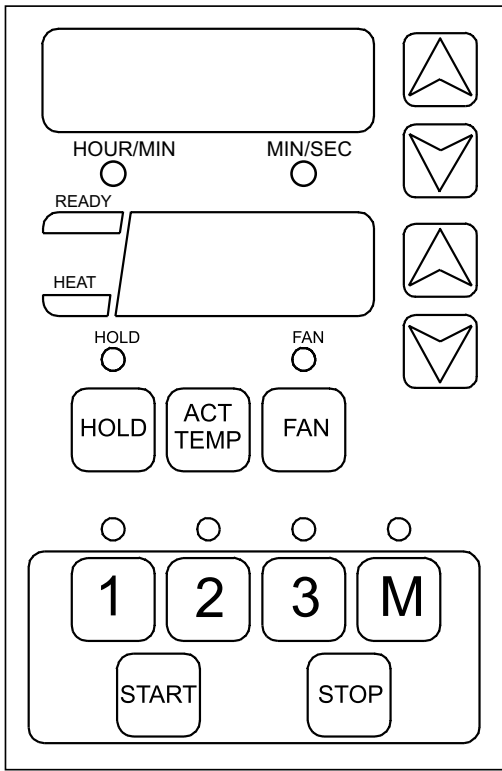




# Operating/Programming Instructions

## C&H-3 Plus™ Controller



# Cyclone

SERIES

Bakers Pride Oven Co., Inc.  
30 Pine Street New Rochelle, NY 10801  
Ph. (914) 576-0200 Fax: (914) 576-0605

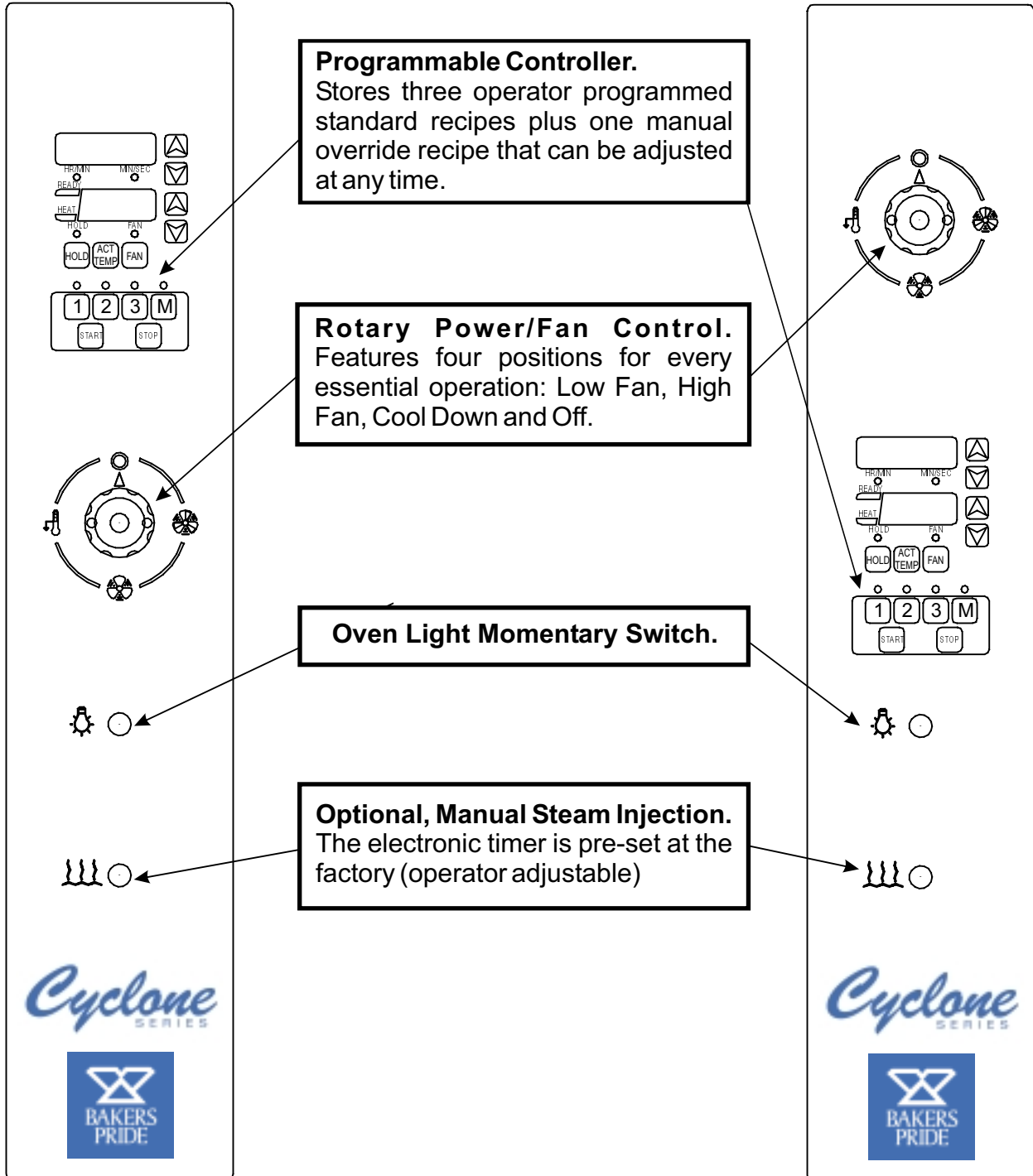
*The unauthorized use or duplication of the software described herein, or this material, is strictly prohibited.*

