

USER'S GUIDE



Models:

- ▶ CBS-2031ee CBS-2032ee
- ▶ CBS-2041ee CBS-2042ee





CBS-2032ee







CBS-2042ee



NOTICE TO INSTALLER: Please leave this book with the machine.

Driven To Pioneer Innovation™

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Description & Features

The CBS-2030ee and CBS-2040ee series brewers feature our patented intermittent spray over technology, which works like this:

The following variables are programmed for each batch size:

 Prewet percent (Percentage of the brew volume) Brew volume

Brew time Prewet delay (The time between prewetting and the brew cycle.)

Drip delay (The time that the brew light continues to flash after the brew cycle.)

Using these variables, the software calculates how much water to use for prewetting, and brewing. The total brew time is divided into several 30 second cycles. Within these cycles, the software calculates how long to spray water over the coffee grounds, and how long to pause before the next cycle begins.

Features

Two fully programmable batch sizes per side

Adjustable prewetting cycle

Brew at temperature protection

Cascading Spray Domes

Water hardness detection

User selectable "ECO" power saver

Specifications

Requirements

Water Requirements:

CBS-2031ee: 20-75 psig, ½ gpm CBS-2032ee: 20-75 psig, 1 gpm CBS-2041ee: 20-75 psig, 1 gpm CBS-2042ee: 20-75 psig, 1 ½ gpm **Electrical:** See electrical configuration chart.

❖ Coffee Filters: 13" X 5 " FETCO Product # F002

Weights and Capacities

Brewer Model	Weight (empty)		r tank & Weight.	Weight (filled)	Dispenser Weight, ea.	Dispenser Filled, ea	Total Weight Brewer & Dispensers, Filled
CBS-2031ee	32 lbs.	3.0 gal.	25 lbs.	57 lbs.	4.4 lbs.	11 lbs.	68 lbs.
CBS-2032ee	44 lbs.	5.4 gal.	45 lbs.	89 lbs.	4.4 lbs.	11 lbs.	111 lbs.
CBS-2041ee	40 lbs.	4.2 gal.	35 lbs.	75 lbs.	8 lbs.	16 lbs.	91 lbs.
CBS-2042ee	53 lbs.	7.4 gal.	61 lbs.	114 lbs.	8 lbs.	16 lbs.	146 lbs.

Electrical Configuration and Brewing Efficiency

USA & Canada

CBS-2031ee 3.0 liters per batch

Electrical	Heater	Voltage				Maximum	Batches per H	our* (max 11)
Config. Code	Configuration	(AC)	Phase	Wires	KW	Amp draw	Cold Water	Hot Water
E31015E	1 X 2.3 KW	120	single	2 + ground	2.4	19.7	7.4	11.0

CBS-2032ee 3.0 liters per batch

Electrical	Heater	Voltage				Maximum	Batches per H	our* (max 22)
Config. Code	Configuration	(AC)	Phase	Wires	KW	Amp draw	Cold Water	Hot Water
E32015E	2 X 3 KW	120/208	single	3 + ground	4.6	22.4	14.6	22.0
		120/220			5.1	23.7	16.3	22.0
		120/240		'	6.1	25.8	19.4	22.0

CBS-2041ee 1.0 gallon per batch

Electrical	Heater	Voltage				Maximum	Batches per H	our* (max 11)
Config. Code	Configuration	(AC)	Phase	Wires	KW	Amp draw	Cold Water	Hot Water
E41016E	1 X 2.3 KW	120	single	2 + ground	2.4	19.7	5.9	11.0

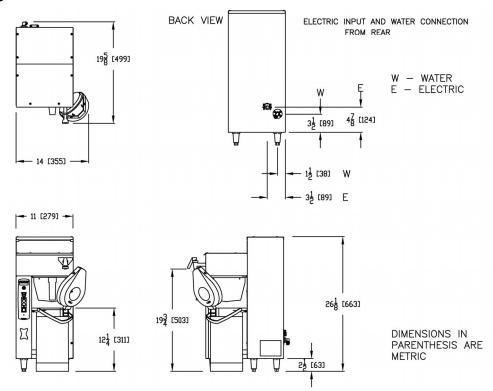
CBS-2042ee 1.0 gallon per batch

Electrical	Heater	Voltage				Maximum	Batches per H	our* (max 22)
Config. Code	Configuration	(AC)	Phase	Wires	KW	Amp draw	Cold Water	Hot Water
E42016E	2 X 3 KW	120/208	single	3 + ground	4.6	22.4	11.5	22.0
		120/220			5.1	23.7	12.9	22.0
		120/240			6.1	25.8	15.4	22.0

^{*} Based on standard factory settings: 4.0 minute brew time; 0% prewet; 200 F water.

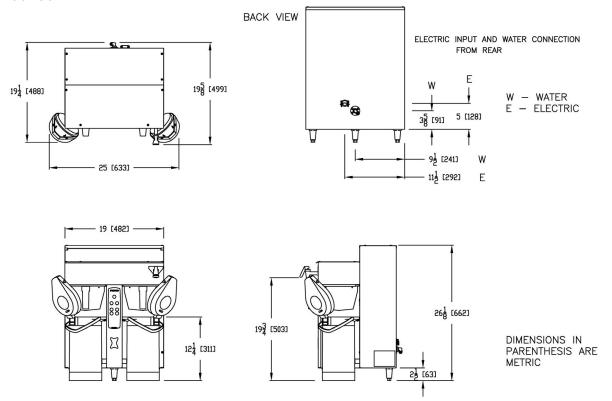
Dimensions & Utility Connections

CBS-2031ee



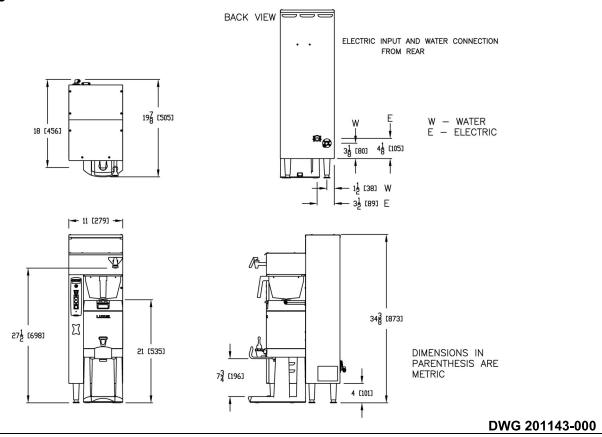
DWG 201141-000

CBS-2032ee

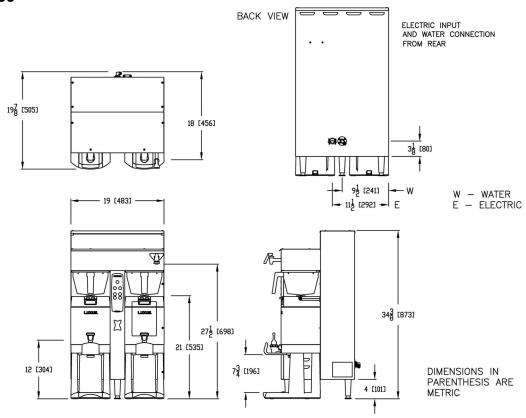


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CBS-2041ee



CBS-2042ee



DWG 201144-000

Installation

(For Qualified Service Technicians Only)

Keys To A Successful Installation

If not installed correctly by qualified personnel, the brewer will not operate properly and damage may result. Damages resulting from improper installation are not covered by the warranty.

Here are the key points to consider before installation:

Electrical:

- ❖ All FETCO brewers require **NEUTRAL**. Ground is not an acceptable substitute. Installation without neutral may cause damage to the electronic components.
- ❖ The electrical diagram is located on the inside of the lower cover.
- The installation must comply with applicable federal, state, and local codes having jurisdiction at your location. Check with your local inspectors to determine what codes will apply.

Plumbing:

- This equipment is to be installed to comply with the applicable federal, state, or local plumbing codes.
- The water line must be flushed thoroughly prior to connecting it to the brewer to prevent debris from contaminating the machine.
- ❖ Before connecting it to the brewer, verify that the water line pressure is 20 75 psig and the flow rate meets the following minimum requirements:

CBS-2031ee: ½ gpm CBS-2041ee: 1 gpm CBS-2032ee: 1 gpm CBS-2042ee: 1 ½ gpm

General:

❖ Utilize only qualified beverage equipment service technicians for installation. A Service Company Directory may be found on our web site, http://www.fetco.com.

Installation Instructions

Brewer Setup

- 1. Review the Dimensions for the unit you are installing. Verify that the brewer will fit in the space intended for it, and that the counter or table will support the total weight of the brewer and dispensers when filled.
- 2. The brewer's legs are shipped inside the brew baskets. Remove the brew basket(s) and the coffee dispenser(s). Place the brewer on its back and screw in the legs.
- 3. Place the brewer on the counter or stand.
- 4. When the brewer is in position, level it front to back as well as side to side by adjusting the legs.



Warning: Legs are to be adjusted for leveling the brewer only. Do not use for height adjustment or extend them higher than necessary.

5. Remove the lower cover to access the water and electrical connections. Knock-outs are provided in the back and base of the brewer body for the connections.

Water Connection

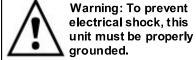
- 1. Water inlet is a 3/8 inch male flare fitting.
- 2. The brewer can be connected to a cold or hot water line. Cold water is preferred for best coffee flavor, but hot water will allow for faster recovery times.
- 3. Install a water shut off valve near the brewer to facilitate service. If an in-line water filter is used, it should be installed after the water shut off valve and in a position to facilitate filter replacement.
- 4. Flush the water supply line and filter **before** connecting it to the brewer.
- 5. Verify that the water line meets the pressure and flow requirements listed above.

Electrical Connection – US & Canada

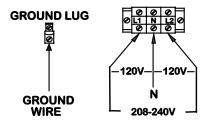
- 1. Verify that the actual voltage at the electrical service connection is compatible with the specifications on the brewer's serial number label. Make sure the electrical service includes **neutral**.
- 2. The temperature and water tank fill level are pre-set at the factory. There is no need to turn off the heaters during the installation process. The heaters are disabled by the control board until the tank is full of water. The heating process will start automatically when the tank has filled.
- 3. The CBS-2031ee and CBS-2041ee models are factory equipped with a 120 V cord and plug. The CBS-2032ee and 2042ee have only a terminal block for connecting the incoming power wires. Consult local codes to determine if a cord and plug can be installed, or if the unit must be hard wired.

