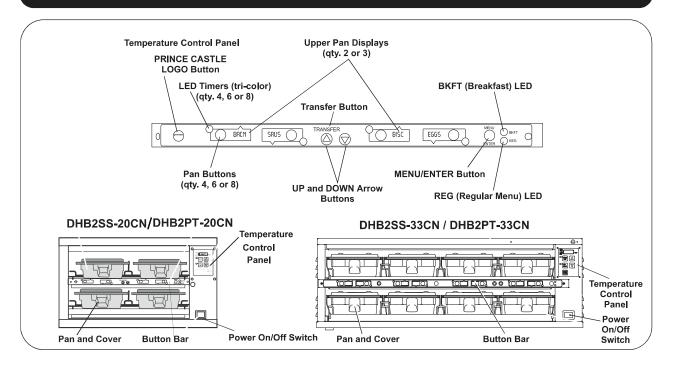
Product Identification



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.
- 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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MARMON FOODSERVICE TECHNOLOGIES

A BERKSHIRE HATHAWAY COMPANY

Specifications

Model	Volts	Watts	Hertz	
DHB2SS-20CN / DHB2P-20CN	208 – 240	720-960	50/60	
DHB2SS-33CN / DHB2PT-33CN	208 – 240	1780-2450	50/60	

Safety Information



A CAUTION

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.

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

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 replacement unit.

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.

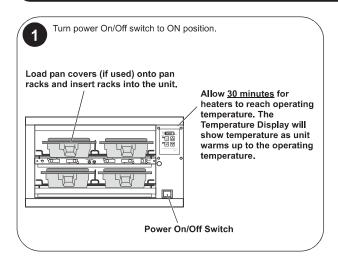
NOTE: The electrical receptacle should be a dedicated outlet. No other equipment should be operating on the line (refrigerators, fryers, etc.).

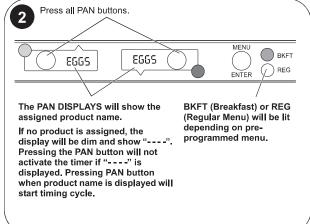
- D. If used, plug a Prince Castle external timer bar (consult factory for model) data cable into the blue plug jack (external) located on the rear of the Prince Castle holding bin. If cable from timer is too short, use Prince Castle Extender Cable Kit, P/N PC-COMEXT.
- E. Install the racks, pans and pan covers into the cavities.
- F. Turn the power switch to ON. Allow 30 minutes for warm-up.

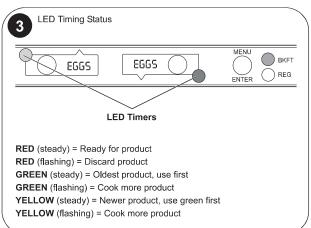
Prince Castle reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.

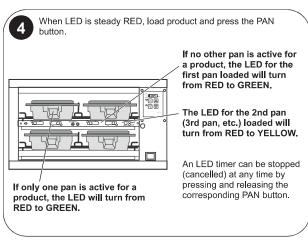


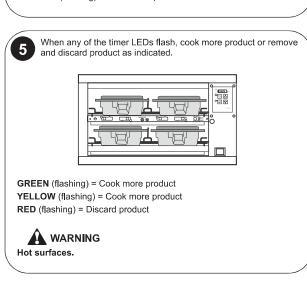
Operation

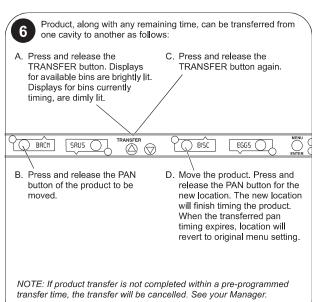






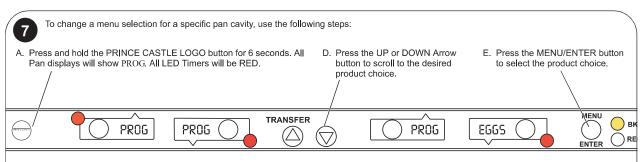






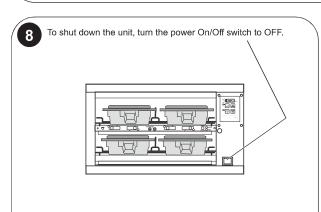


Operation (continued)



- 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 regular menus.
- 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.
- F. 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



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 and unplug the power cord from the electrical receptacle.
- 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



The unit has two shelves, each with an upper and lower heater (four heaters total).

