Batch Parameters Factory Settings

Parameter	Name	Range	Increment	Default Setting	Comment
X.0	Batch Enabled or Disabled	On/Off		Batch 1 & 3 = ON Batch 2 & 4 = OFF	Batch 1 & 3 cannot be disabled.
X.1	Brew Volume (Gallons)	0.25 – 1.25	0.01	1.0 gallons	To display liters, see # 59 in Advanced Settings section.
X.2	Brew Time (Min:Sec)	2:00 – 24:00	0:30	4:00 minutes	
X.3	Bypass Percent	0.00 – 40.0%	1%	0%	Percentage of total brew volume
X.4	Prewet Percent	0.00 – 15.0%	1%	0%	Percentage of total brew volume
X.5	Prewet Delay (Min:Sec)	0:10 – 5:00	0:10	1:00 minute	The time between prewetting and start of brew cycle.
X.6	Drip Delay (Min:Sec)	0:30 – 6:00 Minutes	0:10	1:30 minute	The time between end of brew cycle and unlocking of brew basket.

X=Batch Number (1 - 4)

Batch Parameters SRRC Settings

Parameter	Name	Volume .5 Gallon	Volume .75 Gallon	Volume 1 Gallon	Volume 1.25 Gallon
X.0	Batch Enabled or Disabled				
X.1	Brew Volume (Gallons)	1.89 Liters	2.83 Liters	3.78 Liters	4.73 Liters
X.2	Brew Time (Min:Sec)	4 min	4:30 min	5 min	5:30 min
X.3	Bypass Percent	0	0	0	0
X.4	Prewet Percent	10	10	10	10
X.5	Prewet Delay (Min:Sec)	.30	.30	.30	.30
X.6	Drip Delay (Min:Sec)	1	1	1	1

X=Batch Number (1 - 4)

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.

Temperature Settings SRRC

Parameter	Name	Range	Default Setting	Comment
7	Water Temp. (°F)	195°F - 197°F	197°F	Inside tank. Will be slightly lower at spray head. To display in ° Celsius, see # 58 in Advanced Settings. ***Teton Village SET 195 Town SET 197
8	Hot Water Service	A (auto) / On / Off	A (auto)	A= Faucet will dispense only when not brewing. On=Faucet always enabled. Off=Faucet always disabled.
9	Brew at Set Temperature	1	1	0=Will brew at any temperature. 1=Will brew only at set temperature. Note: Changes will not take effect until the next brew cycle is completed.

Parameter	Name	Range	Default Setting	Comment
10	Enter Advanced Settings & Diagnostics	0-1	0	0 = Skip Advanced Settings & Diagnostics. Loop back to start of batch programming cycle. 1 = Enter Advanced Settings & Diagnostics. Press **STOP** to continue
Important! To save your changes, press hot water button to exit programming mode and return to operating mode.				

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.

HELPFUL CONVERSIONS
1 Gram is 28 Ounces
1 Gallon is 3.78 Liters
1 Pound is 16 Ounces

17:1 RATION CHEAT SHEET
brew volume .5 gallons (64oz/1.89L) of water :: 3.76oz (106g) of coffee
brew volume .75 gallons (96oz/2.83L) of water :: 5.64oz (159g) of coffee
brew volume 1 gallon (128oz/3.78L) of water :: 7.52oz (213g) of coffee
brew volume 1.25 gallon (160oz/4.73L) of water :: 9.42oz (267g) of coffee

Advanced Settings and Diagnostics

Address	Description	Range	Default	Comment
50	Water Level in Tank	0-1		Tests if water is touching probe. 0 = Tank is less than full 1 = Tank is full
52	Brew Basket Sensor State (left / right)	0 -1		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	180°F - 208°F		Displays current tank temperature.
56	Brewer Model Number	31 - 52		Must be set for the correct model number of the brewer: 41 for CBS-2041e, 42 for CBS-2042e.
57	Reload Defaults	0-1	0	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. Does not change address 56 – model number.
58	Temperature Scale	F or C	F	F = Displays temp in degrees Fahrenheit C = Displays temp in degrees Celsius
59	Water Volume Scale	GAL or LTR	GAL	GAL = Displays volume in gallons LTR = Displays volume in liters

Address	Description	Range	Default	Comment
60 and 61	Left Brew Valve Flow Rate Right Brew Valve Flow Rate	0.30 – 0.50 *If #59 is GAL* or 1.13 – 1.89 *If #59 is LTR*	0.40 1.51	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: **X** = ACTUAL VOLUME CURRENT NEW PROGRAMMED VOLUME SETTING SETTING
62 and 63	Left Bypass Valve Flow Rate Right Bypass Valve Flow Rate	0.28 – 0.38 **If #59 is GAL** or 1.05 – 1.44 **If #59 is LTR**	0.33 1.24	
64	Keypad Test	0-1	0	Tests function of control panel switches. 0 - Skip keypad test 1 - Keypad test active Starting at the stop buttons, press each button that is lit. The display will show the name of the switch being pressed. Brew switches are named S1, S2, S3, etc. The hot water switch must be pressed last, as this will exit the test.
65	Relay Test	0-1	0	0 - Skip relay test. Loop back to #50 1 – Relay test active. Press **STOP** to continue
Press hot water button to save the settings and exit Diagnostic mode. Press hot water button again to exit Programming mode and return to Operating mode.				

