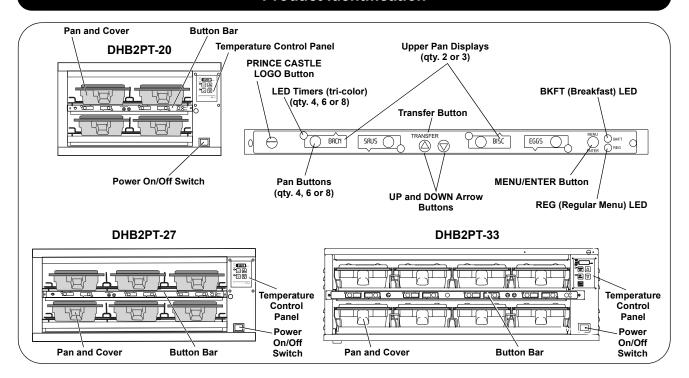
#### **Product Identification**



#### LIMITED WARRANTY

This product is warranted to be free from defects in material and/or workmanship for a period of 1 year from date of original installation, not to exceed 18 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.

   Demonstrated by explanations product and/or physic (o.g.).
- 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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### **Specifications**

							•	\
Model	Volts	Watts	Hertz	Model	Volts	Watts	Hertz	)
DHB2PT-20B	120	1700	60	DHB2PT-20BCE	220 - 240	1500	50	
DHB2PT-27B	120	1650	60	DHB2PT-33BCE	240	2600	50	
DHB2PT-27BCE	230	2500	50	DHB2PT-33BGB	220 - 240	2500	50	
DHB2PT-33B	208 - 240	2500	50/60					/
	DHB2PT-20B DHB2PT-27B DHB2PT-27BCE	DHB2PT-20B       120         DHB2PT-27B       120         DHB2PT-27BCE       230	DHB2PT-20B       120       1700         DHB2PT-27B       120       1650         DHB2PT-27BCE       230       2500	DHB2PT-20B         120         1700         60           DHB2PT-27B         120         1650         60           DHB2PT-27BCE         230         2500         50	DHB2PT-20B         120         1700         60         DHB2PT-20BCE           DHB2PT-27B         120         1650         60         DHB2PT-33BCE           DHB2PT-27BCE         230         2500         50         DHB2PT-33BGB	DHB2PT-20B         120         1700         60         DHB2PT-20BCE         220 – 240           DHB2PT-27B         120         1650         60         DHB2PT-33BCE         240           DHB2PT-27BCE         230         2500         50         DHB2PT-33BGB         220 – 240	DHB2PT-20B         120         1700         60         DHB2PT-20BCE         220 – 240         1500           DHB2PT-27B         120         1650         60         DHB2PT-33BCE         240         2600           DHB2PT-27BCE         230         2500         50         DHB2PT-33BGB         220 – 240         2500	DHB2PT-20B         120         1700         60         DHB2PT-20BCE         220 – 240         1500         50           DHB2PT-27B         120         1650         60         DHB2PT-33BCE         240         2600         50           DHB2PT-27BCE         230         2500         50         DHB2PT-33BGB         220 – 240         2500         50

### **Safety Information**



**CAUTION** Indicates information important to the operation of the unit. Failure to observe may result in damage to the equipment.

Indicates information important to the proper operation of the unit. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

#### Installation

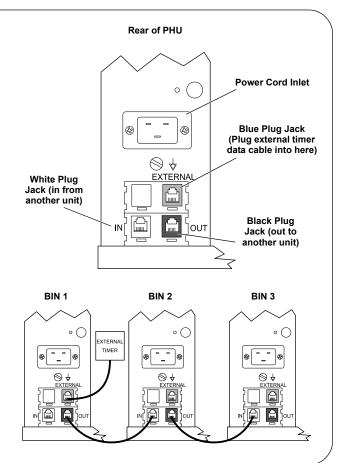
- A. Remove the unit from the carton and inspect for signs of damage. If there is damage to the unit:
- notify the carrier within 24 hours of delivery
- save carton and packaging materials for inspection purposes
- contact your local dealer, or if purchased directly, the Prince Castle Sales Department at 800-722-7853 or 1-630-462-8800 to arrange for a

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

- B. Place the bin on a counter and seal the base to the counter with foodapproved sealant.
- C. Plug the power cord into the bin and connect the plug into the proper electrical outlet. All connections must be in accordance with local electrical codes and any other applicable codes.

