Instructions to access the Programming Menu



Programming-category screens: Menu Tree Menu Features: Batch Parameters
XTS Main Menu
Menu Chart



<Copy From B.>

PROGRAM	Programming Items	Factory set Default	Programming Range	Notes
Batch 1 *	Batch Summary	Display Summary	Batch1 SummaryBatch Name1Brew Temp.90°CBrew Volume 4.00Liter	Summary-continued Bypass Delay 1:00 Number of Pulses 4 Prewet Percent 0%
			Brew Time 6:00 Bypass Vol. 2.00 Liter Total Time 9:30	Prewet Delay 0:00 Drip Delay 1:30 Alarm At End NO
	Batch Temp	90 °C	90 °C 80 97	This sets the brew temperature for batch-1
	Brew Volume	4.00 liter [0.50-4:00]	4.00 liter	Volume of Coffee (tea to hot water bypass [2:1])
	Bypass Volume	2.00 liter	2.00 liter	Volume of HOT water to add to hot brew
	Bypass Delay	1:00 mm:ss	1:00 mm:ss <u> _[]</u> 0:00 12:00	Allows for hot water tank recovery
	Prewet Percent	0%	0 % _0 0 15	Prewetting helps stabilize ground coffee
Pause after prewet spray completes	Prewet Delay.	0:00 mm:ss	0:00 mm:ss	This feature appears ONLY if Prewet >0:00
	Brew Time	6:00 mm:ss	6:00 mm:ss	
	Nr Of Pulses	4	4 [30	
This is a <u>Safety Feature</u>	• Drip Delay	1:30 mm:ss	1:30 mm:ss I 0:30 10:00	NEVER remove brewbasket during drip-out
	Alarm at End	NO	NO [] NO	
Notice→	*Batcl Batch 2,3,4,6,7&	nes 1 <u>&</u> 5 are mandato 8 may each be selectiv	ry and are always permaner rely hidden with the <mark>Batch O</mark>	ntly selected N/OFF selector screen
Batch 2	Batch ON/OFF	ON	ON ON OFF	
	 Batch Summary 	Display Summary		[See BATCH 1]
	Batch Temp	90 °C	90 °C	This sets the brew temperature for batch-1
	Brew Volume	4.00 liter [0.50-4:00]	4.00 liter	Volume of Coffee (tea to hot water bypass [2:1])
	Bypass Volume	2.00 liter	2.00 liter [] 0:00 5.50	Volume of HOT water to add to hot brew
	Bypass Delay	1:00 mm:ss	1:00 mm:ss	Allows for hot water tank recovery
	Prewet Percent	0%	0 % _[] 0 15	Prewetting helps stabilize ground coffee
Pause after prewet spray completes	Prewet Delay.	0:00 mm:ss	0:00 mm:ss	This feature appears ONLY if Prewet >0:00
	Brew Time	6:00 mm:ss	6:00 mm:ss	
	Nr Of Pulses	4	4 1 30	
This is a <u>Safety Feature</u>	Drip Delay	1:30 mm:ss	1:30 mm:ss I 0:30 10:00	NEVER remove brewbasket during drip-out
	Alarm at End	NO	NO	

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PROGRAMMING MENU-Continued

PROGRAM Continued	Programming Items	Factory set Default	Programming Range	Notes
Batch 3	(See Batch 2)			
Batch 4	(See Batch 2)			
Batch 5	(See Batch 1)			
Batch 6	(See Batch 2)			
Batch 7	(See Batch 2)			
Batch 8	(See Batch 2)			
Batch Copy	Copy From Batch	COPY from B.(1-8)?		
	Copy To Batch	COPY to B.(1-8)?		
	Copy?	B1→B2? (example)	NO 1_ YES NO	

*Batch 1& 5 are mandatory and cannot be disabled. Other batches can be disabled ["hidden"], and removed from display

Programming Batch Temperature

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

Tank temperature is too low for brew setup

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

Tank temperature is too high for brew setup

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

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

a) The hot water tank temperature can be quickly lowered by touching the "PURGE" icon for five seconds.

The single purge is adequate for most adjustments.

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

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

c) Tank temperature override

The brew can be started at the high temperature by touching and holding the "START" icon to override the icon. The brew may be exposed to some brewing water that is higher than temperature setpoint.

