Operation Manual

Product Holding Bin DHB3PT-41A/30

(with Prince Castle Button Bar)



LIMITED WARRANTY

This product is warranted to be free from defects in material and/or workmanship for a period of 1 years from date of original installation, not to exceed 24 months from the date of manufacture.

Any component which proves to be faulty in material and/or workmanship will be replaced or repaired (at the option of Prince Castle, Inc.) without cost to the customer for parts and labor. This warranty covers on location service (i.e. trip charges and or mileage). Travel mileage is limited to 100 miles (200 Kilometers) round trip (one trip warranty) from an authorized service agency or its sub-service agency.

This warranty is subject to the following exceptions/conditions:

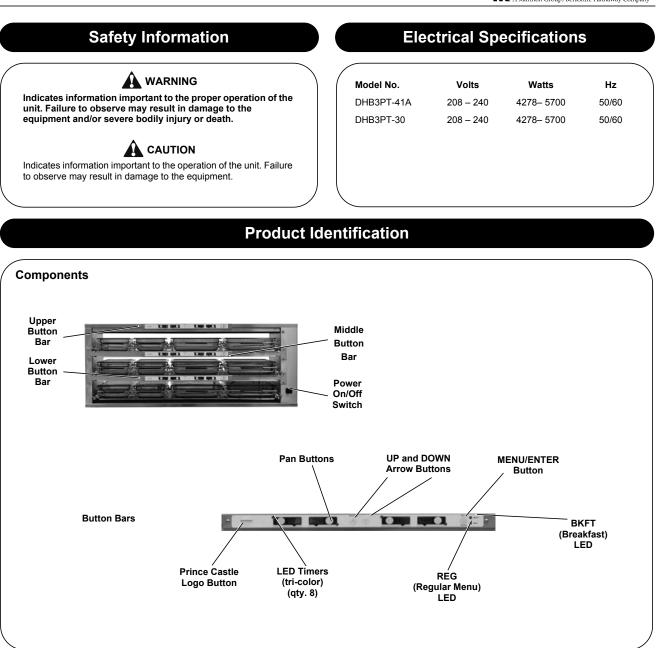
- · Use of any non-genuine Prince Castle parts voids this warranty.
- All labor to be performed during regular work hours. Overtime premium (the incremental amount) will be charged to the customer.
- Damage caused by carelessness, neglect and/or abuse (e.g., dropping, tampering or altering parts, equipment damaged in shipment, by fire, flood or an act of God) is not covered under this warranty.
- All problems due to operation at voltages other than that specified on equipment nameplates are not covered by this warranty. Conversion to correct voltage is the customer's responsibility.
- This equipment must be serviced by Prince Castle Authorized Service Agency or a Prince Castle Service Technician during the warranty period.

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Important

Prince Castle reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.

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Installation

Remove the unit from the carton and inspect for signs of damage. If there is damage to the unit:

· notify the carrier within 24 hours of delivery

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- · save carton and packaging materials for inspection purposes
- contact your local dealer, or if purchased directly, the Prince Castle Sales Department at 800-722-7853 or 1-630-462-8800 to arrange for a replacement unit.

NOTE: When installing this unit, the ambient temperature at the mounting site should not exceed 100°F (38°C).

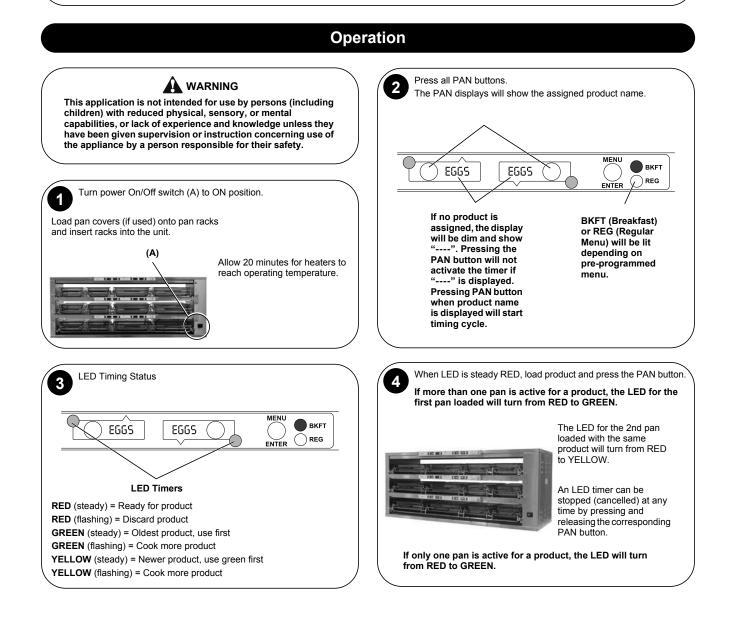
Plug the power cord into the proper electrical receptacle. All electrical connections must be in accordance with local electrical codes and any other applicable codes.

