

Place this manual in the Toaster section
of your Equipment Manual.
Manufactured exclusively for
McDONALD'S®

BY
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A.J. Antunes & Co.



HEBT-3V

Scan with mobile device or enter URL
for product and service information.

<http://tiny.cc/ajaHEBT3V>

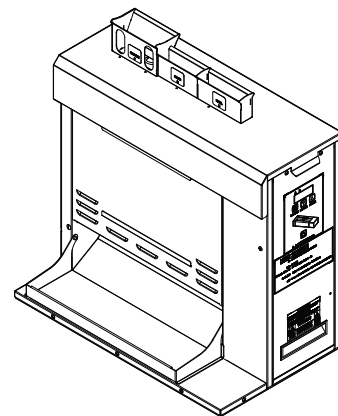


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LIMITED WARRANTY

The Antunes Food Service Equipment Division of A.J. Antunes & Co. provides the following limited warranty to the original purchaser of all McDonald's Equipment. All components are warranted against defects in the material and workmanship for a period of two (2) years from date of original installation.

If any part becomes defective during the period of this Warranty, Antunes Food Service will pay labor costs to an Authorized Service Agent to replace the part plus travel expenses.

WARRANTY EXCLUSIONS

- The cost of Installation.
- Equipment that has been damaged due to shipment. Purchaser should make damage claim directly upon carrier.
- Alteration, misuse, abuse.
- Improper storage or handling.
- Improper maintenance.
- Failure to follow proper Installation instructions, including electrical connection.

- Improper or unauthorized repairs.
- Scheduled Maintenance procedures as outlined in your MRC Card.
- This Warranty does not cover Consumable items.
- Water pressure problems or contamination problems such as foreign material in water lines or inside solenoid valves due to an incoming water source.
- Freight, foreign, excise, municipal or other sales or use taxes.
- Consequential damages such as loss of profit, loss of time, the cost of repairing or replacing other property which is damaged, or any other incidental damage of any kind.

Antunes Food Service reserves the right to make changes in design or add improvements on any products. The right is always reserved to modify Equipment because of factors beyond our control and government regulation. Changes to Equipment do not constitute a warranty charge.

This warranty is exclusive and is in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, each of which is expressly disclaimed. The remedies described above are exclusive, and in no event shall A.J. Antunes & Co. or any of its Divisions be liable for special consequential or incidental damages for the breach or delay in the performance of this warranty.

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OWNER INFORMATION

General

This manual provides the safety, installation, and operating procedures for this unit. Please read this manual prior to installing and operating the unit.

This unit is manufactured from the finest materials available and assembled to Roundup's strict quality standards. This unit has been tested at the factory to ensure dependable trouble-free operation.

Service/Technical Assistance

If you experience any problems with the installation or operation of your unit, contact your Authorized Service Agency.

Warranty Information

Please read the full text of the Limited Warranty in this manual.

If the unit arrives damaged, contact the carrier immediately and file a damage claim with them. Save all packing materials when filing a claim. Freight damage claims are the responsibility of the purchaser and are not covered under warranty.

The warranty does NOT extend to:

- Damages caused in shipment or damage as result of improper use.
- Installation of electrical service.
- Normal maintenance as outlined in this manual.
- Malfunction resulting from improper maintenance.
- Damage caused by abuse or careless handling.
- Damage from moisture into electrical components.
- Damage from tampering with, removal of, or changing any preset control or safety device.

Fill in the information below and have it handy when calling your Authorized Service Agency for assistance. The serial number is on the specification plate located on the rear of the unit.

Purchased From: _____

Date of Purchase: _____

Model No.: _____

Serial No.: _____

Mfg. No.: _____

Network ID Number: _____

Refer to the service agency directory packaged with your manual and fill in the information below:

Authorized Service Agency

Name: _____

Phone No.: _____

Address: _____

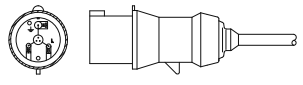
Use only genuine Roundup replacement parts in this unit. Use of replacement parts other than those supplied by the manufacturer will void the warranty. Your Authorized Service Agency has been factory trained and has a complete supply of parts for this toaster.

You may also contact the factory at 1-877-392-7854 (North America only), or 630-784-1000 if you have trouble locating your local Authorized Service Agency.

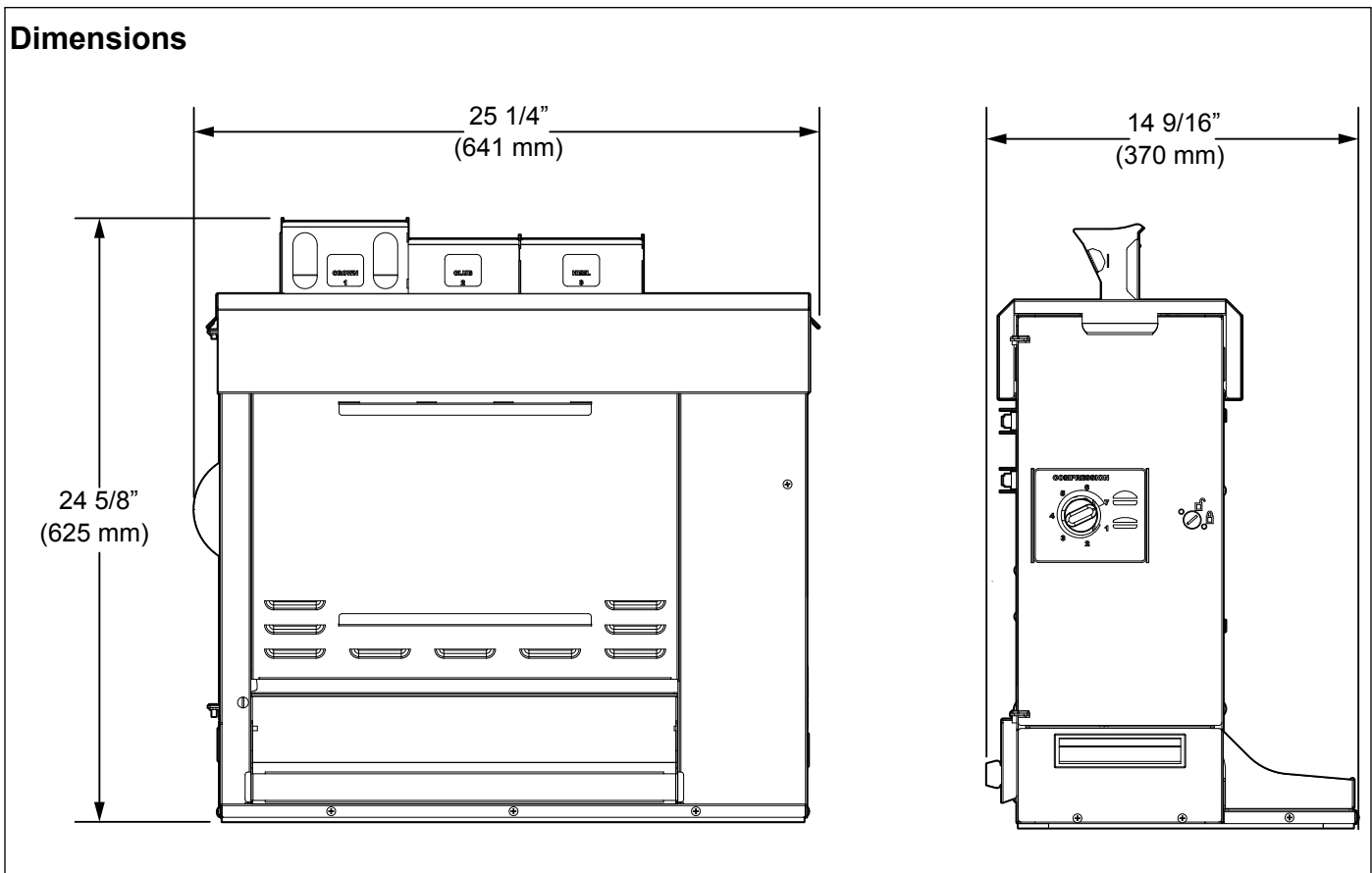
IMPORTANT! Keep these instructions for future reference. If the unit changes ownership, be sure this manual accompanies the equipment.

SPECIFICATIONS

Electrical Specifications & Plug Configuration

Model & Mfg. No	Volt	Watts	Hz.	Plug Description	Plug Configuration
HEBT-3V 9210857 (China only) 9210862 International	220-240	3300	50/60	IEC-309 Pin & Sleeve, 16 Amp., 230 Volt	

Dimensions



⚠ CAUTION ⚠

All electrical connections must be in accordance with local electrical codes and any other applicable codes.

IMPORTANT SAFETY INFORMATION

In addition to the warnings and cautions in this manual, use the following guidelines for safe operation of the unit.

- Read all instructions before using equipment.
- For your safety, the equipment is furnished with a properly grounded cord connector. Do NOT attempt to defeat the grounded connector.
- Install or locate the equipment only for its intended use as described in this manual. Do NOT use corrosive chemicals in and/or on this equipment.
- Do NOT operate this equipment if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
- This equipment should be serviced by qualified personnel only. Contact the nearest Authorized Service Agency for adjustment or repair.
- Do NOT block or cover any openings on the unit.
- Do NOT immerse cord or plug in water.
- Keep cord away from heated surfaces.
- Do NOT allow cord to hang over edge of table or counter.
- Do NOT clean this appliance with a water jet.

The following warnings and cautions appear throughout this manual and should be carefully observed.

- Turn the unit off, wait for the cool-down procedure to complete its cycle, and disconnect the power cord before performing any service or maintenance on the unit.

NOTE: Turning off the power switch does NOT turn off all power to the unit. When the unit is plugged in and turned off, an LED light flashes to indicate that the power cord is plugged in.

- The procedures in this chapter may include the use of chemical products. These chemical products will be highlighted with bold face letters followed by the abbreviated **HCS** (Hazard Communication Standard). See Hazard Communication Standard manual for the appropriate Material Safety Data Sheets (MSDS).
- The equipment should be grounded according to local electrical codes to prevent the possibility of electrical shock. It requires a grounded receptacle with separate electrical lines, protected by fuses or circuit breaker of the proper rating.

- Bread may burn. Therefore toasters must not be used near or below curtains or other combustible walls and materials. Failure to maintain safe operating distances may cause discoloration or combustion.

