VT SERIES VERTICAL TOASTER (CHAIN DRIVE) SERVICE MANUAL



This equipment chapter is to be inserted in the Equipment Manual

MANUFACTURED EXCLUSIVELY FOR McDONALD'S[®] BY FRYMASTER, L.L.C. P.O. BOX 51000 SHREVEPORT, LOUISIANA 71135-1000 PHONE 1 (318) 865-1711

1 (800) 24 FRYER



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		Frymaster L.L.C., 8700 Line Avenue 71106, P.O. Box 51000, Shreveport, Louisiana 71135-1000 TEL 318-865-1711 EAX (Parts) 318-219-7140 (Tech Support) 318-219-7135	

FOR YOUR SAFETY DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

DO NOT OPERATE OR SERVICE THE VERTICAL TOASTER WITHOUT FIRST READING THIS MANUAL

DO NOT OPERATE THE VERTICAL TOASTER UNLESS IT HAS BEEN PROPERLY INSTALLED AND CHECKED.

DO NOT OPERATE THE VERTICAL TOASTER UNLESS ALL COVERS AND ACCESS PANELS ARE IN PLACE AND PROPERLY SECURED.

DO NOT ATTEMPT TO REPAIR OR REPLACE ANY COMPONENT OF THE VERTICAL TOASTER UNLESS ALL POWER TO THE UNIT HAS BEEN DISCONNECTED.

USE CAUTION WHEN SETTING UP, OPERATING, OR CLEANING THE VERTICAL TOASTER TO AVOID CONTACT WITH HEATED SURFACES.

HAZARD COMMUNICATION STANDARD (HCS) – THE PROCEDURES IN THIS MANUAL INCLUDE THE USE OF CHEMICAL PRODUCTS. THESE CHEMICAL PRODUCTS WILL BE PRINTED IN BOLD FACE, FOLLOWED BY THE ABBREVIATION (HCS) IN THE TEXT PORTION OF THE PROCEDURE. SEE THE HAZARD COMMUNICATION STANDARD (HCS) MANUAL FOR THE APPROPRIATE MATERIAL SAFETY DATA SHEET(S) (MSDS).

1. WARRANTY STATEMENT

The Frymaster Corporation makes the following limited warranties to the original purchaser only for this equipment and replacement parts:

1.1 WARRANTY PROVISIONS - VERTICAL TOASTER

- A. The Frymaster Corporation warrants all components against defects in material and workmanship for a period of 1 year.
- B. All parts, with the exception of belts, are warranted for 1 year after installation date of toaster. (Belts are consumable items.)
- C. If any parts become defective during the first year after installation date, Frymaster will also pay straight-time labor costs to replace the part, plus up to 100 miles/160 km of travel (50 miles/80 km each way).

1.2 PARTS RETURN

All defective in-warranty parts must be returned to a Frymaster Factory Authorized Service Center within 60 days for credit. After 60 days, no credit will be allowed.

1.3 WARRANTY EXCLUSIONS

This warranty does not cover equipment that has been damaged due to misuse, abuse, alteration, or accident such as:

- improper or unauthorized repair;
- failure to follow proper installation instructions and/or scheduled maintenance procedures as prescribed in your MRC cards;
- improper maintenance;
- damage in shipment;
- abnormal use;
- removal, alteration, or obliteration of the rating plate.

This warranty also does not cover:

- transportation or travel over 100 miles/160 km (50 miles/80 km each way), or travel time over two (2) hours.
- overtime or holiday charges;
- consequential damages (the cost of repairing or replacing other property which is damaged); loss of time, profits, use or any other incidental damages of any kind.

There are no implied warranties of merchantability or fitness for any particular use or purpose.

For international warranty, the above procedures apply, except that the customer is responsible for freight and duty charges.

2. PARTS ORDERING AND SERVICE INFORMATION

Parts orders may be placed directly with your local Frymaster Factory Authorized Service Center (FASC)/Distributor. A list of Frymaster FASCs was included with the unit when shipped from the factory. If you do not have access to this list, contact the Frymaster Service Department at 1-800-24-FRYER or 1-318-865-1711.

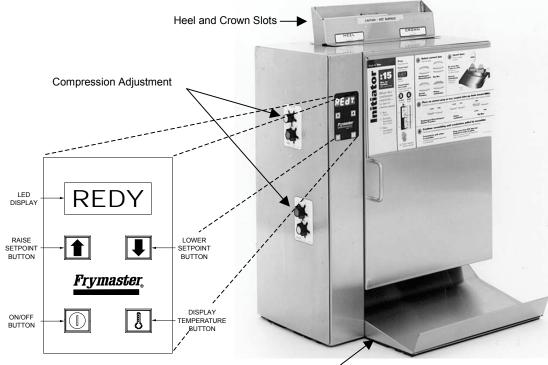
To speed up your order, the following information is required:

Model Number	
Serial Number	
Voltage	
Part Number	
Quantity Needed	

Service may be obtained by contacting your local FASC or Distributor. Service information may be obtained by calling the Frymaster Service Department. The following information will be needed in order to assist you quickly and efficiently.

Model Number	
Serial Number	
Nature of Problem	

Also include any other information which may be helpful in solving your service problem.



Heated Holding Tray

3. VERTICAL TOASTER OPERATIONAL DESCRIPTION

The Vertical Toaster is designed to produce fresh, uniformly toasted buns on an "as needed" basis.

The countertop-mounted unit consists of a cabinet, a computer, a heating element and a pair of conveyor assemblies.

When the unit is turned on, an electrical heating element (called a *platen*) is energized. The platen heats up to a programmed temperature referred to as the *setpoint*. At the same time, both conveyor assemblies are activated. When a bun is placed into one of the slots at the top of the cabinet, the conveyor belts gently carry it through the unit, with the cut face of the bun passing over the heated platen. As the bun passes over the platen, it is toasted. At the end of the process, the bun is deposited onto a heated holding tray that keeps it warm until it is used in a sandwich.

The computer allows the operator to adjust the setpoint to obtain desired toasting characteristics. Compression adjustment knobs also allow the operator to adjust the compression of heels and crowns as they pass through the toaster.

4. INSTALLATION/SETUP

Upon arrival, inspect the toaster for concealed damage. Immediately report any damage to the delivering freight company. Claims must be filed within 15 days after receipt of the unit.

Power Requirements:

ALL ELECTRICALLY OPERATED APPLIANCES MUST BE ELECTRICALLY GROUNDED IN ACCORDANCE WITH LOCAL CODES, OR IN THE ABSENCE OF LOCAL CODES, WITH THE NATIONAL ELECTRICAL CODE (ANSI/NFPA NO. 70-1990) OR THE CORRESPONDING NATIONAL CODE OF THE COUNTRY IN WHICH INSTALLED.

THIS APPLIANCE IS EQUIPPED WITH A GROUNDING PLUG FOR YOUR PROTECTION AGAINST SHOCK HAZARD AND MUST BE PLUGGED INTO A PROPERLY GROUNDED RECEPTACLE. DO NOT CUT OR REMOVE THE GROUNDING PRONG FROM THIS PLUG!

- Voltage: 208VAC or 240VAC depending on model ordered*
- Frequency: 60 Hz (other than European Union [CE] models) or 50 Hz (European Union models)
- Phase: Single
- Service: 30 Amp
- * Units can be configured for either 208VAC or 240VAC by connecting the wiring to the appropriate taps on the transformer and drive motor.

Setup:

Setup of the toaster consists of unpacking the unit, placing it on a sturdy table or countertop adjacent to a properly grounded AC outlet (208V or 240V, depending on model ordered), and plugging it in.

The unit is shipped with a programmed setpoint of 550°F (288°C). Verify that the crown and heel compression knobs on the left side of the toaster are set to the letters and numbers that are circled on the associated labels (see illustration on Page 4).

5. OPERATION

1. Press the ON/OFF D button. The word LOW will appear in the green LED display window. The unit will take about 10 minutes to reach operating temperature, at which time the display will change to REDY, indicating the toaster is ready for use.

- 2. Load buns into the appropriate slots (Heel or Crown) one at a time, with the cut faces toward the rear of the unit. The toasting conveyors will move the buns through the unit and deposit them on the heated holding tray.
- 3. Adjust the setpoint and bun compression as necessary to achieve desired toasting.

6. VIEWING AND ADJUSTING THE SETPOINT

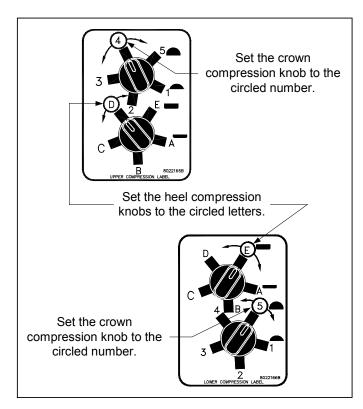
To view the platen temperature, press the button once. The temperature in degrees Fahrenheit will appear in the green LED display window. To view the current setpoint, press the button twice. The setpoint in degrees Fahrenheit will be displayed in the green LED display window. To toggle the display to Celsius, unplug the unit, then press and hold the button as the unit is plugged back in.