NOTE: The electrical receptacle should be a dedicated outlet. No other equipment should be operating on the line (refrigerators, fryers, etc.).

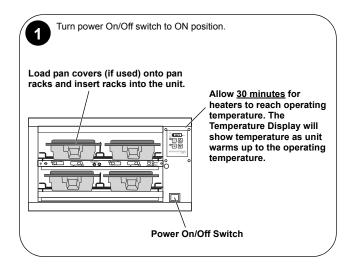
- D. If used, plug a Prince Castle external timer bar (consult factory for model) data cable into the blue plug jack (external) located on the rear of the Prince Castle holding bin. If cable from timer is too short, use Prince Castle Extender Cable Kit, P/N PC-COMEXT.
- E. Install the racks, pans and pan covers into the cavities.
- F. Turn the power switch to ON. Allow 30 minutes for warm-up. NOTE: If the unit is to be networked with other Prince Castle units, an external timer may be connected to any one bin in the chain. Refer to CASTLENET COMMUNICATIONS NETWORK in this manual.

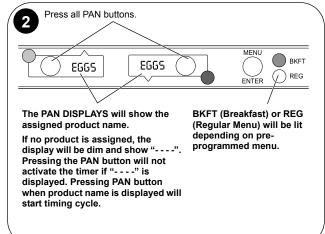


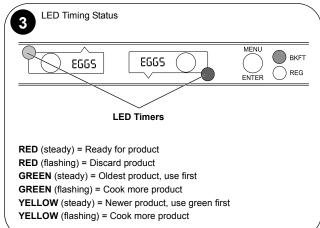
Prince Castle reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.

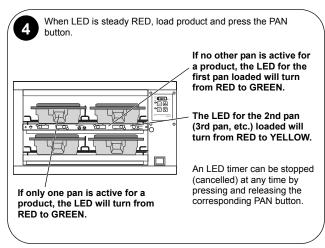


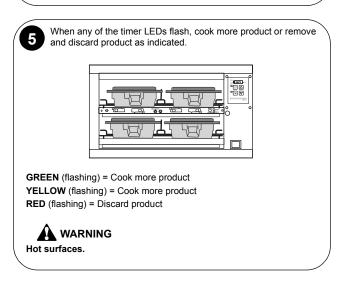
### **Operation**

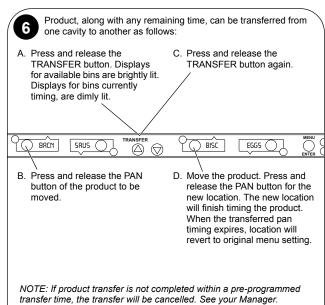






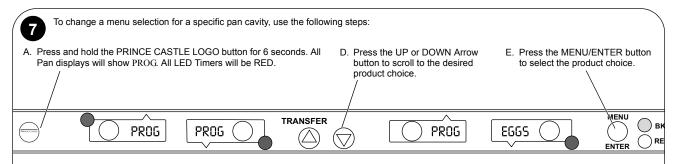






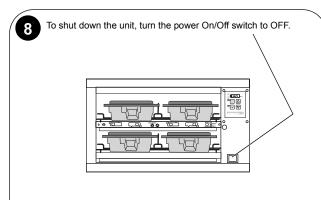


### **Operation (continued)**



- B. Press and hold the MENU/ENTER button. The display next to the MENU/ENTER button will display the product choices. While holding the MENU/ENTER button, press the UP or DOWN Arrow button to scroll through the product choices. While scrolling, the BKFT LED will be lit for the breakfast menus and the REG LED will be lit for the
- C. Press a PAN button to change the product. the LED timer will change  $\,$ to yellow and the display will change from PROG to the assigned product choice and two other displays will change to up and down arrows and ENTR.
- Repeat Steps A E as required for other Pan displays. Press the PRINCE CASTLE LOGO button to exit the Program Mode.

