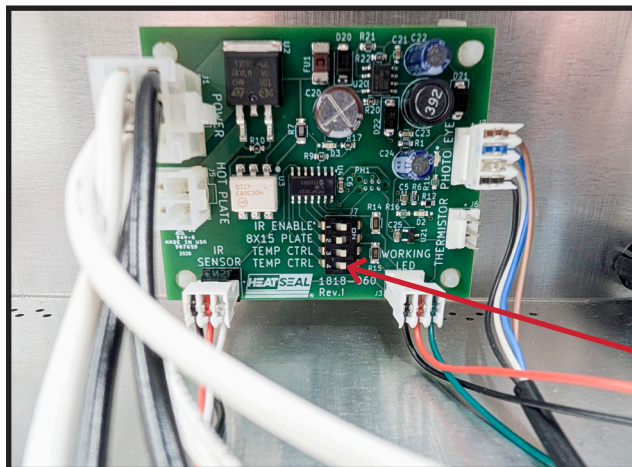
Choice Of Four Sealing Temperatures

- The wrapper provides four sealing temperature options. Select the setting that best matches the type of film and tray being used to ensure optimal performance.
- Adjust the temperature using the selector switch on the circuit control board. **(C)**
- Select the setting that provides the best seal for your tray and film type.
- Refer to the images on **page 5** for a visual guide to each temperature setting.

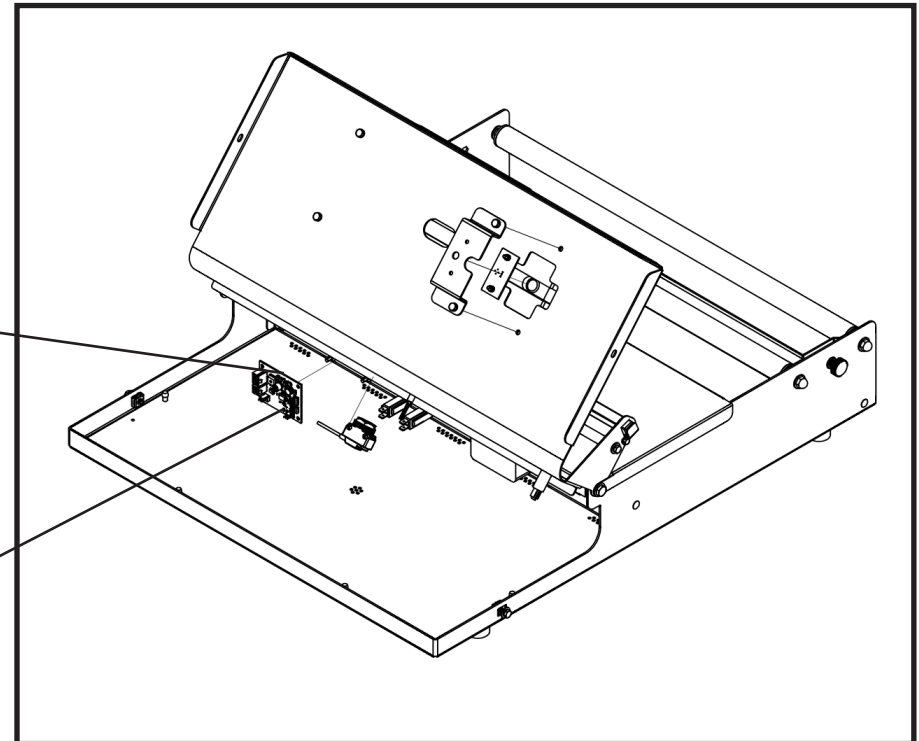


Warning:

Always power off and unplug the machine before accessing the circuit control board.



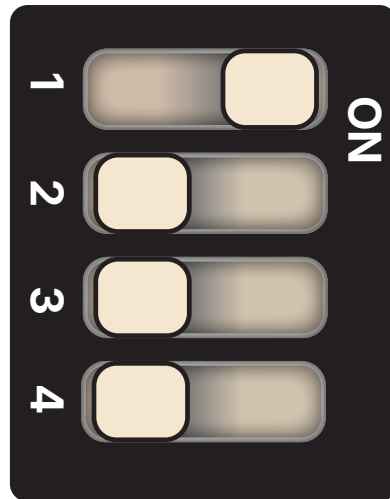
(C)



