FETCO USER'S GUIDE & OPERATOR INSTRUCTIONS

FETCO COFFEE BREWER: CBS-1150 EXTRACTOR® V+™





CBS-1151-XV+

CBS-1152-XV+

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MARCH 2018

Specifications and Requirements

Water Requirements:

CBS-1150 XV+ 20-75 psig, (138-517kPa) 1½gpm/(5.7lpm) Water supplied to hot beverage equipment should be filtered

Water supplied Hardness >100 TDS (5.5 grain)

Water inlet fitting: 3/8 inch male flare.
Brew Volume: Full Batch 1 ½ gallon/ 6 liters

Coffee Filter Size:

15" X 5 ½ "- standard FETCO # F001

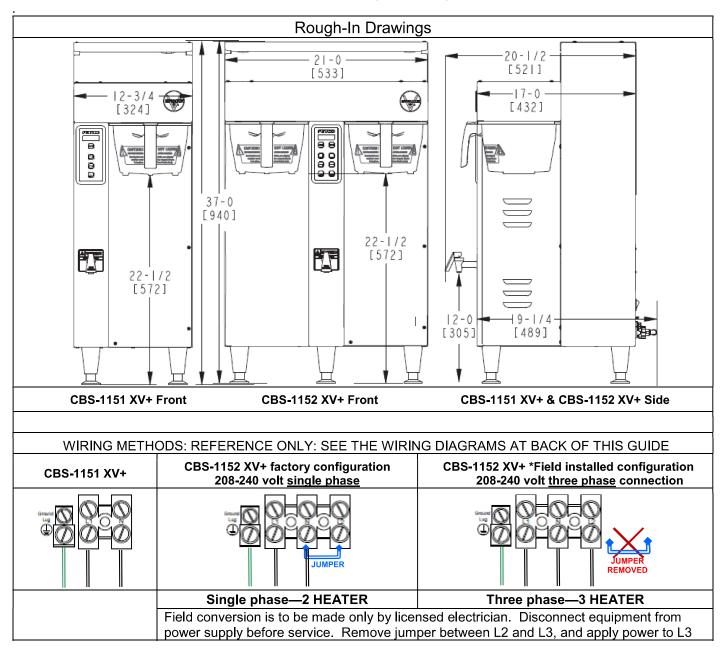
Temperature, as set by factory:

200°F (93°C) inside water tank (at sea level) **Electrical**: See electrical configuration chart.

Total Brew Cycle: Factory setting: 5.5 minutes consisting of 4 minute brew time + 1.5 minute drip delay

Brew-Process parameters are user controllable for:

Brew Volume, Brew Time, Prewet Percent and Prewet Delay, Drip Delay



Electrical and Output Specifications for CBS-1151 XV+ Single 1½ Gallon-6 Liter Coffee Brewers									
Domestic US	Domestic USA and Canada CBS-1151 XV+ Standard-Voltage With cUL/UL & NSF-4 Certification								
Configuration Codes	Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew- Volume/Hour	
E115151	2 X 3.0 kW	208-240	1	2+G	Terminal Block	4.6-6.1	22.4-25.8	15.3 gal/58 liters	
Domestic & I	nternational Ver	sions C	BS-1151	XV+ With	n cUL/UL & NSF-	4 Certifica	ation		
E115190	1 X 4.0 kW	200-240	1	2+G	Terminal Block	4.1	14.2-17.1	9.3 gal/35 liters	
E115191	1 X 5.0 kW	200-240	1	2+G	Terminal Block	5.1	17.7-21.3	12.7 gal/48 liters	
E115192	2 X 3.0 kW	200-240	1	2+G	Terminal Block	6.1	21.3-25.5	15.3 gal/58 liters	
E115193	2 X 2.3 kW	200-240	1	2+G	Terminal Block	4.7-6.1	22.1-25.5	14.0 gal/53 liters	
Export CBS-	1151XV+	V	/ith cUL/	UL & NSF-	4 Certification				
E115180	1 X 5.0 kW	200-240	1	2+G	Terminal Block	3.6	17.7	11.6 gal/44liters	
CE With Inte	CE With Internal EMI Filter. CBS-1151 XV+ With CE & NSF-4 certification. Not cUL or UL Listed								
(CE) E115162	2 X 2.3 kW	230/400	2	2L,N,PE	Terminal Block	5.6	12.4	14.0 gal/53 liters	
(CE) E115161	2 X 3.0 kW	230/400	2	2L,N,PE	Terminal Block	6.1	21.3-25.5	15.3 gal/58 liters	

Electrical and Output Specifications-for CBS-1152 XV+ Twin 1½ Gallon-6 Liter Coffee Brewers								
USA and Can	ada	C	BS-1152	2 XV+ Fie	ld Selectable Elec	trical With	cUL/UL & NS	SF-4 Certification
Configuration Codes	Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew- Volume/Hour
E115251	2 X 3.0 kW	200-240	1	2+G	Terminal Block	4.6-6.1	22.4-25.8	15.3 gal/58 liters
Selectable Sold as1 phase	3 X 3.0 kW	200-240	3	3+G	Terminal Block	6.9-9.1	19.5-22.5	22.5 gal/85 liters
E115252	2 X 5.0 kW	200-240	1	2+G	Terminal Block	7.6-10.1	36.9-42.5	25.3 gal/97 liters
Selectable Sold as1 phase	3 X 5.0 kW	200-240	3	3+G	Terminal Block	11.4-15.1	32.0-36.9	38.3 gal/145 liters
Domestic & Ir	nternational Ver	sions (CBS-115	2 XV+ St	andard-Voltage V	Vith cUL/UI	_ & NSF-4 C	ertification
E115292	2 X 3.0 kW	200-240	1	2+G	Terminal Block	4.6-6.1	22.4-25.8	15.3 gal/58 liters
E115294	2 X 5.0 kW	200-240	1	2+G	Terminal Block	7.6-10.1	36.9-42.5	25.3 gal/97 liters
E115296	3 X 4.0 kW	240/415	3	4+G	Terminal Block	12.2	15.7-17.1	29.5 gal/112liters
E115290	3 X 3.0 kW	220/380 or 240/415	3	4+G	Terminal Block	9.1	11.8-12.9	22.5 gal/85 liters
E115291	3 X 5.0 kW	220/380 or 240/415	3	4+G	Terminal Block	15.1	19.5-21.4	38.3 gal/145 liters
Export CBS-1152 XV+ With cUL/UL & NSF-4 Certification								
E115280	3 X 3.0 kW	200	3	3+G	Terminal Block	6.5	18.6	17 gal/64 liters
CE With Inter	CE With Internal EMI Filter. CBS-1152 XV+ With CE & NSF-4 Certification. Not cUL or UL Listed							
(CE) E115261	3 X 3.0 kW	230/400	3	3L,N,PE	Terminal Block	8.6	12.4	22.5 gal/85 liters
(CE) E115262	3 X 5.0 kW	230/400	3	3L,N,PE	Terminal Block	14.1	20.4	38.3 gal/145 liters

Starting The Brew

- 1. Turn the power switch "ON". (Twin Shown)
- 2. Prepare a brew basket with the correct size filter and appropriate amount of coffee.
- 3. Slide the brew basket completely into the rails.
- 4. Place a clean, empty, preheated dispenser under the brew basket.
- 5. Select a batch & hold the corresponding BREW button in for 1 second to start
- 6. -STOP button will illuminate,
 - -Countdown time will display,
 - -Selected BREW button will flash to indicate brew is in progress.
 - -All other BREW buttons for that brew head will extinguish.
- 7. When the brew cycle is finished,

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 brew basket For safety- do not remove brew basket until drip-out is complete.





READY

STOP

BREW

05:30

STOP

Enter Programming

Screens shown are for twin brewer. Single brewer will not have menu A4-A6.