To change the setpoint:

- Turn the unit OFF (press the D button). Enter the setpoint programming mode by pressing the J,
 I, J, buttons in that order. The current setpoint will appear in the LED display. To increase the setpoint, press the button; to decrease it, press the J button.
- 2. When the desired setpoint is displayed, press the button once. Press the ON/OFF button. If the platen is within 20°F (11°C) of the setpoint, the display will show REDY. Otherwise, the display will show LOW or HIGH until the platen is within 20°F (11°C) of the setpoint, at which time the setpoint will change to REDY.

7. ADJUSTING BUN COMPRESSION

There are two pairs of compression adjustment knobs (one pair numbered 1-5, the other lettered A-E), as shown in the accompanying illustration.

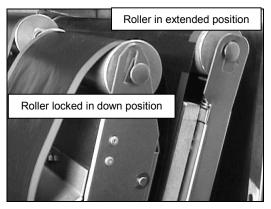


NOTE: The compression settings for your specific toaster may not be the same as those illustrated at left. Set the knobs to the positions indicated by the circled numbers and letters ON YOUR TOASTER.

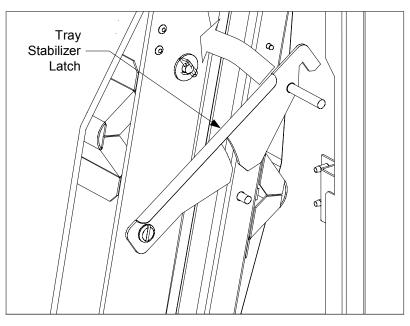
2. Settings A and 1 cause the greatest bun compression (that is, the thinnest bun after toasting).

8. CHANGING BELTS

- 1. Turn the unit off (press the ON/OFF D button) then unplug it. If the unit has been in operation, allow it to cool for about 1½ hours. **TIP:** Change belts in the morning, prior to turning the toaster on.
- 2. Remove the bun feeder, then remove the cover by lifting it straight up until it is clear of its retaining brackets.
- 3. Set the bun compression knobs to positions **E** and **5**.
- 4. Press down on the top roller and move it to the rear to lock it in the retracted (down) position. (NOTE: Each side of the roller must be locked down.)



5. Rotate the tray stabilizer latch upward to unlatch it.



- 6. Slip the old belt off the rollers and slip the new belt on. When the replacement belt has been properly positioned between the raised edges of its rollers, rotate the tray stabilizer latch to the latched position.
- 7. Press down and forward on the top roller to unlock it and allow it to extend.
- 8. Replace the cover, being careful as it is lowered over the cover interlock switch. Return the bun compression knobs to their previous settings.

9. OPERATOR TROUBLESHOOTING

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
PRO1 in LED display.	A. Indicates failure of main platen probe or associated circuitry.	A. Call FASC>
PRO2 in LED display.	A. Indicates failure of tray heater probe or associated circuitry.	A. Call FASC.
Bun conveyors do not start	A. Cover not properly installed.	A. Make sure cover is correctly positioned so that the cover interlock switch is depressed.
	B. Toaster not plugged in.	B. Plug toaster in.
pressed.	C. Store circuit breaker tripped.	C. Reset circuit breaker.
	D. Failed cover interlock switch, failed high limit, failed motor, or failed controller.	D. Call FASC.
Toasting is consistently too dark or too light.	A. Improper setpoint programmed.	A. If toasting is too dark, lower the setpoint and/or compression setting until desired toasting is achieved.
		If toasting is too light, increase setpoint and/or compression setting until desired toasting is achieved.
	A. Compression knobs set at different settings.	A. Make sure both knobs in each pair of knobs are at the same setting.
Bun compression is incorrect.	B. Compression knobs on an improper setting for desired compression.	B. Adjust the compression knobs to achieve desired compression. Moving them to a lower setting will increase compression. Moving them to a higher setting will decrease compression. Make sure both pairs of knobs are on the same setting.
	A. Compression knobs set at different settings.	A. Make sure both knobs in each pair of knobs are at the same setting.
Buns are toasting inconsistently.	B. Belt slippage.	B. Shut down and clean unit, paying particular attention to grooves in rollers and condition of belts.
	C. Incorrect belt speed, faulty platen heater, or faulty controller.	C. Call FASC.

10. SERVICE INFORMATION

10.1 INTRODUCTION

Vertical toasters manufactured for use in the European Community (CE) and those manufactured for use elsewhere are identical in most respects, but there are some important differences. The paragraphs that follow summarize the differences and provide a list of the parts that are unique to each model.

The most significant differences are in the electronic components. Units built for non-CE markets have a 60 Hz motor; those built for the CE market have a 50 Hz motor. CE and non-CE units also use different transformers, and CE units have a line filter built into the electrical power supply system. The line filter and cover are attached to the rear of the cabinet.

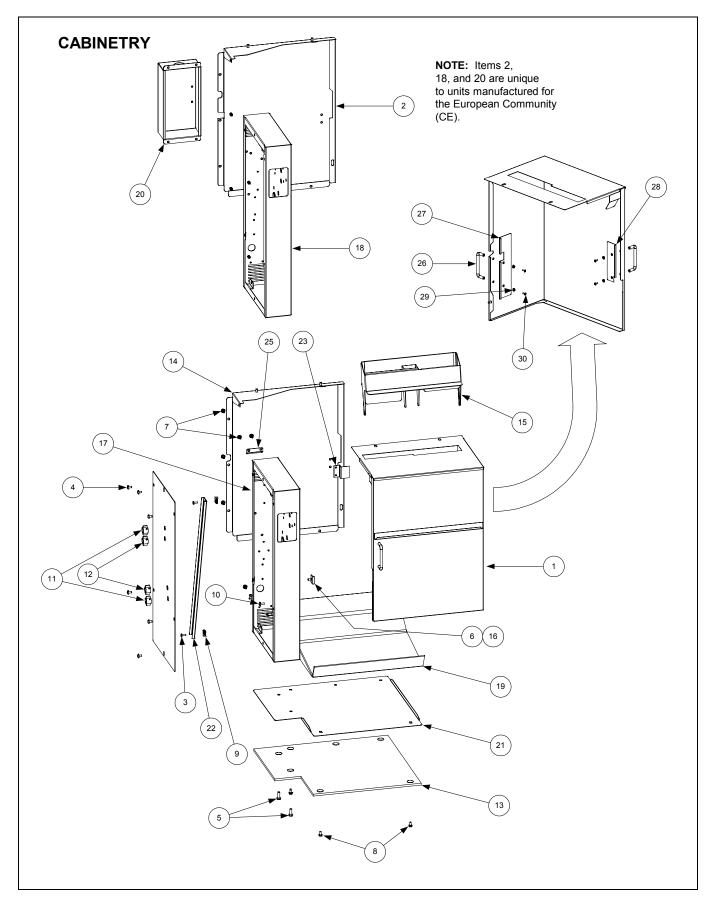
Because of the difference in the power cycle frequency (50 Hz vs. 60 Hz), CE units are equipped with 16-tooth drive sprockets. Non-CE units have 19-tooth drive sprockets. The smaller drive sprockets on the CE units maintain the correct belt speed even though the RPM of the 50 Hz motor is slightly slower than that of the 60 Hz motor.

In addition to the CE line filter and cover, CE units have a different cabinet back and component housing than Non-CE units to accommodate the filter and cover.

