

# **FETCO** User's Guide and Operator Instructions

# FETCO Coffee Brewer: CBS-2111XTS Extractor Touch Screen Models





 $C \in (NSE)$ 

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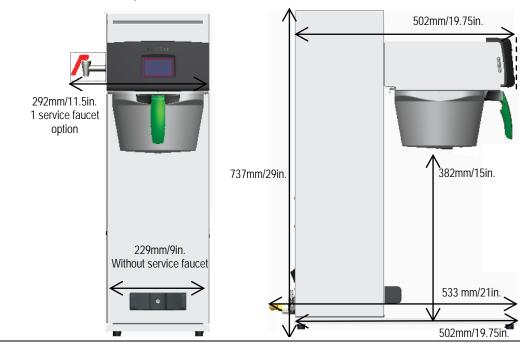


**MARCH 2018** 

#### Specifications and Requirements FETCO CBS-2111 Coffee Brewer with bypass (hot water bypass)

CBS-2111-Capacities & Measurements										
Brewer	Height	<b>Width</b> No hot water faucet	Width One hot water faucet	<b>Width</b> Two hot water faucets	Depth	Empty Weight	Filled Weight	Hot Water Tank Capacity		
CBS-2111	737 mm 29 inch	229 mm 9 inch	292 mm 11.5 inch	356 mm 14 inch	533 mm 21 inch	14.4kg 32 lb	48.3kg 106.5 lb	11.9 liter 3.1 gallon		

### **CBS-2111-Dimensions & Utility Connections**



CBS-2111-Electrical Configurations								
Configuration Code	Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Amp Draw	
T211191	1 X 3KW	200-240	single	2+G	cord and plug	3.1	10.8-12.9	
Please see wiring diagrams located in back pages for installation notes.								

#### **CBS-2111-Water Requirements**

Water Connection: Inlet: 3/8 inch male flare fitting

Mains Pressure: 0.31-0.517 mPa 0.34MPa/50PSI preferred (45-75 psig).

Minimum Flow Rate: 5.7 liter/minute (1½ gpm).

All commercial hot water dispensers to be supplied with filtered water from mains

#### The following are the factory settings—and ranges of variables that are adjustable:

Brew volume: 6 liter Batch: (default all recipes: 4 liters brew+2 liters bypass)

RANGE [0.50-6.00 liter BREW] [0-4.00 liter BYPASS]

**Total Brew Cycle—Factory setting: 9:30 minutes** [6 minute brew time+1.5 minute drip delay+2minute bypass] RANGE [1:00-12:00 minute BREW] [0:30-12:00 minute BYPASS DELAY]

Temperature Control—as set by factory: 90°C inside hot water tank (at sea level).

- -RANGE User selectable: 80-97°C/176°-207°F
- -Brew Temperature may be individually set for each of the eight recipes.

Coffee Filter Size: 15" X 5 1/2 "- standard FETCO # F001

## **Description & Features**

### Description

- -The CBS-2111 Coffee brewer with hot water bypass has user interactive touch screen display & control.
- -Batch size is preset to brew 6.0 liter/1.6 gallon with a ratio of 4 liter brew to 2 liter hot water bypass.
- All eight batch sizes, brew to bypass ratios, and temperatures are programmable to any customer preference

#### **Features**

- -Low profile
- -High-Volume Coffee brewer with hot water bypass feature
- -Eight programmable recipes: Factory set with two user adjustable permanent recipes
- -Six additional recipes may be optionally programmed or hidden
- -Individual recipe temperatures can be set by use
- -Hot water tank recovers rapidly and may be quickly lowered for specialty recipe temperature with "PURGE" function

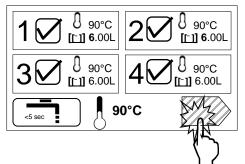
## The following can be accessed and programmed:

- -BATCH SIZE & BYPASS [Hot Water Bypass] Infinitely variable-factory set at 4.0 liter brew/2.00 liter hot water bypass.
- -BREW TEMPERAURE
- -PURGE TO LOWER BREW TEMPERATURE: OPTIONAL SELECTION! Operator may use PURGE touch key. Holding the key for the maximum five seconds releases 150 cc/4 fl.oz hot tank water to reduce brew temperature.
- -PULSE BREW: Using information entered, the software calculates how much water to dispense for brew and for hot water "BYPASS". The total dispense time is divided into on/off cycles that dispenses the correct amount of water and pauses to drain the brew basket. Pulse brew can be set by the operator. Factory set is four on/off fill/drain cycles. Controls automatically cycle valves to dispense the correct amount of water set in the recipe.
- -RECIPES are all adjustable. Recipes 1&5 are permanent; recipes 2, 3, 4, 6, 7, 8 can be programmed or hidden. See pages 6-13 for programming, adjustments and calibration.

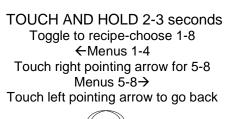
Brewer not ready for this recipe (may be overridden)  Hot water tank - filled  Hot water tank - filling/refilling  Heating/ At Temperature  Toggle from menu screen 1-4 to 5-8  Temperature icon  When blinking: Hot water tank temperature over setting. Purge to reduce water temperature  Press purge key to reduce water temperature  FETCO  Temperature icon  Waiting Hot water bypass ready to start- paused (delay)  Drip-out  Hot Water bypass "ON"  Fers purge key to reduce water temperature  FETCO  Toggle from menu screen 1-4 to 5-8  SEXTRACTOR  Wenu 1 of 8  Menu 2 of Extractor  Menu 2 of Extractor  Menu 4 of Menu	ICON Definition Table							
Brewer not ready for this recipe (may be overridden)  Hot water tank - filled  Hot water tank - filling/refilling  Heating/ At Temperature  Toggle from menu screen 1-4 to 5-8  Temperature icon  When blinking: Hot water tank temperature over setting. Purge to reduce water temperature  Press purge key to reduce water temperature  FETCO  Temperature icon  When blinking: Hot water tank temperature over setting. Purge to reduce water temperature  Press purge key to reduce water temperature  FETCO  Toggle from menu screen 1-4 to 5-8  FETCO	ICON	Definition	ICON	De	finition	ICON	Definition	
for this recipe (may be overridden)  Hot water tank - filled  Hot water tank - filling/refilling  Heating/ At Temperature  Toggle from menu screen 1-4 to 5-8  Wenu 1 of 8  EXTRACTOR  Batch Size  Bat		Ready to brew		Brew time			Brew valve cyle is "open", and is cascading water.	
Temperature icon  Hot water tank - filled  Hot water tank - filling/refilling  Hot water tank - to start- paused (delay)  When blinking: Hot water tank temperature over setting.  Purge to reduce water temperature  Press purge key to reduce water temperature  Toggle from menu screen 1-4 to 5-8  Press purge key to reduce water temperature  FETCO  ABRIEVATOR  Wenu 1 of 8  Wenu 1 of 8  Wenu 1 of 8  Wenu 3 of 8  ABRIEVATOR  Wenu 3 of 8  Wenu 3 of 8  ABRIEVATOR  Wenu 4 of Wenu 4		for this recipe	[[_]]	Batch S	ize			
Hot water tank temperature over setting. Purge to reduce water temperature  Toggle from menu screen 1-4 to 5-8  Press purge key to reduce water temperature  Toggle from menu screen 1-4 to 5-8  FETCO  And Temperature  Hot water tank temperature over setting. Purge to reduce water temperature  Fress purge key to reduce water temperature  Wenu 1 of 8  FETCO  Menu 1 of 8  FETCO  Menu 2 of  FETCO  Menu 3 of 8  Menu 3 of 8  Menu 3 of 8  Menu 3 of 8  Menu 4 of  Menu 4 of			8	Temper	ature icon	_	Hot water bypass ready	
Heating/ At Temperature  Purge to reduce water temperature  Press purge key to reduce water temperature  Press purge key to reduce water temperature  STOP  STOP  Wenu 1 of 8  Wenu 1 of 8  Wenu 3 of 8  ALL Water bypass "ON"  Wenu 2 of FETCO  Wenu 3 of 8  ALL Water bypass "ON"  Wenu 2 of FETCO  Wenu 3 of 8  ALL Water bypass "ON"  Wenu 4 of FETCO  Wenu 3 of 8  ALL Water bypass "ON"			<u>"</u> "			ل_ ا	Drip-out	
to reduce water temperature    STOP			//   "\"	Purge to		-	Hot Water bypass "ON"	
**READY"  **READY"  Menu 3 of 8  **Diewer 15  **READY"  Menu 3 of 8  **Diewer 15  **Menu 3 of 8  **Diewer 15  **Menu 4 of 8  **Diewer 15  **Menu 3 of 8  **Diewer 15  **Menu 4 of 8  **Diewer 15  **Diewer 15  **Menu 4 of 8  **Diewer 15  **Diewer 15  **Menu 4 of 8  **Diewer 15  **Diewer	Or		<5 Sec	to redu	ce water	STOP	"STOP"	
TBS 2111 90°C is heated and full Purge Key Continue to	XTS EXTRACTOR TOUCHSCREEN TBS_2111 © 2016 all rights reserved  7 90°C		#READY"  #READY"  Menu 3 of 8  ←Hot water tank is heated and full ←Hot water tank  →  Purge Key  →		[L] 6.00L	[1] 6.00L ← Menu 4 of 8 ← Continue to Menus 5-8		
FETCO CBS-2111 home screen FETCO CBS-2111 recipe screen	FETCO CBS-2	2111 home screen				FETCO CBS-2111	recipe screen	

## **Operational Description**

# Basic Screens: Recipes, Brew, Starting Menus and General Brewing Sequence 8 DEFAULT RECIPE SCREENS - Toggle button between screens to access recipes 1-4 and 5-8



Touch Menu ICON #1 to START BREW Touch for 2-3 seconds to begin brew. Have container under brew funnel



90°C

90°C

90°C

[[-]] 6.00L

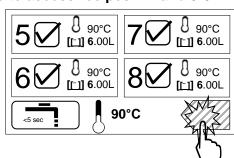
[[-]] 6.00L

Ω 90°C

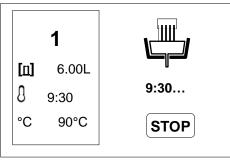
<u>β</u> 90°C

[[-]] **6**.00L

[[-]] **6**.00L

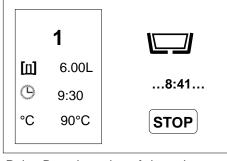


Screens with informational icons shown for factory set recipe #1-(See Icon table for more information)

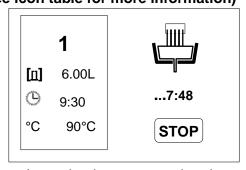


Pulse Brew brew icon→ brew in progress

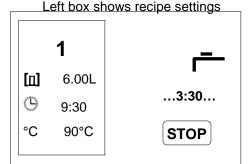
Brew-valve is open in pulse brew mode. closed Valve opens-closes for pulse brew



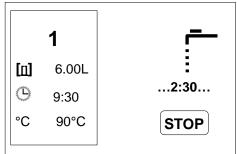
Pulse Brew brew icon → brew in progress paused icon brew-valve is closed



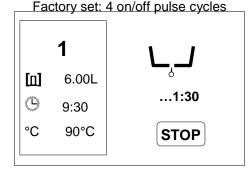
Icons showing open state in pulse brew mode-(brew-valve reopened) Brewing and Pause icons cycle...



