

FETCO User's Guide and Operator Instructions

CBS-2251, CBS-2252 & CBS-2253 Next Generation Brewing System

FETCO Next Generation-NG® Commercial Beverage Equipment







CBS-2252

(Plastic brew baskets are standard, brewers avalible with optional stainless steel brew baskets)



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Product made in USA

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PATENTS:https://www.fetco.com/pl,pages,patents,74.html

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COFFEE BREWER CBS-2250NG Series

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Specifications and Requirements

FETCO CBS-2250 Brewers have unique construction only available for these models.

Water Requirements:Coffee Filter Size:CBS-2250 20-75 psig, (138-517kPa) 1½ gpm/(5.7 lpm)15" X 5 ½" – standard FETCO # F001

Optimal water hardness between 125-250 TDS (6-13 grain) Important! Please use a water filter for all beverage equipment

200°F (93°C) inside water tank (at sea level)

Water inlet fitting: 3/8 inch male flare. Electrical: See electrical configuration chart Pg 3.

Brew Volume: Full Batch CBS-2250: 1 ½ gallon/ 5.6 liters CBS-2252-2: 2 gallons 7.5 liters

Brew Capacity (approximate) CBS-2251 7-10 brews per hour CBS-2252 7-22 brews per hour

Output is controlled by heater power and water temperature

Temperature, as set by factory:

Total Brew Cycle: Factory setting: 6 minutes consisting of 4 min. brew time and 2.0 min. drip delay

Individual menu brew-process parameters are user controllable for:

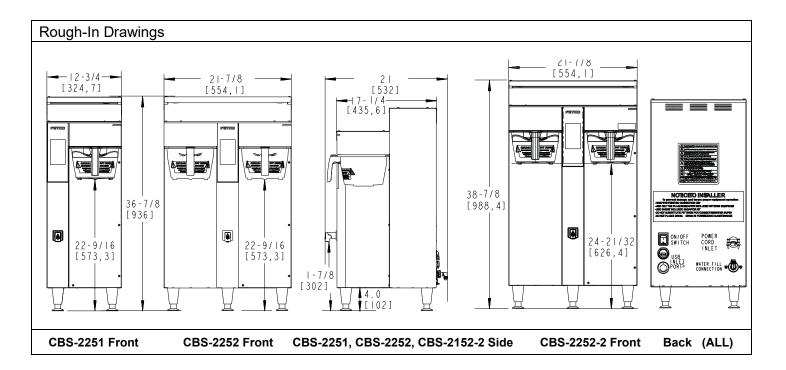
Basic user controls for brew volume, brew time, units of measure, recipe name

Advanced user controls for pulse count, prewet percent and prewet delay, drip delay, programmable energy saving

See pages 4-5 for how to adjust controls for temperature, brew volume, units - and all other settings

Weights and Capacities

Model	Height	Width	Depth	Water tank	Empty	Filled	Shipping	Shipping	
Model	пеідпі	vvidtri	Deptil	capacity	Weight	Weight	Weight	Dimensions	
CBS-2251	36 7/8 in	12 3/4 in	22 1/2 in	6.5 gallon	53 lbs	107 lbs	63 lbs	38" x 18" x 24"	
1½ gal	940 mm	320 mm	570 mm	24.4 L	24 kg	48.3kg	28.6 kg	96.5 x 45.7 x 61 cm	
CBS-2252	36 7/8 in	21 7/8 in	22 1/2 in	11.1 gallon	77 lbs	174 lbs	97 lbs	38" x 24" x 27"	
1½ gal	940 mm	550 mm	570 mm	42.1 L	35.0 kg	78.9 kg	44 kg	96.5 x 61 x 68.6 cm	
CBS-2253	39 in	21 7/8 in	22 1/2 in	11.1 gallon	82 lbs	180 lbs	97 lbs	40" x 24" x 27"	
2 gal	99.1 mm	550 mm	570 mm	42.1 L	37.2 kg	81.6 kg	44 kg	102 x 61 x 68.6 cm	
CBS-2251 8	& CBS-2252	CBS-225	3	Filter Paper	Filter Paper all models		Drawara ahin with plantia brow hadrata		
Calibrated for	or	Calibrated	d for	15" X 5 ½ "-	15" X 5 ½ "– standard		Brewers ship with plastic brew baskets. See page 25 for optional brew baskets		
		2 gallons/	8 liters	Or use FET	CO # F001	See pa			



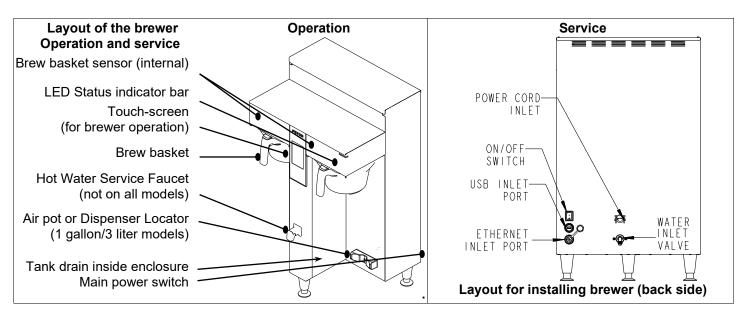
CBS-2251 Domestic USA and Canada models Single-Voltage. With cUL/UL & NSF-4 Certification								
Electrical and Output Specificati	ions All	brewers use te	rminal block electri	cal connection	n for 50Hz o		•	
SKU Number	Phase	Voltage	Heater Configuration	Wires	KW	Maximum Amp Draw	Brew-Volume Per Hour	
E2251US-1B230-PA110	1	200-240	2 X 3.0 kW	2+G	4.6-6.1	22.4-25.8	15.3 gal/58 liters	
E2251US-1B230-MA110	1	200-240	2 X 3.0 kW	2+G	4.6-6.1	22.4-25.8	15.3 gal/58 liters	
CBS-2251 Domestic and In	ternatio	nal models	Single-\	/oltage. W	/ith cUL/UL	& NSF-4 Certific	cation	
Electrical and Output Specificatio	ns All br	ewers use terr	minal block electrica	al connection	for 50Hz or	60Hz Professional in	stallation is required	
E2251IN-1B140-PA110	1	200-240	1 X 4.0 kW	2+G	4.1	14.2-17.1	9.3 gal/35 liters	
E2251IN-1B150-PA110	1	200-240	1 X 5.0 kW	2+G	5.1	17.7-21.3	12.7 gal/48 liters	
E2251IN-1B230-PA110	1	200-240	2 X 3.0 kW	2+G	6.1	21.3-25.5	15.3 gal/58 liters	
CBS-2251 NOM (Mexico Ir	n Spanis	sh) Single-V	oltage. With cl	JL/UL & N	SF-4 Certif	ication		
Electrical and Output Specification	ons All b	rewers use ter	minal block electric	al connection	n for 50Hz or	60Hz Professional in	stallation is required	
E2251NM-1B230-PA110	1	200	2 X 3.0 kW	2+G	4.2	21.2	14.5 gal/54 liters	
NM in SKU suffix (above) denotes ed	quipment	with NOM certi	fication, Spanish lab	peling for Mex	cico and Spar	ish language user gu	ıide	
CBS-2251 Export CE	CE I	isted models	with NSF-4 Cer	tification. In	nternal EMI	Filter Not cUL	or UL Listed	
Electrical and Output Specificat	ions All	brewers use to	erminal block electr	ical connection	on for 50Hz o	r 60Hz Professional	installation is required	
E2251CE-2B230- PA110	2	2 X 2.3 kW	230/400	2L,N,PE	4.9	11.8	14.0 gal/53 liters	
E2251CE-1B230-PA110	2	2 X 3.0 kW	230/400	2L,N,PE	5.6	12.4	15.3 gal/58 liters	

Electrical and Output Specifications for CBS-2252Next Generation Dual 1½ Gallon-6 Liter Coffee Brewers									
CBS-2252 Domestic USA a Electrical and Output Specification						JL & NSF-4 Cert 60Hz Professional in			
SKU Number	Phase	Voltage	Heater Configuration	Wires	KW	Maximum Amp Draw	Brew-Volume Per Hour		
E2252US-UB230-MA110 Field Selectable 1 or 3 phase	1	200-240	2 X 3.0 kW	2+G	4.6-6.1	22.4-25.8	15.3 gal/58 liters		
Sold as 3 phase	3	200-240	3 X 3.0 kW	3+G	6.9-9.1	19.5-22.5	22.5 gal/85 liters		
E2252US-UB230-PA110	1	200-240	2 X 3.0 kW	2+G	4.6-6.1	22.4-25.8	15.3 gal/58 liters		
Field Selectable 1 or 3 phase Sold as 3 phase	3	200-240	3 X 3.0 kW	3+G	6.9-9.1	19.5-22.5	22.5 gal/85 liters		
E2252US-UB250-PA110	1	200-240	2 X 5.0 kW	2+G	7.6-10.1	36.9-42.5	25.3 gal/97 liters		
Field Selectable 1 or 3 phase Sold as 3 phase	3	200-240	3 X 5.0 kW	3+G	11.4-15.1	32.0-36.9	38.3 gal/145 liters		
	CBS-2252 Domestic and International models Single-Voltage. With cUL/UL & NSF-4 Certification Electrical and Output Specifications All brewers use terminal block electrical connection for 50Hz or 60Hz Professional installation is required.								
E2252IN-1B230-PA110	1	200-240	2 X 3.0 kW	2+G	4.6-6.1	22.4-25.8	15.3 gal/58 liters		
E2252IN-1B250-PA110	1	200-240	2 X 5.0 kW	2+G	7.6-10.1	36.9-42.5	25.3 gal/97 liters		
E2252IN-3B340-PA110	3	220/380 or 240/415	3 X 4.0 kW	4+G	12.2	15.7-17.1	29.5 gal/112 liters		
E2252IN-3B330-PA110	3	220/380 or 240/415	3 X 3.0 kW	4+G	9.1	11.8-12.9	22.5 gal/85 liters		
E2252IN-3B350-PA110	3	220/380 or 240/415	3 X 5.0 kW	4+G	15.1	19.5-21.4	38.3 gal/145 liters		
CBS-2252 NOM (Mexico In Electrical and Output Specification							estallation is required		
E2252NM-UB250-PA110	1	200-240	2 X 5.0 kW	2+G	7.6-10.1	36.9-42.5	25.3 gal/97 liters		
Field Selectable 1 or 3 phase Sold as 3 phase	3	200-240	3 X 5.0 kW	3+G	11.4-15.1	32.0-36.9	38.3 gal/145 liters		
E2252NM-1B250-PA110	1	200-240	2 X 5.0 kW	2+G	7.6-10.1	36.9-42.5	25.3 gal/97 liters		
NM in SKU suffix (above) denotes eq	uipment v								
CBS-2252 Export CE	CE li	sted models	with NSF-4 Cert	ification. Ir	nternal EMI	Filter Not cUL or	UL Listed		
Electrical and Output Specification				al connection					
E2252CE-3B350-PM110	3	230/400	3 X 5.0 kW	3L,N,PE	14.1	20.4	38.3 gal/145 liters		
E2252CE-3B350-PA110	3	230/400	3 X 5.0 kW	3L,N,PE	14.1	20.4	38.3 gal/145 liters		
E2252CE-3B330-PA110	3	230/400	3 X 3.0 kW	3L,N,PE	8.6	12.4	22.5 gal/85 liters		