WARNING

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

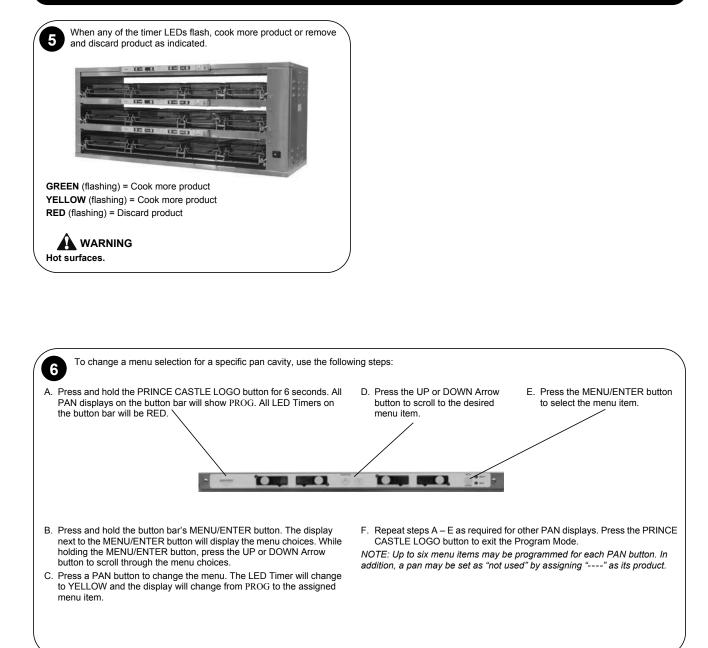
If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.

To prevent an electric shock hazard this device must be bonded to equipment in close proximity with an equipotential bonding conductor. This device is equipped with a grounding lug for this purpose and is marked with the following symbol.



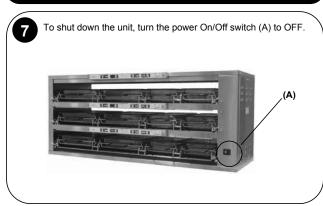
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Operation (continued)





Operation (continued)



Cleaning

Before performing any maintenance, turn the power switch to the OFF position and unplug the power cord from the electrical receptacle.



This unit is not watertight. Do not clean with a water jet/jet spray. Do not immerse the unit in water.

- 1. Turn the unit off.
- 2. Remove the pan covers and pan racks. Wipe all parts and unit with a damp cloth. DO NOT use a green Scotch Bright pad cleaner, ice or water.

Heater Temperatures

The bin heater temperature display and control have been incorporated into the POSA Main time bar of the Popeye's DHB3PT-41 bin. This bin has three Main timer bars on the front. Figure 1 shows the default bar positions POSA, POSB, and POSC. Refer to the Timer Bar Positions below. The timer bar set for position POSA control the bin heaters. The timer bars for positions POSB and POSC do not have heater control POSA- Θ 90 01 AUPR, Upper Heate Shelf A ALWR, Lower Heater POSB Θ 90 _01 **BUPR**, Upper Heate Shelf B BLWR, Lower Heater POSC 20 0 01 0 CUPR, Upper Heater Shelf C Bar CLWR, Lower Heater Position Figure 1

Note: These instructions are only for the bar set to position POSA.

On the Main timer bar, press the Prince Castle Logo and the Down Arrow buttons together and release. The displays will show temperature information for the uppermost heater as show in Table 1 below. The temperatures show are examples only.

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Та	ble	1

 Set Temperature	Actual Temperature	Heater Location	Heater Indicator	
225S	224A	AUPR	↑↓ H	

Set Temperature: The current temperature goal for the displayed heater

Actual Temperature: The current actual temperature for the displayed heater.

Heater Location: This is the heater location within the bin shelf being displayed. Each heater extends to the entire width and depth of the shelf. Heat Indicator: H will be shown when the bin controller has turned on the heater. H will flash when a fault condition exists for the displayed heater.

To display information for the other heaters in the bin, press the Up or Down Arrow buttons to scroll through each heater display. Table 2 show the heater information that will be displayed. The temperatures and Heat Indicator displays show are examples only.