⚠ WARNING ⚠

To avoid possible personal injury and/or damage to the unit, all inspections, tests, and repair of electrical equipment should be performed by QUALIFIED SERVICE PERSONNEL. The unit MUST be completely shut down and unplugged before any internal servicing, except when electrical tests are required. Use extreme care during electrical circuit tests. Live circuits will be exposed.

⚠ CAUTION ⚠

All electrical connections must be in accordance with local electrical codes and any other applicable codes.

⚠ CAUTION ⚠

Bread may burn. Therefore toasters must not be used near or below curtains or other combustible walls and materials. Failure to maintain safe operating distances may cause discoloration or combustion.

⚠ CAUTION ⚠

NEVER unplug the power cord while the unit is running! Use the proper shutdown procedure before unplugging the power cord.

⚠ WARNING ⚠

ELECTRICAL SHOCK HAZARD. FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL COULD RESULT IN SERIOUS INJURY OR DEATH.

- Electrical ground is required on this appliance.
- Do NOT modify the power supply cord plug. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.
- Do NOT use an extension cord with this appliance.
- The toaster should be grounded according to local electrical codes to prevent the possibility of electrical shock. It requires a grounded receptacle with separate electrical lines, protected by fuses or circuit breaker of the proper rating.
- Check with a qualified electrician if you are unsure if the appliance is properly grounded.

INSTALLATION

Unpacking

1. Open the large box. It contains:
 - HEBT-3V toaster
 - Accessories box
2. Remove the accessories box from the large box.
3. With the help of another person, carefully remove the HEBT-3V from the large box.
4. Remove all protective coverings from the unit.
5. Open the Accessories Box. It contains:
 - Owner's Manual
 - Bun Buffer Frame
6. Wipe the entire exterior of the toaster and the accessories mentioned above with a clean towel sprayed with a McDonald's approved sanitizer. Allow to air dry.

NOTE: Handle accessories with care. If an accessory becomes bent or damaged, it may not attach to the unit correctly, which may affect normal operation.

NOTE: If any parts are missing or damaged, contact A.J. Antunes Technical Service IMMEDIATELY at 1-877-392-7854 (North America only), or 630-784-1000.

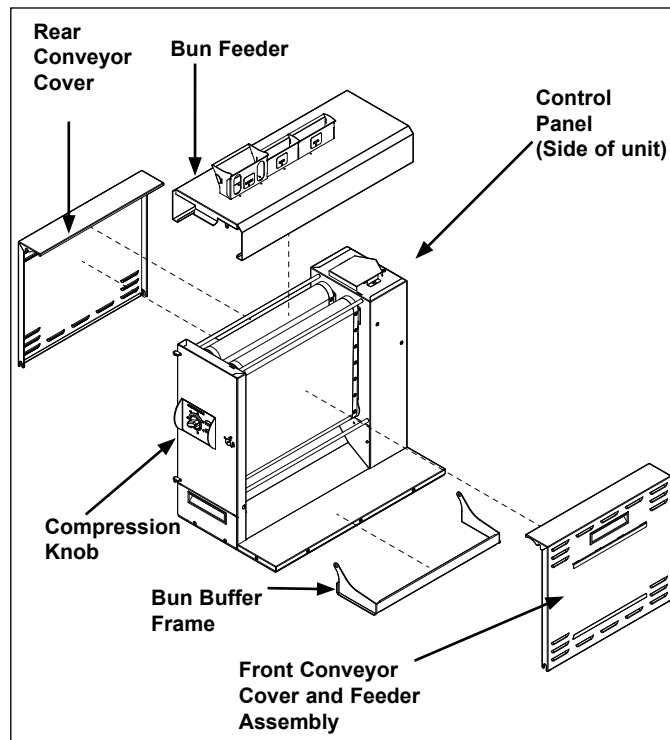


Figure 1. HEBT-3V Components

Location

When placing the toaster into service, pay attention to the following guidelines:

- Make sure power is off and the toaster is at room temperature.
 - Do NOT block or cover any openings on the unit.
 - Do NOT immerse cord or plug in water.
 - Keep cord away from heated surfaces.
 - Do NOT allow cord to hang over edge of table or counter.
1. Place the toaster in the required position designated by McDonald's.
 2. Attach the Bun Feeder, Bun Buffer Frame, and Crown\Heel Separator accessories (Figure 1.)
 3. Plug the power cord into an appropriate power outlet. Refer to the specification plate for the proper voltage.

OPERATION

Operating Instructions

The HEBT-3V toasts Crowns, Heels, Clubs, and other products. Follow these steps to start the HEBT-3V:

1. Turn on the toaster and wait for warm-up to complete.
2. Set the Compression Knob to 4 (recommended). If further adjustments are required see page 8 under Adjusting Toast Quality. Refer to the figure on page 7.
3. When the unit reaches operating temperature, the control panel displays **USE**.
4. Insert product into the designated area of the Bun Feeder Assembly with the cut side of the bun facing towards the front. Toasted product drops into the Bun Buffer.

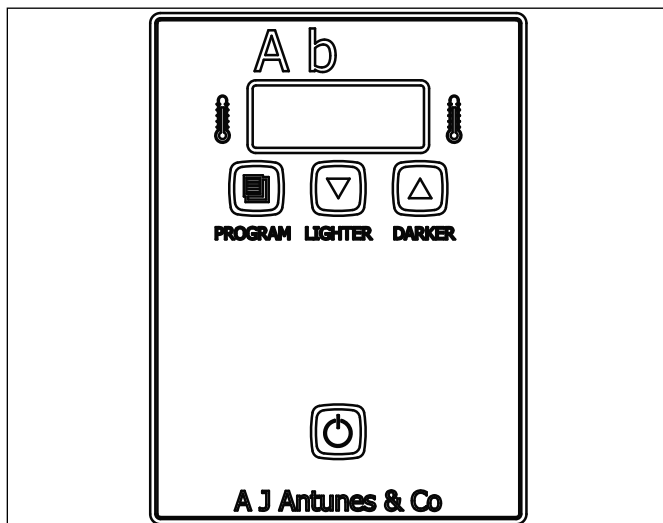


Figure 2. HEBT-3V Control Panel and Display

User Mode

User Mode allows an operator to view the toaster settings but does not permit any adjustments.

1. Press and hold the **PROGRAM** button for 5 seconds. After 5 seconds, the display will show the actual temperature of the Rear Platen.
2. Press the **LIGHTER** button to toggle between the setpoint and actual temperature of the Rear Platen Heater.
3. Press the **PROGRAM** button to proceed to the Front Platen Heater menu. The display shows the actual temperature of the Front Platen.
4. Press the **LIGHTER** button to toggle between the setpoint and actual temperature of the Front Platen.
5. Press the **PROGRAM** button to proceed to the Motor Menu. The display shows the actual speed of the motor.
6. Press the **LIGHTER** button to toggle between the setpoint and actual speed of the Motor.

NOTE: The unit will exit User Mode after 5 seconds of keypad inactivity.

Manager Mode

Manager Mode allows an operator to view and adjust the following settings:

- Platen A Temperature
- Platen B Temperature
- Motor Speed
- Temperature Units (Celsius or Fahrenheit)
- Current Selection: 208 or 240 volts

Manager Mode also allows an operator to view (but not adjust) the Ambient Temperature of the Control Compartment as well as the number of days of operation.

1. Turn the unit off.
2. Turn the power on while holding the **PROGRAM** button. Hold the button for 5 seconds until the display shows "EnA." Release the button.
3. To adjust the Platen Setpoint Temperature, press the **LIGHTER** or **DARKER** buttons to reach the desired temperature.

NOTE: The recommended temperature setting for the Rear Platen is 271° C (520° F).

OPERATION

4. Press the **PROGRAM** button to proceed to the Front Heater Setpoint Temperature.
5. To adjust the Front Heater Setpoint Temperature, press the **LIGHTER** or **DARKER** buttons to reach the desired temperature.

NOTE: The recommended temperature setting for the front Platen is 271° C (520° F).

6. Press the **PROGRAM** button to procedure to the Motor Speed Setpoint.
7. Adjust the Motor Speed Setpoint by pressing the **LIGHTER** or **DARKER** buttons to reach the desired speed.

NOTE: The Motor Speed is adjustable from 1-100. The recommended setting is 66. Setting 66 = 22 second pass through. Setting 75 = 17 second pass through.

8. Press the **PROGRAM** button to proceed to the Temperature Units.
9. To change the Temperatures units from Fahrenheit or Celsius, press the **LIGHTER** or **DARKER** buttons.
10. Press the **PROGRAM** button to proceed to the Ambient Temperature of the Control Compartment.

NOTE: No changes can be made to the Ambient Temperature of the Control Compartment. Temperatures under 150° F (66° C) are acceptable.

11. Press and hold the **PROGRAM** button to save any changes.

NOTE: The unit exits Manager Mode after 30 seconds of keypad inactivity.

There are variations in bun products Worldwide that are used on the A.J Antunes HEBT toaster such as moisture content, bun formulations, age, tolerances etc. The HEBT was designed to compensate for bun variations by allowing user to adjust the compression, light/dark (speed) & temperatures settings in order to achieve a Gold Standard toasted product.

1.LIGHT DARK ADJUSTMENT: Adjust the light dark setting with the ▲ or ▼ buttons. The default light/dark setting on the HEBT from the factory is 0 but can be adjusted from Lighter 0-10 to Darker 0-10 Light 10 is the lightest setting and dark 10 is the darkest. Each increase in "lighter" value will increase the pass through time and each increase in "darker" value with decrease the pass through time.

Safety Features

HI-LIMIT CONTROL

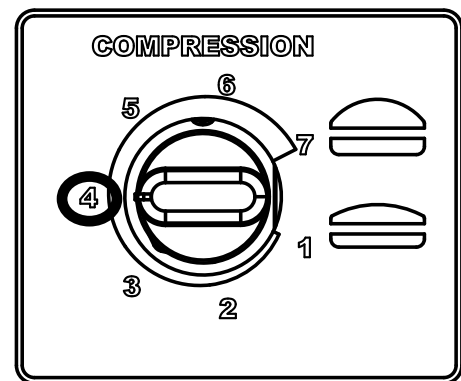
A Hi-Limit Control turns off electrical power to the heaters and control circuits if the unit overheats. To reset the control:

1. Allow 10 - 15 minutes for the unit to cool.
2. Locate the two Hi-Limit Controls on the rear of the unit. Remove the two black protective caps.
3. Press and release both buttons. Reinstall the protective caps.