There are five menu groups-A-E. See the following pages for the batch parameter definitions and all settings for the brewer

TO ENTER PROGAMMING

- 1-Turn brewer "OFF" from power switch
- 2-Turn power switch to "ON"

READY

STOP

READY

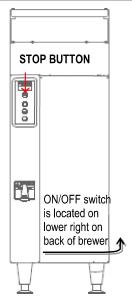
- ...Screen will initialize and then display digital process notifications
- 3-After Initialization-Red "STOP" Lamp turns on 4-Quickly hold down "STOP" button for 5 seconds
 - When brewer is In PROGRAMMING MODE

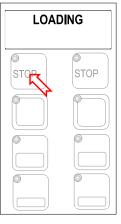
-the screen will display:

IBATCH PRGI

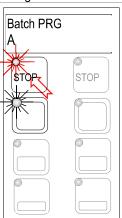
-Illuminated LED indicates active keypad positions

See the following pages for batch parameter definitions and all settings for the brewer



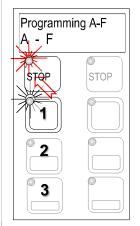


Turn power OFF Turn power ON Wait for red LED PRESS STOP BUTTON (no need to hold)

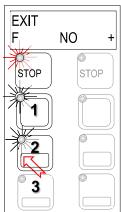


First screen will display <u>Batch PROGAMMING-A</u> Scroll through main menu topics A-F by pressing "STOP" button.

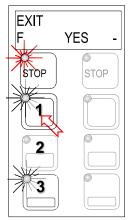
Exit Programming & Save Control Setting Changes



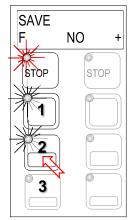
From any screen-Press STOP button until the EXIT ("F") screen appears



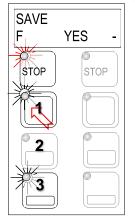
From the "F" screen
Press button 2 to
toggle to the EXITYES screen



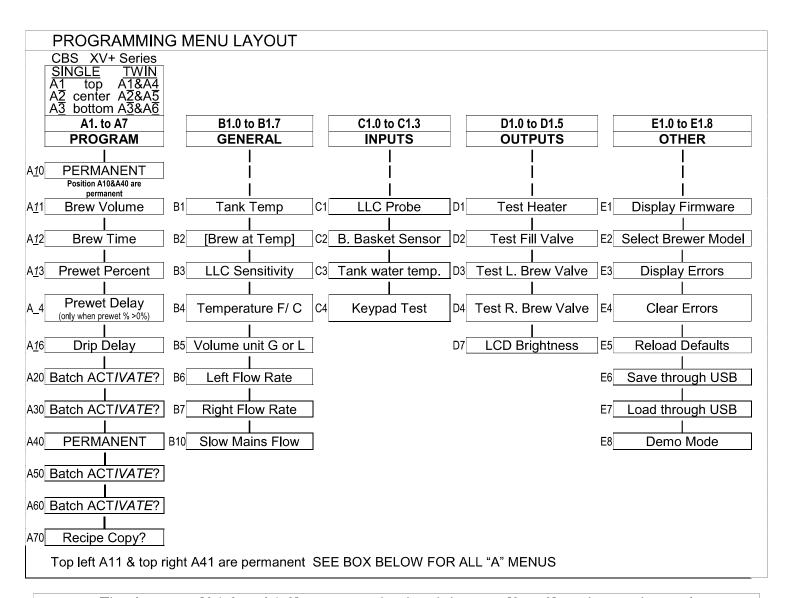
From EXIT screen
Press button 1 to
toggle to the SAVE
screen

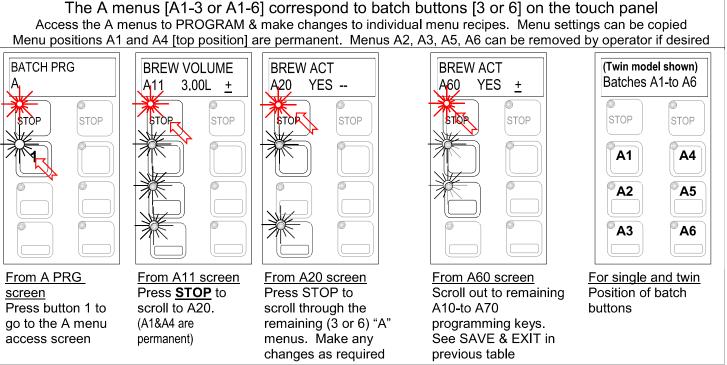


From SAVE screen
Press button 2 to
toggle to the SAVEYES screen



To SAVE and EXIT
Press button 1 to
SAVE your changes
and EXIT to
OPERATING MODE





A PROGRAM Menu Features: Batch Parameters

The settings below are shown for the top batch on a single brewer top left button on a twin brewer.

See how to access all A menus on the previous page. Below are the brew settings for default A1 & A2 batches

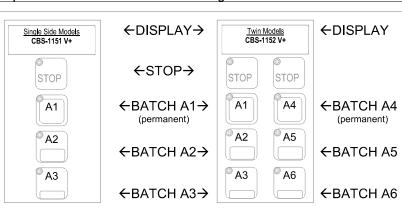
POSITION F	Program Items	Factory set			
	i rogram (tems	Default	Programming Range	Increments	Notes
A11 B	Satch Volume	1.5 gal 5.65 liters	0.50 to 2.00 gal 1.90 to 7.60L	0.01G 0.05L	Unit software is in liters; converts to gallon
Δ1/	Brew Time MIN:SEC)	4:00 minutes	2:00 — 12:00	0.30	Default total brew time is 5:30 minutes
A13 P	rewet Perc.	0%	0.00 – 15.0%	1%	Percentage of total brew volume
Λ1/	Prewet Delay Pause after prewet completes)	0% [1:00 Min]	[0:10 – 5:00]	1:00 min	The time between prewetting and start of brew cycle. This feature appears ONLY if Prewet >0:00
A16 D	Orip Delay	1:30 mm:ss	0:30 – 6:00 Min.		Time brew basket should remain in place during final drip-out →Drip delay remains "ON" for 1:30 minutes if STOP is pressed during brew†
A20	BATCH ACT A20 YES - NO +	YES (Active)	Middle and Bottom batches A2,3,5,6	Batch on or off	Batches may be individually enabled, rewritten or deactivated
A21 B	Satch Volume	1.5 gal 5.65 liters	0.50 to 2.00 gal 1.90 to 7.60L	0.01G 0.05L	Unit software is in liters; converts to gallon
	Brew Time MIN:SEC)	4:00 minutes	2:00 — 12:00	0.30	Default total brew time is 5:30 minutes
A23 P	rewet Perc.	0%	0.00 - 15.0%	1%	Percentage of total brew volume
A24 (P	Prewet Delay Pause after prewet ompletes)	0% [1:00 Min]	[0:10 – 5:00]	1:00 min	The time between prewetting and start of brew cycle. This feature appears ONLY if Prewet >0:00
	Orip Delay	1:30 mm:ss	0:30 — 6:00 Min.		Time brew basket should remain in place during final drip-out →Drip delay remains "ON" for 1:30 minutes if STOP is pressed during brew†
Batch Copy Co	opy From Batch	A71	A71 1 (1-6)		
Datell Copy Oc					

CBS-1151V+Topmost Batch cannot be disabled. CBS-1152V+Topmost Batch LEFT & RIGHT cannot be disabled. Middle and bottom batches may be disabled for single and twin brewer (CBS-1151 XV+ and CBS-1152 XV+) † **DRIP DELAY** will not activate when STOP is pressed within 5 seconds of starting a brew time

RECIPE Location map

Viewing and changing settings for the brew recipes is from the "A" screens with the controls in PROGRAMMING.