NOTE: Up to six products may be programmed for each Pan button (1 for each menu). In addition, a pan may be set as "not used" by assigning "----" as its product.



### Cleaning



### **WARNING**

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

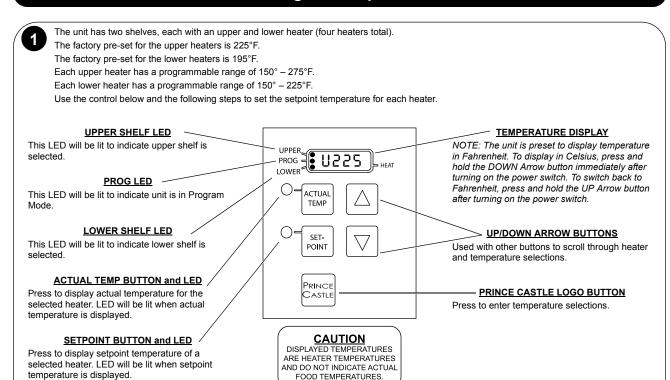
#### **CAUTION**

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

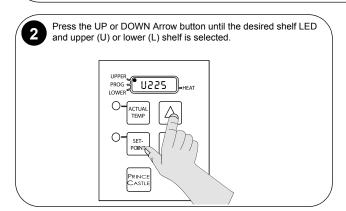
- 1. Turn the unit off and unplug the power cord from the electrical receptacle.
- 2. Remove the pan covers and pan racks. Wipe all parts and unit with a damp cloth. DO NOT use a green Scotch Bright pad cleaner, ice or water

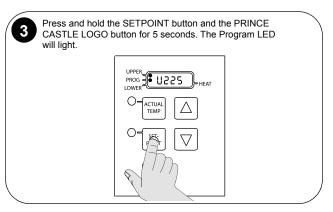


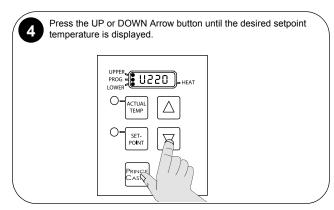
#### **Setting the Temperature**

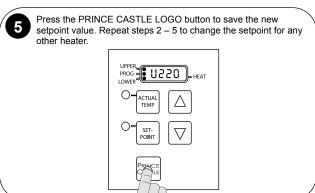


NOTE: To reset all times and temperatures to the factory settings, turn the unit off, then press and hold the UP and DOWN Arrow buttons simultaneously while turning the unit back on. A "P" will appear in the display and all times and temperatures will be reset to original factory settings.



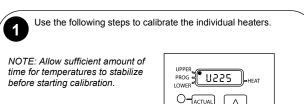




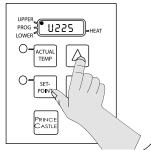


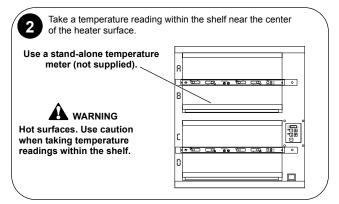


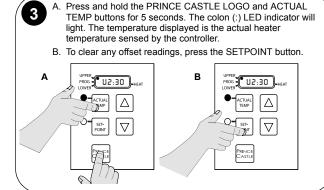
### **Calibrating Heaters**

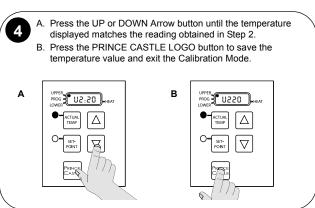


Press the UP or DOWN Arrow button until the desired shelf LED and upper (U) or lower (L) heater is selected.

