Service Manual – G4 Gemini Twin Coffee Brewer

Important Safeguards/Symbols

This equipment is designed for commercial use. Any servicing other than cleaning and routine maintenance should be performed by an authorized Wilbur Curtis Company Service Technician.

- DO NOT immerse the unit in water or any other liquid
- To reduce the risk of fire or electric shock, DO NOT open service panels. There are no user serviceable parts inside.
- Keep hands and other items away from hot areas of the unit during operation.
- Never clean with scouring powders or harsh chemicals.

Symbols:

WARNINGS – To help avoid personal injury

Important Notes/Cautions – from the factory

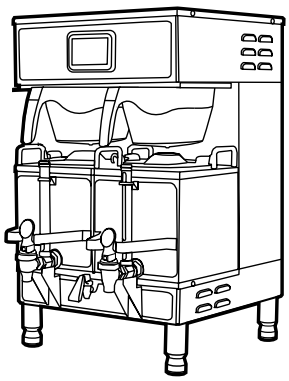
Sanitation Requirements

This Curtis Generation 4 System is factory pre-set and ready to go right from the box.
Following are the factory settings for your G4 Coffee Brewing System:

- *Brew Temperature = 200°F*
- *Water Bypass = On for LARGE & MEDIUM Brew Only*
- *Brew Volume = Set to Vessel Requirement.*

System Requirements:

- *Water Source 20 – 90 psi (minimum flow rate of 1 gpm)*
- *Electrical: See attached schematic for standard model or visit www.wilburcurtis.com for your model.*



Model
- *G4GEMT*

CAUTION: Please use this setup procedure before attempting to use this brewer. Failure to follow the instructions can result in injury or the voiding of the warranty.

IMPORTANT: Equipment to be installed to comply with applicable governmental plumbing/electrical codes having jurisdiction.

CAUTION: DO NOT connect this brewer to hot water. The inlet valve is not rated for hot water.

SETUP STEPS

1. The unit should be level (left to right - front to back), on a secure surface.
2. Connect the water line to the water inlet fitting on the rear of the unit. Water volume flow to the machine should be consistent. Use tubing sized sufficiently to provide a minimum flow rate of one gallon per minute.

NOTE: A water filtration system must be used to help maintain trouble-free operation. **Air must be purged from the cartridge prior to connection to equipment.** In areas with extremely hard water, we highly recommend the use of a Curtis approved water filter. For our full line of filters, please log on to www.wilburcurtis.com.

NSF International requires the following water connection:

1. *A quick disconnect or additional coiled tubing (at least 2x the depth of the unit) is required so that the unit can be moved for cleaning.*
2. *This unit must be installed with adequate backflow protection to comply with applicable federal, state and local codes.*
3. *Water pipe connections and fixtures directly connected to a portable water supply shall be sized, installed and maintained in accordance with federal, state, and local codes.*

3. Connect the unit to electrical outlet with appropriate amperage rating (see serial tag on machine).
4. Once power has been supplied to the unit, flip the toggle switch to the 'ON' position (located on the rear of the unit), the water tank will begin to fill. When the water level in the tank reaches the probe, the heating element(s) will turn on.
5. Water in the heating tank will require approximately a half hour before reaching operating temperature (factory setting of 200°F). Where applicable, turn on the universal control module (UCM). When the unit reaches operating temperature, it will display "READY TO BREW".

ISO 9001:2008 REGISTERED

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QUICK START

Your Curtis G4/Gold Cup Series is factory pre-set for optimum performance.
After connection to water and power; turn on the brewer at the rear toggle switch. You will hear a beep and the status lights will come on for a moment.

The screen will display MODEL NUMBER / CONTROL BD NUMBER *. Next* FILLING *is displayed. Water will fill the tank (2-3 minutes depending on water flow rate).*

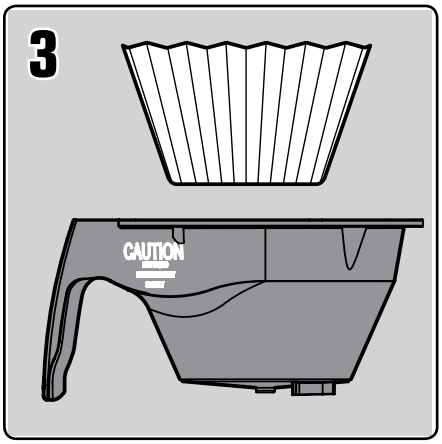
When the proper level is reached HEATING *will appear on the screen. It takes approximately 30 minutes to reach the set point temperature.*

Control will display READY TO BREW *when temperature reaches the set point. The unit is now ready to brew.*

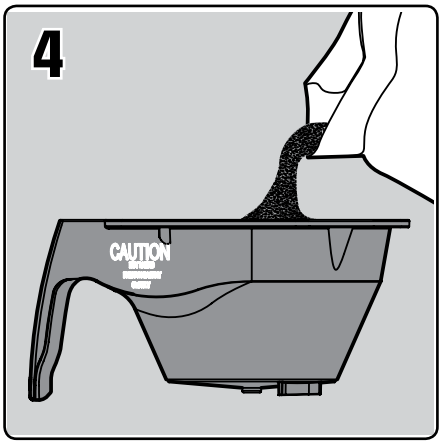
COFFEE BREWING INSTRUCTIONS

1. Brewer should be ON. Confirm this at the toggle switch on the back of the brewer. The touch screen should read Ready to Brew.
2. Place an clean, empty coffee satellite on the warmer deck.

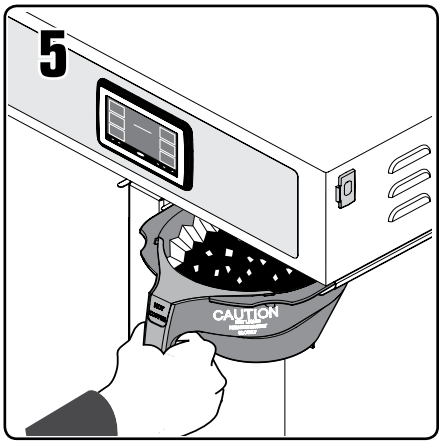
WARNING – AVOID SCALDING: Remove the brew basket carefully. The brew basket contains hot coffee grounds. The coffee vessel is heavy when full. Take precautions to avoid dropping when moving.



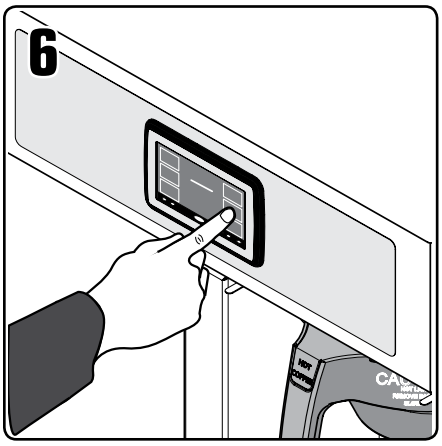
3. Place a new paper filter into the brew basket.