Brew completed. 1:00 min bypass delay for drip-out and hot water tank recovery User can determine any bypass delay See following page for programming

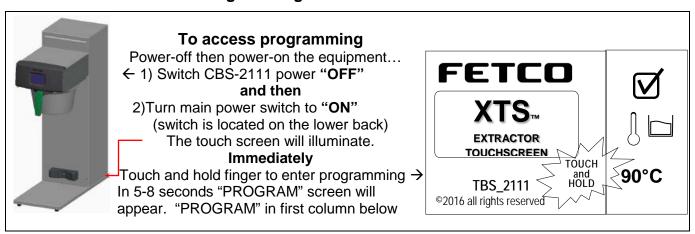


Bypass is cycling and is turned ON

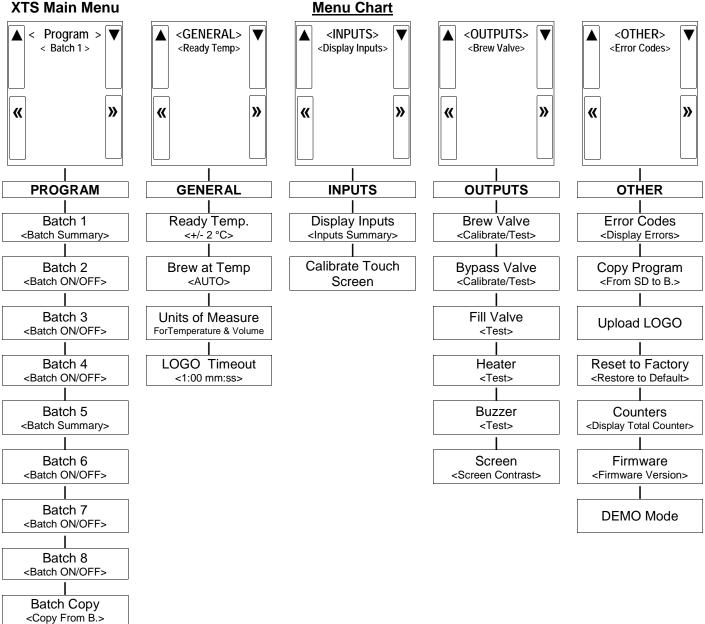


Drip Delay 1:30 minitues At 0:00, recipe screen will refresh Icons shown for factory set recipe #1

## Instructions to access the Programming Menu



Programming-category screens: Menu Tree Menu Features: Batch Parameters



PROGRAM	Programming Items	Factory set Default	Programming Range	Notes
Batch 1 *	Batch Summary	Display Summary	Batch1 Summary Batch Name 1 Brew Temp. 90°C Brew Volume 4.00 Brew Time 6:00 Bypass Vol. 2.00 Liter Total Time 9:30	Summary-continued Bypass Delay 1:00 Number of Pulses 4 Prewet Percent 0% Prewet Delay 0:00 Drip Delay 1:30 Alarm At End NO
	Batch Temp	90 °C	90 °C	This sets the brew temperature for batch-1
	Brew Volume	4.00 liter [ 0.50-4:00]	4.00 liter  []  0.50 6:00	Volume of Coffee (tea to hot water bypass [2:1])
	Bypass Volume	2.00 liter	2.00 liter	Volume of HOT water to add to hot brew
	Bypass Delay	1:00 mm:ss	1:00 mm:ss  _[]   0:00   12:00	Allows for hot water tank recovery
	Prewet Percent	0%	0 %  _[]  0 15	Prewetting helps stabilize ground coffee
Pause after prewet spray completes	Prewet Delay.	0:00 mm:ss	0:00 mm:ss	This feature appears ONLY if Prewet >0:00
	Brew Time	6:00 mm:ss	6:00 mm:ss    1:00 12:00	
	Nr Of Pulses	4	4   1 30	
This is a Safety Feature	Drip Delay	1:30 mm:ss	1:30 mm:ss    0:30 10:00	NEVER remove brewbasket during drip-out
	Alarm at End	NO	NO []  YES NO	
Notice→			ry and are always permaner yely hidden with the Batch C	
Batch 2	Batch ON/OFF	ON	ON  _[]  ON OFF	
	Batch Summary	Display Summary		[See BATCH 1]
	Batch Temp	90 °C	90 °C	This sets the brew temperature for batch-1
	Brew Volume	4.00 liter [ 0.50-4:00]	4.00 liter  []  0.50 6:00	Volume of Coffee (tea to hot water bypass [2:1])
	Bypass Volume	2.00 liter	2.00 liter	Volume of HOT water to add to hot brew
	Bypass Delay	1:00 mm:ss	1:00 mm:ss  _[]  0:00 12:00	Allows for hot water tank recovery
	Prewet Percent	0%	0 %  _[]  0 15	Prewetting helps stabilize ground coffee
Pause after prewet spray completes	Prewet Delay.	0:00 mm:ss	0:00 mm:ss	This feature appears ONLY if Prewet >0:00
	Brew Time	6:00 mm:ss	6:00 mm:ss    1:00 12:00	
	Nr Of Pulses	4	4    1 30	
This is a Safety Feature	Drip Delay	1:30 mm:ss	1:30 mm:ss  []  0:30 10:00	NEVER remove brewbasket during drip-out
	Alarm at End	NO	NO []  YES NO	

### OGRAMMING MENU-Continued

PROGRAM Continued	Programming Items	Factory set Default	Programming Range	Notes
Batch 3	(See Batch 2)			
Batch 4	(See Batch 2)			
Batch 5	(See Batch 1)			
Batch 6	(See Batch 2)			
Batch 7	(See Batch 2)			
Batch 8	(See Batch 2)			
Batch Copy	Copy From Batch	COPY from B.(1-8)?		
	Copy To Batch	COPY to B.(1-8)?		
	Copy?	B1→B2? (example)	NO []_  YES NO	
*Batch 1& 5 are mand	atory and cannot be disabled	. Other batches can be disal	oled ["hidden"], and removed from	n display

#### Programming Batch Temperature

Individual temperature settings can be programmed for all eight recipes. This accommodates many different brew temperature requirements of the coffee product used. The hot water tank temperature automatically sets to the lowest programmed recipe setting. If a brew is started for a higher temperature setting, the brewer will pause and quickly heat the hot water tank to the temperature setting of the recipe before starting the brew. This is rapid: taking only minutes.

Tank temperature is too low for brew setup

1) If the tank temperature is LOWER than the temperature setting—the brewer will display the "Not Ready" icon:  $\cup$ The hot water tank will quickly reheat and the "Ready" icon will display when heated to the set temperature:  $\square$ 

Tank temperature is too high for brew setup

2) If the tank temperature is HIGHER than the temperature setting—the brewer will flash the "PURGE" icon: "PURGE" to cool feature



Purge is drawing a small amount of hot water from the hot water tank—the temperature of the tank is automatically reduced by cool, fresh refill water from the mains. When the "PURGE" icon is activated for 5 seconds approximently ≈150ml/4 fl.oz hot water is relesed as bypass water and the tank temperature is reduced.

a) The hot water tank temperature can be guickly lowered by touching the "PURGE" icon for five seconds. The single purge is adequate for most adjustments.

Note: the purged water increases the contents of the dispenser. The 150ml released is a negligible addition for most brews—but should be noted for dispensers without headspace or for multiple purges

b)Water may be drawn from the hot water service faucet to lower hot water tank temperature. The "PURGE" function is preferred as it offers better control.

#### c) Tank temperature override

The brew can be started at the high temperature by touching and holding the "START" icon to override the icon.

The brew may be exposed to some brewing water that is higher than temperature setpoint.

	Recipe temperature setting table							Purge to lower brew	water temperature
	GE	NE	RAL			SETTINGS BY USI	ΞR	Recipes show the temperature	1 2 30°C 2 30°C 100°C
			Set			ture Summary as S		setting. These can be set by	12   5.00.   242   5.00.
Τe	emperati	ure	Summary		Fill this in	and save for futur	e reference	user from 80-97°.	3 🗹 🚊 500. 4 🗹 👊 500.
1	90°C	5	90°C		1	5		PURGE Icon→	
2	90°C	6	90°C		2	6		Touch the purge icon for 5 sec. This will lower hot water tank	
3	90°C	7	90°C		3	7		temperature 3-4 degrees	
4	90°C	8	90°C		4	8			

GENERAL	Programming Items	Factory set Default	Programming Range (display)	Notes
Ready Temp		+/-2°C	+/-2°C	Range when "READY" icon will show
Brew at Temp.	"OFF" allows brewing at any temperature.	AUTO	AUTO  []  OFF AUTO	SEE NOTE! (Below)
Units of Meas. <toggle temp-vol.=""></toggle>	Temperature	°C	Å Ç	
<toggle temp-vol.=""></toggle>	• Volume	Liters	Liters    Gallons Liters	
Logo Timeout		1:00 mm:ss	1:00 mm:ss  _ <b>I</b>   0:00 5:00	

#### **NOTE: FOR BREW AT TEMPERATURE DEFINITONS BREW AT TEMP: AUTO** (DEFAULT: FACTORY PROGRAMMED INTO BREWER) This allows the "BREW START" to active. If the hot water tank is at the selected temperature—the brew will start. If the temperature is too low-not at the selected temperature, the brewer will wait until the ☐ 6.00L proper temperature is reached and then wil automatically begin brewing. 87° A thermometer icon screen will display showing the tank temperature. (example: right) ₹∐} 10:36 (<set point) IMPORTANT: °C 90.0 **STOP** ALWAYS have dispenser(s) under the brew baskets when in the BREW AT TEMP mode.

BREW AT TEMP: OFF USER SELECTABLE

Allows brewing at any temperature. (Not recommended-it is possible to start brew with brew water at incorrect temperature.)

INPUTS	Programming Items	Factory set Default	Programming Range (display)	Notes
Display Inputs	• Input Summary		Brew Basket Sensor □  Liquid Level Sensor ■  Temperature Probe	
			SD Card □	
Cal. Touch Scr		Calibrate	Calibrate	If <u>Yes:</u> Follow directions on the touch screen

OUTPUTS	Programming Items	Factory set Default	Programming Range (display)	Notes
Brew Valve Calibrate/Test	Brew Valve	(Press to test)	CAL Serew Valve > CAL Calibrate/Test> Cal Test Press To Cal/Test BASKET IN PLACE TEMP READY	Runs valve to verify flow. Have container under brew basket!
Brew Valve- CALIBRATE	Brew Valve		OUTPUTS > CAL Serious Valve > Calibrate/Test> Cal Test Press To Cal/Test BASKET IN PLACE TEMP READY	See pages 10-12 for detailed calibration procedure and screens
BYPASS Valve- CALIBRATE	BYPASS Valve		Cal Time Rem. 1:00 CAL IN PROGRESS CAL	See pages 10-12 for detailed calibration procedure and screens
Fill Valve	• Fill Valve Test	(Press to test)	TEST Press To Test	Operates fill valve. Have container under both brew baskets!
Heater	Heater Test	(Press to test)	TEST Press To Test	Energizes Heater(s) Use for servicing.
Buzzer	Buzzer Test	(Press to test)	TEST Press To Test	Confirms "BEEP" Use for servicing.
Screen	Screen Contrast	Contrast	8 1 10	
	S. Brightness	Brightness	8   <u> </u>	

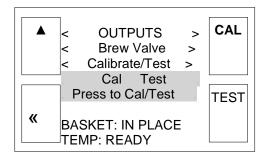
### How to calibrate the flow rate for the brew valve or bypass valve

Set the flow rates of brew valve to adjust for taste profile and for batch size.

