

# OPERATING INSTRUCTIONS

## 893 Series Timers



### ELECTRICAL

90-130 Volts  
50/60 Hz  
15 Watts  
UL, cUL & NSF Listed

### TABLE OF CONTENTS

### PAGE

Installation .....	2
Programming .....	2-6
Operation .....	5
Parts List .....	7
Exploded View .....	7
Troubleshooting .....	8

### 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.

## INSTALLATION

1. Remove timer from shipping box. Packed with timer, there are programming instructions, three (3) product strips, one (1) grill and two (2) fryers (standard and reverse).
2. The timer is shipped programmed for grill use. If the timer is to be used on the fryer, follow the appropriate programming instructions (standard or reverse).
3. Install the appropriate product strip.
4. Remove the old timer and bracket.
5. Clean surface and install the new bracket.
  - a. There are (14) 5/16" holes spaced around the opening in the back of the bracket to use for mounting. If the holes do not line up with existing holes, new holes need to be drilled.
  - b. **Cover grill or fryer to prevent shavings from falling into fryer, grill or food prep areas.**
  - c. Use timer bracket as a template to mark holes and drill as necessary. To insure a safe installation, there should be a minimum of three self-tapping screws (top/bottom and one on each end).
  - d. In some restaurants, it will be necessary to transfer the VCK bracket from the thumbscrews provided.
6. Run timer power cord to nearest 120V outlet and install timer on bracket using the thumbscrews provided.





## ELECTRICAL REQUIREMENTS

1. There must be a 120V receptacle within 5 feet of the center of the timer.
2. Cords should not be run in a way that would cause a hazard.
3. If the receptacle is not available, find the transformer for the existing timer and extend that circuit to the new bracket.

In the following descriptions,  is for the UP Arrow,  is for the DOWN Arrow,  is for the LEFT Arrow, and  is for the RIGHT Arrow.



## QUICK START INSTALLATION

*To Select Grill or Fryer Mode:*

1. Press the Logo Button and the SCAN/ENTER Button simultaneously for 6 seconds.
2. Press the  Button to select: 1) Grill, 2) Fryer, or 3) Fryer Reverse.
3. Press the SCAN/ENTER Button to save.  
**Continue to set the Real Time Clock and Date, or press Logo to exit programming.**
4. Use the SCAN>Button to move cursor.
5. Use the Number Buttons to make changes (Note: if a number on the bottom row needs to be entered, use either of the  Buttons located on the far ends of the product strip to shift *down*).
6. When setting AM/PM, use the  and  Buttons.
7. Press the SCAN/ENTER Button to save (a test tune will play).
8. Press the Logo Button to exit programming

## ONGOING

*Volume Control*

- Use the  or  Button to change volume level when timer is not in operation.
- Productivity Messages ("STIR SAUCE-CHK WATER")*
- The display will continue to show unless the CANCEL Button is pressed, or another message comes up.
  - The audio "alarm" heard when productivity message is displayed will stop sounding in about 5 seconds.
  - If desired, pressing the CANCEL Button can terminate this "alarm". Note: this will also remove the message that is displayed.

## PROGRAMMING INSTRUCTIONS

### 1. Scope

There are four different programming modes. In the specifications below, they are referred to as levels. There is also a volume level adjustment available.

**Volume Level Adjustment** is used to set the

desired volume level.

**Level 1** is used to configure the timer for Grill or Fryer, Standard or Reverse. It also allows set-up of the Real Time Clock and a "User Test Mode" which allows verification that all Displays, LED's, Switches and Speakers are working.

**Level 2** is used to change only the time values of a timer.

**Level 3** is used to completely edit a timer: menu names, time values, alarm cancels and duty function name.

**Level 4** is used to edit, schedule and set active status for productivity messages.

## 2. Volume Level

When no timers are running and when the 893 is not in a programming mode, the Up and Down Arrow Buttons will adjust the volume level. Press and release the Up Arrow to increase volume level one step. Press and release the Down Arrow Button to decrease the volume level one step. There are seven volume steps available and a tone sounds while the Up or Down Arrow Buttons are pressed to aid in choosing the desired setting.