Table 2				
	Set Temperature	Actual Temperature	Heater Location	Heater Indicator
	225°F	226°F	AUPR	↑↓
	195°F	196°F	ALWR	↑↓
	225°F	227°F	BUPR	↑↓
	195°F	197°F	BLWR	↑↓
	225°F	224°F	CUPR	∕∿≁
	195°F	194°F	CLWR	∕т↓н

Heater fault indications will be displayed instead of an actual temperature in a heater error condition exists. These indications are:

Open Relay: Actual Temperature display alternates between OPEN and RELY

Shorted Relay: Actual Temperature display alternates between SHRT and RELY

High Temperature: Actual Temperature display shows HHHH

These fault indicators will be accompanied by the Heat Indicator display flashing H.

The Actual Temperature display will show LLL (low temperature) if the heater temperature is below 75°F, such as during warm-up.



Setting the Temperature (continued)

Cancel Heater Display:

To cancel the heater display and go back to normal timer displays, press the Prince Castle Logo and the Up Arrow buttons together and release. The displays will return to showing product names or remaining time if a timer is running. Also, the heater display will cancel itself after 20 seconds of no button presses

Changing Set Point Temperatures for Heaters:

Note: The upper and lower heaters in each shelf extend to the entire width and depth of the shelf.

1. Go to the heater display on the Main timer bar by pressing the Prince Castle Logo and the Down Arrow buttons together and release.

2. Press and hold the Prince Castle Logo button and then press and hold timer 4 button (4th timer button to the left of the Menu/Enter button.) Hold both for 6 seconds. The display will change to heater selection mode. For example:

Set Temperature		Heater Location	Heater Indicator
225°F	SEL	AUPR	t
and Down Arrow buttons to scrol nu/Enter button. The display will		0	
Set Temperature		Heater Location	Heater Indicator
225°F	SET	AUPR	↑↓

5. Use the Up and Down Arrow buttons to scroll to the desired heater set point temperature. To turn off the heater, scroll down until OFF is displayed.

6. Press the Menu/Enter button. The display changes back to select heater mode.

7. Repeat steps 3 to 6 for changes to other heaters.

8. Press the Logo button when finished with heater set point temperature changes. The display will return to the heater display.

9. Press the Logo and Up Arrow buttons together and release to return to the normal timer display. Also, the heater display will cancel itself after 20 seconds of no button presses.

Setting the Temperature (continued)

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Calibrating Heater Offset:

This program menu item is only available in the bar set for POSA. Note: Allow a sufficient amount of time for temperatures to stabilize before starting calibration.

Measuring temperature:

- 1. View the actual heater temperatures as described above.
- 2. Using stand-alone temperature meter (not supplied), take a temperature reading within the shelf near the center of the heater surface.
- 3. If the actual temperature displayed by the timer bar does not closely match the meter, the displayed temperature can be adjusted as follows.

Adjusting the temperature display:

1. On the Main timer bar, press and hold the Prince Castle Logo and Menu/Enter buttons together for 6 seconds. The display will change to program mode.

2. Use the Up and Down Arrow buttons to scroll to the CAL HTRS display.

3. Press the Menu/Enter button. THe display will show SEL AUPR for shelf A, upper heater.

4. Use the Up and Down Arrow buttons to scroll to the heater to adjust. THe display will cycle through heaters AUPR, ALWR, BUPR, CUPR and CLWR> See Figure 1 above for shelf and heater locations.

5. Press the Menu/Enter button. The display will show CAL AUPR (if AUPR was chosen) and the actual temperature number. This number may fluctuate by a degree since it is the actual temperature reading.

6. Press and release the Up or Down Arrow buttons to increase or decrease the displayed temperature number. The number can be increased by up to 20 degrees, or decreased by up to 20 degrees. The display may not change instantly. For example, if the display shows 200 and the handheld meter shows 205, press the Up Arrow button 5 times. THe display will increment for the number of button pushes until it shows 205. This number may fluctuate by a degree since it is the actual temperature reading.

7. Press the Menu/Enter button. The display will go back to CAL HTRS again.

8. Repeat this process for the other heaters.

9. Press the Prince Castle Logo button when done. The bar will return to normal operating mode.

Changing the Temperature Degree Scale:

This program menu item is only available in the bar set for POSA. Temperatures can be displayed in either degrees Fahrenheit (default) or Celsius

1. On the Main timer bar, press and hold the Prince Castle Logo and Menu/Enter buttons together of 6 seconds. The display will change to program mode.