# Operating/Programming Instructions Cook & Hold-3 Plus Controller

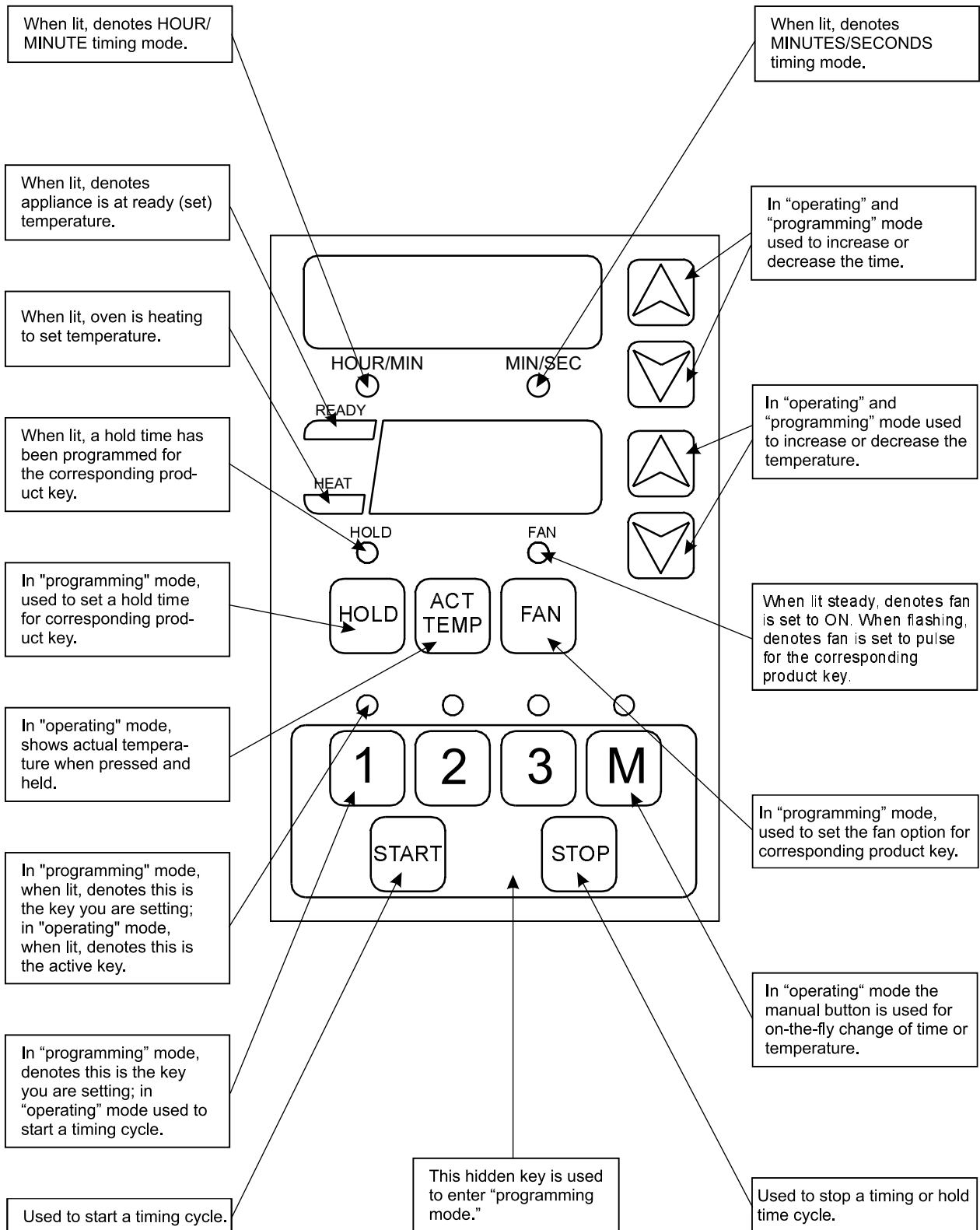
For Convection Ovens:  
CO11-G, CO11-E, COC-E  
BCO-E & GDCO-E

CO11-G, CO11-E, COC-E

BCO-E & GDCO-E



# Controller Key Description



## Operating Instructions

There are 3 programmable times and temperatures, and one manual override time and temperature setting. The timing range of all keys is from **:01** second to **99** hours (automatically switches from min/sec. to hour/min). Each key is also programmable for one hold time and a two-position fan (on/pulse).

