



Enodis

INSTALLATION & PARTS AND SERVICE MANUAL

POP-2/4

POP-UP TOASTER



The POP-2/4 Pop-Up Toaster is designed to allow the operator to toast a wide variety of bread products. The wide mouth opening (1") will accommodate various thicknesses of bread, from thin sliced to Texas toast.

Each of the two toasting slots can hold one or two slices of bread and the self-centering toast guides assure each slice, regardless of thickness, will be perfectly toasted, time and time again. All controls are located on the front toaster panel.

The POP-2/4 is engineered for efficient, dependable service throughout the years. Like any piece of fine equipment with moving parts and broad temperature ranges, physical wear can take its toll. When this happens, the information found in this manual will prove helpful.

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OPERATING INSTRUCTIONS

Due to the commercial stainless steel construction, you may notice that a “cold” toaster requires more toasting time than a “warmed-up” toaster. Our specially designed electronic controls will automatically adjust to these conditions, altering the toast cycle for either frequent or infrequent use. The more the unit is used and the stainless steel warms up, the faster it will toast until the minimum cycle rate is reached. Once you find the optimum setting for your toasting requirements, there is no need to continually adjust the setting.

NOTE: THIS TOASTER IS NOT DESIGNED FOR BAGELS. If your toast production varies - white bread to rye to sourdough - it may be necessary to make adjustments for the various products using the heat setting (0-10). We suggest a few test cycles with various types of products to determine your desired settings. A midpoint number is recommended for your initial setting. If you desire darker toast, rotate the knob to a higher number, or rotate to a lower number for lighter toast. Some experimentation may be required to obtain specific results for individual products. (Dryness of bread, voltage differences, and sugar content all will have an effect on toast color. Whole grain, rye, and other breads with lower sugar content will require a higher setting to produce medium toast.)

1. Place bread product into the slots. NOTE: One or two slices (of the same thickness) may be placed in each individual toasting slot. If toasting two different products at the same time, be sure each slot is loaded with a similar thickness product.
2. Depress Toast lever(s).
3. When toasting cycle is completed, finished product will automatically be released. Remove immediately to prevent drying out.

CAUTION: Operation of this unit without product in the toasting slots will cause excess heat to be absorbed by the electrical components rather than the intended bread product. This will significantly reduce the operational life of these components.

CLEANING INSTRUCTIONS

CAUTION: UNPLUG TOASTER AND ALLOW TO COOL BEFORE CLEANING

The POP-2/4 is designed for easy cleaning. The lustrous outer surfaces need nothing more than a daily wiping with a soft cloth. The crumb tray may be removed and wiped with a soft damp cloth to remove any crumb build-up.

DO NOT OPERATE THE UNIT WITHOUT A CRUMB TRAY

Do not use abrasive cleaners on any part of the toaster. This will cause damage to the finish of the unit.

INSTALLATION

Install the POP-2/4 in the most convenient location for ease of cleaning, maintenance, and general operation. Avoid installing in locations with drafts, close proximity to grease or vapor-producing appliances, or other high ambient heat equipment. Allow approximately 1" clearance on sides and back of unit for proper air circulation. Allow sufficient overhead clearance for proper operation of this unit.

WARNING:

This toaster must be plugged into the proper voltage which is specified on the data plate located on the back panel of the toaster. Use of any other voltage or altering of the plug or cord may damage the unit, will void the warranty, and may cause injury.

ELECTRICAL SPECIFICATIONS

VOLTAGES (VOLTS AC)	AMPERAGE AMPS	MAX. POWER (KW)	FREQUENCY (HZ)	PHASE	CORD (SUPPLIED)	PLUG (SUPPLIED)
120	14.8	1.8	50/60	1	3'	NEMA 5-15P
208	9.1	1.9	50/60	1	3'	NEMA 6-15P
220	9.6	2.1	50/60	1	3'	NEMA 6-15P*
240	10.4	2.5	50/60	1	3'	NEMA 6-15P*



* NOTE: Non- U.S.A. models supplied without plug

The circuit on which the receptacle is installed must be of adequate wiring size and sufficient capacity to meet the requirements indicated on the unit data plate and in conformance with the National Electrical Code and local electrical installation codes. Failure to meet these requirements will void the warranty.