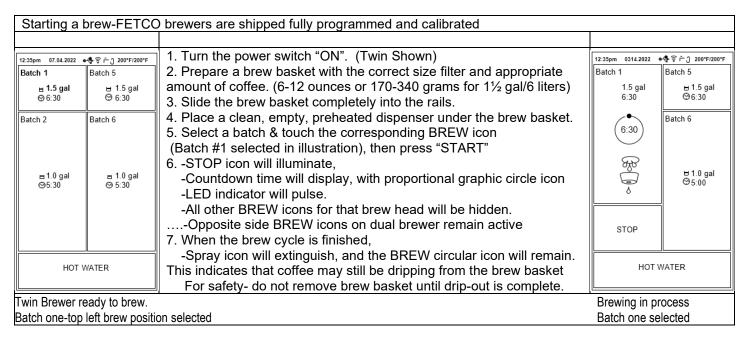
Electrical and Output Sp	ecifica	itions for Cl	3S-2253 <i>Next</i>	Generatio	on Dual 2 (Gallon-8 Liter	Coffee Brewers		
CBS-2253 Domestic USA a Electrical and Output Specification						JL & NSF-4 Cer			
SKU Number		Voltage	Heater Configuration	Wires	KW	Maximum Amp Draw	Brew-Volume Per Hour		
E2253US-UB230-PA110	1	200-240	2 X 3.0 kW	2+G	4.6-6.1	22.4-25.8	15.3 gal/58 liters		
Field Selectable 1 or 3 phase Sold as 3 phase	3	200-240	3 X 3.0 kW	3+G	6.9-9.1	19.5-22.5	22.5 gal/85 liters		
E2253US-UB250-PA110	1	200-240	2 X 5.0 kW	2+G	7.6-10.1	36.9-42.5	25.3 gal/97 liters		
Field Selectable 1 or 3 phase Sold as 3 phase	3	200-240	3 X 5.0 kW	3+G	11.4-15.1	32.0-36.9	38.3 gal/145 liters		
CBS-2252 Domestic and International models Single-Voltage. With cUL/UL & NSF-4 Certification Electrical and Output Specifications All brewers use terminal block electrical connection for 50Hz or 60Hz Professional installation is required.									
E2253IN-1B230-PA110	1	200-240	2 X 3.0 kW	2+G	4.6-6.1	22.4-25.8	15.3 gal/58 liters		
E2253IN-1B250-PA110	1	200-240	2 X 5.0 kW	2+G	7.6-10.1	36.9-42.5	25.3 gal/97 liters		
E2253IN-3B340-PA110	3	220/380 or 240/415	3 X 4.0 kW	4+G	12.2	15.7-17.1	29.5 gal/112 liters		
E2253IN-3B330-PA110	3	220/380 or 240/415	3 X 3.0 kW	4+G	9.1	11.8-12.9	22.5 gal/85 liters		
E2253IN-3B350-PA110	3	220/380 or 240/415	3 X 5.0 kW	4+G	15.1	19.5-21.4	38.3 gal/145 liters		
CBS-2253 NOM (Mexico In	Spanis	sh) Field Se	lectable-Voltage	e With cl	II/UI & NS	F-4 Certification	n		
Electrical and Output Specification	•	,	•						
E2253NM-UB250-PA110	1	200-240	2 X 5.0 kW	2+G	7.6-10.1	36.9-42.5	25.3 gal/97 liters		
Field Selectable 1 or 3 phase Sold as 3 phase	3	200-240	3 X 5.0 kW	3+G	11.4-15.1	32.0-36.9	38.3 gal/145 liters		
E2253NM-1B250-PA110	1	200-240	2 X 5.0 kW	2+G	7.0-10.0	35.2-42.2	26.6gal/100.7liters		
NM in SKU suffix (above) denotes eq	uipment v	with NOM certif	ication, Spanish lab	peling for Me	xico and Span	ish language user	guide		
CBS-2253 Export CE						Filter Not cUL of			
Electrical and Output Specification	ns All br	ewers use tern							
E2253CE-3B350-PM110	3	230/400	3 X 5.0 kW	3L,N,PE	14.1	20.4	38.3 gal/145 liters		
E2253CE-3B350-PA110	3	230/400	3 X 5.0 kW	3L,N,PE	14.1	20.4	38.3 gal/145 liters		
E2253CE-3B330-PA110	3	230/400	3 X 3.0 kW	3L,N,PE	8.6	12.4	22.5 gal/85 liters		

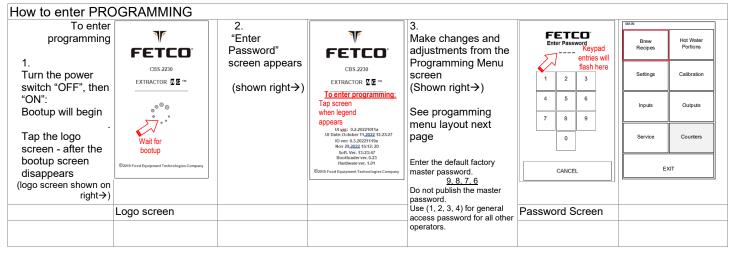
EXAMPLE	EXAMPLE: SKU E2253US-UB230-PM110							SKU NUMBER IDENTIFICATION KEY								
Product Line	Le	<u>evel</u>	<u>Far</u>	<u>nily</u>	Regio	on ID	<u>Phase</u>	Voltage Range	# Heaters	<u>Indi</u> Heater	<u>vidual</u> Wattage	Brew Basket	Hot Water Faucet	<u>Bypass</u>	Brew Basket Locks	Power Cord
E	2	2	5	3	U	S	U	В	2	5	0	Р	M	01	1	0
E=extractor						Jnited ates	1	A = 100-120	1		1.5	P=plastic	M=manual	1=Yes	1=Yes	0=Terminal Block
			51 single	l= e side		l = ational	2	B = 200-240	2		1.7	M=metal	A=automatic	0=no	0=no	1= NEMA 5-15P
		Next Series		2= side	CE =	= CE	3	C = 380-415	3		2.3		N=None			2=NEMA 5-20P
					NM =	NOM	U = 1 or 3	D = 440-480		;	3.0					3=NEMA 6-15P
											4.0					4=NEMA 6-30P
			dual	3= side allon				X=120 or 240 Dual Voltage			5.0					5= CEE 7/7 Schuko
																6=UK1-13P 7= AUSTRALIAN

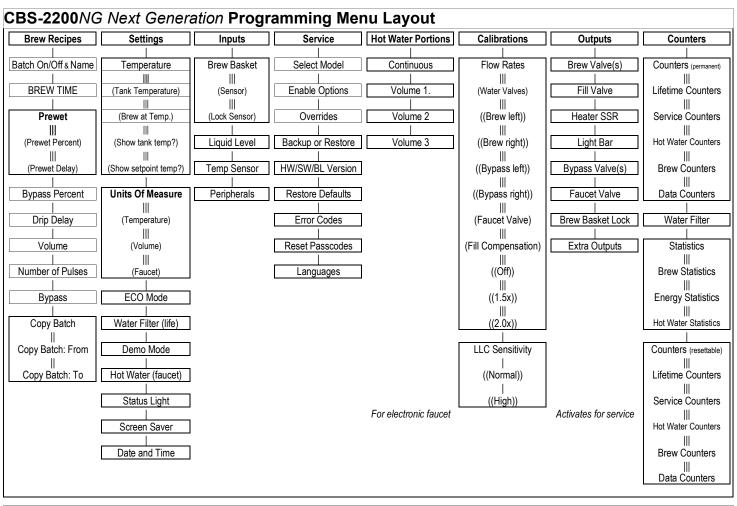
Customer options	BREW BASKET TYPE (P, M OR C)	HOT WATER FAUCET (M, A OR N)	BYPASS (1 OR 0)	Brew Basket Lock (1 OR 0)
* is factory standard feature	*P=Plastic	*M=Standard manual	*1=With	*1=With
Add all the following numbers	M=Gourmet Metal	A=Automatic electronic	0=None	0=None
after all SKU numbers	C= Gourmet Metal + clips	N=No hot water faucet		



Fast start brewing goes here in TOC





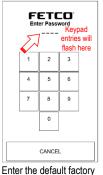




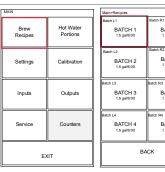
TO ACCESS **PROGRAMMING** Turn brewer OFF Then turn ON Waiting while bootup icons momentarily appear.



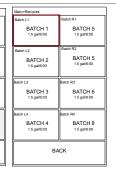
Tap the face panel when the legend screen appears



master password. <u>9</u>, <u>8</u>, <u>7</u>, <u>6</u> Use (1, 2, 3, 4) for general access password Batch 1 will be selected for all other operators.



Touch Brew Recipes for setting the brewer parameters for each menu item



Touch Batch 1 to set the brew parameters. Prewet will be selected



Touch Prewet icon to adjust prewet

The chart below describes the icons shown on this screen



Touch and slide to desired setting. Touch BACK when complete and make further adjustments or press BACK and SAVE & EXIT.

Brew Recipes	Program Items	Factory set Default	Programming Range	Notes
Batch Name	Batch On/Off	All "ON"	On/Off	Only top batch(s) are always enabled
Batch Name	Customize Name	Batch (1-4 L) (5-8 R)	Complete keypad	Scroll and tap three virtual keypads
Brew Time	Time of brew	4:00 minutes	2:00-12:00 mins/secs	Add to prewetting and drip delay times
Prewet	Prewet percentage	0	0-25% brew volume	Initial wetting to stabilize very fresh coffee
Prewet	Prewet delay time	1:00 sec.	0:10 sec to 5:00 min	Pause after coffee bed is prewetted
Drip Delay	Pause after brew	2:00 min:sec.	00.30 to 6:00	Time that brew basket remains locked during drip-out. This is a safety feature.
Brew Volume	Total volume	1.5 gallons/5.6 liters 1.0 gallon/3.8 liter 2.0 gallons/8liters	0.5-2.0 gal./0.95-8.0 liters	Factory set for 1½ gallon dispenser and for 1 gallon second batch
Number of Pulses	Start/stop in brew	8	4-20	Algorithm evenly divides brew time cycle
Bypass Percentage	Diverts brew water	0	0-40% of brew volume	Affects flavor, strength and mouth-feel
Copy & Paste Menu	Current recipe		Paste into all other recipes	Will paste selected into the other



Settings	Program Items	Factory set Default	Programming Range	Notes
Temperature	Tank Temperature	200°F/92°C	170-208°F/70-96°C	Hot water tank, brewing water temp.
Temperature	Brew at Temperature*	ON	OFF/ON	See note below
Temperature	Show Tank Temp.	ON	OFF/ON	Shows 1st at top right screen
Temperature	Show Setpoint Temp.	ON	OFF/ON	Shows 2 nd at top right screen
Units of Measure	Temperature Volume Hot water Faucet	F° or C° degree units Gallon or Liters units Ounce or Milliliters	NO or YES	Main>Settings>UNITS Temperature Volume Faucet Main>Settings>UNITS C C MI
ECO Mode	ON/OFF Eco idle time (to start) Eco Tank temperature	OFF 1 hour 169°F	Turn on or off 1-6 hours 158°F to 176°F	Screen will display Eco Mode when activated-will take time to reheat to set brew water temperature
Water Filter	Water filer installed Rated filtering volume	NO 2625 gallons	NO or YES 250 gallons to 3950 gallons	
Demo Mode	Disables controls	OFF	OFF/ON	For training and user familiarization
Hot Water	Digital H. Wtr Faucet	ON	ON/OFF/Automatic	Automatic activates portion control
Status Light	READY LED color	Green	White/Blue/Green	Color when brewer is ready to brew
Screen Saver	Covers recipe screen	OFF	ON/OFF & Timeout setting	"OFF" leaves recipe screen
Date and Time	Set unit date and time	12 hour format	12/24 hour format & date	Store in real time clock

NOTES: Brew at Temperature*

Brew At Temp: "ON" (Default: factory programmed into brewer)
"BREW START" will not be accessible until tank temperature is at set point.
"BREW START" becomes accessible when hot water tank is at the selected temperature.