The factory pre-set for the upper heaters is 225°F.

The factory pre-set for the lower heaters is 195°F.

Each upper heater has a programmable range of 150° - 275°F.

Each lower heater has a programmable range of 150° - 225°F.

Use the control below and the following steps to set the setpoint temperature for each heater.

UPPER SHELF LED

This LED will be lit to indicate upper shelf is selected.

PROG LED

This LED will be lit to indicate unit is in Program Mode

LOWER SHELF LED

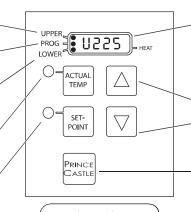
This LED will be lit to indicate lower shelf is selected.

ACTUAL TEMP BUTTON and LED

Press to display actual temperature for the selected heater. LED will be lit when actual temperature is displayed.

SETPOINT BUTTON and LED

Press to display setpoint temperature of a selected heater. LED will be lit when setpoint temperature is displayed.



TEMPERATURE DISPLAY

NOTE: The unit is preset to display temperature in Fahrenheit. To display in Celsius, press and hold the DOWN Arrow button immediately after turning on the power switch. To switch back to Fahrenheit, press and hold the UP Arrow button after turning on the power switch.

> UP/DOWN ARROW BUTTONS

Used with other buttons to scroll through heater and temperature selections.

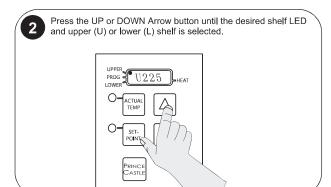
PRINCE CASTLE LOGO BUTTON

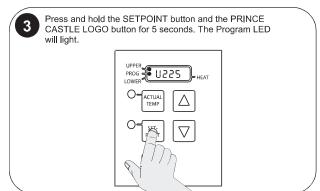
Press to enter temperature selections.

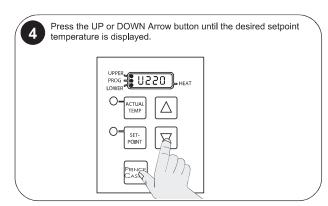
CAUTION DISPLAYED TEMPERATURES ARE HEATER TEMPERATURES AND DO NOT INDICATE ACTUAL

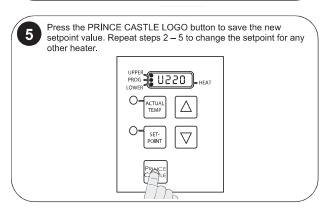
NOTE: To reset all times and temperatures to the factory settings, turn the unit off, then press and hold the UP and DOWN Arrow buttons simultaneously while turning the unit back on. A "P" will appear in the display and all times and temperatures will be reset to original factory settings.

FOOD TEMPERATURES











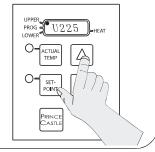
Calibrating Heaters

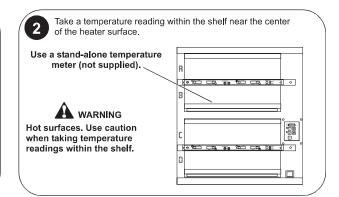


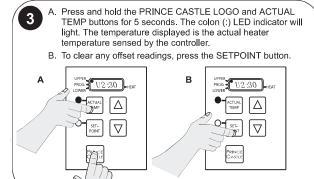
Use the following steps to calibrate the individual heaters.

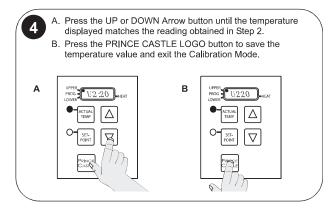
NOTE: Allow sufficient amount of time for temperatures to stabilize before starting calibration.