4. Fill the brew basket with the proper amount of ground coffee.



5. Transfer the filled brew basket to the brewer.



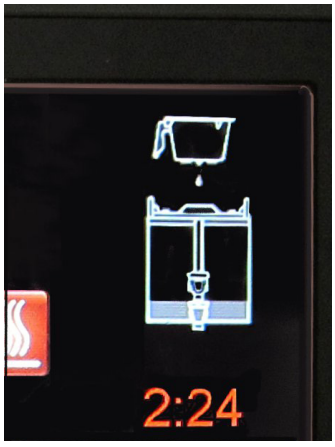
6. Start the brew cycle by hold your finger on the desired brew icon. As soon as you hear the click of the brew valve, the brew cycle has started and you can lift your finger.

Brew Code: You may find that when a brew button is pressed, a key pad appears on the screen. This is a brew lock-out feature that

requires a code to be entered before a brew will start. The default is OFF.

CAUTION: When enabled, as soon as you enter the brew code a brew cycle starts.

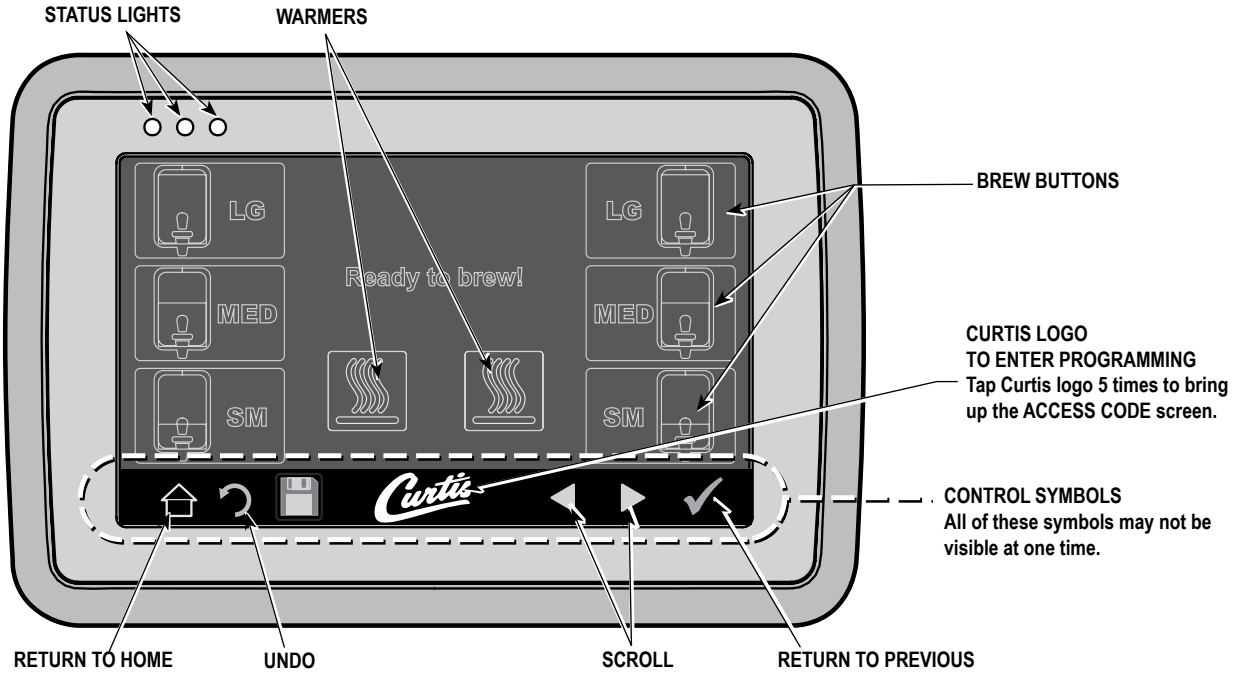
Refer to page 8 for more information about the Brew Code.



During the brew cycle, an animated 1½ gallon satellite server icon will appear on the screen and a brew timer will count down the time remaining on the brew cycle.

Touch Screen Control Module

The touch screen turns on when power is available to the controller. The screen will contain standard control features such as symbols and buttons. Pressing these elements with your finger tip will activate the programming functions. The default screen, as well as some added control buttons are shown in the illustration below.



PROGRAMMING

ACCESS CODE screen. Default is 1 2 3 4. Once the code is entered, press OK. The main menu screen will appear.

The access code can be reset in Control Settings, PASSWORDS.

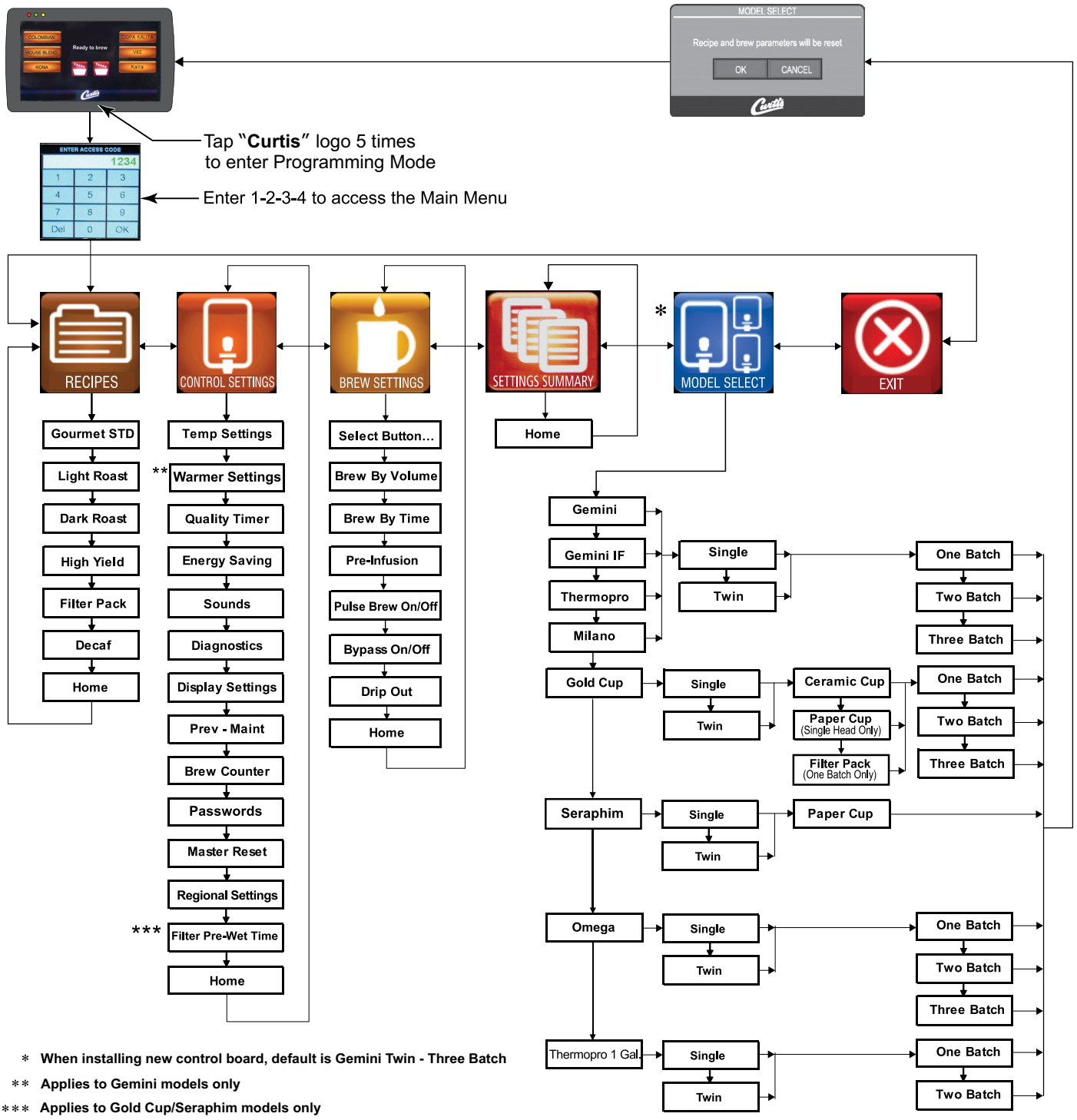
MAIN MENU screen contains six control icons:

RECIPES, CONTROL SETTINGS, BREW SETTINGS, MODEL SELECT, SETTINGS SUMMARY and EXIT.

PROGRAMMING continued . . .

Menu Tree

This chart explains how to enter the program mode and menu selections available from the MAIN MENU.



* When installing new control board, default is Gemini Twin - Three Batch

** Applies to Gemini models only

*** Applies to Gold Cup/Seraphim models only

Menu Features

CONTROL SETTINGS

FUNCTION TO SET	SETTING RANGE	FACTORY SET DEFAULT	NOTES / COMMENTS
Temperature Settings	175°F - 206°F , 1°F increments	Tank Temp = 200°F	
		Minimum Brew Temp = 195°F	
Warmer Settings	Auto-Off: Disabled, 1 Hr-12 Hr, 1 Hr increments	<Disabled on GEMT/GEMS>	This applies to Gemini units only.
	Auto-Off: 1 Hr - 12 Hr, 1 Hr increments	<10 Hr. on GEMTIF/GEMSIF>	This applies to Gemini-IF units only.
	Power: <OFF>, < H>, <MED>, <LOW>	<MED> during brewing	This applies to Gemini and Gemini-IF units only.
Quality Timer	Disabled, 20 Min - 240 Min, 10 minute increments	<Disabled on: GEMT/GEMS/TP2T/TP2S/OMG/ TPC2T/TPC2S/TP1T/TP1S> <120 Min on GEMTIF/GEMSIF>	Audible alarm when time is expired (only shows available when a machine has warmer elements). This function is visible on Gemini and Gemini-IF.
Energy Save Mode (activates after 4 hours of inactivity)	No change	No change	Tank temperature is maintained at the temp setpoint default
	Turn tank heater off		Tank is turned off.
	Reduce tank temp to: 140°F		Tank temperature maintained at 140°F.
Sounds	Beeper On/Off	On	Turns board sounds Off or On
Diagnostics	–	Auto test	Runs diagnostic tests
Display Settings	Brew Timer-Hide/Show	Show	Display brew time
	Quality Timer Hide/Show	Hide (models: GEMT/GEMS/TP2T/TP2S/ OMGT/OMGS/TP1T/TP1S/AlphaGT)	Displays Quality Timer on the screen
		Show (models: GEMTIF/GEMSIF/AlphaGT-FT)	
	"Rinse Server"-Hide/Show	Show	Displays "Rinse Server before Brewing" message
	Screen Saver	Off	Displays various screen saver images
	Display Name	Blank	Displays banner name
	Icon <Original or Bag>	Original	Displays various icons (original or bag)
Prev Maintenance	Maintenance interval	Disabled	Disabled, 1000 to 20,000 gallons, 1000 gallon increments, this applies to GEMT/GEMS/GEMTIF/GEMSIF/TP2T/TP2S/OMG-OMEGA/TP1T/TP1S models only.
		Disabled	Disabled, 100 to 3,000 gallons, 100 gallon increments, this applies to GOLD CUP (CGC) models only.
	Service telephone number	1-800-000-0000 x0000	
Brew Counter	Resettable	Resettable	For maintenance purpose (resettable)
Passwords	Programming	1234	Reprogrammable; allows access to programming screens
	Brew (Enabled/Disabled)	Disabled	Reprogrammable; allows access to brewing screens
Master Reset	Reset	Are you sure? (Yes / No)	Select to reset to restore factory defaults
Regional Settings	SI/US	US	US units or Metric units
	Language	English	Allows to user to select multiple languages
Home	–	–	Select to go to Home Page

Menu Features

Brew Settings

FUNCTION TO SET	SETTING RANGE	LARGE BREW FACTORY SET DEFAULT	MEDIUM BREW FACTORY SET DEFAULT	SMALL BREW FACTORY SET DEFAULT	NOTES/COMMENTS
Brew by Volume	–	200oz ± 8oz (SEE SPEC0013)	132oz ± 6oz SEE (SPEC0013)	64oz ± 4oz (SEE SPEC0013)	To Set: Press Brew to start/Press Brew to stop.
Brew by Time	5 Sec. - 15 Min. 1 second increments	LARGE BREW 5 Min. - 25 Sec.	MEDIUM BREW 3 Min. - 32 Sec.	SMALL BREW 1 Min. - 52 Sec.	Note: These are the default times, using amber spray head
Pre-Infusion	Disabled	Disabled	Disabled	Disabled	OFF
	10 Sec. On/10 Sec. Off				When this is chosen"COLD BREW LOCK set to 5°F, Pulse Brew On/Off" Function <Disabled>
	20 Sec. On/20 Sec. Off				When this is chosen"COLD BREW LOCK set to 5°F, Pulse Brew On/Off" Function <Disabled>
	30 Sec. On/30 Sec. Off				When this is chosen"COLD BREW LOCK set to 5°F, Pulse Brew On/Off" Function <Disabled>
	40 Sec. On/40 Sec. Off				When this is chosen"COLD BREW LOCK set to 5°F, Pulse Brew On/Off" Function <Disabled>
	50 Sec. On/50 Sec. Off				When this is chosen"COLD BREW LOCK set to 5°F, Pulse Brew On/Off" Function <Disabled>
	60 Sec. On/60 Sec. Off				When this is chosen"COLD BREW LOCK set to 5°F, Pulse Brew On/Off" Function <Disabled>
Pulse Brew On/Off	OFF	C	C	C	OFF
	A				A = "10 seconds ON 4 Times"/"10 seconds OFF 4 Times", then "ON" till end of brew cycle.
	B				B = "1 Minute ON", "10 seconds OFF 4 Times"/10 seconds ON 4 Times", till end of brew cycle.
	C				C = "25 seconds ON 5 Times"/"20 seconds OFF 5 Times", then "ON" till end of brew cycle.
	D				D = Manual Program: "PULSE COUNT = 1 to 20 pulses", "ON TIME = 5 - 150 seconds", "OFF TIME = 5 - 150 seconds", 5 second increments.
	E				E = Manual Program: "PULSE COUNT = 1 to 8 pulses", "ON TIME = 0 - 150 seconds", "OFF TIME = 1 - 150 seconds", 1 second increments.
By-Pass On/Off	Off, 5% - 50%, 1% increments	LARGE BREW: 35%	MEDIUM BREW: 10%	SMALL BREW: OFF	Reprogrammable; These are the defaults using amber spray head
Drip-Out Mode	Off, 10 Sec. - 15 Min., 10 second increments	LARGE BREW: 2 Min.	MEDIUM BREW: 2 Min.	SMALL BREW: 2 Min.	Reprogrammable; These are the defaults using amber spray head
Home	–	–	–	–	Select to go to Home Page

