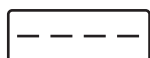


Operation



(Menu 1)

or



(Menu 2)

- When a channel's timing cycle has been activated its individual display will show the timing countdown of that channel.
- If the time is in Hours-Minutes (H:M) the colon in the middle of the 4-digits will flash. If the time is in Minutes-Seconds (M:S) the colon in the middle of the 4-digits will be on continuously.
- At the conclusion of a timing cycle the display flashes "0".
- At the conclusion of a timing cycle the display will show either "diSc" for discard or "donE" for done. This indication is programmable.

Each of the channels of the 10-Channel or 16-Channel timers operate in an identical manner.

Press a channel button to activate a timing cycle (a short beep sounds). The timers can be programmed to count up to a selected value or count down to 0:00.

NOTE: To cancel any operation in progress, press the related channel button three times in quick succession (less than three seconds). The channel LED turns off and the LED of the next channel with the lowest countdown remaining will blink.

At the conclusion of a timing cycle the display will show either "diSc" or "donE" depending on how it is programmed.

Two different timing cycles can be setup for each channel. These are called "Menu 1" and "Menu 2". To change from one menu to the other, all channels must be idle. Simultaneously press both the UP and DOWN buttons for 6 seconds. The display will change between the single-line display (Menu 1) and the three-line display (Menu 2).

Channel Defaults

HM10

	Menu 1		
	Cycle Time	Alert	Cycle End
	Time	Time	Label
Channel 1	30:00	0:00:00	DISC
Channel 2	30:00	0:00:00	DISC
Channel 3	30:00	0:00:00	DISC
Channel 4	30:00	0:00:00	DISC
Channel 5	30:00	0:00:00	DISC
Channel 6	30:00	0:00:00	DISC
Channel 7	30:00	0:00:00	DISC
Channel 8	30:00	0:00:00	DISC
Channel 9	04:00	0:00:00	DISC
Channel 10	04:00	0:00:00	DISC

Bold italic times are in Hours:Minutes. All other times are in Minutes:Seconds. Alert time = 0 (feature turned off).

Channel Defaults

HM10

	Menu 2		
	Cycle Time	Alert	Cycle End
	Time	Time	Label
Channel 1	30:00	0:00:00	DISC
Channel 2	30:00	0:00:00	DISC
Channel 3	30:00	0:00:00	DISC
Channel 4	30:00	0:00:00	DISC
Channel 5	30:00	0:00:00	DISC
Channel 6	30:00	0:00:00	DISC
Channel 7	30:00	0:00:00	DISC
Channel 8	30:00	0:00:00	DISC
Channel 9	04:00	0:00:00	DISC
Channel 10	04:00	0:00:00	DISC

Bold italic times are in Hours:Minutes. All other times are in Minutes:Seconds. Alert time = 0 (feature turned off).

Operation

Channel Defaults				Channel Defaults			
HM16				HM16			
Menu 1				Menu 2			
	Cycle Time	Alert	Cycle End		Cycle Time	Alert	Cycle End
	Time	Time	Label		Time	Time	Label
Channel 1	15:00	0:00:00	DISC	Channel 1	15:00	0:00:00	DISC
Channel 2	15:00	0:00:00	DISC	Channel 2	15:00	0:00:00	DISC
Channel 3	15:00	0:00:00	DISC	Channel 3	15:00	0:00:00	DISC
Channel 4	15:00	0:00:00	DISC	Channel 4	15:00	0:00:00	DISC
Channel 5	15:00	0:00:00	DISC	Channel 5	15:00	0:00:00	DISC
Channel 6	15:00	0:00:00	DISC	Channel 6	15:00	0:00:00	DISC
Channel 7	15:00	0:00:00	DISC	Channel 7	15:00	0:00:00	DISC
Channel 8	15:00	0:00:00	DISC	Channel 8	15:00	0:00:00	DISC
Channel 9	30:00	0:00:00	DISC	Channel 9	30:00	0:00:00	DISC
Channel 10	30:00	0:00:00	DISC	Channel 10	30:00	0:00:00	DISC
Channel 11	30:00	0:00:00	DISC	Channel 11	30:00	0:00:00	DISC
Channel 12	30:00	0:00:00	DISC	Channel 12	30:00	0:00:00	DISC
Channel 13	30:00	0:00:00	DISC	Channel 13	30:00	0:00:00	DISC
Channel 14	30:00	0:00:00	DISC	Channel 14	30:00	0:00:00	DISC
Channel 15	30:00	0:00:00	DISC	Channel 15	30:00	0:00:00	DISC
Channel 16	30:00	0:00:00	DISC	Channel 16	30:00	0:00:00	DISC

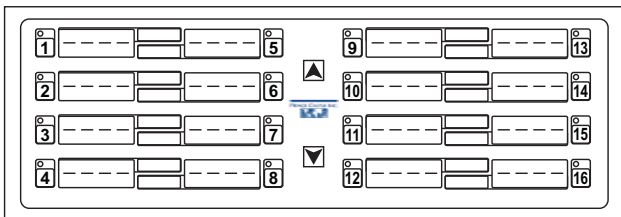
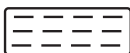
Bold italic times are in Hours:Minutes. All other times are in Minutes:Seconds. Alert time = 0 (feature turned off).