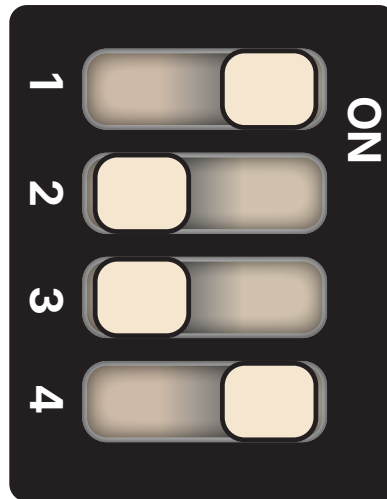
SETUP & OPERATING INSTRUCTIONS

Temperature Switch Settings

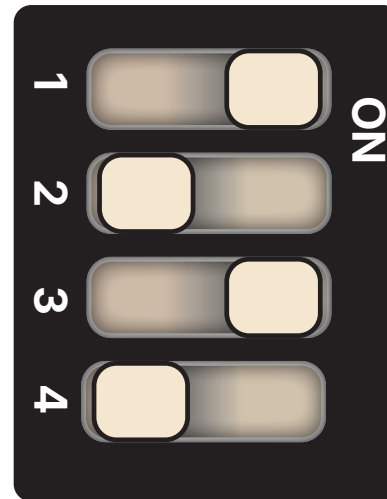
350° F



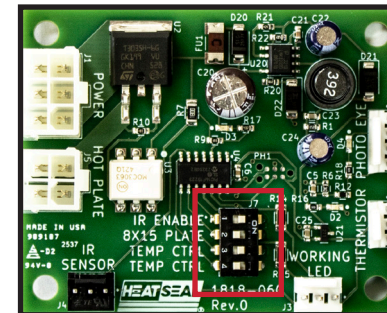
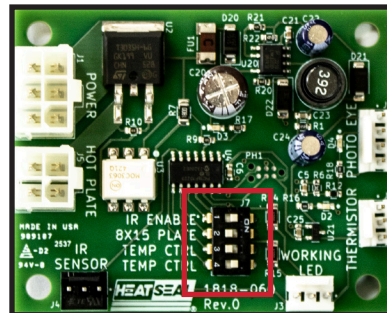
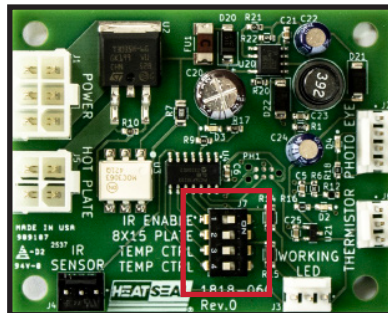
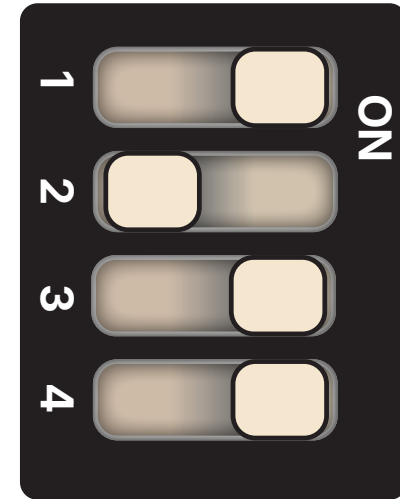
375° F