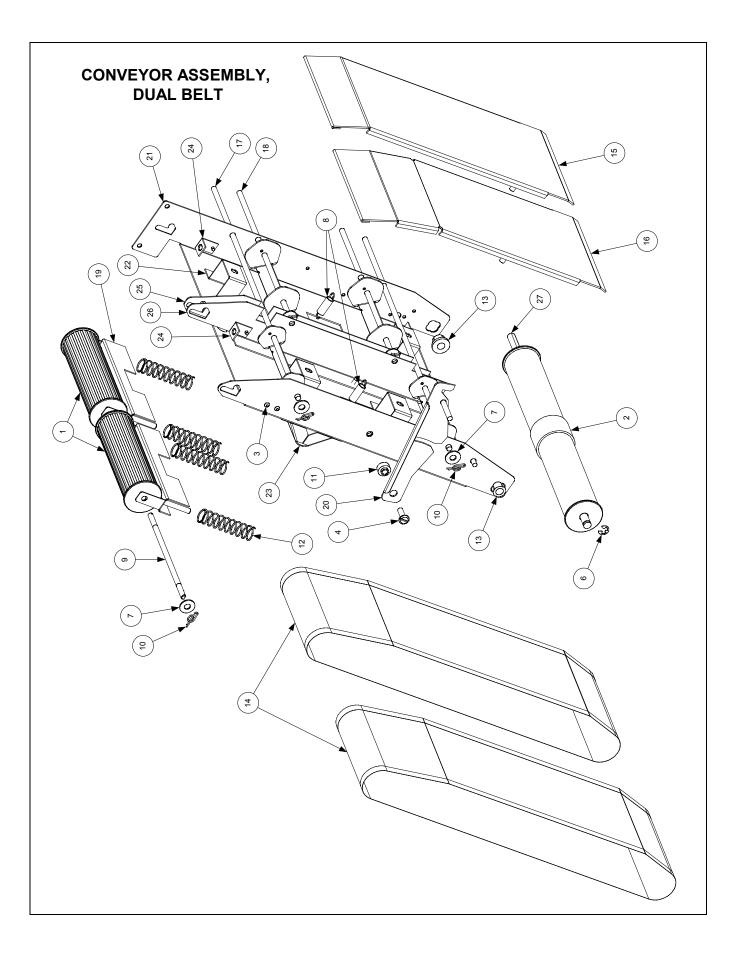
The table below identifies the key components that are unique to each configuration.

Coi	mponents Unique to CE Units	Components Unique to Non-CE Units	
P/N	Description	P/N	Description
807-2191	Transformer (208-240V/12V)	807-0979	Transformer (208-240V/12V)
826-1393	Transformer Fuse, 250V/3A	N/A	Not used.
106-0773	Transformer Bracket Assembly	N/A	Not used.
807-3472	Line Filter	N/A	Not used.
824-0896	Line Filter Cover	N/A	Not used.

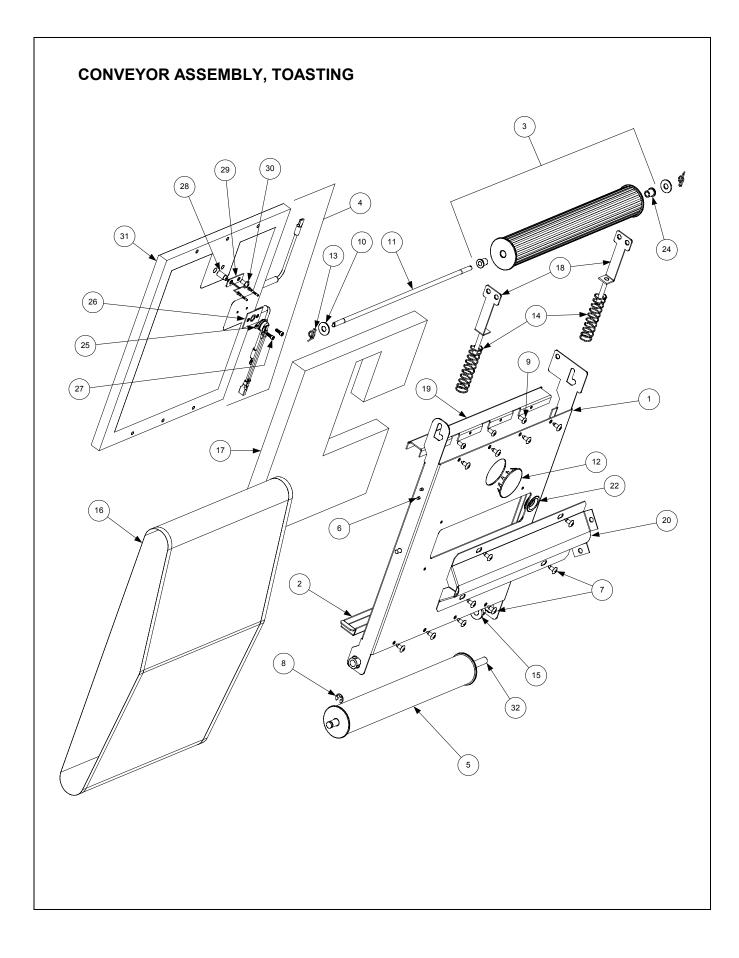
The illustrations in the parts list that follows also identify the CE and Non-CE components.



ITEM	PART #	COMPONENT
1	823-3139	Cover (does not include handles and stiffeners)
2 3	106-0786	Back Panel Assembly (used on CE units)
3	8090104	Screw, 8-32 x ½-inch Slotted Truss Head
4	826-1330	Screw, 10-32 x %-inch Slotted Truss Head (Pkg. of 25)
5	826-1389	Screw, ¼-20 x ¾-inch Hex Head (Pkg. of 10)
6	826-1376	Nut, 10-32 Keps Hex (Pkg. of 10)
7	826-1374	Screw, #10 x ¹ / ₂ -inch Hex Head (Pkg. of 25)
8	809-0434	Screw, #10 x ¾-inch Hex Washer Head
9	809-0448	Clip, Tinnerman
10	826-1379	Screw, #10 x ¹ / ₂ -inch Philips Truss Head (Pkg. of 10)
11	810-1662	Knob, Crown Compression Adjustment (Silver)
12	810-1692	Knob, Heel Compression Adjustment (Blue)
13	816-0406	Seal, Toaster Base
14	823-2758	Back Panel (used on non-CE units)
15	823-2793SP	Guide, Toast (Feeding Chute)
16	823-2812	Guide, Toaster Cover
17	823-3054	Housing, Component (used on non-CE units)
18	823-3196	Housing, Component (used on CE units)
19	824-0767	Pan, Toaster Dump
20	824-0896	Cover, Line Filter (used on CE units)
21	900-8436	Bottom, Toaster
22	900-8583	Brace, Component Housing
23	910-8584	Bracket, Tray Stabilizer Latch Support
24	910-8602	Cover, Component Housing
25	910-8625	Rail, Toaster Drip
26	810-1683	Handle, Cover
27	910-9458	Bracket, Cover Side Reinforcement
28	210-1232	Bracket, Cover Front Reinforcement
29	809-0184	Washer, #10 Lock
30	809-0107	Screw, 8-32 x ⅔-inch Round Slotted Head

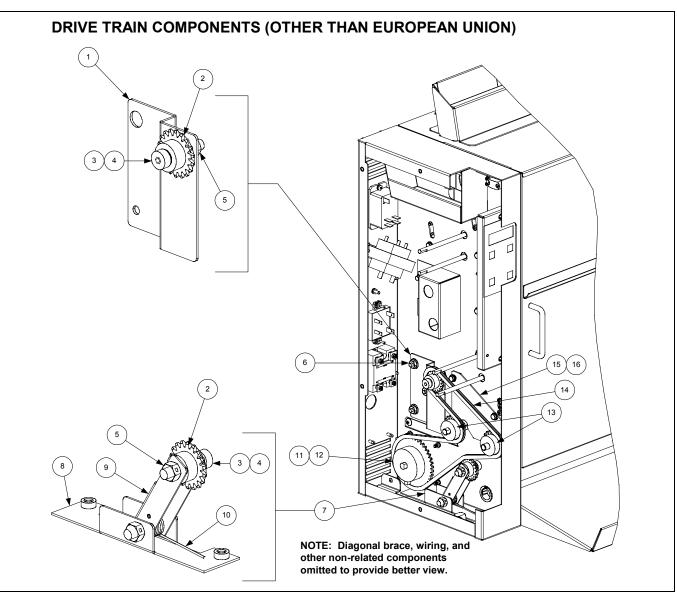


ITEM	PART #	COMPONENT	
1	806-9200	Roller Assembly, Dual Belt Idler	
2 3	806-9318	Roller Assembly, Dual Belt Drive (Includes Item 27)	
3	809-0083	Rivet, 1/8-inch Diameter Aluminum Pop	
4	809-0132	Screw, ¼-20 x ¾-inch Slotted Pan Head	
5*	826-1374	Screw, #10 x ¹ / ₂ -inch Hex Head (Pkg. of 25)	
6	809-0647	E-Ring	
7	809-0745	Washer, 1/4-inch Flat	
8	810-1672	Spring, Compression Plate	
9	810-1718	Shaft, Short Dual Belt Roller	
10	810-1776	Clip, Toaster Shaft Retention	
11	810-1802	Bushing, Tray Stabilizer Latch Support	
12	810-1818	Spring, 3.00-inch Long, 4.6 Lbs./Inch	
13	812-1402SP	Bushing	
14	816-0389	Belt, Dual Conveyor	
15	823-2719	Plate Assembly, VT Right Pressure	
16	823-2720	Plate Assembly, VT Left Pressure	
17	823-2722	Cam Assembly, VT Long	
18	823-2723	Cam Assembly, VT Short	
19	823-2798	Cover Assembly, VT Spring	
20	823-2838	Latch Assembly, VT Tray	
21	823-2860	Tray Assembly, Dual Belt	
22	900-8155	Bracket, Guide Rod	
23	910-8254	Brace, Dual Belt Tray	
24	910-8512	Bracket, Spring Guide Receiver	
25	911-8517	Divider, Dual Belt Tray Left	
26	912-8517	Divider, Dual Belt Tray Right	
27	810-1622	Shaft, Dual Belt Drive Roller (Integral component of Item 2)	
* Item 5 is obscured by Item 22. Item 5 secures Item 22 to Item 21.			