NOTE: If the Hi-Limit Controls require continuous resetting, contact your Authorized Service Agency.

Purging buns from Toaster

If buns get stuck in the toaster, press and hold both the **UP** and **DOWN** arrow buttons to increase the belt speed until the buns are purged from the toaster.



2.TEMPERATURE ADJUSTMENT: Adjust the set point temperature on the platens in the program menu. The default temperature settings on the HEBT are A Platen: 271°C (520°F) and B Platen: 271°C (520° F) . The temperatures can be increased to +/- 50°F (10°C) if needed to achieve an acceptable toast quality.

3.COMPRESSION ADJUSTMENT: Adjust the compression knob on the left side of the unit. The default compression setting on the HEBT is 4 but is adjustable from 1-7. It is acceptable to adjust the compression from 1-7 as needed to achieve the desired toast quality and bun compression.

MAINTENANCE

Daily Cleaning

1. Turn the toaster's power switch to the off position. The toaster enters a cool-down mode and will automatically shut down when complete.

NOTE: You do NOT need to wait for the cool down to complete.

2. Remove the bun feeder and bun stop with heat resistant gloves (Figure 4 next page).
3. Remove the front and rear conveyor covers with heat resistant gloves.
4. Inspect and clean the front belt. Note that the front belt has white edges. Inspect the front belt for any tears, rips, holes, or damage to the belt wrap snaps. Replace any damaged belt wrap as needed. Refer to PM Card number PR 68 Q1 for belt replacement instructions. The images on this page are for reference to show examples of front and rear belts with tears, rips, holes, damage, and missing snaps.
5. If the front belt is in good condition, spray a clean, sanitizer-soaked towel with Sink Detergent solution. For heavily soiled belts, use Heavy Duty Degreaser instead. Wipe the front belt clean. Rinse the front belt with a separate clean, sanitizer-soaked towel. Allow to air dry.

NOTE: The belt rollers continue to turn during cool-down mode. To prevent damage during cleaning, only clean the belt when it is in front of the backing plate. The backing plate will provide support when pressure is applied with a towel.

Repeat this step several times if there is heavy carbon buildup on the conveyor belt.

6. Inspect and clean the rear belts. Note that the rear belt is black with black edges. Inspect the rear belts for any tears, rips, holes, or damage to the belt wrap snaps. Replace any damaged belt wrap as needed. Refer to PM Card number PR 68 Q1 for belt replacement instructions. The images on this page are for reference to show examples of front and rear belts with tears, rips, holes, damage, and missing snaps.
7. If the rear belt is in good condition, spray a clean, sanitizer-soaked towel with Sink Detergent Solution. For heavily soiled belts, use Heavy Duty Degreaser instead. Wipe the rear belt clean. Rinse the rear belt with a separate clean, sanitizer-soaked towel. Allow to air dry.

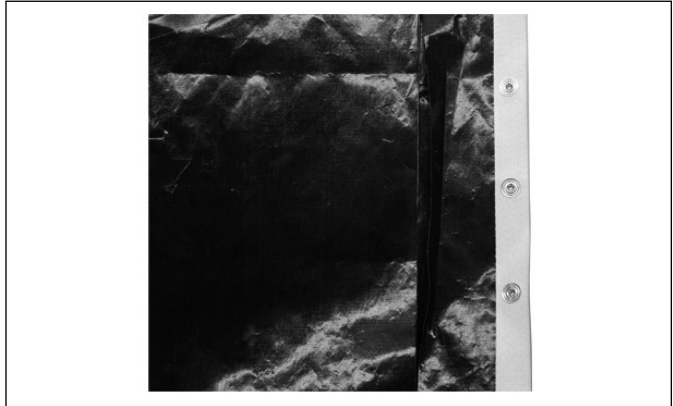


Figure 3. Examples of Damaged Belts

MAINTENANCE (continued)

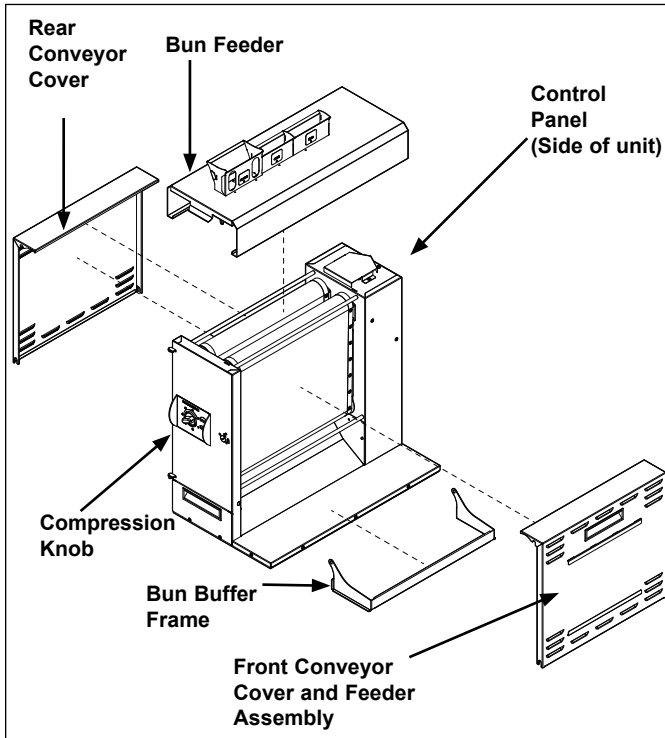


Figure 4. HEBT-3V Components



Figure 6. Example of Damaged Belt

NOTE: The belt rollers continue to turn during cool-down mode. To prevent damage during cleaning, only clean the belt when it is in front of the backing plate. The backing plate will provide support when pressure is applied with a towel.

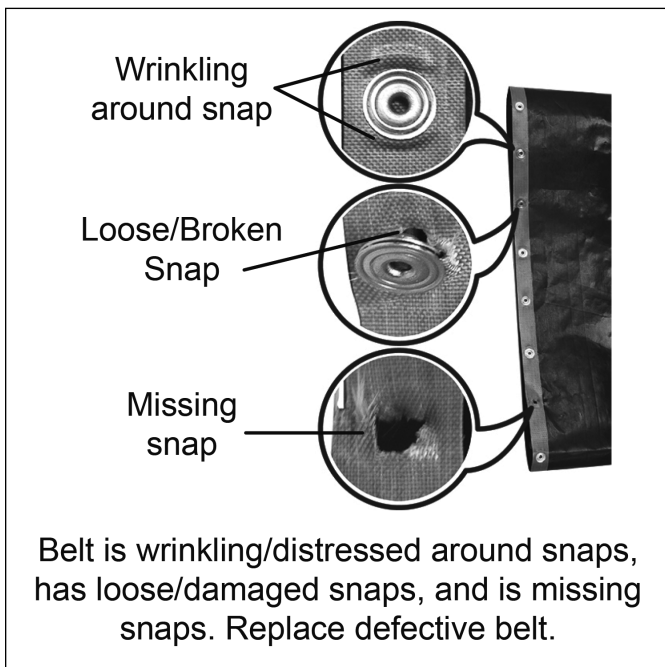


Figure 5. Example of Damaged Belt

Repeat this step several times if there is heavy carbon buildup on the conveyor belt.

8. Wash, rinse, and sanitize the bun feeder and bun stop in the three-compartment sink.
9. Wash, rinse, and sanitize the front and rear conveyor covers in the three-compartment sink.
10. Reinstall the clean front and rear conveyor covers.
11. Reinstall the clean bun feeder and clean bun stop.
12. Clean the outside surfaces of the toaster with a clean sanitizer-soaked towel sprayed with Heavy Duty Degreaser solution. Rinse with a clean, sanitizer-soaked towel and allow to air dry.
13. Turn the unit on.
14. Place all used towels into the soiled towel bucket.

MAINTENANCE (continued)

Replacing Belts (Quarterly)

Over time, the Belts will begin to show signs of wear. This wear appears in the form of tears or discoloration of the belt, at which point the belts should be replaced.

REMOVING BELTS

1. Turn the toaster's power switch to the off position. The toaster enters a cool-down mode and will automatically shut down when complete.
2. Unplug the power cord once the cool-down period is complete.
3. Put on neoprene gloves. Remove the Bun Feeder.
4. Remove the Front and Rear Conveyor Covers by lifting up and away from the toaster.
5. Set the Compression Knob to 7.
6. Unlock the latch and open the left side panel.
7. To lock the front Conveyor Roller, face the front of the toaster. Use both hands and push down on the Front Conveyor Roller and pull towards you. This removes tension and locks the roller in place (Figure 7).
8. To lock the Rear Roller, face the rear of the toaster. Use both hands and push down on the Rear Conveyor Roller and pull towards you. This removes tension and locks the roller in place (Figure 7).
9. Lift the upper Belt Frame Lock. Then rotate down so it rests on the cam shaft of the rear conveyor roller. (Figure 8).
10. Pull down the lower Belt Frame Lock (Figure 8).
11. Remove and discard the Front Belt (the recommendation is to cut it in half so it cannot be used again). See Figure 9.
12. Remove and discard the Rear Belts (the recommendation is to cut them in half so they cannot be used again). See Figure 9.
13. Wipe all four rollers with a clean towel sprayed with sanitizer. Make sure to remove all debris from the rollers so they are as clean as possible.