Built-in algorithms in Brewer controller software corrects brew parameter to customer preferences or to trim variations in flow control components **NOTICE:** This operation requires operator to activate brew or bypass function for one minute—and to measure the output

## 1) MEASURE THE FLOW RATE:

- -Enter programming mode, scroll left to "OUTPUTS"
- -Scroll down to "Brew Valve Calibrate/Test" (or)
- "Bypass Valve Calibrate/Test"
- -Next: scroll down to "Calibrate Test"



-Place 3 liter/1 gal measuring container under empty brew basket.

The water dispensed may be accurately measured or weighed. Use a scale for at least 3 kg/8lb

-Press The CAL button. →! The valve will open for one minute

It is very important for this test to measure the flow for the entire minute.

Measure the results of the flow in the measuring container and hold the number.

## 2) AUTOMATIC Built-in CALIBRATE THE FLOW RATE

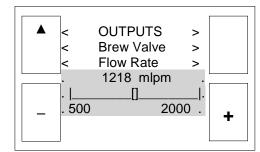
- -Enter this number, in milliliters, into the calibration slider for the Valve tested in the OUTPUT MENU.
- -Enter in milliliters. If measured in fluid ounces (fl.oz) multiply by 29.57 to convert to milliliters
- -After entering the measured volume, exit PROGRAMMING and return to the normal screens

By entering the new flow rate number into the brewer, the software automatically corrects the valve flow discrepancy



From calibrate-test screen, brewer automatically dispenses for 60 seconds. The calibration test flow is carefully measured in milliters.

A 3 liter/1 gal measuring container is recommended.



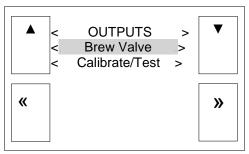
Scroll from the calibrate-test screen into the FLOW RATE screen. Enter the <u>calibration test flow</u> on the slider using the + and - icons.

EXIT and SAVE as prompted.

Built in software will automatically calibrate the BREW valve.

Calibration must be repeated for the BYPASS valve

#### **EXAMPLE: Calibrate BREW VALVE.**

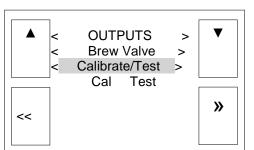


1) Enter PROGRAMMING menu (See page 5: INSTRUCTIONS TO ACCESS PROGRAMMING MENUS)

Scroll to "OUTPUTS" in PROGRAMMING

Scroll down to **BREW VALVE** 

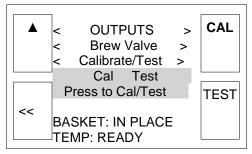
(The following areas may be accessed in this PROGRAMMING position: BREW VALVE, BYPASS VALVE, Fill Valve, Heater, Buzzer, Screen. To access these: with the 2<sup>nd</sup> level highlighted as shown—scroll through the positions with the right/left arrows. Only the Brew and Bypass valves can be calibrated)



#### Scroll down to "Calibrate/Test"

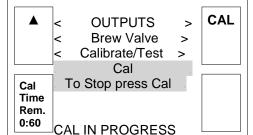
(The following areas may be accessed in this PROGRAMMING position: Calibrate/Test and Flow Rate. To access these: with the 3<sup>rd</sup> level highlighted as shown—scroll through the positions with the right/left arrows. CBS-2111 automatically calibrates based on the flow entered. The highlighted FLOW RATE is used to enter the flow rate and for Service and to fine tune the flow.)

Scroll down to "Cal Test"



Have 3 Liter/1Gallon measuring container under brew basket

## In "Cal Test

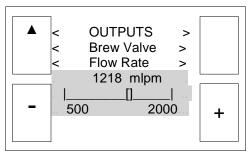


## PRESS CAL and remove finger—do not hold

The CBS-2111 will dispense for exactly one minute and automatically stop.

Carefully measure the amount of water, in milliliters, that was dispensed This is the calibration test flow

The calibration results are enetered into the slider that automacially displays



#### ENTER THE CALIBRATION TEST FLOW RESULTS

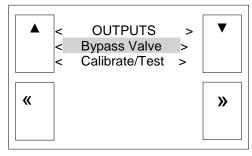
The calibration is adjusted by the CBS-2111XTS software by entering the amount of water into the slillder that was dispensed in 60 seconds.

**The slider shows 1218 mlpm** (milliters per minute)-enter your results. Using the + and – icons, enter the amount of water dispensed on the slider. Enter in milliliters (multiply fluid ounces by 29.6 to obtain milliliters)

Scroll UP and OUT and save calibration as directed by screen prompts.

Brew valve is automatically calibrated on saving the test flow entered. **EXIT TO COMPLETE CALIBRATION** 

#### **EXAMPLE: Calibrate BYPASS VALVE.**

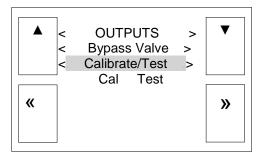


1) Enter PROGRAMMING menu (See page 5: INSTRUCTIONS TO ACCESS PROGRAMMING MENUS)

Scroll to "OUTPUTS" in PROGRAMMING

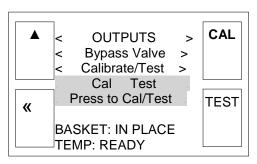
Scroll down to BYPASS VALVE

(The following areas may be accessed in this PROGRAMMING position: BREW VALVE, BYPASS VALVE, Fill Valve, Heater, Buzzer, Screen. To access these: with the 2<sup>nd</sup> level highlighted as shown—scroll through the positions with the right/left arrows. Only the Brew and Bypass valves can be calibrated)



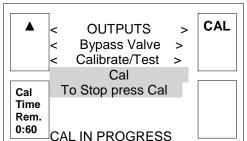
## Scroll down to "Calibrate/Test"

(The following areas may be accessed in this PROGRAMMING position: Calibrate/Test and Flow Rate. To access these: with the 3<sup>rd</sup> level highlighted as shown—scroll through the positions with the right/left arrows. CBS-2111 automatically calibrates based on the flow volume entered. The highlighted FLOW RATE is used to enter the flow rate and for Service and to fine tune the flow.)



Scroll down to "Cal Test"

Have 3 Liter/1Gallon measuring container under bypass basket



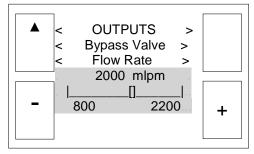
## In "<u>Cal Test</u>

### PRESS CAL and remove finger—do not hold

The CBS-2111 will dispense for exactly one minute and automatically stop.

Carefully measure the amount of water, in milliliters, that was dispensed This is the calibration test flow

The calibration results are enetered into the slider that automacially displays



#### ENTER THE CALIBRATION TEST FLOW RESULTS

The calibration is adjusted by the CBS-2111XTS software by entering the amount of water into the slillider that was dispensed in 60 seconds.

The slider shows 1218 mlpm (milliters per minute)-enter your results. Using the + and – icons, enter the amount of water dispensed on the slider. Enter in milliliters (multiply fluid ounces by 29.6 to obtain milliliters)

Scroll UP and OUT and save calibration as directed by screen prompts.

Bypass valve is automatically calibrated on saving the test flow entered.

OTHER	Programming Items	Factory set Default	Programming Range (display)	Notes
Error Codes	Display Errors	(Codes)	1: 2: 3:	Chart on next page
	Reset Errors	(Reset)	Reset []  YES NO	!!Clear only with guidance from factory or service !!
Copy Program	• From SD to B.	SD→ Brewer	SD→ Brewer 	Setup upload Please insert SD card with the setup data!
	• From B to SD	Brewer→ SD	Brewer→ SD     YES NO	Setup download  Please insert SD card with sufficient space (≥2GB)
Upload Logo		Upload Logo	UPLOAD LOGO Are you sure	Please insert SD card with logo file!
Res to Factory		Reset to default	Reset to Default Are you sure	Completely overwrites all user setup, including user logo.
Counters	<ul><li>Display Counters</li><li>OR-</li><li>Reset Counters</li></ul>	Counters Display Total Counters	Brews 0 Brews activated 0 Brew [liters] 0 Bypass Activated 0 Bypass L [liters] 0 Fill valve Activated 0 Fill Valve [liters] 0 Heater Activated 0	Resetting will restart counters from zero when selected
	• Reset Counters	Reset All Counters	Reset All Counters Are you sure  []  YES NO	
Firmware	• Firmware Version -Software type	Firmware Version	Display Versions TBS_2111 SW ver. 1.05 HW ver. BL ver. 1.1.4 QP ver. 4.5.03	Displays firmware version
	Update     Firmware	UPDATE	UPDATE  []  YES NO	Firmware upload  Please insert SD card with the firmware file!
DEMO Mode [Not on all units]	DEMO ON/OFF	May not be included	OFF [] ON OFF	Demonstrates the controls for training. Disables all components in demo mode.
Some software versi	ons will not have "DEN	NO- MODE"	· · · · · · · · · · · · · · · · · · ·	

	Error Codes								
→Conta	→Contact specialized personnel for error codes								
Code	Description	Possible Cause	Corrective Action						
001	Software error-error on start up or corrupted software	Improper start-up or shutdown	Restart , if still fault: reload software						
050	Short-circuit in temperature probe	Probe failure.	Replace probe.						
051	Open temperature probe.	Bad probe connection, or probe failure.	Check all connections. Replace probe if necessary.						
100	Initial Fill Error. Initial fill time was more than 11 minutes after power up.	Water supply flow rate is too low.	Watch for short potting during brew cycle. Investigate cause of low flow rate. (Clogged water filter)						
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)						
102	Unwanted fill;	Possible leak in tank, fitting, or valve.	Occurs during pre-fill, low probe is uncovered						
201	Heater open, high limit thermostat, or Solid State Relay (SSR) fault	Failure of: heating element, SSR, high Limit or low voltage	Check and replace heating elements if necessary.						
255	Touch pad error	Usually from longer than 2 min contact. Or faulty reassembly after service	Restart , if still fault: reload software. If mechanical: reassemble correctly						
	INSERT BREW BASKET	Brew basket must be in place  This is a SAFETY FEATURE	Insert brew basket into brewer rails to enable brewer						

<sup>! &</sup>gt; Never attempt to remove a brew basket-during brew-this is a safety feature

### **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 5 minutes.
- 2. Do not remove the brew basket from a coffee brewer 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 dispensers for transporting.
- 5. Show the location and operation of the water shut off valve as well as the circuit breaker for the brewer.
- 6. Steam from the tank will form condensation in the vent tubes. This condensation will drip into and then out of the brew baskets. Up to 1/4 cup/118cc discharging overnight is possible. Place an appropriate container under each brew basket when not in use.
- 7. We recommend leaving the power to the brewer on overnight. The water tank is well insulated and very little electricity is used 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.

## Cleaning & Maintenance

#### After Each Brew:

- 1. Dispose of used coffe filter and gronds/spent tea leaved and rinse brew basket.
- Never strike a brew basket or hit it against a hard surface.This will damage the brew cone, and may damage the brew basket support rails
- 3. Rinse dispensers before reuse.

#### **Every Day:**

- 1. Wash brew basket with hot sudsy water.
- 2. Pull CSD from the spray head, it is magnetically attached. Use gloves or a heavy towel. → off any film and reattach. Use vinegar if limescale filming is present.
- 3. Clean dispensers with hot suds water and a brush, rinse and air dry.
- 4. Use only a soft cloth and hot suds on the outside to avoid scratches. Never use abrasives that will scratch surface.