400° F



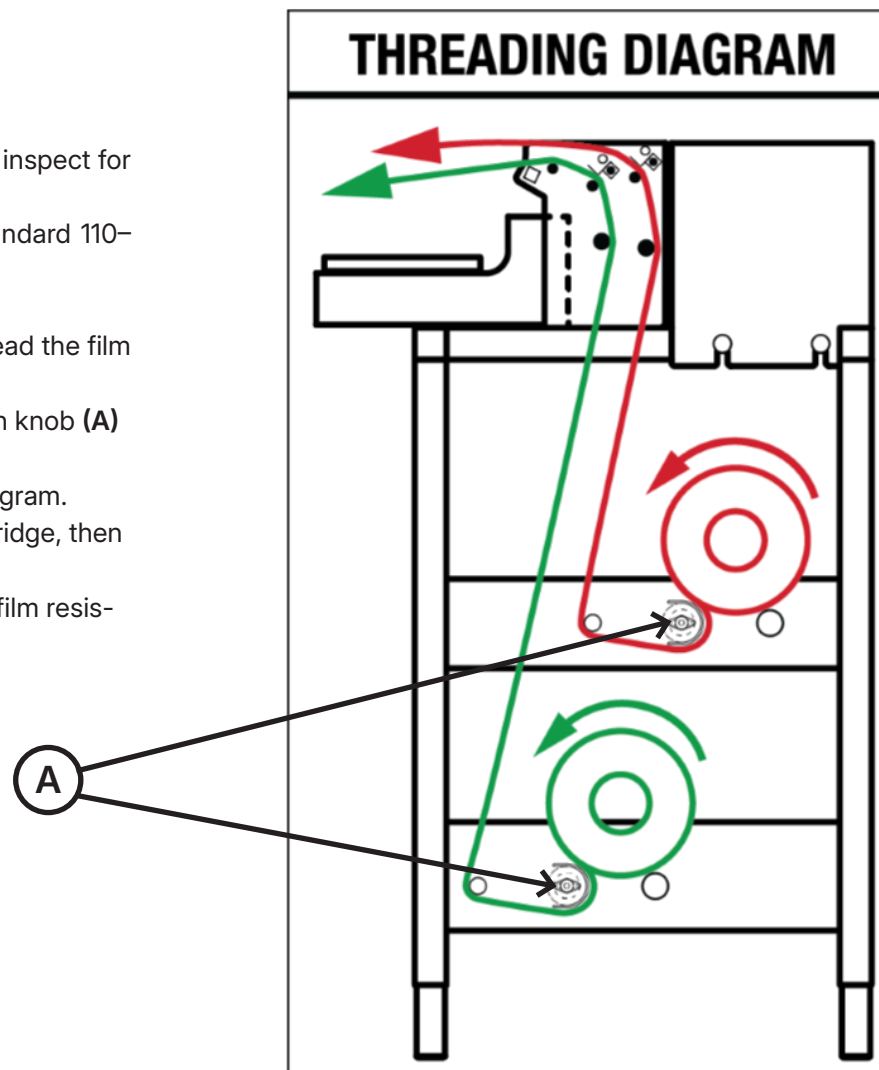
425° F



SETUP & OPERATING INSTRUCTIONS

Initial Setup & Operation

- **Unpack the Wrapper:** Carefully remove the wrapper from the carton and inspect for any visible damage.
- **Power Connection:** Unwrap the power cord and plug the unit into a standard 110–115V electrical outlet.
- **Power On:** Turn the wrapper on using the power switch.
- **Load Film Roll:** Obtain a roll of film (maximum width: 20"). Mount and thread the film properly through the system.
 - **Film Direction:** Stand on the side of the machine with the black tension knob (A) facing you. Ensure the film unwinds counter-clockwise from the roll.
 - **Film Threading:** Guide the film between the rollers as shown in the diagram.
 - **Wrapping & Cutting:** Pull the film under the stainless steel wrapping bridge, then cut it using the hot rod.
 - **Adjusting Tension:** Turn the tension knob (A) to increase or decrease film resistance for smooth operation.

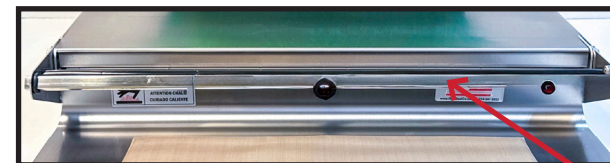


SETUP & OPERATING INSTRUCTIONS

Initial Setup & Operation (Continued)

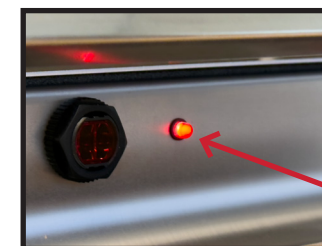
Cut-Off Rod Heat Up

- **Heating the Cut-Off Rod:** Once powered on, the film cutting rod (4) will begin heating.
- Allow several minutes for it to reach optimal cutting temperature.



Heat Cycle Indicator Light

- A multi-colored light (5) will change from yellow, when the plate is heating, to red when the plate is at film sealing temperature, and then green; Indicating a continuous sealing temperature for difficult film and tray package combinations.
- **System Indicators:**
 - **Heat Cycle Indicator Light:** Illuminates when the sealing plate is active.
 - **IR Sensor Temperature Control:** Maintains optimal sealing temperature.



IR Sensor Temperature Control

- The wrapper is equipped with an Infrared (IR) Sensor to ensure accurate temperature control of the seal plate.
- Because the seal plate heats rapidly and retains residual heat from previous cycles, the IR Sensor automatically adjusts the heat cycle duration. When wrapping packages in quick succession, the heat cycle will be shorter than 3 seconds.
- The red and green indicator lights show the current sealing status based on real-time temperature readings from the IR Sensor.

Test Seal

- Once the system is ready, seal a test package to confirm proper operation.

RECOMMENDED MAINTENANCE



BEFORE CLEANING, TURN OFF THE UNIT, UNPLUG AND LET THE MACHINE COOL DOWN

Seal Plate & Non-Stick Cover Maintenance

- **Routine Replacement:** Replace the non-stick cover at least every 3 months, or sooner if it becomes soiled, worn, punctured, or damaged. This helps maintain a sanitary, stick-free sealing surface and protects the seal plate.
- **Important Usage Notes:**
 - The non-stick cover is porous, meaning liquids can absorb into the material and burn off on the seal plate
 - The seal plate is not designed to be used as a cutting surface. Any punctures or physical damage to the plate will compromise its function and void the warranty.
- **Cleaning Instructions:** Use a mild degreaser applied to a soft rag or paper towel, do not spray directly onto the plate.
- Proper care and timely replacement of the non-stick cover will help extend the life of the seal plate and maintain safe, efficient operation.

Cleaning the Film Cut-Off Rod

Over time, the Cut-Off Rod may accumulate food residue, liquids, or heated film buildup. This reduces cutting efficiency by preventing the rod from reaching full operating temperature. Regular cleaning restores optimal performance.

- **Cleaning Procedure:** Turn Off and Cool: Switch off the machine and allow the rod to cool completely.
- **Protect Area:** Place paper towels beneath the rod to catch overspray and debris.
- **Apply Degreaser:** Spray the rod with an FDA-approved degreaser.
- **Scrub Surface:** After soaking, gently scrub with a Scotch-Brite™-type scour pad. (The stainless steel rod will not be damaged.)
- **Wipe Clean:** Use paper towels or cloths to remove loosened residue.
- **Repeat if Needed:** Reapply degreaser and clean again until the rod is thoroughly clean.