The uppermost button positions are permanent and will not display programming step A_0. The table above shows in position A20 that a button position can be made active or inactive. Position A1 does not display this step



B GENERAL Brewer Operation Control Settings, Adjust Brew Flow Rate							
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes		
B1	Tank Temp.	93° C -or- 200°F NOTE: Equipment is metric by default	70° to 96°C 157°F to 205°F	0.5°C 1.0°F	See below for chart to correct for high altitude		
B2	Brew at Temp.	"YES"	ON/OFF	YES/NO	SEE NOTE BELOW		
В3	LLC Sensitivity	LOW	LOW is "normal" for most water "HIGH" for R.O.	LOW or HIGH	Liquid level control sensitivity. High,1300Ω is for reverse osmosis water or very pure water.		
B4	Temperature Scale	°F Fahrenheit	Celsius Fahrenheit	C/F	NOTE: Overwrites user settings (see page 9)		
B5	Volume Scale	G Gallons	Gallons/Liters	L/Gal	NOTE: Overwrites user settings (see page 9)		
В6	LEFT brew valve F.R. is in Liters/Min	CBS-1152 3.40L/0.9G	2.9-3.9Liter 0.73- 1.01Gallon	0.50L 0.01Gal	Adjusts flow rate		
В7	RIGHT brew valve F.R. is in Liters/Min	CBS-1151&1152 3.40L/0.9G	2.9-3.9Liter 0.73- 1.01Gallon	0.50L 0.01Gal	Adjusts flow rate		
B10	Low flow rate from mains	NO	OFF/ON	Toggle +/- YES or NO	Trims fill system for low supply		

Use this formula to compensate for minor discrepancies in actual volume versus programmed volume

Measured VolumeXCurrent Setting=New SettingUse this formula to determine flow rate to compensate for minor discrepancies in actual volume versus programmed volume. Enter new setting in B6 or B7

Use the formula above to compensate and fine-tune brew volume. Brew valve and bypass valve flow rates are in liter/min. Enter the brew valve New Setting value into B6/B7 and save as in the "F" screen (Brew volume is set at position A11) HINT: Set lower to increase volume, higher to decrease volume. TIP: Always check flow from supply for fouled water filter

BREW AT TEMPERATURE DEFINITIONS

Ī	DEFAULT: BREW AT TEMP: "ON"		
	(FACTORY DEFAULT FOR BREWER)		
	"BREW at TEMP:	Hot water tank not at	
	-Batch will not start if tank temperature	brew temp setpoint.	
	is below set point.		LIEATING
	-Display will show "HEATING"	Tank temp→	HEATING
	and hot water tank temperature	STOP is not lit →	160°F
	The "BREW START" entry buttons will not	DDE\M STADT	STOP STOP
	illuminate until the hot water tank reaches the	buttons not lit.	=
	selected temperature.	and are disabled.	
	Controls allow both sides of dual brewer to	Buttons will	
	operate if one side has an ongoing brew	illuminate "READY"	
	started and the second side brew is selected.	when hot water tank temperature is at	
	Notifications shown on screen: TEXT: HEATING →Tank above 87°C/189°F-	setpoint	
	will allow brew at low temperature.	33,43	
	Coffee flavor may be affected		
	TEXT: L. HEAT→Tank above 76°C/169°F-		
	will allow brew at low temperature.		
	Coffee flavor will be noticeably affected		
ı	USER SELECTABLE OPTION: BRE	W AT TEMP: OFF	:
	(Not recommended) Unit will operate		
	thot recommended) Offic will operate	at cold temperatur	- C

Allows brewing at any temperature above 77°C/170°F Below 70°C/170°F-the red colored ready lights switch turn off

CI	Chart to correct for altitude for boiling point in tank water temperature.									
[ft]	[m]	Suggested Setting[°F]	Boiling point[°F]	Suggested Setting[°C]	Boiling point [°C]					
0	0	205	212.0	96	100.0					
500	152	205	211.0	96	99.5					
1000	305	200	210.1	93	98.9					
2000	610	200	208.1	93	97.8					
2500	762	200	207.2	93	97.3					
3000	914	200	206.2	93	96.8					
3500	1067	197	205.3	92	96.3					
4000	1219	195	204.3	91	95.7					
4500	1372	194	203.4	90	95.2					
5000	1524	194	202.4	90	94.7					
5500	1676	193	201.5	89	94.2					
6000	1829	192	200.6	89	93.6					
6500	1981	191	199.6	88	93.1					
7000	2134	190	198.7	87	92.6					
7500	2286	188	197.8	86	92.1					
8000	2438	187	196.9	86	91.6					
8500	2591	185	196.0	85	91.1					

C INPUT	S	Brewer Sensors and Keypad				
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes	
C1	LLC Probe Continuity	Direct read	Reading of tank water resistivity in TDS	≈850- LOW ≈1600-HIGH	Nominal values	
C2	Brew Basket Sensor	Direct read	YES or NO			
СЗ	Tank Temperature	Direct read	Hot water tank temperature		Actual values	
C4	Keyboard Test	Calibrate	Checks buttons under membrane cover	YES/NO	Follow directions on the touch screen	

D OUTP	UTS	Test Valves	and Heaters; Set	screen brigl	htness
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes
D1	Heater Test	Press button 2 to test (button 1 stops test)	Activates valve Default is 10 sec	Toggle +/- OFF or ON	Energizes Heater(s) WARNING! Service use only.
D2	Fill Valve Test	Press button 2 to test (button 1 stops test)	Activates valve Default is 10 sec.	Toggle +/- OFF or ON	Press To Test
D3	Left Valve Test	Press button 2 to test (button 1 stops test)	Activates valve Default is 10 sec.	Toggle +/- OFF or ON	Runs valve to verify flow. NOTE: Have container under brew basket.
Sing	le series displays L	EFT side only RIGHT Va	alve display is only for	CBS-1152 X\	/+ twin side brewer.
D4	Right Valve Test	Press button 2 to test (button 1 stops test)	Activates valve Default is 10 sec.	Toggle +/- OFF or ON	Press To Test
D7	LCD Brightness	Brightness=8	0-15	1	Adjust LCD screen brightness only-Not for LEDs under buttons

E OTHER	E OTHER Software & Code View and Settings								
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes				
E1	Display Firmware	1.0.1744			Displays current version				
E2	Select Model	CBS-1151 XV+ OR CBS-1152 XV+ Will need reboot	Scroll to brewer model Save&Exit	CBS_1131; CBS_1132; CBS_1151; CBS_1152	NOTE: Overwrites all user settings (See page 9)				
E3	Display Errors	Lists up to six codes, in order	1: ; 2: ;3:;4: ;5: ;6: 1=Newest/6=Oldest LAST six errors only	Newest=last Oldest=first	See Error Code Chart for references				
E4	Reset Errors FACTORY USE ONLY	NO +		Toggle +/- YES or NO	NOTE: Always contact FETCO Technical Service for errors (800)338-2699				
Resetting			rvice and factory diagno the brewer "OFF" the						
E5	(Reload) DEFAULTS	Reset to default of base model	Will need reboot	Toggle +/- YES or NO	COMPLETELY OVERWRITES ALL USER SETTINGS				
E6	USB Data Save	Save data to USB							
E7	Load From USB	Plug in USB flash- drive device.	Will need reboot						
E8	DEMO Mode	DEMO ON/OFF	Will need reboot		Demonstrates the controls for training. Brewer will not brew when in demo mode. Reset in E8 to "OFF" to exit				

F SAVE & EXIT

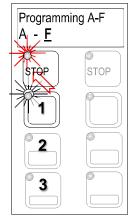
Saving changes and exiting PROGRAMMING

The brewer will save changes only from the "F" menu. **DO NOT** reboot brewer or toggle ON/OFF-exit as below. DO NOT attempt to save by rebooting (turning power OFF then ON). All changes made will be discarded and brewer will remain in the existing default settings

TO EXIT PROGRAMMING & HOW TO SAVE CONTROL SETTING CHANGES

HOW TO SAVE CHANGES AND EXIT-The brewer is in PROGAMMING mode.

