Operation Manual

Multi-display 8-Channel Timer
755-HM8

Product Identification

The Prince Castle Multi-display 8-Channel Timer offers total control over the food preparation process. Both auditory and visual signals are used to alert busy staff people when specific processes are complete. Multiple-channel timers make multi-tasking easy and foolproof, a cost-effective way to minimize food spoilage!

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 equipment is portable; charges for on-location service (e.g., trip charges, mileage) are not included in the provisions of this warranty.

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.

LIMITED WARRANTY (cont.)

The power cord on this product is rated for a maximum surface temperature of 194ºF (90ºC). If the cord comes into contact with the fryer or rethermalizer or any other heated surface, it may be damaged and/or cause damage to the product and/or injury to the user. The power cord may also be damaged if placed directly in the path of the high temperature exhaust emitting from the flue of the fryer or rethermalizer. Damage resulting from any such misuse may result in a voided Warranty at the sole discretion of the manufacturer.

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UL LISTED 924A.   UL LISTED EPH

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Safety Information

⚠ **WARNING: 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.**

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

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.

Installation

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

* **Notify the freight carrier (e.g., UPS) 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 1-800-722-7853 or 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 (37.8°C).

⚠ **CAUTION**

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

Plug the unit into an applicable electrical receptacle.

Operation

1

Each of the 8 channels of the 755-HM8 timer operates in an identical manner.

Press a channel button to activate a timing cycle (a short beep sounds).

☞ To cancel any operation in progress, press the related channel button three times in quick succession.

The timer counts down from the programmed time value of the first duty function. Every three to five seconds during the countdown the display briefly shows the name of the current duty function and then returns to the remaining time value. When the time value reaches 0:00, an alarm sounds (if enabled) and the display alternates between the name of the just completed function and 0:00. The alarm can be set to function in one of several possible manners for each enabled duty function (see section on alarm programming). Each duty function is also equipped with an alert function. When the programmed alert time is reached during the countdown (see section on Alert Programming), an alarm sounds for approximately five seconds and the associated LED flashes.

2

☞ Each channel has a multi-colored LED indicator that shows the status of the current duty function. The indicator has three colors: green, yellow, and red. The indicator is green during the first 70% of the countdown for the current duty function. It changes to yellow during the next 20% of the countdown. It is red during the last 10% of the countdown and begins to flash when the countdown is completed.

Press the button of the channel with the flashing red indicator to cancel that channel's alarm (may be programmed to automatically cancel alarm). If another duty function is enabled (maximum of six) and the alarm mode is set to continue (see section on alarm programming) the timer automatically begins to count down the time value of this new duty function as soon as the previous duty function is completed. This happens in the background even while the alarm from the previous duty cycle is still activated. Only when the alarm is cancelled is the time value for the new duty function displayed. As the countdown continues, every three to five seconds the display briefly shows the name of the current duty function and then returns to the remaining time value.

3

This sequence is repeated for each enabled duty function (maximum of six) of this channel. If a duty function's time value is set to 0:00 (see section on programming) this function and all subsequent functions for this channel are disabled and not part of the channel's timing sequence.

☞ NEVER use any instrument or object to activate the channel buttons. Press the buttons with your finger ONLY. Such misuse may damage the unit, voiding the Warranty.

FOR EXAMPLE: When the button for Ch. 1 is pressed, the timer begins counting down from 42 secs. and the word "FRY" is displayed every 3-5 seconds. When the 42-sec. fry time has completed, an alarm sounds. Pressing button #1 for turns off the alarm and automatically starts the next cycle: a 30-sec. cycle with the word "DR_N" displayed every 3-5 secs. At the end of the 30-sec. Drain cycle, the alarm sounds again. Pressing button #1 will turn off the alarm and automatically start the last cycle in the program: a 15:00 min. cycle with "HOLD" displayed every 3-5 secs. At the end of the Hold cycle, a final alarm will sound. Pressing button #1 will turn off the alarm and the timer will return to the ready position, with "- - - -" displayed.