4. A fused disconnect switch or circuit breaker on the incoming power line must be conveniently located near the brewer, and its location and markings known to the operators.

5. The body of the brewer must be grounded to a suitable building ground. A ground lug is provided in the brewer next to the power terminal block. Use only 10 gauge copper wire for grounding.

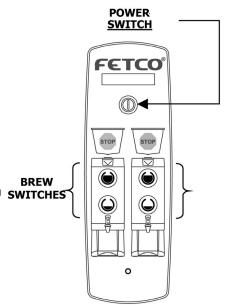


- 6. Electrical connections must be secured in-place within the unit to meet national and local standards.
- 7. Finally, plug the brewer in to the appropriate outlet (120 VAC models), or connect the incoming power wires to the terminal block as shown in accordance with applicable codes (120/208-240 VAC models only).



Final Setup

- 1. Turn on the incoming water supply line and inspect both inside and outside of the brewer for leaks in all fittings and tubes
- 2. Turn on the incoming power.
- 3. Press the brewer's power switch, which is near the top of the control panel.
- 4. Within 6 seconds, the hot water tank will begin filling until the water is sensed by the probe at the top of the tank. The display will read "FIL". The heaters will be disabled by the control board until the tank is full.
- 5. While the water is heating, the display will read "LO" and the actual water temperature will be displayed. After the water has reached the set temperature, the display will be blank. There is no "ready" light.
- 6. Review the Operating Instructions. Brew one full batch (water only) on each side to confirm proper fill levels. The brewer is factory set with water only (no coffee) to dispense the correct amount of water. If the actual volume is slightly different from the programmed volume, finetuning the brewer may be necessary. See #60 61 in the Advanced Settings & Diagnostics section.
- 7. Re-attach the covers after one final inspection for leaks. Look closely in the top of the brewer at the dispense fittings during this inspection.



Operator Training

Review the operating procedures with whoever will be using the brewer. Pay particular attention to the following areas:

- 1. Always pre-heat the dispensers before the first use of each day by filling them half way with hot water, and letting them stand for at least 15 minutes.
- 2. Don't remove the brew basket until it has stopped dripping.
- 3. Make sure the dispenser is empty before brewing into it.
- 4. Show how to attach covers, close, and or secure the thermal dispensers for transporting.
- 5. Show how to remove and clean the Cascading Spray Domes.
- 6. Show the location and operation of the water shut off valve as well as the circuit breaker for the brewer.
- 7. Steam from the tank will form condensation in the vent tubes. This condensation will drip into and then out of the brew baskets. 1/4 cup discharging overnight is possible. Place an appropriate container under each brew basket when not in use.
- 8. We recommend leaving the power to the brewer on overnight. The water tank is well insulated and will use very little electricity to keep the tank hot. Leaving the brewer in the on position will also avoid delays at the beginning of shifts for the brewer to reach operating temperature.

Operating Instructions

Control Panel Functions

Only switches that are active are illuminated. Switches that are inactive or disabled are invisible.

Power Switch

- □ Turns brewer on and off.
- □ To turn on, press and hold briefly until display reads **S t b**.

Display

- □ "FILL" = Water tank is filling.
- "LO XXX" = Unit is heating, not ready to brew. (XXX = actual temperature.)
- □ Blank = Ready to brew.
- □ Also displays error messages.

Stop Switches

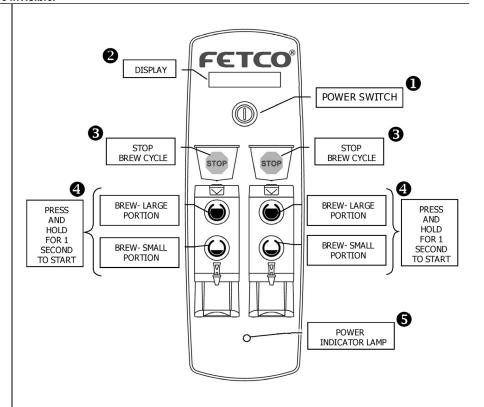
- □ Stops brew cycle
- □ Lit = Brew cycle in progress
- □ Invisible = Not brewing, or dripping in progress

Brew Switches

- □ Starts brew cvcle
- ☐ Must be held in for 1 second
- □ Flashing = Brew cycle in progress
- □ Lit = Ready to brew
- □ Invisible Not ready to brew, or batch disabled (See Programming Section)

6 Power Indicator Lamp

☐ The lamp is lit whenever the unit is connected to a power source.



Brewing

- 1. Turn the power switch on.
- 2. Prepare a brew basket with the correct size filter and appropriate amount of coffee.
- 3. Slide the brew basket completely into the rails.
- Place a clean, empty, preheated dispenser under the brew basket.
- 5. Select a batch from the available choices, and hold the corresponding BREW button in for 1 second to start the brew cycle.
- The STOP button will illuminate, and the selected BREW button will flash, indicating that brewing is in progress. All other BREW buttons will extinguish.
- 7. When the brew cycle is finished, the STOP button will extinguish and the BREW button will continue to flash for the amount of time programmed into the drip delay setting. This indicates that coffee may still be dripping from the bottom of the brew basket.
- 8. Before removing the brew basket or dispenser, visually verify that dripping has stopped.

Notes:

□ Preheat dispenser by filling at least ½ full with water at brewing temperature. Allow it to sit for at least 15 minutes before draining.

Programming

Batch Settings

Display

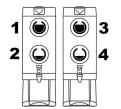
- Turn the brewer off by pressing the power switch.
- Press and hold the power switch until the display reads P r G.
 The left side STOP button will illuminate.

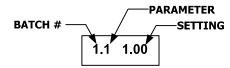
ΡrG

- Quickly press the STOP button.
- The display will show the software version. Example:

0.0 03.L

- Press STOP to continue.
- ❖ Batches are numbered 1 2 (single side) or 1 4 (dual side)





Example: Left Side – Large Batch – Volume 1.0 Gal.

Next, the first batch parameter is displayed – batch 1, brew volume Use the SCROLL UP and SCROLL DOWN buttons to adjust. Press the STOP button to go to the next parameter – brew time. 1.1 1.00

1.2 4.00

- Continue this way until all parameters are programmed for batch #1.
 (See the chart below for an explanation of each parameter.)
- Next, batch #2 programming begins.
 Batches 2 and 4 may be disabled by leaving them set to "OFF".
 Change to "ON" to enable. Batches 1 and 3 cannot be disabled.

2.0 OFF

After all batches are programmed, go to temperature settings.

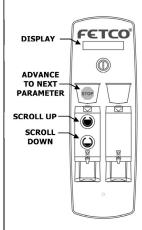
7 200

(See next page)

Important! After programming, you must press and hold the **STOP** button until the display reads **STO** 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 (1 - 4)				
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:				To change setting to liters or gallons, see
	CBS-2031ee/2032ee	0.94 – 4.72	0.01	2.49 liters	# 59 in Advanced
	CBS-2041ee/2042ee	0.25 – 1.25	0.01	1.0 gallons	Settings section.
X.2	Brew Time (Min:Sec)	2:00 - 9:30	0:30	4:00 minutes	
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)				The time between
	CBS-2031ee/2032ee	0:30 — 6:00	0:10	1:00 minute	end of brew cycle and unlocking of
	CBS-2041ee/2042ee	0:30 - 6:00	0:10	1:30 minute	brew basket.



Temperature Settings

Parameter	Name	Range	Default Setting	Comment
7	Water Temp. (°F)	188°F - 206°F	200°F	Inside tank. Will be slightly lower at spray head. To display in ° Celsius, see # 58 in Advanced Settings.
7.1	ECO Mode	OFF/ON	OFF	ON= After 1 hour passes without brewing, the temperature setting will automatically be lowered by 30°F, and the display will read ECO. Press STOP to resume normal heating. The hot water faucet may be used without affecting the ECO cycle, however the temperature of the dispensed water may be lower than desired.
9	Brew at Set Temperature	0 - 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	0 - 1	0	0 = Skip Advanced Settings &
	Settings &			Diagnostics. Loop back to start of
	Diagnostics			batch programming cycle.
				1 = Enter Advanced Settings &
				Diagnostics.
				Press STOP to continue

Important! To save your changes, press and hold **STOP** until the display reads **STO** to exit programming mode and return to operating mode.

Advanced Settings and Diagnostics

Address	Description	Range	Default	Comment
50	Water Level	0 - 1		Tests if water is touching probe.
	in Tank			0 = Tank is less than full
				1 = Tank is full
51	Water Resistance	0 - 200		Displays the electrical resistance of the water in
	$(K\Omega)$			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
53	Power Relay State	0 – 1		To check the function of the power relay, press the
				power button repeatedly. The display should
				toggle between 0 and 1.
54	Water Level	LO - HI	LO	LO – 0 to 50 KΩ
	Sensitivity			HI – 50 to 130 KΩ
				If water resistance (address 51) is greater than 25
				$K\Omega$, set on HI to prevent unwanted filling of tank.
55	Tank Temperature	180°F - 208°F		Displays current tank temperature.
56	Brewer Model	31 – 41		Must be set for the correct model number of the
	Number	or		brewer: 31 for CBS-2031ee, 32 for CBS-2032ee,
		32 - 42		41 for CBS-2041ee, 42 for CBS-2042ee.
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 = Fahrenheit C = Celsius
59	Water Volume Scale			GAL = Displays volume in gallens
	CBS-2031ee/2032ee	GAL or LTR	LTR	GAL = Displays volume in gallons LTR = Displays volume in liters
	CBS-2041ee/2042ee	GAL or LTR	GAL	LTT - Displays volume in liters

Address	Description	Range	Default	Comment
60	Left Brew Valve			
and	Flow Rate			
61	Right Brew Valve			
	Flow Rate CBS-2031ee/2032ee	0.05 0.04	4.00	
	CB3-203 Tee/2032ee	0.35 – 2.24 If #59 is LTR	1.30	Use this to compensate for minor discrepancies in
		11 #39 IS L I K		actual volume versus programmed volume. Set
		or		lower to increase volume, higher to decrease volume. The following formula can be used to
		0.09 – 0.59	0.34	determine the correct setting:
		If #59 is GAL	0.01	dotog.
	CBS-2041ee/2042ee	0.09 - 0.59	0.40	ACTUAL VOLUME CURRENT NEW
		If #59 is GAL		PROGRAMMED VOLUME X SETTING = NEW SETTING
		or		
		0.35 – 2.24	1.51	
		If #59 is LTR	1.51	
64	Keypad Test	0 - 1	0	Tests function of control panel switches.
04	Neypau rest			Starting at the batch buttons, press each button
				that is lit. The display will show the name of the
				switch being pressed and the switch light will go
				out. Brew switches are named S1, S2, S3, etc.
				The left STOP switch must be pressed last, as
				this will exit the test.
65	Relay Test		0	Tests the individual relays that control various
				components.
				0 - Skip relay test.
				To start Relay Test, press top batch button –
				display will read OFF.
				Press power switch – display will read ON.
				Press STOP to continue.
				Use the batch buttons to turn each component
				ON and OFF.