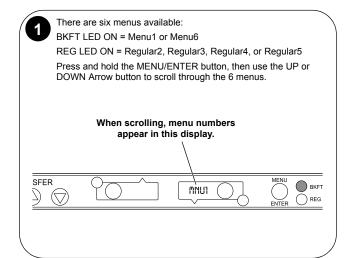


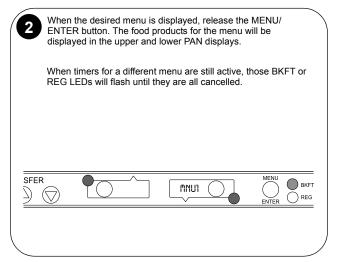






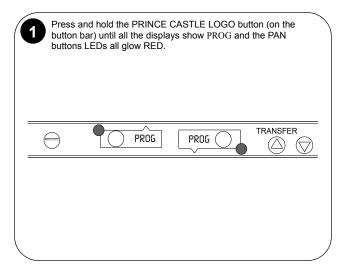
### **Selecting Breakfast and Regular Menus**

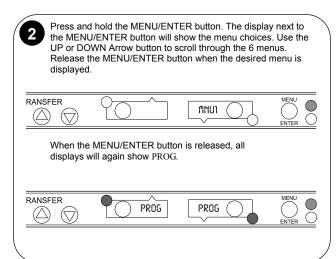


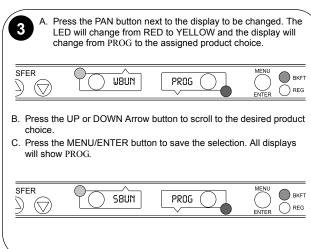


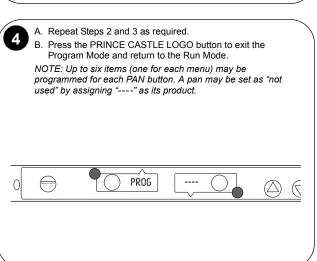


### **Programming the Menus**

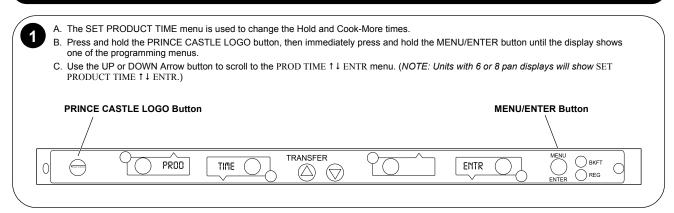








### **Changing the Hold and Cook-More Times**



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### **Changing the Hold and Cook-More Times (continued)**



- A. Press and release the MENU/ENTER button to enter the Set Product Time menu. The display will show, for example, EGGS TIME ↑ ↓ ENTR.
- B. Use the UP or DOWN Arrow button to scroll through the list of products. When the desired product is displayed, press the MENU/ENTER button to select it.

Refer to the Product Menu Details on page 12 for a list of products and their corresponding display names.



NOTE: Holding the UP or DOWN Arrow button for longer than 2 seconds will cause the product list to automatically scroll up or down.

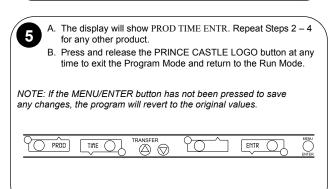
A. The display now :	shows the o	current Hold tir	ne.	
EGGS 2:00	TRANSFER	20^	ENTR O	MENU ENTER
B. Use the UP or DOWN Ar When the desired Hold ti button to save the desire	me is displa	ayed, press the		
EGG5 2:10	TRANSFER 🔘	20^		MENU ENTER
NOTE: Hold time cannot by plus one minute.	e reduced	to less than th	e Cook-More t	ime

A. The display will now show current Cook-More time. Use the UP or DOWN Arrow button to scroll to the desired Cook-More time.

| A. The display will now show current Cook-More time. Use the UP or DOWN Arrow button to scroll to the desired Cook-More time.

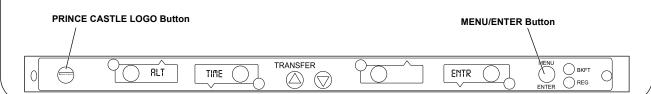
| B. When the desired Cook-More time is displayed, press the MENU/ENTER button to save it.