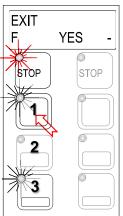
You may exit programming at any time. After programmed settings are saved, the brewer exits PROGRAMMING mode and returns to regular brew operations. Settings are saved only when brewer returns to OPERATING MODE



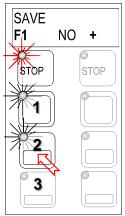
From any screen-Press STOP button until the EXIT ("F") screen appears



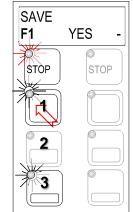
From the "F" screen
Press button 2 to
toggle to the EXITYES screen



From EXIT screen
Press button 1 to
toggle to the SAVE
screen



From SAVE screen
Press button 2, to toggle to the SAVEYES screen



To SAVE and EXIT
Press button 1 to
SAVE your changes
and EXIT to
OPERATING MODE

NOTE: User Settings will be erased and overwritten to factory default settings by the following five programming changes

- 1) When setting or changing units of display for the tank temperature (F Fahrenheit or C Celsius). (SETTING B4)
- 2) When setting or changing units of display for the volume (G gallons, L liters).
- 3) When setting brewer model →The software sets equipment to brewer defaults
- 4) When resetting (Reloading) DEFAULTS
- 5) When loading from USB (Reloads to defaults)

(SETTING B5)

(SETTING E2)

(SETTING E5)

(SETTING E7)

Error Codes

Insert Brew Basket

DO NOT CLEAR ERROR CODES UNTIL ERROR IS IDENTIFIED AND/OR CORRECTED Contact specialized personnel for error codes

Code Description Possible Cause **Corrective Action** Software error-error on start up or Improper start-up or 001 Restart, if still fault: reload software corrupted software shutdown 050 Short-circuit in temperature probe Probe failure. Replace probe. Bad probe connection, or Check all connections. Replace probe 051 Open temperature probe. probe failure. if necessary. Initial Fill Error. Watch for short potting during brew Water supply flow rate is 100 Initial fill time took longer than cycle. Investigate cause of low flow too low. rate. (Clogged water filter...) expected after power up. Error on refill-. Watch for short potting during brew Water supply flow rate is 101 Tank did not refill within expected cycle. Investigate cause of low flow too low. rate. (Clogged water filter...) time. Failure of: heating element, Heater open, high limit thermostat, Check and replace heating elements if 201 SSR, high Limit or low or Solid State Relay (SSR) fault necessary. voltage Usually from longer than 2 Restart, if still fault: reload software. 255 Touch pad error min contact. Or faulty If mechanical: reassemble correctly reassembly after service Brew basket must be in NO place Insert brew basket into brewer rails to **BSKT** enable brewer 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. Drain, and begin first brew
- 2. Make sure the dispenser is empty before brewing into it..
- 3. Show how to attach covers, close, and or secure the dispensers for transporting.
- 4. Do not remove the brew basket from a coffee brewer until it has stopped dripping.
- 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 coffee filter and grinds 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. → Wash 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

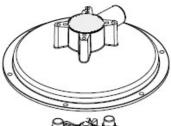
Warning

- 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 spray head, 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.





Installation Guide

(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 spray head 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.

Electrical:

- 1. All FETCO 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 User's 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.

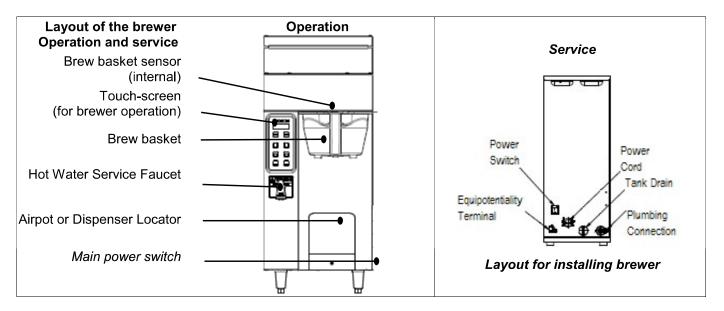
→The check valve should be as close to the water supply inlet of the beverage equipment as possible.

Tank Drain

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

- 1. Disconnect power and water to unit. DANGER: Insure that all utility connections to the brewer are broken.
- 2. Move the unit near a sink or obtain a container large enough to hold four gallons of water.
- →Note: the hot water tank may hold more than four gallons.
- 3. Remove the front panel and tank cover and allow the tank to cool to a safe temperature
- 4. The tank drain line and clamp are located inside-under the hot water tank. Pinch the drain line clamp to close
- 5. Locate the fill valve against the back wall, using pliers, loosen the hose clamp and move it back over the tube.
- →Note Do not loosen the hose clamp to the bottom of the hot water tank
- 6. Crimp the tube an inch or two away from the drain plug to prevent water from flowing and pull it off the valve.
- 7. Pull the tube end out of the brewer and position over sink or bucket.
- 8. Release the crimped tube and hose clamp and allow the water to flow into the sink or container.
- 9. Multiple buckets may be needed during the draining, see tank volumes below.

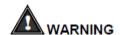
Brewer	Hot Water Tank Capacity	OPEN Leave open for use	
CBS-1151 XV+ Single	6.3 gal 24 liter	'	
CBS-1152 XV+ Twin	11.5 gal 44 liter	PINCH SHUT To drain tank & service brewer	AI!



Installation safety and hygiene directions-For International and CE equipment

- 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.
- 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.

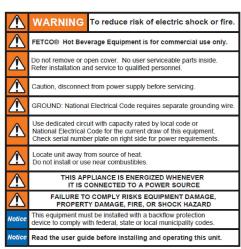
Equipment exposed to flood and contaminated must not be used due to electrical and food safety. Do not operate if unit has been submerged or saturated with water.



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.

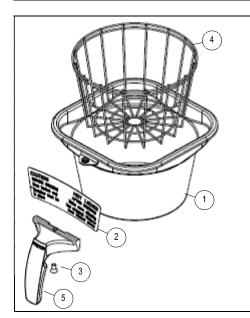
To prevent an electric shock hazard this device must be bonded to equipment in close proximity with an equipotential bonding conductor. This device is equipped with a bonding lug for this purpose and is marked with the following symbol





Brew Basket Parts

Part Number B015280BN2 – Complete Plastic Brew Basket Brown colored insert is standard Brew basket handle plug for polymeric brew baskets is available in optional colors. STANDARD Plastic Brew Basket CBS-1151 & CBS-1152 XV+ Part Number Plug Insert color 1023.00195.00 BROWN PLUG, BB HANDLE 1023.00190.00 RED PLUG, BB HANDLE 1023.00191.00 GREEN PLUG, BB HANDLE 1023.00192.00 ORANGE PLUG, BB HANDLE



OPTIONAL 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 han		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								

1023.00180.00 BLUE PLUG, BB HANDLE

1102.00223.01	Large	e Spray	Assembly Parts	CBS-1151XV+ & CBS-1152 XV+
	Ref	QTY	PART NO	DESCRIPTION
	1	1	1102.00116.00	CSD LARGE SPRAY HOUSING
	2	1	1023.00296.00	ADAPTER PLATE
	3	1	1057.00072.00	COIL ASSEMBLY
	4	1	1024.00038.00	LARGE BREW VALVE DIAPHRAGM
0-6	5	1	1102.00212.00	ASSEMBLY PLUNGER WITH 8.0 OZ SPRING 24 VDC
	6	4	1082.00123.00	SCREW #8-15 X 0.75"TRUSS HEAD; SELF TAPPING
	7	1	1102.00043.00	CASCADE SPRAY DOME CBS-2050/60'S
				1000.00108.00 Brew valve rebuild kit CONTAINS:
		B		PLUNGER SPRING LARGE BREW VALVE DIAPHRAGM