Gemini, ThermoPro Global Recipe Defaults

	PULSE	BYPASS_L	BYPASS_M	BYPASS_S	TEMP.	PRE_INF
Gourmet STD *	C	35%	10%	0%	200°	OFF
Light Roast	C	45%	15%	0%	200°	OFF
Dark Roast	OFF	25%	5%	0%	196°	60
High Yield	OFF	35%	10%	0%	192°	60
Filter Pack	C	0%	0%	0%	200°	OFF
Decaf	C	0%	0%	0%	200°	OFF

* Default settings

System Fault Messages

WARNING MESSAGES - ALLOWS BREWING

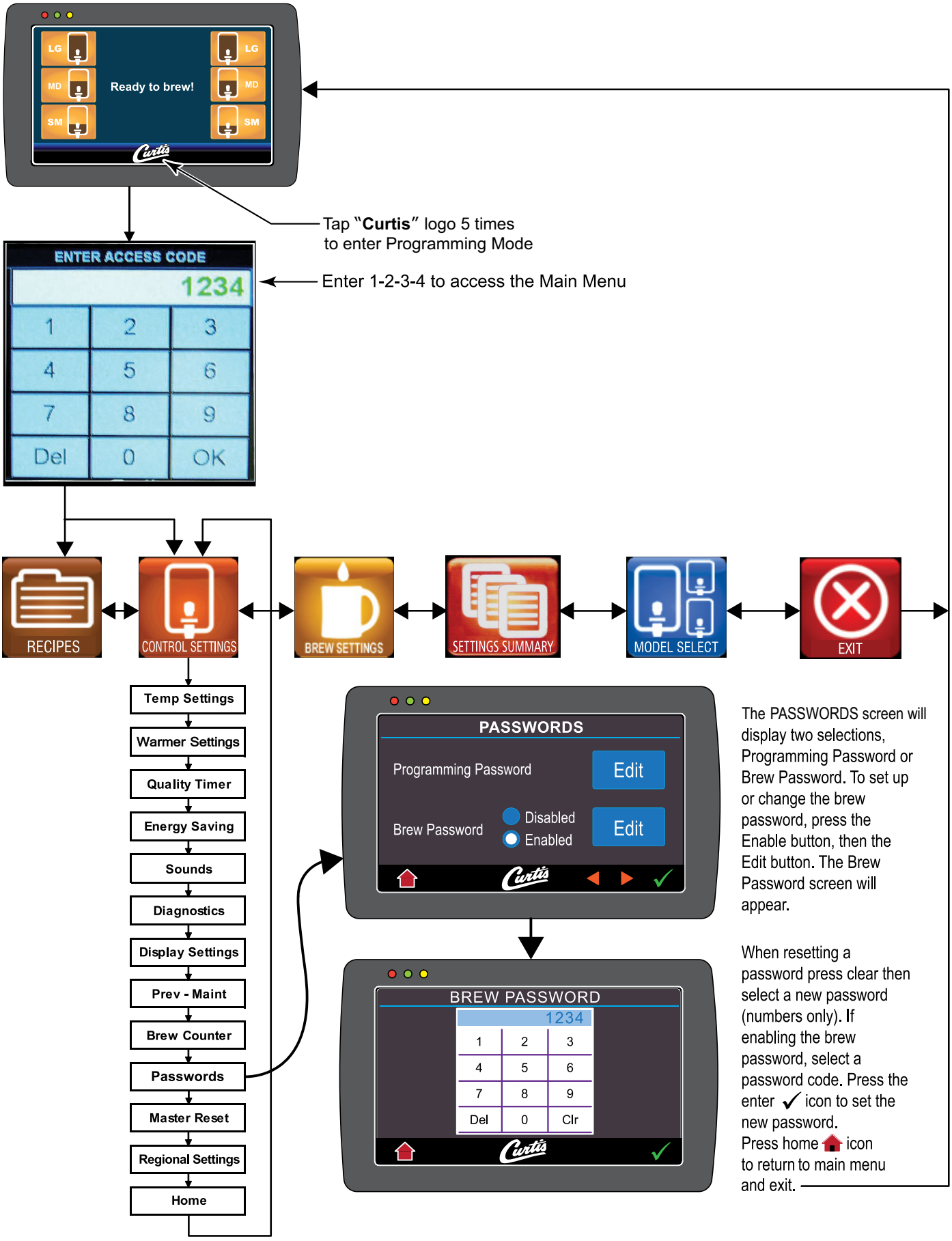
MESSAGE DISPLAY	WARNING DESCRIPTION	CAUSE
Maintenance Required	Maintenance required	Brew count "Gallons Since Reset" exceeds programmed Preventative Maintenance period.
Low Water Flow Warning	Low water flow	If the inlet valve remains on longer than XX seconds (during the brew cycle only) and repeats TWICE during that brew cycle. It shall clear upon the next brew and if the same low flow exists again, it will re-appear. XX = Alpha 20 Sec.; Gem/TP Twin 40 Sec.; Gem/TP Single 30 Sec.

ERROR MESSAGES - STOPS BREWING

MESSAGE DISPLAY	ERROR DESCRIPTION	CAUSE
Water Level Error	Fill run error/overflow	The fill solenoid has either run for more than 10 minutes on the intial tank fill or 120 seconds on large brewers and 30 seconds on CGC brewer in normal operation.
Sensor Error	Open sensor	Break in the temperature thermistor circuit or short circuit.
Over Temp. Error*	Excess temperature	The sensor is reading that temperature in the heating tank has risen above 210°F, or sensor has shorted to ground.
Internal Error 1	UPM-UCM communication	Break in the UPM-UCM communications circuit.

* This error is disabled in the CGC & Seraphim models.