#### Weekly

- 1. Use a commercial coffee dispenser cleaner such as URNEX™, TABZ™, DIP-IT™ or Squeak 'n Clean™.
- 2. Carefully Follow the instructions supplied with the cleaning product
- 3. Never use spray cleaners, solvent, solvent based cleaner or petroleum based polish anywhere on dispensers

#### Warning

- 1. Turn off power before any cleaning procedure, including wiping the exterior for appearance reasons.
- 2. Dry the exterior, especially the face panel, before turning on power.
- 3. Do not apply any type of spray cleaner on the face panel of this equipment.
- 4. Never use solvent or solvent-based cleaner or petroleum based polish anywhere on this equipment.
- 5. Dry the face of the touch pad before turning on power
- 6. Do not electrically energize this equipment or attempt operation without all covers in place and all screws fastened.
- 7. Unplug machine before disassembly or servicing.

#### **Safety Notes**

- 1. Professional installation is required. This appliance is manufactured only for commercial use
- 2. Operational requirements and maintenance for commercial cooking appliances differ from household appliances.
- 3. Operators must be trained for this equipment and must understand the use, maintenance and hazards.
- 4. Access to the service area is restricted to persons having safety/hygiene knowledge and practical experience of the coffee brewer. This appliance must be installed in locations where it can be overseen by adult trained personnel.
- 5. Do not attempt to move hot beverage equipment once it is filled. Drain equipment before moving.
- 6. FETCO commercial coffee brewers prepare large amounts of coffee or tea in a single batch using very hot water
- 7. Commercial coffee brewers provides very hot water from the sprayhead, brew basket and faucet when it is pulled.
- 8. Brewers may continue to dispense very hot water from the mechanically operated faucet after the electronic touchpad is completely disabled by turning off the power switch on the lower back of the unit, or unplugging the unit.
- 9. For safety, do not remove brew basket during the brew.

#### Keep these instructions for training and future reference.

### Service Guide to a Successful Installation

(For Qualified Service Technicians Only)

#### General:

- 1. If not installed correctly by qualified personnel, the brewer will not operate properly and damage may result.
- 2. Utilize only qualified beverage equipment service technicians for service and installation.
- 3. Always have an empty dispenser under sprayhead of all coffee brewing equipment-including when at idle
- 4. Damages resulting from improper installation are not covered by the warranty, and will void the warranty.
- 5. Optional Hot Water Service Faucet is separate. See Page 22 for installation instructions. Install before startup. Below are the key points to consider before installation:

#### Electrical:

- 1. All CBS\_Series brewers require an electrical ground wire. Installation without grounding is dangerous.
- 2. Note Equipotentiality Terminal, if present, (To identify the terminals which, when connected together, bring the various parts of equipment or of a system to the same potential, not necessarily being the earth (ground) potential, e.g. for local bonding.)
- 3. Verify voltages, polarity, circuits, and circuit breaker access before attaching equipment.
- 4. Brewers in this series wire differently in regards to a neutral wire. Review the wire diagrams.
- 5. The electrical diagram is located in the Users Guide and online at www.fetco.com.
- 6. Make sure of the tight grounding of the equipment and use the external ground bolt.
- 7. 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.

## → See wiring diagrams for connections

## Plumbing:

- 1. North America: All installations must comply with applicable federal, state, or local plumbing codes.
- 2. All Others: The water and waste piping and connections shall comply with the International Plumbing Code 2003, International Code Council (ICC), or to the Uniform Plumbing Code 2003 (IAPMO).
- 3. Use an inline water filter for all beverage equipment.
- 4. Install the filter unit after a water shutoff valve and in a position to facilitate filter replacement.
- 5. The water line and newly installed filter cartage must be flushed thoroughly prior to connecting it to the brewer to prevent debris from contaminating the machine.
- 6. Verify that the water line will provide a flow rate of at least 1½gpm/(5.7lpm) per minute and the water pressure is between 20-75 psig (138-517kPa) before making any connections.
- 7. Use a wrench on the factory fitting when connecting the incoming water line. This will reduce stress on the internal connections and reduce the possibility of leaks developing after the install has been completed
- 8. Install a backflow prevention device. Most municipalities require a recognized backflow preventer.

Usable on all hot beverage and cold beverage equipment is a WATTS® SD-2 or SD-3.

WATTS spring loaded double check valve models are accepted by most zoning authorities.

→The check valve should be as close to the water supply inlet of the beverage equipment as possible.

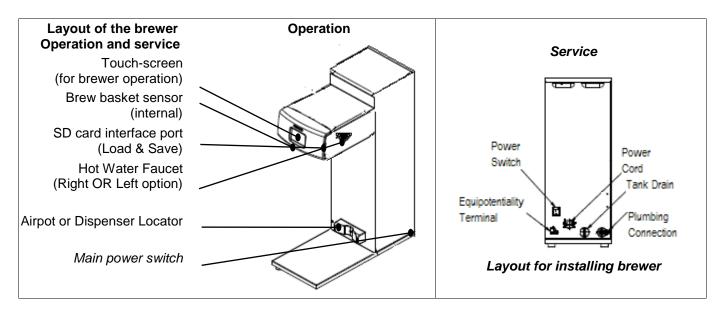
#### Tank Drain

The water tank must be drained before maintenance procedures, and when the unit is to be relocated or shipped

- 1. Disconnect power to unit.
- 2. Move the unit near a sink or obtain a container large enough to hold four gallons of water and a hose clamp.

  Note that the tank may hold more than four gallons and that the drain line will be clamped to empty the container.
- 3.NOTE: Multiple buckets may be needed during the draining, see tank volumes below
- 4. Remove the tank cover and allow the tank to cool to a safe temperature
- 5. The tank drain is located on the back of the unit. Turn the drain plug one-quarter turn in either direction
- 6. Pull the plug out far enough to expose the silicone tube
- 7. Using pliers loosen the hose clamp and move it back over the tube.
- 8. Crimp the tube an inch or two away from the drain plug to prevent water from flowing.
- 9. Use the other hand to pull the drain plug out of the tube.
- 10. Release the crimped tube and allow the water to flow into the sink or container.

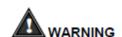
Brewer	Hot Water Tank Capacity
CBS-2111XTS	11.9 liter 3.1 gallon



#### Installation safety and hygiene directions

- 1. Access to the service area is restricted to persons having safety/hygiene knowledge and practical experience of the coffee brewer. This appliance must be installed in locations where it can be overseen by trained personnel.
- 2. For proper operation, this appliance must be installed indoors where the temperature is between 10°C/50°F to 35°C/95°F. Drain and remove all liquid from equipment and lines if exposed to freezing temperatures.
- 3. All commercial cooking equipment, including this unit, is not intended for use by children or persons with reduced physical, sensory, or mental capabilities. Ensure proper supervision of children and keep them away from the unit.
- 4. Children should be supervised to ensure that they do not play hot beverage equipment.
- 5. This unit must be installed and serviced by qualified personnel only.
- 6. Installation must conform to all local electrical and plumbing codes. Installation by unqualified personnel will void the unit warranty and may lead to electric shock or burn, as well as damage to unit and/or its surroundings.
- 7. If the power cord requires repair or replacement-it must be performed by the manufacturer or authorized service personnel with the specified cord only from the manufacturer in order to avoid a hazard.
- 8. Review the dimensions for the unit and verify that it will fit properly in the space intended for it. Verify that the counter or table will support the total weight of the brewer and dispensers when filled (See: Technical Data).
- 9. Place the brewer on the counter or stand. When the brewer is in position, level it front to back as well as side-to-side by adjusting the legs.
- 10. Brewers will need a sturdy supported surface for operation. Do not move brewers when filled.
- 11. Do not tilt appliance more than 10° to insure safe operation.
- 12. Unit is for protected indoor use only. Do not steam clean or use excessive water on unit.
- 13. This unit is not "jet-proof" construction. Do not pressure wash or use jet spray to clean this unit.
- 14. The unit is not waterproof-do not submerge or saturate with water.

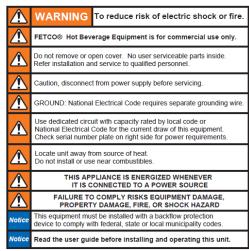
Equipment exposed to flood and contaminated must not be used due to electrical and food safety. Do not operate if unit has been submerged or saturated with water.



All electrical connections must be in accordance with local electrical codes and any other applicable codes. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.

To prevent an electric shock hazard this device must be bonded to equipment in close proximity with an equipotential bonding conductor. This device is equipped with a bonding lug for this purpose and is marked with the following symbol

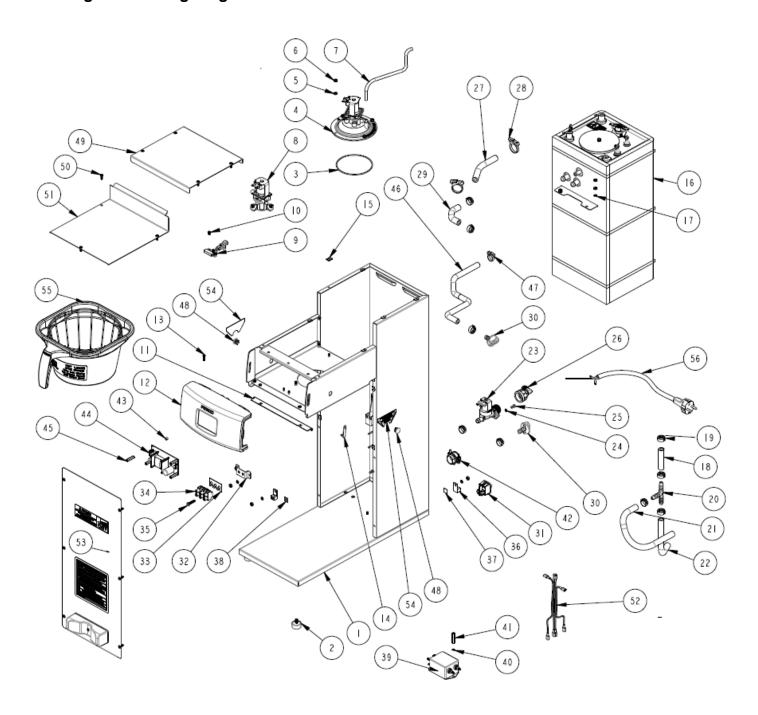




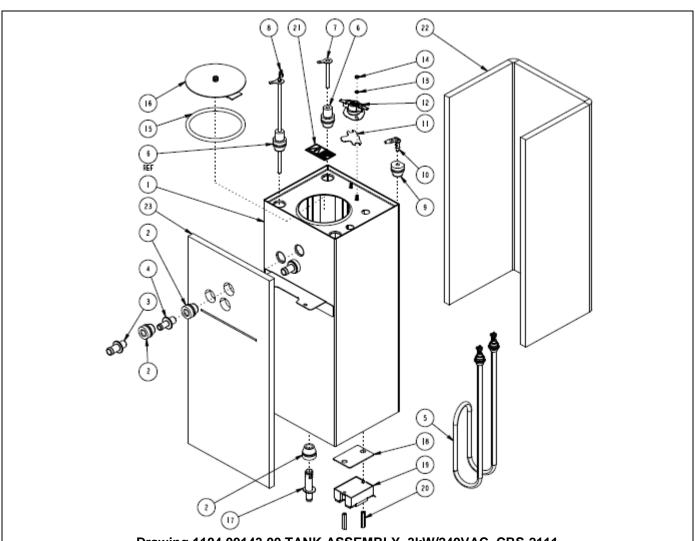
Labels and warnings for hot beverage equipment