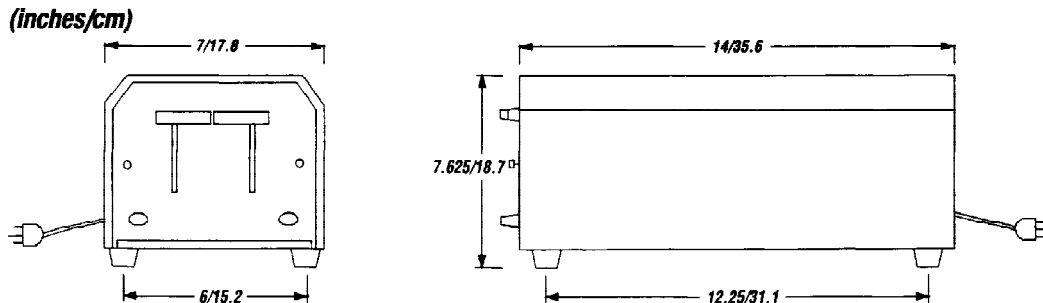
SPECIFICATIONS (Standard Models)

PRODUCT #	VOLTAGE/AMPS			KW	NET WT.* lbs/kg	SHIP WT.* lbs/kg	SHIP VOL.* cu ft/cu m
	120V	208V	240V				
726000	14.8	—	—	1.8	13/5.9	13/6	1.0/0.02
726001	—	9.6	—	2.1	13/5.9	13/6	1.0/0.02
726001	—	—	10.4	2.5	13/5.9	13/6	1.0/0.02

*Measurements are approximate.

120V	208V/240V
	
NEMA 5-15P	NEMA 6-15P
3-foot cord and plug configuration	

MECHANICAL DIMENSIONS



WARRANTY

The POP-2/4 toaster is guaranteed to be free of defects in material and workmanship for a period of one (1) year from date of purchase or 18 months from date of shipment from the factory, whichever comes first, provided that the equipment is utilized to the manufacturer's recommendations and instructions.

The POP-2/4 is warranted on an exchange basis only. Please contact our Service Department at 1-800-701-2992 for information.

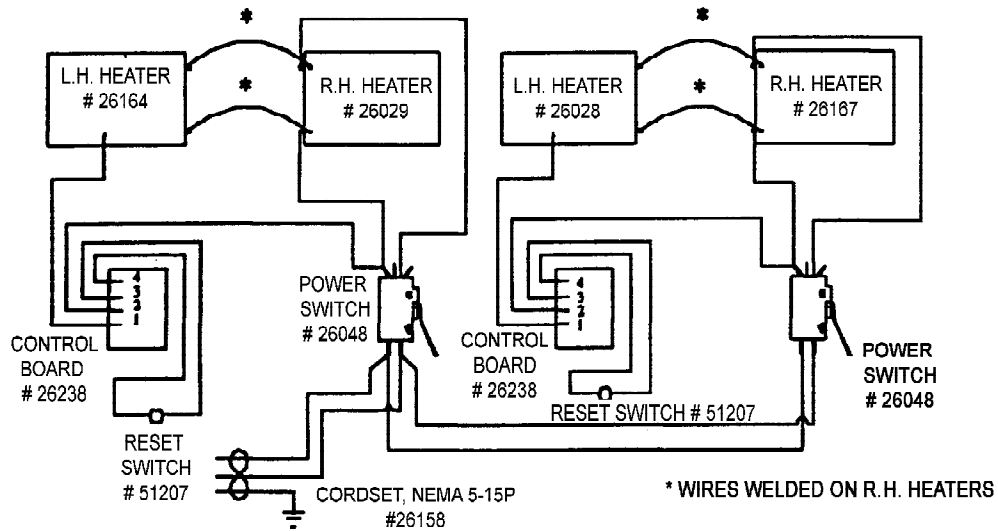
A warranty registration card is provided with each toaster. Complete all requested information on this card and return to Merco Savory, Inc. immediately to insure proper warranty registration. Damage resulting from accident, alterations, misuse, abuse, improper installation or failure to follow use and care instructions will void the warranty.