Printed in USA 3/06 © 2006   **Channel Defaults**   755-502revA

8-Channel Timer Operation & Pre-Programmed Settings

Ch. 1		
Function	**Name**	**Time**
1	Fry	:42
2	Dr_n	:30
3	Hold	15:00

Ch. 2		
Function	**Name**	**Time**
1	Fry	:42
2	Dr_n	:30
3	Hold	15:00

Ch. 3		
Function	**Name**	**Time**
1	Fry	5:45
2	Dr_n	0:30
3	Cool	10:00

Ch. 4		
Function	**Name**	**Time**
1	Fry	5:45
2	Dr_n	0:30
3	Cool	10:00

Ch. 5		
Function	**Name**	**Time**
1	Fry	2:45
2	Dr_n	:30
—	—	—

Ch. 6		
Function	**Name**	**Time**
1	Fry	0:25
2	FL_T	0:05
3	Dr_n	1:00

Ch. 7		
Function	**Name**	**Time**
1	Fry	0:25
2	Dr_n	0:50
—	—	—

Ch. 8		
Function	**Name**	**Time**
1	Fry	0:30
2	Dr_n	0:10
—	—	—

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Programming

1 To program the timer system, all eight timing channels must be idle with the displays showing "- - - -". Press and hold the PRINCE CASTLE logo button for 6-8 secs. to enter the programming mode. The displays all change from "- - - -" to "PRGM". You are now ready to individually program each of the eight channels.

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PRGM	PRGM	PRGM	PRGM
PRGM	PRGM	PRGM	PRGM
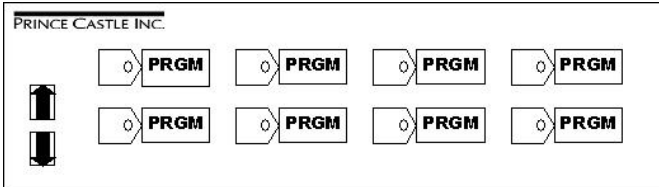
2 Briefly press the button for the timer channel to be programmed. The LED indicator for the selected channel turns red and a beep sounds. The display for only the selected channel shows "DTY1" indicating that the first duty function can be programmed. The LED indicators next to each of the programmable features for this duty function turn yellow.

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DTY1			
NAME	TIME	ALRM	ALRT
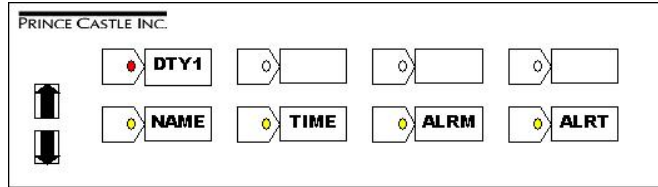
3 Use the UP ARROW or DOWN ARROW buttons to scroll through to the desired duty function for this channel. Holding down either the UP ARROW or DOWN ARROW buttons automatically scrolls through the possible selections.

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DTY1
DTY2
DTY3
DTY4
DTY5
DTY6

DTY1		
NAME	ALRM	ALRT
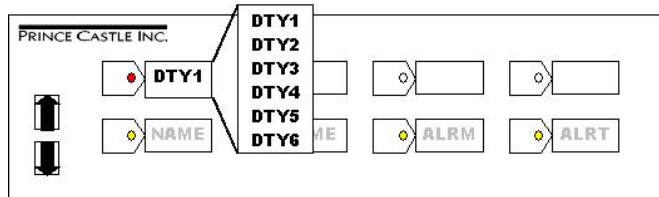
4 Press one of the option buttons (noted with a yellow LED) to select the feature to be programmed. The LED indicator for the selected feature begins to flash, a beep sounds, the LED indicators for the other features turn off, and the associated displays go blank. The display for only the selected channel shows the currently programmed value for the selected feature.