For BACK PANEL of equipment (1046.00035.00)

# **Drawings and Wiring DiagramsParts**

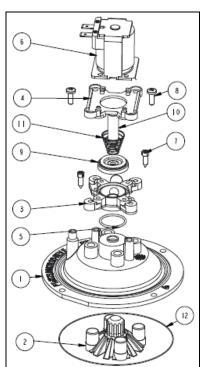


Ref#   QTy		Drawing 1101.00513.00 ASSEMBLY, 3kW/240VAC, CBS-2111			
1 1 1111.0092.00 WELDMENT. 2 4 1073.0021.00 VIBRATION MOUNT. SINGLE END MALE. 1/4-20. 3 1 1024.0093.00 O-RING, 3 15/16' x 3/32' CS. DASH # 154, BUNA-N, DURO-A50 4 1 1102.0023.00 ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN 5 6 1083.0001:0.00 WASHER, #10 SCREW WINEOPRENE-BONDED SEAL NUT. 8-32 18-8 HEX MACHINE SCREW 7 1 1025.00012.00 TUBE, 5/16'00 X 3/16'10 X 11.00'1.00 8 1 1102.001345.00 ASSEMBLY, BYPASS VALVE, 9 1 1102.001330.00 SWITCH, RED, ASSEMBLY 10 2 1029.00006.00 NUT, FINGER, #4-40 NYLON 11 1 1024.00039.00 GASKET, FRONT 4A 12 1 11024.00039.00 GASKET, FRONT 4A 12 1 11024.000340.00 SCREW, # 3-22 X 5/8, FLAT HD, PH, 18-8 SS 14 1 1024.000340.00 CARD PLUG, HWD-2100 15 12 1084.00011.00 NUT. CLIP PON (JANUT), #6-32, 22-20 GA, BLK-PH FINISH 16 1 1104.00143.00 TANK ASSEMBLY, 3KW/240VAC, 17 6 1083.00011.00 NUT. CLIP PON (JANUT), #6-32, 22-20 GA, BLK-PH FINISH 18 1 1025.001910.00 TUBE, 5/8'00 X 3/8'ID X 2-50'LG. 19 9 1086.00003.00 UNICLAMP, 15.9 HOSE OD CLAMP 20 1 1029.00002.00 FITTING, HOSE BARB TEE, SIZE 3/8' 21 1 1025.001940.00 DRAIN TUBE, 5/8'00 X 3/8'ID X 2-1'LG, CBS-2-121 21 1 1025.000140.00 DRAIN TUBE, 5/8'00 X 3/8'ID X 2-1'LG, CBS-2-121 21 1 1025.000140.00 SCREW, M 43-1'LG, FLATEN TO THE CKWASHER 22 1 1025.000140.00 SCREW, MASTOL XINE, SIZE 3/8' TUBE, SIZE 3/8' 21 1 1025.000140.00 DRAIN TUBE, 5/8'00 X 3/8'ID X 2-1'LG, CBS-2-121 21 1 1025.00040.00 SCREW, MASTOL XINE, SIZE 3/8' TUBE, SIZE 3/8' 21 1 1025.00040.00 SCREW, MASTOL XINE, SIZE 3/8' TUBE, SIZE 3/8' 21 1 1025.00040.00 SCREW, MASTOL XINE, SIZE 3/8' TUBE, SIZE 3/8' 21 1 1025.00040.00 SCREW, MASTOL XINE, SIZE 3/8' TUBE, SIZE 3/8' 21 1 1025.00040.00 SCREW, MASTOL XINE, SIZE 3/8' TUBE, SIZE 3/8' 21 1 1025.00040.00 SCREW, MASTOL XINE, SIZE 3/8' TUBE, SIZE 3/8' 21 1 1025.00040.00 SCREW, MASTOL XINE, SIZE 3/8' TUBE, SIZE 3/8' 21 1 1025.00040.00 SCREW, MASTOL XINE, SIZE 3/8' TUBE, SIZE 3/8' 21 1 1025.00040.00 SCREW, MASTOL XINE, SIZE 3/8' TUBE, SIZE 3/8' 21 1 1025.00040.00 SCREW, MASTOL XINE, SIZE 5/8' SOAD, SIZE 5/8' SOAD, SIZE 5/8' SOAD, SIZE 5/8' SOAD, SIZE 5/8' S	Ref#	Qty			
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1   1024.00063.00   O.RING, 3 15/16' x 3/32' CS, DASH # 154, BUNA-N, DURO-A50     4   1   1102.00031.00   ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN     5   6   1083.00010.00   ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN     7   1   1025.00012.00   TUBE, 5/16'OD X 3/16'ID X 11.00'LG     8   1   1102.00345.00   ASSEMBLY, BYPASS VALVE,     9   1   1102.001345.00   ASSEMBLY, BYPASS VALVE,     10   2   1029.00006.00   ASSEMBLY, BYPASS VALVE,     11   1024.000590   O. SWITCH, REED, ASSEMBLY     11   1024.000590   O. SWITCH, REED, ASSEMBLY     11   1024.000590   O. GASKET, FRONT 4A     12   1   1102.00354.00   ASSEMBLY, FRONT PANEL,     13   4   1082.000580   O. SCREW, M. 8-32, X 5/8, FLAT HD, PH, 18-8 SS     14   1   1024.000590   O. SCREW, M. 8-32, X 5/8, FLAT HD, PH, 18-8 SS     15   12   1084.00011.00   NUT, CLIP ON (J-NUT), 86-32, 22-20 GA, BLK-PH FINISH     16   1   1104.00143.00   TANK ASSEMBLY, 3WW:240VAC     17   6   1083.00011.00   WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK     18   1   1025.000149.00   UINCLAMP, 15.9 HOSE OD CLAMP     10   10   10   10   10   10   10	2	4	1073.00021.00	·	
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8         1         1102.00345.00         ASSEMBLY, BYPASS VALVE.           9         1         1102.00113.00         SWITCH, REED, ASSEMBLY           10         2         1029.00006.00         NUT, FINGER, JR-40 NYLON           11         1         1024.00059.00         ASSEMBLY, FRONT PANEL.           12         1         1102.00354.00         ASSEMBLY, FRONT PANEL.           13         4         1082.00058.00         CARD PLUIG, HWD-2100           15         12         1084.00011.00         CARD PLUIG, HWD-2100           15         12         1084.00011.00         NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH           16         1         1104.00143.00         TANK ASSEMBLY, SkW/Z40VAC,           17         6         1083.00011.00         WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK           18         1         1025.00119.00         UNIC, LAND           29         1         1029.00002.00         FITTING, HOSE BARB TEE, SIZE 3/8"           21         1         1025.0014.00         DRAIN TUBE, 5/8"OD X 3/8"ID X 2*CI, CBS-2121           22         1         1025.00040.00         TUBE, 5/8"OD X 3/8"ID X 3*CI, TANK WATER INLET           23         1         1057.00043.00         SOLENOID VALVE, GL/min, 180 DEG, 24VDC     <					
9 1 1102.00113.00 SWITCH, RÉED, ASSEMBLY 10 2 1029.0006.00 NUT, FINGER, #4-40 NYLON 11 1 1024.00059.00 GASKET, FRONT 4A 12 1 1102.00354.00 ASSEMBLY, RRONT PANEL, 13 4 1082.00058.00 SCREW, #8-32 X 5/8, FLAT HD, PH, 18-8 SS 14 1 1024.00040.00 CARD PLUG, HWD-2100 15 12 1084.00011.00 NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH 16 1 1104.00143.00 TANK ASSEMBLY, 3kW/240VAC, 17 6 1083.00011.00 WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK 18 1 1025.00119.00 TUBE, 56'8'0 DX 38'1D X 12'SC 16. 19 9 1086.0003.00 UNICLAMP, 15-9 HOSE OD CLAMP 20 1 1029.0002.00 FITTING, HOSE BARR TEE, SIZE 3/8' 21 1 1025.00114.00 DRAIN TUBE, 5/8'OD X 3/8'ID X 12'LG, CBS-2121 22 1 1025.00004.00 TUBE, 56'8'OD X 3/8'ID X 12'LG, ANK WATER INLET 23 1 1067.00043.00 SOLENOID VALVE, 6L/min, 180 DEG, 24VDC 24 2 1083.00005.00 WASHER, M41-88 INTERNAL TOOTH LOCKWASHER 25 2 1082.0010.00 SCREW, M44-10 ZINC-PLATED PAN HD. PHILLIPS MACH. 26 1 1102.00243.00 ADAPTER ASSY, 3/4" BSP X 1/4" NPT X 3/8" TUBE 27 1 1025.00016.00 TUBE, 5/8 OD X 3/8" ID X 50" LG, DOUBLE VALVE 28 2 1086.00018.00 HEYCO HOSE CLAMP DIA. 875-1.00 29 1 1025.00011.00 TUBE, 5/8 OD X 3/8" ID X 50" LG, DOUBLE VALVE 30 1 1068.00018.00 HEYCO HOSE CLAMP DIA. 875-1.00 30 2 1023.00147.00 PLUG, TANK SERVICE DRAIN FOR 18 GA AND UP BODY 31 1 1058.00024.00 SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC 32 1 1012.00014.00 PLUG, TANK SERVICE DRAIN FOR 18 GA AND UP BODY 31 1 1058.00025.00 PLATE, MARKING WBS1016E 34 1 1052.00025.00 PLATE, MARKING WBS1016E 35 1 1085.00009.00 GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM 36 1 1064.00013.00 LABEL GROUND, CE 37 1 1085.00009.00 SCREW, PILLIPH PL, 8-32 THREAD 38 1 1064.00013.00 LABEL GROUND, CE 39 1 1059.00009.00 GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM 41 1 1068.00009.00 SCREW, PILLIPH PL, 8-32 THREAD 41 1 1050.00009.00 GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM 42 1 1081.00061.00 SPACER, BW DOUBLE POLE, 16A, 125/250 VAC 44 1 1086.00010.00 SCREW, PILLIPH PL, 8-32 THREAD 45 1 1068.00010.00 SPACER, BW DOUBLE POLE, 16A, 125/250 VAC 46 1 1068.00010.00 SCREW, PILLIPH P	8			, ,	
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23         1         1057.00043.00         SOLENOID VALVE, 6L/min, 180 DEG, 24VDC           24         2         1083.0005.00         WASHER, M4 18-8 INTERNAL TOOTH LOCKWASHER           25         2         1082.00010.00         SCREW, M4410 ZINC-PLATED PAN HD. PHILLIPS MACH.           26         1         1102.00243.00         ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE           27         1         1025.00046.00         TUBE, 5/8" OD X 3/8" ID X 5.0" LG, DOUBLE VALVE           28         2         1086.00018.00         HEYCO HOSE CLAMP DIA. 875-1.00           29         1         1025.00011.00         TUBE, 5/8 OD X 3/8 ID X 4.25" LG           30         2         1023.00147.00         PLUG, TANK SERVICE DRAIN FOR 18 GA AND UP BODY           31         1         1058.00024.00         SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC           32         1         1112.00246.00         WELDMENT BRACKET TERMINAL BLOCK, 3 POLE           33         1         1052.00025.00         PLATE, MARKING #BS1016E           34         1         1052.00020.00         EUROSTRIP HEIO TERMINAL BLOCK, 3 POLE, 50AMP, 18-8           35         2         1082.00082.00         SCREW, PHILLIP HD., 8-32 THREAD           36         2         1065.00009.00         GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM				· · · · · · · · · · · · · · · · · · ·	
24         2         1083.00005.00         WASHER, M4 18-8 INTERNAL TOOTH LOCKWASHER           25         2         1082.00010.00         SCREW, M4x10 ZINC-PLATED PAN HD. PHILLIPS MACH.           26         1         1102.00243.00         ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE           27         1         1025.00046.00         TUBE, 5/8" OD X 3/8" ID X 5.0" LG, DOUBLE VALVE           28         2         1086.00018.00         HEYCO HOSE CLAMP DIA. 875-1.00           29         1         1025.00011.00         TUBE, 5/8 OD X 3/8 ID X 4.25" LG           30         2         1023.00147.00         PLUG, TANK SERVICE DRAIN FOR 18 GA AND UP BODY           31         1         1058.00024.00         SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC           32         1         1112.00246.00         WELDMENT BRACKET TERMINAL BLOCK, 3 POLE           33         1         1052.00025.00         PLATE, MARKING #BS1016E           34         1         1052.00022.00         EUROSTRIP HE10 TERMINAL BLOCK, 3 POLE, 50AMP, 18-8           35         2         1082.00082.00         SCREW, PHILLIP HD., 8-32 THREAD           36         2         1065.00009.0         GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM           37         1         1044.00013.00         LABEL GROUND, CE					
25 2 1082.00010.00 SCREW, M4x10 ZINC-PLATED PAN HD. PHILLIPS MACH. 26 1 1102.00243.00 ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE 27 1 1025.00046.00 TUBE, 5/8" OD X 3/8" ID X 5.0" LG, DOUBLE VALVE 28 2 1086.00018.00 HEYCO HOSE CLAMP DIA. 875-1.00 29 1 1025.00011.00 TUBE, 5/8 OD x 3/8 ID x 4.25" LG 30 2 1023.00147.00 PLUG, TANK SERVICE DRAIN FOR 18 GA AND UP BODY 31 1 1058.00024.00 SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC 32 1 1112.00246.00 WELDMENT BRACKET TERMINAL BLOCK, 3 POLE 33 1 1052.00025.00 PLATE, MARKING #BS1016E 34 1 1052.00025.00 EUROSTRIP HE10 TERMINAL BLOCK, 3 POLE, 50AMP, 18-8 35 2 1082.00082.00 SCREW, PHILLIP HD., 8-32 THREAD 36 2 1065.0009.00 GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM 37 1 1044.00013.00 LABEL EQUIPOTENTIALITY, CE 38 1 1044.00012.00 LABEL EQUIPOTENTIALITY, CE 39 1 1052.00029.00 EMI FILTER, TWO LINE 20A,120/250VAC 40 2 1083.0009.00 WASHER, #6 SCREW, INTL TOOTH LOCKWASHER 41 2 1081.00061.00 STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD 42 1 1086.00008.00 CONNECTOR, CABLE CLAMP, 3/4" 43 4 1081.00061.00 SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P 44 1 1052.00011.00 POWER SUPPLY, 90-264VAC/24VDC, 1.8A 45 4 1029.00012.00 SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P 44 1 1056.00003.00 SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P 45 1 1086.000047.00 CAP PLUG, PANEL, 15/32 ID x 5/8 OD, 49 1 1001.00338.00 COVER, TOP, 50 13 1082.00017.00 SCREW, TRUSS HD. PHILL MACHINE, # 6-32 X 1/2 LG. 51 1 1001.00337.00 COVER, TOP, 50 13 1082.00017.00 SCREW, TRUSS HD. PHILL MACHINE, # 6-32 X 1/2 LG. 55 1 1002.00042 BREW BASKET ASS'Y., GREEN HANDLE PLUG					
26         1         1102.00243.00         ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE           27         1         1025.00046.00         TUBE, 5/8" OD X 3/8" ID X 5.0" LG, DOUBLE VALVE           28         2         1086.00018.00         HEYCO HOSE CLAMP DIA. 875-1.00           29         1         1025.00011.00         TUBE, 5/8 OD X 3/8 ID X 4.25" LG           30         2         1023.00147.00         PLUG, TANK SERVICE DRAIN FOR 18 GA AND UP BODY           31         1         1058.00024.00         SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC           32         1         1112.00246.00         WELDMENT BRACKET TERMINAL BLOCK, 3 POLE           33         1         1052.00025.00         PLATE, MARKING #BS1016E           34         1         1052.00022.00         EUROSTRIP HE10 TERMINAL BLOCK, 3 POLE, 50AMP, 18-8           35         2         1082.00082.00         SCREW, PHILLIP HD., 8-32 THREAD           36         2         1065.00009.00         GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM           37         1         1044.00013.00         LABEL EQUIPOTENTIALITY, CE           38         1         1044.00012.00         LABEL, GROUND, CE           39         1         1052.00029.00         EMI FILTER, TWO LINE 20A,120/250VAC           40					