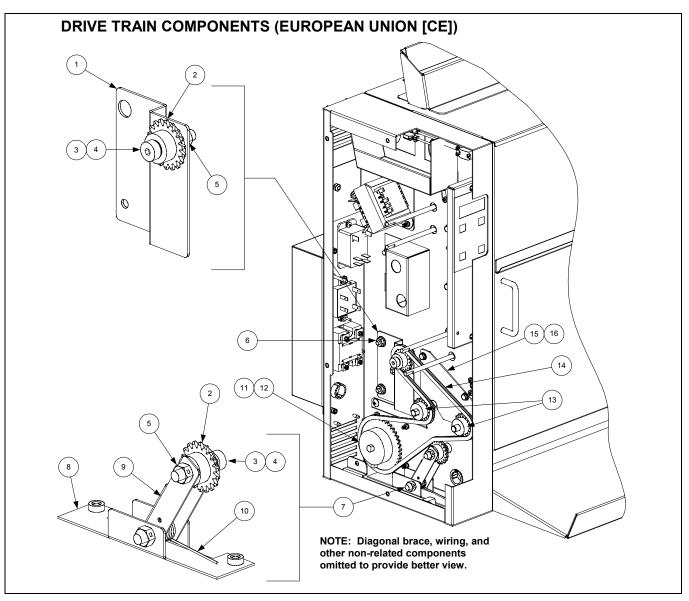


1106-0538Tray with Grommet, VT Platen Crumb Shield, Toasting Conveyor3806-9195Roller, VT Toasting Belt Idler4806-9196SPPlaten Assembly, VT5806-9199Roller, VT Toasting Belt Drive (includes Item 32)6809-0083Rivet, Aluminum 1/8-inch Diameter Pop7809-0266Screw, #10 x ½-inch Philips Truss Head8809-0647E-Ring9809-0650Screw, 10-32 x ¾-inch Button Socket Head10809-0745Washer, ¼-inch Flat11810-1726Shaft, Long Roller12810-1736Plug, 1.75-inch Stainless Button13810-1776Clip, Toaster Shaft Retention14810-1818Spring, 3-inches Long, 4.6 Lbs./Inch15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Bracket, Slide Assembly Receiver22810-1722Grommet, 5-inch 1.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 4)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8257Retainer, Heater Probe (Integral component of Item 4)27809-729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28 <t< th=""><th>ITEM</th><th>PART #</th><th>COMPONENT</th></t<>	ITEM	PART #	COMPONENT
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5806-9199Roller, VT Toasting Belt Drive (includes Item 32)6809-0083Rivet, Aluminum 1/8-inch Diameter Pop7809-0266Screw, #10 x ½-inch Philips Truss Head8809-0647E-Ring9809-0650Screw, 10-32 x ¾-inch Button Socket Head10809-0745Washer, ¼-inch Flat11810-1721Shaft, Long Roller12810-1736Plug, 1.75-inch Stainless Button13810-1776Clip, Toaster Shaft Retention14810-1818Spring, 3-inches Long, 4.6 Lbs./Inch15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch 1.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)<	3	806-9195	
6809-0083Rivet, Aluminum 1/8-inch Diameter Pop7809-0266Screw, #10 x ½-inch Philips Truss Head8809-0647E-Ring9809-0650Screw, 10-32 x ½-inch Button Socket Head10809-0745Washer, ¼-inch Flat11810-1721Shaft, Long Roller12810-1736Plug, 1.75-inch Stainless Button13810-1776Clip, Toaster Shaft Retention14810-1818Spring, 3-inches Long, 4.6 Lbs./Inch15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-812Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-1810Bushing, Teflon (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 4)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4) <td>4</td> <td>806-9196SP</td> <td>Platen Assembly, VT</td>	4	806-9196SP	Platen Assembly, VT
6809-0083Rivet, Aluminum 1/8-inch Diameter Pop7809-0266Screw, #10 x ½-inch Philips Truss Head8809-0647E-Ring9809-0650Screw, 10-32 x ½-inch Button Socket Head10809-0745Washer, ¼-inch Flat11810-1721Shaft, Long Roller12810-1736Plug, 1.75-inch Stainless Button13810-1776Clip, Toaster Shaft Retention14810-1818Spring, 3-inches Long, 4.6 Lbs./Inch15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-812Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 4)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4) </td <td>5</td> <td>806-9199</td> <td>Roller, VT Toasting Belt Drive (includes Item 32)</td>	5	806-9199	Roller, VT Toasting Belt Drive (includes Item 32)
8809-0647E-Ring9809-0650Screw, 10-32 x %-inch Button Socket Head10809-0745Washer, ¼-inch Flat11810-1721Shaft, Long Roller12810-1736Plug, 1.75-inch Stainless Button13810-1776Clip, Toaster Shaft Retention14810-1818Spring, 3-inches Long, 4.6 Lbs./Inch15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x %-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen,		809-0083	Rivet, Aluminum 1/8-inch Diameter Pop
9809-0650Screw, 10-32 x %-inch Button Socket Head10809-0745Washer, ¼-inch Flat11810-1721Shaft, Long Roller12810-1736Plug, 1.75-inch Stainless Button13810-1776Clip, Toaster Shaft Retention14810-1818Spring, 3-inches Long, 4.6 Lbs./Inch15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x %-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)		809-0266	Screw, #10 x ½-inch Philips Truss Head
10809-0745Washer, ¼-inch Flat11810-1721Shaft, Long Roller12810-1736Plug, 1.75-inch Stainless Button13810-1776Clip, Toaster Shaft Retention14810-1818Spring, 3-inches Long, 4.6 Lbs./Inch15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 4)26910-8637Spacer, High-Limit (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x %-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)		809-0647	E-Ring
11810-1721Shaft, Long Roller12810-1736Plug, 1.75-inch Stainless Button13810-1776Clip, Toaster Shaft Retention14810-1818Spring, 3-inches Long, 4.6 Lbs./Inch15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	9	809-0650	Screw, 10-32 x ¾-inch Button Socket Head
12810-1736Plug, 1.75-inch Stainless Button13810-1776Clip, Toaster Shaft Retention14810-1818Spring, 3-inches Long, 4.6 Lbs./Inch15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)28807-3247Probe, Heater Probe (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x 3/e-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	10	809-0745	Washer, ¼-inch Flat
13810-1776Clip, Toaster Shaft Retention14810-1818Spring, 3-inches Long, 4.6 Lbs./Inch15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	11	810-1721	Shaft, Long Roller
14810-1818Spring, 3-inches Long, 4.6 Lbs./Inch15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	12	810-1736	Plug, 1.75-inch Stainless Button
15812-1402SPBushing, Roller16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x 3%-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	13	810-1776	Clip, Toaster Shaft Retention
16816-0379Belt, Toasting17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	14	810-1818	Spring, 3-inches Long, 4.6 Lbs./Inch
17816-0403Insulation, Platen18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x 3/e-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	15	812-1402SP	Bushing, Roller
18823-2726Slide Assembly, Belt Tension19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	16	816-0379	Belt, Toasting
19910-8246Guide, Crumb Shield20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	17	816-0403	Insulation, Platen
20910-8254Brace, VT Platen Tray21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x 3/8-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	18	823-2726	Slide Assembly, Belt Tension
21*910-8512Bracket, Slide Assembly Receiver22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	19	910-8246	Guide, Crumb Shield
22810-1722Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x 1/4-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x 3/8-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	20	910-8254	Brace, VT Platen Tray
23810-2013Roller, VT Drive (Integral component of Item 3)24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	21*	910-8512	Bracket, Slide Assembly Receiver
24810-1810Bushing, Teflon (Integral component of Item 3)25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)		810-1722	Grommet, .5-inch I.D. x 1.05-inch O.D. (Integral component of Item 1)
25807-3037Thermostat, High-Limit (Integral component of Item 4)26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	23	810-2013	Roller, VT Drive (Integral component of Item 3)
26910-8637Spacer, High-Limit Thermostat (Integral component of Item 4)27809-0729Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)		810-1810	Bushing, Teflon (Integral component of Item 3)
 27 809-0729 Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4) 28 807-3247 Probe, Heater (Integral component of Item 4) 29 910-8757 Retainer, Heater Probe (Integral component of Item 4) 30 826-1330 Screw, 10-32 x ¾-inch Slotted Truss Head (Integral component of Item 4) 31 810-1658 Platen, 5000W (Integral component of Item 4) 		807-3037	
28807-3247Probe, Heater (Integral component of Item 4)29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x %-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	26	910-8637	
29910-8757Retainer, Heater Probe (Integral component of Item 4)30826-1330Screw, 10-32 x %-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)	27	809-0729	Capscrew, 6-32 x ¼-inch Socket Head (Integral component of Item 4)
30826-1330Screw, 10-32 x %-inch Slotted Truss Head (Integral component of Item 4)31810-1658Platen, 5000W (Integral component of Item 4)		807-3247	
31 810-1658 Platen, 5000W (Integral component of Item 4)		910-8757	
		826-1330	
32 810-1622 Shaft, Drive Roller (integral component of Item 5)			
* Obscured by Item 1. See Item 24 on Page 10 for illustration.	32		