Warning: During these tests, hot water may be dispensed from the valve being tested.

Address	Description
90	Left or Single Brew Valve
91	Right Brew Valve
95	Fill Valve
96	Heater (To protect the heaters, this test will work only if the tank is full.)
Press STO	P to go back to address 65.
Press the I	ower batch button to exit the Relay Test

67 Factory Use Only – Do not use.

Important! To save your changes, press and hold STOP until the display reads STO 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.	Press and hold the Power switch for 3 seconds.
002	Power Failure	Power relay feedback loop does not match the state.	Clear error. If error occurs again, call Technical Support for assistance.	Press and hold the Power switch for 3 seconds.
050	Shorted temperature probe.	Probe failure.	Replace probe.	Press and hold the Power switch for 3 seconds.
051	Open temperature probe.	Bad probe connection, or probe failure.	Check all connections. Replace probe if necessary.	Press and hold the Power switch for 3 seconds.
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 and hold the Power switch for 3 seconds.
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 low flow rate. (Clogged water filter, etc.)	Press and hold the Power switch for 3 seconds.
102	Unwanted Fill When brewer is idle, the fill valve was activated for	Possible leak in tank, fitting, or valve.	Check inside of machine for leaks.	Press and hold the Power switch for 3 seconds.
	more than 30 seconds during a 1 hour period.	Water supply flow rate is too low.	Investigate cause of low flow rate. (Clogged water filter, etc.)	Scotlag.
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.	Press and hold the Power switch for 3 seconds.
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.	Press and hold the Power switch for 3 seconds.
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.	Press and hold the Power switch for 3 seconds.
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 control board.	Press and hold the Power switch for 3 seconds.

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

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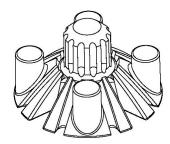
Cleaning & Maintenance

Daily: Wipe the area above the brew baskets to remove coffee residue.

Daily or Weekly: Clean each Cascading Spray Dome with a soft brush and detergent.

They may also be cleaned in a dishwasher – top rack only.

Each CSD is held in place by four magnets. To remove, grasp the bottom and pull down.

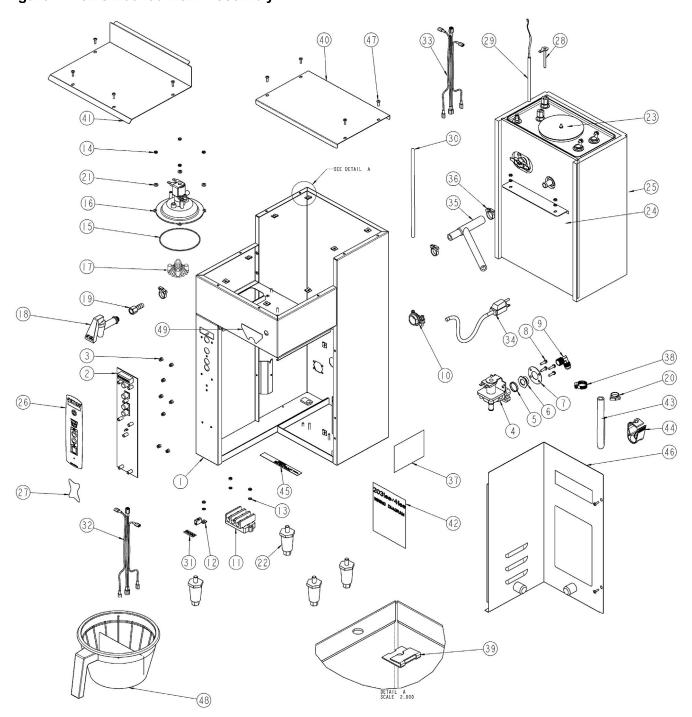


Quarterly:

- Check water temperature and adjust if necessary.
- Check brew levels and adjust if necessary.
- Inspect all fittings and hoses for leaks.
- Inspect inside of tank for lime deposits. De-lime tank and probes if necessary. A qualified service technician should perform this procedure.

Parts

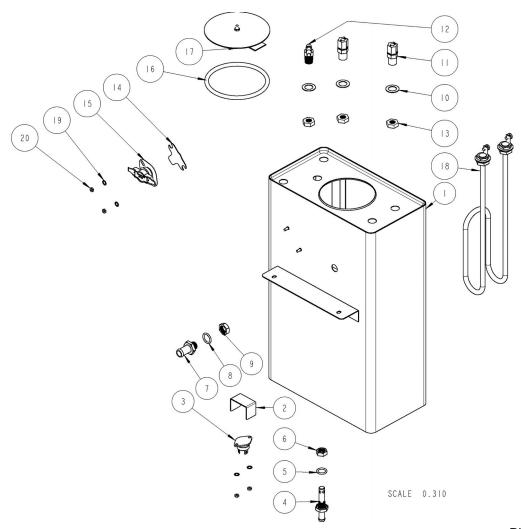
Figure 1 - CBS-2031ee Main Assembly



DWG 101269-B

ITEM#	QTY	PART #	DESCRIPTION		
1	1	001088	WELDMENT CBS-2031ee		
2	1	51089	BOARD,SWITCHING / CONTROL, 100-120VAC (SINGLE)		
3	8	29007	NUT, #4-40 KNURLED THUMB		
4	1	57006	VALVE, S-53 120VAC		
5	1	24012	GASKET, S-53 FILL VALVE		
6	1	31078	FITTING, S-53 FILL VALVE INLET		
7	1	03074	BRACKET, S-53		
8	4	82020	SCREW, S-53 FILL VALVE		
9	1	31031	FITTING, 90° MALE ELBOW, 3/8 TUBE OD X 3/8 MPT		
10	1	86040	CONNECTOR, CABLE CLAMP, 3/4"		
11	1	52090	TERMINAL BLOCK, 3 POLE, W/ MARKING STRIP		
12	1	65002	CONNECTOR, COPPER LUG		
13	5	83026	WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE		
14	9	84002	NUT, HEX, #8-32 MACHINE SCREW		
15	1	24101	O'RING, 3.739" ID X 0.070" CS, 70 DURO, BUNA "N", FDA		
16	1	102357	ASSEMBLY, HOUSING SPRAY W/VALVE 120 VAC, CSD Ø 3.6" (SEE FIG. 10)		
17	1	102363	ASSEMBLY, CASCADE SPRAY DOME, "EE"		
18	1	71021	FAUCET, COMPLETE, HOT WATER, RED SAFETY HANDLE		
18		71023	FAUCET UPPER ASSY., HOT WATER, RED SAFTEY HANDLE		
18		71003	FAUCET SEAT CUP, HOT WATER		
19	1	31075	FITTING, 3/8'ID x 1/4" FPT		
20	3	86007	CLAMP, HOSE, .593"656" DIA RANGE		
21	4	83076	WASHER,#8 SCREW SIZE, CUSHION AND SEALING		
22	4	73029	LEG, THERMOPLASTIC, 2.50"(63mm)		
23	1	104094	ASSEMBLY, TANK CBS-2031ee, O-RING FITTINGS (SEE FIG. 2)		
24	1	22125	INSULATION TANK FRONT CBS-2031ee		
25	1	22063	INSULATION TANK BACK CBS-2031e		
26	1	45097	OVERLAY, CBS-2031ee		
27	1	41016	LABEL, EXTRACTOR		
28	1	K028	WATER LEVEL PROBE REPLACEMENT, CBS-2030'S		
29	1	54026	PROBE, TEMPERATURE 5" LONG, 50k		
30	1	25137	TUBE, 5/16"OD X 3/16"ID X 11"LG VENT		
31	1	44004	LABEL GROUND		
32	1	402094	HARNESS, LOW AMP, CBS-2031ee/41ee		
33	1	402095	HARNESS, HIGH AMP, CBS-2031ee/41ee		
34	1	63019	CORD, 120 VAC, 12/3 AWG ,20 AMP , W/5-20P NEMA PLUG		
35	1	24102	MANIFOLD TEE, REDUCING, WATER DISTRIBUTION, SILICONE		
36	1	86038	CLAMP, HOSE, .670"780" DIA RANGE		
38	1	86016	WORM DRIVE CLAMP 7/16" - 25/32"		
39	10	84050	NUT, CLIP ON (J-NUT), #6-32, 22 - 20 GA., BLACK-PHOSPHATE FINISH		
40	1	01506	COVER TOP CBS-2031 & 41		
41	1	01507	COVER BASE UPPER CBS-2031		
42	1	401347	WIRING DIAGRAM, CBS-2031ee/2041ee		
43	1	25139	TUBE, 5/8"OD X 3/8"ID X 15"LG DRAIN/FILL		
44	1	86030	CLAMP, 3/4" MAX TUBE OD FLOW CONTROL		
45	1	44048	WARNING LABEL		
46	1	102358	ASSEMBLY, RIGHT COVER CBS-2030's ee		
47	10	82053	SCREW, # 6-32 X 1/2" TRUSS HD PH		
48	1	101266	ASSEMBLY, BREW BASKET, 13 X 5, DIA HOLE 0.218", 0.25" FLG (SEE FIG. 9)		
49	1	44050	LABEL, WARNING, "HOT WATER FAUCET"		