To change the current value, use the UP ARROW button or DOWN ARROW button to scroll through the selections. Holding down either the UP ARROW or DOWN ARROW buttons automatically scrolls through the possible selections.
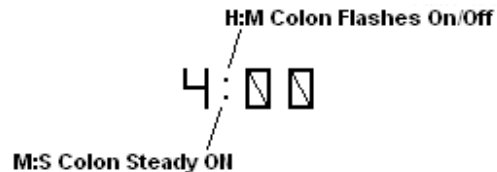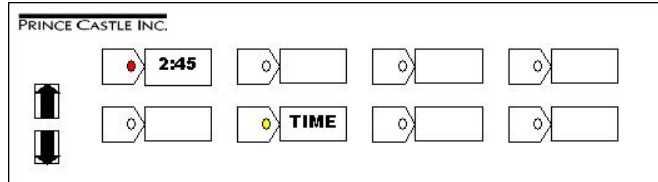
5 TIME: If the countdown time value for this duty function is to be programmed, press the button next to the display showing "TIME". The currently programmed countdown time value for this duty function shows only in the display of the selected channel.

To change the programmed time for the selected channel, press the UP ARROW button to increase the programmed time or press the DOWN ARROW button to decrease the programmed time. Holding down the UP ARROW or DOWN ARROW buttons automatically increases or decreases the programmed time.

When the desired time is showing in the channel display press the button next to the display showing "TIME" to save the value.

To exit without saving the new time value press the PRINCE CASTLE logo button.

✎ Time settings can be in Hours-Minutes (H:M) or Minutes-Seconds (M:S). Each channel's display has two LEDs to indicate the format of the displayed time.
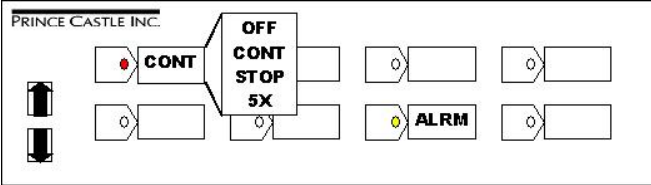
PRINCE CASTLE INC.

2:45			
	TIME		

H:M Colon Flashes On/Off

4:00

M:S Colon Steady ON

6 **ALARM: If the alarm setting for this duty function is to be programmed press the button next to the display showing "ALRM". The currently programmed setting for this duty function shows only in the display of the selected channel. To change the alarm setting, press the UP ARROW or the DOWN ARROW button to scroll through the following selections:**

- OFF = no alarm
- CONT = alarm must be manually cancelled but the next duty function begins timing automatically after alarm is first triggered
- STOP = alarm must be manually cancelled & only then does the next duty function begin
- 5X = Alarm automatically cancels after 5 secs.

7 **Holding down either the UP ARROW or DOWN ARROW buttons automatically scrolls through the possible selections. When the desired setting is showing in the channel display press the button next to the display showing "ALRM" to save the setting.**

To exit without saving the new time value press the PRINCE CASTLE logo button.
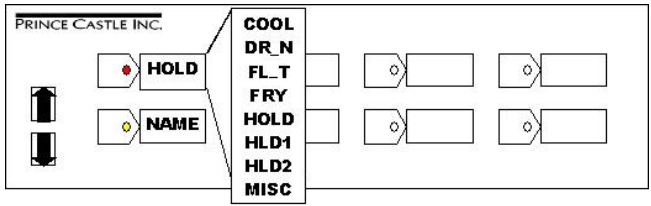
8 **NAME: Each duty function can be assigned a function name. If the name setting for this duty function is to be programmed press the button next to the display showing "NAME". The currently programmed setting for this duty function shows only in the display of the selected channel.**

To change the name setting, press the UP ARROW or the DOWN ARROW button to scroll through the following selections:

- COOL
- DR_N
- FL_T
- FRY
- HOLD
- HLD1
- HLD2
- MISC

9 **Holding down either the UP ARROW or DOWN ARROW buttons automatically scrolls through the possible selections. When the desired setting is showing in the channel display press the button next to the display showing "NAME" to save the setting. To exit without saving the new time value press the PRINCE CASTLE logo button.**
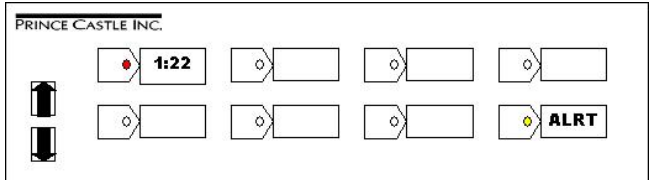
10 **ALERT: Each duty function contains a programmable, distinctive sounding, interim alert. This alert can be set anywhere within the time value of each duty function. If an alert time value for this duty function is to be programmed, press the button next to the display showing "ALRT". The currently programmed time value for this duty function shows only in the display of the selected channel.**

To change the alert time for this duty function, press the UP ARROW button to increase the programmed time or press the DOWN ARROW button to decrease the programmed time. Holding down the UP ARROW or DOWN ARROW buttons automatically increases or decreases the programmed time.

When the desired time is showing in the channel display press the button next to the display showing "ALRT" to save the value. To exit without saving the new time value press the PRINCE CASTLE logo button.

✎ **The maximum alert time setting is 5 secs. less than the corresponding duty function time and the minimum alert time setting is 5 secs. Pressing the DOWN ARROW when the alert time is at 5 secs. sets it to 0, which disables the alert for this duty function. If the duty function time is set less than its corresponding alert time, the alert is disabled and the alert time set to 0:00. After any duty function time change adjust the alert time setting to maintain the correct timing relationships.**

11 Continue this process for every desired duty function for the selected channel. If it is desired to disable any duty function in the timing cycle set that duty function's time value to "0:00".

> ✎ If any duty function is set to the value of "0:00", it and all duty functions following it will be disabled.

12 When the desired programming for the selected channel has been completed, briefly press the PRINCE CASTLE logo button. The displays again all show "PRGM, and a beep sounds.

> ✎ While in the programming mode, if no buttons are pressed for a period of 1 minute, the timer automatically exits the programming mode and all displays are changed from "PRGM" to "- - - -".

13 Repeat steps 2-12 to program any of the other seven channels.

> ✎ To cancel any operation in progress while in Run Mode (only), press the related channel button three times in quick succession. Program Mode does not support cancellation of any operation.

14 To exit the programming mode, press the PRINCE CASTLE logo button.
The displays change from "PRGM" to "- - - -".

Procedure Complete

Miscellaneous Settings

Resetting to Factory Defaults	Changing Audio Settings
Unplug the unit. Press and hold the PRINCE CASTLE logo button and the UP and DOWN buttons simultaneously. Then, plug it in again. ✎ All previously saved settings are lost upon resetting the defaults! Use with caution.	Press and hold the DOWN ARROW button (approx. 6-8 secs.) until the display shows VOL. Adjust the volume, as desired (1-3). To save the new setting, press the PRINCE CASTLE logo button.

Cleaning

Using ONLY a clean damp cloth, wipe the face and other surfaces of the 755-HM8 timer unit, as necessary. If desired, a mild soap may also be used.	✎ NEVER use chemicals and/or degreasers of any kind! Long-term use of certain chemicals has a negative effect on the surface of the timer, making it brittle and easily damaged.