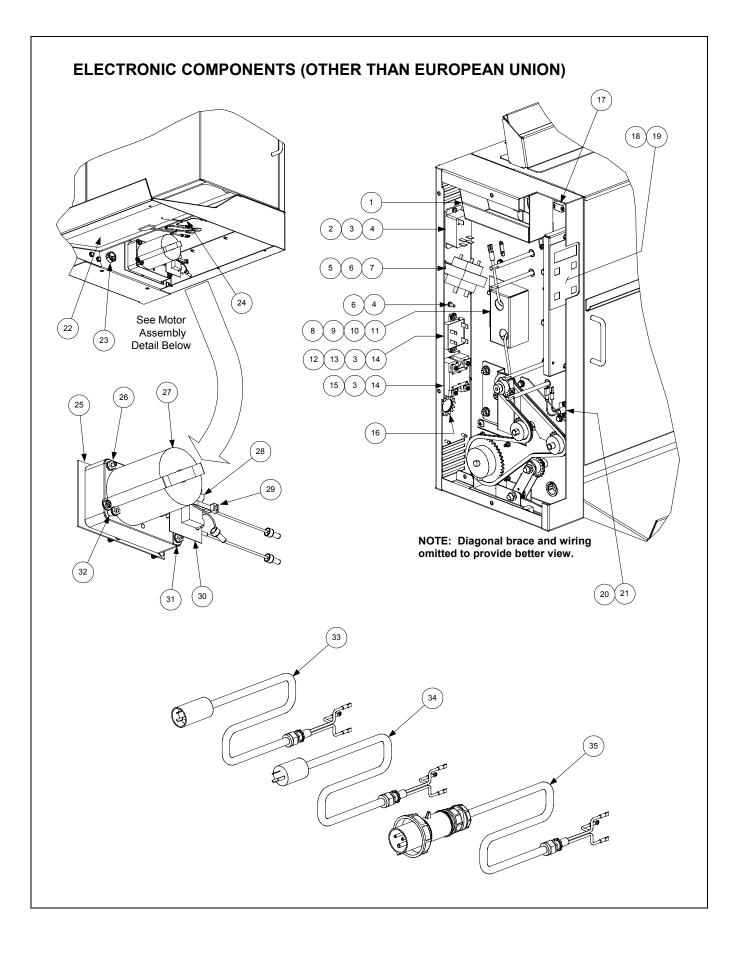
^t Obscured by Item 1. See Item 24 on Page 10 for illustration.



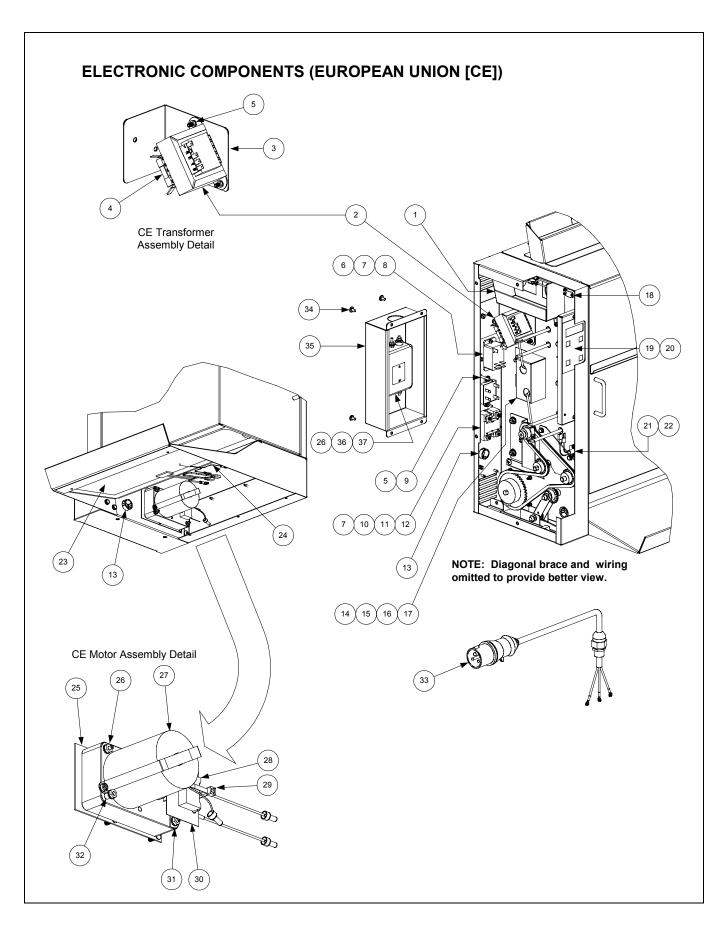
ITEM	PART #	COMPONENT
1	200-4849	Bracket, VT Idler Tensioner (for units with retrofitted Oriental motor, use 200-5305)
2	810-1690	Sprocket w/Bushing, Idler
3	809-0632	Screw, 3/2-inch x 1-inch Shoulder Socket Head
4	809-0792	Washer, .382-inch I.D. x .507-inch O.D. Teflon (2 required)
5	809-0794	Locknut, 5/16-18
6	826-1368	Nut, 1/4-20 Serrated Flange (Pkg. of 10)
7	106-0444	Tensioner Assembly, VT Belt
8	106-0462	Bracket, VT Tensioner
9	200-0159	Arm, VT Tensioner
10	812-1457	Spring, VT Tensioner
11		Sprocket, Drive
	810-2693	21-Tooth (for units converted to 16-Second Belt Speed)
	810-2609	35-Tooth (for units with original 13-Second Saia-brand motor)
	810-2694	25-Tooth (for units with retrofitted 13-Second Oriental-brand motor kit)
12	809-0730	Screw, ¹ / ₄ -20 Square Head Set
13	810-1728	Sprocket, 19-Tooth
14	810-1979	Chain, VT Drive
15	200-0239	Brace, VT Bushing
16	826-1374	Screw, #10 x ¹ / ₂ -inch Hex Head (Pkg. of 25)



ITEM	PART #	COMPONENT
1	200-4849	Bracket, VT Idler Tensioner (for units with retrofitted Oriental motor, use 200-5305)
2	810-1690	Sprocket w/Bushing, Idler
3	809-0632	Screw, ¾-inch x 1-inch Shoulder Socket Head
4	809-0792	Washer, .382-inch I.D. x .507-inch O.D. Teflon (2 required)
5	809-0794	Locknut, 5/16-18
6	826-1368	Nut, 1/4-20 Serrated Flange (Pkg. of 10)
7	106-0444	Tensioner Assembly, VT Belt
8	106-0462	Bracket, VT Tensioner
9	200-0159	Arm, VT Tensioner
10	812-1457	Spring, VT Tensioner
11		Sprocket, Drive
	810-2693	21-Tooth (for units converted to 16-Second Belt Speed)
	810-1629	40-Tooth (for units with original 13-Second Saia-brand Motor)
	810-2694	25-Tooth (for units with retrofitted 13-Second Oriental-brand motor kit)
12	809-0730	Screw, ¹ / ₄ -20 Square Head Set
13	810-1865	Sprocket, 16-Tooth
14	810-1979	Chain, VT Drive
15	200-0239	Brace, VT Bushing
16	826-1374	Screw, #10 x ¹ / ₂ -inch Hex Head (Pkg. of 25)