Menu screen will be dimmed if tank temperature is low

Brew At Temp: "OFF" USER SELECTABLE Allows brewing at any temperature above 170°F/77°C. (Not recommended)

May not apply for two sided brewer if one side is in brew cycle

Altitude Correction Chart

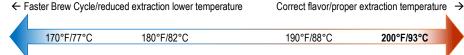
CI	Chart to correct for altitude for boiling point in tank water temperature.									
[ft]	[m]	Suggested Setting[°F]	Boiling point[°F]	Suggested Setting[°C]	Boiling point [°C]					
0	0	205	212.0	96	100.0					
500	152	205	211.0	96	99.5					
1000	305	200	210.1	93	98.9					
2000	610	200	208.1	93	97.8					
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					

Brew At Temperature

Ideal brew water temperature is 200°F/93°C. After brewing, brewers can take time to recover the hot water tank temperature and signal READY to brew. This is called recovery time". The lag in recovery time is caused by rapid brewing cycles in a rush, low power heating elements, low incoming electrical voltage, water supply temperature, even the barometric pressure.

Operators will adjust the "Brew At" temperature to allow the brewing at lower temperatures. This will allow a slightly faster recovery time and give a small increase in brew cycles per hour.

Reduced brew temperature will always compromise the quality of the finished brew and lower the temperature of the customers coffee.

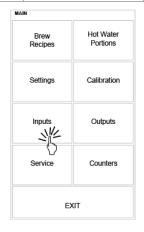


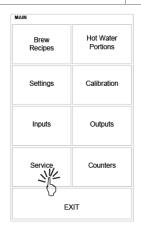
← Faster brew cycle with reduced temperature Compromised Extraction

Correct brew water temperature → Proper Extraction

Inputs	Program Items	Factory set Default	Programming Range	Notes
Brew Basket	Sensor	Displays activity	Brew basket in place?	LEFT o RIGHT o (green=on;red=off)
Brew Basket	Lock Sensor	Displays activity	Brew basket locked?	LEFT o RIGHT o (green=on;red=off)
Liquid Level	LOW	Not used	Not used	Not used
Liquid Level	HIGH	Hot water tank fill	Filled/Not Filled & signal	Green=Filled/Red=Not Filled
Temp. Sensors	Sensor 1	Hot water tank temp.	Actual temperature & signal	
Temp. Sensors	Sensor 2	Not used	Not used	Not used
Peripherals	USB1	Digital input/output	Displays activity	(green=active;red=off)
Peripherals	USB2	Not used	Not used	Not used
Peripherals	RS-232	Digital input/output	Displays activity	(green=active;red=off)

Service	Program Items	Factory set Default	Programming Range	Notes
Select Model	Set brewer model	CBS-2242	MODEL (single side) 1 (dual side) 2 223x © 224x © 225x © 226x ©	To select: touch icon for brewer, touch "BACK" and got to EXIT & SAVE
Enable Options			Options Electric HW faucet OFF ON Bypass Valve(s) OFF ON Brew Basket Lock(s) OFF ON Expansion Board OFF	
Overrides	Brew Basket Sensor Brew Basket Lock Brew Basket Lock Sensor HW Press and hold		Override Safety Features Left Right Brew Basket Sensor OFFON OFFON Brew Basket Lock OFFON OFFON Br. Basket Lock Sensor OFFON OFFON HW Press and hold OFFON OFFON	Overriding deactivates onboard safety systems. This is not recommended for normal operation. A warning/reminder will display in the start screen
Backup or Restore	Backup current configuration	Will save all programmed settings	Requires USB thumb drive	Insert USB thumb drive and touch "BACKUP" & follow instructions
Backup or Restore	Installs saved settings	USB thumb drive with one file-	One file, must be titled: backup.txt	Insert USB thumb drive and touch "RESTORE" & follow instructions
HW/SW/BL Version			Software	
Restore Defaults	Return factory sets		Will overwrite all settings	Touch and hold icon 5 seconds
Error Codes			Error Log Error Code Code & definition Date/time stamp Export Log To USB Follow prompts to export Error Statistics Error code frequency Error Statistics Follow prompts to delete	
Reset Passcodes	Overrides default		Operator Code Follow prompts to change Service Code Follow prompts to change	
Languages	Reserved for future use			





Error Codes (From SERVICE - Page 8) DO NOT CLEAR ERROR CODES UNTIL ERROR IS IDENTIFIED AND CORRECTED → Contact factory or 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 Internal flash corrupted Error found in cyclic Restart, if still fault: reload software 002 internal data memory malfunction redundancy check CRC If not corrected: replace board Front U/I board loses communication No communication between Cycle brewer Off then On. 010 with the interior O/I board front panel Check cable connections Front U/I board bad communication Disrupted communication Cycle brewer Off then On. 011 Check cable connections with the interior O/I board Cable connections loose Error codes 10 and 11 may be generated by loose connections, electronic interference, or a software/bootloader issue. For assistance by email: open the SERVICE menu and go to the HW/SW/BL Version. Send a cellphone picture of this screen to techsupport@fetco.com with the serial number of the equipment and your return phone number. For live service, write down the screen information or have the HW/SW/BL Version available and contact FETCO by phone at (800) 338-2699 option 2) to discuss with Technical Service. (Email support is usually faster) The correction for ERROR 10 or 11 may require a simple Off/On power cycle or a bootloader/firmware update that can be sent by email. Contact FETCO as above if cycling power or connections do not correct the fault. Short-circuit in temperature probe Probe failure. 050 Replace probe. Bad probe connection, or Check all connections. Replace probe if 051 Open temperature probe. probe failure. necessary. Initial Fill Error. Water supply flow rate is Reboot machine. If persists-investigate cause of low flow rate. (Clogged water 100 Initial fill time took longer than too low. fill valve is stuck. expected after powering up. water line kinked or closed. filter, kinked line, stuck fill valve) Water supply flow rate to Check water supply line. Flow should be Error on refill-. hot water tank is too low, or 20-75 psig, (138-517kPa) >1gal/3.8L/min 101 Tank did not refill within expected time. fill valve stuck or damaged Investigate cause of low flow rate. If the flow rate is in range-replace fill valve (SEE PAGE 14) Heater is on, temperature is High elevation correction. Bad heaters 200 Heating flatline-Tank is boiling not rising/dropping or temperature probe or position 1) Failure of SSR, high limit. 1)Test and check SSRs, high limit temperature probe, or devices temperature probe. Check If the hot water tank heaters are turned heating element. heating elements with current clamp, on during a heating cycle and tank replace if necessary. 201 temperature is not increasing 2) Water being removed by according to software logic and the 2)Advise staff to refrain from taking large hot water faucet during tank temperature is below setpoint amounts of water from hot water tank, heating (control displays especially during "heating". "heating") Heater is off and heating Check ohms on heater (15-60 Ω). SSR 202 Heater Shorted or Stuck SSR

255

Keyboard [HID] error

(Human Interface Device)



	reassembly after service
	Brew basket must be in
	place
	This is a
N	SAFETY FEATURE

SSR is stuck "ON"

Usually from longer than 10

seconds' contact. Or faulty

Insert brew basket into brewer rails to enable brewer

may be stuck in ON mode-replace SSR.

Restart, if still fault: reload software. If

mechanical: replace module

Hot Water Portions	t Water Portions Program Factory set Items Default		Programming Range	Notes
This setting is only for bre	ewers with an el	ectronic hot water fau	icet. In the <u>SETTINGS</u> menu, th	ne "Automatic" feature must be enabled
Hot Water Portions	Enabled	"ON"		OFF/ON
Hot Water Portions	Name	Continuous	Rename on keypad	Scroll and tap three virtual keypads
	Safety Timeout	0:25	0:10 min 0:60 O	Sets limit for touch and dispense
Hot Water Portions	Volume 1	6 oz.		
	Enabled	ON	Turns "ON" or "OFF"	OFF/ON
	Name	Volume 1	Rename on keypad	Scroll and tap three virtual keypads
	Volume dispensed	6 oz	Volume 6 2 oz 30O	Sets limit for #1 touch and dispense
Hot Water Portions	Volume 2	8 oz		
	Enabled	ON	Turns "ON" or "OFF"	OFF/ON
	Name	Volume 2	Rename on keypad	Scroll and tap three virtual keypads
	Volume dispensed	8 oz	Volume 8 2 oz 30 O	Sets limit for #2 touch and dispense
Hot Water Portions	Volume 3	8 oz		
	Enabled	ON	Turns "ON" or "OFF"	OFF/ON
	Name	Volume 3	Rename on keypad	Scroll and tap three virtual keypads
	Volume dispensed	12 oz	Volume 12 2 oz 30	Sets limit for #3 touch and dispense

MAIN				
Brew Recipes	Hot Water Portions			
Settings	Calibration			
Inputs	Outputs			
Service	Counters			
EXIT				

Calibration	Program Items	Factory set Default	Programming Range	Notes
Flow Rates Water Valves	Brew left	3000 ml/min	Brew Left 0.95(Gal.)/3550 (ml) 3000 ml/min 4150 0.79 gal/min 1.09	Use to attenuate and compensate for variations in brew valve output
Flow Rates Water Valves	Brew right	3000 ml/min	Brew Right 0.95(Gal.)/3550 (ml) 3000 ml/min 4150 0.79 gal/min 1.09	Use to attenuate and compensate for variations in brew valve output
Flow Rates Water Valves	Bypass left	1900 ml/min	Bypass Left 0.38(Gal.)/1400 (ml) 1150 ml/min 1700 0.30 gal/min 0.44	Use to attenuate and compensate for variations in bypass valve output
Flow Rates Water Valves	Bypass right	1900 ml/min	Bypass Right 0.38(Gal.)/1400 (ml) 1150 ml/min 1700 0.30 gal/min 0.44	Use to attenuate and compensate for variations in bypass valve output
Flow Rates Faucet Valve	For automatic hot water faucet	4 ml/min	Faucet 1500 500 ml/min 5000 	To compensate variations in timed dispense from automatic hot water faucet
Fill Compensation	Slow Flow Compensation	OFF	o Off o 1.5x o 2.5x Scroll and go to EXIT&SAVE	Use for FloJet bottled water supply or for reduced water supply from mains.
LLC		NORMAL	o Normal o High Scroll and go to EXIT&SAVE	Liquid level control sensitivity. Normal for most water. High is for reverse osmosis water or very pure water.

How to calibrate the flow rate for FETCO brewers

Set the flow rates of the brewer valves to adjust for over or under potting.

Built-in algorithms in brewer controller software corrects brew parameter to customer preferences or to trim variations in flow control components. The control software uses the new flow rate entered in the CALIBRATION screen to adjust and correct the amount of water delivered by the valve

Increasing the flow rate value DECREASES the volume of water dispensed Decreasing the flow rate value INCREASES the volume of water dispensed

Flow rate adjustment will control all batches made by the valve. All batches on the side of the valve will be adjusted, (left or right)

- -Obtain the <u>VOLUME DISPENSED</u> of water only, by brewing a batch without coffee or filter paper.
- -Obtain the PROGAMMED VALUE of the same brew. This is displayed on the home screen in the batch box
- -Obtain the CURRENT SETTING for the flow rate from the brewer. Do this by entering PROGRAMMING and

Tap to "CALIBRATION" then, tap "Flow Rates" and then "Water Valves". The valves flow rate is in the top right corner.