**The warranty is applicable in the Continental U.S.A. and Hawaii only.

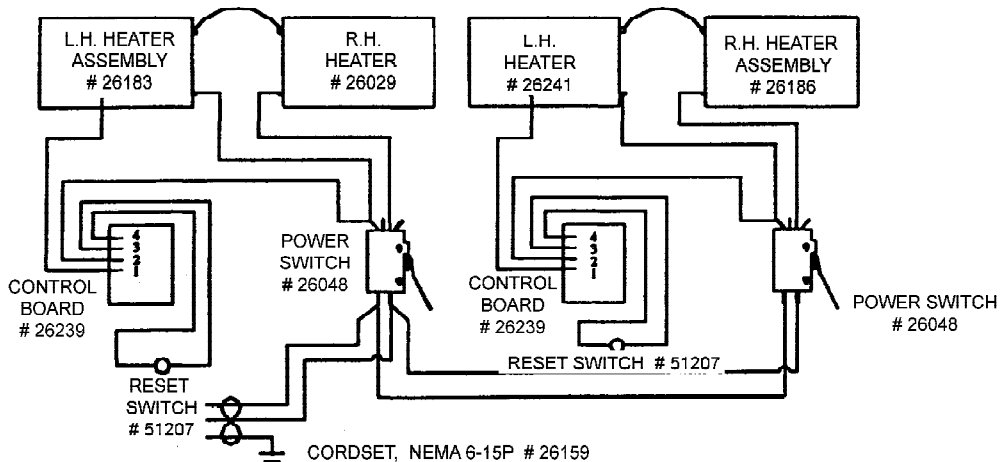
SEQUENCE OF OPERATIONS

On the POP2/4 toaster, the sequence of operations is separate but identical for both left and right toasting slots. Power is permanently supplied to the power switch. Depressing the toast arm closes the power switch which supplies voltage to the control board. The control board energizes an electro magnet which holds the toast arm in a down position. The control board also supplies power to the heating elements. Adjusting the Light/Dark knob will change the amount of time that the elements are energized and the toast arm is held in the down position. At the end of the cooking cycle, the electro magnet and the heating elements and de-energized, along with the toast arm being returned to the up position. Depressing the manual release button during the toast cycle de-energizes power to the control board and returns the toaster to the starting position.

POP-2/4 WIRING DIAGRAM 120V Revised2/4/91 (After Serial Number PU/4999)



POP-2/4 WIRING DIAGRAM 208/220/240V (After Serial Number PU/4999)



REMOVAL, INSTALLATION AND ADJUSTMENTS

CAUTION:

UNPLUG UNIT AND ALLOW TO COOL BEFORE ATTEMPTING ANY SERVICE PROCEDURES IN THIS MANUAL

A. CASE COVER / CONTROL PANEL

1. Carefully place toaster upside down on a non-abrasive surface
2. Remove crumb tray.
3. Pry our rubber foot plugs adn use 1/3" nut driver to remove legs.
4. Push panel sides outward to gain clearance and slide out floor panel.
5. Push panel sides outward and lift out toaster chassis.
6. Unscrew both toast level handles and remove.
7. Remove one screw securing control panel to upper chassis.
8. Remove 2 screws securing control panel to lower chassis.
9. Gently pull control panel forward to gain access tothe inner workings.