Brew Access Code



The PASSWORDS screen will display two selections, Programming Password or Brew Password. To set up or change the brew password, press the Enable button, then the Edit button. The Brew Password screen will appear.

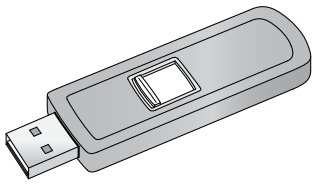
When resetting a password press clear then select a new password (numbers only). If enabling the brew password, select a password code. Press the enter ✓ icon to set the new password. Press home icon to return to main menu and exit.

USB – Easy Programming

There are two methods that can be used to change the default settings on G4 brewers. They can be programmed at the brewer by the touch screen universal control module (UCM) or the settings can be changed using the USB (universal serial bus) data port on the side of the brewer. Using the USB connection and a flash memory data storage device will easily reprogram the settings simply by copying data.

The flash drive can upload or download the entire setting from one G4 brewer, into another G4 brewer. This eliminates the need to walk through the usual steps in reprogramming that would be required when you use the touch screen to make a change. This is an advantage for a service technician when standardizing the program settings on multiple G4 brewers.

Use a USB drive with USB 2.0 support and a type-A USB connection. Storage capacity should be 2 GB minimum.



IMPORTANT: The flash drive must be completely blank. Before starting, please erase any files that may be in the USB drive.

SOFTWARE INFORMATION TRANSFER

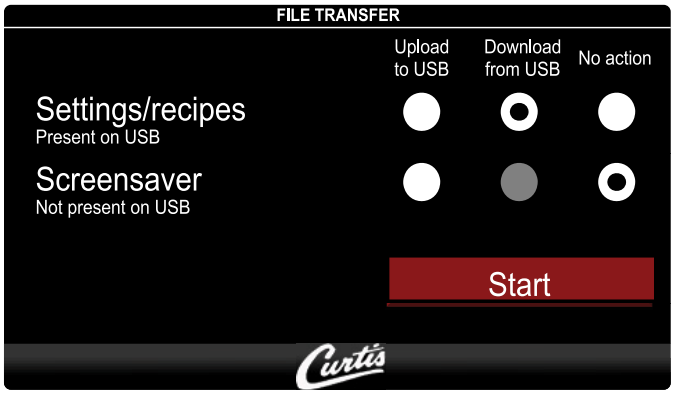
UPLOAD TO USB

1. Make sure the brewer is on. Determine that the G4 brewer you wish to copy is properly programmed for your desired settings.
2. Connect an empty flash drive into the USB port on the brewer. The UCM on the brewer will upload all of the particular setup data onto the flash drive. The yellow LED on top of the touch screen will light indicating that data is transferring. This will only take a second to complete.

DOWNLOAD TO BREWER

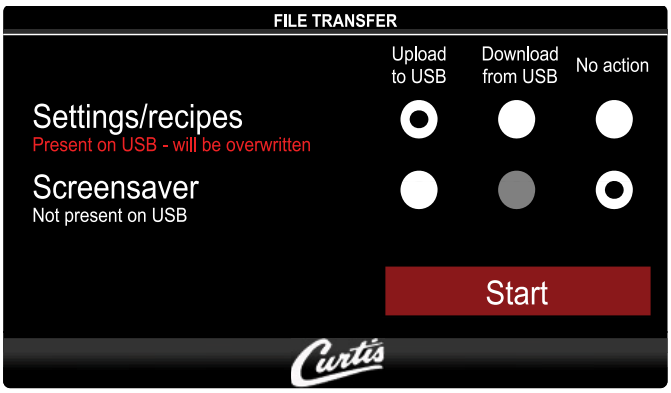
1. Select the brewer you wish to make the program changes on. The brewer should be on.
2. Plug the loaded flash drive into the USB port on the brewer. The data copied from the first G4 brewer will automatically download, overwriting all the settings that were on the second brewer.
3. The red LED on the UCM will indicate that the download is in process. This will only take a second.
4. Once the download is complete, the UCM will reboot in order for the changes to take effect.
5. Remove the flash drive. The download is complete. The data on the flash drive can be downloaded into as many G4 brewers as needed.

This screen will be presented whenever the USB flash is inserted. The UCM will always create a backup on the USB flash drive before downloading settings/recipes or screensaver.



Case 1

Settings/recipes file present, screensaver not present. User has selected ‘Download from USB’ for settings/recipes file.