### 3. Level 1

1. Configure a timer for Grill or Fryer timing.
2. Set standard or reverse timer layout.
3. Set the Real Time Clock.
4. Test Displays, Switches, LED's and Speakers.

#### Procedure:

- Press and hold the LOGO button and then immediately press and hold the ENTER. Hold both buttons for 6 seconds.
- As shown below, the example timer is configured for a **Reverse Fryer**. Press the ENTER button to accept (save) this configuration. Use the  $\triangle$  or  $\nabla$  arrow buttons to choose another Timer Mode configuration, then press the ENTER button to select (save) the new timer configuration. NOTE: The new timer configuration will not be saved if only the LOGO button is

pressed:

	Left Display	Right Display
Top Line	<i>Reverse</i>	$\triangle$ $\nabla$ TO CHANGE
Bottom line	<i>Fryer Timer</i>	ENTER=SAVE/ LOGO=DONE

- When the ENTER button is pressed, the timer configuration is saved and the displays change to setting the Real Time Clock:

	Left Display	Right Display
Top Line	<i>Time: 09:00AM</i>	$\triangleleft$ $\triangleright$ =MOVE/ INPUT NUMBER
Bottom line	<i>Date: 05/14/99</i>	ENTER=SAVE/ LOGO=DONE

Initially, the cursor is positioned over the first digit of the time of day. Use the  $\triangleleft$  and  $\triangleright$  arrow buttons to move the cursor. Use the Number buttons to make changes at each cursor location for time values. When setting AM/PM, use the  $\triangle$  and  $\nabla$  arrow buttons to choose. The ENTER button saves changes and moves on to the Test Mode; the LOGO button ends level 1 programming.

- When the ENTER button is pressed, the Time of Day configuration is saved and the displays change to the Test Mode. All LED's will begin flashing on and off, the Displays will alternate between all segments on and all segments off and the Speakers will play a test tune. View each LED and Display segment to be sure each turns completely on and completely off. Additionally, press and hold any button, except ENTER or LOGO, and its reference number will appear on each Display alternately. Press and release the LOGO button to exit level 1 programming or press and release the ENTER button to exit the test mode and move back to the Timer Configuration Mode.



## 4. Level 2

To change only the time values of a timer.

**Procedure:**

- Press and hold the logo button then immediately press and hold the timer button to change. Hold both buttons for 6 seconds.
- Use the arrow keys to move the cursor through the time value locations. Make changes at the cursor location using the Number buttons.
- Press the Enter button to store the changes. Press the Logo button to stop editing this timer.

**The opening displays:**

	Left Display	Right Display
Top Line	XXXXII 1STAALM	  =MOVE/ INPUT NUMBER
Bottom line	COOK T:CT II 0:00	ENTER=SAVE/ LOGO=DONE

Where:




XXXXXXXX = Menu Name

T:CT = the Total Cook Time



0:00 = The time value for the First Duty



A = Auto Alarm Cancel

M = Manual Alarm Cancel

- The cursor will be at the T in the T:CT. Use the  and  arrow buttons to move the cursor. Use the Number buttons to make time value changes at the cursor location.
- Use the  arrow buttons to move the cursor to the 1ST duty cook time. Use the Number buttons to make time value changes at the cursor location.
- Press the ENTER button to save changes and move to the next step. Press the LOGO button to stop editing this timer. No changes are saved unless the ENTER button is pressed.

**Set the Hold time:**

	Left Display	Right Display
Top Line	XXXXII HLDAALM	  =MOVE/ INPUT NUMBER
Bottom line	COOK T:CT II 0:00	ENTER=SAVE/ LOGO=DONE

- As a reference for this step in the programming sequence, the left panel of the display will not change. It will continue to show the menu name and total cook time.
- The cursor will be at the HOLD time. Use the  and  arrow button to move the cursor. Use the Number buttons to change the time values.
- **Press the ENTER button to save all changes.** Changes will not be saved if only the LOGO button is pressed. The display will change to show the opening window. Press the ENTER button to review all changes.
- Press the LOGO button to return to the beginning of level 2 and choose another timer to edit. Press the LOGO button again to exit level 2.