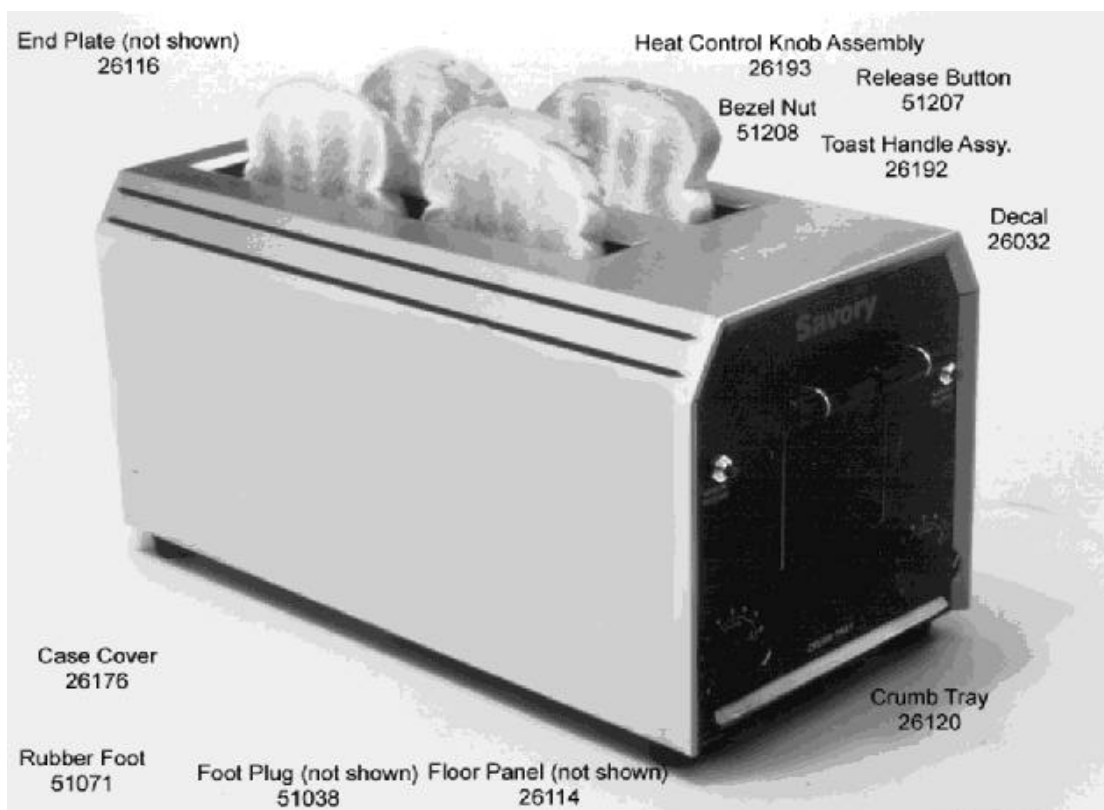


Figure 1

B. RELEASE BUTTON

1. Remove case cover adn control panel. (Section A)
2. Remove bezel nut and star washer from release button.
3. Push release button through panel and remove push terminals #3 and #4 from p.c. board.
4. When re-attaching new push terminals to p.c. board, polarity is not a factor. Refer to wiring diagram.
5. **IMPORTANT:** When installing new release button, make sure both wires are positioned behind p.c. board.

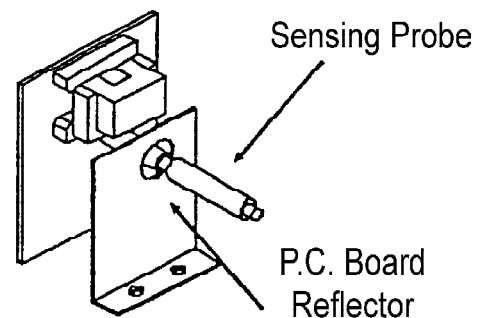


Figure 2

C. P.C. BOARD

1. Remove case cover and control panel. (Section A)
2. Remove knob from front of control panel. NOTE: The control knob on the front panel consists of two parts the knob and the knob cap. The cap must be snapped off before removing the knob. Use a spanner wrench to loosen the knob and pull off the shaft.
3. Remove wire connections from the p.c. board.
4. Remove the 4 mounting nuts and remove the p.c. board.
5. When installing the new p.c. board make sure the sensing probe is inserted through the opening in the p.c. board reflector before securing front panel to the chassis. (Figure 3)
6. To replace the knob on the front panel, turn the adjustment shaft fully counterclockwise. Slip on the knob making sure the white indicator mark on the knob is aligned with the lowest setting mark (Lighter) on the control panel. Hold the knob securely in position and tighten with a spanner wrench. Snap on the knob cap aligning the indicator marks on the knob and cap. (Figure 4)

POWER SWITCH

1. Remove the case cover and control panel. (Section A)
2. Remove wire connections from the p.c. board noting the proper orientation, and remove the front control panel.
3. Remove the black bushing from the toast lever mechanism. **IMPORTANT:** Mark the positioning of the bushing before removing.
4. Remove the 2 mounting screws and nuts from the switch.
5. Remove wire connections from the switch noting proper orientation. Refer to the wiring diagram
6. For units with slots in the mounting brackets, make sure the switch is fully forward in both slots.