27         1         1025.00046.00         TUBE, 5/8" OD X 3/8" ID X 5.0" LG, DOUBLE VALVE           28         2         1086.00018.00         HEYCO HOSE CLAMP DIA. 875-1.00           29         1         1025.00011.00         TUBE, 5/8 OD X 3/8 ID X 4.25" LG           30         2         1023.00147.00         PLUG, TANK SERVICE DRAIN FOR 18 GA AND UP BODY           31         1         1058.00024.00         SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC           32         1         1112.00246.00         WELDMENT BRACKET TERMINAL BLOCK, 3 POLE           33         1         1052.00025.00         PLATE, MARKING #BS1016E           34         1         1052.00022.00         EUROSTRIP HE10 TERMINAL BLOCK., 3 POLE, 50AMP, 18-8           35         2         1082.00082.00         SCREW, PHILLIP HD., 8-32 THREAD           36         2         1065.00099.00         GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM           37         1         1044.00013.00         LABEL EQUIPOTENTIALITY, CE           38         1         1044.00012.00         LABEL EQUIPOTENTIALITY, CE           39         1         1052.00029.00         EMI FILTER, TWO LINE 20A, 120/250VAC           40         2         1083.00099.00         WASHER, #6 SCREW, INTL TOOTH LOCKWASHER           41					
28 2 1086.00018.00 HEYCO HOSE CLAMP DIA875-1.00 29 1 1025.00011.00 TUBE, 5/8 OD x 3/8 ID x 4.25" LG 30 2 1023.00147.00 PLUG, TANK SERVICE DRAIN FOR 18 GA AND UP BODY 31 1 1058.00024.00 SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC 32 1 1112.00246.00 WELDMENT BRACKET TERMINAL BLOCK, 3 POLE 33 1 1052.00025.00 PLATE, MARKING #BS1016E 34 1 1052.00022.00 EUROSTRIP HE10 TERMINAL BLOCK, 3 POLE, 50AMP, 18-8 35 2 1082.00082.00 SCREW, PHILLIP HD., 8-32 THREAD 36 2 1065.00009.00 GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM 37 1 1044.00013.00 LABEL EQUIPOTENTIALITY, CE 38 1 1052.00029.00 EMI FILTER, TWO LINE 20A, 120/250VAC 40 2 1083.00009.00 WASHER, #6 SCREW, INTL TOOTH LOCKWASHER 41 2 1081.00061.00 STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD 42 1 1086.00008.00 CONNECTOR, CABLE CLAMP, 3/4" 43 4 1081.00061.00 SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P 44 1 1052.00001.00 POWER SUPPLY, 90-264VAC/24VDC, 1.8A 45 4 1029.00012.00 SPACER, 6MM OD x 5.16"ID X 13.00"LG 46 1 1025.00120.00 TUBE, 9/16"OD X 5/16"ID X 13.00"LG 47 1 1086.00001.00 CAP PLUG, PANEL, 15/32 ID x 5/8 OD, 49 1 1001.00338.00 COVER, TOP, 50 13 1082.00017.00 SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG. 51 1 1001.00337.00 COVER, UPPER BASE, 52 1 1460.00093.00 LABELLY WARNING, "HOT WATER FAUCET" 55 1 B020000G2 BREW BASKET ASS'Y., GREEN HANDLE PLUG					
29					
30					
31         1         1058.00024.00         SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC           32         1         1112.00246.00         WELDMENT BRACKET TERMINAL BLOCK, 3 POLE           33         1         1052.00022.00         PLATE, MARKING #BS1016E           34         1         1052.00022.00         EUROSTRIP HE10 TERMINAL BLOCK., 3 POLE, 50AMP, 18-8           35         2         1082.00082.00         SCREW, PHILLIP HD., 8-32 THREAD           36         2         1065.00099.00         GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM           37         1         1044.00013.00         LABEL EQUIPOTENTIALITY, CE           38         1         1044.00012.00         LABEL GROUND, CE           39         1         1052.00029.00         EMI FILTER, TWO LINE 20A, 120/250VAC           40         2         1083.00099.00         WASHER, #6 SCREW, INTL TOOTH LOCKWASHER           41         2         1081.00061.00         STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD           42         1         1086.00008.00         CONNECTOR, CABLE CLAMP, 3/4"           43         4         1081.00006.00         SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P           44         1         1052.0001.00         POWER SUPPLY, 90-264VAC/24VDC, 1.8A           45         4         <					
32         1         1112.00246.00         WELDMENT BRACKET TERMINAL BLOCK, 3 POLE           33         1         1052.00025.00         PLATE, MARKING #BS1016E           34         1         1052.00022.00         EUROSTRIP HE10 TERMINAL BLOCK., 3 POLE, 50AMP, 18-8           35         2         1082.00082.00         SCREW, PHILLIP HD., 8-32 THREAD           36         2         1065.00009.00         GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM           37         1         1044.00013.00         LABEL EQUIPOTENTIALITY, CE           38         1         1044.00012.00         LABEL GROUND, CE           39         1         1052.00029.00         EMI FILTER, TWO LINE 20A,120/250VAC           40         2         1083.00009.00         WASHER, #6 SCREW, INTL TOOTH LOCKWASHER           41         2         1081.00061.00         STANDOFF, 1/4 HEX x1 1/4 LG., #6-32 THREAD           42         1         1086.00008.00         CONNECTOR, CABLE CLAMP, 3/4"           43         4         1081.00066.00         SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P           44         1         1052.00012.00         SPACER, 16MM OD x 3.2MM ID x 5MM LG, Z/P           44         1         1052.00012.00         SPACER, 2.5" HEX X 1" LG, FEM #4-40 THREAD           45         4					
33         1         1052.00025.00         PLATE, MARKING #BS1016E           34         1         1052.00022.00         EUROSTRIP HE10 TERMINAL BLOCK., 3 POLE, 50AMP, 18-8           35         2         1082.00082.00         SCREW, PHILLIP HD., 8-32 THREAD           36         2         1065.00009.00         GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM           37         1         1044.00013.00         LABEL EQUIPOTENTIALITY, CE           38         1         1044.00012.00         LABEL EQUIPOTENTIALITY, CE           39         1         1052.00029.00         EMI FILTER, TWO LINE 20A,120/250VAC           40         2         1083.0009.00         WASHER, #6 SCREW, INTL TOOTH LOCKWASHER           41         2         1081.00061.00         STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD           42         1         1086.0008.00         CONNECTOR, CABLE CLAMP, 3/4"           43         4         1081.0006.00         SPACER, 6MM OD x.2MM ID x 5MM LG, Z/P           44         1         1052.00001.00         POWER SUPPLY, 90-264VAC/24VDC, 1.8A           45         4         1029.00012.00         SPACER, 25" HEX X 1" LG, FEM #4-40 THREAD           46         1         1025.0012.00         TUBE, 9/16"OD X 5/16"ID X 13.00"LG           47         1         1					
34         1         1052.00022.00         EUROSTRIP HE10 TERMINAL BLOCK., 3 POLE, 50AMP, 18-8           35         2         1082.00082.00         SCREW, PHILLIP HD., 8-32 THREAD           36         2         1065.00009.00         GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM           37         1         1044.00012.00         LABEL EQUIPOTENTIALITY, CE           38         1         1044.00012.00         LABEL GROUND, CE           39         1         1052.00029.00         EMI FILTER, TWO LINE 20A, 120/250VAC           40         2         1083.00009.00         WASHER, #6 SCREW, INTL TOOTH LOCKWASHER           41         2         1081.00061.00         STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD           42         1         1086.00008.00         CONNECTOR, CABLE CLAMP, 3/4"           43         4         1081.0006.00         SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P           44         1         1052.000010.00         POWER SUPPLY, 90-264VAC/24VDC, 1.8A           45         4         1029.00012.00         SPACER, 25" HEX X 1" LG, FEM #4-40 THREAD           46         1         1025.00120.00         SPACER, 25" HEX X 1" LG, FEM #4-40 THREAD           47         1         1086.00047.00         CAPPLUG, PANEL, 15/32 ID x 5/8 OD,           49         1 <td></td> <td></td> <td></td> <td></td>					
35         2         1082.00082.00         SCREW, PHILLIP HD., 8-32 THREAD           36         2         1065.00009.00         GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM           37         1         1044.00013.00         LABEL EQUIPOTENTIALITY, CE           38         1         1044.00012.00         LABEL GROUND, CE           39         1         1052.00029.00         EMI FILTER, TWO LINE 20A,120/250VAC           40         2         1083.00009.00         WASHER, #6 SCREW, INTL TOOTH LOCKWASHER           41         2         1081.00061.00         STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD           42         1         1086.00008.00         CONNECTOR, CABLE CLAMP, 3/4"           43         4         1081.0006.00         SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P           44         1         1052.00001.00         POWER SUPPLY, 90-264VAC/24VDC, 1.8A           45         4         1029.00012.00         SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD           46         1         1025.00120.00         TUBE, 9/16"OD X 5/16"ID X 13.00"LG           47         1         1086.00001.00         CLAMP, HOSE, 15.0-17.2 DIA RANGE           48         2         1086.00001.00         CAP PLUG, PANEL, 15/32 ID x 5/8 OD,           49         1         1001.00337.0		1		·	
36         2         1065.0009.00         GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM           37         1         1044.00013.00         LABEL EQUIPOTENTIALITY, CE           38         1         1044.00012.00         LABEL GROUND, CE           39         1         1052.00029.00         EMI FILTER, TWO LINE 20A,120/250VAC           40         2         1083.00009.00         WASHER, #6 SCREW, INTL TOOTH LOCKWASHER           41         2         1081.00061.00         STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD           42         1         1086.00008.00         CONNECTOR, CABLE CLAMP, 3/4"           43         4         1081.00006.00         SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P           44         1         1052.00001.00         POWER SUPPLY, 90-264VAC/24VDC, 1.8A           45         4         1029.00012.00         SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD           46         1         1025.00120.00         TUBE, 9/16"OD X 5/16"ID X 13.00"LG           47         1         1086.00001.00         CLAMP, HOSE, 15.0-17.2 DIA RANGE           48         2         1086.00047.00         CAP PLUG, PANEL, 15/32 ID x 5/8 OD,           50         13         1082.00017.00         SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.           51         1	35	2			
37         1         1044.00013.00         LABEL EQUIPOTENTIALITY, CE           38         1         1044.00012.00         LABEL GROUND, CE           39         1         1052.00029.00         EMI FILTER, TWO LINE 20A,120/250VAC           40         2         1083.00009.00         WASHER, #6 SCREW, INTL TOOTH LOCKWASHER           41         2         1081.00061.00         STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD           42         1         1086.00008.00         CONNECTOR, CABLE CLAMP, 3/4"           43         4         1081.00006.00         SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P           44         1         1052.00001.00         POWER SUPPLY, 90-264VAC/24VDC, 1.8A           45         4         1029.00012.00         SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD           46         1         1025.00120.00         TUBE, 9/16"OD X 5/16"ID X 13.00"LG           47         1         1086.00001.00         CLAMP, HOSE, 15.0-17.2 DIA RANGE           48         2         1086.000047.00         CAP PLUG, PANEL, 15/32 ID x 5/8 OD,           49         1         1001.00338.00         COVER, TOP,           50         13         1082.00017.00         SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.           51         1         1001.00337.00					
38         1         1044.00012.00         LABEL GROUND, CE           39         1         1052.00029.00         EMI FILTER, TWO LINE 20A,120/250VAC           40         2         1083.00009.00         WASHER, #6 SCREW, INTL TOOTH LOCKWASHER           41         2         1081.00061.00         STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD           42         1         1086.00008.00         CONNECTOR, CABLE CLAMP, 3/4"           43         4         1081.0006.00         SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P           44         1         1052.00001.00         POWER SUPPLY, 90-264VAC/24VDC, 1.8A           45         4         1029.00012.00         SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD           46         1         1025.00120.00         TUBE, 9/16"OD X 5/16"ID X 13.00"LG           47         1         1086.00001.00         CLAMP, HOSE, 15.0-17.2 DIA RANGE           48         2         1086.00047.00         CAP PLUG, PANEL, 15/32 ID x 5/8 OD,           49         1         1001.00338.00         COVER, TOP,           50         13         1082.00017.00         SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.           51         1         1001.00337.00         COVER, UPPER BASE,           52         1         1402.00093.00					