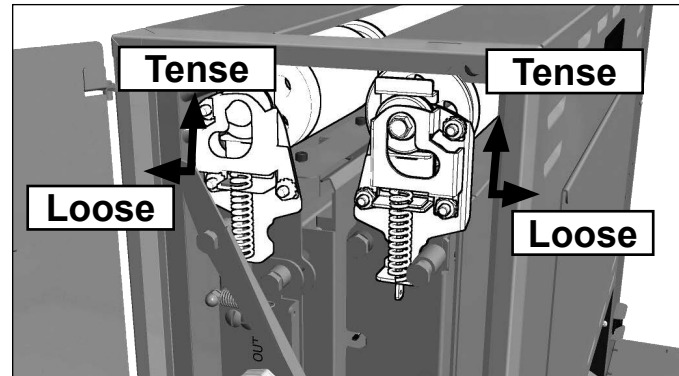


Figure 7. Conveyor Rollers

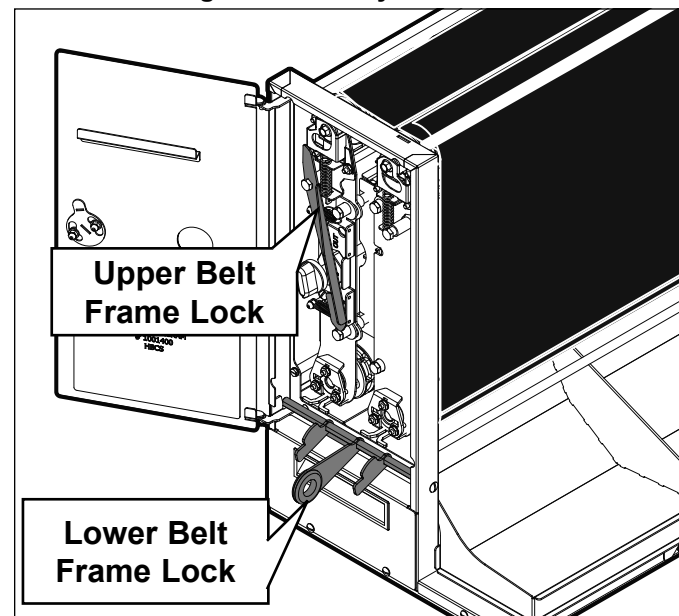


Figure 8. Conveyor Locks

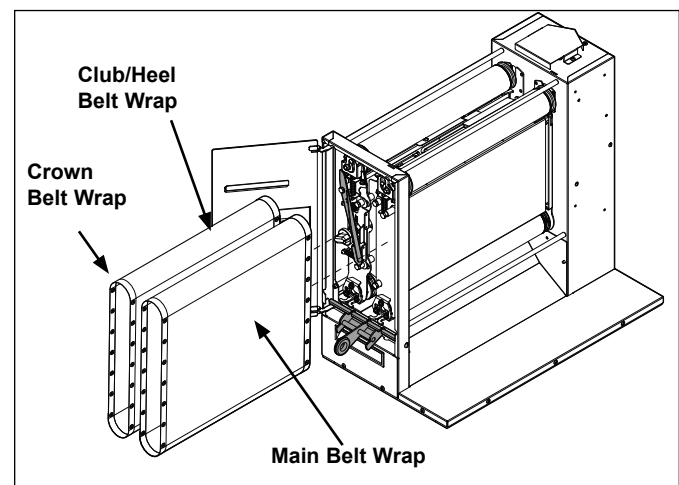


Figure 9. Remove and Discard the Belts
DO NOT REUSE THE BELTS!

MAINTENANCE (continued)
INSTALLING BELTS

1. Follow the steps for *Removing Belts*.
2. Wipe both sides of the new Belts with a clean, sanitized towel sprayed with an approved sanitizer and allow to air dry.
3. Wipe all four rollers and the backing plate with a clean towel sprayed with sanitizer. Make sure to remove all debris from the rollers and backing plate so they are as clean as possible.
4. Slide the new front belt gently over the front top roller and front bottom roller.

NOTE: Make sure the belt lines up properly on the rollers. The snaps on the belts should face the inside of the top front roller.

5. Slide the first crown belt over the rear top roller and rear bottom roller. Repeat this step for the club/ heel belt and the second crown belt.

NOTE: Make sure the belt lines up properly on the rollers. The snaps on the belts should face the inside of the top rear roller.

6. Return the Front and Rear Belt Rollers to full tension by lifting them up so each roller locks into place (Figure 10).
7. Slowly lift up the Lower Belt Frame Lock so the Front and Rear Belt Rollers lock into place (Figure 11). If necessary, lift up the cam shaft of the Rear Belt Roller while lifting the Lower Belt Frame Lock into place.
8. Re-engage the Upper Belt Frame Lock by lifting up and then locking it in place on the Front Conveyor Assembly (Figure 11).
9. Close and latch the Side Panel.

NOTE: Inform the Store Manager after any Belt Replacement so new Belts can be ordered. To obtain new Belts, contact the factory at 1-877-392-7854 (North America only) or 630-784-1000.

10. Set the Compression Knob to 4.
11. Re-install the Front and Rear Conveyor Covers and then the Bun Feeder Assembly.
12. Plug in the toaster and test the unit before returning to service.

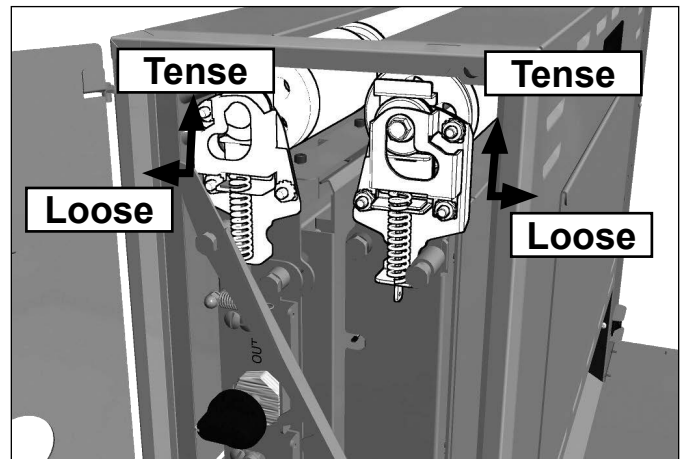


Figure 10. Conveyor Rollers

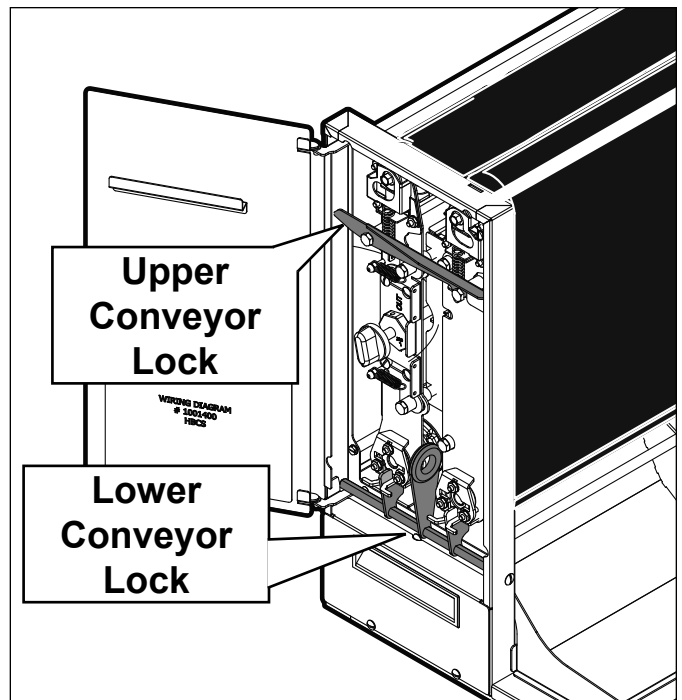


Figure 11. Conveyor Locks

MAINTENANCE (continued)

Cleaning the Top Cooling Fan and Electrical Housing (Annually)

Follow these steps to clean the top fan.

1. Turn the power switch to the OFF position. The toaster enters a cool-down mode and will automatically shut down when complete. Unplug the power cord.
2. Facing the front of the toaster, move to the right Side Panel. Remove the 2 top screws from the right Side side Panel and lower the panel (Figure 12).
3. Use a plastic brush or similar tool to brush all 5 fan blades from beneath. Be sure to remove all debris.
4. Carefully clean any debris from the inside floor of the control compartment and from all electrical connections. Be sure to remove any grease, lint, or debris from these areas.
5. Attach the right Side Panel and secure with screws.

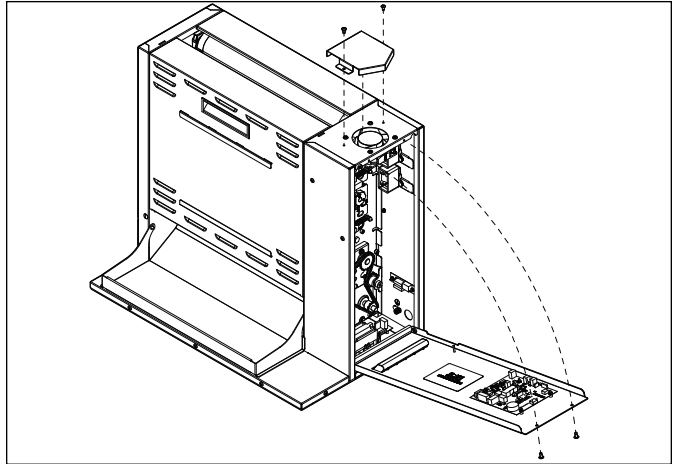


Figure 12. Accessing Top Cooling Fan

Cleaning the Rear Cooling Fan and Electrical Housing (Annually)

Follow these steps to clean the rear fan.

1. With the unit off, remove the 3 rear screws securing the rear access panel and carefully lower the panel (Figure 13).
2. Use a plastic brush or similar tool to brush all 5 fan blades free of debris.
3. Carefully clean any debris from the floor of the toaster and from all electrical connections. Be sure to remove any grease, lint, or debris from these areas.
4. Attach the rear panel and secure with the 3 screws.

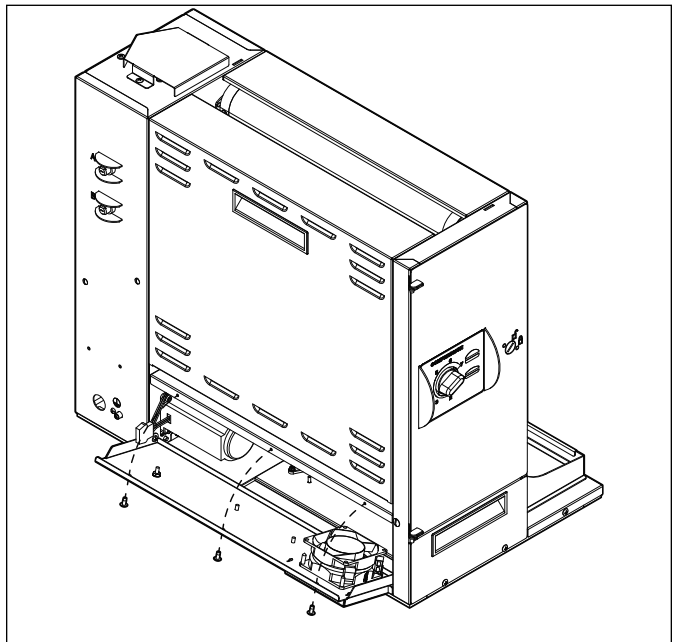


Figure 13. Accessing Rear Cooling Fan

NOTE: Be careful not to pinch wiring upon closing the rear panel.