Using the values obtained above to obtain the new flow rate setting to correct the volume dispensed: Divide the <u>volume dispensed</u> by the <u>programmed volume</u> and then multiply by the <u>current setting</u>

 $\frac{\text{VOLUME DISPENSED}}{\text{PROGRAMMED VALUE}} \times \text{CURRENT SETTING} = \text{NEW FLOW RATE SETTING}$

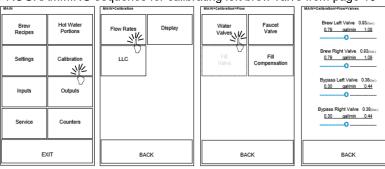
- -Enter programming mode, tap to "CALIBRATION"
- -Tap back to "Flow Rates" and then to "Water Valves"
- -Enter the new flow rate into the calibration slider for the valve tested

Note: values for brewers set in gallons are in decimal format. Place all quantities in ounces and divide by 128 (*One gallon =128 ounces*) to obtain decimal format \rightarrow 1 ½ gallon=128oz+64oz=192 oz (in 1 ½ gal.) 192÷128=**1.5 gal**.

Example below shows overpotting of 16oz over 11/2 gal. batch corrected by recalibration using the formula above

Obtain Volume Dispensed		ATC WITH	Obtain Programmed Value	Obtain Current Setting	Use the formula above	Enter the New Flow Rate
Example:	Batch 1 ± 1.5 gal 690:00	Batch 5 ■ 1.5 gal © eao	The Programmed value	The valves flow rate is in the		Brew Left 1.02(Gal.)
A CBS-2252 delivered 16 ounces	Gent 2	Grach 6	for batch 1 -left side of	top right corner		,
over the 1½ gallon (192oz) setting			the CBS-2252 is on the	Brew Left 0.93(Gal.)	$\frac{1.65}{1.5} \times 0.93 = 1.02$	<u>0.79 gal/min 1.09</u>
for Batch 1-Left Side	₩ 1.0 gal	⊯ 1.0 gal ©9530	home screen in the		1.5	O -
192oz+16oz=208oz	95:30	9530	batch box.	0.79 gal/min 1.09		Enter new setting on the slider
					The new flow rate is	as shown and EXIT to save.
208oz÷128oz/gallon= 1.63gallon	HOT	WATER	The value is 1.5 gallon	The value is 0.93	1.02	Retesting recommended
, <u> </u>						Tratadaning recommended

PROGRAMMING sequence for calibrating left brew valve from page 10



Enter into OUTPUTS-below

MAIN	
Brew Recipes	Hot Water Portions
Settings	Calibration
Inputs	Outputs
Service	Counters
E	XIT

Outputs	Program Items	Factory set Default	Progra	mmir	ıg Range	Notes
These settings are ι	ised to activate indivi	dual controls for testing	g verification	ns and	servicing op	erations
Brew Valve(s)	Momentarily operate Left or Right Brew valves			_eft {}	Right \{\bar{\bar{\bar{\bar{\bar{\bar{\ba	Have dispenser under spray head! Touch to activate flow
Fill Valve	Momentarily operate fill valve		Fill		b	Have dispenser under spray heads! Touch to activate flow
Heater SSR	Turns on all heaters		Heater 3 sec max		6	Activates SSRs to turn on heaters
Light Bar	Momentarily operate light bar(s)		Status Ligh	t	6	
Bypass Valve(s)	Momentarily operates Left or Right Bypass valves		Bypass	_eft {}	Right \{\bar{\}}	Have dispenser under bypass port! Touch to activate flow
Faucet Valve	Momentarily operate faucet valve	For brewers with automatic hot water faucet	Faucet		8	Have dispenser under faucet! Touch to activate flow
Brew Basket Lock	Operates brew basket locks, toggling them on and off		BBL lock L BBL Unlock	eft eft eft output	Right Right Right Right	Will toggle brew basket locks to be engaged then OFF.
Extra Outputs	For future use	Not used	Not used			Not used

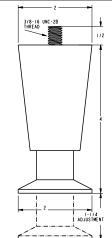
MAIN		MAIN>Counters	
Brew Recipes	Hot Water Portions	Lifetime Counters	Resettable Counters
Settings	Calibration	Water Filter	Reset Counters
Inputs	Outputs	Statistics	
Service	Service Counters		
E	αт	BA	ACK

Counters	Program Items	Factory set Default	Programming Range	Notes			
This setting shows us	This setting shows usage of the brewers functions						
Lifetime Counters These counters are permanent and connect by deleted	Service Counters		Main>Counters>Lifetime>Service Lifetime Counters (units in hours and liters) Unit Uptime				
cannot be deleted. The quantities shown are a permanent record for the machine,	Hot Water Counters		Activation 0 0				
	Brew Counters		Main>Counters-Lifetime>Brew Lifetime Counters (units in liters)				
Water Filter	Data Counters Water Filer Life Time	Reserved for future	Main>Counters>Reset Filter Water Filter Life Time Filter Life Time 0% of 10,000 Press and hold button for 5 seconds To Reset Filter				
Statistics	Brew Statistics	Reserved for future					
	Energy Statistics	Reserved for future					
	Hot Water Statistics	Reserved for future					
Resettable Counters	Service Counters	See screen above	Main>Counters>Reset>Clear				
Troscuable Coullels	Hot Water Counters	See screen above	Clear Resettable Counters				
These are the same screens as above in	Brew Counters	See screen above	Press and hold button for 5 seconds				
"lifetime counters". These can be reset	Service Counters	See screen above	To Clear Error Log				

Brewer Setup

NOTE-Assemble legs immediately after unpacking the brewer and before connection to utilities

1) Attach legs



NOTE-Legs are shipped with the brewer for install The legs are shipped in the brew basket.

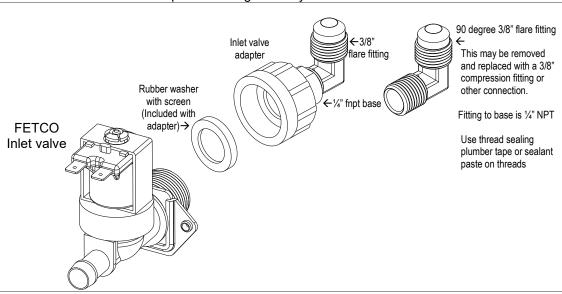
4" legs -

Part number 1073.00007.00 3 required for CBS-2252 4 required for CBS-2251

Legs are sent from factory inside brew basket. Always attach legs before installing

2) Attach water inlet adapter

Place rubber washer with screen in adapter. Hand tighten only-and 1/4 turn with wrench



Install the adapter on inlet valve first before attaching water line. Adapter is shipped in the brew basket The valve threads are 3/4" BSP MALE THREAD and are not 3/4 garden hose fittings.

Use of any other connector to valve will damage the valve

DO NOT use US dishwasher water adapter or US washing machine adapter for this connection.

The threads on these USA type adapters are unusable for the valve and will damage the valve

The damaged valve will leak or will malfunction when damaged causing 100 or 101 error codes. (See page 9)

TO PREVENT DAMAGE AND INSURE PROPER EQUIPMENT OPERATION

The inlet valve thread is 3/4 INCH BSP (British Standard Pipe).

This valve is not a standard USA washing machine or dishwasher thread (3/4" GHT)

- -Use only the plumbing adaptor kit included with this equipment. Use the gasket included in adaptor kit
- -Plumber's tape is not recommended for the adapter to valve connection
- -Hand tighten adapter on valve with gasket, then very lightly wrench 1/4 turn to set
- -DO NOT SUBSTITUTE FITTINGS FOR CONNECTING TO WATER SUPPLY Damage to inlet valve from improper installation will void the warranty

NOTE: DO NOT TANK PLUMB DRAIN. DRAIN IS FOR SERVICE AND MAINTENANCE.

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 six 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-2251 Single	6.3 gal 24 liter	,	
CBS-2252 Twin	11.5 gal 44 liter	PINCH SHUT To drain tank & service brewer	AI!

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/60 cc 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 grounds 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.



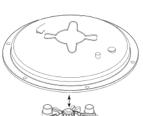
- 1. Wash brew basket with hot sudsy water.
- 2. Pull CSD from the spray head, it is magnetically attached. Use gloves or a heavy towel. → Wash off any film and reattach. Use vinegar if limescale filming is present.
- 3. Clean dispensers with hot suds water and a brush, rinse and air dry.
- 4. Use only 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.

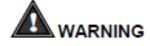




Installation safety and hygiene directions-For International and CE equipment

- 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.
- 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.

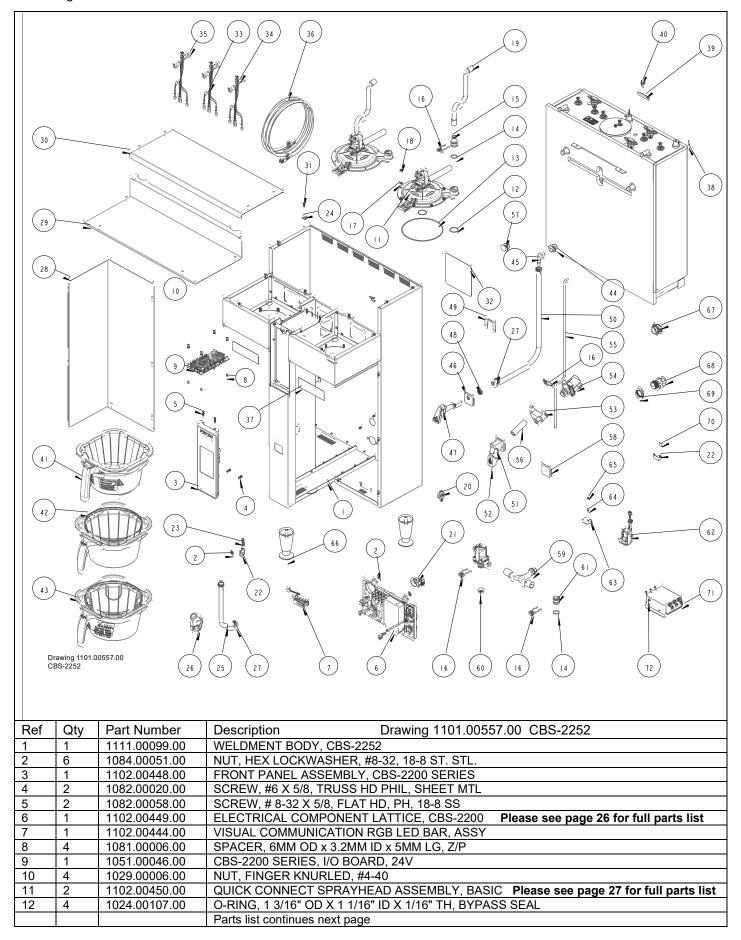
To prevent an electric shock hazard this device must be bonded to equipment in close proximity with an equipotential bonding conductor. This device is equipped with a bonding lug for this purpose and is marked with the following symbol



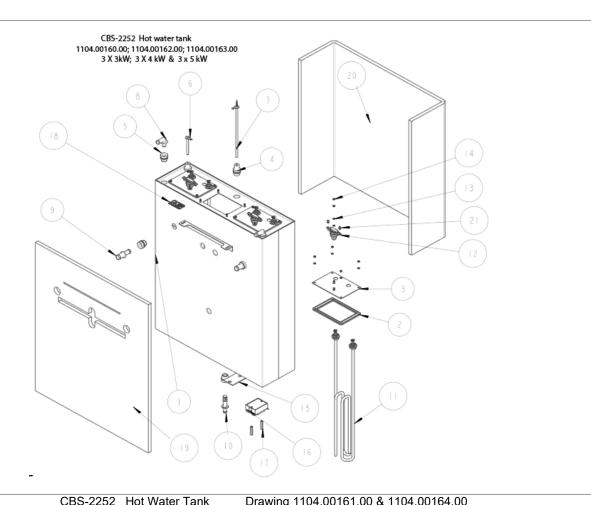
WARNING To reduce risk of electric shock or fire. FETCO® Hot Beverage Equipment is for commercial use only. Do not remove or open cover. No user serviceable parts inside. Refer installation and service to qualified personne Caution, disconnect from power supply before servicing GROUND: National Electrical Code requires separate grounding wire Use dedicated circuit with capacity rated by local code or National Electrical Code for the current draw of this equipment. Check serial number plate on right side for power requirements. Locate unit away from source of heat. Do not install or use near combustibles THIS APPLIANCE IS ENERGIZED WHENEVER IT IS CONNECTED TO A POWER SOURCE FAILURE TO COMPLY RISKS EQUIPMENT DAMAGE. PROPERTY DAMAGE, FIRE, OR SHOCK HAZARD This equipment must be installed with a backflow protection device to comply with federal, state or local municipality codes. Read the user guide before installing and operating this unit.