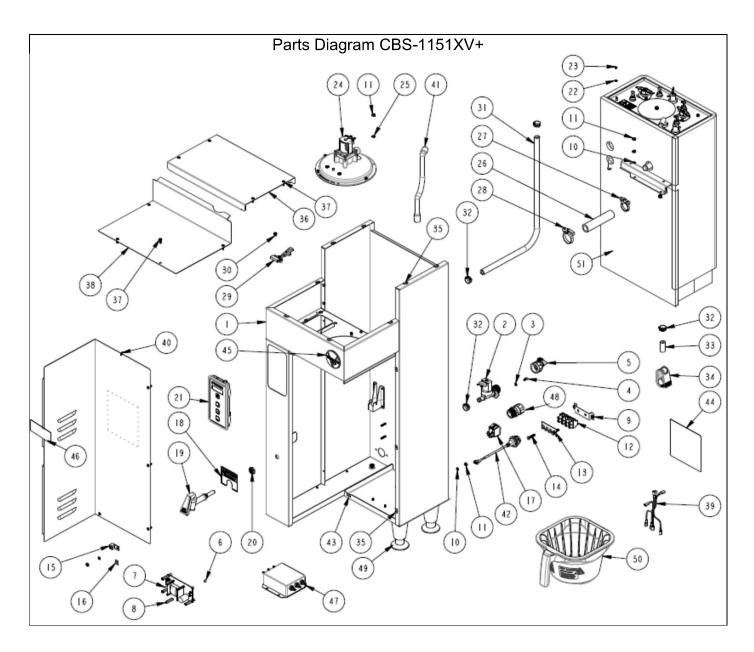


Table of Variables for CBS-1151XV+ Models													
SKU No.	TANK ASSY	WIRING DIAGRAM.	STRAIN RELIEF										
E115151	1104.00061.01	1401.00147.00	1086.00008.00										
E115161	1104.00061.01	1401.00159.00	1086.00031.00										
E115162	1104.00096.01	1401.00159.00	1086.00031.00										
E115180	1104.00095.01	1401.00152.00	1086.00008.00										
E115190	1104.00097.01	1401.00153.00	1086.00008.00										
E115191	1104.00095.01	1401.00153.00	1086.00008.00										
E115192	1104.00061.01	1401.00154.00	1086.00008.00										
E115193	1104.00096.01	1401.00154.00	1086.00008.00										

Ref	Qty	Part Number	Description Drawing 1101.00342.00 CBS-1151XV+
1	1	1111.00088.00	WELDMENT, COMPLETE, CBS-1151 XV+
2	1	1057.00043.00	SOLENOID VALVE, 5.5L/min, 180 DEG, 24VDC
3	2	1083.00005.00	LOCKWASHER, M4 18-8 INTERNAL TOOTH
4	2	082.00010.00	SCREW, M4x10 ZINC-PLATED PAN HD. PHILLIPS MACHINE.
5	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
6	8	1081.00006.00	SPACER, 6MM OD x 3.2MM ID x 5MM LG
7	1	1052.00001.00	POWER SUPPLY, 90-264VAC/24VDC, 1.8A
8	4	1029.00012.00	SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD
9	1	1112.00268.00	WELDMENT, BRACKET TERMINAL BLOCK, 4 POLE
10	5	1083.00011.00	INTERNAL TOOTH LOCKWASHER, #8 SCREW SIZE,
11	13	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
12	1	1052.00023.00	EUROSTRIP HE16 TERMINAL BLOCK, 4 POLE, 63 AMP, 18-8 AWG
13	1	1052.00025.00	MARKING PLATE
14	2	1082.00082.00	SCREW, PHILLIP HD., 8-32 THREAD
15	1	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM
16	1	1044.00012.00	LABEL GROUND, CE
17	1	1058.00024.00	SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC
18	1	1046.00051.00	LABEL, "WARNING, EXTREMELY HOT WATER"
19	1	1071.00055.00	FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM
20	1	1084.00048.00	JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS
21	1	1102.00375.00	ASSEMBLY, FRONT PANEL, CBS-1100 SINGLE
22	1	1083.00009.00	LOCKWASHER, #6 SCREW , INTERNAL TOOTH
23	1	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
24	1	1102.00223.01	SPRAY HOUSING, LARGE, 24 VDC, X
25	6	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
26	1	1025.00021.00	TUBE, 31/32"OD X 5/8"ID X 4 1/4"LG, BREW
27	1	1086.00018.00	HEYCO HOSE CLAMP DIA875-1.00
28	1	1086.00017.00	HEYCO HOSE CLAMP DIA .1.031-1.187
29	1	1102.00113.00	SWITCH, REED, ASSEMBLY
30	1	1029.00006.00	NUT, FINGER, #4-40 NYLON
31	1	1025.00082.00	TUBE, 5/8"OD X 3/8"ID X 19.00"LG.
32	4	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
33	1	1025.00058.00	TUBE, 9/16"OD X 5/16"ID X 25.00"LG
34	1	1086.00009.00	CLAMP, 3/4" MAX TUBE OD FLOW CONTROL
35 36	11	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA.
37	1 12	1001.00362.00	COVER, TOP, CBS-1151
		1082.00017.00	SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.
38	1	1001.00363.00	COVER, UPPER BASE, CBS-1151 XV+ HARNESS, LOW AMP, CBS-1151-XV+, UL
39	1 1	1402.00097.01 1402.00061.01	HARNESS HIGH AMP
39	1	1402.00050.01	HARNESS HIGH AMP CE
40	1	1112.00470.00	WELDMENT, RIGHT COVER, CBS-1150 XV+
41	1	1024.00098.00	VENT TUBE, XTS & XV+
42	1	1058.00055.00	USB CONNECTOR
43	1	1084.00024.00	NUT, CLIP ON (J-NUT), #6-32, 1050
44	1	1046.00035.00	LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE"
45	1	1041.00031.00	LABEL, XV+ LOGO
46	1	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
47	1	1052.00036.00	EMI FILTER
48	1	1086.00008.00	CORD STRAIN RELIEF-UL MODELS
48	1	1086.00031.00	CORD STRAIN RELIEF CE MODELS
49	4	1073.00007.00	LEG-FLANGE FOOT
50	1	B015280BN2	BREW BASKET-PLASTIC-STANDARD
50	1	B001280B1	BREW BASKET-STAINLESS STEEL- (OPTIONAL)
51	1	1104.00061.01	TANK ASSEMBLY, CBS1151 XV+ 2 X 3KW/240VAC
51	1	1104.00095.01	TANK ASSEMBLY, CBS1151 XV+ 5KW/240VAC
51	1	1104.00096.01	TANK ASSEMBLY, CBS1151 XV+ 2 X 2.3KW/240VAC
51	1	1104.00097.01	TANK ASSEMBLY, CBS1151 XV+ 4KW/240VAC
			,