ITEM	PART #	COMPONENT	
1	200-0179	Tray, VT Crumb	
2	807-3021	Relay, 30A 12VDC DPST NO	
3	809-0702	Screw, 4-40 x ¾-inch Philips Head	
4	826-1366	Nut, 4-40 Keps Hex (Pkg. of 25)	
5	807-0979	Transformer, 208-240VAC/12VAC, 50/60 Hz, 43VA	
6	809-0104	Screw, 8-32 x ¹ / ₂ -inch Slotted Truss Head	
7	826-1368	Nut, 1/4-20 Serrated Flange (Pkg. of 10)	
8	900-8867	Cover, Terminal	
9	809-0132	Screw, ¼-20 x ¾-inch Slotted Pan Head	
10	826-1372	Nut, ¼-20 Grip Hex (Pkg. of 10)	
11	810-1722	Grommet, .5 ID x 1.05 OD	
12	807-3213	Relay, Solid State 5A 3/16 Control Terminals	
13	826-1359	Screw, 4-40 x ¾-inch Slotted Round Head (Pkg. of 25)	
14	809-0185	Washer, #10 SAE Flat	
15	826-1562	Relay, Solid State 40A 280V SPST NO	
16	809-0582	Washer, ½-inch NPT Lock	
17	807-3064	Switch, Cover Interlock	
18	806-9296	Computer Assembly, VT	
19	826-1376	Nut, 10-32 Keps Hex (Pkg. of 10)	
20	807-3196	Heater, 240V 165W Cartridge	
21	809-0410	Screw, #8 x ½-inch Drill Point Philips Shoulder Head	
22	806-9579	Heater Assembly, VT Tray	
23	810-0045	Bushing, .875 Dia. Hole x 11/16-inch	
24	807-3132	Probe, VT Tray Heater	
25	106-0071	Bracket, Motor Mounting	
26	809-0250	Nut, 6-32 Keps Hex	
27		Motor Kit, $200-208V$, $50/60$ Hz (replaces original motor, which is no longer available)	
	826-1968	16-Second Belt Speed Configuration	
	826-1966	13-Second Belt Speed Configuration	
28		Capacitor Assembly, 50/60 Hz VT Motor	
	106-0282SP	For use with Saia-brand motor only	
	807-3902	For use with retrofitted Oriental-brand motor only.	
29	826-1385	Tie-Wrap (Pkg. of 25)	
30	816-0217	Insulation, Paper	
31	200-0071	Retainer, VT Capacitor	
32	809-0349	Spacer, 4 mm x 6 mm Aluminum	
33	807-3198	Cordset, Hooded Twist-Lock	
34	807-3243	Cordset, Standard Twist-Lock	
35	807-3242	Cordset, Pin and Sleeve	
*	806-9584	Harness, VT Wiring (w/9-pin male plug)	
* Not illustrated.			



ITEM	PART #	COMPONENT		
1	200-0179	Tray, VT Crumb		
2	807-2191	Transformer, 208-240V/12V		
3	106-0773	Bracket, Transformer		
4	826-1393	Fuse, 250V 3A (Pkg. of 10)		
5	809-0247	Nut, 8-32 Keps Hex		
6	809-0702	Screw, 4-40 x ¾-inch Philips Head		
7	826-1366	Nut, 4-40 Keps Hex (Pkg. of 25)		
8	807-3021	Relay, 30A 12VDC DPST-NO		
9	809-0112	Screw, 8-32 x 1 ¹ / ₄ -inch Slotted Truss Head		
10	809-0185	Washer, #10 SAE Flat		
11	826-1359	Screw, 4-40 x ³ / ₄ -inch Slotted Round Head (Pkg. of 25)		
12	807-3213	Relay, Solid State 5 Amp with 3/16-inch Terminals		
13	810-0045	Bushing, .875-inch Dia. 11/16-inch Hole		
14	810-1722	Grommet, .5-inch I.D. x 1.05-inch O.D. Toaster		
15	809-0132	Screw, ¼-20 x ¾-inch Slotted Pan Head		
16	826-1372	Nut, ¼-20 Grip Hex (Pkg. of 10)		
17	900-8867	Cover, VT Terminal		
18	807-3064	Switch, Cover Interlock		
19	806-9296	Computer Assembly, VT		
20	826-1376	Nut, 10-32 Keps Hex (Pkg. of 10)		
21	807-3196	Heater, 240V 165W Cartridge		
22	809-0410	Screw, #8 x ¹ / ₂ -inch Philips Drill-Point Sheet Metal		
23	806-9579	Heater Assembly, VT Tray		
24	807-3132	Probe, VT Tray Heater		
25	106-0071	Bracket, Motor Mounting		
26	809-0250	Nut, 6-32 Keps Hex		
27		Motor Kit, 220-250V, 50/60 Hz (replaces original motor, which is no longer available)		
	826-1967	13-Second Belt Speed Configuration		
	826-1969	16-Second Belt Speed Configuration		
28	807-3898	Capacitor Assembly, 50 Hz VT Motor (for use with Oriental-brand motor only)		
29	826-1385	Ty-wrap (Pkg. of 25)		
30	816-0495	Insulation, Paper		
31	200-0071	Retainer, VT Capacitor		
32	809-0349	Spacer, 4 mm x 6 mm Aluminum		
33	807-3529	Cordset, VT CE		
34	826-1330	Screw, 10-32 x ³ / ₈ -inch Slotted Truss Head (Pkg. of 25)		
35	824-0896	Cover, Power Line Filter		
36	807-3472	Filter, Power Line		
37	826-1365	Screw, 6-32 x ¾-inch Slotted Truss Head (Pkg. of 25)		
*	806-9584	Harness, VT Wiring (w/9-pin male plug)		
* Not illu	* Not illustrated			

10.3 SERVICE PROCEDURES

NOTE: Unless power is necessary for troubleshooting, turn the unit off and unplug it whenever performing service on this equipment.

Accessing the Electronics (See illustration on Page 8)

- 1. Loosen the setscrews securing the bun compression knobs to their shafts and remove the knobs.
- 2. Remove the screws in the edge of the component housing cover. On some early production units, it may be necessary to rotate the top outward and disengage the tabs on the cover from the slots in the bottom edge of the component housing.

Accessing the Motor and Tray Heater (See illustrations on Pages 8, 16, and 18)

Carefully lay the unit on its back and remove the seven screws that secure the bottom cover in place.

Removing the Conveyor Assemblies (See illustrations on Pages 14 and 16)

- 1. Turn off and unplug the unit.
- 2. Remove the bun feeder then remove the cover by lifting it straight up until it is clear of its retainers.
- 3. Rotate the bun compression knobs to positions **5** and **E**.
- 4. Press down and rearward on the top roller(s) of the conveyor assembly to be removed to lock it/them in the down position.
- 5. Rotate the tray stabilizer latch upward, then remove the belt(s). Return the tray stabilizer latch to the latched position.
- 6. Loosen the setscrews in the bun compression knobs and remove the knobs.
- 7. Remove the screws in the edge of the component housing cover. On some early production units, it may be necessary to rotate the top outward and disengage the tabs on the cover from the slots in the bottom edge of the component housing.
- 8. Release the tension on the chain by pressing down on the chain tensioner arm. Remove the chain from the sprockets. **NOTE:** The diagonal brace may be removed to facilitate access.

9. To remove the dual-belt conveyor assembly:

- a. Loosen the setscrew in the forward-most drive sprocket and remove the sprocket.
- b. Remove the four hex-head screws securing the conveyor assembly from the inside of the component housing (the four screws closest to the front of the unit).
- c. Remove the two hex-head screws securing the top of the conveyor assembly from the outside (conveyor side) of the component housing.
- d. Loosen but do not remove the final two nuts and bolts securing the conveyor assembly to the component housing. Rotate the tray stabilizer latch upward. While supporting the conveyor assembly, remove the nuts and bolts to free the assembly.
- e. Reinstall the conveyor assembly by reversing the steps performed.

10. To remove the toasting conveyor assembly:

- a. Loosen the setscrew in the second drive sprocket from the front and remove the sprocket.
- b. Detach the platen and probe wiring from the relay, high-limit, and 12-pin connector.
- c. Remove the three hex-head screws securing the assembly from the inside of the component housing (the three screws closest to the rear with ground wires attached). Mark the wires to facilitate reassembly.
- d. Remove the hex-head screws around the edge of the rear cover. On some early production units it may be necessary to remove a final hex-head screw securing the rear cover to the side of the component housing. Rotate the tray stabilizer latch upward and remove the rear cover.
- e. Remove the hex-head screw securing the top of the conveyor assembly from the outside (conveyor side) of the component housing.
- f. Loosen but do not remove the final two nuts and bolts securing the conveyor assembly to the component housing. While supporting the conveyor assembly, remove the nuts and bolts to free the assembly.
- g. Reinstall the conveyor assembly by reversing the steps performed.

Replacing the High-Limit Thermostat or Heater Probe (See illustrations on Pages 8 and 12)

- 1. Turn off and unplug the unit.
- 2. Remove the bun feeder then remove the cover by lifting straight up until it is clear of its retainers.
- 3. Remove the hex-head screws from around the edge of the rear cover. On some early production units it may be necessary to remove a final hex-head screw securing the rear cover to the side of the component housing. Rotate the tray stabilizer latch upward and remove the rear cover.
- 4. To replace the high-limit thermostat, remove the platen tray brace to expose the thermostat and remove the screws securing it in place.
- 5. To replace the heater probe, remove the plug over the probe to expose the component. Remove the screw securing the probe retainer and remove the probe.
- 6. Replace the failed component. Reassemble by reversing the steps performed.

