



# **CBS-2021e SERIES PROGRAMMING GUIDE**

*Driven To Pioneer Innovation™*

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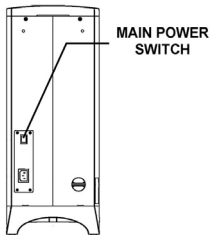
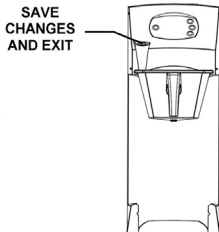
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Part # P109 REV. 000

# Controls



## Programming Mode

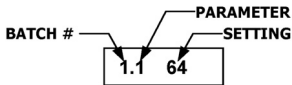
- To enter Programming mode, turn the main power switch **OFF**.  
(The main power switch is on the back of the unit.)
- Press and hold the **STOP** button while turning the main power switch **ON**.
- Release the **STOP** button when the software version is displayed.

*Example:* VER 32.A

- The **STOP** button is used to advance from one setting to the next.  
It is illuminated green when in Programming mode.
- The **BREW** buttons are used to change each setting up or down.
- To exit Programming, press and hold the **HOT WATER** button for approximately 2 seconds.
- The **ON/OFF** switch may be used to exit programming without saving new settings.

## Batch Settings

- Press **STOP** to continue.
- Batches are numbered **1** (top switch) and **2** (bottom switch)



**Example: Batch 1 – Volume 64 oz.**

- Next, the first batch parameter is displayed – batch 1, brew volume  
Use the **UP** and **DOWN** buttons to adjust. Display: **1.1 64**
- Press the **STOP** button to go to the next parameter – brew time.  
Display: **1.2 04.00**
- Repeat the last step until all parameters are programmed for batch #1.  
(See the chart below for an explanation of each parameter.)
- Next, batch #2 programming begins. Display: **2.0 OFF**  
Batch 2 may be disabled by leaving it set to “**OFF**”.  
Change to “**ON**” to enable. Batch 1 cannot be disabled.
- After both batches are programmed, the temperature settings are next.  
Display: **7 200**

## Batch Parameters (X = Batch Number)

Parameter	Name	Range	Default	Comment
X.0	Batch Enabled or Disabled	On/Off	On	This option is for batch 2 only.
X.1	Brew Volume ounces: liters:	32 – 80 0.92 – 2.32	64 oz. 1.9 ltr.	To change from ounces to liters, see Advanced Setting 59.
X.2	Brew Time (Min: Sec)	01:30 – 05:00	04:00	
X.3	Bypass Percent	Off – 30%	Off	Percentage of total brew volume.
X.4	Prewet Percent	Off – 25.%	Off	Percentage of total brew volume.
X.5	Prewet Delay (Min:Sec)	00:00 – 03:00	00:00	The time between prewetting and start of brew cycle.
X.6	Drip Delay (Min:Sec)	01:00 – 03:00	1:30	The time to allow for dripping after the brew cycle.

## Temperature Settings

Parameter	Name	Range	Default	Comment
7	Water Temp.	176°- 204°F	201°F	Inside tank. Will be slightly lower at spray head. To display in Celsius, see # 58 in Advanced Settings.
8	Hot Water Service	Auto Off On	ON	Auto= Faucet will dispense only when not brewing. On=Faucet always enabled. Off=Faucet always disabled.
9	Brew Temperature Protection	On / Off	On	ON= Will brew only at set temperature. OFF= Will brew at any temperature. Note: Changes will not take effect until the next brew cycle is complete.

10	Enter Advanced Settings & Diagnostics	On / Off	Off	OFF = Skip Advanced Settings & Diagnostics. Loop back to start of batch programming. ON = Enter Advanced Settings & Diagnostics. Press <b>STOP</b> to continue.
<b>Important!</b> After programming, you must press and hold the <b>HOT WATER</b> button to save the settings and exit programming mode, or changes will be lost.				

## Advanced Settings and Diagnostics

Address	Description	Range	Default	Comment
50	Water Resistance (K $\Omega$ )	0 - 200		Displays the electrical resistance of the water in kilohms as measured between the water level probe and the tank. If greater than 200, or if the tank is not full, the display will read ---.
51	Water Level Sensitivity	LO - HI	LO	LO – 50 K $\Omega$ +/- 5K $\Omega$ HI – 130 K $\Omega$ +/- 5K $\Omega$ If water resistance (address 50) is greater than 25 K $\Omega$ , set on HI to prevent unwanted filling of tank.



55	Tank Temperature	XXX°X		Displays current tank temperature in °F or °C.
57	Reload Defaults	0 - 1	0	Changes all settings to default factory settings. 0 = Do not reload defaults 1 = Reload all defaults If 1 is selected, you must advance to the next address for this change to take effect.
58	Temperature Scale	F or C	F	F = Fahrenheit C = Celsius
59	Water Volume Scale	oz or LTR	oz	oz = Displays volume in ounces. LTR = Displays volume in liters.

60	Brew Valve Flow Rate	17 – 51 <b>If #59 is oz.</b>  0.50 – 1.50 <b>If #59 is LTR.</b>	36   1.05	Use this to compensate for minor discrepancies in actual volume versus programmed volume. Set lower to increase volume, higher to decrease volume.
62	Bypass Valve Flow Rate	17 – 51 <b>If #59 is oz.</b>  0.50 – 1.50 <b>If #59 is LTR.</b>	44   1.30	

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