NOTE: Cook-More time cannot be increased to more than the Hold time minus one minute.



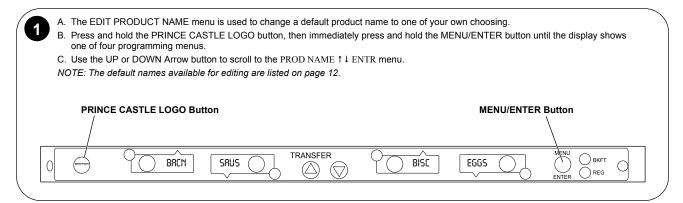
### **Setting the Alternating Display Interval**

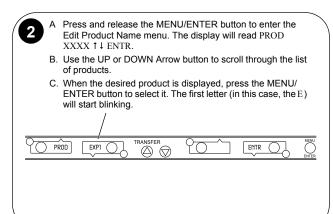
- A. The Alternating Display Interval allows the timer bar displays to alternate between the product name and remaining Hold time. The default setting is 5 seconds.
- B. Press and hold the PRINCE CASTLE LOGO button, then immediately press and hold the MENU/ENTER button until the display shows one of the programming menus.
- C. Use the UP or DOWN Arrow button to scroll to the DISP ALT TIME menu. Press MENU/ENTER button.
- D. Use the UP and DOWN Arrow buttons to adjust the interval setting from 0 to 15 seconds. Press MENU/ENTER to save the change.
- E. Press and hold the PRINCE CASTLE LOGO button at any time to exit the Program Mode.

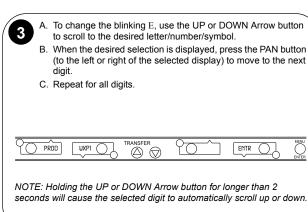


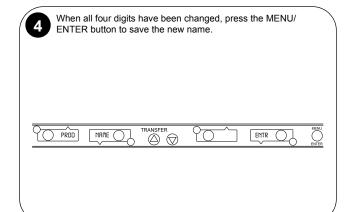


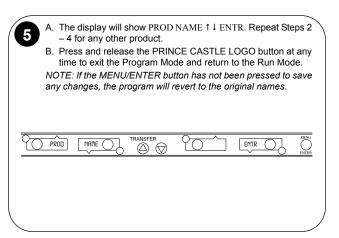
### **Changing Product Names**







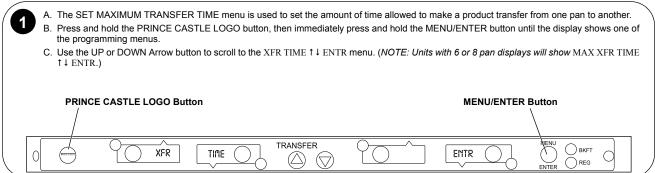


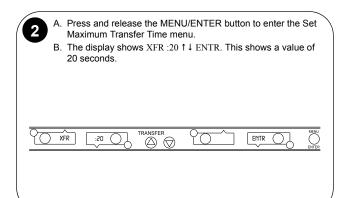


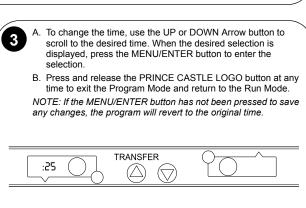
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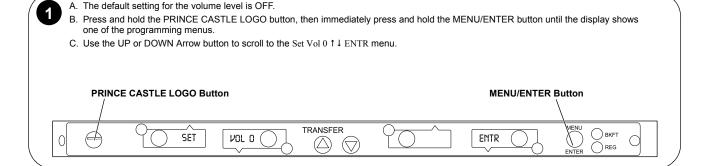
#### **Set Maximum Transfer Time**







### **Set Volume Level**



- A. Press and release the MENU/ENTER button to enter the Set Volume menu.
   B. The display shows SET VOL 0 ↑ ↓ ENTR. This shows that the
  - B. The display shows SET VOL 0 T TENTR. This shows that the volume is currently turned off.