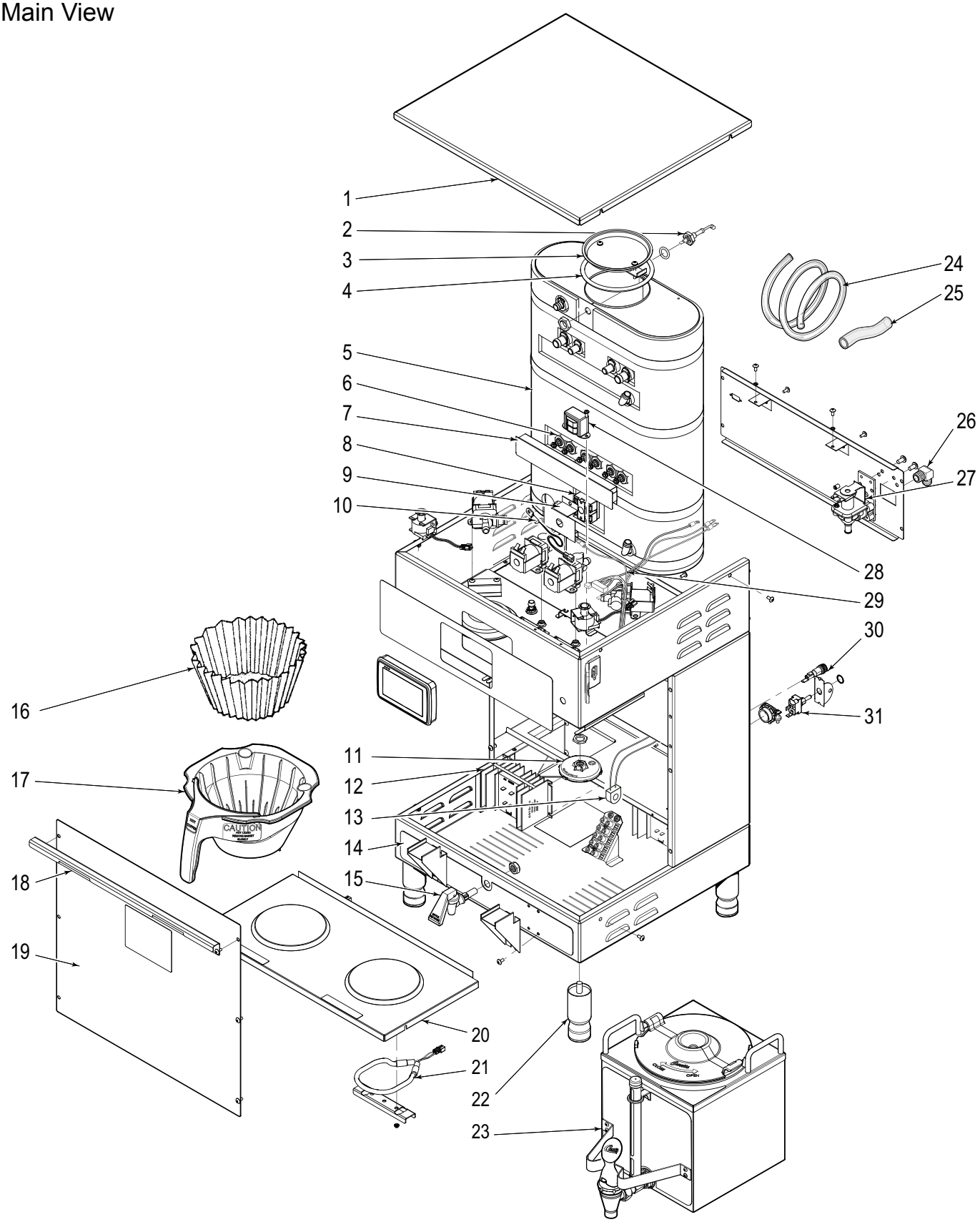


Case 2

As above, but user has selected ‘Upload to USB’ for settings/recipes file. With this action, the overwrite warning appears.

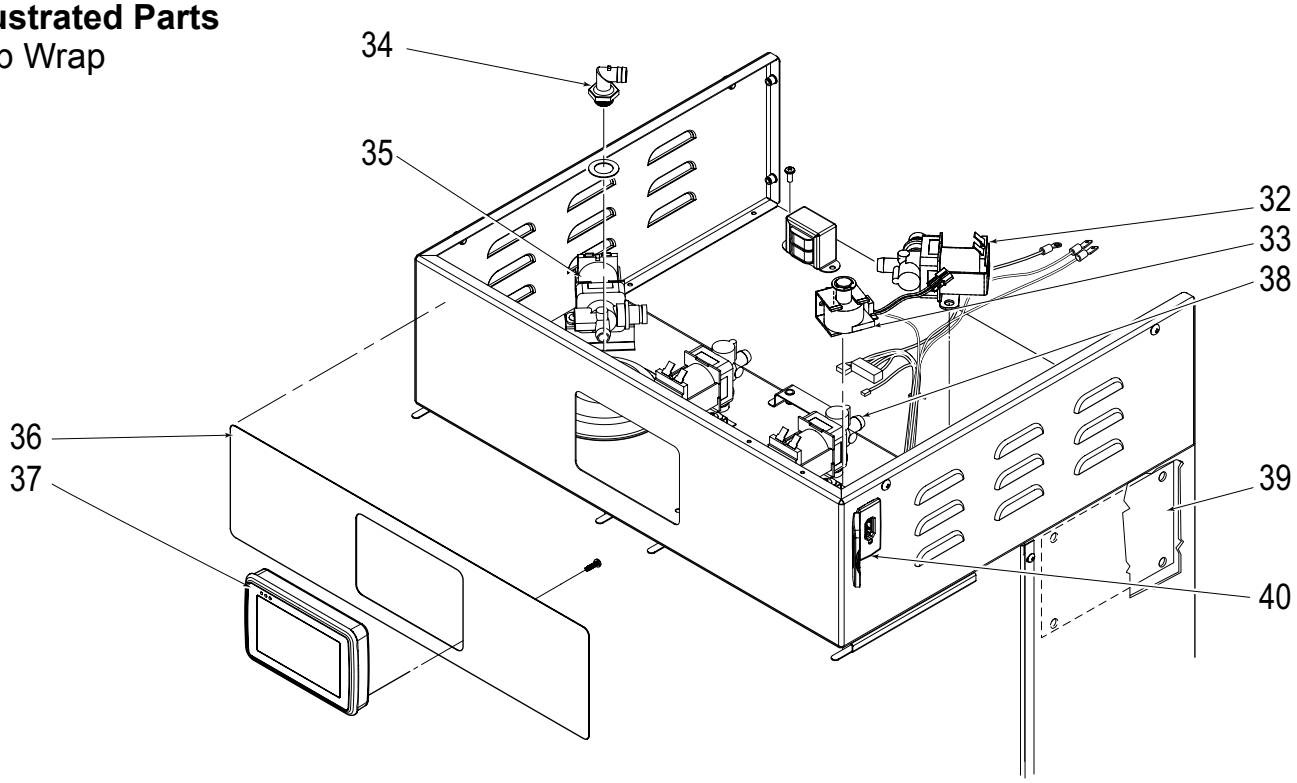
Illustrated Parts

Main View



Illustrated Parts

Top Wrap



ITEM NO.	PART NO.	DESCRIPTION
1	WC-5421	COVER, TOP STAINLESS GEMTIF
2	WC-5527K*	KIT, PROBE WATER LEVEL O-RING & NUT
3	WC-37008	KIT, TANK LID ROUND
4	WC-43067*	O-RING, 4-1/2 I.D. x Ø.285 C.S. SILICONE
5	WC-62033	TANK COMPLETE, GEMTS WITH ULTEM FITTINGS
6	WC-934-04*	KIT, HEATING ELEMENT 2.5KW 220V W/JAM NUT & SILICONE WASHERS
7	WC-4382*	GUARD, SHOCK - DOUBLE HEATING ELEMENTS
8	WC-522*	THERMOSTAT, HI LIMIT HEATER DPST 277V-40A
9	WC-43055	GUARD, SHOCK RESET THERMOSTAT
10	WC-1438-101*	SENSOR, TEMPERATURE TANK
11	WC-29050*	SPRAYHEAD ASSY, AFS-AMBER
12	WC-8559*	RELAY, SOLID STATE 40A w/INTEGRATED HEATSINK
13	WC-14045-101	CURRENT SENSOR ASSY G4
14	WC-39462	LABEL, BOTTOM PANEL GEMTS
15	WC-1809	FAUCET, PS/HSP SERIES HOT WATER 1/2-20 UNF
16	GEM-6*	FILTER, 500PK GEM-12/230A
17	WC-3417	BREW CONE,ASSY W/SPLASH POCKET BRWN STYLIZED GEMIN HOT COFFEE
18	WC-37310	KIT, BREWCONE ALIGNMENT BRACKET STAINLESS
19	WC-61393	COVER, FRONT W/A GEMTS
20	WC-5423	DECK, WARMER W/ASSY GEM12/312IL/612IL/12ILD/612ILD
21	WC-37102*	KIT, WARMER ELEMENT
21A	WC-37163	KIT, WARMER ELEMENT 100W 220V GEN USE
22	WC-3528	LEG, 4" ADJUSTABLE 3/8-16 THRD STYLIZED
23	GEM-3	SATELLITE SERVER, 1-1/2 GAL.
24	WC-5310*	TUBE, 5/16 ID x 1/8W SILICONE
25	WC-5350*	TUBE, SILICONE Ø1/2" ID x Ø3/4" OD x 1/8" WALL
26	WC-2402P	ELBOW, 3/8 NPT x 3/8 FLARE PLATED
27	WC-847*	VALVE, INLET 2 GPM 120V-10W