Labels and warnings for hot beverage equipment

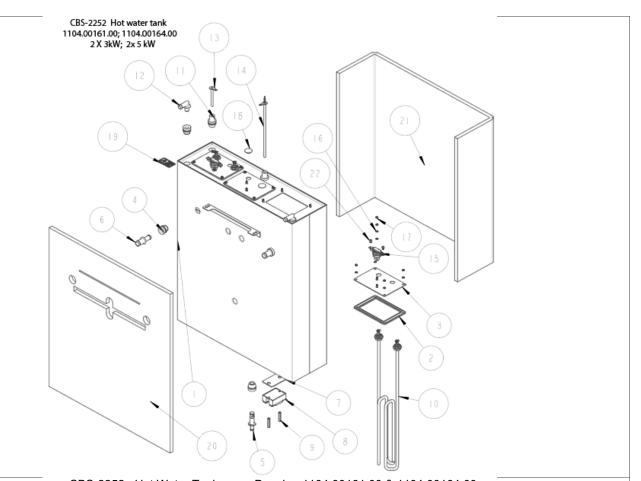
Label for BACK PANEL of equipment (1046.00035.00)



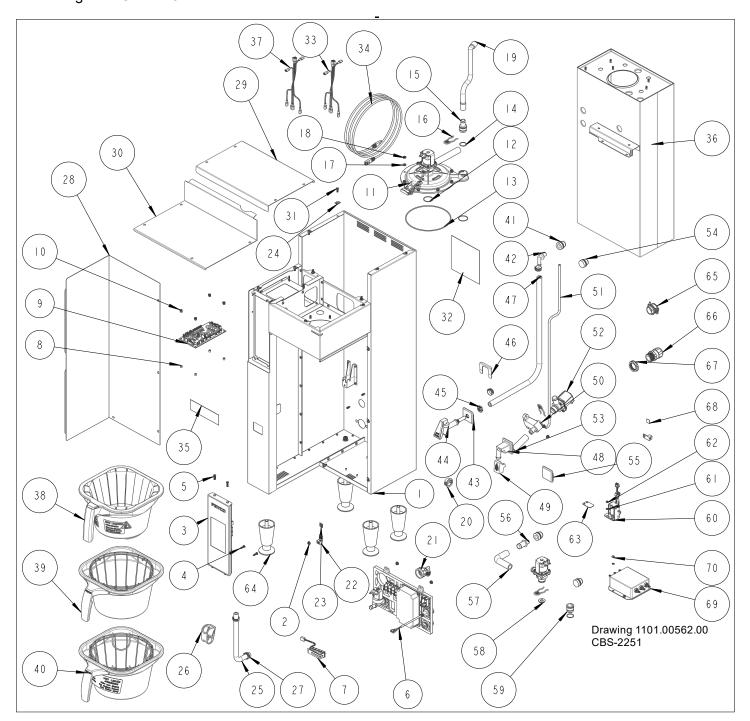
Ref	Qty	Part Number	Description Drawing 1101.00557.00 CBS-2252Continued from page 13
13	2	1024.00108.00	O-RING, 5 11/16"OD X 5 1/2" ID X 3/32" TH, BREW SEAL
14	3	1024.00106.00	O-RING, 13/16"OD X 11/16"ID X 1/16" TH, FOR QUICK CONNECT
15	2	1023.00343.00	VENT INSERT, QUICK CONNECT
16	5	1023.00342.00	QUICK CONNECT CLIP
17	16	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
18	16	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
19	2	1024.00098.00	VENT TUBE, CBS-XTS/XV+ EXTRACTOR SERIES
20	2	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE
21	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
22	12	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM
23	1	1044.00012.00	LABEL GROUND, CE
24	12	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
25	1	1025.00058.00	TUBE, 9/16"OD X 5/16"ID X 25.00"LG
26	1	1086.00009.00	CLAMP, 3/4" MAX TUBE OD FLOW CONTROL
27	4	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
28	1	1112.00529.00	WELDMENT FRONT COVER, CBS-2250
29	1	1001.00352.00	COVER, UPPER BASE, CBS-1152 EXTRACTOR V+
30	1	1001.00399.00	COVER TOP, CBS-2252
31	12	1082.00017.00	SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.
32	1	1046.00035.00	LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE"
33	1	1402.00106.00	HARNESS, CBS-2240/50-NG, LOW AMP, UNIVERSAL
34	1	1402.00107.00	HARNESS ADDITION, CBS-2242/52-NG, LOW AMP, UNIVERSAL
35	1	1402.00053.01	HARNESS HIGH AMP, CBS-1152-XV+
36	1	1063.00042.00	ETHERNET CABLE, CAT-7, 5FT LENGTH
37	2	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
38	1	1104.00160.00	COMPLETE TANK ASSEMBLY, CBS-2252, 3 X 3KW/240VAC
38	1	1104.00161.00	COMPLETE TANK ASSEMBLY, CBS-2252, 2 X 3KW/240VAC
38	1	1104.00162.00	COMPLETE TANK ASSEMBLY, CBS-2252, 3 X 4KW/240VAC
38	1	1104.00163.00	COMPLETE TANK ASSEMBLY, CBS-2252, 3 X 5KW/240VAC
38	1	1104.00164.00	COMPLETE TANK ASSEMBLY, CBS-2252, 2 X 5KW/240VAC
39	1	1022.00032.00	SLEEVE, Ø.50 x 2.0" LG. x 1.50" SLOT
40	2	1066.00003.00	CABLE TIE, 3-7/8" LG., BLACK
41	1	B015280BN2	BB ASSEMBLY, 16" x 6", Ø.280" HOLE Please see page 28 for full parts list
42	1	B001280B1BB	ASSY, 16" X 6", 0.280 DIA HOLE, BLACK
43	1	B002280B1BB	ASSY, 16" X 6", 0.280" DIA HOLE, BLACK
44	1	1024.00050.00	GROMMET, SILICONE, 11.4mm ID
45	1	1023.00183.00	FITTING, ELBOW, GROMMET, .375"
46	1	1023.00348.00	HOT WATER INSERT, MANUAL FAUCET
47	1	1071.00055.00	FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM
48	1	1084.00048.00	JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS
49	1	1003.00370.00	HOT WATER INSERT LOCK
50	1	1025.00082.00	TUBE, 5/8"OD X 3/8"ID X 19.00"LG.
51	1	1023.00346.00	HOT WATER INSERT, AUTO FAUCET
52	1	1029.00041.00	COVER, AUTO HOT WATER FAUCET, SILICONE
53	1	1023.00347.00	VALVE MOUNT, HOT WATER DISPENSER
54	2	1057.00076.00	VALVE ASSEMBLY, COMPLETE, NG, DELTROL
55	1	1025.00026.00	TUBE, 1/4"OD X 1/8"ID X 25"LG, VENT, HOT WATER VAPOR
56	1	1025.00138.00	TUBE, SILICONE, 3/4" OD X 1/2" ID X 2.5" LG, HOT WATER
57	1	1024.00051.00	GROMMET, SILICONE, BLANK
58	1	1023.00349.00	HOT WATER INSERT, NO FAUCET
59	1	1029.00040.00	BYPASS T-TUBE, SILICONE, 2200 DUAL SERIES
60	1	1023.00345.00	ORIFICE INSERT, QUICK CONNECT
61	1	1023.00344.00	PLUG INSERT, QUICK CONNECT
62	1	1102.00445.00	ASSY, BREW BASKET LOCKER W/FEEDBACK
63	1	1003.00259.00	BRACKET, BREW BASKET LOCK COVER
64	2	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
65	1	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
66	3	1073.00007.00	LEG, FLANGE FOOT, 4" HIGH
			L CONNECTOR OLAMB MON METALLIO CARLE CAN
67	1	1086.00008.00	CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4"
67 68	1	1086.00031.00	SKINTOP, 3/4" NPT, 0.354" - 0.630" DIA CABLE, BLK
67 68 69	1 1 1	1086.00031.00 1086.00032.00	SKINTOP, 3/4" NPT, 0.354" - 0.630" DIA CABLE, BLK LOCKNUT, SKINTOP, 3/4" NPT, BLACK HEX
67 68 69 70	1 1 1 1	1086.00031.00 1086.00032.00 1044.00013.00	SKINTOP, 3/4" NPT, 0.354" - 0.630" DIA CABLE, BLK LOCKNUT, SKINTOP, 3/4" NPT, BLACK HEX LABEL EQUIPOTENTIALITY, CE
67 68 69	1 1 1	1086.00031.00 1086.00032.00	SKINTOP, 3/4" NPT, 0.354" - 0.630" DIA CABLE, BLK LOCKNUT, SKINTOP, 3/4" NPT, BLACK HEX



		CBS-2252	Hot Water Tank Drawing 1104.00161.00 & 1104.00164.00
Ref#	Qty	Part number	Description
1	1	1114.00164.00	WELDMENT TANK, CBS-2252, LASER
2	3	1024.00115.00	TANK GASKET - NG HEATER PLATE, ONE ELEMENT
3	3	1114.00181.00	WELDMENT TANK HEATER BRACKET, NG-2232
4	5	1024.00050.00	GROMMET, SILICONE, 11.4mm ID
5	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN
6	2	1023.00203.00	FITTING, STRAIGHT, GROMMET, .625"
7	2	1003.00140.00	ALUMINUM BRACKET FOR SSR
8	2	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR
9	4	1081.00042.00	STANDOFF, 1/4" HEX
10	3	1107.00005.00	ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC
10	3	1107.00007.00	ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC
10	3	1107.00032.00	ASSEMBLY, IMMERSION HEATER, 5000W, 240VAC
11	2	1024.00053.00	LEVEL AND TEMP PROBE GROMMET
12	2	1023.00212.00	FITTING, ELBOW, GROMMET, .500"
13	1	1112.00019.00	PROBE WELDMENT, WATER LEVEL 2.600" LG
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG
15	2	1053.00052.00	THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A
16	16	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
17	16	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
18	2	1024.00054.00	GROMMET, SILICONE PLUG
19	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE
20	1	1022.00070.00	INSULATION, TANK FRONT, CBS-2152
21	1	1022.00071.00	INSULATION, TANK BACK, CBS-2152
22	4	1082.00136.00	BRASS SCREW, #8-32 X 1/4", PHILLIPS PAN HEAD