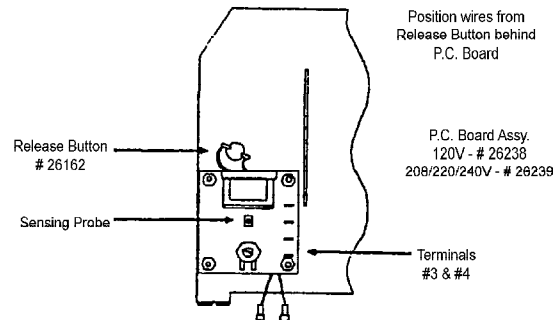


Figure 3

E. TOAST LEVER SPRING

1. Remove case cover. (Section A)
2. Remove wire connections from power switch.
3. Remove the grounding nut from the floor of the toaster.
4. Open cable holding clamps with pliers.
5. Remove the strain relief clamp securing the power cord.
6. Pull the power cord out through the busing on the back panel.

F. POWER CORD

1. Remove case cover. (Section A)
2. Unhook the spring from both ends.
3. Insert the new spring, hooking the bottom end first. Bring the top end of the spring through the small hole in the chassis cover and hook into the larger hole
4. Check for proper jumper wire positioning.

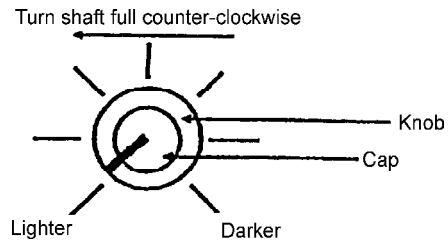


Figure 4

G. OUTER HEATER CARD ASSEMBLY

1. Remove case cover. (Section A)
 2. With pliers, straighten corresponding twist tabs on underside of toaster.
 3. On underside of toaster, remove corresponding sheet metal screw securing the end panel to the base.
 4. Slide rear exterior panel down the power cord, away from the toaster.
 5. When replacing left side heater card, remove strain relief bracket securing power cord to the inside panel.
 6. Unhook the two toast level springs from the chassis top.
 7. Straighten the 9 twist tabs on the chassis top.
 8. With retaining ring pliers, remove the upper retaining rings from both guide shafts.
 9. Remove upper chassis top.
 10. Remove upper and lower terminal connections from the outer heater card.
- NOTE: When replacing left side heater, remove tap wire.
11. Straighten twist tab securing the heater card assembly to the inner front end panel.
 12. On the inner rear end panel, straighten the center and corresponding twist tabs.
 13. Carefully pushing outward on both end panels, lift the heater card assembly upward.
 14. When installing new heater card assembly, make sure all internal components are positioned correctly at both ends of the toaster. (Figure 8)

WARNING
(FOR MODELS MANUFACTURED BEFORE 9/1/90)
WHEN ATTACHING WIRE CONNECTIONS< MAKE SURE
CARGLAS SLEEVING IS FULLY INSERTED THROUGH
OPENINGS AND COMPLETELY COVER TERMINAL ENDS.
FAILURE TO DO SO WILL CAUSE ELECTRICAL SHORTING.

G. Center Heater Card Assembly

1. Remove case cover. (Section A)
2. Remove 4 machine metal screws securing upper chassis.
3. Straighten twist tabs on upper chassis.
4. Disconnect both return springs at front of unit.
5. Remove both snap rings on upper chassis.
6. Slip off 2 heater jumper wires from chassis tabs.
7. Lift off upper chassis.
8. Lay unit on side. On underside of unit straighten center row of twist tabs.
9. Remove 2 screws securing end panel to lower chassis. (Figure 7)
10. Note: If thermal barriers are present on unit, remove the 4 screws securing barrier to end panel. Do not remove barriers. (Figure 5)
11. Straighten 3 twist tabs on end panel and the 1 tab on center front panel. Pull off end panel.
12. Disconnect wiring connections to center heater card assembly.
13. Slide out center card assembly.
14. When replacing individual heater cards on center heater card assembly, be sure to note correct positioning of ceramic spacers. These spacers **MUST** be in correct position when new cards are attached.
15. NOTE: Left side heater card has tap wire. When installing this card, be sure tap wire faces front of unit.
16. When replacing heater card assembly, be sure all spacer eyelets at ends of toast guides are in proper position.