5. Plug in the power cord, turn the power switch on, and test the toaster for proper operation.

TROUBLESHOOTING

Problem	Possible Cause	Corrective Action
Control Display flashes Err 5 continuously. Buns not toasting properly.	The A Platen temperature has not reached the setpoint temperature within 20 minutes.	Allow the unit to warm up for 30 minutes and then recheck. If the Control Display still flashes Err 5 , contact your maintenance person or Authorized Service Agency for service.
	Failed A Platen Thermocouple.	Contact your maintenance person or Authorized Service Agency for service.
	Failed Control Board	
Control Display flashes Err14 continuously. Buns not toasting properly.	The B Platen temperature has not reached the setpoint temperature within 20 minutes.	Allow the unit to warm up for 30 minutes and then recheck. If the Control Display still reads Err 14 , contact your maintenance person or Authorized Service Agency for service.
	Failed Rear Platen Thermocouple.	Contact your maintenance person or Authorized Service Agency for service.
	Failed Control Board.	
Control Display flashes Err 9 continuously.	Control Compartment ambient temperature is above 150° F (66° C)	Verify side vents on toaster are unblocked and not near other heating appliances. If problem persists, contact your maintenance person or Authorized Service Agency for service.
	Failed Cooling Fan.	
	Failed Control Board	
Control Display Flashes Err 19 continuously. Buns Burn.	Failed A Platen Solid State Relay.	Contact your maintenance person or Authorized Service Agency for service.
	Failed Control Board.	
	Failed A Platen Thermocouple.	
Control Display flashes Err 18 continuously. Buns Burn.	Failed B Platen Solid State Relay.	Contact your maintenance person or Authorized Service Agency for service.
	Failed Control Board.	
	Failed B Platen Thermocouple.	
Control Display flashes Err 13 continuously. Buns not toasting properly.	Loose A Platen Thermocouple connection on Control Board or the Front Platen Thermocouple is open.	Re-secure the A Platen Thermocouple to the Control Board. If the Control Display still reads Er 13 , check the front Thermocouple for continuity. Contact your maintenance person or Authorized Service Agency for service.
	Failed Control Board.	
Control Display flashes Err 11 continuously. Buns not toasting properly.	Loose B Platen Thermocouple connection on Control Board or the Rear Platen thermocouple is open.	Re-secure the B Platen Thermocouple connection to the Control Board. If the Control Display still reads Er 11 , check the Rear Thermocouple for continuity. Contact your maintenance person or Authorized Service Agency for service.
	Failed Control Board.	
Control Display flashes Err 12 continuously. Buns not toasting properly.	Shorted A Platen Thermocouple to ground.	Disconnect and re-secure the A Platen Thermocouple connection to the Control Board. If the Control Display still reads Er 12 , check the Rear Thermocouple for continuity. Contact your maintenance person or Authorized Service Agency for service.
	Failed Control Board	
Control Display Flashes Err 10 continuously. Buns not toasting.	Shorted B Platen Thermocouple to ground.	Re-secure the B Platen Thermocouple connection to the Control Board. If the Control Display still reads Er 10 , check the Rear Thermocouple for continuity. Contact your maintenance person or Authorized Service Agency for service.
	Failed Control Board.	

TROUBLESHOOTING (continued)

Problem	Possible Cause	Corrective Action
Control Display flashes Err 20 .	Mechanical bind in one or both conveyors.	Enter "user mode" to check the motor speed. Check both conveyors for mechanical binds. Test the motor. Replace necessary parts. Contact your maintenance person or Authorized Service Agency for service.
	Worn or damaged Ball Bearings.	
	Drive chain or sprockets damaged.	
	Failed Motor.	
	Failed Control Board.	
Control Display flashes Err 8	Motor is running when it shouldn't be.	Contact your maintenance person or Authorized Service Agency for service.
Crowns and/or Heels must be forced into the toaster. Buns sticking and burning.	PTFE Belts not cleaned properly.	Clean PTFE Belts as described in the Maintenance section of this manual.
	PTFE Belts are dirty, worn, or damaged (replace every 3 months).	Clean or replace Silicone Belts as described in the Maintenance section of this manual.
Buns not toasting adequately or too light/dark.	One of the Conveyor top shafts is stuck in the lower lock position.	Inspect positions of the shafts as described in the Maintenance section of this manual.
	Either both Upper/Lower Conveyor locks are not properly locked in place. To adjust compression, light/dark setting, and/or temperature, see page 7.	Inspect the proper position of the locks as described in the Maintenance section of this manual.
Compression side door will not close.	Either both Upper/Lower Conveyor Locks are not properly locked in place.	Inspect the proper position of the locks as described in the Maintenance section of this manual.
	The lock on the Compression Side Door is in the locked position when trying to close the door.	Turn the lock to the unlocked position before closing the door.
Fan is making an unusual sound.	Failed Cooling Fan.	Verify vents on toaster are unblocked and not near other heating appliances. Clean fans as described in the Maintenance section of this manual. If problem persists, contact your maintenance person or Authorized Service Agency for service.
	Cooling Fan is dirty and needs to be cleaned.	
Control Display flashes Err 17 continuously. Buns are not toasting properly.	A platen Hi-Limit Control is tripped.	Allow the unit to cool and reset the A platen Hi-Limit Control. If it trips again, contact your maintenance person or Authorized Service Agency for service.
Control Display flashes Err 16 continuously. Buns are not toasting properly.	B Platen Hi-Limit Control is tripped.	Allow the unit to cool and reset the B platen Hi-Limit Control. If it trips again, contact your maintenance person or Authorized Service Agency for service.

TROUBLESHOOTING (continued)

Problem	Possible Cause	Corrective Action
Control Display is blank.	Power Cord is not plugged in.	Plug the Power Cord into the appropriate outlet. Turn the toaster on. If the Control Display is still blank, contact your maintenance person or Authorized Service Agency for service.
	Circuit Breakers turned off or tripped. Damaged electrical outlet, plug, or Power Cord. Power Switch damaged.	Reset Circuit Breakers. If they trip again, check the Power Cord, Plug, and outlet for damage. Contact your maintenance person, Authorized Service Agency, and Electrician for service.
	Faulty Transformer.	Replace Transformer.
Conveyors not turning.	Motor Drive Chain is detached from sprockets.	Reinstall the Drive Chain.
	Drive Chain needs lubrication.	Lubricate Drive Chain with Lubit-8 (P/N 2140152).
	Failed Drive Motor.	Contact your maintenance person or Authorized Service Agency for service.
Control Display flashes Err 1, 2, 3, 5, 6, 7, or any number above Err 20.	Internal Control Board fault.	The Control Board needs to be replaced. Contact your maintenance person or Authorized Service Agency for service.

REPLACEMENT PARTS

Item	Part No.	Description	Qty.
1	0012603	Sprocket / Tensioner Bracket Assy	1
2	0012592	Sprocket /Bearing Assembly	1
3	0506185	Bracket, Chain Tensioner	1
4	2140109	Loctite # 242 (Blue)	1
5	331P101*	Nut, Hex 5/16 - 18	1
6	331P103*	Shoulder Bolt 3/8" X 1"	1
7	331P106*	Lock Washer	1
8	0012604	Sprocket / Retainer Assy	1
9	0012592	Sprocket /Bearing Assembly	1
10	0506146	Retainer Idler	1
11	2120118	Washer, Flat	1
12	2140109	Loctite # 242 (Blue)	2
13	331P101*	Nut, Hex 5/16 - 18	1
14	331P103*	Shoulder Bolt 3/8" X 1"	1
15	331P106*	Lock Washer	1
16	0012814	Cam Bracket And Thrust Strip Assembly, LH	1
17	0506096	Cam Bracket, LH	1
18	2100336	Thrust Strip, Teflon	1
19	0013167	Housing Assembly	1
20	0013166	Base / Heater Assembly	1
21	0021689	Weldment, End Housing	1
22	0021714	Weldment, End Housing Rod Support	1
23	0022117	Weldment, Inner Base	1
24	0022118	Weldment, Control Housing	1
25	0200345	Base Gasket, 23.94" Lg	2
26	0200355	Base Gasket, 11.30" Lg	2
27	0400119	Bushing, Shorty 5/8"	2
28	0400418	Push In Grommet For 1-1/8" Dia. Hole	1
29	0506083	Spacer	2
30	0506174	End Covr Bottom	1
31	0800474	Rod, Belt Cover	4
32	2100212	Handle, Pocket Pull, Snap-In	1
33	2140101	Adhesive/ Sealant - Rtv	1
34	2140109	Loctite # 242 (Blue)	1
35	308P144*	Screw, #8-32 X 1/4" (#6 Head)	1
36	308P157*	Screw, Tap 8-32 X 3/8"Lg	7
37	308P203*	Screw, Tap 8-32 X 3/8" W/Int. Tooth Washer	11
38	310P102*	Washer, Int. Tooth-Lock,#10	8
39	310P110*	Screw, Mach. #10-32 X 1/2"	2
40	310P199*	Scr, #10-32 X 3/8 Lg Socket Hd Cap	8
41	310P204*	Fillister Head Phillips Screw # 10-32 X .25	4
42	0013168	Electrical Panel Assembly	1
43	0022185	Electrical Panel Wldmnt	1
44	0506170	Fan Cover	1
45	1000900	Label - Warning	1
46	1001213	Label - Shock Hazard	1
47	308P124*	Screw, Mach One-Way #8-32	1
48	308P143*	Nut, Hex 'Keps' #8-32	1
49	310P213*	Screw, Phphnd #10-16 X 3/4" Thrd Form	4
50	4000202	Fan, Axial - 230V, Metal Housing & Imp	1
51	0013178	Adj. Platen Assembly	1
52	0013181	Relay - Sink Bracket Assy	1
53	0507247	Heat Sink, Relay	1
54	308P157*	Screw, Tap 8-32 X 3/8"Lg	4
55	4010187	Transformer, 240 Vac/12Vac	1