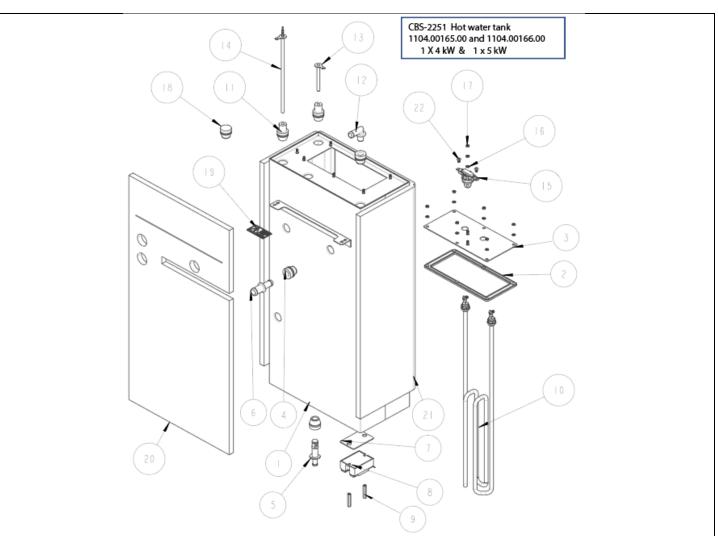


			Hot Water Tank Drawing 1104.00161.00 & 1104.00164.00	
Ref#	Qty	Part number	Description	
1	1	1114.00164.00	WELDMENT TANK, CBS-2252, LASER	
2	3	1024.00115.00	TANK GASKET - NG HEATER PLATE, ONE ELEMENT	
3	3	1114.00181.00	WELDMENT TANK HEATER BRACKET, NG-2232	
4	5	1024.00050.00	GROMMET, SILICONE, 11.4mm ID	
5	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN	
6	2	1023.00203.00	FITTING, STRAIGHT, GROMMET, .625"	
7	2	1003.00140.00	ALUMINUM BRACKET FOR SSR	
8	2	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR	
9	4	1081.00042.00	STANDOFF, 1/4" HEX	
10	2	1107.00005.00	ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC	
10	2	1107.00032.00	ASSEMBLY, IMMERSION HEATER, 5000W, 240VAC	
11	2	1024.00053.00	LEVEL AND TEMP PROBE GROMMET	
12	2	1023.00212.00	FITTING, ELBOW, GROMMET, .500"	
13	1	1112.00019.00	PROBE WELDMENT, WATER LEVEL 2.600" LG	
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG	
15	2	1053.00052.00	THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A	
16	16	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER	
17	16	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED	
18	2	1024.00054.00	GROMMET, SILICONE PLUG	
19	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE	
20	1	1022.00070.00	INSULATION, TANK FRONT, CBS-2152	
21	1	1022.00071.00	INSULATION, TANK BACK, CBS-2152	
22	4	1082.00136.00	BRASS SCREW, #8-32 X 1/4", PHILLIPS PAN HEAD	

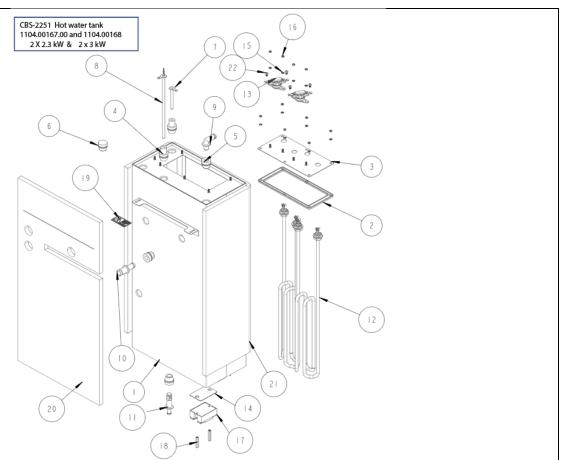


Ref	Qty	Part Number	Description Drawing 1101.00562.00 CBS-2251	
1	1	1111.00100.00	WELDMENT BODY, CBS-2251	
2	8	1084.00051.00	NUT, HEX LOCKWASHER, #8-32, 18-8 ST. STL.	
3	1	1102.00448.00	FRONT PANEL ASSEMBLY, CBS-2200 SERIES	
4	2	1082.00020.00	SCREW, #6 X 5/8, TRUSS HD PHIL, SHEET MTL	
5	2	1082.00058.00	SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS	
6	1	1102.00449.00	ELECTRICAL COMPONENT LATTICE, CBS-2200 Please see page 26 for full parts list	
7	1	1102.00444.00	VISUAL COMMUNICATION RGB LED BAR, ASSY	
8	4	1081.00006.00	SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P	
9	1	1051.00046.00	CBS-2200 SERIES, I/O BOARD, 24V	
10	4	1029.00006.00	NUT, FINGER KNURLED, #4-40	
			Parts list continues next page	