Cleaning The Unit

- Clean the 750ES wrapper by wiping it down with a mild detergent and a soft rag or paper towels.

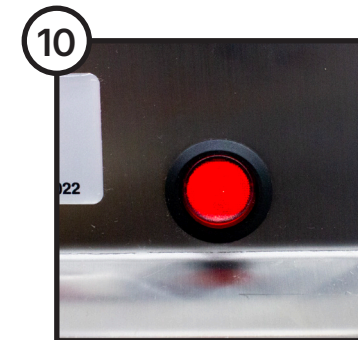
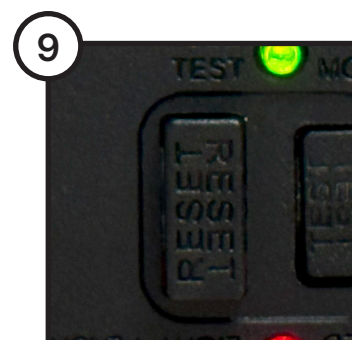
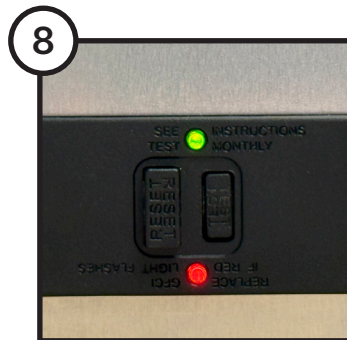
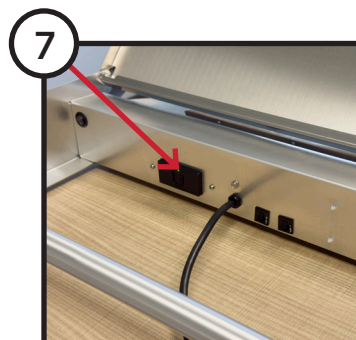
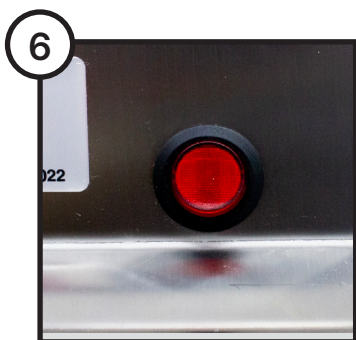


Important:

Do not hose down or submerge the unit in water.

TROUBLESHOOTING

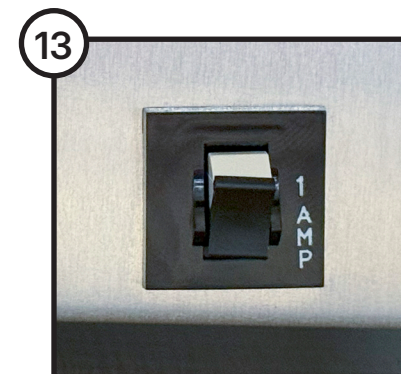
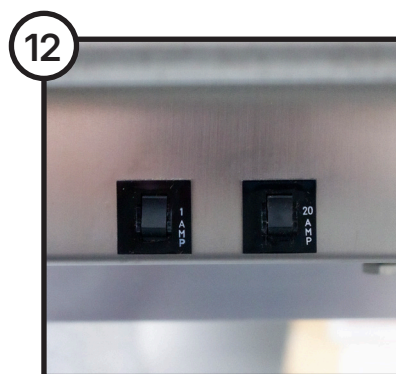
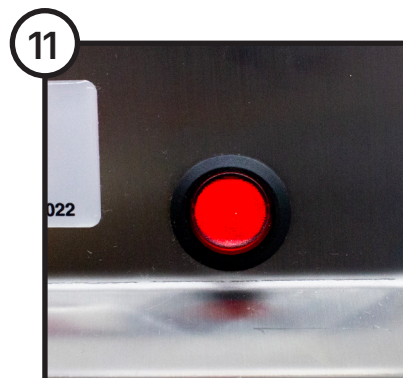
Symptom	Possible Solution
No Power To The Unit.	- Ensure the unit is plugged into a working electrical outlet. - Confirm the Power Switch (6) is in the "ON" position. - Check if the GFCI (7) has tripped. - If both GREEN and RED lights are illuminated on the GFCI (8), firmly press the RESET button (9) to reset it. - After resetting, the GFCI should show only the GREEN power light, and the RED Power Indicator (10) on the right side of the front panel should be illuminated.



If the Unit Still Does Not Power On: If you have followed all previous steps and the unit still does not power on, the issue may be due to a loose plug or wire. Please contact Customer Service at (216) 341-2022 for assistance in diagnosing and resolving the problem.