In normal operating mode, the READY LIGHT (LED) will illuminate when the oven temperature is +20°F of set temperature. The HEAT LIGHT (LED) will illuminate when actual temperature is below set temperature and the unit is calling for heat.

Once set and actual temperatures are equal, key 1, 2, 3 or M may be pressed. The light above the corresponding key will be lit. Pressing the START key will begin a flex time countdown (time is compensating) depending on temperature.

### OPTIONAL STEAM INJECTION

The solenoid valve for steam injection is mounted behind the service panel on the right hand side of the unit on COC-E and on back of the unit on CO11 -E/G. The electronic timer is pre-set at the factory and may be adjusted by operator if required for shorter or longer steam burst. For steam injection, press the steam injection switch.

### OVEN COOL DOWN

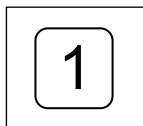
To cool down the oven to a lower desired temperature, follow the steps detailed below: Open the oven door(s). Turn selector switch to “Oven Cool Down” position. Fan will now operate and cool down the oven. When the oven has cooled to the desired temperature, turn the selector switch to the “0” position.

### OPERATING NOTES

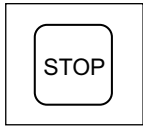
When the oven is turned on it will automatically preheat to set temperature if the door is closed.

If the door is opened while program is running, the cook cycle will pause and the display will flash. When the door is closed, the display will return to the count down from where it was paused.

## Starting a Cook Cycle



**To start a cook cycle**, simply turn selector switch to **LO** or **HI** position and press the product key for the product you wish to cook. If the product key is programmed, the correct cooking time will be displayed **12:00** (example). Press the START key and the time will immediately start to count down in minutes and seconds. If **:00** is displayed immediately and the unit starts to signal, the key being operated is not programmed. If correctly programmed, it will count down to **:00**. When zero is reached, the light above the product key will be flashing, the controller will emit an audible alarm and immediately begin counting up (if programmed for a hold time).

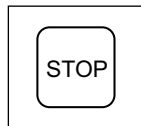


Cancel this alarm by pressing the stop key; controller will continue to count up.

## Holding Timers

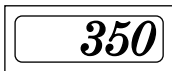
If the unit is programmed with a holding time, the holding time will automatically start counting upon expiration of the cooking cycle. When there is an active hold time, the HOLD indicator will be lit and the light above the product key with the hold time will be flashing.

To cancel, press the

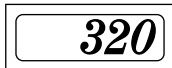


key.

## Display Descriptions



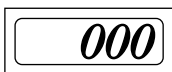
The unit is in the Operating Mode. The actual temperature is shown in the display and is within 20 degrees of the programmed temperature.



The unit is in the Operating Mode. The actual temperature will flash in the display and is more than 20 degrees below the programmed temperature range.



The unit is in the Operating Mode. The flashing display signifies a cook cycle has just been completed.