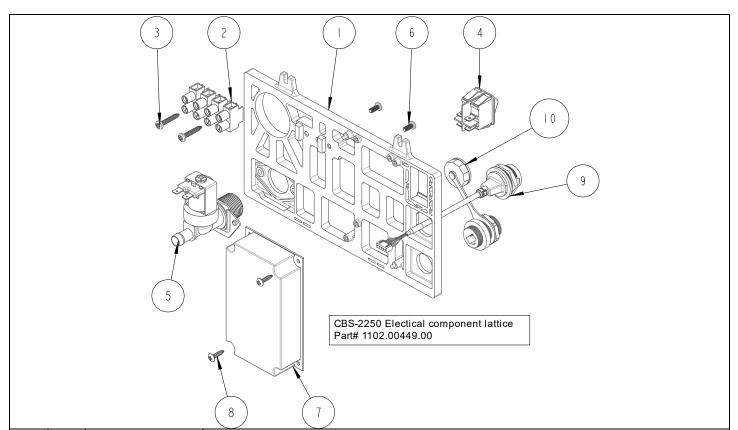
Б.	01	D (N)	D : 11		
Ref	Qty	Part Number	Description Drawing 1101.00562.00 CBS-2251Continued from page 21		
11	1	1102.00450.00	QUICK CONNECT SPRAYHEAD ASSEMBLY, BASIC Please see page 27 for full parts list		
12	2	1024.00107.00	O-RING, 1 3/16" OD X 1 1/16" ID X 1/16" TH, BYPASS SEAL		
13	1	1024.00108.00	O-RING, 5 11/16"OD X 5 1/2" ID X 3/32" TH, BREW SEAL		
14	2	1024.00106.00	O-RING, 13/16"OD X 11/16"ID X 1/16" TH, FOR QUICK CONNECT		
15	1	1023.00343.00	VENT INSERT, QUICK CONNECT		
16	3	1023.00342.00	QUICK CONNECT CLIP		
17	8	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL		
18	8	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW		
19	1	1024.00098.00	VENT TUBE, CBS-XTS/XV+ EXTRACTOR SERIES		
20	1	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE		
21	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE		
22	2	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM		
23	1	1044.00012.00	LABEL GROUND, CE		
	12				
24	1	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH		
25	1	1025.00058.00	TUBE, 9/16"OD X 5/16"ID X 25.00"LG		
26	1	1086.00009.00	CLAMP, 3/4" MAX TUBE OD FLOW CONTROL		
27	4	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP		
28	1	1112.00529.00	WELDMENT FRONT COVER, CBS-2250		
29	1	1001.00402.00	COVER TOP, CBS-2251		
30	1	1001.00403.00	COVER, UPPER BASE, CBS-2251		
31	12	1082.00017.00	SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.		
32	1	1046.00035.00	LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE"		
33	1	1402.00106.00	HARNESS, CBS-2240/50-NG, LOW AMP, UNIVERSAL		
34	1	1063.00042.00	ETHERNET CABLE, CAT-7, 5FT LENGTH		
35	1	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"		
36	1	1104.00167.00	COMPLETE TANK ASSEMBLY, CBS-2251, 2 X 2.3KW/240VAC		
36	1	1104.00168.00	COMPLETE TANK ASSEMBLY, CBS-2251, 2 X 3KW/240VAC		
36	1	1104.00165.00	COMPLETE TANK ASSEMBLY, CBS-2251, 2 X 4KW/240VAC		
36	1	1104.00166.00	COMPLETE TANK ASSEMBLY, CBS-2251, 2 X 5KW/240VAC		
37	1	1402.00061.01	HARNESS HIGH AMP, CBS-1151-XV+		
38	1	B015280BN2	BB ASSEMBLY, 16" x 6", Ø.280" HOLE Please see page 28 for full parts list		
	4	B001280B1	BB ASSY, 16" X 6", 0.280 DIA HOLE, BLACK		
39	1 1	I DUU IZOUD I	I DD AGGI. 10 A U. U.ZOU DIA HOLE, DLAGN		
39 40	1				
40	1	B002280B1	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK		
40 41	1 2	B002280B1 1024.00050.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID		
40 41 42	1 2 1	B002280B1 1024.00050.00 1023.00183.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375"		
40 41 42 43	1 2 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET		
40 41 42 43 44	1 2 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM		
40 41 42 43 44 45	1 2 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS		
40 41 42 43 44 45 46	1 2 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK		
40 41 42 43 44 45 46 47	1 2 1 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG.		
40 41 42 43 44 45 46 47 48	1 2 1 1 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00 1023.00346.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET		
40 41 42 43 44 45 46 47 48	1 2 1 1 1 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00 1023.00346.00 1029.00041.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE		
40 41 42 43 44 45 46 47 48 49	1 2 1 1 1 1 1 1 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00 1023.00346.00 1029.00041.00 1023.00347.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE VALVE MOUNT, HOT WATER DISPENSER		
40 41 42 43 44 45 46 47 48 49 50 51	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00 1023.00346.00 1029.00041.00 1023.00347.00 1025.00026.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE VALVE MOUNT, HOT WATER DISPENSER TUBE, 1/4"OD X 1/8"ID X 25"LG, VENT, HOT WATER VAPOR		
40 41 42 43 44 45 46 47 48 49 50 51 52	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00 1023.00346.00 1029.00041.00 1023.00347.00 1025.00026.00 1057.00076.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE VALVE MOUNT, HOT WATER DISPENSER TUBE, 1/4"OD X 1/8"ID X 25"LG, VENT, HOT WATER VAPOR VALVE ASSEMBLY, COMPLETE, NG, DELTROL		
40 41 42 43 44 45 46 47 48 49 50 51 52 53	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00 1023.00346.00 1029.00041.00 1023.00347.00 1025.00026.00 1057.00076.00 1025.00138.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE VALVE MOUNT, HOT WATER DISPENSER TUBE, 1/4"OD X 1/8"ID X 25"LG, VENT, HOT WATER VAPOR VALVE ASSEMBLY, COMPLETE, NG, DELTROL TUBE, SILICONE, 3/4" OD X 1/2" ID X 2.5" LG, HOT WATER		
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00 1023.00346.00 1029.00041.00 1023.00347.00 1025.00026.00 1057.00076.00 1025.00138.00 1024.00051.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE VALVE MOUNT, HOT WATER DISPENSER TUBE, 1/4"OD X 1/8"ID X 25"LG, VENT, HOT WATER VAPOR VALVE ASSEMBLY, COMPLETE, NG, DELTROL TUBE, SILICONE, 3/4" OD X 1/2" ID X 2.5" LG, HOT WATER GROMMET, SILICONE, BLANK		
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00 1023.00346.00 1029.00041.00 1023.00347.00 1025.00026.00 1057.00076.00 1025.00138.00 1024.00051.00 1023.00349.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE VALVE MOUNT, HOT WATER DISPENSER TUBE, 1/4"OD X 1/8"ID X 25"LG, VENT, HOT WATER VAPOR VALVE ASSEMBLY, COMPLETE, NG, DELTROL TUBE, SILICONE, 3/4" OD X 1/2" ID X 2.5" LG, HOT WATER GROMMET, SILICONE, BLANK HOT WATER INSERT, NO FAUCET		
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00 1023.00346.00 1029.00041.00 1023.00347.00 1025.00026.00 1057.00076.00 1025.00138.00 1024.00051.00 1023.00349.00 1023.00349.00 1023.00203.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE VALVE MOUNT, HOT WATER DISPENSER TUBE, 1/4"OD X 1/8"ID X 25"LG, VENT, HOT WATER VAPOR VALVE ASSEMBLY, COMPLETE, NG, DELTROL TUBE, SILICONE, 3/4" OD X 1/2" ID X 2.5" LG, HOT WATER GROMMET, SILICONE, BLANK HOT WATER INSERT, NO FAUCET FITTING, STRAIGHT, GROMMET, .625"		
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00 1023.00346.00 1029.00041.00 1025.00026.00 1057.00076.00 1025.00138.00 1024.00051.00 1023.00349.00 1023.00349.00 1023.00203.00 1025.00136.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE VALVE MOUNT, HOT WATER DISPENSER TUBE, 1/4"OD X 1/8"ID X 25"LG, VENT, HOT WATER VAPOR VALVE ASSEMBLY, COMPLETE, NG, DELTROL TUBE, SILICONE, 3/4" OD X 1/2" ID X 2.5" LG, HOT WATER GROMMET, SILICONE, BLANK HOT WATER INSERT, NO FAUCET FITTING, STRAIGHT, GROMMET, .625" TUBE, SILICONE, 3/4" OD X 1/2" ID X 4.25" LG, BREW		
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1003.00370.00 1025.00082.00 1023.00346.00 1029.00041.00 1025.00026.00 1057.00076.00 1025.00138.00 1024.00051.00 1023.00349.00 1023.00349.00 1023.00203.00 1025.00136.00 1025.00136.00 1025.00136.00 1023.00345.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE VALVE MOUNT, HOT WATER DISPENSER TUBE, 1/4"OD X 1/8"ID X 25"LG, VENT, HOT WATER VAPOR VALVE ASSEMBLY, COMPLETE, NG, DELTROL TUBE, SILICONE, 3/4" OD X 1/2" ID X 2.5" LG, HOT WATER GROMMET, SILICONE, BLANK HOT WATER INSERT, NO FAUCET FITTING, STRAIGHT, GROMMET, .625" TUBE, SILICONE, 3/4" OD X 1/2" ID X 4.25" LG, BREW ORIFICE INSERT, QUICK CONNECT, 5/16" HOLE		
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40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1025.00082.00 1023.00346.00 1029.00041.00 1023.00347.00 1025.00026.00 1025.00026.00 1057.00076.00 1025.00138.00 1024.00051.00 1023.00349.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1023.00345.00 1083.0009.00 1084.00010.00 1086.00008.00 1086.00031.00 1086.00032.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE VALVE MOUNT, HOT WATER DISPENSER TUBE, 1/4"OD X 1/8"ID X 25"LG, VENT, HOT WATER VAPOR VALVE ASSEMBLY, COMPLETE, NG, DELTROL TUBE, SILICONE, 3/4" OD X 1/2" ID X 2.5" LG, HOT WATER GROMMET, SILICONE, BLANK HOT WATER INSERT, NO FAUCET FITTING, STRAIGHT, GROMMET, .625" TUBE, SILICONE, 3/4" OD X 1/2" ID X 4.25" LG, BREW ORIFICE INSERT, QUICK CONNECT, 5/16" HOLE PLUG INSERT, QUICK CONNECT, 5/16" HOLE PLUG INSERT, QUICK CONNECT ASSY, BREW BASKET LOCKER W/FEEDBACK WASHER, #6 SCREW, INTL TOOTH LOCKWASHER NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED BRACKET, BREW BASKET LOCK COVER LEG, FLANGE FOOT, 4" HIGH CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4" SKINTOP, 3/4" NPT, 0.354" - 0.630" DIA CABLE, BLK LOCKNUT, SKINTOP, 3/4" NPT, BLACK HEX		
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1	B002280B1 1024.00050.00 1023.00183.00 1023.00348.00 1071.00055.00 1084.00048.00 1025.00082.00 1023.00346.00 1029.00041.00 1023.00347.00 1025.00026.00 1057.00076.00 1025.00138.00 1024.00051.00 1023.00345.00 1086.0009.00 1086.0009.00 1086.00032.00 1086.00032.00 1044.00013.00	BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, 11.4mm ID FITTING, ELBOW, GROMMET, .375" HOT WATER INSERT, MANUAL FAUCET FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS HOT WATER INSERT LOCK TUBE, 5/8"OD X 3/8"ID X 19.00"LG. HOT WATER INSERT, AUTO FAUCET COVER, AUTO HOT WATER FAUCET, SILICONE VALVE MOUNT, HOT WATER DISPENSER TUBE, 1/4"OD X 1/8"ID X 25"LG, VENT, HOT WATER VAPOR VALVE ASSEMBLY, COMPLETE, NG, DELTROL TUBE, SILICONE, 3/4" OD X 1/2" ID X 2.5" LG, HOT WATER GROMMET, SILICONE, BLANK HOT WATER INSERT, NO FAUCET FITTING, STRAIGHT, GROMMET, .625" TUBE, SILICONE, 3/4" OD X 1/2" ID X 4.25" LG, BREW ORIFICE INSERT, QUICK CONNECT, 5/16" HOLE PLUG INSERT, QUICK CONNECT ASSY, BREW BASKET LOCKER W/FEEDBACK WASHER, #6 SCREW, INTL TOOTH LOCKWASHER NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED BRACKET, BREW BASKET LOCK COVER LEG, FLANGE FOOT, 4" HIGH CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4" SKINTOP, 3/4" NPT, 0.354" - 0.630" DIA CABLE, BLK LOCKNUT, SKINTOP, 3/4" NPT, BLACK HEX LABEL EQUIPOTENTIALITY, CE		
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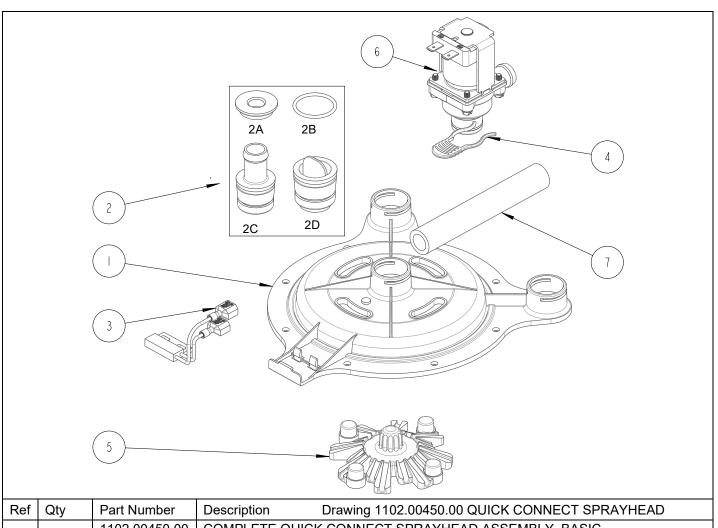
TANK ASSY, CBS-2251 Single Heater Drawing number 1104.000165.00 & 1104.000166.00			1 Single Heater Drawing number 1104.000165.00 & 1104.000166.00		
REF	QTY	Part number	Description		
1	1	1114.00172.00	WELDMENT, TANK, CBS-2251		
2	1	1024.00114.00	TANK GASKET - NG HEATER PLATE, TWO ELEMENT		
3	1	1114.00184.00	WELDMENT TANK HEATER BRACKET, NG-2231, SINGLE		
4	3	1024.00050.00	GROMMET, SILICONE, 11.4mm ID		
5	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN		
6	1	1023.00203.00	FITTING, STRAIGHT, GROMMET, .625"		
7	1	1003.00140.00	ALUMINUM BRACKET FOR SSR		
8	1	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR		
9	2	1081.00042.00	STANDOFF, 1/4" HEX		
10	1	1107.00037.00	HEATER ASSEMBLY, IMMERSION, 2300W, 240VAC		
10	1	1107.00005.00	HEATER ASSEMBLY, IMMERSION, 3000W, 240VAC		
10	1	1107.00007.00	HEATER ASSEMBLY, IMMERSION 4000W, 240VAC		
10	1	1107.00032.00	HEATER ASSEMBLY, IMMERSION 5000W, 240VAC		
11	2	1024.00053.00	LEVEL AND TEMP PROBE GROMMET		
12	1	1023.00212.00"	FITTING, ELBOW, GROMMET, .500		
13	1	1112.00019.00	PROBE WELDMENT, WATER LEVEL 2.600" LG		
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG		
15	1	1053.00052.00	THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A		
16	8	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER		
17	8	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED		
18	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE		
19	1	1024.00051.00	GROMMET, SILICONE, BLANK		
20	1	1022.00068.00	INSULATION, TANK FRONT, CBS-2151		
21	1	1022.00069.00	INSULATION, TANK BACK, CBS-2151		
22	2	1082.00136.00	BRASS SCREW, #8-32 X 1/4", PHILLIPS PAN HEAD		



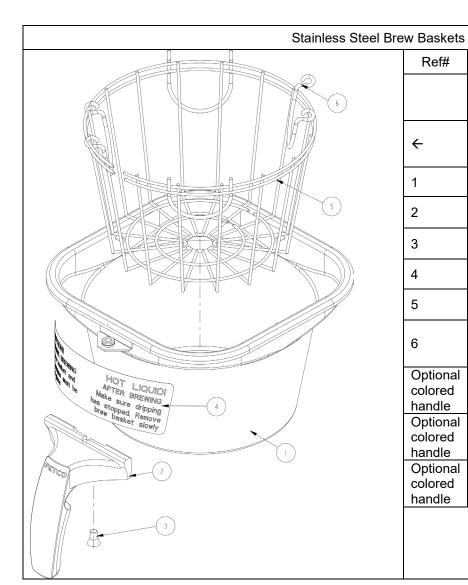
TANK ASSY, CBS-2251 Two Heater				
REF	QTY	Part number	Description	
1	1	1114.00172.00	WELDMENT, TANK, CBS-2251	
2	1	1024.00114.00	TANK GASKET - NG HEATER PLATE, TWO ELEMENT	
3	1	1114.00176.00	WELDMENT TANK HEATER BRACKET, NG-2231	
4	3	1024.00050.00	GROMMET, SILICONE, 11.4mm ID	
5	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN	
6	1	1023.00203.00	FITTING, STRAIGHT, GROMMET, .625"	
7	2	1003.00140.00	ALUMINUM BRACKET FOR SSR	
8	2	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR	
9	4	1081.00042.00	STANDOFF, 1/4" HEX	
10	2	1107.00037.00	HEATER ASSEMBLY, IMMERSION, 2300W, 240VAC	
10	2	1107.00005.00	HEATER ASSEMBLY, IMMERSION, 3000W, 240VAC	
10	2	1107.00007.00	HEATER ASSEMBLY, IMMERSION 4000W, 240VAC	
10	2	1107.00032.00	HEATER ASSEMBLY, IMMERSION 5000W, 240VAC	
11	2	1024.00053.00	LEVEL AND TEMP PROBE GROMMET	
12	1	1023.00212.00	FITTING, ELBOW, GROMMET, .500"	
13	1	1112.00019.00	PROBE WELDMENT, WATER LEVEL 2.600" LG	
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG	
15	2	1053.00052.00	THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A	
16	10	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER	
17	10	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED	
18	1	1024.00051.00	GROMMET, SILICONE, BLANK	
19	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE	
20	1	1022.00068.00	INSULATION, TANK FRONT, CBS-2151	
21	1	1022.00069.00	INSULATION, TANK BACK, CBS-2151	
22	4	1082.00136.00	BRASS SCREW, #8-32 X 1/4", PHILLIPS PAN HEAD	