2. Use the Up and Down Arrow buttons to scroll to the DEGR F/C display.

3. Press the Menu/Enter button. Either the F or C will begin flashing to indicate the currently selected scale, F (Fahrenheit) or C (Celsius).

Use the Up and Down Arrow buttons to change the selected scale.
Press the Menu/Enter button to accept any changes. The flashing will stop.

6. Press the Prince Castle Logo button when done. The bar will return to normal operating mode.



Positioning The Timer Bars

Timer Bar Positions:

This feature allows a single time bar model to be set to a specific position on a bin. The difference between positions is the layout of the menu items assigned to the individual timer channels. The bin heater controls are only available on the bar set to position POSA, and not available when set to positions POSB or POSC.

This set-up should only be done once, typically at the factory or during bar replacement in the field.

To set the main timer bar to a different position, perform the following:

1. On the Main timer bar, press the Prince Castle Logo, Up and Down buttons at the same time, holding for 6 seconds.

2. Release the buttons after the displays on the bar show:

POSN 1 ENTR POS	Λ	∱↓ ENT	R POS
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x = the current bar position setting

3. Use the Up and Down Arrow buttons to select the desired position. THe position choices are POSA, POSB, and POSC. The right most display shows the position letter to be selected.

4. To accept the displayed position, press the Menu/Enter button on the timer bar. To cancel without accepting, press the Prince Castle Logo button.

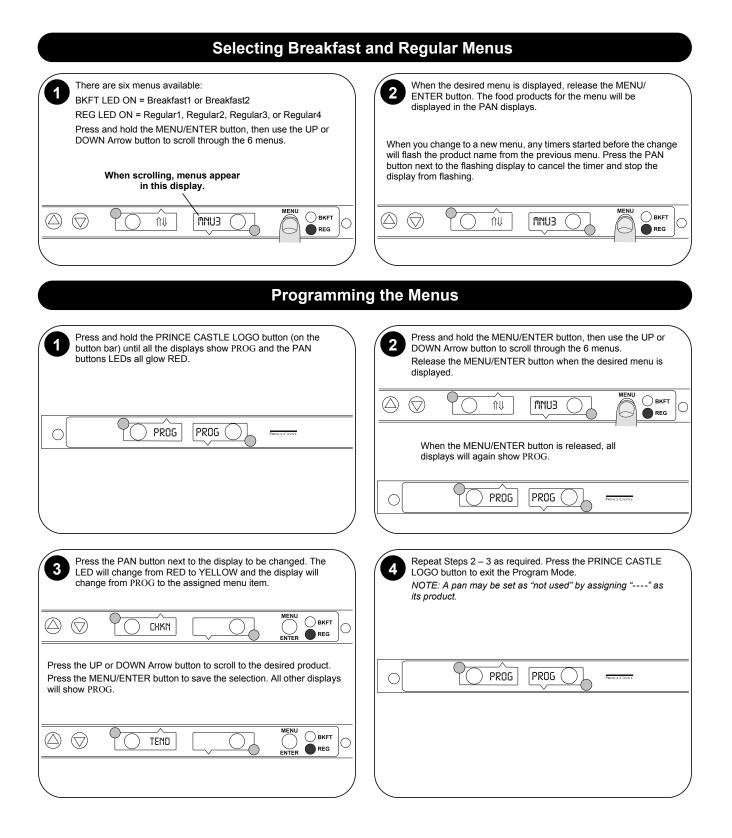
To check the current position, address setting and heater control enabled state on the Main timer bar without making a change, press and hold the Down Arrow button. Defaults for the timer bar position POSA as of software version 9.40 are displayed below:

	Software Version	Bar Position	Bar Address
VERS	9.40	POSA	BAR1

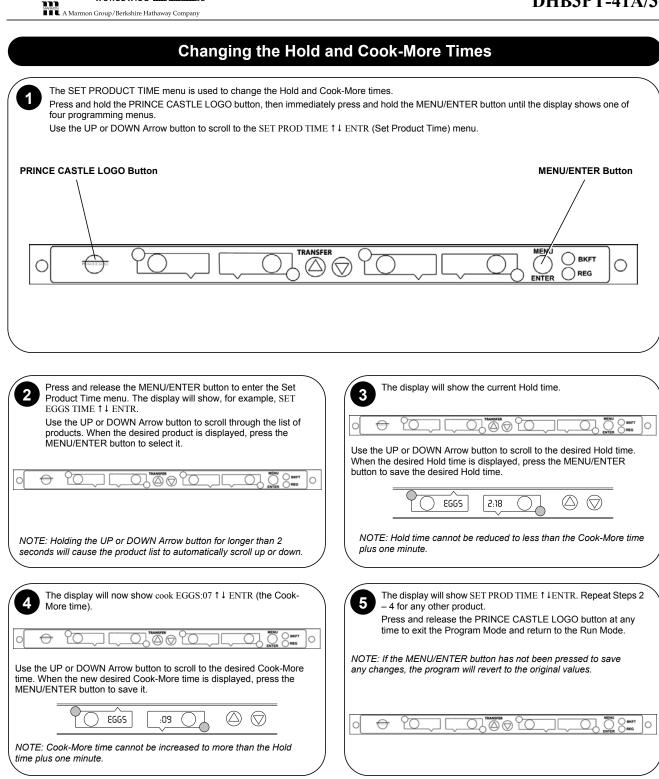
The timer bar address and heater control setting are automatically set when the bar position is selected as follows:

Bar Position	Bar Address	Heater Control
POSA	BAR1	ON
POSB	BAR2	OFF
POSC	BAR3	OFF

The bar address can be changed at power on as on other bars, but loading presets will change the address back to the default as listed above. Changing the bar position will also change the address back to the default as listed above. Loading presets will not change the selected position.

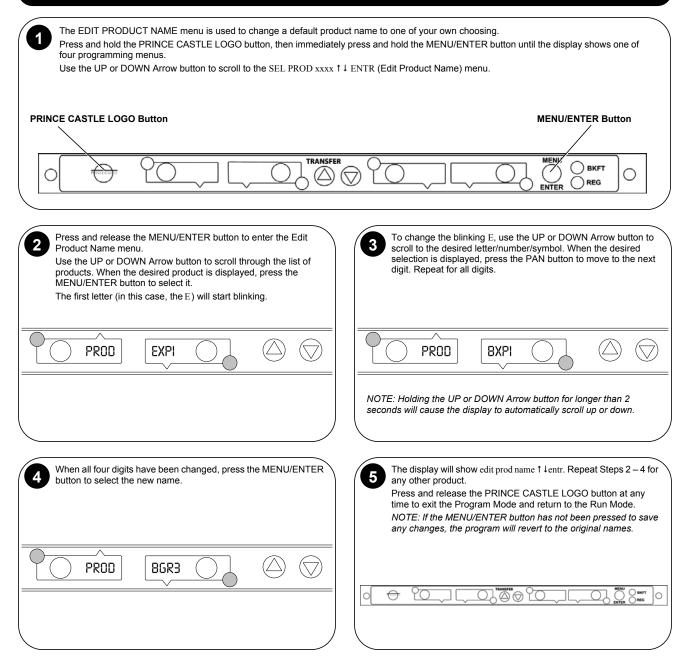






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Changing Product Names





Factory Presets

roduct	Display Name	Hold Minutes ¹	Cook-More Minutes ¹
mited Time Offering	LTO3	30	0
mited Time Offering	LT04	40	0
picy	SPCY	40	0
atfish	CFSH	30	0
opcorn Shrimp	PCRN	30	0
llet	FILL	40	0
ugget	NUGG	40	0
ild	MILD	40	0
nion Ring	ORNG	15	0
utterfly Shrimp	BFLY	30	0
ountry Fried Steak	STAK	40	0
ustom 1	CSM1	30	0
ustom 2	CSM2	30	0
ustom 3	CSM3	30	0
ustom 4	CSM4	30	0
ustom 5	CSM5	30	0
ustom 6	CSM6	30	0
ustom 7	CSM7	30	0
ustom 8	CSM8	30	0
ustom 9	CSM9	30	0
ustom A	CSMA	30	0
ustom B	CSMB	30	0

Factory Presets (continued)

Menus Position A - Upper Timer Bar

	Timer 4	Timer 3	Timer 2	Timer 1	Menu	Indicator
	PCRN	PCRN	MILD	MILD	MNU1	Off
	PCRN	PCRN	MILD	MILD	MNU2	Off
	PCRN	PCRN	MILD	MILD	MNU3	Off
	PCRN	PCRN	MILD	MILD	MNU4	Off
	PCRN	PCRN	MILD	MILD	MNU5	Off
	PCRN	PCRN	MILD	MILD	MNU6	Off
$\langle \rangle$						