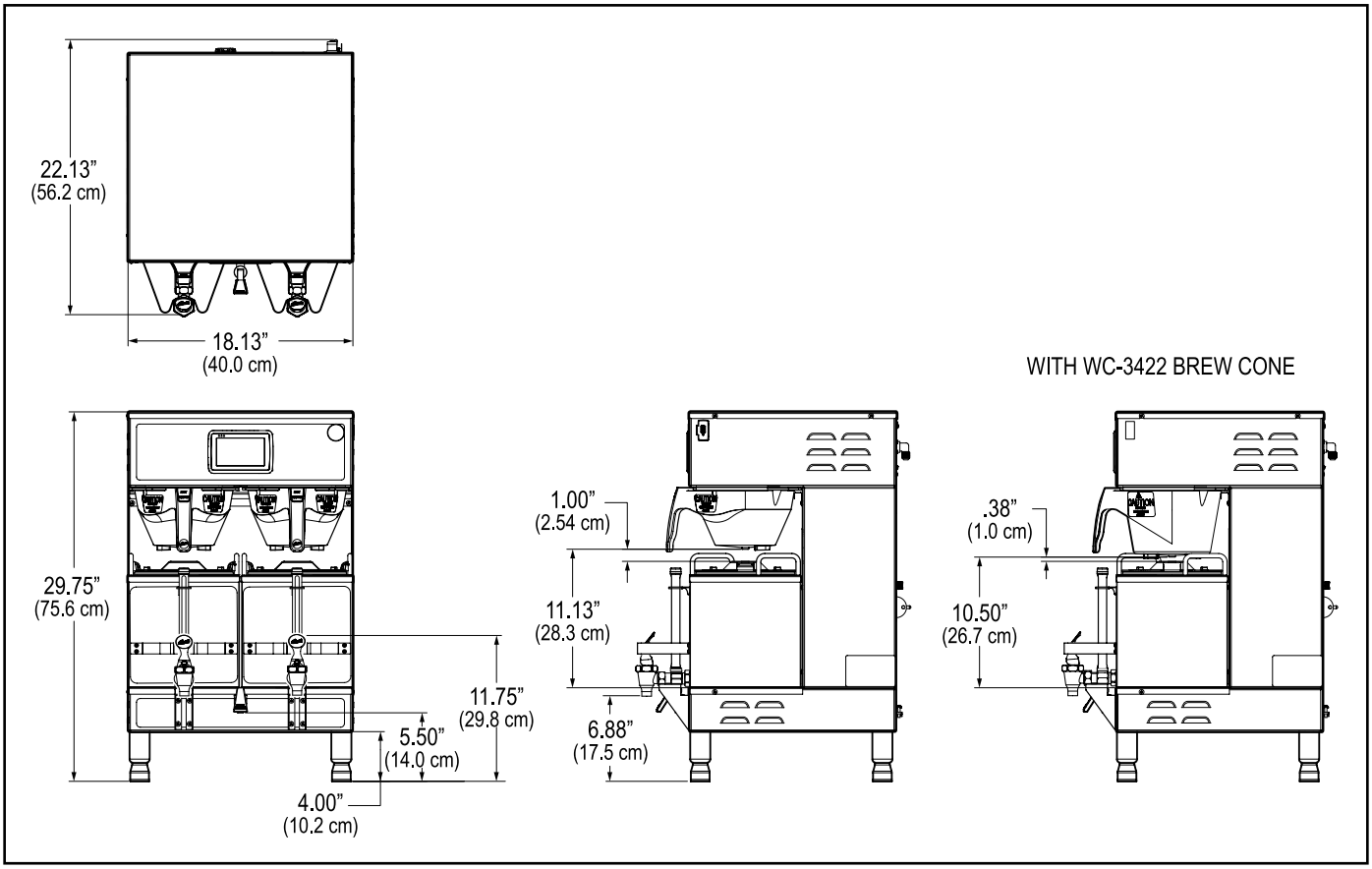
* RECOMMENDED PARTS TO STOCK

Parts List

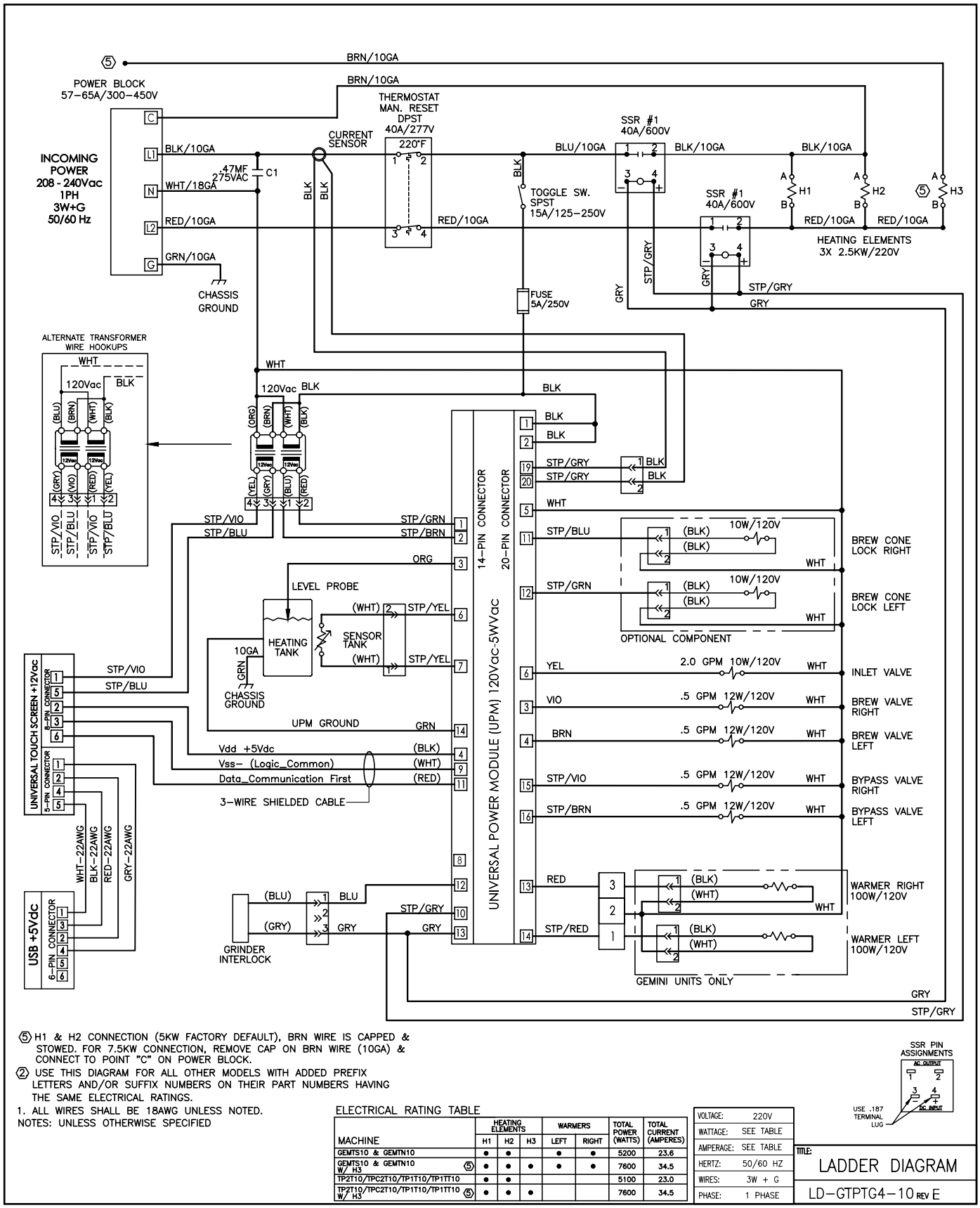
ITEM NO.	PART NO.	DESCRIPTION
27A	WC-883	VALVE, INLET 2 GPM 240V 10W
28	WC-589-101	TRANSFORMER, 120/230VAC - 24VAC 4.8VA w/LEADS & TERMINALS
28A	WC-589-102	TRANSFORMER,240VAC- 24V 4.8VA W/LEADS & MOLEX CONNECTOR
29	WC-13450	HARNESS ASSY, COMPLETE TP2T10G4/GEMTS10G4/GEMTIF10G4
29A	WC-13450-101	HARNESS ASSY COMPLETE G4TP2T G4TPC2T/G4GEMT/G4TP1T-30'S
30	WC-1501	FUSE, HOLDER ASSY w/5A FUSE
31	WC-102 *	SWITCH, TOGGLE SPST 15A 125Vac RESISTIVE
31A	WC-103	SWITCH, TOGGLE NON-LIT DPST 25A 125/250VAC RESISTIVE
32	WC-37121	KIT, DUMP VALVE LEFT
32A	WC-853	VALVE, BREW DUMP LEFT 240V 12W GEM12D/TP/TPC
33	WC-442 *	SOLENOID, LOCK BREW CONE RIGHT 120VAC
33A	WC-446	SOLENOID, LOCK BREW CONE RIGHT 220V THERMOPRO/GEMTS
34	WC-2977-101K	KIT, SPRAYHEAD FITTING, GASKET & JAM NUT
35	WC-37122*	KIT, DUMP VALVE RIGHT
35A	WC-854	VALVE, BREW DUMP RIGHT 240V 12W GEM12D/TP/TPC
36	WC-39812	LABEL, OUTER TOUCHSCREEN GEMTSG4 CURTIS LOGO
37	WC-10000*	CONTROL MODULE, TOUCH SCREEN G4
38	WC-844-101*	VALVE, BYPASS 120V-14W NON ADJUSTABLE WITH RESTRICTOR (WC-2945)
38A	WC-844-102	VALVE, BY-PASS, 220V NON-ADJUS TABLE W/ RESTRICTOR (WC-2945)
39	WC-10001*	UNIVERSAL POWER MODULE - G4
40	WC-10008	UNIVERSAL HOST ADAPTER (USB)

* RECOMMENDED PARTS TO STOCK

Rough-In Drawing



Electrical Schematic



⑤ H1 & H2 CONNECTION (5KW FACTORY DEFAULT), BRN WIRE IS CAPPED & STOWED. FOR 7.5KW CONNECTION, REMOVE CAP ON BRN WIRE (10GA) & CONNECT TO POINT "C" ON POWER BLOCK.

② USE THIS DIAGRAM FOR ALL OTHER MODELS WITH ADDED PREFIX LETTERS AND/OR SUFFIX NUMBERS ON THEIR PART NUMBERS HAVING THE SAME ELECTRICAL RATINGS.