TROUBLESHOOTING

Symptom	Possible Solution
Film Cut-Off Rod Does Not Heat	- Verify the unit is plugged into a working outlet and the Power Switch is set to the "ON" position (11). - Verify that the 1 Amp circuit breaker is set properly (12). If the circuit breaker is tripped, it will show the white tab (13). Firmly press in on the breaker switch to reset, then turn the machine back on. - If the Film Cut-Off Rod still does not heat, the Cut-Off Rod has burned out and should be replaced.

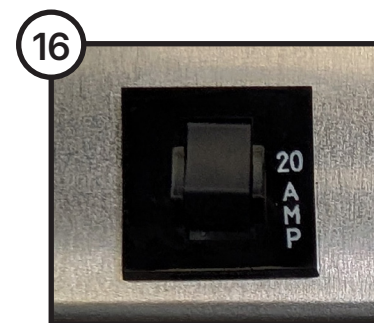
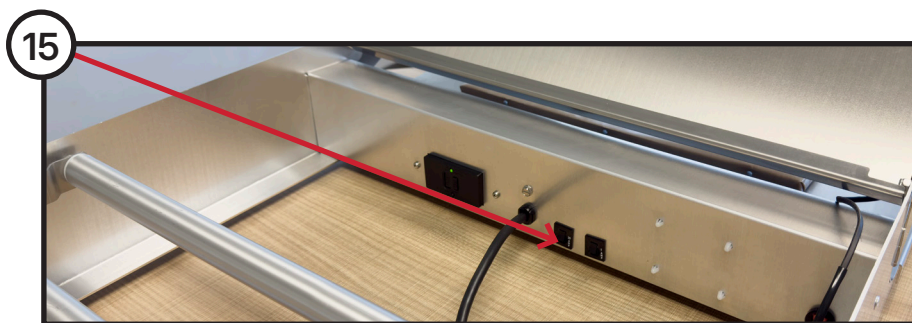


Symptom	Possible Solution
Film Cuts Too Slowly	Clean Cut-off Rod surface (See page 8) and verify it is not bent.

Symptom	Possible Solution
Seal Plate Is Heating Up, But Not To Full Temp.	If the IR sensor is faulty, the machine will continue to run heat cycles when the photo-eye is activated. However, these cycles will operate at a reduced temperature to protect the seal plate.

TROUBLESHOOTING

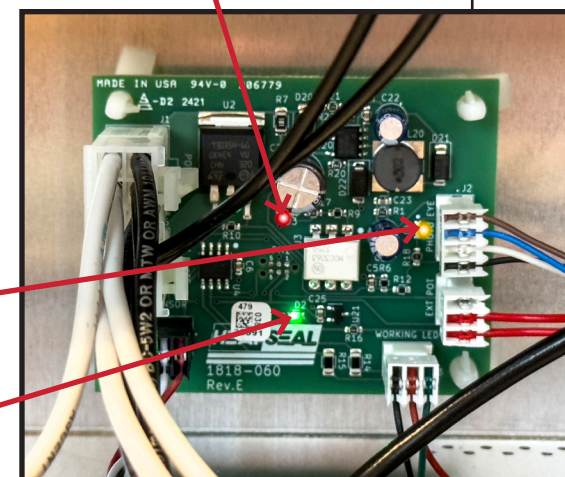
Symptom	Possible Solution
Unit Has Power But The Seal Plate Does Not Heat	Check Power and Indicator Light: Verify the unit is powered on. Does the Heat Indicator Light turn ON when the photo-eye is triggered? Check Circuit Breaker: If neither the Heat Indicator Light nor the Seal Plate activates: • Verify the 20 Amp Circuit Breaker (15) has not tripped. • Confirm the power indicator light is glowing red. • If you see a white tab on the breaker switch, the breaker has tripped. Turn the machine OFF, then firmly press the breaker switch to reset (16). Check Heat Cycle Indicator: If the Seal Plate still does not heat, observe the Heat Cycle Indicator LED on the front panel: • Blinking THREE times: The seal plate has burned out and must be replaced. • Blinking TWICE: The IR sensor is faulty and must be replaced. Component Replacement: Replace the faulty component as indicated by the blinking pattern.