Parts Diagram CBS-1152XV+

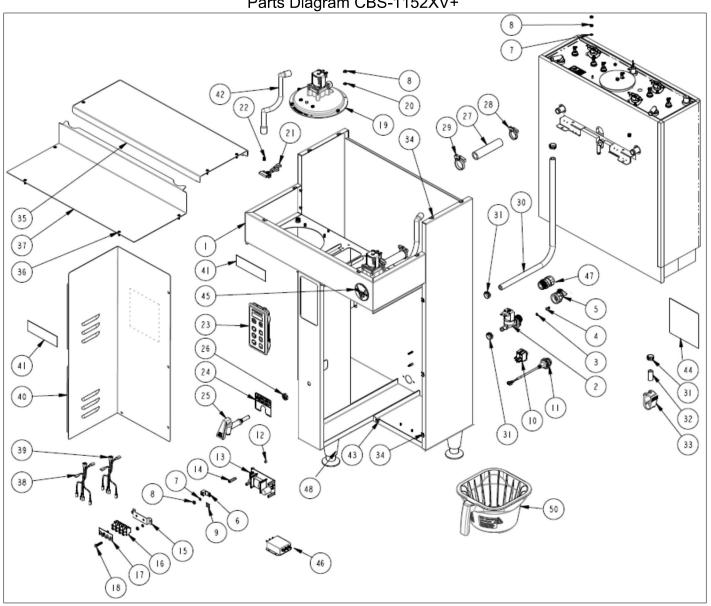
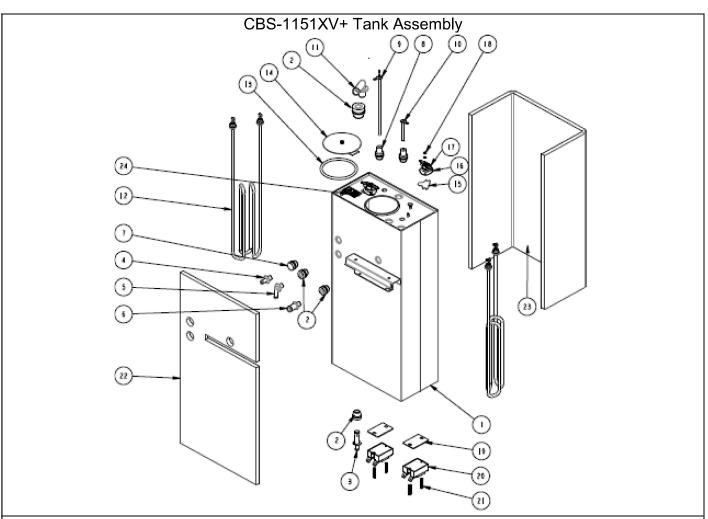
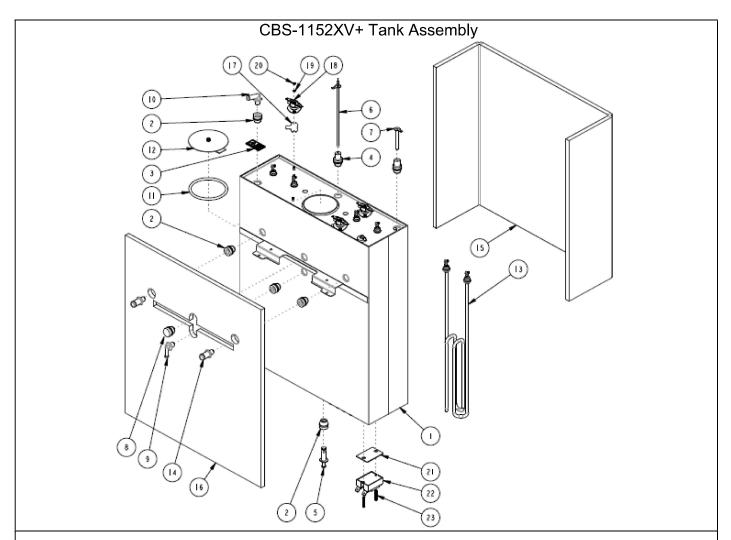


Table of Variables for CBS-1152XV+ Models												
SKU No.	TANK ASSY	WIRING DIAGRAM.	STRAIN RELIEF									
E115251	1104.00062.01	1401.00148.00	1086.00008.00									
E115252	1104.00074.01	1401.00148.00	1086.00008.00									
E115261	1104.00062.01	1401.00160.00	1086.00031.00									
E115262	1104.00074.01	1401.00160.00	1086.00031.00									
E115280	1104.00062.01	1401.00148.00	1086.00008.00									
E115290	1104.00062.01	1401.00156.00	1086.00008.00									
E115291	1104.00074.01	1401.00156.00	1086.00008.00									
E115292	1104.00080.01	1401.00155.00	1086.00008.00									
E115294	1104.00081.01	1401.00155.00	1086.00008.00									
E115296	1104.00075.01	1401.00156.00	1086.00008.00									

Ref	Qty	Part Number	Description Drawing 1101.00339.00 CBS-1152 XV+
		1111.00086.00	WELDMENT BODY COMPLETE, CBS-1152 XV+
1	1		, ,
2	1	1057.00043.00	SOLENOID VALVE, 5.5L/MIN, 180 DEG, 24VDC
3	2	1083.00005.00	LOCKWASHER, M4 18-8 INTERNAL TOOTH
4	2	1082.00010.00	SCREW, M4X10 ZINC-PLATED PAN HD. PHILLIPS MACHINE.
5	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP X 1/4" NPT X 3/8" TUBE
6	1	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM
7	5	1083.00011.00	LOCKWASHER, #8 SCREW SIZE, INTERNAL TOOTH
8	19	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
9	1	1044.00012.00	LABEL GROUND, CE
10	1	1058.00024.00	SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC
11	1	1058.00055.00	USB CONNECTOR
12	8		
		1081.00006.00	SPACER, 6MM OD X 3.2MM ID X 5MM LG
13	1	1052.00001.00	POWER SUPPLY, 90-264VAC/24VDC, 1.8A
14	4	1029.00012.00	SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD
15	1	1112.00268.00	WELDMENT, BRACKET TERMINAL BLOCK, 4 POLE
16	1	1102.00284.00	ASSEMBLY, TERMINAL BRACKET INTERNATIONAL VERSION
16	1	1052.00023.00	EUROSTRIP HE16 TERMINAL BLOCK, 4 POLE, 63 AMP, 18-8 AWG
17	1	1052.00025.00	PLATE, MARKING #BS1016E
18	2	1082.00082.00	SCREW, PHILLIP HD., 8-32 THREAD
19	2	1102.00223.01	SPRAY HOUSING, LARGE, 24 VDC
20	12	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
21	2	1102.00113.00	SWITCH, REED, ASSEMBLY
22	4		, , , , , , , , , , , , , , , , , , ,
		1029.00006.00	NUT, FINGER, #4-40 NYLON
23	1	1102.00372.00	ASSEMBLY, FRONT PANEL, CBS-1100 TWIN
24	1	1046.00051.00"	LABEL, "WARNING, EXTREMELY HOT WATER
25	1	1071.00055.00	FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM
26	1	1084.00048.00	JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS
27	2	1025.00021.00	TUBE, 31/32"OD X 5/8"ID X 4 1/4"LG, BREW
28	2	1086.00018.00	HEYCO HOSE CLAMP DIA875-1.00
29	2	1086.00017.00	HEYCO HOSE CLAMP DIA .1.031-1.187
30	1	1025.00082.00	TUBE, 5/8"OD X 3/8"ID X 19.00"LG.
31	4	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
32	1	1025.00058.00	TUBE, 9/16"OD X 5/16"ID X 25.00"LG
33	1	1086.00009.00	CLAMP, 3/4" MAX TUBE OD FLOW CONTROL
34	11	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA
35	1	1001.00372.00	COVER, TOP, CBS-1152 XV+
36	12	1082.00017.00	SCREW, TRUSS HD. PHILLIPS HEAD. MACHINE, # 6-32 X 1/2 LG.
37	1	1001.00352.00	COVER, UPPER BASE, CBS-1152 XV+
38	1	1402.00053.01	HARNESS, HIGH AMP, CBS-1151-XV+, UL
38	1	1402.00052.01	HARNESS, HIGH AMP, CBS-1151-XV+, UL CE ONLY
38	1	1402.00097.01	HARNESS, LOW AMP, CBS-1151-XV+, UL
39	1	1402.00097.02	HARNESS ADDITION, LOW AMP, CBS-1152-XV+, UL
40	1	1112.00470.00	WELDMENT, RIGHT COVER, CBS-1150 XV+
41	2	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
42	2	1024.00098.00	VENT TUBE, XTS AND XV+
43	1	1084.00024.00	NUT, CLIP ON (J-NUT), #6-32
44	1	1046.00035.00	LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE"
45			LABEL, XV+ LOGO
	1	1041.00031.00	
46	1	1052.00036.00	EMI FILTER
47	1	1086.00008.00	CORD STRAIN RELIEF-UL MODELS
47	1	1086.00031.00	CORD STRAIN RELIEF CE MODELS
48	3	1073.00007.00	LEG-FLANGE FOOT
49	1	1104.00062.02	HOT WATER TANK 3X3KW/240VAC
49	1	1104.00074.02	HOT WATER TANK 3X5KW/240VAC
49	1	1104.00075.02	HOT WATER TANK 3X4KW/240VAC
49	1	1104.00080.02	HOT WATER TANK 2X3KW/240VAC
49	1	1104.00081.02	HOT WATER TANK 2X5KW/240VAC
50	2	B015280BN2	BREW BASKET-PLASTIC (STANDARD)
50	2	B001280B1	BREW BASKET-STAINLESS STEEL- (OPTIONAL)
50		DOUTZOUDT	DILLY DAGIL 1-3 TAINLESS STEEL (OF HOWAL)