Replacing the Tray Heater/Tray Heater Probe (See illustrations on Pages 8, 16, and 18)

- 1. Turn off and unplug the unit.
- 2. Loosen the setscrews in the bun compression knobs and remove the knobs.
- 3. Remove the screws in the edge of the component housing cover. On some early production units it may be necessary to rotate the top outward and disengage the tabs on the cover from the slots in the bottom edge of the component housing.
- 4. Disconnect the failed component's wiring, then carefully lay the unit on its back and remove the screws that secure the bottom cover in place. Remove the cover.
- 5. To replace the probe, peel back the heater to expose and remove the probe. To replace the heater, peel it completely off.

6. Reverse the steps performed to reassemble unit.

Replacing the Dual Belt Conveyor Cartridge Heater (See illustrations on Pages 8, 16, and 18)

- 1. Turn off and unplug the unit.
- 2. Loosen the setscrews in the bun compression knobs and remove the knobs.
- 3. Remove the screws in the edge of the component housing cover. On some early production units it may be necessary to rotate the top outward and disengage the tabs on the cover from the slots in the bottom edge of the component housing.
- 4. Disconnect the heater leads. Remove the hex-head screw securing the heater in place and remove the heater.
- 5. Reverse steps 1-4 to reassemble the unit.

Replacing the Transformer or Relays (See illustrations on Pages 8, 16, and 18)

- 1. Turn off and unplug the unit.
- 2. Loosen the setscrews in the bun compression knobs and remove the knobs.
- 3. Remove the screws in the edge of the component housing cover. On some early production units it may be necessary to rotate the top outward and disengage the tabs on the cover from the slots in the bottom edge of the component housing.
- 4. Hold the replacement component next to the component to be replaced and, one at a time, disconnect the wires from the failed component and connect them to the replacement component.
- 5. Remove the screws and/or nuts securing the failed component to the component housing and install the replacement.
- 6. Reverse steps 1-3 to reassemble the unit.

10.4 TECHNICIAN TROUBLESHOOTING

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
	A. Failed transformer.	A. Check for line voltage on the primary (line) side of transformer and 12VAC on secondary (load) side of transformer. If line voltage is present but secondary voltage is not 12VAC, the transformer has failed.
Display remains blank when unit turned on.	B. Failed computer.	B. Check continuity between right terminal of secondary (load) side of transformer and Pin 9 of the 12-pin connector when the cover interlock switch is closed. If resistance is zero, replace the computer.
	C. Failed cover interlock switch or failed high limit.	C. Check continuity between switch terminals when the switch is closed. If resistance is infinite, replace switch. If resistance is zero, replace high limit.
	A. Failed motor.	A. If platen is heating, replace motor.
Computer display is on, but motor is not running	B. Broken/loose wire between computer and latch relay or failed latch relay.	B. Check for 12VDC on Pins 6 & 7 of computer. If present and wiring is intact, replace latch relay. If not present, replace computer.
Motor is running at wrong speed (i.e. average time for three individual buns to pass through toaster is NOT between 9 and 13 seconds).	A. Toaster improperly configured for power supply.	A. Check data plate for voltage rating, and verify that power supply and toaster match.
	A. Improper power-supply.	A. Verify that the power supply is 20 amp single-phase 208 or 240VAC (depending upon model).
Platen heats, but unit does not reach setpoint.	B. Failed temperature probe.	B. Use a temperature-measuring device to determine actual platen temperature. If measured temperature is within 10 degrees of the temperature displayed on the computer and the probe resistance at pins 3 and 5 of the 12-pin connector <i>does not</i> correspond to the appropriate value in the probe resistance chart on Pages 20 and 21, replace the probe.
	C. Failed computer.	C. Use a temperature-measuring device to determine actual platen temperature. If measured temperature is within 10 degrees of the temperature displayed on the computer and probe resistance at pins 3 and 5 of 12-pin connector corresponds to the value in the probe resistance chart on Pages 20 and 21, replace the computer.

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
	A. Failed computer.	A. Check for 12VDC on computer pins 6 & 7. If NOT present AND motor is running, replace computer. Check for 5VDC on terminals 3 & 4 of main heater relay and pins 1 and 6 of computer. If NOT present at either point AND motor is running, replace computer.
	B. Broken/loose wire between computer and latch relay, or failed latch relay.	 B. Check for 12VDC on computer pins 6 & 7. If present and wiring is intact, replace latch relay.
Platen does not heat, but computer display is on.	C. Failed main heater probe.	C. Determine temperature of platen then measure main heater probe resistance at pins 3 & 5 of 12-pin connector. If the probe resistance is NOT approximately equal to the corresponding resistance in the chart on Pages 20 and 21, replace the probe.
	D. Broken/loose wire between computer and main heater relay, or failed main heater relay.	 D. Check for 5VDC on terminals 3 & 4 of main heater relay AND on computer pins 1 & 6. If present on pins 1 & 6, but NOT on terminals 3 & 4, and wiring is intact, replace the main heater relay.
	E. Failed platen.	E. Check for 5VDC on terminals 3 & 4 of main heater relay and for line voltage on terminal 2 of main heater relay and terminal 4 of latch relay. If expected voltage is present at all three points, replace the platen.
	A. Failed computer.	A. Check for 12VDC on computer pins 6 & 7. If NOT present AND motor is running, replace computer. Check for 5VDC on terminals 3 & 4 of main heater relay and pins 2 and 6 of computer. If NOT present at either point AND motor is running, replace computer.
	B. Broken/loose wire between computer and latch relay, or failed latch relay.	 B. Check for 12VDC on computer pins 6 & 7. If present and wiring is intact, replace latch relay.
Tray heater does not heat, but computer display is on.	C. Failed tray heater probe.	C. Determine temperature of tray heater then measure tray heater probe resistance at pin 4 of 12-pin connector and ground. If the probe resistance is NOT approximately equal to the corresponding resistance in the chart on Pages 20 and 21, replace the probe.
	D. Broken/loose wire between computer and tray heater relay, or failed tray heater relay.	 D. Check for 5VDC on terminals 3 & 4 of tray heater relay AND on computer pins 2 & 6. If present on pins 2 & 6, but NOT on terminals 3 & 4, and wiring is intact, replace the tray heater relay.
	E. Failed tray heater.	E. Check for 5VDC on terminals 3 & 4 of main heater relay and for line voltage on terminal 2 of tray heater relay and terminal 4 of latch relay. If expected voltage is present at all three points, replace the tray heater.

Probe Resistance Chart

(Page 1 of 2)