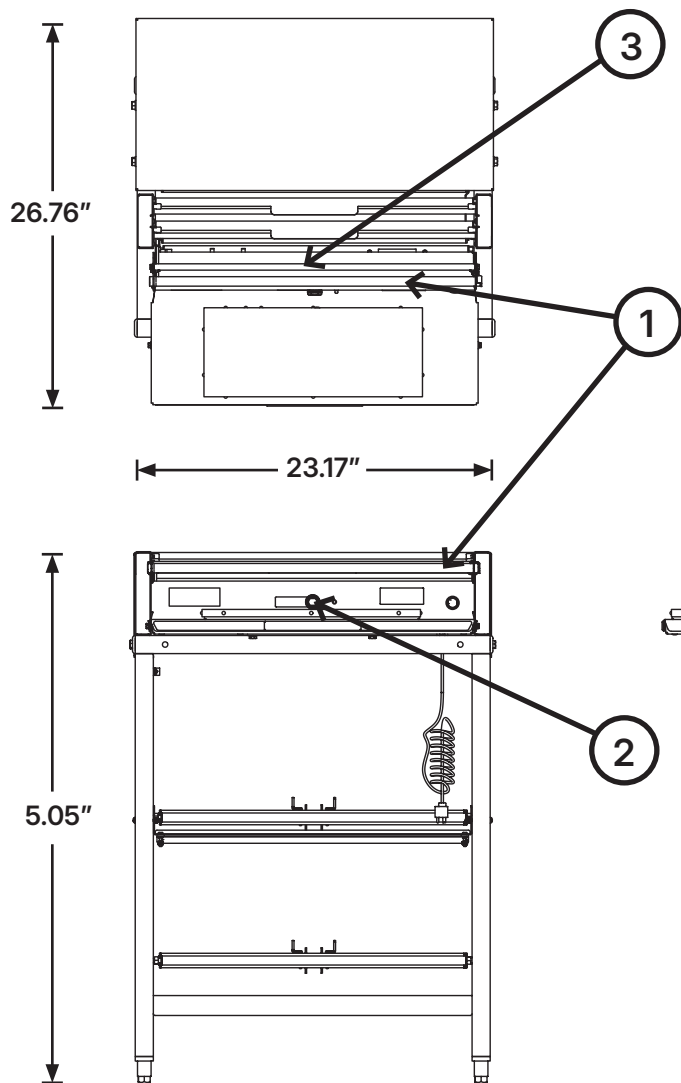
If you are unsure whether the issue is with the Seal Plate or the IR Sensor, please contact Customer Service for assistance at (216) 341-2022.

TROUBLESHOOTING

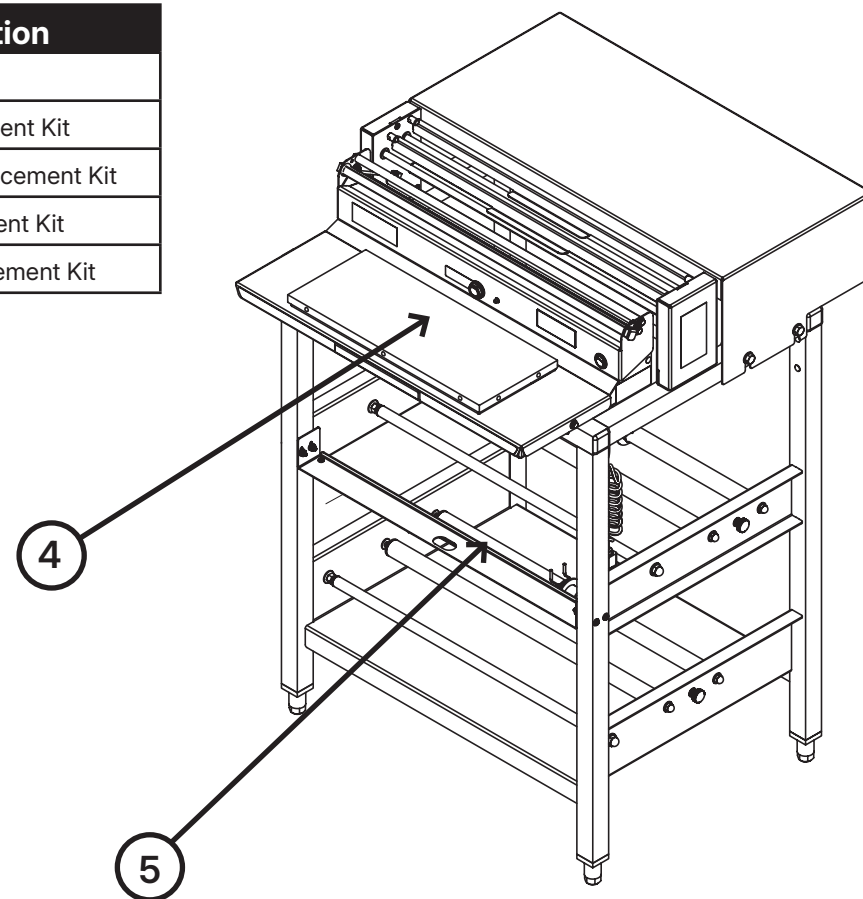
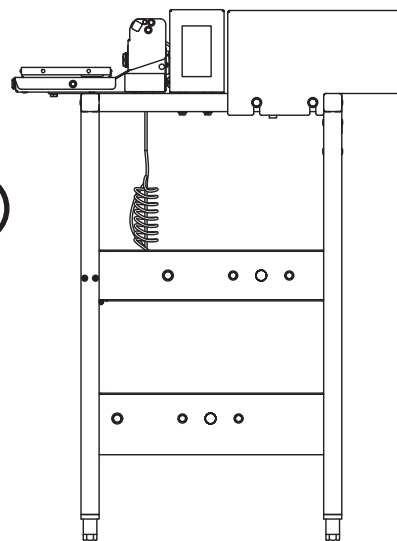
Symptom	Possible Solution
LED Diagnostic Guide for Circuit Board	Green LED System Status (17) Solid Green Light: The system is operating normally. Blinking Green Light: Indicates a short in the system. Diagnosing a Short Circuit: Unplug both the IR Sensor and the Photo Eye. Test the IR Sensor - Reconnect only the IR Sensor and look at the green light. - If the green light blinks → The IR Sensor is faulty. Replace the IR Sensor. - If the green light stays solid → The IR Sensor is good. Test the Photo Eye - Unplug the IR Sensor again. - Reconnect only the Photo Eye and look at the green light. - If the green light blinks → The Photo Eye is faulty. Replace the Photo Eye. - If the green light stays solid → The Photo Eye is good. No Green Light: The circuit board has failed and will need to be replaced.
	Red LED Power Indicator (18) Note: The Photo Eye needs to be blocked by an object (hand) in order to make the Red LED light illuminate. Red Light is On: Power is being supplied to the plate. Red Light is Off: Indicates a power issue. Check power connections.
	Amber LED Photo Eye Status (19) Amber Light On: Photo Eye is functioning properly. Amber Light Off: Photo Eye is either blocked or malfunctioning.