Menus Position B - Middle Timer Bar

	Timer 4	Timer 3	Timer 2	Timer 1	Menu	Indicator
	NUGG	NUGG	LTO4	LTO4	MNU1	Off
	NUGG	NUGG	LTO4	LTO4	MNU2	Off
	NUGG	NUGG	LTO4	LTO4	MNU3	Off
	NUGG	NUGG	LTO4	LTO4	MNU4	Off
	NUGG	NUGG	LTO4	LTO4	MNU5	Off
	NUGG	NUGG	LTO4	LTO4	MNU6	Off
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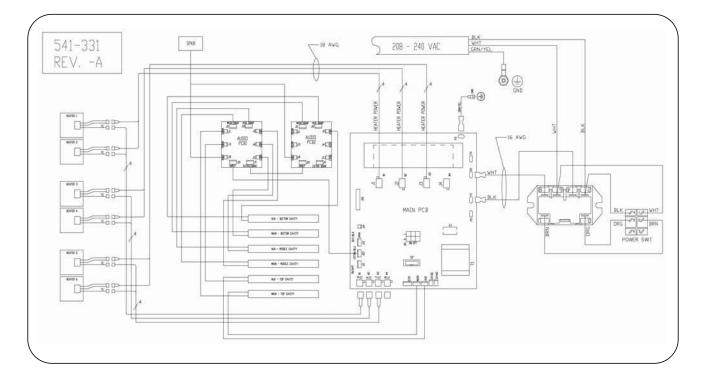
Menus Position B - Middle Timer Bar Timer 4 Timer 3 Timer 2 Timer 1 Indicator Menu LTO3 LTO3 SPCY SPCY MNU1 Off LTO3 LTO3 SPCY SPCY MNU2 Off LTO3 LTO3 SPCY SPCY MNU3 Off LTO3 LTO3 SPCY Off SPCY MNU4 LTO3 LTO3 SPCY SPCY MNU5 Off LTO3 LTO3 SPCY SPCY MNU6 Off



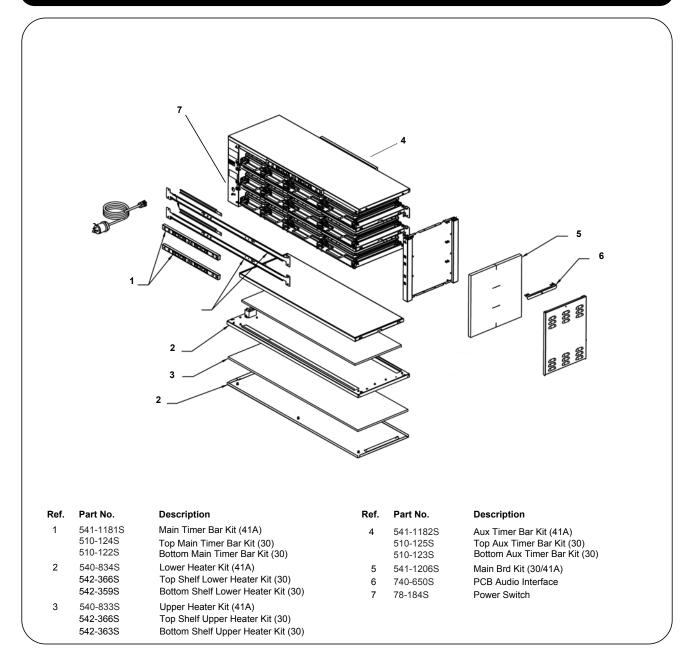
PROBLEM	PROBABLE CAUSE	SOLUTION
Display flashes OpN and REL	Open relay. Circuit inoperable.	Replace main PCB
Display flashes SHR and REL.	Shorted relay. Circuit inoperable. Open heater. Unplugged ribbon cable between power and main circuit boards.	Replace main PCB. Test heater resistance (150.2 Ohms). Replace heater if necessary. Verify ribbon cable connection.
Display flashes OPN and REL.	Temperature is below 75°F (24°C). Heater inoperable. Probe inoperable. Relay inoperable.	Normal display during warmup. Test heater resistance (150.2 Ohms). Check for open thermocouple wires from probe. Replace heater/probe assembly. Replace main PCB.
Display shows HHH for an extended period of time and heater surface temperature is hot.	Temperature is above 300°F (149°C) (abnormal operation).	Diagnostic circuit inoperable. Replace main PCB.
Display shows HHH for an extended period of time and heater surface temperature is cool.	Probe is inoperable.	Check for pinched thermocouple wires from probe. Replace heater/probe assembly.

Troubleshooting

Wiring Diagram



Exploded View and Parts List





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