39         1         1052.00029.00         EMI FILTER, TWO LINE 20A,120/250VAC           40         2         1083.00009.00         WASHER, #6 SCREW, INTL TOOTH LOCKWASHER           41         2         1081.00061.00         STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD           42         1         1086.00008.00         CONNECTOR, CABLE CLAMP, 3/4"           43         4         1081.00006.00         SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P           44         1         1052.00001.00         POWER SUPPLY, 90-264VAC/24VDC, 1.8A           45         4         1029.00012.00         SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD           46         1         1025.00120.00         TUBE, 9/16"OD X 5/16"ID X 13.00"LG           47         1         1086.00001.00         CLAMP, HOSE, 15.0-17.2 DIA RANGE           48         2         1086.00047.00         CAP PLUG, PANEL, 15/32 ID x 5/8 OD,           49         1         1001.00338.00         COVER, TOP,           50         13         1082.00017.00         SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.           51         1         1001.00337.00         COVER, UPPER BASE,           52         1         1402.00093.00         HARNESS, UNIVERSAL,           53         1         1102.00344.00					
40         2         1083.00009.00         WASHER, #6 SCREW, INTL TOOTH LOCKWASHER           41         2         1081.00061.00         STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD           42         1         1086.00008.00         CONNECTOR, CABLE CLAMP, 3/4"           43         4         1081.00006.00         SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P           44         1         1052.00001.00         POWER SUPPLY, 90-264VAC/24VDC, 1.8A           45         4         1029.00012.00         SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD           46         1         1025.00120.00         TUBE, 9/16"OD X 5/16"ID X 13.00"LG           47         1         1086.00001.00         CLAMP, HOSE, 15.0-17.2 DIA RANGE           48         2         1086.00047.00         CAP PLUG, PANEL, 15/32 ID x 5/8 OD,           49         1         1001.00338.00         COVER, TOP,           50         13         1082.00017.00         SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.           51         1         1001.00337.00         COVER, UPPER BASE,           52         1         1402.00093.00         HARNESS, UNIVERSAL,           53         1         1102.00344.00         ASSEMBLY, FRONT COVER,           54         2         1046.00006.00         LABEL, WA		1			
41       2       1081.00061.00       STANDOFF, 1/4 HEX x 1 1/4 LG., #6-32 THREAD         42       1       1086.00008.00       CONNECTOR, CABLE CLAMP, 3/4"         43       4       1081.00006.00       SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P         44       1       1052.00001.00       POWER SUPPLY, 90-264VAC/24VDC, 1.8A         45       4       1029.00012.00       SPACER, 25" HEX X 1" LG, FEM #4-40 THREAD         46       1       1025.00120.00       TUBE, 9/16"OD X 5/16"ID X 13.00"LG         47       1       1086.00001.00       CLAMP, HOSE, 15.0-17.2 DIA RANGE         48       2       1086.00047.00       CAP PLUG, PANEL, 15/32 ID x 5/8 OD,         49       1       1001.00338.00       COVER, TOP,         50       13       1082.00017.00       SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.         51       1       1001.00337.00       COVER, UPPER BASE,         52       1       1402.00093.00       HARNESS, UNIVERSAL,         53       1       1102.00344.00       ASSEMBLY, FRONT COVER,         54       2       1046.00006.00       LABEL, WARNING, "HOT WATER FAUCET"         55       1       B020000G2       BREW BASKET ASS'Y., GREEN HANDLE PLUG		2			
42       1       1086.00008.00       CONNECTOR, CABLE CLAMP, 3/4"         43       4       1081.00006.00       SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P         44       1       1052.0001.00       POWER SUPPLY, 90-264VAC/24VDC, 1.8A         45       4       1029.00012.00       SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD         46       1       1025.00120.00       TUBE, 9/16"OD X 5/16"ID X 13.00"LG         47       1       1086.00001.00       CLAMP, HOSE, 15.0-17.2 DIA RANGE         48       2       1086.00047.00       CAP PLUG, PANEL, 15/32 ID x 5/8 OD,         49       1       1001.00338.00       COVER, TOP,         50       13       1082.00017.00       SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.         51       1       1001.00337.00       COVER, UPPER BASE,         52       1       1402.00093.00       HARNESS, UNIVERSAL,         53       1       1102.00344.00       ASSEMBLY, FRONT COVER,         54       2       1046.00006.00       LABEL, WARNING, "HOT WATER FAUCET"         55       1       B020000G2       BREW BASKET ASS'Y., GREEN HANDLE PLUG		2		· · · · · · · · · · · · · · · · · · ·	
43       4       1081.00006.00       SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P         44       1       1052.00001.00       POWER SUPPLY, 90-264VAC/24VDC, 1.8A         45       4       1029.00012.00       SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD         46       1       1025.00120.00       TUBE, 9/16"OD X 5/16"ID X 13.00"LG         47       1       1086.00001.00       CLAMP, HOSE, 15.0-17.2 DIA RANGE         48       2       1086.00047.00       CAP PLUG, PANEL, 15/32 ID x 5/8 OD,         49       1       1001.00338.00       COVER, TOP,         50       13       1082.00017.00       SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.         51       1       1001.00337.00       COVER, UPPER BASE,         52       1       1402.00093.00       HARNESS, UNIVERSAL,         53       1       1102.00344.00       ASSEMBLY, FRONT COVER,         54       2       1046.00006.00       LABEL, WARNING, "HOT WATER FAUCET"         55       1       B020000G2       BREW BASKET ASS'Y., GREEN HANDLE PLUG				' '	
44       1       1052.00001.00       POWER SUPPLY, 90-264VAC/24VDC, 1.8A         45       4       1029.00012.00       SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD         46       1       1025.00120.00       TUBE, 9/16"OD X 5/16"ID X 13.00"LG         47       1       1086.00001.00       CLAMP, HOSE, 15.0-17.2 DIA RANGE         48       2       1086.00047.00       CAP PLUG, PANEL, 15/32 ID x 5/8 OD,         49       1       1001.00338.00       COVER, TOP,         50       13       1082.00017.00       SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.         51       1       1001.00337.00       COVER, UPPER BASE,         52       1       1402.00093.00       HARNESS, UNIVERSAL,         53       1       1102.00344.00       ASSEMBLY, FRONT COVER,         54       2       1046.00006.00       LABEL, WARNING, "HOT WATER FAUCET"         55       1       B020000G2       BREW BASKET ASS'Y., GREEN HANDLE PLUG					
45       4       1029.00012.00       SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD         46       1       1025.00120.00       TUBE, 9/16"OD X 5/16"ID X 13.00"LG         47       1       1086.00001.00       CLAMP, HOSE, 15.0-17.2 DIA RANGE         48       2       1086.00047.00       CAP PLUG, PANEL, 15/32 ID x 5/8 OD,         49       1       1001.00338.00       COVER, TOP,         50       13       1082.00017.00       SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.         51       1       1001.00337.00       COVER, UPPER BASE,         52       1       1402.00093.00       HARNESS, UNIVERSAL,         53       1       1102.00344.00       ASSEMBLY, FRONT COVER,         54       2       1046.00006.00       LABEL, WARNING, "HOT WATER FAUCET"         55       1       B020000G2       BREW BASKET ASS'Y., GREEN HANDLE PLUG				·	
46       1       1025.00120.00       TUBE, 9/16"OD X 5/16"ID X 13.00"LG         47       1       1086.00001.00       CLAMP, HOSE, 15.0-17.2 DIA RANGE         48       2       1086.00047.00       CAP PLUG, PANEL, 15/32 ID x 5/8 OD,         49       1       1001.00338.00       COVER, TOP,         50       13       1082.00017.00       SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.         51       1       1001.00337.00       COVER, UPPER BASE,         52       1       1402.00093.00       HARNESS, UNIVERSAL,         53       1       1102.00344.00       ASSEMBLY, FRONT COVER,         54       2       1046.00006.00       LABEL, WARNING, "HOT WATER FAUCET"         55       1       B020000G2       BREW BASKET ASS'Y., GREEN HANDLE PLUG					
47         1         1086.00001.00         CLAMP, HOSE, 15.0-17.2 DIA RANGE           48         2         1086.00047.00         CAP PLUG, PANEL, 15/32 ID x 5/8 OD,           49         1         1001.00338.00         COVER, TOP,           50         13         1082.00017.00         SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.           51         1         1001.00337.00         COVER, UPPER BASE,           52         1         1402.00093.00         HARNESS, UNIVERSAL,           53         1         1102.00344.00         ASSEMBLY, FRONT COVER,           54         2         1046.00006.00         LABEL, WARNING, "HOT WATER FAUCET"           55         1         B020000G2         BREW BASKET ASS'Y., GREEN HANDLE PLUG					
48       2       1086.00047.00       CAP PLUG, PANEL, 15/32 ID x 5/8 OD,         49       1       1001.00338.00       COVER, TOP,         50       13       1082.00017.00       SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.         51       1       1001.00337.00       COVER, UPPER BASE,         52       1       1402.00093.00       HARNESS, UNIVERSAL,         53       1       1102.00344.00       ASSEMBLY, FRONT COVER,         54       2       1046.00006.00       LABEL, WARNING, "HOT WATER FAUCET"         55       1       B020000G2       BREW BASKET ASS'Y., GREEN HANDLE PLUG					
49       1       1001.00338.00       COVER, TOP,         50       13       1082.00017.00       SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.         51       1       1001.00337.00       COVER, UPPER BASE,         52       1       1402.00093.00       HARNESS, UNIVERSAL,         53       1       1102.00344.00       ASSEMBLY, FRONT COVER,         54       2       1046.00006.00       LABEL, WARNING, "HOT WATER FAUCET"         55       1       B020000G2       BREW BASKET ASS'Y., GREEN HANDLE PLUG					
50         13         1082.00017.00         SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.           51         1         1001.00337.00         COVER, UPPER BASE,           52         1         1402.00093.00         HARNESS, UNIVERSAL,           53         1         1102.00344.00         ASSEMBLY, FRONT COVER,           54         2         1046.00006.00         LABEL, WARNING, "HOT WATER FAUCET"           55         1         B020000G2         BREW BASKET ASS'Y., GREEN HANDLE PLUG					
51         1         1001.00337.00         COVER, UPPER BASE,           52         1         1402.00093.00         HARNESS, UNIVERSAL,           53         1         1102.00344.00         ASSEMBLY, FRONT COVER,           54         2         1046.00006.00         LABEL, WARNING, "HOT WATER FAUCET"           55         1         B020000G2         BREW BASKET ASS'Y., , GREEN HANDLE PLUG					
52         1         1402.00093.00         HARNESS, UNIVERSAL,           53         1         1102.00344.00         ASSEMBLY, FRONT COVER,           54         2         1046.00006.00         LABEL, WARNING, "HOT WATER FAUCET"           55         1         B020000G2         BREW BASKET ASS'Y., , GREEN HANDLE PLUG					
53         1         1102.00344.00         ASSEMBLY, FRONT COVER,           54         2         1046.00006.00         LABEL, WARNING, "HOT WATER FAUCET"           55         1         B020000G2         BREW BASKET ASS'Y., , GREEN HANDLE PLUG					
54         2         1046.00006.00         LABEL, WARNING, "HOT WATER FAUCET"           55         1         B020000G2         BREW BASKET ASS'Y., , GREEN HANDLE PLUG					
55 1 B020000G2 BREW BASKET ASS'Y., , GREEN HANDLE PLUG					
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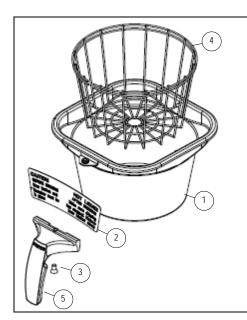