SERVICE PARTS INFORMATION



#	Part #	Description
1	1824-036	Film Cut-Off Rod
2	1872-186	Photo-eye Replacement Kit
3	6137-387	Film Black Rod Replacement Kit
4	6137-346	Seal Plate Replacement Kit
5	6137-380	Cradle Roller Replacement Kit

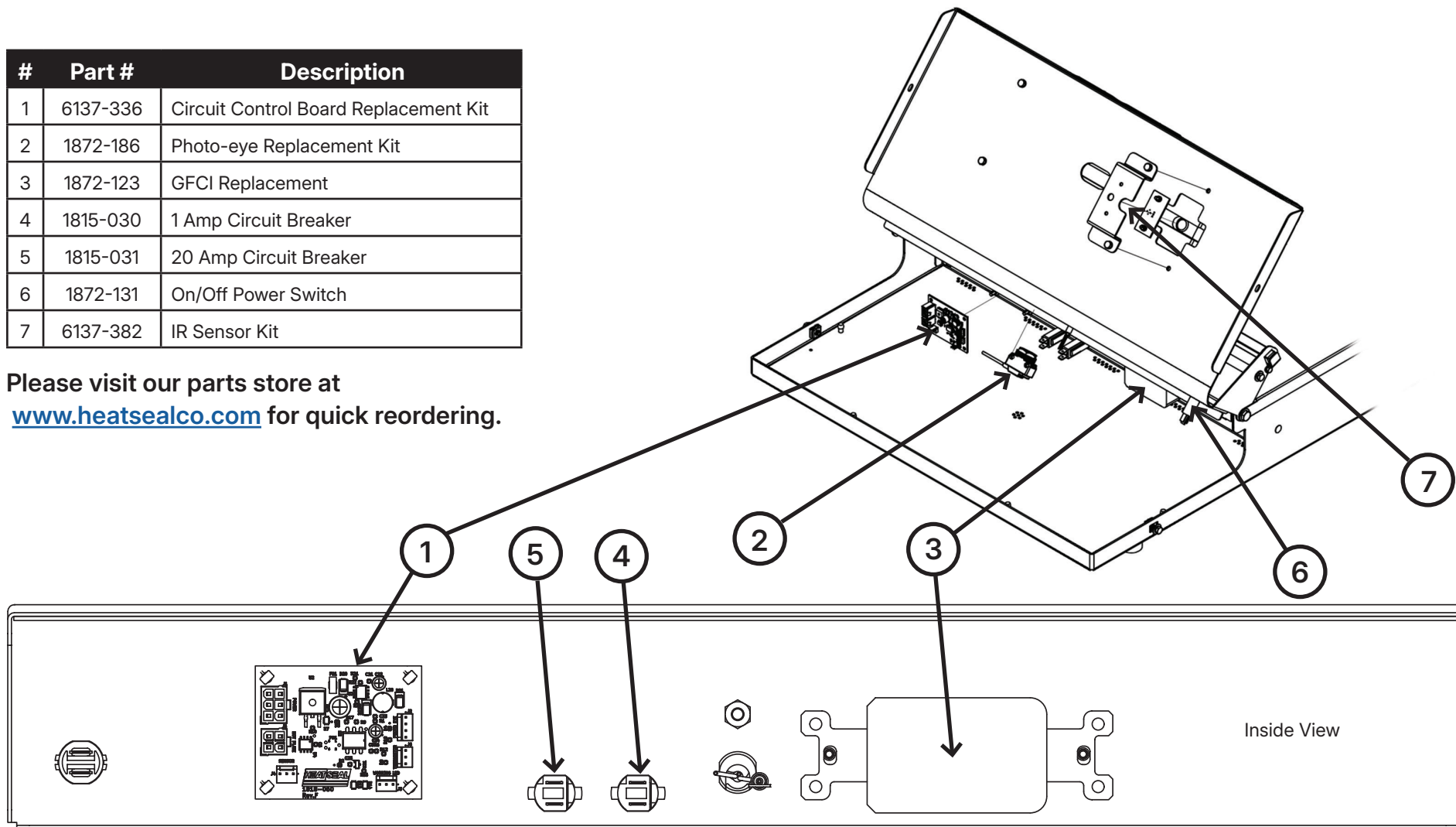


Please visit our parts store at www.heatsealco.com for quick reordering.