Ref	Qty	Part Number	Description Electrical component lattice, CBS-2200 Part#1102.00449.00	
		1102.00449.00	COMPLETE ELECTRICAL COMPONENT LATTICE, CBS-2200	
1	1	1023.00350.00	ELECTRICAL MOUNTING LATTICE, COMMON	
2	1	1052.00023.00	EUROSTRIP HE16 TERM. BLOCK, 4 POLE, 63 AMP, 18-8 AWG	
3	2	1082.00056.00	SCREW, #8-11 X 1" PAN HD PHIL, THREAD FORMING	
4	1	1058.00024.00	SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC	
5	1	1057.00043.00	SOLENOID VALVE, 5.5L/min, 180 DEG, 24VDC	
6	2	1082.00010.00	SCREW, PAN HD. PHIL. MACH., M4x10 ZINC-PLATED	
7	1	1052.00059.00	POWER SUPPLY, 90-264VAC/24VDC, 2.25A	
8	2	1082.00020.00	SCREW, #6 X 5/8, TRUSS HD PHIL, SHEET MTL	
9	1	1058.00055.00	USB CONNECTOR	
10	1	1058.00162.00	ETHERNET PLUG IN CONNECTOR, W/COVER	



Ref	Qty	Part Number	Description Drawing 1102.00450.00 QUICK CONNECT SPRAYHEAD	
		1102.00450.00	COMPLETE QUICK CONNECT SPRAYHEAD ASSEMBLY, BASIC	
1	1	1023.00341.00	BASE, QUICK CONNECT SPRAYHEAD	
2A	1	1023.00345.00	(Bypass Valve) ORIFICE INSERT, QUICK CONNECT, 5/16" HOLE	
2B	3	1024.00106.00	O-RING, 13/16"OD X 11/16"ID X 1/16" TH, FOR QUICK CONNECT	
2C	1	1023.00343.00	VENT INSERT, QUICK CONNECT	
2D	?	1023.00344.00	PLUG INSERT, QUICK CONNECT	
3	1	1102.00113.00	SWITCH, REED, ASSEMBLY	
4	3	1023.00342.00	QUICK CONNECT CLIP	
5	1	1102.00043.00	CASCADE SPRAY DOME, CBS-2050/60'S	
6	1 or 2	1057.00076.00	VALVE ASSEMBLY, COMPLETE, NG, DELTROL	
7	1	1025.00136.00	TUBE, SILICONE, 3/4" OD X 1/2" ID X 4.25" LG, BREW	



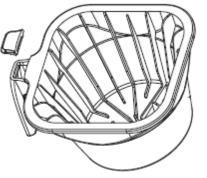
W Daskets				
Ref#	Part Number	Description		
	B001280B1	Complete Stainless Steel Brew basket no clips		
←	B002280B1	Complete Stainless Steel Brew basket with clips		
1	1112.00058.00	BB brew cone WLDMNT		
2	1046.00025.00	BREW BASKET WARNING LABEL		
3	1082.00040.00	SCREW, 1/4-20 X .5, FL HD, PH., W/NYLN		
4	1009.00005.00	WIRE BASKET		
5	1102.00064.00	HANDLE W/MAGNET ASY, BLACK		
6	1009.00003.00	CLIP, WIRE BASKET, NOTE!: Requires <u>4 clips</u>		
Optional colored handle	1102.00065.00	HANDLE W/MAGNET RED		
Optional colored handle	1102.00066.00	HANDLE W/MAGNET GREEN		
Optional colored handle	1102.00067.00	HANDLE W/MAGNET ORANGE		
		•		

Plastic Brew Basket Parts

Part Number B015280BN2 - Complete Plastic Brew Basket

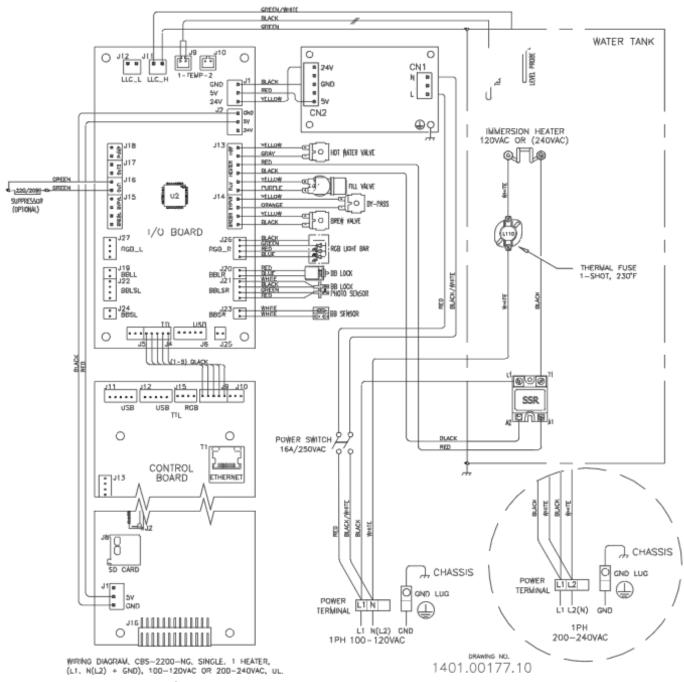
Brown colored insert is standard

Brew basket handle plug for polymeric brew baskets is available in optional colors.

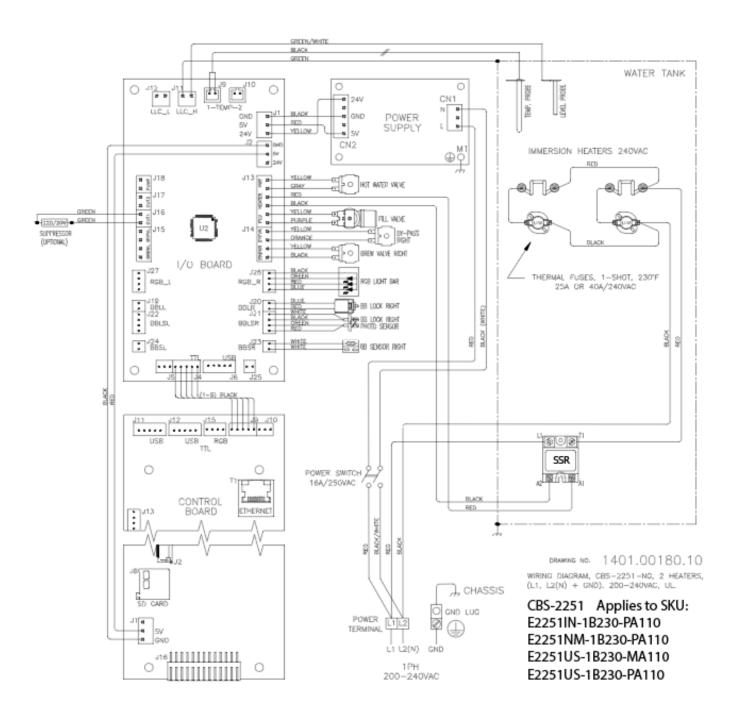


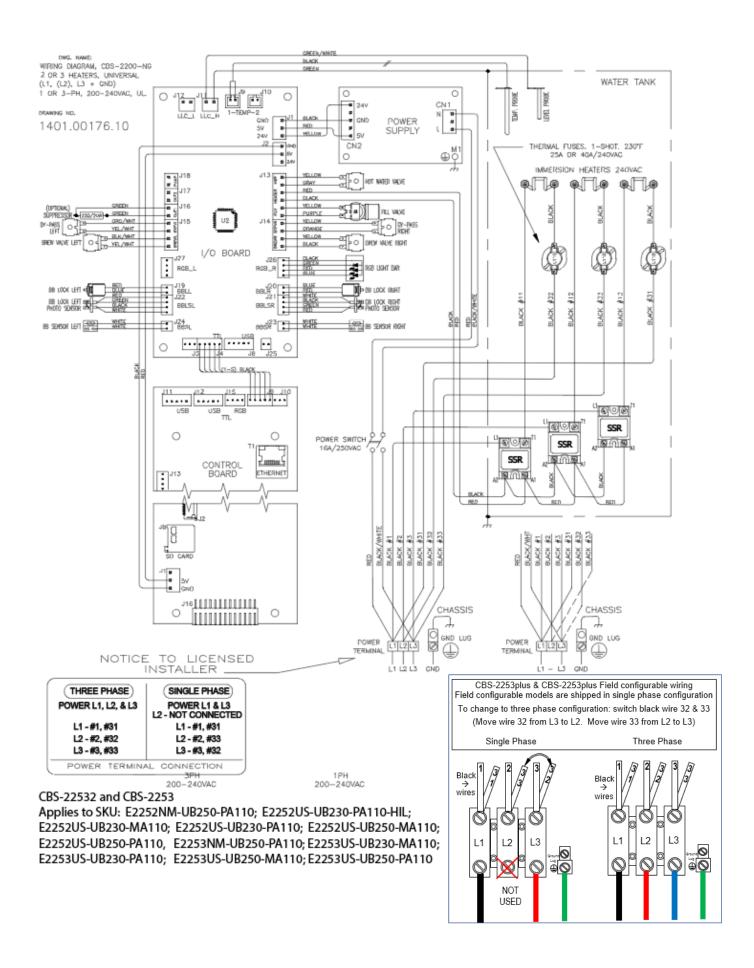
Part Number	Plug Insert color
1023.00195.00 BR	OWN PLUG, BB HANDLE
1023.00194.00 BLA	ACK PLUG, BB HANDLE
1023.00190.00 REI	D PLUG, BB HANDLE
1023.00191.00 GR	EEN PLUG, BB HANDLE
1023.00192.00 OR	ANGE PLUG, BB HANDLE
1023.00180.00 BL	UE PLUG, BB HANDLE

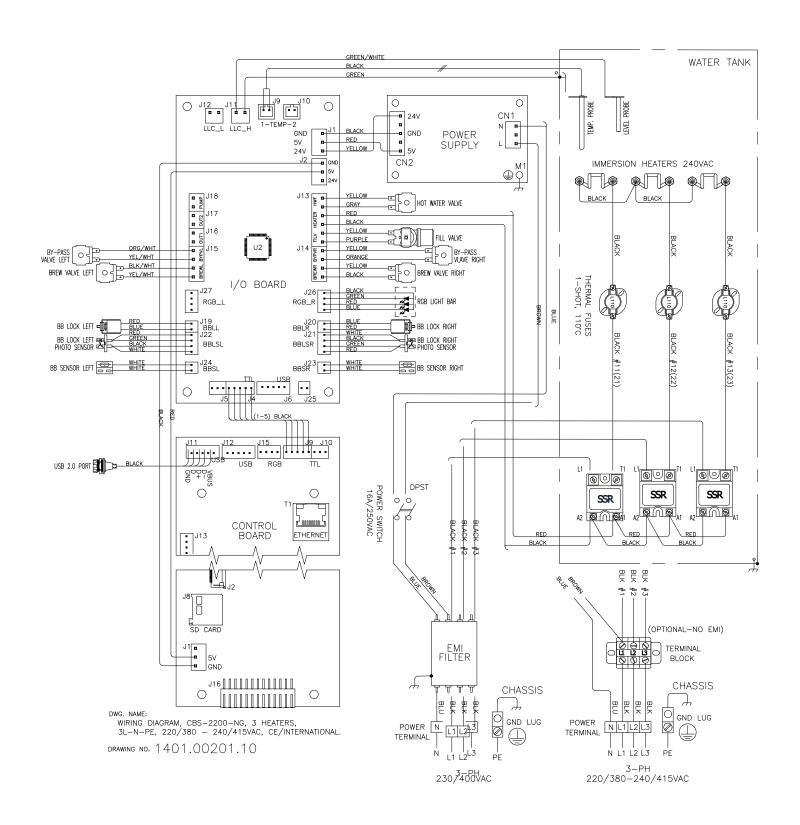
Wiring Diagrams



CBS-2251 Applies to SKU: E2251IN-1B140-PA110 E2251IN-1B150-PA110







Applies to SKU: E2253CE-3B350-PA110, E2253CE-3B350-PM110, E2253IN-3B330-PA110, E2253IN-3B340-PA110, E2253IN-3B350-PA110