Parts Identification / Function

Exploded View

NOT SHOWN: POWER CORD #72-200-11
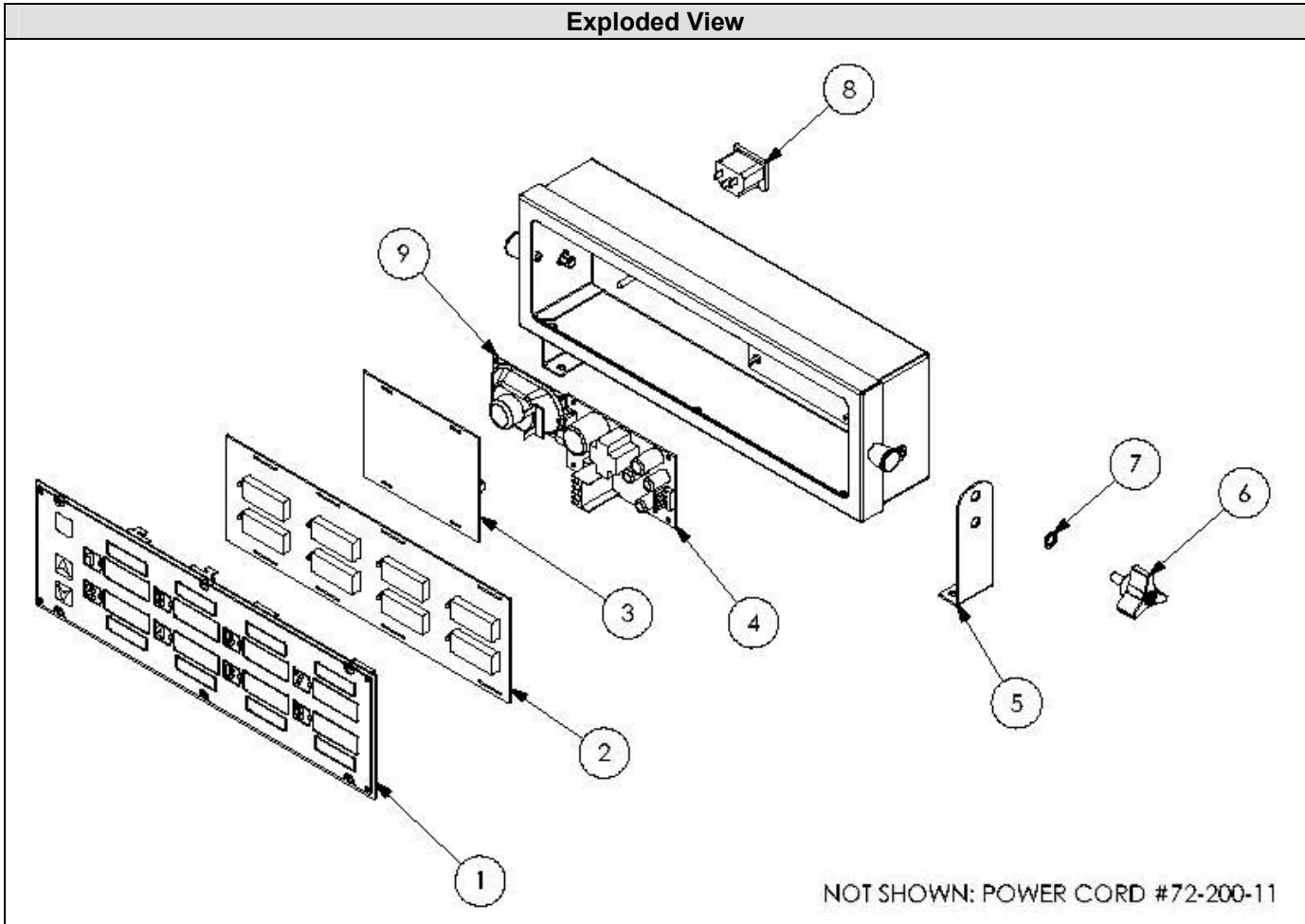
Parts List

Item	Part No.	Description	Qty
1.	740-666S	Membrane Switch Assembly	1
2.	740-477S	Display Board	1
3.	740-601S	Main Board	1
4.	85-117-02S	Power Supply	1
5.	755-013S	Mounting Bracket Assembly	1
8.	88-591S	Power Inlet	1
9.	88-709-2-11S	Speaker Assembly	1
—	72-200-11S	Power Cord (Not Shown)	1