Relay Test

Tests the individual relays which control various components. Use either batch button to actuate the relays.
To begin, you must first press the blinking Control Panel Power Switch.
Warning: During these tests, hot water may be dispensed from
the valve being tested.

Address	Description	Comment
90	Left or Single Brew Valve	
91	Right Brew Valve	
92	Left or Single Bypass Valve	
93	Right Bypass Valve	
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 or Single Brew Basket Lock	
98	Right Brew Basket Lock	
Press to exit Relay Test. Press again to exit Diagnostic mode. Press again to exit Programming mode and return to Operating mode.		

Error Codes

Code	Description	Possible Cause	Corrective Action	How to Clear Error Codes
001	Internal Error System had to reload default settings.	Control board failure.	Clear error. Re-program the brewer to the desired specifications. If error occurs again, replace control board.	Turn main power switch off and on.
050	Shorted temperature probe.	Probe failure.	Replace probe.	Turn main power switch off and on.
051	Open temperature probe.	Bad probe connection, or probe failure.	Check all connections. Replace probe if necessary.	Turn main power switch off and on.
075	Brew basket lock or sensor failure. Basket was in place when brew cycle started, but was pulled out during the brew cycle. If this error occurs, the brew basket lock has failed.	Brew basket lock has failed.	Repair or replace brew basket lock.	Press the flashing control panel power switch to resume operation.
		Magnet in brew basket handle is missing or loose.	Remove brew basket handle. Place magnet in correct position.	
100	Initial Fill Error Initial fill time was more than 15 minutes.	Water supply flow rate is too low.	Watch for short potting during brew cycle. Investigate cause of low flow rate. (Clogged water filter, etc.)	Press the control panel power switch.
101	Error on refill Tank did not refill within 3 minutes.	Water supply flow rate is too low.	Watch for short potting during brew cycle. Investigate cause of	Error message is cleared automatically at

		low flow rate. (Clogged water filter, etc.)		end of brew cycle.
102	Unwanted Fill When brewer is idle, the fill valve was activated for more than 30 seconds during a 1 hour period.	Possible leak in tank, fitting, or valve.	Check inside of machine for leaks.	Turn main power switch off and on.
		Output on control board has failed, causing a dispense valve to open.	Replace control board.	
200	Flat Line Temperature (Water is boiling) System is calling for heat, but the temperature does not rise at least 2°F within 10 minutes.	Triac is stuck closed, bad output on control board, or temperature is set too high for altitude.	Check triacs, check control board output, or adjust temperature for altitude.	Turn main power switch off and on.
201	Heater Open System is calling for heat, but the temperature does not rise at least 2°F within 10 minutes. This error is disabled during brewing and while using the hot water faucet.	Heating element failure.	Check and replace heating elements if necessary.	Turn main power switch off and on.
202	Heater Short System is not calling for heat, but temperature rises more than 5°F.	Possible triac stuck closed, or bad output on control board.	Check triac and control board.	Enter programming mode, then exit programming mode.
255	Keypad Error A switch was pressed for more than 45 seconds.	Switch was held in too long, or switch is stuck closed.	Clear error and try again. If error occurs without switch being pressed, replace input board.	Turn main power switch off and on.

Service and Support

For service and support information, contact the Technical Support department. Our hours are 7:00 AM to 6:00 PM Central Time, Monday through Friday.
Phone: (800) 338-2699 or (847) 719-3000
Email: techsupport@fetco.com
Utilize only qualified beverage equipment service technicians for service. A Service Company Directory may be
found on our web site, **http://www.fetco.com**.

Cleaning & Maintenance

Daily: Wipe the area above the brew basket to remove coffee residue. Daily or Weekly:
CSD Versions:
Clean the Cascading Spray Dome (CSD) with a soft brush and detergent. It may also be cleaned in a dishwasher – top rack only.
The CSD is held in place by four magnets. To remove it, grasp the bottom and pull down.
Spray Plate Versions:
The spray plate should be removed and cleaned to remove hard water deposits. In areas with extremely hard water, it may be necessary to do this daily. Weekly cleaning may be sufficient in some areas.

When cleaning the spray plate, make sure that each hole is completely free of mineral deposits. Use a toothpick to clean out each hole. Never use metal objects or abrasives on the spray plate's Teflon coating.

Quarterly:

- Check water temperature, adjust if necessary.
- Check brew levels, adjust if necessary.
- Inspect all fittings and hoses for leaks.

CSD

SPRAY PLATE

• Inspect inside of tank for lime deposits. De-lime tank and probes if necessary. This procedure should be done by a qualified service technician.