FETCO®

DRIVEN TO INNOVATION

Programming Guide For EXTRACTOR® Coffee Brewers

(CBS-2000e Series)

Default Settings

Parameter	Name	CBS-2031e/s CBS-2032e/s	CBS-2041e CBS-2042e	CBS-2051e CBS-2052e	CBS-2061e CBS-2062e
X.1	Brew Volume	2.5 LTR	1.0 GAL	1.5 GAL	3.0 GAL
X.2	Brew Time (Min:Sec)	4:00	4:00	4:00	4:30
X.3	Bypass Percent	N/A	0%	0%	0%
X.4	Prewet Percent	0%	0%	0%	0%
X.5	Prewet Delay (Min:Sec)	1:00	1:00	1:00	1:00
X.6	Drip Delay (Min:Sec)	1:00	1:30	1:30	4:00
7	Water Temp.	200 F	200 F	200 F	200 F
8	Hot Water Faucet	A (auto)	A (auto)	A (auto)	A (auto)
9	Brew at Set Temperature	1	1	1	1
58	Temperature Scale	F	F	F	F
59	Water Volume Scale	Liters	Gallons	Gallons	Gallons
60 & 61	Brew Valve Flow Rate	1.48 (If #59=LTR) 0.39 (If #59=GAL)	0.40 (If #59=GAL) 1.51 (If #59=LTR)	0.92 (If #59=GAL) 3.48 (If #59=LTR)	$1.04_{(61)}/1.10_{(62)}$ (If #59=GAL) $3.94_{(61)}/4.16_{(62)}$ (If #59=LTR)
62 & 63	Bypass Valve Flow Rate	N/A	0.33 (If #59=GAL) 1.24 (If #59=LTR)	0.33 (If #59=GAL) 1.24 (If #59=LTR)	$0.37_{(61)}/0.39_{(62)}$ (If #59=GAL) $1.4_{(61)}/1.48_{(62)}$ (If #59=LTR)

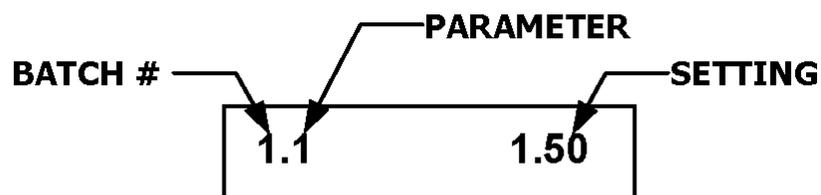*Use Parameter 57 to reset all settings to factory defaults.*

To Enter Programming Mode

⑨ Turn the brewer off by pressing the main power switch, located behind the front leg.

⑨ Press the switch again to turn it on.

*Display reads the last 2 digits of the model number briefly, then **S t b**.*

⑨ Quickly press & hold **STOP** button for 3 seconds.

*Display reads **P r G** briefly.*

⑨ The display will then show the software version.

Example: **0.0   40**
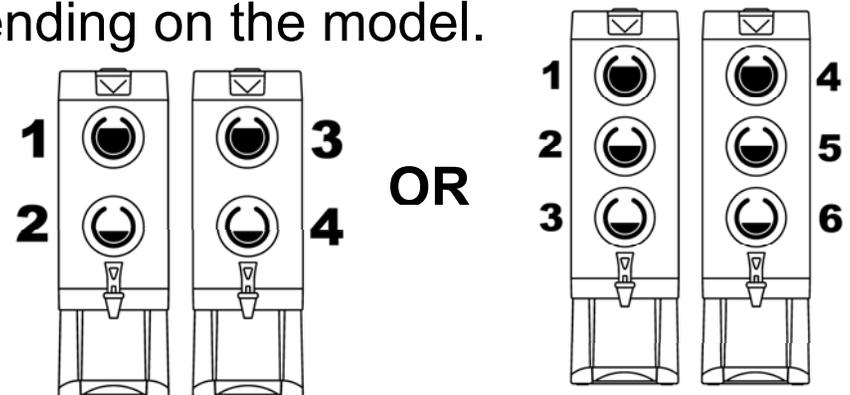
⑨ Press **STOP** again to continue. ☞ *Important* **!**
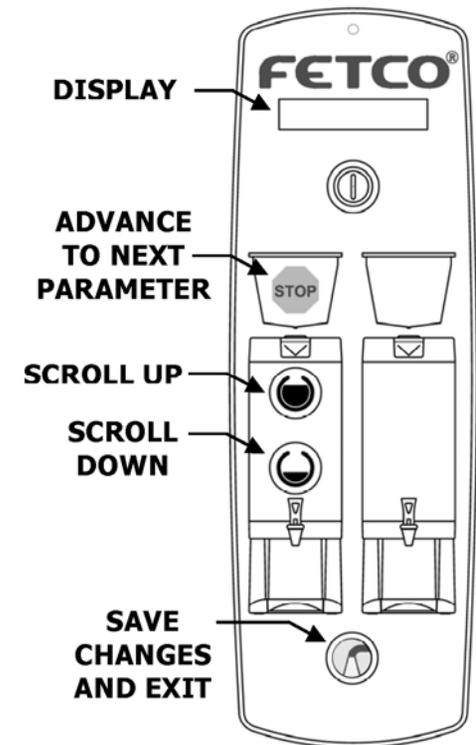
*If incorrect button is pressed, turn power switch OFF" and start again!

DISPLAY

ADVANCE TO NEXT PARAMETER

SCROLL UP

SCROLL DOWN

SAVE CHANGES AND EXIT

Batch Settings

⑨ Batches are numbered as shown, depending on the model.

BATCH # — PARAMETER — SETTING

1.1   1.50

Example:
Left Side – Large Batch – Brew Volume 1.5 Gal.