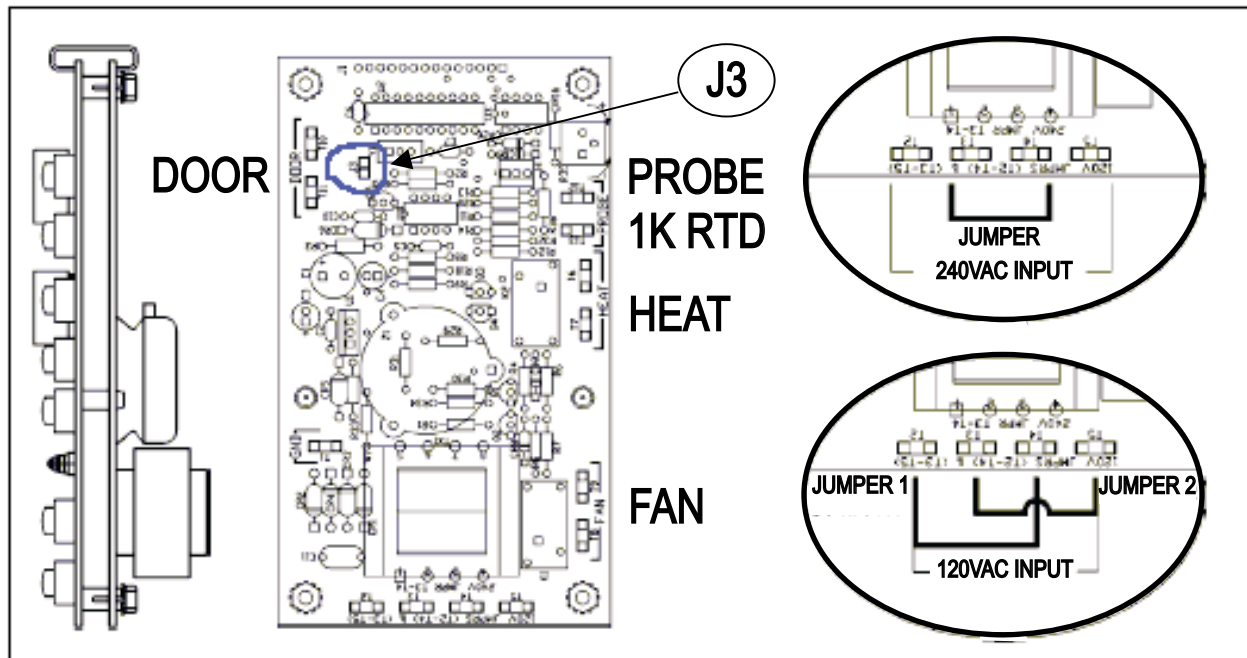


The unit is in the Operating Mode. With three zeros displayed, the probe has failed, or the appliance has gone beyond operating temperature. Shut the appliance OFF immediately and call a technician.

## Controller Features

### Fahrenheit or Celsius Temperature Display

The operator is allowed to configure the controller to display the temperature in degrees Fahrenheit or Celsius from the jumper on the back of the circuit board (J3). By default, the unit is shipped from the factory in Fahrenheit (J3 not shorted), unless otherwise specified by the customer. For Celsius display, power unit down, remove jumper from Pin 1 and short both pins. When power is re-applied, the controller will be in Celsius operation.



**Programmable Times**

The operator will have the ability to program the cook times for each product key. The controller is programmable in minutes (up to 59) and seconds (up to 59), then hours (up to 99).

**Programmable Temperatures**

The operator will be able to program cook temperatures for each product key. The valid temperature range is 150 to 550°F (66 to 288°C).

**Programmable Hold**

The operator will be able to program each product key for a counting hold time and temperature

(140 to 200°F/ 60 to 94°C) or disable the hold mode.

HOLD LIGHT (LED) ON = hold mode enabled

HOLD LIGHT (LED) OFF = hold mode disabled

**Programmable Fan**

The operator will be able to program each product key for one of two fan modes.

FAN LIGHT (LED) ON = Fan always ON

FAN LIGHT (LED) Flashing = Fan pulsed










**Flashing Display**

The temperature display will flash after every product key is pressed. The display will continue to flash until the actual temperature is within 20° of set temperature.

**Programming the Oven Controller**

The following steps are needed to enter and program each of the product keys. Please note that you must follow each of the steps below for each product key.

**NOTE:** The manual "M" key allows you to temporarily change the set temperature and time and will reset to the original programming parameters after you are done cooking. This key is programmed the same as keys 1, 2 and 3 except that programming mode does not have to be entered to do it. However, you can still manually program the controller while in programming mode.

		<b>ACTION</b>	<b>RESULT</b>
		Press the product key you want to program.	The corresponding LED will light above the selected product key.
		Enter the programming mode by pressing and holding the area between the START and STOP keys until the light above the product key starts flashing (approx. 3 second).	You have successfully entered the programming mode.
		To set the cooking time, press the up and down arrow key to the right of the display.	The longer you press the key, the faster the display will change.
		To set the cooking temperature, press the up or down arrow key to the right of the temperature display.	The longer you press the key, the faster the display will change.
		To select the hold feature and set the holding temperature, press and hold the HOLD key, then use the up or down arrow to the right of the temperature display to select your holding temperature.	This will activate the holding feature and set the holding temperature. NOTE: the light above the HOLD key will be on if you have set the hold feature correctly.
		To select the fan operation, press the FAN key until the mode you want is displayed.	<ol style="list-style-type: none"> <li>1. The light above the FAN key is on, the fan will be ON when door is closed.</li> <li>2. The light above the FAN key is flashing, the fan will ONLY be ON when the heat goes ON.</li> </ol>
		To exit the programming mode, press the space between the START and STOP keys.	The product key light will be on steady, and the program will be saved.

PORTIONS OF THIS INSTRUCTION MANUAL PERTAINING TO THE CH-100 CONTROLLER ARE REPRINTED WITH THE PERMISSION OF FOOD AUTOMATION-SERVICE TECHNIQUES, INC. (FAST).



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