Bold italic times are in Hours:Minutes. All other times are in Minutes:Seconds. Alert time = 0 (feature turned off).

Programming

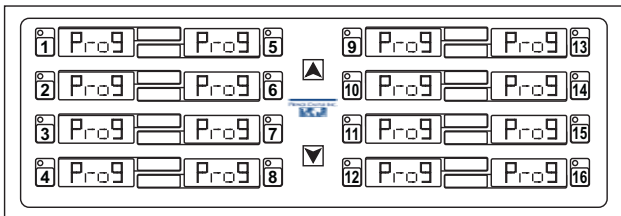
Timer Programming

To program the timer, all 10 or 16 timing channels must be idle with the display showing either one or three sets of four dashes and all LED's turned off. A single set of dashes is shown to program Menu 1 and three sets of dashes are shown to program Menu 2.



Entering Program Mode

Press and hold the Prince Castle logo button for 6-8 seconds to enter the Programming Mode. The display changes to "Prog" and all channel LED's turn red.

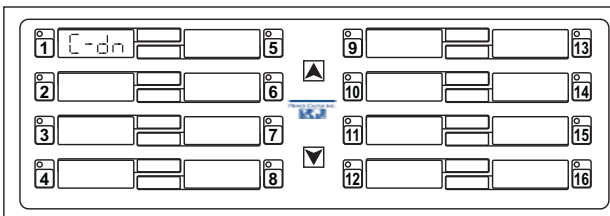
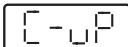


Countdown Mode

NOTE: This mode can only be entered when all channels are idle.

Enter the Countdown Mode by holding the UP button for 6 seconds. This will determine if all the timing cycles count up from 0:00 or count down to 0:00. Use the UP or DOWN buttons to toggle between count up or count down. Display 1 will indicator "C-uP" or "C-dn". When the desired mode is obtained, momentarily press any channel button to save it and return to Timing Mode.

NOTE: To return to Timing Mode without saving, momentarily press the Prince Castle logo button.



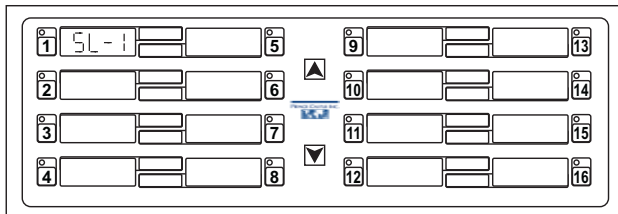
Programming

Volume Level Selection

NOTE: This mode can only be entered when all channels are idle.

Press and hold the DOWN button for 6 seconds to initiate the Volume Level Setup Mode. In this mode the timer's audio volume can be set to one of three different levels by using the UP and DOWN buttons. A display will sequence through "SL-1, SL-2, SL-3". When the desired level is obtained, momentarily press any channel button to save the setting and return to the Timing Mode.

NOTE: To return to Timing Mode without saving, momentarily press the Prince Castle logo button.



Restoring Factory Presets


Simultaneously pressing both the UP button, DOWN button and the Prince Castle logo button during the first 6 seconds after applying power to the timer will reset all channels back to their factory default settings.

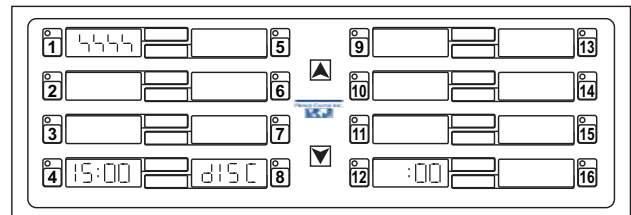
Individual Channel Programming

NOTE: This mode can only be entered when all channels are idle.

Pressing and holding the Prince Castle logo button for 6 seconds will transfer the unit into Channel Parameter Programming Mode.

When programming mode is first entered, the displays will show "Prog" until a channel is selected.

Momentarily pressing a channel's button enables the parameter-programming mode for that channel. After a channel has been selected, its associated display will show  and its timing cycle value, end of cycle label information and action alarm time information will be displayed above or below it.



While in Channel Parameter Programming Mode, pressing the channel button next to a parameter (timing value, end-of-cycle label or action alarm time) enables the programming of that parameter for the selected channel.

Use the UP and DOWN buttons to modify the value of the enabled parameter. When either the timing cycle value or action alarm time value are programmed, pressing the UP button will increment the value and pressing the DOWN button will decrement the value. Each time the UP or DOWN button is pressed the timing value increments or decrements by one count.

NOTE: If either button is pressed and held, the timing value begins to increment or decrement automatically with the change rate increasing the longer the button is held.

When the parameters for the selected channel are set, pressing the Prince Castle logo button will exit the channel's Parameter Programming Mode and return the unit to a state where another channel can be selected for programming.

When parameter changes for all channels have been completed, press the Prince Castle logo button to exit Programming Mode and return the unit to an operationally ready, idle state.

Exploded View