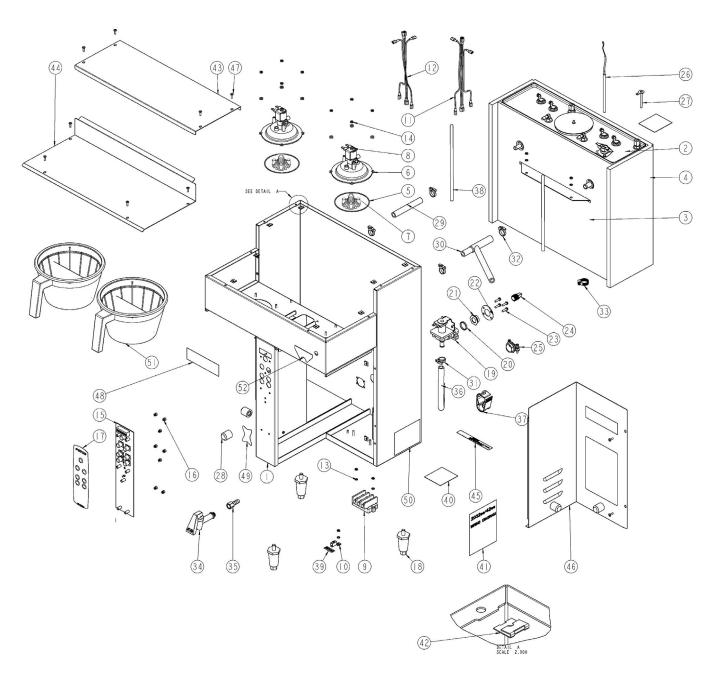
Figure 2 – CBS-2031ee Tank Assembly, Part # 104094



DWG 104094-A

ITEM#	QTY	PART#	DESCRIPTION
1	1	004088	WELDMENT TANK CBS-2031ee, O-RING FITTINGS
2	1	03297	SINK, HEAT FOR 40A TRIAC
3	1	59008	TRIAC 40A, 600V
4	1	13139	FITTING 3/8" HOSE ID WATER INLET/DRAIN
5	1	24099	O-RING, 1/2 X 11/16, 3/32 WIDTH
6	1	13134	NUT FOR 3/8 HOSE ID FITTING
7	1	13137	FITTING 1/2" HOSE ID
8	1	24098	O-RING 9/16 X 3/4, 3/32 WIDTH
9	1	13135	NUT FOR 1/2 HOSE ID FITTING
10	3	83084	WASHER .875"OD X .536"ID, FLA, 22 GA
11	2	25098	FITTING, COMPRESSION MALE CONNECTOR
12	1	25128	FITTING, 90 DEG. ELBOW, 1/4 NPT X 5/16 BARB, KYNAR
13	3	23249	LOCKNUT 1/4"-18 NPT MODIFIED THREAD
14	1	03332	BRACKET 2, ONE SHOT THERMOSTAT
15	1	53071	THERMOSTAT, SINGLE SHOT, 25A
16	1	24002	O-RING, TANK COVER
17	1	102013	ASSEMBLY, TANK COVER
18	1	107020	ASSEMBLY, IMMERSION HEATER, 2300W, 120VAC
19	4	83011	WASHER, #6 SCREW SIZE, INTERNAL
20	4	84045	NUT, HEX 6-32, UNDERSIZED