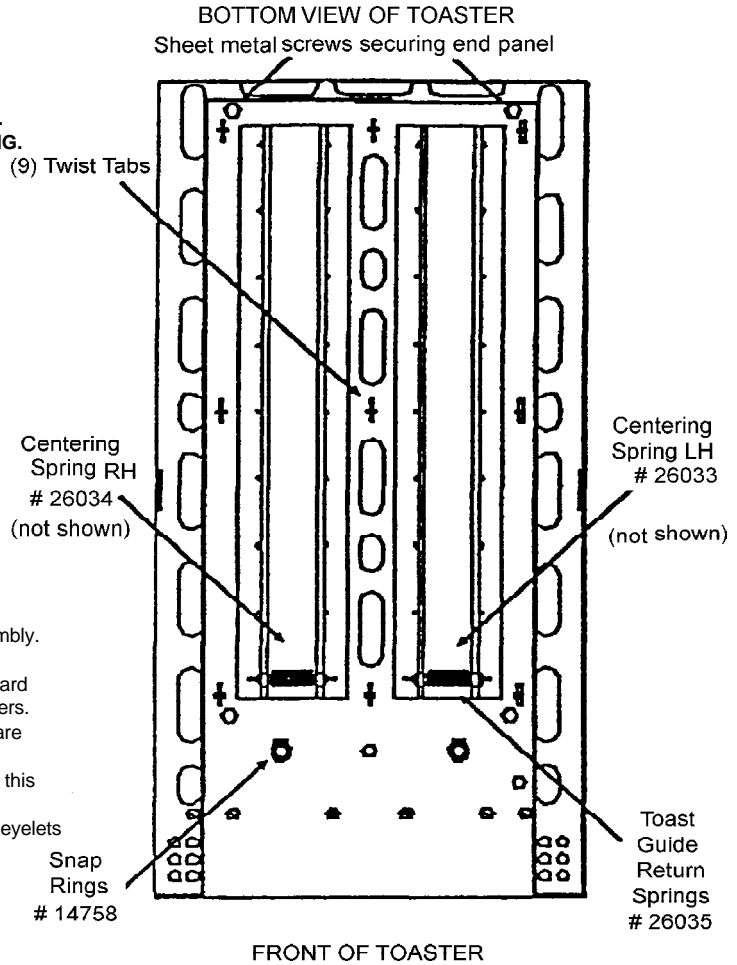
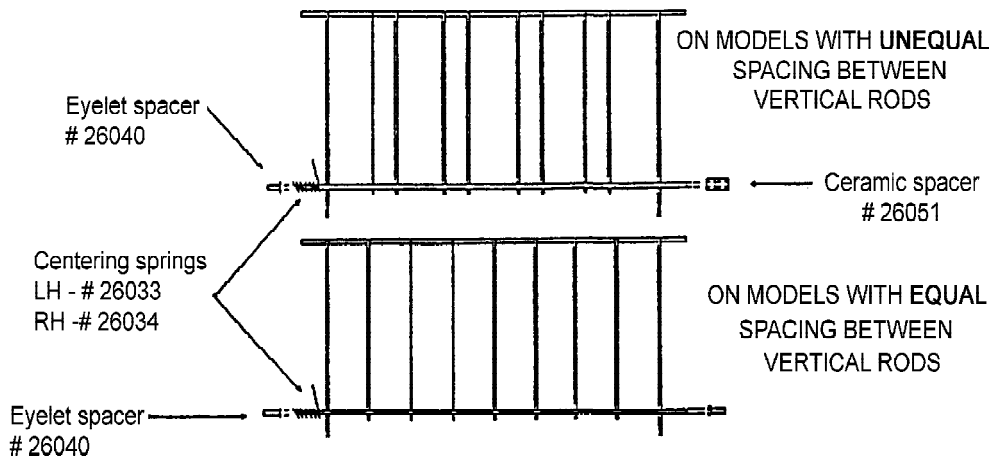


Figure 7

Figure 8

Proper eyelet spacer positioning on toast support guides.