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

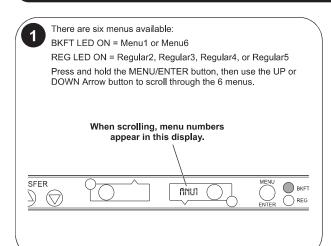


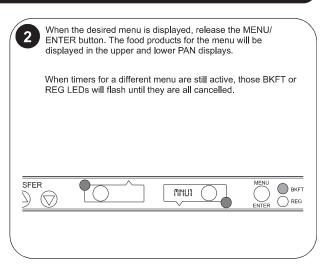






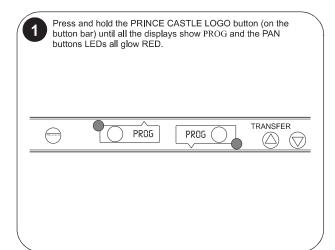
Selecting Breakfast and Regular Menus

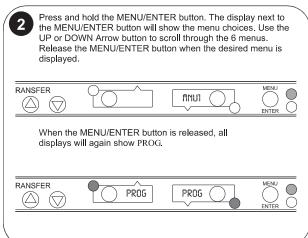


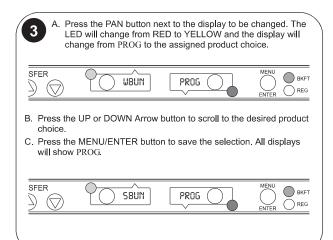


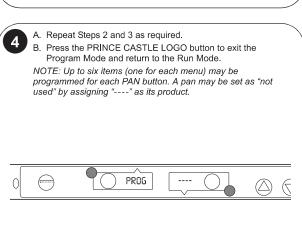


Programming the Menus

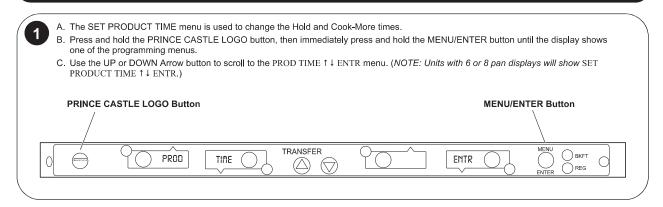








Changing the Hold and Cook-More Times





Changing the Hold and Cook-More Times (continued)

plus one minute.

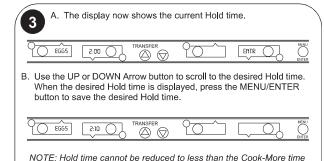


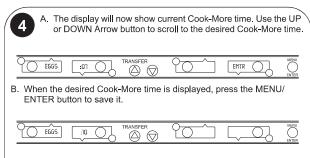
- A. Press and release the MENU/ENTER button to enter the Set Product Time menu. The display will show, for example, EGGS TIME ↑↓ ENTR.
- B. Use the UP or DOWN Arrow button to scroll through the list of products. When the desired product is displayed, press the MENU/ENTER button to select it.

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

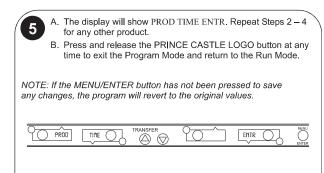


NOTE: Holding the UP or DOWN Arrow button for longer than 2 seconds will cause the product list to automatically scroll up or down.



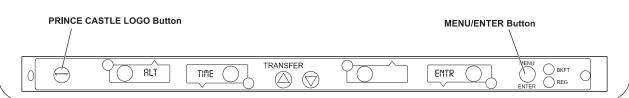


NOTE: Cook-More time cannot be increased to more than the Hold time minus one minute.



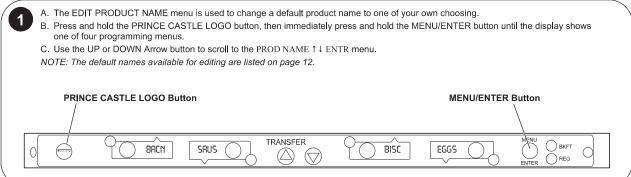
Setting the Alternating Display Interval

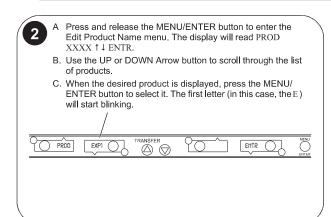
- A. The Alternating Display Interval allows the timer bar displays to alternate between the product name and remaining Hold time. The default setting is 5 seconds.
- B. Press and hold the PRINCE CASTLE LOGO button, then immediately press and hold the MENU/ENTER button until the display shows one of 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.