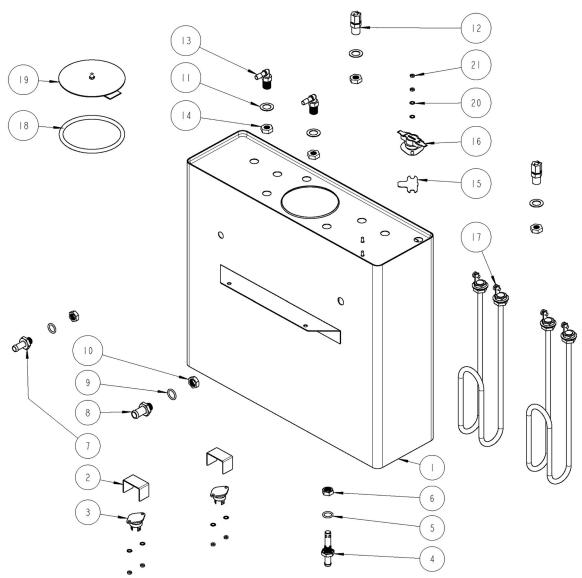
Figure 3 – CBS-2032ee Main Assembly



DWG 101270-B

1	ITEM#	QTY	PART#	DESCRIPTION	
1	1	1	001086	WELDMENT, CBS-2032ee	
1	2	1	104095	ASSEMBLY, TANK CBS-2032ee, O-RING FITTINGS (SEE FIG. 4)	
5 2 24101 ORING, 3.739° ID X 0.070° CS, 70 DURO, BUNA "N", FDA 6 2 102363 ASSEMBLY, HOUSING SPRAY WINAUE 120 VAC, CSD Ø 3.6" (SEE FIG. 10) 7 2 102363 ASSEMBLY, CASCADE SPRAY DOME, "EF" 8 8 83076 WASHER, BS CCREW SIZE, CUSHON AND SEALING 9 1 52090 TERMINAL BLOCK, 3 FOLE, W/ MARKING STRIP 10 1 65002 CONNECTOR, COPPER LUG 11 1 402096 HARNESS, LOW AMP, CBS-20326e/42ee 12 1 402096 HARNESS, HIGH AMP, CBS-20326e/42ee 13 5 83026 WASHER, INTERNAL TOOTH LOCK, MB SCREW SIZE 14 13 84002 WIT, HEX, #8-32 MACHINE SCREW 15 19090 BOARD, SWITCHING/CONTROL, 100-120VAC (DUAL) 16 8 29007 NUT, #4-40 KNURLED THUMB 17 1 45098 OVERLAY CBS-20326e, ECONOMIC 18 3 73029 LEG, THERMOPLASTIC, 2.50°(83mm) 19 1 67000 VALVE, S83 120VAC 20 1<	3	1	22126		
6 2 102357 ASSEMBLY, CASCADE SPRAY DOME. "EE" 7 2 102333 ASSEMBLY, CASCADE SPRAY DOME. "EE" 8 8 83076 WASHER,#8 SCREW SIZE, CUSHION AND SEALING 9 1 52090 TERMINAL BLOCK, 3 POLE, W MARKING STRIP 10 1 65002 CONNECTOR, COPPER LUG 11 1 402099 HARNESS, LUGM AMP., CBS-20322e4/2ee 12 1 402099 HARNESS, LUGM AMP., CBS-2032e4/2ee 13 5 83026 WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE 14 13 84002 NUT, HA-40 KNURLE DTHUMB 15 1 51090 BOARD,SWITCHING/CONTROL, 100-120VAC (DUAL) 16 8 29007 NUT, #4-40 KNURLE DTHUMB 17 1 45098 OVERLAY CBS-2032ee, ECONOMIC 18 3 73029 LEG, THERMOPLASTIC, 2.50°(63mm) 19 1 57006 VALVE, S-53 T20VAC 20 1 24012 GASKET, S-53 FILL VALVE 21 1 31078 FIITI	4	1	22042	INSULATION TANK BACK CBS-2032e	
7 2 102363 ASSEMBLY, CASCADE SPRAY DOME, "EE" 8 8 83076 WASHER, #8 SCREW SIZE, CUSHION AND SEALING 9 1 52090 TERMINAL BLOCK, 3 POLE, W MARKING STRIP 10 1 65002 CONNECTOR, COPPER LUG 11 1 402097 HARNESS, LIOW AMP, CBS-20326e/42ee 12 1 402097 HARNESS, LIOW AMP, CBS-20326e/42ee 13 5 83026 WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE 14 13 84002 NUT, HEX, #8-32 MACHINE SCREW 15 15 1909 BOARD, SWITCHING(CONTROL, 10-120VAC (DUAL) 16 8 29007 NUT, #4-40 KNURLED THUMB 17 1 45098 OVERLAY CBS-2032ee, ECONOMIC 18 3 730229 LEG, THERMOPLASTIC, 2,50°(63mm) 19 1 57006 VALVE, S-53 120VAC 20 1 24012 GASKET, S-53 IILL VALVE 21 1 31078 FITTING, S-535 ILL VALVE INLET 22 1 30174 BRACKET, S-53	5	2	24101	O'RING, 3.739" ID X 0.070" CS, 70 DURO, BUNA "N", FDA	
8 8 83076 WASHER,#8 SCREW SIZE, CUSHION AND SEALING 9 1 52090 TERMINAL BLOCK, 3 POLE, W/ MARKING STRIP 10 1 65002 CONNECTOR, COPPER LUG 11 1 402099 HARNESS, LIGH AMP, CBS-2032ee/42ee 12 1 402097 HARNESS, LIGH AMP, CBS-2032ee/42ee 13 5 83026 WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE 14 13 84002 NUT, HEX, #8-32 MACHINE SCREW 15 1 51090 BOARD, SWITCHING/CONTROL, 100-120VAC (DUAL) 16 8 29007 NUT, #4-40 KNURLED THUMB 17 1 45088 OVERLAY CBS-2032ee, ECONOMIC 18 3 73029 LEG, THERMOPLASTIC, 2,507(63mm) 19 1 57006 VALVE, S-53 120VAC 20 1 24012 GASKET, S-53 FILL VALVE 21 1 31078 FITTING, S-53 FILL VALVE 22 1 03074 BRACKET, S-53 FILL VALVE 23 4 82020 SCREW, S-53 FILL VA	6	2	102357	ASSEMBLY, HOUSING SPRAY W/VALVE 120 VAC, CSD Ø 3.6" (SEE FIG. 10)	
9 1 52090 TERMINAL BLOCK, 3 POLE, W/ MARKING STRIP 10 1 65092 CONNECTOR, COPPER LUG 11 1 402096 HARNESS, LOW AMP, CBS-2032ee/42ee 12 1 402097 HARNESS, HIGH AMP, CBS-2032ee/42ee 13 5 83026 WASHER, INTERNAL TOOTH LOCK, #B SCREW SIZE 14 13 84002 NUT, HEX, #8-32 MACHINE SCREW 15 1 51990 BOARD, SWITCHING/CONTROL, 100-120/VAC (DUAL) 16 8 29007 NUT, #4-40 KNURLED THUMB 17 1 45098 OVERLAY OSS-2032ee, ECONOMIC 18 3 73029 LEG, THERMOPLASTIC, 2.50°(63mm) 19 1 57006 VALVE, S-53 120/VAC 20 1 24012 GASKET, S-53 FILL VALVE 21 1 31078 FITTING, S-535 FILL VALVE UNLET 22 1 1 30074 BRACKET, S-53 23 4 82020 SCREW, S-53 FILL VALVE UNLET 24 1 31031 FITTING, 90 MALE ELBOW, 3/8 TUBE OD X 3/8 MPT 25 1 86040 CONNECTOR, CABLE CLAMP, 3/4* 26 1 54026 PROBE, TEMPERATURE 5" LONG, 50k 27 1 K028 WATER LEVEL PROSE REPLACEMENT, CBS-2030'S 28 2 102195 ASSEMBLY, BUMPER, 2030e 29 1 25140 TUBE, 5/6*OD X 3/8*OD X AZESCE BREW 30 1 24102 MANIFOLD TEE, REDUCING, WATER DISTRIBUTION, SILICONE 31 86038 CLAMP, HOSE, 5/33*OD ARANGE 32 1 86038 CLAMP, HOSE, 6/70*-7.80* TOA RANGE 34 1 71023 FAUCET, DEPT ASSEMBLY, BUMPER, EDD SAFETY HANDLE 34 1 71021 FAUCET, COMPLETE, HOT WATER, RED SAFTEY HANDLE 35 1 86030 CLAMP, HOSE, 5/35*OD X 3/6*OD X 3/	7	2	102363	ASSEMBLY, CASCADE SPRAY DOME, "EE"	
10	8	8	83076	WASHER,#8 SCREW SIZE, CUSHION AND SEALING	
11	9	1	52090	TERMINAL BLOCK, 3 POLE, W/ MARKING STRIP	
12	10	1	65002	CONNECTOR, COPPER LUG	
13 5 83026 WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE 14 13 84002 NUT, HEX, #8-32 MACHINE SCREW 15 1 51090 BOARD,SWITCHING/CONTROL, 100-120VAC (DUAL) 16 8 29007 NUT, #4-40 KNURLED THUMB 17 1 45098 OVERLAY CBS-2032ee, ECONOMIC 18 3 73029 LEG, THERMOPLASTIC, 2,50°(63mm) 19 1 57006 VALVE, S-53 120VAC 20 1 24012 GASKET, S-53 FILL VALVE 21 1 31078 FITTING, 55-35 FILL VALVE 21 1 31078 FITTING, 95-53 FILL VALVE 22 1 03074 BRACKET, S-53 23 4 82020 SCREW, S-53 FILL VALVE 24 1 31031 FITTING, 90-MALE ELBOW, 3/8 TUBE OD X 3/8 MPT 25 1 86040 CONNECTOR, CABLE CLAMP, 3/4* 26 1 54026 PROBE, TEMPERATURE 5* LONG, 50K 27 1 KOZB WATER LEVEL PROBE REPLACEMENT, CBS-2030°S	11	1	402096		
13 5 83026 WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE 14 13 84002 NUT, HEX, #8-32 MACHINE SCREW 15 1 51090 BOARD,SWITCHING/CONTROL, 100-120VAC (DUAL) 16 8 29007 NUT, #4-40 KNURLED THUMB 17 1 45098 OVERLAY CBS-2032ee, ECONOMIC 18 3 73029 LEG, THERMOPLASTIC, 2,50°(63mm) 19 1 57006 VALVE, S-53 120VAC 20 1 24012 GASKET, S-53 FILL VALVE 21 1 31078 FITTING, 55-35 FILL VALVE 21 1 31078 FITTING, 95-53 FILL VALVE 22 1 03074 BRACKET, S-53 23 4 82020 SCREW, S-53 FILL VALVE 24 1 31031 FITTING, 90-MALE ELBOW, 3/8 TUBE OD X 3/8 MPT 25 1 86040 CONNECTOR, CABLE CLAMP, 3/4* 26 1 54026 PROBE, TEMPERATURE 5* LONG, 50K 27 1 KOZB WATER LEVEL PROBE REPLACEMENT, CBS-2030°S	12	1	402097	HARNESS, HIGH AMP, CBS-2032ee/42ee	
15	13	5	83026		
15		13	84002		
16		1	51090		
18		8	29007		
18		1	45098	· ·	
19		3			
20 1 24012 GASKET, S-53 FILL VALVE 21 1 31078 FITTING, S-53 FILL VALVE INLET 22 1 03074 BRACKET, S-53 23 4 82020 SCREW, S-53 FILL VALVE 24 1 31031 FITTING, 90 MALE ELBOW, 3/8 TUBE OD X 3/8 MPT 25 1 86040 CONNECTOR, CABLE CLAMP, 3/4" 26 1 54026 PROBE, TEMPERATURE 5" LONG, 50k 27 1 K028 WATER LEVEL PROBE REPLACEMENT, CBS-2030'S 28 2 102195 ASSEMBLY, BUMPER, 2030e 29 1 25140 TUBE, 58°0D X 3/8°1D X 4.25°1G BREW 30 1 24102 MANIFOLD TEE, REDUCING, WATER DISTRIBUTION, SILICONE 31 5 86007 CLAMP, HOSE, 593°656° DIA RANGE 32 1 86036 CLAMP, HOSE, 670°780° DIA RANGE 33 1 86016 WORM DRIVE CLAMP 7/16"- 25/32° 34 1 71021 FAUCET COMPLETE, HOT WATER, RED SAFTEY HANDLE 34 1 <t< td=""><td></td><td></td><td></td><td></td></t<>					
21 1 31078 FITTING, S-53 FILL VALVE INLET 22 1 03074 BRACKET, S-53 23 4 82020 SCREW, S-53 FILL VALVE 24 1 31031 FITTING, 90 MALE ELBOW, 3/8 TUBE OD X 3/8 MPT 25 1 86040 CONNECTOR, CABLE CLAMP, 3/4" 26 1 54026 PROBE, TEMPERATURE S" LONG, 50k 27 1 K028 WATER LEVEL PROBE REPLACEMENT, CBS-2030'S 28 2 102195 ASSEMBLY, BUMPER, 2030e 29 1 25140 TUBE, 5/8"OD X 3/8"ID X 4.25"LG BREW 30 1 24102 MANIFOLD TEE, REDUCING, WATER DISTRIBUTION, SILICONE 31 5 86038 CLAMP, HOSE, .593"656" DIA RANGE 32 1 86038 CLAMP, HOSE, .593"656" DIA RANGE 33 1 86016 WORM DRIVE CLAMP 7/16" - 25/32" 34 1 71021 FAUCET, COMPLETE, HOT WATER, RED SAFETY HANDLE 34 1 71023 FAUCET SEAT CUP, HOT WATER, RED SAFETY HANDLE					
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25 1 86040 CONNECTOR, CABLE CLAMP, 3/4" 26 1 54026 PROBE, TEMPERATURE 5" LONG, 50k 27 1 K028 WATER LEVEL, PROBE REPLACEMENT, CBS-2030'S 28 2 102195 ASSEMBLY, BUMPER, 2030e 29 1 25140 TUBE, 5/8"OD X 3/8"ID X 4.25"LG BREW 30 1 24102 MANIFOLD TEE, REDUCING, WATER DISTRIBUTION, SILICONE 31 5 86007 CLAMP, HOSE, .593"656" DIA RANGE 32 1 86038 CLAMP, HOSE, .570" DIA RANGE 33 1 86016 WORM DRIVE CLAMP 71/6" - 25/32" 34 1 71021 FAUCET, COMPLETE, HOT WATER, RED SAFTEY HANDLE 34 1 71023 FAUCET UPPER ASSY., HOT WATER, RED SAFTEY HANDLE 34 1 71023 FAUCET SEAT CUP, HOT WATER 35 1 31075 FITTING, 3/8"ID x 1/4" FPT 36 1 25139 TUBE, 5/8"OD X 3/6"ID X 15"LG DRAIN/FILL 37 1 86030 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL 38		1			
26 1 54026 PROBE, TEMPERATURE 5" LONG, 50k 27 1 K028 WATER LEVEL PROBE REPLACEMENT, CBS-2030'S 28 2 102195 ASSEMBLY, BUMPER, 2030e 29 1 25140 TUBE, 5/8"OD X 3/6"ID X 4.25"LG BREW 30 1 24102 MANIFOLD TEE, REDUCING, WATER DISTRIBUTION, SILICONE 31 5 86007 CLAMP, HOSE, 593"656" DIA RANGE 32 1 86038 CLAMP, HOSE, 597"780" DIA RANGE 33 1 86016 WORM DRIVE CLAMP 7/16" - 25/32" 34 1 71021 FAUCET, COMPLETE, HOT WATER, RED SAFETY HANDLE 34 1 71023 FAUCET UPPER ASSY., HOT WATER, RED SAFTEY HANDLE 35 1 31075 FITTING, 3/8'ID x 1/4" FPT 36 1 25139 TUBE, 5/8"OD X 3/8"ID X 15"LG DRAIN/FILL 37 1 86030 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL 38 2 25137 TUBE, 5/16"OD X 3/16"ID X 11"LG VENT 39 1 44004 LABEL, WARNING-HIGH VOLTAGE <td< td=""><td></td><td></td><td></td><td></td></td<>					
27 1 K028 WATER LEVEL PROBE REPLACEMENT, CBS-2030'S 28 2 102195 ASSEMBLY, BUMPER, 2030e 29 1 25140 TUBE, 5/8"OD X 3/8"ID X 4.25"LG BREW 30 1 24102 MANIFOLD TEE, REDUCING, WATER DISTRIBUTION, SILICONE 31 5 86007 CLAMP, HOSE, .593".656" DIA RANGE 32 1 86038 CLAMP, HOSE, .670".780" DIA RANGE 33 1 86016 WORM DRIVE CLAMP 7/16" - 25/32" 34 1 71023 FAUCET, COMPLETE, HOT WATER, RED SAFETY HANDLE 34 1 71023 FAUCET UPPER ASSY., HOT WATER, RED SAFTEY HANDLE 34 1 71003 FAUCET SEAT CUP, HOT WATER 35 1 31075 FITTING, 3/8"ID x 1/4" FPT 36 1 25139 TUBE, 5/8"OD X 3/8"ID X 15"LG DRAIN/FILL 37 1 86030 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL 38 2 25137 TUBE, 5/16"OD X 3/16"ID X 11"LG VENT 39 1 44004 LABEL, WARNING-HIGH VOLTAGE 41 </td <td></td> <td></td> <td></td> <td></td>					
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29 1 25140 TUBE, 5/8"OD X 3/8"ID X 4.25"LG BREW 30 1 24102 MANIFOLD TEE, REDUCING, WATER DISTRIBUTION, SILICONE 31 5 86007 CLAMP, HOSE, .593"656" DIA RANGE 32 1 86038 CLAMP, HOSE, .670"780" DIA RANGE 33 1 86016 WORM DRIVE CLAMP 7/16" - 25/32" 34 1 71021 FAUCET, COMPLETE, HOT WATER, RED SAFETY HANDLE 34 1 71023 FAUCET UPPER ASSY., HOT WATER, RED SAFTEY HANDLE 34 1 71003 FAUCET SEAT CUP, HOT WATER 35 1 31075 FITTING, 3/8"ID x 1/4" FPT 36 1 25139 TUBE, 5/8"OD X 3/8"ID X 15"LG DRAIN/FILL 37 1 86030 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL 38 2 25137 TUBE, 5/16"OD X 3/16"ID X 11"LG VENT 39 1 44004 LABEL GROUND 40 2 44024 LABEL, WARNING-HIGH VOLTAGE 41 1 401348 WIRING DIAGRAM, CBS-2032ee/42ee 42 10					
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31 5 86007 CLAMP, HOSE, .593"656" DIA RANGE 32 1 86038 CLAMP, HOSE, .670"780" DIA RANGE 33 1 86016 WORM DRIVE CLAMP 7/16" - 25/32" 34 1 71021 FAUCET, COMPLETE, HOT WATER, RED SAFTEY HANDLE 34 1 71023 FAUCET UPPER ASSY., HOT WATER, RED SAFTEY HANDLE 34 1 71003 FAUCET SEAT CUP, HOT WATER 35 1 31075 FITTING, 3/8'ID x 1/4" FPT 36 1 25139 TUBE, 5/8"OD X 3/8"ID X 15"LG DRAIN/FILL 37 1 86030 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL 38 2 25137 TUBE, 5/16"OD X 3/16"ID X 11"LG VENT 39 1 44004 LABEL GROUND 40 2 44024 LABEL, WARNING-HIGH VOLTAGE 41 1 401348 WIRING DIAGRAM, CBS-2032e/42ee 42 10 84050 NUT, CLIP ON (J-NUT), #6-32, 22 - 20 GA., BLACK-PHOSPHATE FINISH 43 1 01479 COVER, UPPER BASE CBS-2032e 45 <td< td=""><td></td><td></td><td></td><td></td></td<>					
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49 1 41016 LABEL, EXTRACTOR 51 2 101266 ASSEMBLY, BREW BASKET, 13 X 5, DIA HOLE 0.218", 0.25" FLG (SEE FIG. 9)					
51 2 101266 ASSEMBLY, BREW BASKET, 13 X 5, DIA HOLE 0.218", 0.25" FLG (SEE FIG. 9)					
	52	1	44050	LABEL, WARNING, "HOT WATER FAUCET"	