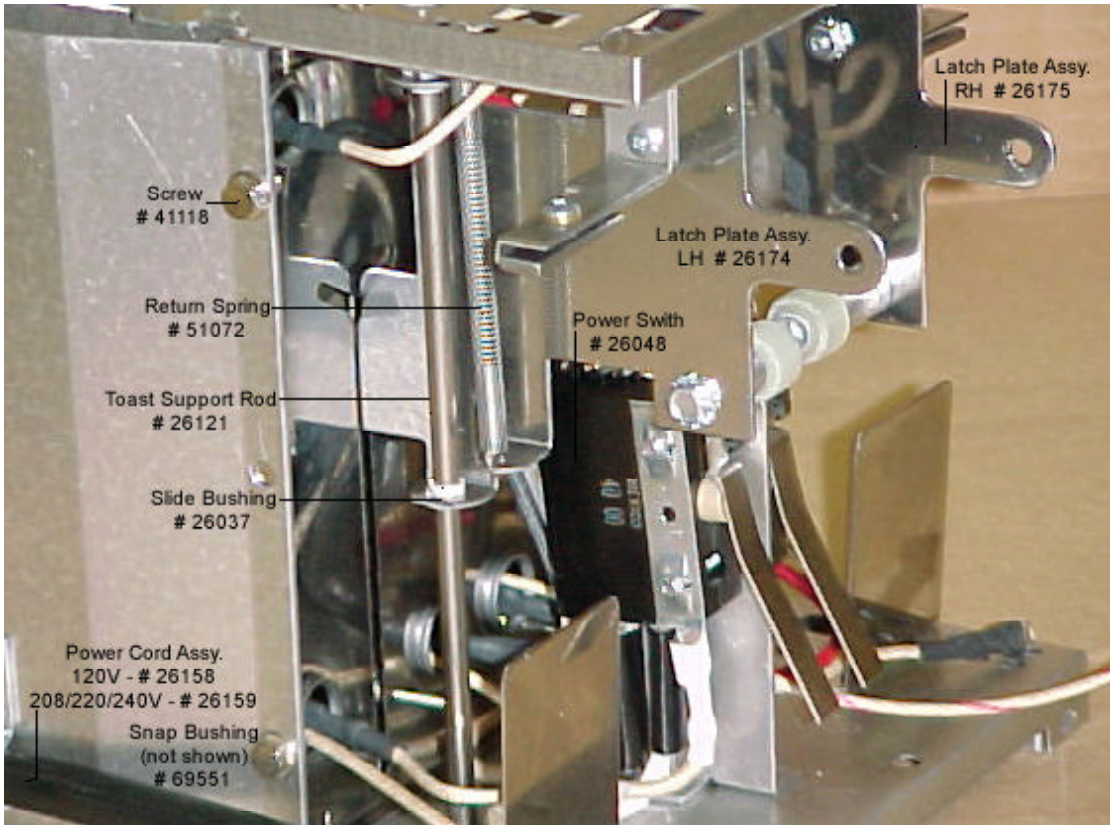


Figure 5

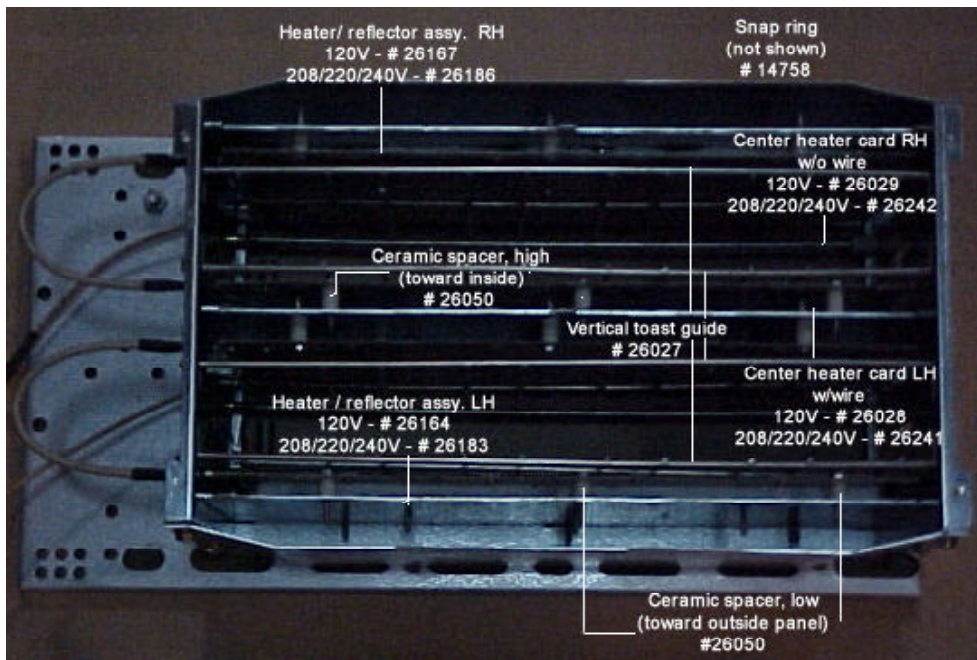


Figure 6