	Recipe temperature setting table					Purge to lower brew	water temperature		
	GENERAL SETTINGS BY USER		Recipes show the temperature						
	Factory Set Temper		Tempera	ature Summary as Set By User		setting. These can be set by			
1	emperat	ure	Summary		Fill this in and save for future reference		user from 80-97°.	3 🗹 🖽 5.00. 4 🗹 🖽 5.00.	
1	90°C	5	90°C		1	5		PURGE Icon→	
2	90°C	6	90°C		2	6		This will lower hot water tank	
З	90°C	7	90°C		3	7		temperature 3-4 degrees	
4	90°C	8	90°C		4	8			

GENERAL	Programming Items	Factory set Default	Programming R (display)	ange	Notes	
Ready Temp		+/-2°C	+ / - 2°C	 5	Range when "READY" icon will show	
Brew at Temp.	"OFF" allows brewing at any temperature.	AUTO	AUTO		SEE NOTE! (Below)	
Units of Meas. <toggle temp-vol.=""></toggle>	Temperature	°C	°C []_ °F °C			
<toggle temp-vol.=""></toggle>	Volume	Liters	Liters Liters Gallons Liters			
Logo Timeout		1:00 mm:ss	1:00 mm:ss _ [] 0:00 5:00			
	NOTE: FOR BREW AT TEMPERATURE DEFINITONS					
BREW AT TEMP: <u>AUTO</u> (DEFAULT: FACTORY PROGRAMMED INTO BREWER) This allows the "BREW START" to active. If the hot water tank is at the selected temperature—the brew will start. If the temperature is too low— <i>not at the selected temperature</i> , the brewer will wait until the proper temperature is reached and then wil automatically begin brewing. A thermometer icon screen will display showing the tank temperature. (example: right) IMPORTANT: ALWAYS have dispenser(s) under the brew baskets when in the BREW AT TEMP mode.						
BREW AT TEMP: OFF USER SELECTABLE Allows brewing at any temperature. (Not recommended-it is possible to start brew with brew water at incorrect temperature.)						

INPUTS	Programming Items	Factory set Default	Programming Range (display)	Notes
Display Inputs	• Input Summary		Brew Basket Sensor □ Liquid Level Sensor ■ Temperature Probe ■ SD Card □	
Cal. Touch Scr		Calibrate	Calibrate I YES NO	If <u>Yes</u> : Follow directions on the touch screen

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

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

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

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

1) MEASURE THE FLOW RATE:

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



-Place 3 liter/1 gal measuring container under empty brew basket. The water dispensed may be accurately measured or weighed. Use a scale for at least 3 kg/8lb -Press The CAL button. →! The valve will open for one minute

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

Measure the results of the flow in the measuring container and hold the number. 2) **AUTOMATIC** Built-in <u>CALIBRATE THE FLOW RATE</u>

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

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



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

A 3 liter/1 gal measuring container is recommended.

	7		[
	<	OUTPUTS	>	
	<	Brew Valve	>	
	<	Flow Rate	>	
		1218 mlpm		
	-			
_	. 500	20	00.	т.
				т

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

Built in software will automatically calibrate the BREW valve.

Calibration must be repeated for the BYPASS valve

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EXAMPLE: Calibrate BREW VALVE.



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EXAMPLE: Calibrate BYPASS VALVE.



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OTHER	Programming Items	Factory set Default	Programming Range (display)	Notes
Error Codes	Display Errors	(Codes)	1: 2: 3:	Chart on next page
	Reset Errors	(Reset)	Reset Image: Second state YES	IClear only with guidance from factory or service II
Copy Program	• From SD to B.	SD→ Brewer	SD→ Brewer II YES NO	Setup upload Please insert SD card with the setup data!
	• From B to SD	Brewer→ SD	Brewer→ SD I YES NO	Setup download Please insert SD card with sufficient space (≥2GB)
Upload Logo		Upload Logo	UPLOAD LOGO Are you sure	Please insert SD card with logo file!
Res to Factory		Reset to default	Reset to Default Are you sure	Completely overwrites all user setup, including user logo.
Counters	 Display Counters -OR- Reset Counters 	Counters Display Total Counters	TOTAL COUNTERBrews0Brews activated0Brews [liters]0Bypass Activated0Bypass. L [liters]0Fill valve Activated0Fill Valve [liters]0Heater Activated0Heater "on" time0	Resetting will restart counters from zero when selected
	Reset Counters	Reset All Counters	Reset All Counters Are you sure I 	
Firmware	• Firmware Version -Software type	Firmware Version	Display Versions TBS_2111 SW ver. 1.05 HW ver. BL ver. 1.1.4 QP ver. 4.5.03	Displays firmware version
	• Update Firmware	UPDATE	UPDATE I I YES NO	Firmware upload Please insert SD card with the firmware file!
DEMO Mode [Not on all units]	DEMO ON/OFF	May not be included	OFF [[]ON OFF	Demonstrates the controls for training. Disables all components in demo mode.

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