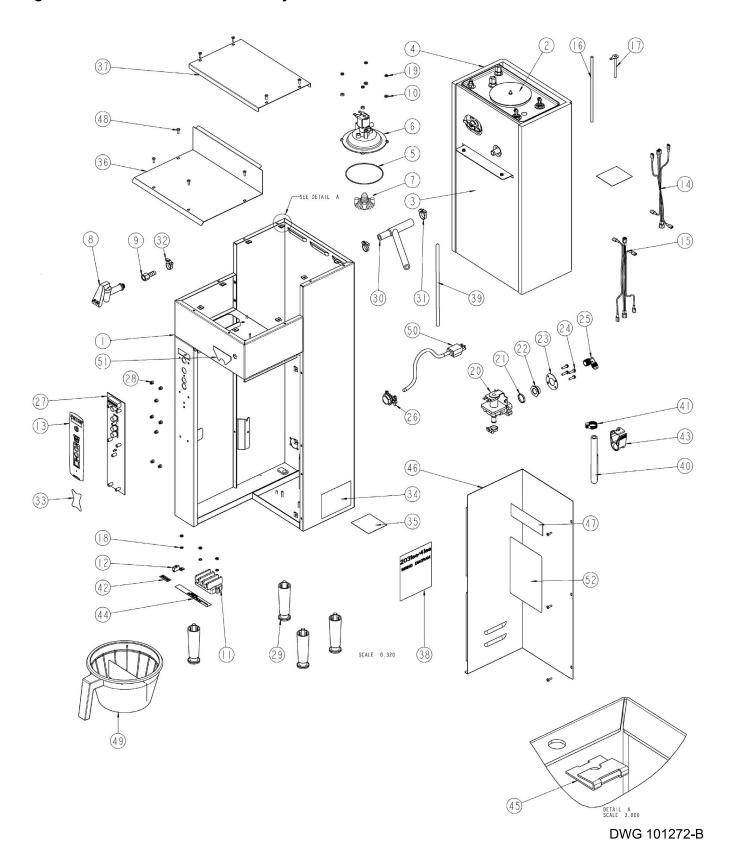
Figure 4 – CBS-2032ee Tank Assembly, Part # 104095



DWG 104095-A

ITEM#	QTY	PART#	DESCRIPTION
1	1	004089	WELDMENT TANK CBS-2032ee, O-RING FITTINGS
2	2	03297	SINK, HEAT FOR 40A TRIAC
3	2	59008	TRIAC 40A, 600V
4	1	13139	FITTING 3/8" HOSE ID WATER INLET/DRAIN
5	2	24099	O-RING, 1/2 X 11/16, 3/32 WIDTH
6	2	13134	NUT FOR 3/8 HOSE ID FITTING
7	1	13138	FITTING 3/8" HOSE ID
8	1	13137	FITTING 1/2" HOSE ID
9	1	24098	O-RING 9/16 X 3/4, 3/32 WIDTH
10	1	13135	NUT FOR 1/2 HOSE ID FITTING
11	4	83084	WASHER .875"OD X .536"ID, FLA, 22 GA
12	2	25098	FITTING, COMPRESSION MALE CONNECTOR
13	2	25128	FITTING, 90 DEG. ELBOW, 1/4 NPT X 5/16 BARB, KYNAR
14	4	23249	LOCKNUT 1/4"-18 NPT MODIFIED THREAD
15	1	03332	BRACKET 2, ONE SHOT THERMOSTAT
16	1	53088	THERMOSTAT, SINGLE SHOT, 240V/40A
17	2	107021	ASSEMBLY IMMERSION HEATER 3000W/240VAC
18	1	24002	O-RING, TANK COVER
19	1	102013	ASSEMBLY, TANK COVER
20	6	83011	WASHER, #6 SCREW SIZE, INTERNAL
21	6	84045	NUT, HEX 6-32, UNDERSIZED