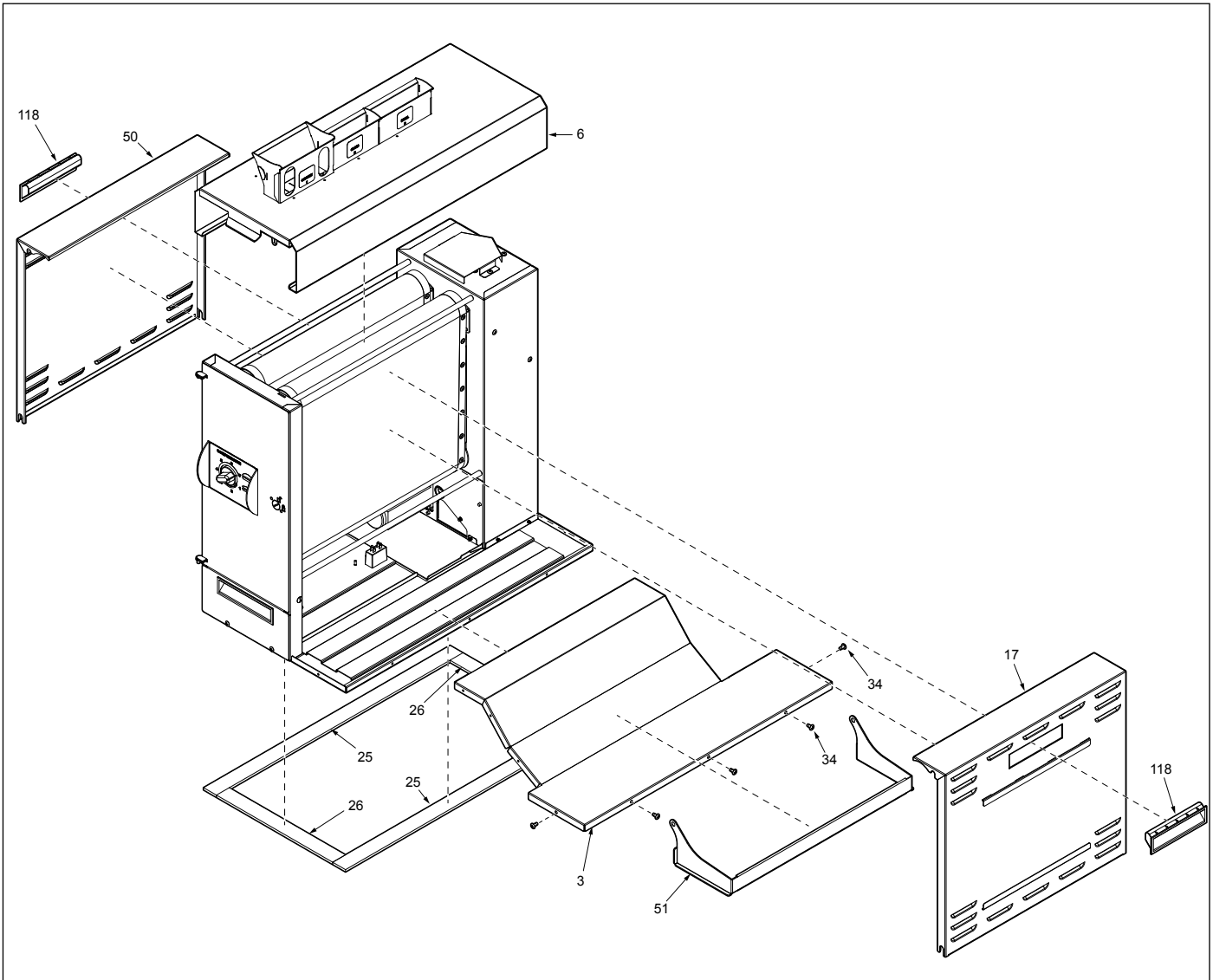
Item	Part No.	Description	Qty.
56	4050240	Relay, Solid State Dual Pole W/Conn-Recept	1
57	0013182	Control Cover Assembly	1
58	0022110	Weldment, Control Housing Cover	1
59	1000900	Label - Warning	1
60	1001213	Label - Shock Hazard	1
61	1001561	Label, Id - A	1
62	1001562	Label, Id - B	1
63	1001598	Wiring Diagram Label	1
64	1001599	Label, Control	1
65	1001600	Label Chinese Translation (Mfg. No. 9210862 only)	1
66	2100212	Handle, Pocket Pull, Snap-In	1
67	2180445	Edge Trim Piece, 7"	1
68	304P105*	Nut, Hex 'Keps' #4-40	5
69	4070230	Asy-Pcb, Main Go To Market (Mcd)	1
70	0013183	Motor / Sprocket Assembly	1
71	0506157	Motor Plate	1
72	2140109	Loctite # 242 (Blue)	2
73	2150316	Sprocket, 25B12 3/8" Bore	1
74	310P199*	Scr, #10-32 X 3/8 Lg Socket Hd Cap	4
75	4000186	Motor, 230V	1
76	0013184	Cam Brkt & Thrust Strip Assy, Rh	1
77	0013185	End Cover Assembly	1
78	0021713	Weldment, End Housing Panel	1
79	0021723	Weldment, End Cover Lock	1
80	0506083	Spacer	2
81	0506142	Spacer, .406 X .172 X .048	2
82	1001417	Label, Compression	1
83	308P223*	Washer, Flat #8	2
84	308P340*	Nut, Hex Acorn Lock #8-32	2
85	0013217	Bun Feeder Assembly	1
86	0021983	Weldment, Thermocouple Tube	1
87	0022101	Weldment, Idler Roller Front Top	2
88	0022103	Weldment, Drive Roller Front Bottom	2
89	0022111	Weldment, Conveyor Cover - Front	1
90	0022114	Cover Weldment	1
91	0022115	Weldment, Adj. Platen Frame	1
92	0022116	Weldment, Fixed Platen Frame	1
93	0022283	Wment, Bearing Brkt & Spring Guide- LH	2
94	0022284	Wment, Bearing Brkt & Spring Guide - RH	2
95	0100292	Platen, Main 230V, 2300W	1
96	0400147	Bushing, Shorty 7/8"	1
97	0400427	Insulation, Main Platen	1
98	0504320	Spacer 0.781 X 1.125 X 0.06"	10
99	0506144	Plate, Tensioner Rh	2
100	0506163	Bracket, Tensioner	2
101	0506167	Bracket, Bearing	2
102	0506278	Spacer, .312 X .187 X .105	3
103	0506291	Bracket, Tensioner- End Housing, Rear	1
104	0506292	Bracket, Tensioner- End Housing, Front	1
105	0506293	Plate, Tensioner - End Housing, Rear	1
106	0506294	Plate, Tensioner - End Housing, Front	1
107	0506736	Bracket, Housing Locking	1
108	0507112	Support Bracket, RH	1
109	0507113	Support Bracket, LH	1
110	0507114	Back Conveyor Cover	1
111	0507115	Bracket, Bun Stop	1

REPLACEMENT PARTS (CONTINUED)