The volume may be set for Vol 0 (off) or for volume levels Vol 1 through Vol 3.



- A. To change the volume level, use the UP or DOWN Arrow button to scroll to the desired level. When the desired selection is displayed, press the MENU/ENTER button.
- B. Press and release the PRINCE CASTLE LOGO button at any time to exit the Program Mode and return to the Run Mode.

NOTE: If the MENU/ENTER button has not been pressed to save any changes, the program will revert to the original volume level.

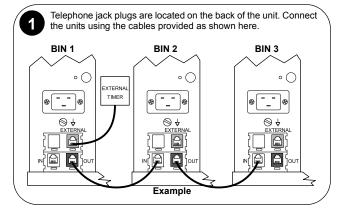


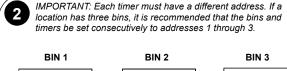
#### CastleNet® Communications Network

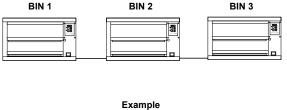
The Prince Castle DHB Bins, external timers, and New Bun Cabinet Timers can be inter-connected to form the CastleNet® Communication Network. The network can be used for data transfer between bins and timers for menu updates or to transfer product hold time from bin-to-bin. A PDA (or similar device) or a notebook with Prince Castle MenuView® software is used to connect to the network and enter the desired changes.

Each bin is supplied with a standard 25' cable and allows units to be "daisy-chained" together to form the network. If cable is too short, use Prince Castle Extender Cable Kit, P/N PC-COMEXT.

The factory default address for Main bins and timers is address 1. The factory default address for Specialty bins and timers is address 2. If a third bin is used, the address must be set at 3.



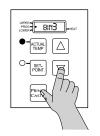




4 Use the UP or DOWN Arrow button to scroll to the desired address. Press the PRINCE CASTLE LOGO button to store the paw address.

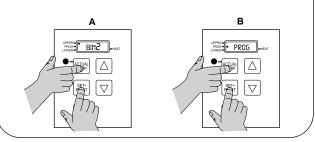
Available addresses are: BIN1 thru BIN9, BINA, BINB, BINC, BIND, BINE and BINF.

IMPORTANT: Continue to Step 5 to check the timer address. <u>No two timers can have the same address.</u>



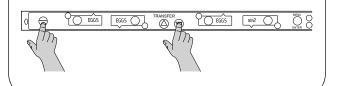
A Turn the power switch off, wait 15 seconds. Turn the switch to ON while pressing and holding the ACTUAL TEMP and SET-POINT buttons. The display will show the current bin address.

B. Continue to hold the buttons until PROG LED turns on.



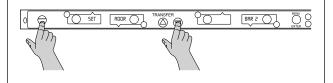
To check the timer address, press and hold the PRINCE CASTLE LOGO button and the DOWN Arrow button. The current timer address will be displayed in the far right timer display.

To change the timer address, proceed to Step 6.



To change the timer address, turn the unit power switch off and wait 15 seconds. Turn the power switch back on and immediately press and hold the PRINCE CASTLE LOGO button and the DOWN Arrow button for approximately 6 seconds or until the display shows ADDR 1 the entremark entremark.

The address number will blink on/off.



Use the UP or DOWN Arrow button to scroll to the desired address. Press the MENU/ENTER button to store the new address and return to normal Operating Mode.

Available addresses are:

BAR 1 thru BAR 9, BAR A, BAR B, BAR C, BAR D, BAR E and BAR F.