SERVICE PARTS INFORMATION

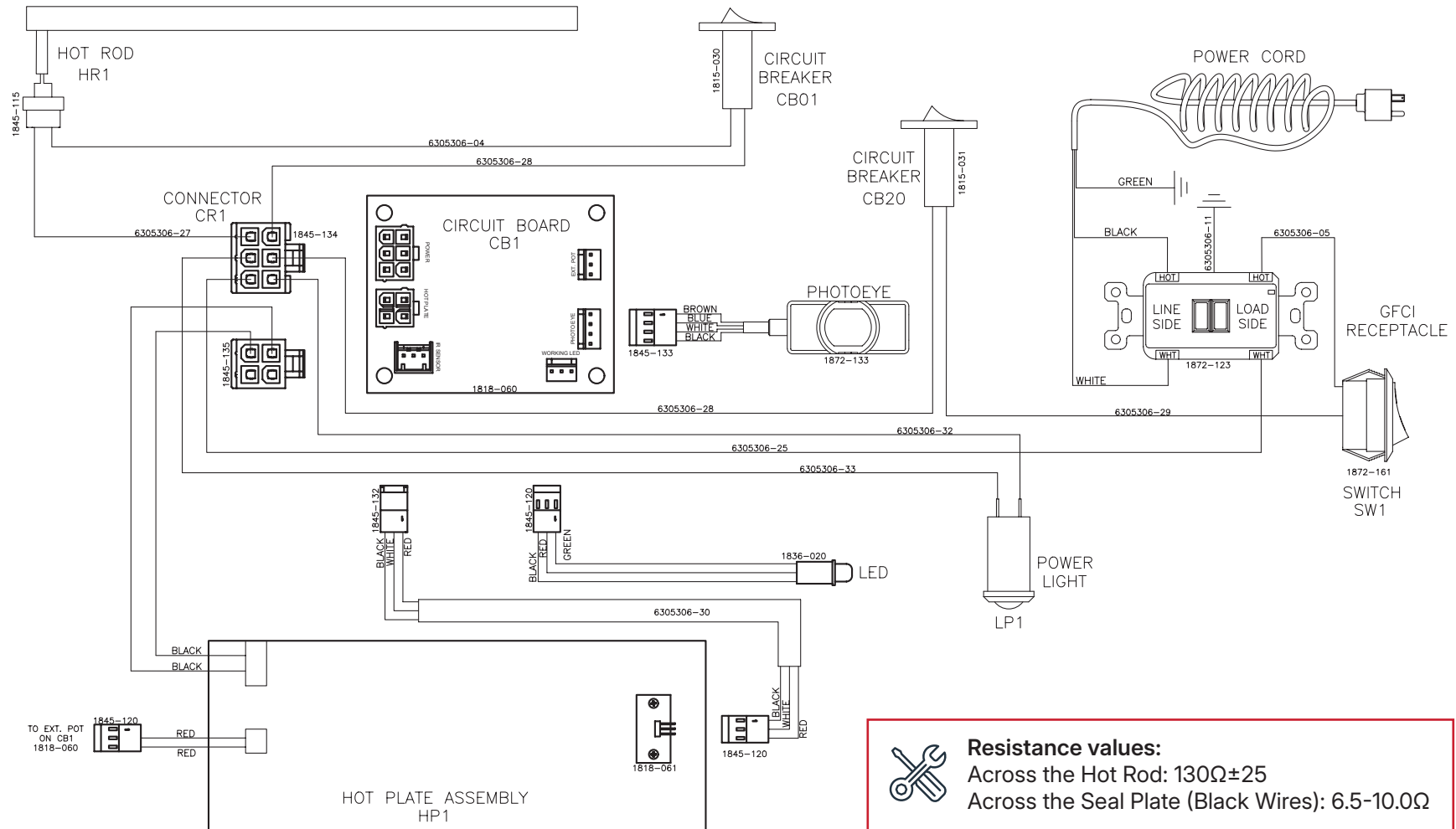
#	Part #	Description
1	6137-336	Circuit Control Board Replacement Kit
2	1872-186	Photo-eye Replacement Kit
3	1872-123	GFCI Replacement
4	1815-030	1 Amp Circuit Breaker
5	1815-031	20 Amp Circuit Breaker
6	1872-131	On/Off Power Switch
7	6137-382	IR Sensor Kit

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CONTROL BOARD ASSEMBLY

Tech Cheat Sheet





Contact Us

Heat Seal LLC - 4922 East 49th Street, Cleveland, OH 44125

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10.21.2025