For use with McDonald's	Vertical	Toasters only.
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F	OHMS	С	F	OHMS	С	F	OHMS	С	F	OHMS	С	F	OHMS	С
32	1000	0	83	1107	28	134	1214	57	185	1320	85	23		113
33	1002	1	84	1110	29	135		57	186	1322	86	23		114
34	1002	1	85	1112	29	136		58	187	1324	86	23		114
35	1006	2	86	1114	30	137	1220	58	188	1326	87	23		115
36	1008	2	87	1116	31	138		59	189	1328	87	24		116
37	1011	3	88	1118	31	139		59	190	1330	88	24		116
38	1013	3	89	1120	32	140	1226	60	191	1332	88	24		117
39	1015	4	90	1122	32	141	1229	61	192	1334	89	24		117
40	1017	4	91	1124	33	142		61	193	1336	89	24		118
41	1019	5	92	1126	33	143		62	194	1338	90	24		118
42	1021	6	93	1128	34	144	1235	62	195	1340	91	24		119
43	1023	6	94	1131	34	145		63	196	1342	91	24		119
44	1025	7	95	1133	35	146		63	197	1344	92	24		120
45	1030	7	96	1135	36	147	1241	64	198	1346	92	24		121
46	1032	8	97	1137	36	148		64	199	1348	93	25		121
47	1034	8	98	1139	37	149		65	200	1350	93	25		122
48	1036	9	99	1141	37	150		66	201	1352	94	25		122
49	1038	9	100	1143	38	151	1249	66	202	1354	94	25		123
50	1040	10	101	1145	38	152	1251	67	203	1357	95	25		123
51	1042	11	102	1147	39	153	1253	67	204	1359	96	25		124
52	1044	11	103	1149	39	154	1255	68	205	1361	96	25		124
53	1046	12	104	1151	40	155		68	206	1363	97	25		125
54	1049	12	105	1154	41	156		69	207	1365	97	25		126
55	1051	13	106	1156	41	157	1262	69	208	1367	98	25	9 1471	126
56	1053	13	107	1158	42	158	1264	70	209	1369	98	26	0 1473	127
57	1055	14	108	1160	42	159	1266	71	210	1371	99	26	1 1475	127
58	1057	14	109	1162	43	160	1268	71	211	1373	99	26	2 1477	128
59	1059	15	110	1164	43	161	1270	72	212	1375	100	26	3 1479	128
60	1061	16	111	1166	44	162	1272	72	213	1377	101	26	4 1481	129
61	1063	16	112	1168	44	163	1274	73	214	1379	101	26	5 1483	129
62	1065	17	113	1170	45	164	1276	73	215	1381	102	26	6 1485	130
63	1067	17	114	1172	46	165	1278	74	216	1383	102	26	7 1487	131
64	1068	18	115	1174	46	166	1280	74	217	1385	103	26	8 1489	131
65	1070	18	116	1176	47	167	1282	75	218	1387	103	26		132
66	1072	19	117	1179	47	168	1284	76	219	1389	104	27	0 1493	132
67	1074	19	118	1181	48	169		76	220	1391	104	27		133
68	1076	20	119	1183	48	170	1289	77	221	1393	105	27		133
69	1078	21	120	1185	49	171	1291	77	222	1395	106	27		134
70	1080	21	121	1187	49	172		78	223	1398	106	27		134
71	1082	22	122	1189	50	173		78	224	1400	107	27		135
72	1084	22	123	1191	51	174		79	225	1402	107	27		136
73	1086	23	124	1193	51	175		79	226	1404	108	27		136
74	1089	23	125	1195	52	176		80	227	1406	108	27		137
75	1091	24	126	1197	52	177	1303	81	228	1408	109	27		137
76	1093	24	127	1199	53	178		81	229	1410	109	28		138
77	1095	25	128	1201	53	179		82	230	1412	110	28		138
78	1097	26	129	1204	54	180		82	231	1414	111	28		139
79	1099	26	130	1206	54	181	1311	83	232	1416	111	28		139
80	1101	27	131	1208	55	182		83	233	1418	112	28		140
81	1103	27	132	1210	56	183		84	234	1420	112	28		141
82	1105	28	133	1212	56	184	1317	84	235	1422	113	28	6 1526	141

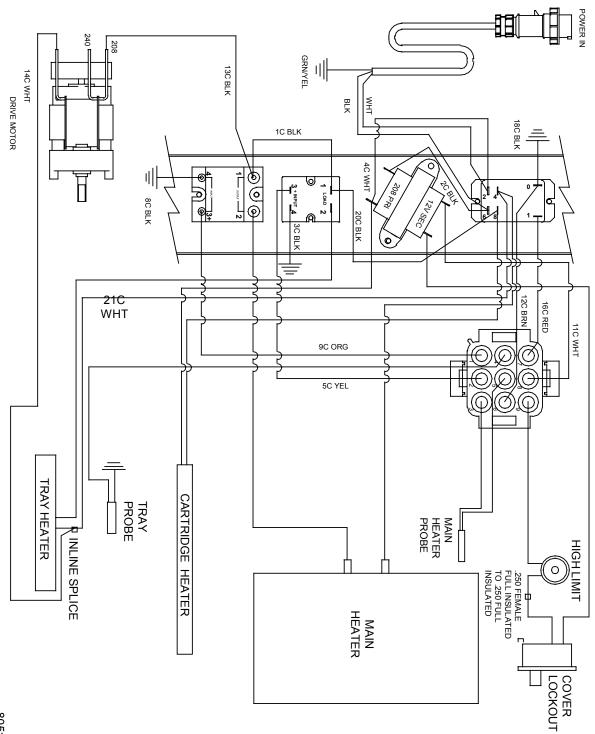
Probe Resistance Chart

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For use with McDonald's Vertical Toasters only.

F	OHMS	С		F	OHMS	С		F	OHMS	С		F	OHMS	С	F	OHMS	C
287	1528	142		338	1630	170	3	389	1732	198		440	1833	227	491	1932	255
288	1530	142		339	1632	171		390	1734	199		441	1835	227	492	1934	256
289	1532	143		340	1634	171	3	391	1736	199		442	1837	228	493	1936	256
290	1534	143		341	1636	172		392	1738	200		443	1839	228	494	1938	257
291	1536	144		342	1638	172	3	393	1740	201		444	1841	229	495	1940	257
292	1538	144	3	343	1640	173		394	1742	201		445	1843	229	496	1942	258
293	1540	145		344	1642	173	3	395	1744	202	1	446	1845	230	497	1944	258
294	1542	146	3	345	1644	174	3	396	1746	202		447	1846	231	498	1946	259
295	1544	146		346	1646	174	3	397	1748	203		448	1848	231	499	1948	259
296	1546	147	3	347	1648	175	3	398	1750	203		449	1850	232	500	1950	260
297	1548	147	3	348	1650	176	3	399	1752	204		450	1852	232	501	1952	261
298	1550	148	3	349	1652	176	4	100	1754	204		451	1854	233	502	1954	261
299	1552	148		350	1654	177	4	101	1756	205		452	1856	233	503	1956	262
300	1554	149		351	1656	177	4	102	1758	206		453	1858	234	504	1958	262
301	1556	149		352	1658	178	4	103	1760	206		454	1860	234	505	1960	263
302	1558	150	3	353	1660	178		104	1762	207		455	1862	235	506	1962	263
303	1560	151		354	1662	179		105	1764	207		456	1864	236	507	1964	264
304	1562	151	3	355	1664	179	4	106	1766	208		457	1866	236	508	1965	264
305	1564	152		356	1666	180		107	1768	208		458	1868	237	509	1967	265
306	1566	152		357	1668	181		108	1770	209		459	1870	237	510	1969	266
307	1568	153		358	1670	181		109	1772	209		460	1872	238	511	1971	266
308	1570	153		359	1672	182		110	1774	210		461	1874	238	512	1973	267
309	1572	154		360	1674	182		111	1776	211		462	1876	239	513	1975	267
310	1574	154		361	1676	183		12	1778	211		463	1878	239	514	1977	268
311	1576	155		362	1678	183		13	1780	212		464	1880	240	515	1979	268
312	1578	156		363	1680	184		114	1781	212		465	1882	241	516	1981	269
313	1580	156		364	1682	184		115	1783	213		466	1884	241	517	1983	269
314	1582	157		365	1684	185		16	1785	213		467	1886	242	518	1985	270
315	1584	157		366	1686	186		17	1787	214		468	1888	242	519	1987	271
316	1586	158		367	1688	186		118	1789	214		469	1890	243	520	1989	271
317	1588	158		368	1690	187		119	1791	215		470	1892	243	521	1991	272
318	1590	159		369	1692	187		120	1793	216		471	1893	244	522	1993	272
319	1592	159		370	1694	188		121	1795	216		472	1895	244	523	1995	273
320	1594	160		371	1696	188		122	1797	217		473	1897	245	524	1996	273
321 322	1596 1598	161 161		372 373	1698 1700	189 189		123 124	1799 1801	217 218		474 475	1899 1901	246 246	525 526	1998 2000	274 274
	1600			373 374				+24 125								2000	
323 324	1600	162 162		374 375	1702 1704	190 191		125 126	1803 1805	218 219		476 477	1903 1905	247 247	527 528	2002	275 276
324		162		375 376	1704	191		+20 127	1805	219		477	1905	247	526 529	2004	276
325	1604	163		376 377	1708	191		+27 128	1807	219		478	1907	240 248	529 530	2008	276
320	1608	163		378	1708	192		+20 129	1809	220		479	1909	240	530	2008	277
328	1610	164		379	1710	192		130	1813	221		480	1913	249	532	2010	278
329	1610	165		380	1712	193		+30 +31	1815	221		482	1915	249	533	2012	278
330	1612	166		381 381	1714	193		132	1815	222		483	1915	250	534	2014	279
331	1614	166		382	1718	194		133	1817	222		484	1917	251	535	2010	279
332	1618	167		383	1710	194		134	1821	223		485	1919	252	536	2010	280
333	1620	167		384 384	1720	195		135	1823	223		485	1921	252	537	2020	281
334	1620	168		385	1722	190		136	1825	224		480	1925	252	538	2022	281
335	1622	168		386	1724	190		137	1827	224		488	1923	253	539	2023	282
336	1624	169		387	1728	197		138	1829	226		489	1929	254	540	2027	282
337	1628	169		388	1730	198		139	1831	226		490	1923	254	541	2023	283
001	1020	100		500	1700	100		100	1001	220			1001	207	0.11	2001	200

Note: These diagrams depict wiring as of the date of manual publication. They may not reflect design changes made to the equipment after publication. Refer to the wiring diagram affixed to the unit when actually troubleshooting or servicing this equipment.



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