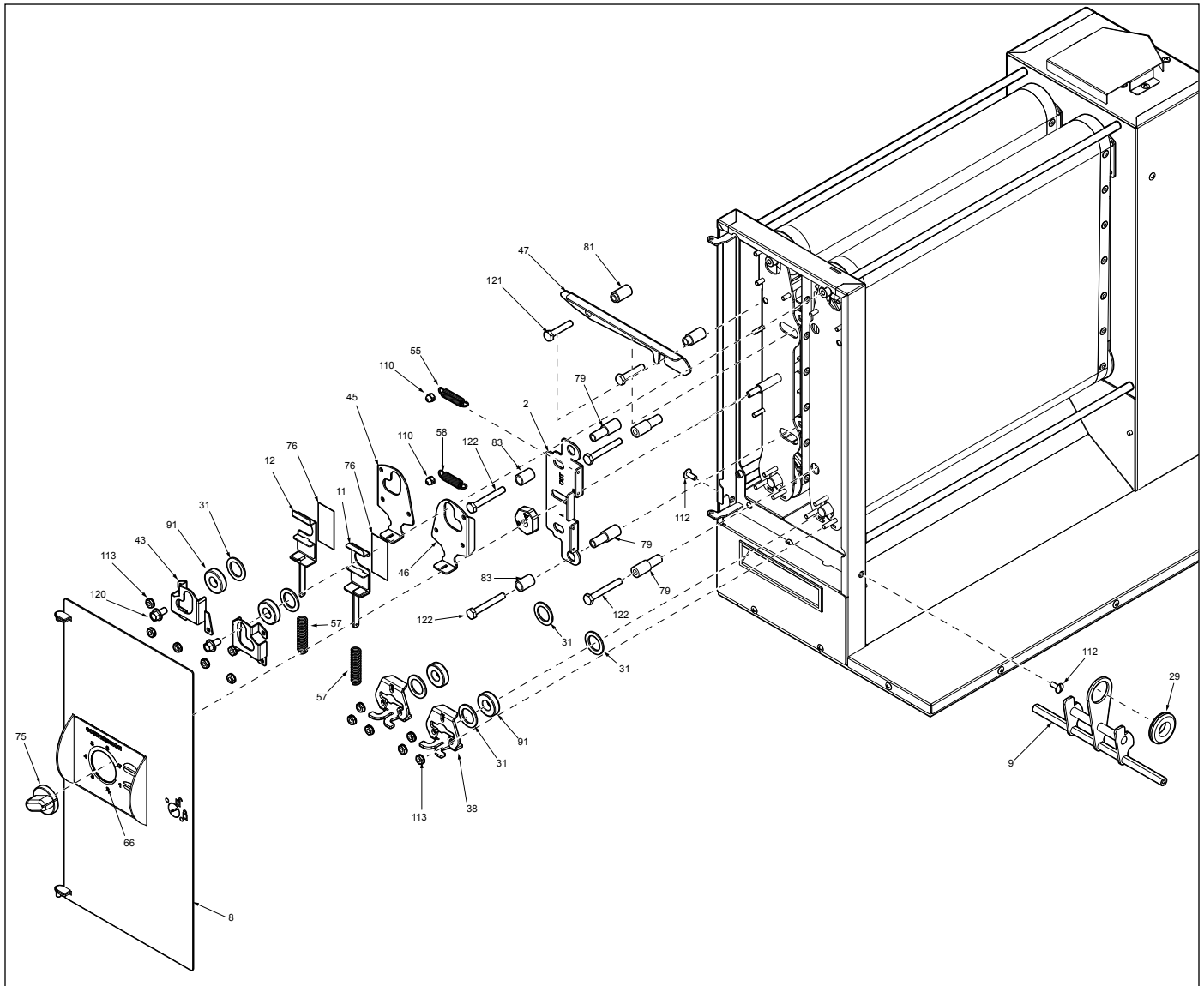
Item	Part No.	Description	Qty.
112	0507129	Insulation Plate	1
113	0507246	Cover, Duct Fan	1
114	0600143	Spring, Compression Setting	2
115	0600157	Spring, Chain Tension	2
116	0600158	Spring, Roller Tension	4
117	0600159	Spring, Cam Adj	2
118	0700940	Wire Set (Club Voltage)	1
119	0700941	Wire Set (Ctrl Board)	1
120	0700942	Wire Set (Fan Xfme)	1
121	0700943	Wire Set (Ssr Hi Volt)	1
122	1001452	Label, Pvc Removal	1
123	21000-0043	Spacer, 3/8 Cbs Thread Female	2
124	2100212	Handle, Pocket Pull, Snap-In	2
125	2100253	Knob, 1/4" Shaft, Push-On	1
126	2100334	Thrust Strip, Teflon	4
127	2110197	Clip, Steel Cable	1
128	2120213	Spacer, Frame & Platen Lh	4
129	2120216	Spacer, Upper Locking Plate, Front	1
130	2120217	Spacer, Upper Locking Plate, Rear	1
131	2120221	Spacer, 0.69 X 0.503 X 0.359	2
132	2120223	Sleeve Bearing, .50" Od X .75" Lg	2
133	2120224	Sleeve Bearing, .50" Od X .375" Lg	2
134	2120260	Spacer, Adjustable Frame Rh	2
135	2120263	Spacer, Platen Rh	2
136	2140109	Loctite # 242 (Blue)	1
137	2140125	Lubricant, White, Ptfе	1
138	2150185	Sprocket, 25B18, 1/2" Bore	2
139	2150285	Bearing, Single Groove S/S	8
140	2150324	Chain, Drive	1
141	2150362	Cam, Hbcs	2
142	2150406	Cam Shaft	1
143	3000123	Ring, Retaining, External	4
144	304P105*	Nut, Hex 'Keps' #4-40	2
145	306P130*	Nut, Hex Keps #6-32 (Small Pattern)	3
146	308P102*	Washer, Int. Tooth #8	4
147	308P124*	Screw, Mach One-Way #8-32	1
148	308P142*	Washer, Flat #8	3
149	308P143*	Nut, Hex 'Keps' #8-32	7
150	308P157*	Screw, Tap 8-32 X 3/8" Lg	11
151	308P164*	Screw, Mach. #8-32 X 1"	4
152	308P203*	Screw, Tap 8-32 X 3/8" W/Int. Tooth Washer	1
153	308P340*	Nut, Hex Acorn Lock #8-32	4
154	310P146*	Nut, Hex 'Keps' #10-32	26
155	310P187*	Screw Set, #10-32 X 3/8" Hex Socket-Cone Point	2
156	310P213*	Screw, Phpnhd #10-16 X 3/4" Thrd Form	4
157	310P214*	Screw, Hex #10-32 X 1/2"	18
158	325P109*	Screw, Hexcap 1/4-20 X 1/2"	5

Item	Part No.	Description	Qty.
159	325P176*	Screw, Flange Hex Head Cap	2
160	325P193*	Screw, Hex Head, #1/4-20 X 1.375", S.S.	6
161	325P194*	Screw, Hex Head, #1/4-20 X 2.00", S.S.	4
162	4000202	Fan, Axial - 230V, Metal Housing & Imp	1
163	4010221	Cap-Mp, Motor Run	1
164	4030352	Thermostat, Hi-Limit 700°F	2
165	4050236	Contacto, 2 Pole No	1
166	4051045	Thermocouple Type "K" (Open End)	2
167	4060107	Cable Tie, 1/8W X 5"	1
168	4060374	Ground Lug	1
169	4060442	Plastic Cable Tie	1
170	4070154	Varistor Board	1
171	4070198	Snubber Board	1
172	Ter62-0006	Term-Recept 3/16" Faston .135" Max	1
173	7001070	Main Belt Wrap	1
174	7001071	Rear Belt Wrap	1
175	7001072	Belt Wrap Replacement Kit	1
176	0400375	Strain Relief, Cord Connector	1
177	0400376	Lock-Nut, Conduit 3/4" Npt	1
178	0700947	Power Cord Assembly	1

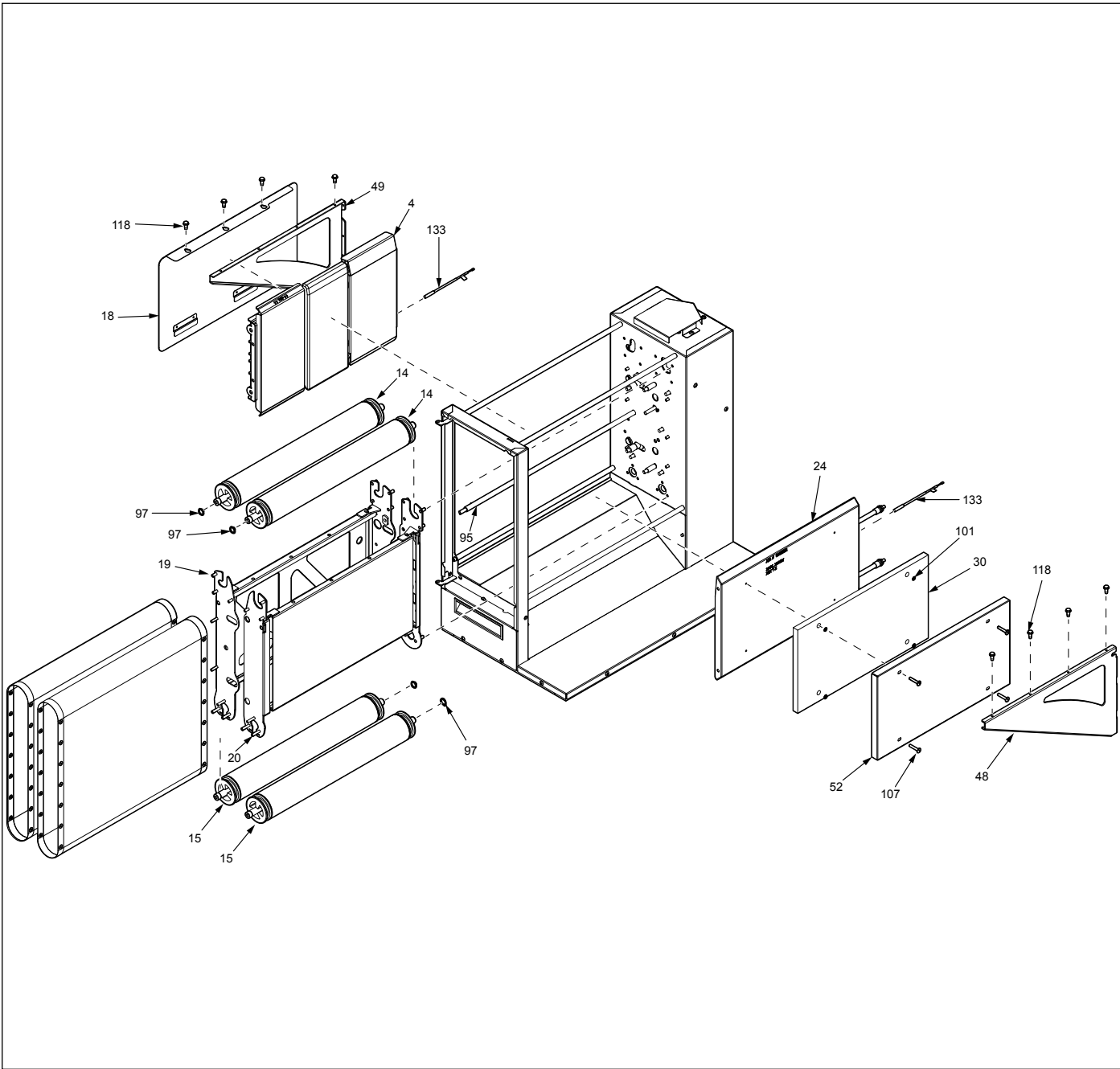
REPLACEMENT PARTS (CONTINUED)