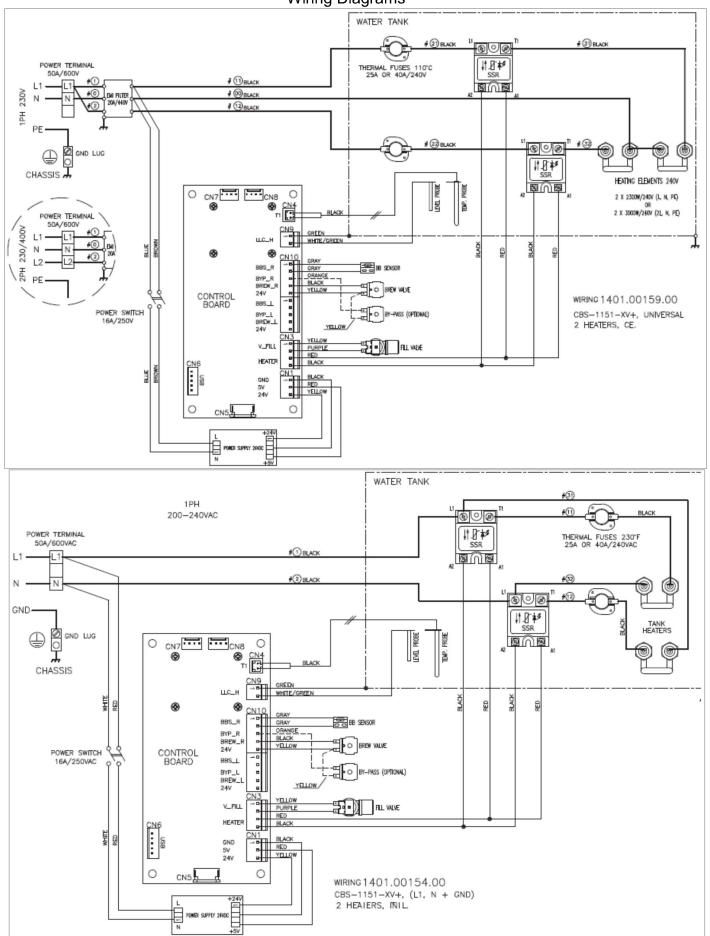
		Complete C	BS-1151 XV+ HOT WATER TANK ASSY, Part number 1104.00061.01
#	Qty	PART NO	DESCRIPTION
1	1	1114.00087.00	WELDMENT, TANK, CBS-1151XV+
2	4	1024.00050.00	GROMMET, SILICONE, 11.4mm ID
3	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN
4	2	1023.00168.00	FITTING, HOT WATER, GROMMET DESIGN
5	1	1023.00183.00	FITTING, BYPASS
6	1	1023.00203.00	FITTING, BREW, GROMMET DESIGN
7	1	1024.00051.00	GROMMET, SILICONE PLUG
8	2	1024.00053.00	LEVEL AND TEMPERATURE PROBE GROMMET
9	1	1102.00161.00	PROBE ASSEMBLY, TEMPERATURE AND LLC, 8" LONG
10	1	1112.00019.00	PROBE WELDMENT, WATER LEVEL 2.600" LG
11	1	1023.00212.00	ELBOW FITTING
12	2	1107.00037.00	HEATER ASSEMBLY, IMMERSION 2300W/240VAC
12	2	1107.00005.00	HEATER ASSEMBLY, IMMERSION 3000W/240VAC
12	2	1107.00010.00	HEATER ASSEMBLY, IMMERSION 4000W/240VAC
12	2	1107.00032.00	HEATER ASSEMBLY, IMMERSION 5000W/240VAC
13	1	1024.00007.00	O-RING, DASH #344, TANK COVER
14	1	1102.00007.00	TANK COVER ASSEMBLY
15	2	1003.00005.00	BRACKET, SINGLE SHOT THERMOSTAT
16	2	1053.00003.00	THERMOSTAT, SINGLE SHOT, 240V/40A
17	4	1083.00009.00	LOCKWASHER, #6 SCREW , INTERNAL TOOTH
18	4	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
19	2	1003.00140.00	ALUMINUM BRACKET FOR SSR
20	2	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC
21	4	1081.00042.00	STANDOFF, 1/4" HEX
22	1	1022.00068.00	INSULATION, TANK FRONT
23	1	1022.00069.00	INSULATION, TANK BACK
24	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE

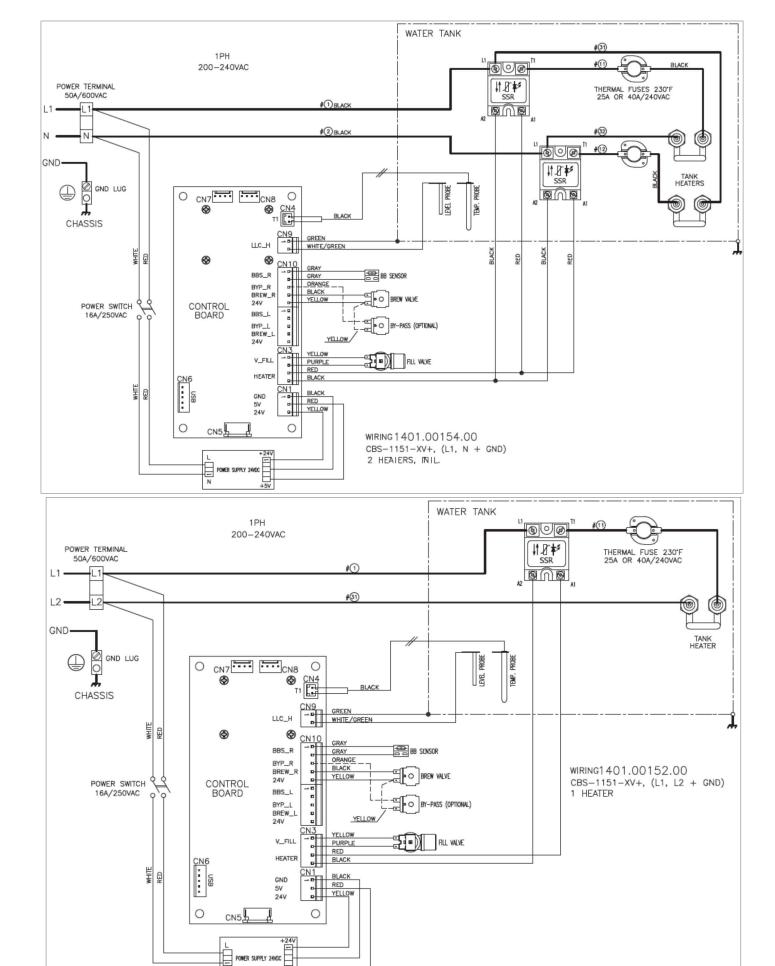


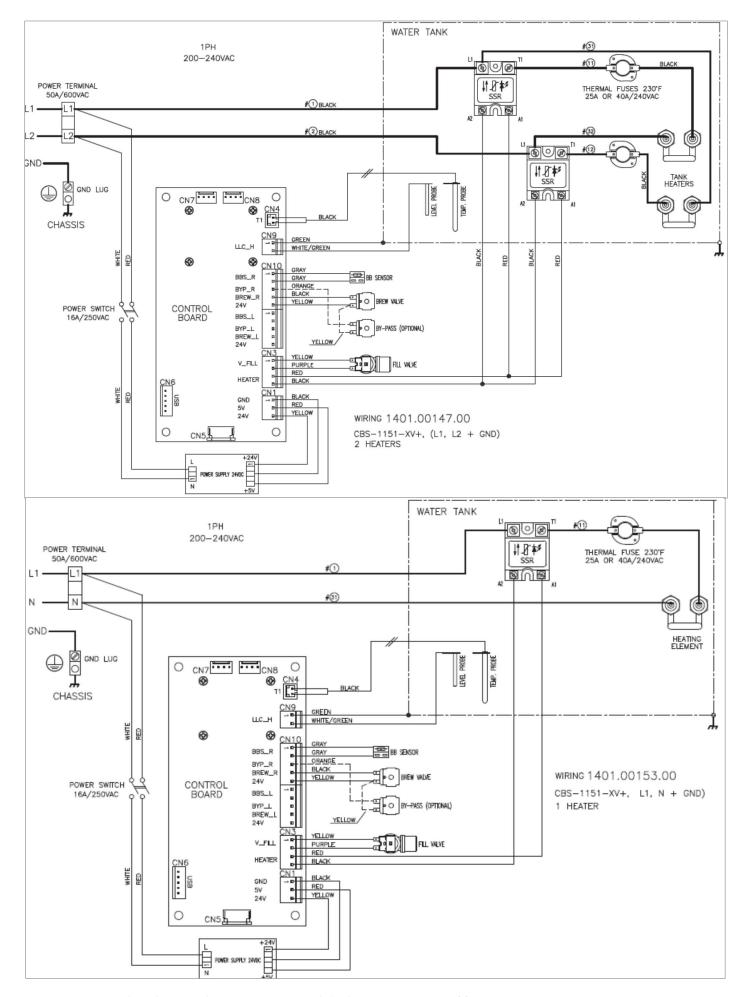
Complete CBS-1152 XV+ HOT WATER TANK ASSY Part Number 1104.00062.01

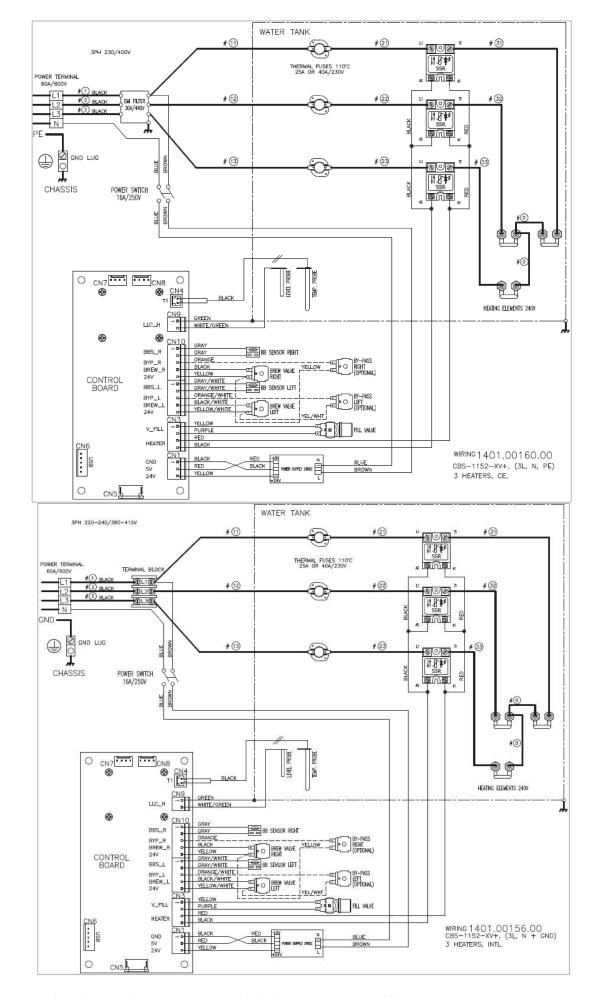
#	Qty	PART NO	DESCRIPTION
1	1	1114.00091.00	WELDMENT, TANK CBS-1152
2	6	1024.00050.00	GROMMET, SILICONE, 11.4MM ID
3	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE
4	2	1024.00053.00	LEVEL AND TEMPERATURE PROBE GROMMET
5	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN
6	1	1102.00161.00	PROBE ASSEMBLY, TEMPERATURE. AND LLC, 8" LONG
7	1	1112.00019.00	PROBE WELDMENT, WATER LEVEL
8	1	1024.00051.00	GROMMET, SILICONE, PLUG
9	1	1023.00183.00	FITTING, BYPASS
10	2	1023.00212.00	FITTING ELBOW
11	1	1024.00007.00	O-RING, DASH #344, TANK COVER
12	1	1102.00007.00	TANK COVER ASSEMBLY
13	3	1107.00005.00	HEATER ASSEMBLY, IMMERSION 3KW/240VAC
13	3	1107.00010.00	HEATER ASSEMBLY, IMMERSION 4KW/240VAC
13	3	1107.00032.00	HEATER ASSEMBLY, IMMERSION 5KW/240VAC
14	2	1023.00203.00	FITTING, BREW, GROMMET DESIGN
15	1	1022.00071.00	INSULATION, TANK BACK
16	1	1022.00070.00	INSULATION, TANK FRONT
17	3	1003.00005.00	BRACKET, SINGLE SHOT THERMOSTAT
18	3	1053.00003.00	THERMOSTAT, SINGLE SHOT, 240V/40A
19	7	1083.00009.00	LOCKWASHER, #6 SCREW , INTL TOOTH
20	6	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
21	3	1003.00140.00	ALUMINUM BRACKET FOR SSR
22	3	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC
23	6	1081.00042.00	STANDOFF, 1/4" HEX

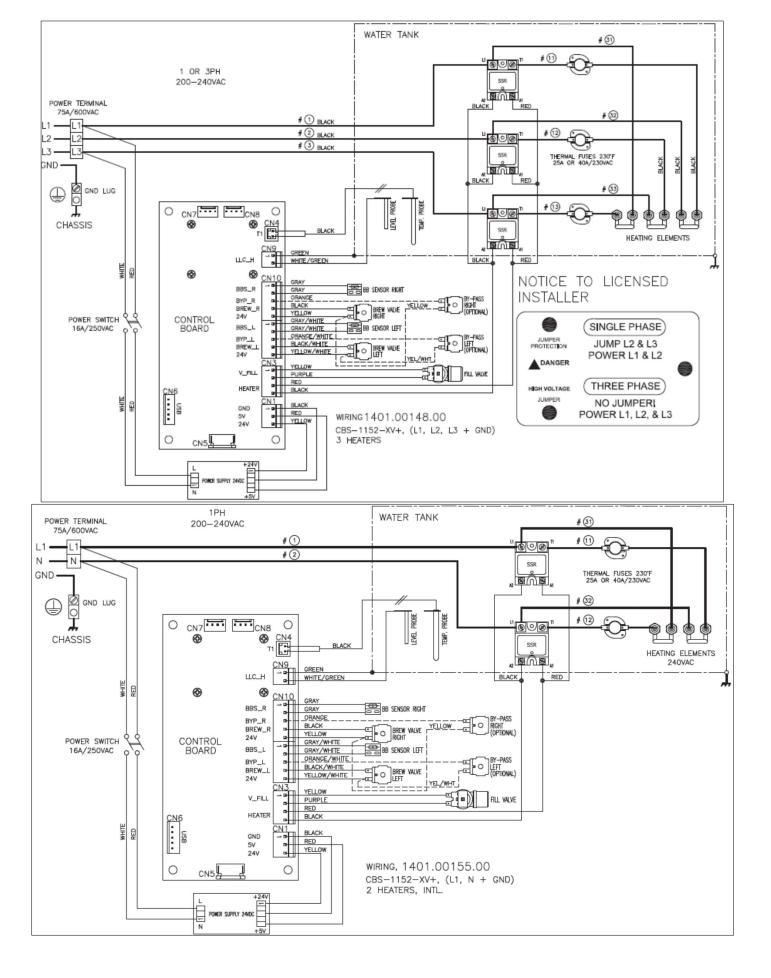
Wiring Diagrams











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