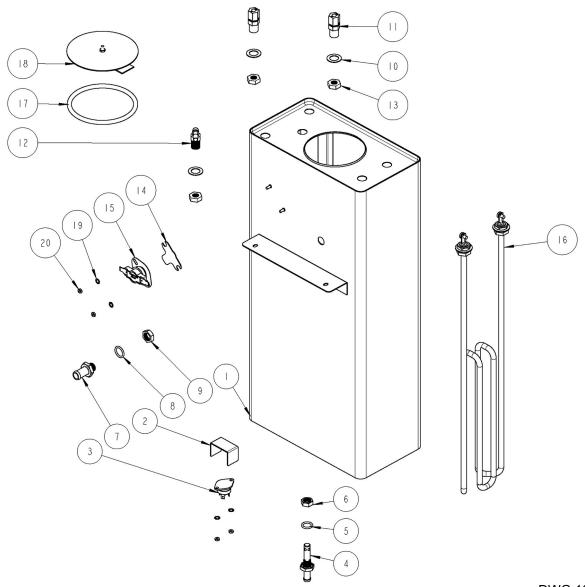
Figure 5 – CBS-2041ee Main Assembly



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1	ITEM#	QTY	PART#	DESCRIPTION	
1	1	1	001087	WELDMENT CBS-2041ee	
4	2	1	104097	ASSEMBLY TANK CBS-2041ee, O-RING FITTINGS (SEE FIG. 6)	
5 1 24101 O'RING, 3/39" ID X 0,070" CS, 70 DURO, BURA "N", FDA 6 1 102363 ASSEMBLY, HOUSING SPRAY WINAUK 12 120 VAG, CSD Ø 3,6" (SEE FIG. 10) 7 1 102363 ASSEMBLY, CASCADE SPRAY DOME, "EF" 8 1 71023 FAUCET, COMPLETE, HOT WATER RED SAFETY HANDLE 8 1 71023 FAUCET SEAT CUP, HOT WATER 9 1 31075 FHITTING, 378 ID X 14" FPT 10 4 83076 WASHER, #8 SCREW SIZE, CUSHION AND SEALING 11 1 52090 TERMINAL BLOCK, 3 POLE, W MARKING STRIP 12 1 65002 CONNECTOR, COPPER LUG 13 1 45099 OVERLAY, CBS-2041EE 14 1 402094 HARNESS, LOW AMP, CBS-2031ee/41ee 15 1 402029 HARNESS, LOW AMP, CBS-2031ee/41ee 16 1 54022 PROBE, TEMPERATURE 8" LONG, 50k 17 1 K029 WATER LEVEL PROBE REPLACEMENT, CBS-2040'S/50'S 18 5 83026 WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE <t< td=""><td>3</td><td>1</td><td>22128</td><td>INSULATION TANK FRONT CBS-2041ee</td></t<>	3	1	22128	INSULATION TANK FRONT CBS-2041ee	
6 1 102357 ASSEMBLY, HOUSING SPRAY WINALVE 120 VAC, CSD Ø 3.6" (SEE FIG. 10) 7 1 102363 ASSEMBLY, CASCADE SPRAY DOME. *TE" 8 1 71021 FAUCET. COMPLETE, HOT WATER, RED SAFETY HANDLE 8 1 71003 FAUCET SEAT CUP, HOT WATER, RED SAFETY HANDLE 9 1 31075 FITTING, 3/810 x 1/4" FPT 10 4 83076 WASHER,#8 SCREW SIZE, CUSHION AND SEALING 11 1 52090 TERMINAL BLOCK, 3 POLE, W/ MARKING STRIP 12 1 65002 CONNECTOR, COPPER LUG 13 1 45099 OVERLAY, CBS-2041EE 14 1 402094 HARNESS, LOW AMP, CBS-2031ee/41ee 15 1 402095 HARNESS, LOW AMP, CBS-2031ee/41ee 16 1 54022 PROBE, TEMPERATURE 8* LONG, 50% 17 1 K029 WATER LEVEL PROBE REPLACEMENT, CBS-2040'S/50'S 18 5 83028 WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE 20 1 57006 VALVE, S-53 120VAC 21 1 24012 GASKET, S-55 FILL VALVE 22 1 31078 FITTING, S-53 FILL VALVE 22 1 31078 FITTING, S-53 FILL VALVE 25 1 31031 FITTING, 90 MALE BLOW, 3/8 TUBE OD X 3/8 MPT 26 1 86040 CONNECTOR, CABELE BLOW, 3/8 TUBE OD X 3/8 MPT 27 1 51089 BOARD, SWITCHING, 90 MATER BLOWN, SITTING, 90 MALE BLOWN, 3/8 TUBE OD X 3/8 MPT 26 1 86040 CONNECTOR, CABELE BLOWN, 3/8 TUBE OD X 3/8 MPT 27 1 51089 BOARD, SWITCHING, 90 MALE BLOWN, 3/8 TUBE OD X 3/8 MPT 27 1 51089 BOARD, SWITCHING, 90 MALE BLOWN, 3/8 TUBE OD X 3/8 MPT 28 8 29007 NUT, #4-40 KNURLED THUMB 30 1 24102 MANIFOLD THUMB 31 1 86038 CLAMP, HOSE, 6370*-780* DIA RANGE 32 4 4404 LABEL, EXTRACTOR 33 1 41016 LABEL, EXTRACTOR 34 1 40104 LABEL, EXTRACTOR 35 1 40040 LABEL, EXTRACTOR 36 1 401347 WIRNING LABEL, EXTRACTOR 37 1 101906 COVER BASE UPPER CBS-2041 37 1 101906 COVER BASE UPPER CBS-2041 37 1 101906 COVER BASE UPPER CBS-2041 38 1 40104 LABEL, EXTRACTOR 39 1 25137 TUBE, 5/16**OD X 3/16**DD X 11**CB PCHINFILL 41 1 40040 LABEL, EXTRACTOR TUBE COVER BASE UPPER CBS-2041 41 1 1 80016 WORM DRIVE CLAMP 7/16* - 25/32" 41 1 40040 LABEL, EXTRACTOR TUBE COVER BASE UPPER CBS-2041 41 1 1 1 80016 WORM DRIVE CLAMP 7/16* - 25/32" 41 1 40040 LABEL, EXTRACTOR TUBE COVER BASE UPPER CO	4	1	22065	INSULATION TANK BACK CBS-2041e	
1	5	1	24101	O'RING, 3.739" ID X 0.070" CS, 70 DURO, BUNA "N", FDA	
8 1 71021 FAUCET, COMPLETE, HOT WATER, RED SAFETY HANDLE 8 1 71023 FAUCET SEAT CUP, HOT WATER 8 1 71003 FAUCET SEAT CUP, HOT WATER 9 1 31075 FITTING, 36/80 x 14* FPT 10 4 83076 WASHER,#B SCREW SIZE, CUSHION AND SEALING 11 1 52090 CONNECTOR, COPPER LUG 12 1 65002 CONNECTOR, COPPER LUG 13 1 45099 OVERLAY, CBS-2041EE 14 1 402094 HARNESS, LOW AMP, CBS-2031ee/41ee 15 1 402095 HARNESS, LIGH AMP, CBS-2031ee/41ee 16 1 54022 PROBE, TEMPERATURE 8* LONG, 50k 17 1 K029 WATER LEVEL PROBE REPLACEMENT, CBS-2040'S/50'S 18 5 83028 WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE 20 1 57006 VALVE, S-53 120VAG 21 1 24012 GASKET, S-55 IIL VALVE 22 1 31078 FITTING, S-55 IIL VALVE INLET	6	1	102357	ASSEMBLY, HOUSING SPRAY W/VALVE 120 VAC, CSD Ø 3.6" (SEE FIG. 10)	
8 1 71023 FAUCET SEAT CUP. HOT WATER. 8 1 7103 FAUCET SEAT CUP. HOT WATER 9 1 31075 FITTING, 3/8/10 x 1/4" FPT 10 4 83076 WASHER #8 SCREW SIZE, CUSHION AND SEALING 11 1 52090 TERMINAB BLOCK, 3 POLE, W MARKING STRIP 12 1 65002 CONNECTOR, COPPER LUG 13 1 45099 OVERLAY, CBS-2041EE 14 1 402094 HARNESS, LICH AMP, CBS-2031ee/41ee 15 1 402095 HARNESS, HIGH AMP, CBS-2031ee/41ee 16 1 54022 PROBE, TEMPERATURE 8" LONG, 50k 17 1 K029 WATER LEVEL PROBE REPLACEMENT, CBS-2040'S/50'S 18 5 83028 WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE 19 9 84002 NUT, HEX, #8-32 MACHINE SCREW 20 1 57006 VALVE, S-53 12U VALVE 21 1 24012 GASKET, S-53 FILL VALVE 22 1 31037 FITTING, S-53 FILL V	7	1	102363		
8 1 71003 FAUCET SEAT CUP, HOT WATER 9 1 31075 FITTING, 3/8/10 x 1/4* FPT 10 4 83076 WASHER,#8 SCREW SIZE, CUSHION AND SEALING 11 1 52090 TERMINAL BLOCK, 3 POLE, W MARKING STRIP 12 1 65002 CONNECTOR, COPPER LUG 13 1 45099 OVERLAY, CBS-2041EE 14 1 402094 HARNESS, LUW AMP, CBS-2031ee/41ee 15 1 402094 HARNESS, LUW AMP, CBS-2031ee/41ee 16 1 54022 PROBE, TEMPERATURE 8* LONG, 50k 17 1 K029 WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE 18 5 83026 WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE 20 1 57006 VALVE, S-53 120VAC 21 1 24012 GASKET, S-53 FILL VALVE 22 1 31078 FITTING, S-53 FILL VALVE INLET 23 1 03074 BRACKET, S-53 FILL VALVE 24 4 82020 SCREW, S-53 FILL VALVE	8	1	71021	FAUCET, COMPLETE, HOT WATER, RED SAFETY HANDLE	
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12	10	4	83076	WASHER,#8 SCREW SIZE, CUSHION AND SEALING	
13	11	1	52090	TERMINAL BLOCK, 3 POLE, W/ MARKING STRIP	
14	12	1	65002	CONNECTOR, COPPER LUG	
14		1	45099		
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16	15	1	402095	HARNESS, HIGH AMP, CBS-2031ee/41ee	
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51 1 44050 LABEL, WARNING, "HOT WATER FAUCET"					
	52	1	46068	LABEL, CONTROL PANEL, CBS2030/40ee	

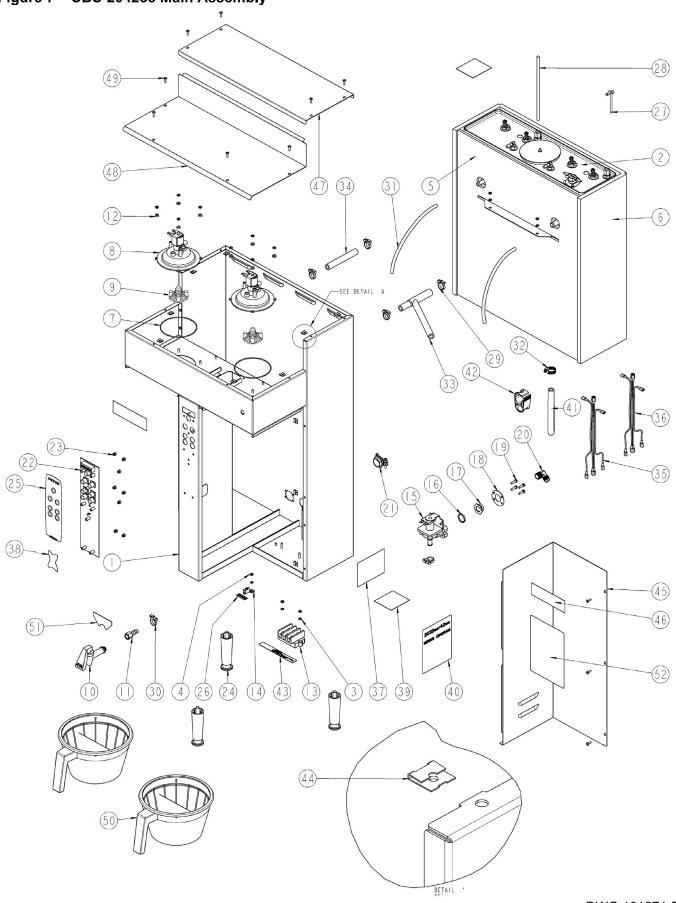
Figure 6 – CBS-2041ee Tank Assembly, Part # 104097



DWG 104097-A

			5110
ITEM#	QTY	PART#	DESCRIPTION
1	1	004091	WELDMENT TANK CBS-2041ee, O-RING FITTINGS
2	1	03297	SINK, HEAT FOR 40A TRIAC
3	1	59008	TRIAC 40A, 600V
4	1	13139	FITTING 3/8" HOSE ID WATER INLET/DRAIN
5	1	24099	O-RING, 1/2 X 11/16, 3/32 WIDTH
6	1	13134	NUT FOR 3/8 HOSE ID FITTING
7	1	13137	FITTING 1/2" HOSE ID
8	1	24098	O-RING 9/16 X 3/4, 3/32 WIDTH
9	1	13135	NUT FOR 1/2 HOSE ID FITTING
10	3	83084	WASHER .875"OD X .536"ID, FLA, 22 GA
11	2	25098	FITTING, COMPRESSION MALE CONNECTOR
12	1	25128	FITTING, 90 DEG. ELBOW, 1/4 NPT X 5/16 BARB, KYNAR
13	3	23249	LOCKNUT 1/4"-18 NPT MODIFIED THREAD
14	1	03332	BRACKET 2, ONE SHOT THERMOSTAT
15	1	53071	THERMOSTAT, SINGLE SHOT, 25A
16	1	107024	ASSEMBLY,IMMERSION HEATER,2300W, 120VAC
17	1	24002	O-RING, TANK COVER
18	1	102013	ASSEMBLY, TANK COVER
19	4	83011	WASHER, #6 SCREW SIZE, INTERNAL
20	4	84045	NUT, HEX 6-32, UNDERSIZED