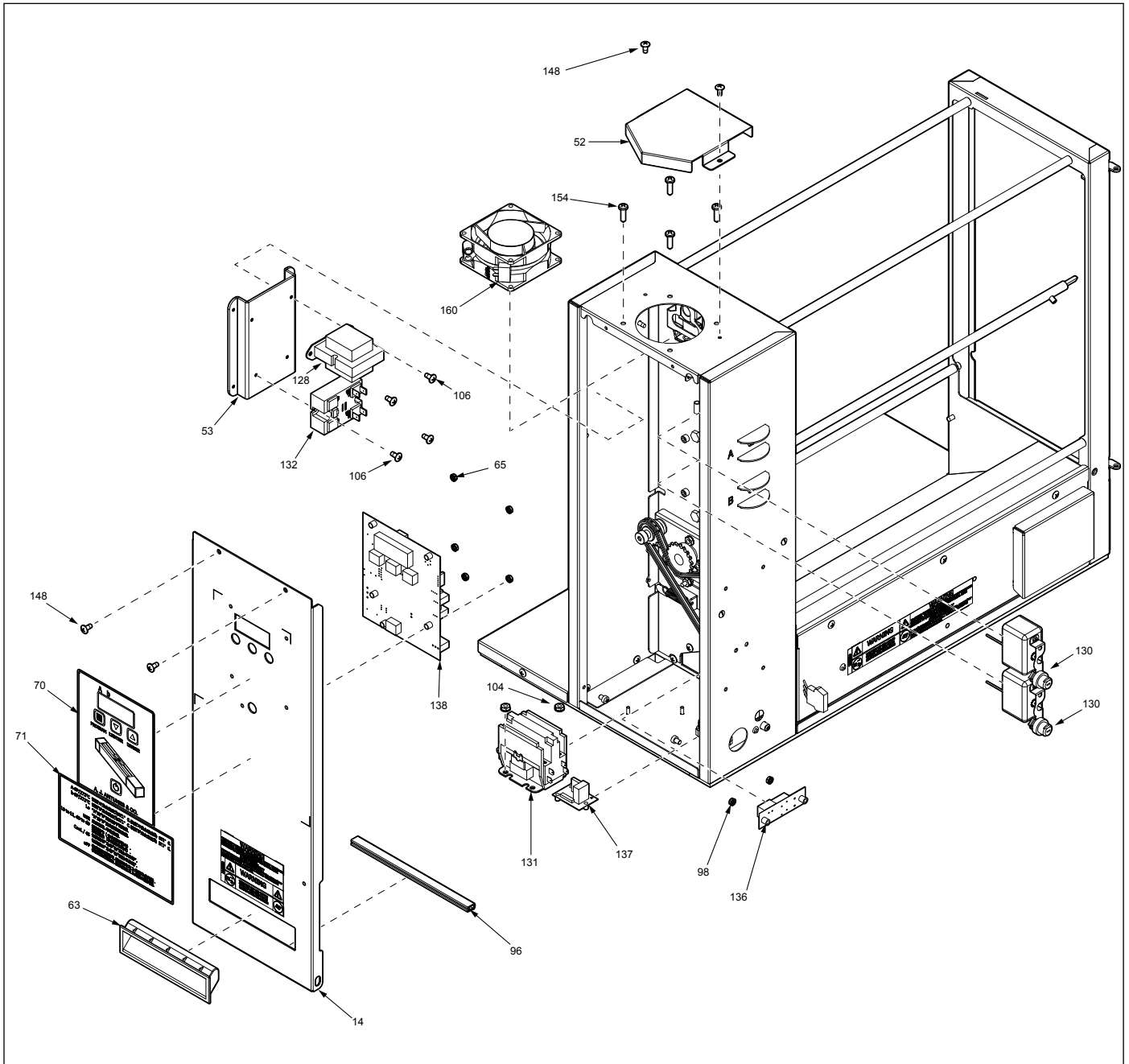
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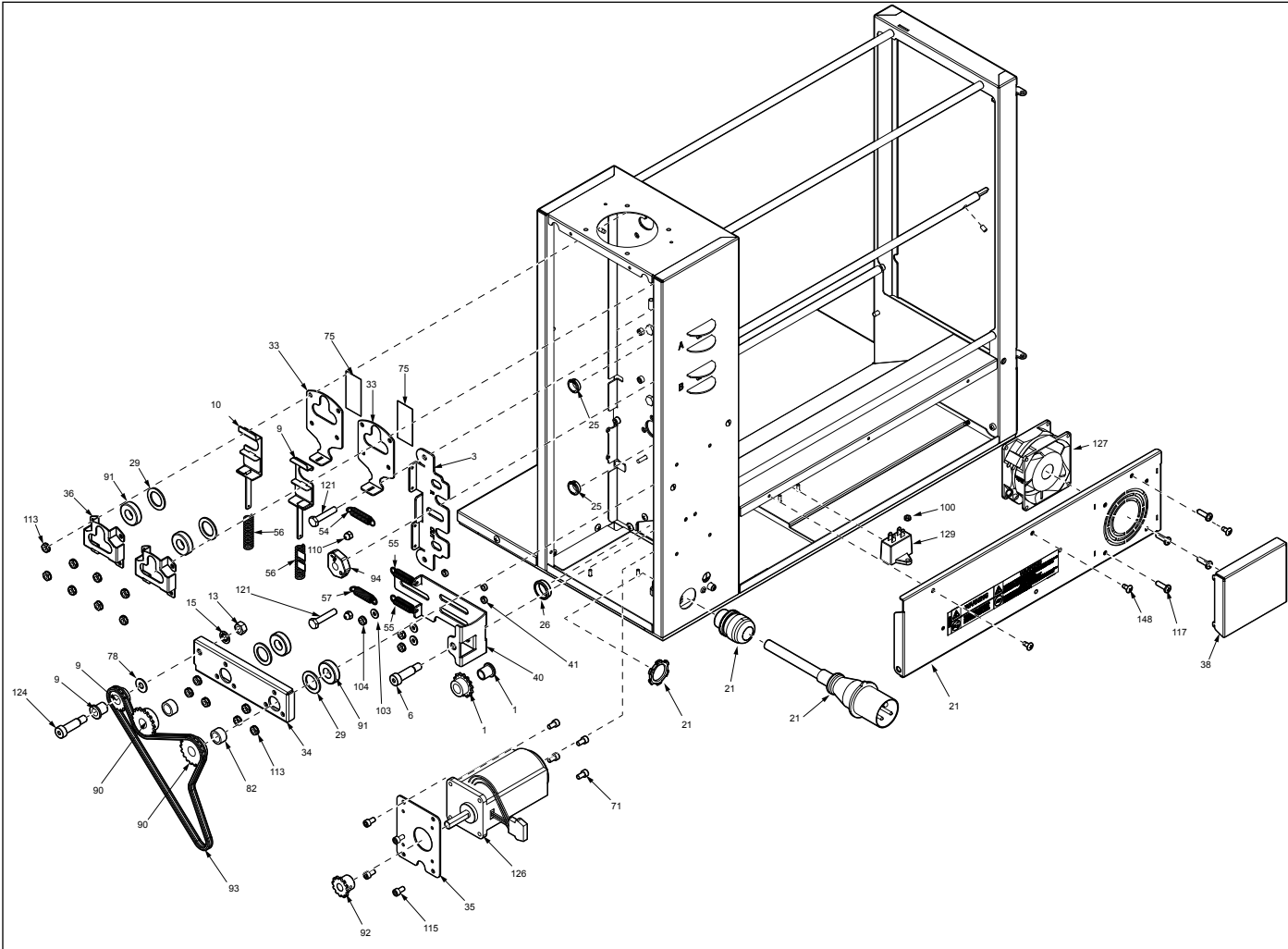
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REPLACEMENT PARTS (CONTINUED)



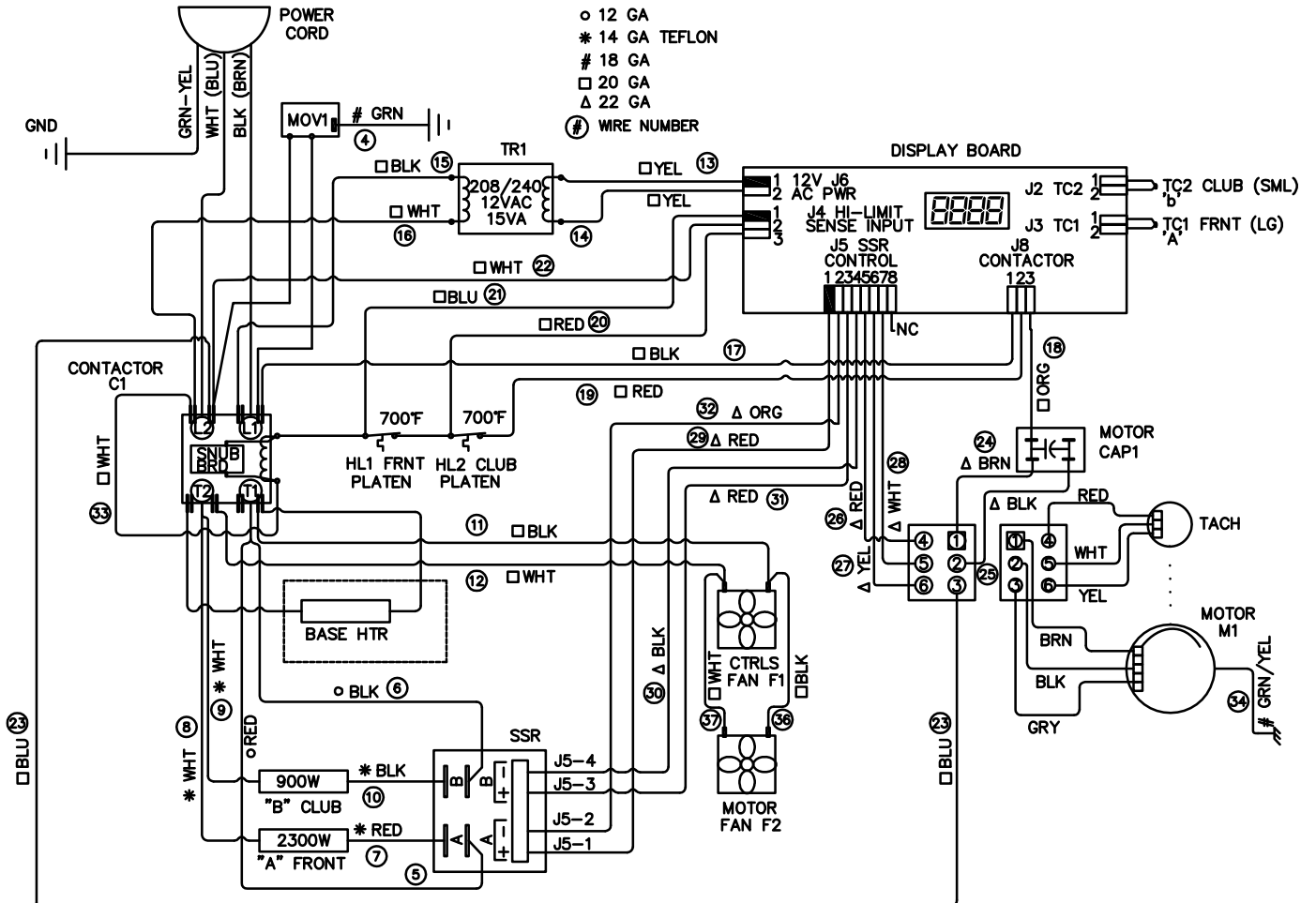
REPLACEMENT PARTS (CONTINUED)



WIRING DIAGRAM

WIRE LEGEND

- 12 GA
- * 14 GA TEFLON
- # 18 GA
- 20 GA
- △ 22 GA
- ① WIRE NUMBER





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