**5. Level 3**

To assign or rename the selected button menu name, change time values, and alarm cancel modes.

**Procedure:**

- Press and hold the logo button for six seconds.
- Press the timer button to edit.
- Use the arrow keys and follow prompts to make changes.
- Review changes.
- Press another button to edit and make changes.
- Press the logo button to quit level 3.

**The opening window:**

	Left Display	Right Display
Top Line	Press Button To Edit	Press Button To Edit
Bottom line		LOGO=DONE

- Select a timer button to edit.
- Save and review all changes.
- Select another button to edit or press the logo button to quit.

**Set the total cook time, menu name, the first duty time, alarm, and duty name for a selected timer:**

Left Display	Right Display
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**Procedure:**

- Press and hold the LOGO button then immediately press and hold the CANCEL button. Hold both buttons for 6 seconds.
- Use the arrow keys to move the cursor. Make changes at the cursor location.
- Press the Enter button to store the changes.
- Press the LOGO button to exit level 4.

**Opening Display:**

	Left Display	Right Display
Top Line	MESSAGE X (Active)	TO VIEW MESSAGES
Bottom line	XXXXXXXXXXXXXX	ENTER=EDIT/ LOGO=DONE

Scroll through each message using the and arrow buttons. To edit the message being displayed, press Enter. The displays change to:

	Left Display	Right Display
Top Line	Edit MESSAGE X	=MOVE/ INPUT LETTER
Bottom line	XXXXXXXXXXXXXX	ENTER=SAVE/ LOGO=DONE

- Use the and arrow buttons to move the cursor through the message. Use the keypad (the characters identified for buttons 3 through 22) to enter the desired characters. Press the ENTER button to save the changes and move to set the active status of the message:

	Left Display	Right Display
Top Line	EDIT MESSAGE X	TO CHANGE
Bottom line	ACTIVE	ENTER=SAVE/ LOGO=DONE

- Use the or button to set the message active or inactive. Press the ENTER button to save changes and move to the scheduling steps.

	Left Display	Right Display
Top Line	EDIT MESSAGE X	=MOVE/ INPUT NUMBER
Bottom line	START AT YY:YY AM	ENTER=SAVE/ LOGO=DONE

- The cursor will be at the first character of the start time. Use the and buttons to move the cursor and the Number buttons to change the value at the cursor location. The time can be set for AM or PM using the and buttons when the cursor is in that location. Press the Enter button to save changes.

	Left Display	Right Display
Top Line	EDIT MESSAGE X	=MOVE/ INPUT NUMBER
Bottom line	Repeat Every YY MIN	ENTER=SAVE/ LOGO=DONE

The cursor will be on the first time value of the repeat cycle time. Use the or button to move the cursor and the Number buttons to change the time value. Press the ENTER button to save changes and the LOGO button to quit editing the chosen message and return to viewing the messages.

- Preprogrammed Productivity Messages and Times:

The 893 Timer comes with three messages pre-loaded in memory for Grill Timer mode only. The messages and times are:

No.	Message	Start Time	Repeats every
1	STIR SAUCE/ CHECK WATER	6:05 AM	15 minutes
2	CHECK/SCRAPE GRILL	6:10 AM	15 minutes
3	WASH HANDS	7:00 AM	10 minutes
4	available	_____	_____
5	available	_____	_____