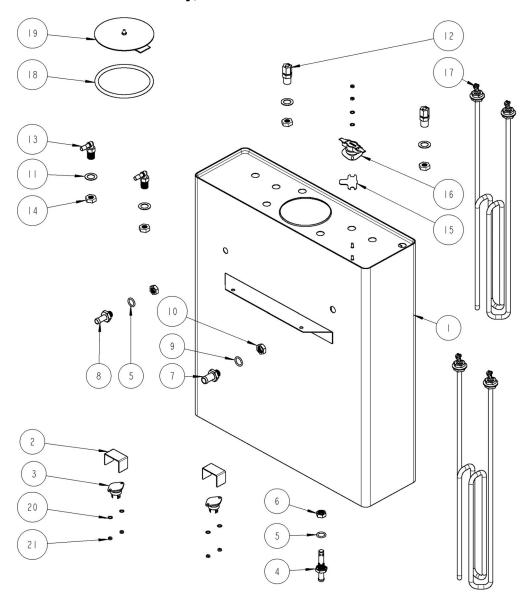
Figure 7 - CBS-2042ee Main Assembly



DWG 101271-B

ITEM#	QTY	PART #	DESCRIPTION	
1	1	001085	WELDMENT CBS-2042ee	
2	1	104096	ASSEMBLY TANK, CBS-2042ee (SEE FIG. 8)	
3	5	83026	WASHER, INTERNAL TOOTH LOCK, #8 SCREW SIZE	
4	13	84002	NUT, HEX, #8-32 MACHINE SCREW	
5	1	22127	INSULATION, TANK FRONT, CBS-2042ee,	
6	1	22067	INSULATION, TANK BACK CBS-2042e	
7	2	24101	O'RING, 3.739" ID X 0.070" CS, 70 DURO, BUNA "N", FDA	
8	2	102357	ASSEMBLY, HOUSING SPRAY W/VALVE 120 VAC, CSD Ø 3.6" (SEE FIG. 10)	
9	2	102363	ASSEMBLY, CASCADE SPRAY DOME, "EE"	
10	1	71021	FAUCET, COMPLETE, HOT WATER, RED SAFETY HANDLE	
10	1	71023	FAUCET UPPER ASSY., HOT WATER, RED SAFTEY HANDLE	
10	1	71003	FAUCET SEAT CUP, HOT WATER	
11	1	31075	FITTING, 3/8'ID x 1/4" FPT	
12	8	83076	WASHER,#8 SCREW SIZE, CUSHION AND SEALING	
13	1	52090	TERMINAL BLOCK, 3 POLE, W/ MARKING STRIP	
14	1	65002	CONNECTOR, COPPER LUG	
15	1	57006	VALVE, S-53 120VAC	
16	1	24012	GASKET, S-53 FILL VALVE	
17	1	31078	FITTING, S-53 FILL VALVE INLET	
18	1	03074	BRACKET, S-53	
19	4	82020	SCREW, S-53 FILL VALVE	
20	1	31031	FITTING, 90 MALE ELBOW, 3/8 TUBE OD X 3/8 MPT	
21	1	86040	CONNECTOR, CABLE CLAMP, 3/4"	
22	1	51090	BOARD.SWITCHING/CONTROL, 100-120VAC (DUAL)	
		29007	NUT, #4-40 KNURLED THUMB	
23 24	8			
24 25		1073.00002.00 45100	LEG, FLANGE FOOT, 4" HIGH OVERLAY CBS-2042ee	
	1			
26	1	44004	LABEL GROUND WATER LEVEL PROBE REPLACEMENT, CBS-2040'S/50'S	
27	1	K029		
28	1	54022	PROBE, TEMPERATURE 8" LONG, 50k	
29	1	86038	CLAMP, HOSE, .670"780" DIA RANGE	
30	5	86007	CLAMP, HOSE, .593"656" DIA RANGE	
31	2	25137	TUBE, 5/16"OD X 3/16"ID X 11"LG VENT	
32	1	86016	WORM DRIVE CLAMP 7/16" - 25/32"	
33	1	24102	MANIFOLD TEE, REDUCING, WATER DISTRIBUTION, SILICONE	
34	1	25140	TUBE, 5/8"OD X 3/8"ID X 4.25"LG BREW	
35	1	402096	HARNESS, LOW AMP, CBS-2032ee/42ee	
36	1	402097	HARNESS, HIGH AMP, CBS-2032ee/42ee	
38	1	41016	LABEL, EXTRACTOR	
39	2	44024	LABEL, WARNING-HIGH VOLTAGE	
40	1	401348	WIRING DIAGRAM, CBS-2032ee/42ee	
41	1	25139	TUBE, 5/8"OD X 3/8"ID X 15"LG DRAIN/FILL	
42	1	86030	CLAMP, 3/4" MAX TUBE OD FLOW CONTROL	
43	1	44048	WARNING LABEL	
44	11	84050	NUT, CLIP ON (J-NUT), #6-32, 22 - 20 GA., BLACK-PHOSPHATE FINISH	
45	1	02159	WELDMENT COVER RIGHT CBS-2040e'S	
46	2	46027	LABEL, SPRAY HOUSING	
47	1	01479	COVER, TOP CBS-2032 & 42	
48	1	01522	COVER, UPPER BASE CBS-2042	
49	11	82053	SCREW, # 6-32 X 1/2" TRUSS HD PH	
50	2	101266	ASSEMBLY, BREW BASKET, 13 X 5, DIA HOLE 0.218", 0.25" FLG (SEE FIG. 9)	
51	1	44050	LABEL, WARNING, "HOT WATER FAUCET"	
52	1	46068	LABEL, CONTROL PANEL, CBS2030/40ee	

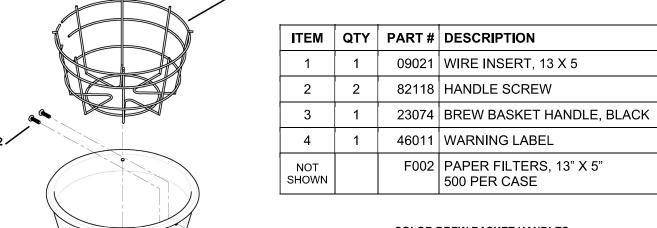
Figure 8 – CBS-2042ee Tank Assembly, Part # 104096



DWG 104096-A

ITEM#	QTY	PART#	DESCRIPTION
1	1	004090	WELDMENT TANK CBS-2042ee, O-RING FITTINGS
2	2	03297	SINK, HEAT FOR 40A TRIAC
3	2	59008	TRIAC 40A, 600V
4	1	13139	FITTING 3/8" HOSE ID WATER INLET/DRAIN
5	2	24099	O-RING, 1/2 X 11/16, 3/32 WIDTH
6	2	13134	NUT FOR 3/8 HOSE ID FITTING
7	1	13137	FITTING 1/2" HOSE ID
8	1	13138	FITTING 3/8" HOSE ID
9	1	24098	O-RING 9/16 X 3/4, 3/32 WIDTH
10	1	13135	NUT FOR 1/2 HOSE ID FITTING
11	4	83084	WASHER .875"OD X .536"ID, FLA, 22 GA
12	2	25098	FITTING, COMPRESSION MALE CONNECTOR
13	2	25128	FITTING, 90 DEG. ELBOW, 1/4 NPT X 5/16 BARB, KYNAR
14	4	23249	LOCKNUT 1/4"-18 NPT MODIFIED THREAD
15	1	03332	BRACKET 2, ONE SHOT THERMOSTAT
16	1	53088	THERMOSTAT, SINGLE SHOT, 240V/40A
17	2	107002	ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC
18	1	24002	O-RING, TANK COVER
19	1	102013	ASSEMBLY, TANK COVER
20	6	83011	WASHER, #6 SCREW SIZE, INTERNAL
21	6	84045	NUT, HEX 6-32, UNDERSIZED

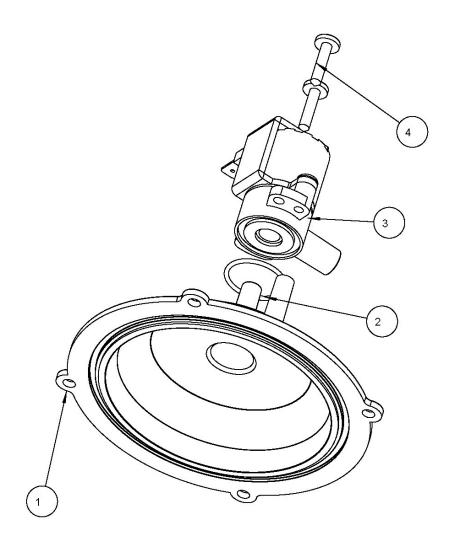
Figure 9 – Brew Basket Assembly, 13" X 5", Part # 101266



COLOR BREW BASKET HANDLES

OCEON BREW BACKET HANDLES					
PART#	DESCRIPTION				
23169	BREW BASKET HANDLE, RED				
23171	BREW BASKET HANDLE, GREEN				

Figure 10 – ASSEMBLY, HOUSING SPRAY W/VALVE 120 VAC, CSD Ø 3.6", Part # 102357



ITEM	QTY	PART#	DESCRIPTION
1	1	102378	ASSEMBLY, HOUSING SPRAY, W/MAGNETS, CSD, DIA 3.6"
2	1	24075	O RING, .801 ID X 1/16 CROSS SEC
3	1	102214	ASSEMBLY, DISPENSE VALVE, RPE, 120V/60Hz
4	2	82104	SCREW, PAN HD #7 x 3/4 LG, SHEET METAL