Drawing 1104.00143.00 TANK ASSEMBLY, 3kW/240VAC, CBS-2111

Drawing 1104.00145.00 TAINT AGGEMBET, SKWZ40VAG, GBG-2111			
Ref#	Qty	Part number	Description
1	1	1114.00145.00	WELDMENT, TANK, TBS-2111
2	4	1024.00050.00	GROMMET, SILICONE, 11.4mm ID
3	2	1023.00167.00	FITTING, BREW, GROMMET DESIGN
4	1	1023.00168.00	FITTING, HOT WATER, GROMMET DESIGN
5	1	1107.00018.00	HEATER ASSEMBLY, IMMERSION 3000W/240VAC
6	2	1024.00053.00	LEVEL AND TEMP PROBE GROMMET
7	1	1112.00002.00	PROBE WELDMENT, WATER LEVEL 2.25" LG
8	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, HWD-2100
9	1	1024.00062.00	GROMMET, SHORT, SILICONE, LEVEL AND TEMP PROBE
10	1	1029.00023.00	FITTING, SINGLE BARBED ELBOW, 1/4", KYNAR
11	1	1003.00005.00	BRACKET, ONE SHOT THERMOSTAT
12	1	1053.00004.00	THERMOSTAT, SINGLE SHOT, 25A
13	2	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
14	2	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
15	1	1024.00007.00	O-RING, DASH #344, TANK COVER
16	1	1102.00007.00	TANK COVER ASSEMBLY
17	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN
18	1	1003.00140.00	ALUMINUM BRACKET FOR SSR
19	1	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR
20	2	1081.00042.00	STANDOFF, 1/4" HEX
21	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE
22	1	1022.00101.00	BACK INSULATION, TANK, TBS-2111
23	1	1022.00102.00	FRONT INSULATION, TANK, TBS-2111



1102	1102.00203.01 Small Spray Assembly Parts CBS-2111XTS			
REF	EF QTY PART NUMBER		DESCRIPTION	
1	1	1102.00020.01	SPRAY ASSEMBLY-NO VENT	
2	1	1102.00019.00	CASCADE SPRAY DOME	
3	1	1023.00295.00	SPRAY HEAD ADAPTER	
4	1	1023.00252.00	COIL ADAPTER	
5	1	1024.00002.00	O-RING	
6	1	1057.00072.00	DISPENSE COIL, 24VDC	
7	2	1082.00068.00	SCREW M3.9X13 CHEESE PH. T/FORM	
8	4	1082.00069.00	SCREW, 8-18 x 1/2", SS, TF/PH/PHIL	
9	1	1057.00038.00	DIAPHRAGM	
10	1	1057.00040.00	PLUNGER	
11	1	1057.00051.00	CONICAL SPRING	
12	1	1024.00063.00	O-RING,LOWER 3 15/16" X 3/32"	

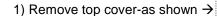


	CBS-2111XTS Stainless Steel Brew Basket		
Ref#	Qty	Part Number	Description
+		B001280B1	COMPLETE STAINLESS STEEL BREW BASKET
1	1	1112.00058.00	BREW BASKET WELDMENT (CONE ONLY)
2	1	1046.00025.00	BREW BASKET WARNING LABEL
3	1	1082.00040.00	SCREW,1/4-20X.5,FL-HD,PH.,W/NYLON PATCH
4	1	1009.00005.00	WIRE BASKET
5	1	1102.00064.00	HANDLE W/MAGNET ASSEMBLY, BLACK
Optional colored handle		1102.00065.00	HANDLE W/MAGNET ASSEMBLY, RED
Optional colored handle		1102.00066.00	HANDLE W/MAGNET ASSEMBLY, GREEN
Optional colored handle		1102.00067.00	HANDLE W/MAGNET ASSEMBLY, ORANGE

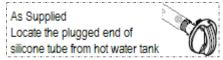
## Hot water service faucet, if required by operator, is installed before initial set-up

CBS-2111XTS is supplied with part number 1000.00109.00 hot water faucet accessory set.

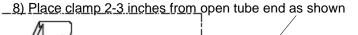
→ Professional installation is required. Do not connect water or electrical utilities before installing.

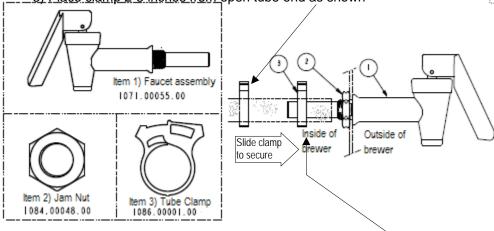


- 2) Remove the 16mm/5/8" round plug from the enclosure Select either the left or right side-(left side shown)
- 3) From outside of brewer-Install faucet assembly
- 4) From inside of brewer-Thread jam nut on faucet stub.
- 5) Tighten jam nut firmly against enclosure wall
- 6) Locate plugged hot water supply silicone tube.



7) Remove plug from hot water supply silicone tube





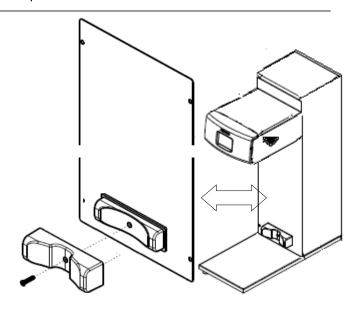
- 9) Push open end of silicone tube over faucet stub
- 10) Slide clamp over tube and secure. Tube and clamp must be secure
- 11) Fill brewer and test faucet-check for leaks and reinstall top cover

## **Configurable Dispenser Locator**

Factory configured for 7 inch dispenser

## To Configure for wider dispensers:

Remove screw and 7 inch adapter as shown



'Remove top cover

Remove 16mm/5/8" round plug from left

L\_\_ or right side