1 3
2 4

OR

1 4
2 5
3 6

⑨ Next, the first batch parameter is displayed – batch 1, brew volume
Use the **SCROLL UP** and **SCROLL DOWN** buttons to adjust.

Example: | **1.1   1.50** |

Press the **STOP** button to go to the next parameter – brew time.

Example: | **1.2   4.00** |

⑨ Repeat the last step until all parameters are programmed for batch #1.
(See the chart below for an explanation of each parameter.)

⑨ Next, batch #2 programming begins.   Display: | **2.0   OFF** |
Change to **"ON"** to enable.
(The top batch on each side cannot be disabled.)

⑨ After all batches are programmed, next are the temperature settings.

Display: | **7   200** |

Important! After programming, you must press the **HOT WATER** button
to save the settings and exit programming mode, or changes
will be lost. You may exit programming at any time.

Batch Parameters (X = Batch Number)

Parameter	Name	Range	Comment
X.0	Batch Enabled or Disabled	On/Off	Top batch on each side cannot be disabled.
X.1	Brew Volume	Depends on model.	To switch between gallons and liters, see # 59 in Advanced Settings section.
X.2	Brew Time (Min: Sec)	2:00 – 24:00	
X.3	Bypass Percent	0.00 – 40.0%	Percentage of total brew volume. *(Not available on some models.)*
X.4	Prewet Percent	0.00 – 15.0%	Percentage of total brew volume.
X.5	Prewet Delay (Min:Sec)	0:10 – 5:00	The time between end of prewet cycle and start of brew cycle.
X.6	Drip Delay (Min:Sec)	0:30 – 6:00 Minutes	Brew switch continues to flash. Baskets remain locked, if applicable.

Temperature Settings

Parameter	Name	Range	Comment
7	Water Temp. (°F)	180° - 208°F	Temperature inside tank. Will be slightly lower at CSD and faucet. To display in Celsius, see # 58 in Advanced Settings.
8	Hot Water Faucet	A (auto) On Off	A= Faucet will dispense only when not brewing. On=Faucet always enabled. Off=Faucet always disabled.
9	Brew at Set Temperature	0 - 1	0=Will brew at any temperature. 1=Will brew only at set temperature. Note: Changes will not take effect until after the next brew cycle is over.

Parameter	Name	Range	Comment
10	Enter Advanced Settings & Diagnostics	0 - 1	0 = Skip Advanced Settings & Diagnostics. Loop back to start of batch programming. 1 = Enter Advanced Settings & Diagnostics. Jumps to parameter 50.

Important! After programming, you must press the **HOT WATER** button to save the settings and exit programming mode, or changes will be lost. You may exit programming at any time.

Advanced Settings and Diagnostics

Address	Description	Range	Comment
50	Water Level in Tank	0 - 1	Tests if tank is full. 0 = Tank is not full. 1 = Tank is full.
52	Brew Basket Sensor State (left / right)	0 - 1	Not available on some models. To test, slide the brew basket in and out. Display should toggle between 0 and 1. 0 = Brew basket out. 1 = Brew Basket in.
55	Tank Temperature (*for most brewers*)	180° - 208°F	Displays current tank temperature.
56	Brewer Model Number	31 – 52 **-OR-** 61 – 62* *displays only on CBS-2061e or CBS-2062e models	Must be set for the correct model number of the brewer: 31 for CBS-2031e, 32 for CBS-2032e, 41 for CBS-2041e, etc.

57	Reload Defaults	0 - 1	Changes all settings to default factory settings. 0 = Do not reload defaults 1 = Reload all default settings If 1 is selected, you must advance to the next address for this change to take effect.
58	Temperature Scale	F or C	F = Displays temp in degrees Fahrenheit C = Displays temp in degrees Celsius
59	Water Volume Scale	GAL or LTR	GAL = Displays volume in gallons LTR = Displays volume in liters

60 and 61	Left Brew Valve Flow Rate Right Brew Valve Flow Rate	Depends on model. See User's Guide.	Use this to compensate for minor discrepancies in actual volume versus programmed volume. Set lower to increase volume, higher to decrease volume. The following formula can be used to determine the correct setting: Actual volume divided by programmed volume X current setting = new setting.
62 and 63	Left Bypass Valve Flow Rate Right Bypass Valve Flow Rate	Depends on model. See User's Guide. Not available on some models.	

64	Keypad Test	0 - 1	Tests keypad switches. 0 - Skip keypad test 1 - Keypad test active Starting at the top, press each button. Display will read the name of the switch. (S1, S2, etc.) The hot water switch must be pressed last, as this will exit the test.
65	Relay Test	0 - 1	0 - Skip relay test. Loop back to #50. 1 – Relay test active. Go to #90.

Relay Test

⚠ **WARNING! Hot water may be dispensed from the valve being tested.**

**Tests the individual relays which control various components.
Press top batch button = ON. Press bottom batch button=OFF.**

To begin, first press the blinking Control Panel Power Switch.

Address	Description	Comment
90	Left or Single Brew Valve	
91	Right Brew Valve	
92	Left or Single Bypass Valve	Not available on some models.
93	Right Bypass Valve	Not available on some models.
94	Hot Water Faucet	
95	Fill Valve	
96	Heater	To protect the heaters, this test will work only if the tank is full.
97	Left / Single Brew Basket Lock	Not available on some models.
98	Right Brew Basket Lock	Not available on some models.

Press ◓ to exit Relay Test.

Press ◓ again to exit Diagnostic mode.

Press ◓ again to exit Programming mode and return to Operating mode.

NOTICE: Be sure all valves and components are in the "OFF" position before "EXIT" is made