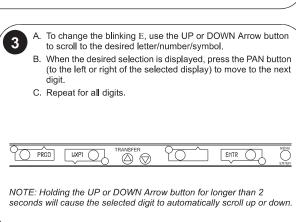


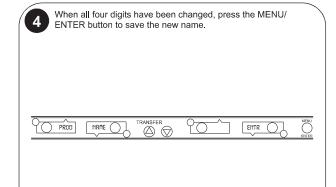


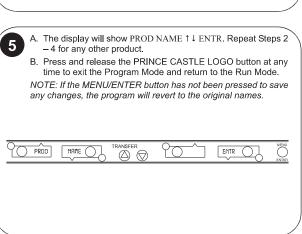
Changing Product Names









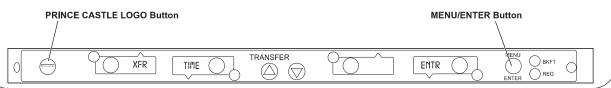


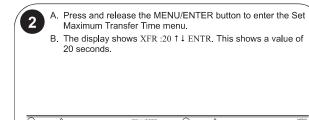


Set Maximum Transfer Time

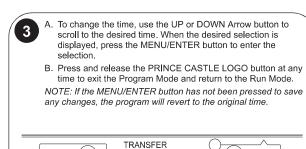


- A. The SET MAXIMUM TRANSFER TIME menu is used to set the amount of time allowed to make a product transfer from one pan to another.
- B. Press and hold the PRINCE CASTLE LOGO button, then immediately press and hold the MENU/ENTER button until the display shows one of the programming menus.
- C. Use the UP or DOWN Arrow button to scroll to the XFR TIME † \(\psi \) ENTR menu. (NOTE: Units with 6 or 8 pan displays will show MAX XFR TIME † \(\psi \) ENTR.)





 \triangle





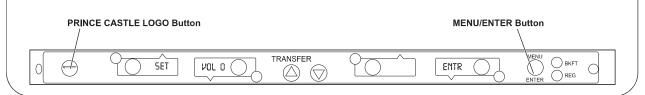
Set Volume Level



XFR

- A. The default setting for the volume level is OFF.
- 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 Set Vol 0 ↑↓ ENTR menu.

ENTR





- A. Press and release the MENU/ENTER button to enter the Set Volume menu.
- B. The display shows SET VOL 0 ↑ \downarrow ENTR. 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.



Factory Presets

Product	Display Name	Hold Minutes ¹	Cook-More Minutes ¹
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

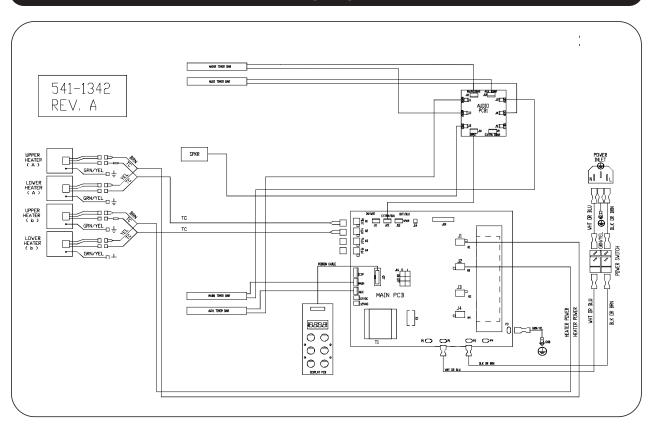
Menu	Bkft	Down	Up	Down	Up	Down	Up	Down	Menu	LED
	CRSP	ONIN	BBQ	SPCY	SIX	SIX	LRG	LRG	MNU1	Bkft
	BUR1	BUR1	BUR1	BUR1	BUR2	BUR2	BUR2	BUR2	MNU2	REG
	CHX1	CHX1	CHX2	CHX2	CHX3	CHX3	WING	FISH	MNU3	REG
	CHX1	CHX2	WING	WING	MOZ	MOZ	POP	POP	MNU4	REG
	CHX1	CHX2	CHX3	WING	WING	POP	ONIN	MUSH	MNU5	REG
	EGGS	EGGS	EGGS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

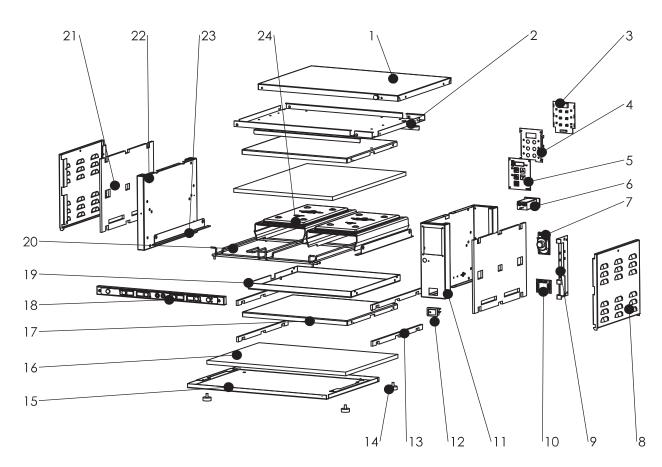
PROBLEM	PROBABLE CAUSE	SOLUTION
Display flashes OpN and REL.	Open relay. Circuit inoperable.	Replace power circuit board.
Display flashes SHR and REL.	Shorted relay. Circuit inoperable. Open heater. Unplugged ribbon cable between power and main circuit boards.	Replace power circuit board. Test heater resistance (150.2 Ohms). Replace heater if necessary. Verify ribbon cable connection.
Display flashes OPN and REL.	Temperature is below 75°F. 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 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.