### **Factory Presets**

Product	Display Name	Hold Minutes <sup>1</sup>	Cook-More Minutes <sup>1</sup>
Burger	BUR1	30	3
Burger	BUR2	30	3
Chicken Patty	CHX1	30	3
Chicken Patty	CHX2	30	3
Chicken Patty	CHX3	30	3
Chicken Wing	WING	30	3
Fish	FISH	30	3
Eggs	EGGS	30	3
Sausage	SAUS	30	3
Bacon	BACN	30	3
Ham	HAM	30	3
Popper	POP	30	3
Mozzarella Stick	MOZ	30	3
Onion	ONIN	30	3
Mushroom	MUSH	30	3
Chicken Nuggets	NUGG	30	3
Spicy Chicken	SPCY	30	26
French Toast	TOST	10	8
Chicken Stars	STAR	30	27
Large	LRG	20	17
\$6 Burger	SIX	20	17
BBQ Chicken	BBQ	20	17
Crispy Chicken	CRSP	30	26
Special #1	SPC1	30	3
Special #2	SPC2	30	3

Menu	Bkft	Down	Up	Down	Up	Down	Up	Down	Menu	LED
	CRSP	ONIN	BBQ	SPCY	SIX	SIX	LRG	LRG	MNU1	Bkft
	BUR1	BUR1	BUR1	BUR1	BUR2	BUR2	BUR2	BUR2	MNU2	REG
	CHX1	CHX1	CHX2	CHX2	CHX3	CHX3	WING	FISH	MNU3	REG
	CHX1	CHX2	WING	WING	MOZ	MOZ	POP	POP	MNU4	REG
	CHX1	CHX2	CHX3	WING	WING	POP	ONIN	MUSH	MNU5	REG
	EGGS	EGGS	EGGS	EGGS	HAM	BACN	SAUS	SAUS	MNU6	Bkft

6 Channel Menus									
Timer	6	5	4	3	2	1			
	STAR	FISH	TOST	ONIN	CRSP	SPCY	MNU1	Bkft	
	BUR1	BUR1	BUR1	BUR2	BUR2	BUR2	MNU2	Reg	
	CHX1	MUSH	MOZ	POP	WING	WING	MNU3	Reg	
	CHX1	CHX2	WING	MOZ	POP	POP	MNU4	Reg	
	CHX1	CHX2	CHX3	POP	ONIN	MUSH	MNU5	Reg	
	EGGS	EGGS	EGGS	HAM	BACN	SAUS	MNU6	Bkft	