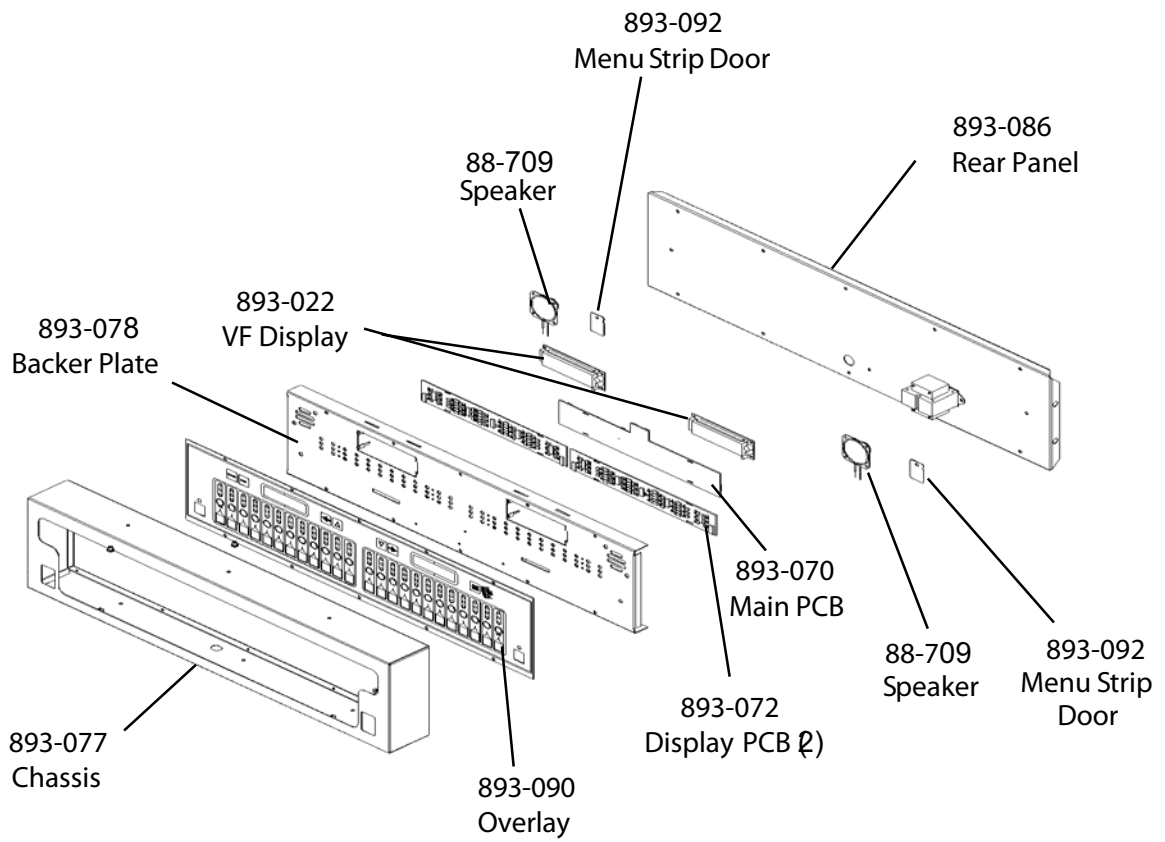
**893 INSTALLATION INSTRUCTIONS**

**893 Timer**

1. Install the timer following the 893 series timer installation instructions.
2. From the 893 series Installation Instructions, use the Quick Start Instructions to configure the timer for grill or fryer operation.

# EXPLODED VIEW

Power Cord 72-282 (not shown)  
Strain Relief 66-055 (not shown)



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## TROUBLESHOOTING GUIDE

<b>PROBLEM</b>	<b>CAUSE</b>	<b>SOLUTION</b>
A. No displays or indicators lit.	Unit unplugged. Store's circuit breaker blown.  Circuit inoperable.	Plug unit in. Reset breaker.  Replace Main Circuit Board.
B. Absence of Audio Alarm.	Speaker inoperable. Circuit inoperable.	Replace Speaker. Replace Main Circuit Board.
C. Unable to start, stop, or store timer presets in program mode.  Missing or abnormal characters in displays.	Circuit inoperable.	Replace Switch Panel. If problem persists, replace Main Circuit Board

# NOTES