Wiring Diagram





EXPLOEDED VIEW AND PARTS LIST FOR DHB2SS-20CN

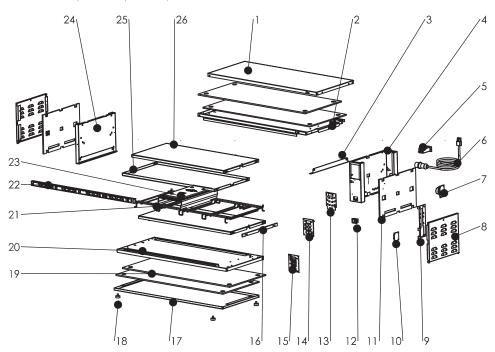


S/N	P/N	Description	Quantity
1	528-751	COVER,TOP 20"	1
2	541-691	HEADER 20"	1
3	541-1027	DISPLAY PCB	1
4	542-226	DISPLAY PCB BACKER	1
5	536-802	OVERLAY,DISPLAY PCB	1
6	88-720-01	FILTER,FRI 16A	1
7	88-709	SPEAKER	1
8	542-216	COVER,SIDE	2
9	541-959	MAIN PCB BRKT	1
10	740-650	AUDIO PCB	1
11	540-668	UPRIGHT,RH	1
12	78-233	POWER SWITCH	1

S/N	P/N	Description	Quantity
13	529-101	GASKET ,HEATER	6
14	197-232	FOOT ,MOUNTING	4
15	541-688	PANEL ,BOTTOM COVER 20"	1
16	528-062	INSULAITON,TOP&BOTTOM	4
17	542-411	HTR PANEL,LWR ROPE 20"	3
18	510-209	ASSY,4 CH TMR BAR PCB	1
19	542-421	HTR PANEL,UPP ROPE 20"	1
20	541-725	WIRE RACK	2
21	541-317	INSULAITON ,SIDE	2
22	542-174	UPRIGHT,LEFT	1
23	542-244	BRKT,SHELF PASS THRU	4
24	541-723E	BLACK COVER	4



EXPLODED VIEW AND PARTS LIST FOR DHB2SS-33CN / DHB2PT-33CN



NOTES: MODEL FOR DHB2PT-33CN TIMER BAR PN IS 510-200/-510-201

S/N	P/N	Description	Quantity
1	540-683	COVER,TOP 33"	1
2	540-684	HEADER 33"	1
3	542-244	BRKT,SHELF PASS THRU	4
4	540-668	UPRIGHT,RH	1
5	88-720-01	FILTER,FRI 16A	1
6	PM-123	POWERCORD,	1
7	88-709	SPEAKER	1
8	542-216	COVER,SIDE	2
9	541-959	MAIN PCB BRKT	1
10	740-650	AUDIO PCB	1
11	541-317	INSULAITON ,SIDE	2
12	78-233	POWER SWITCH	1
13	541-1027	DISPLAY PCB	1

S/N	P/N	Description	Quantity
14	542-226	DISPLAY PCB BACKER	1
15	536-802	OVERLAY,DISPLAY PCB	1
16	529-101	GASKET ,HEATER	6
17	541-322	PANEL ,BOTTOM COVER 33"	1
18	197-232	FOOT ,MOUNTING	4
19	541-369	INSULAITON,TOP&BOTTOM	4
20	541-607	PANEL, BASE 33"	1
21	541-636	RACK, GUIDE W/HANDLE 2 WIDE	2
22	510-148	ASSY,8 CH TMR BAR PCB	1
23	541-723E	BLACK COVER	8
24	542-174	UPRIGHT,LEFT	1
25	542-431	HTR PANEL,LWR ROPE 33"	3
26	542-436	HTR PANEL,UPP ROPE 33"	1