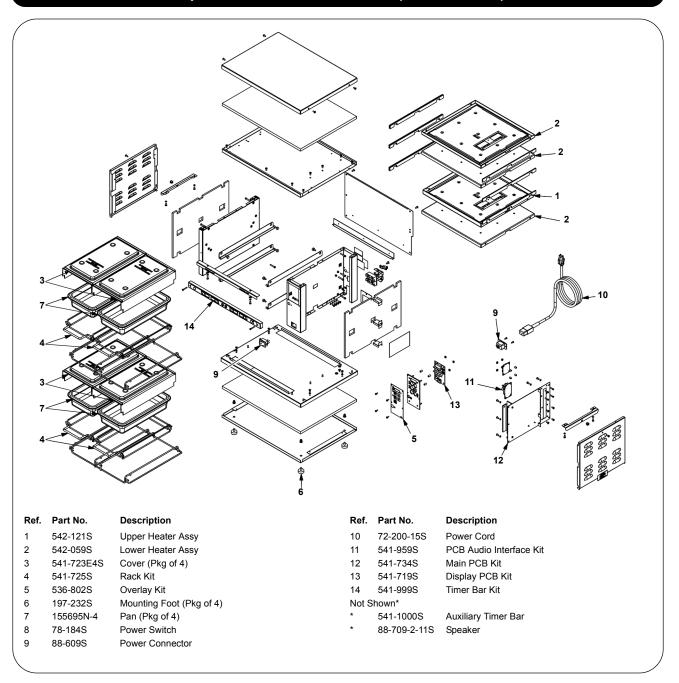
## Troubleshooting

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

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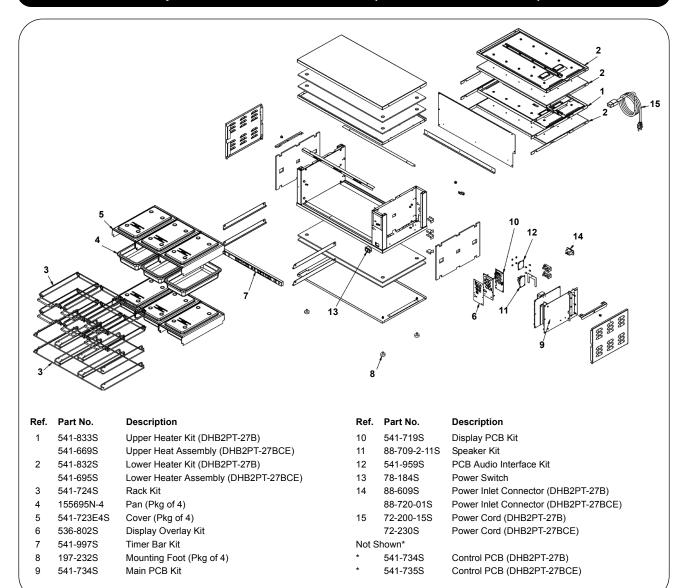


### **Exploded View and Parts List (DHB2PT-20B)**





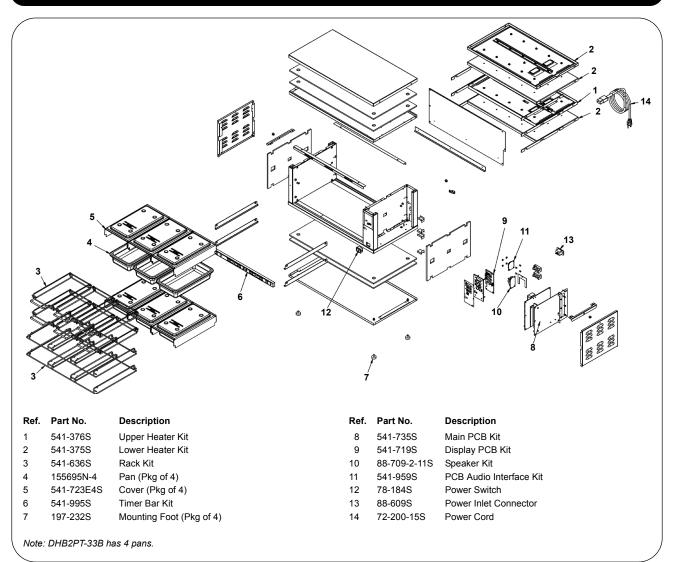
### Exploded View and Parts List (DHB2PT-27B/-27BCE)



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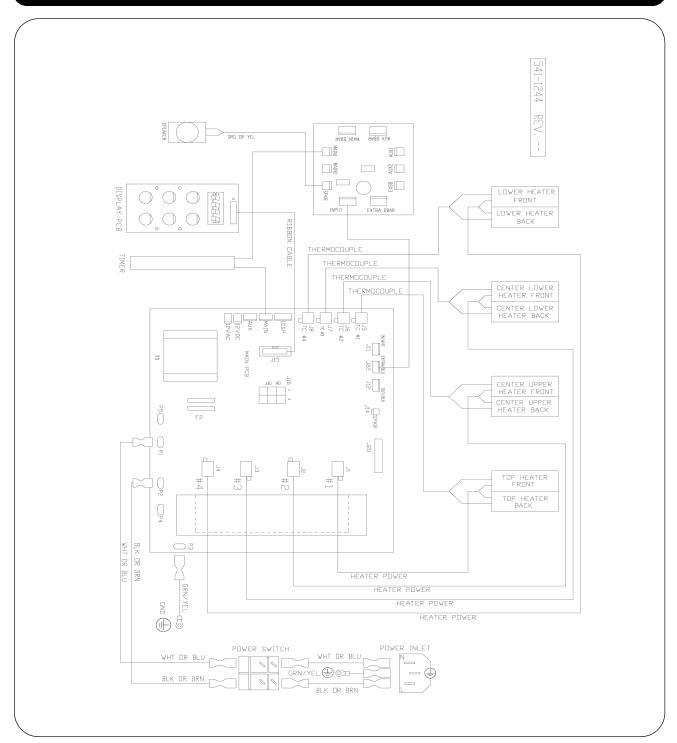


### **Exploded View and Parts List (DHB2PT-33B)**





### **Wiring Diagram**



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