1. ALL WIRES SHALL BE 18AWG UNLESS NOTED.

NOTES: UNLESS OTHERWISE SPECIFIED

ELECTRICAL RATING TABLE

MACHINE	HEATING ELEMENTS H1	H2	H3	WARMERS LEFT	RIGHT	TOTAL POWER (WATTS)	TOTAL CURRENT (AMPERES)
GEMTS10 & GEMTN10	●	●		●	●	5200	23.6
GEMTS10 & GEMTN10 W/ H3 ⑤	●	●	●	●	●	7600	34.5
TP2T10/TPC2T10/TP1T10/TP1TT10	●	●				5100	23.0
TP2T10/TPC2T10/TP1T10/TP1TT10 W/ H3 ⑤	●	●	●			7600	34.5

VOLTAGE:	220V
WATTAGE:	SEE TABLE
AMPERAGE:	SEE TABLE
HERTZ:	50/60 HZ
WIRES:	3W + G
PHASE:	1 PHASE

SSR PIN ASSIGNMENTS
AC OUTPUT
DC INPUT
USE .187 TERMINAL LUG

TITLE: LADDER DIAGRAM

LD-GTPTG4-10 REV E

Cleaning the Gemini

Regular cleaning and preventive maintenance is essential in keeping your coffee brewer looking and working like new. To clean the coffee brewer and components, prepare a mild solution of dish washing detergent and warm water.

CAUTION – Do not use cleaning liquids, compounds or powders containing chlorine (bleach) or corrosives. These products promote corrosion and will pit the stainless steel. USE OF THESE PRODUCTS WILL VOID THE WARRANTY.

DAILY CLEANING

1. Wipe exterior surfaces with a damp cloth, removing spills and debris.
2. Slide the brew basket out and clean it. Wipe the spray head area with a cloth soaked in a mild detergent solution.
3. Rinse with a cloth soaked with clean water. Dry the brew basket and spray head area.
4. Drain drip trays of coffee. Water rinse.
5. Dry the tray.

WEEKLY CLEANING

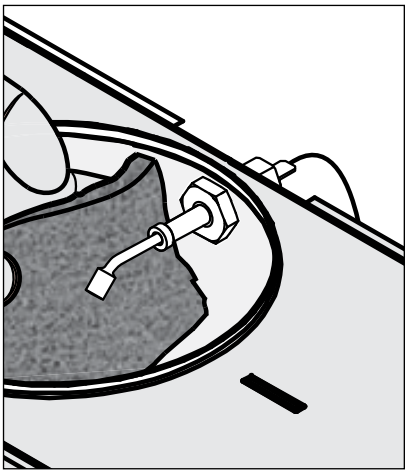
1. Reach behind the brewer and turn off the power at the toggle switch. Allow the brewer to cool.
2. Clean the spray head and dome plate area.
    a. Remove the spray head, unscrewing counterclockwise from the dome plate.
    b. Thoroughly clean and rinse the dome plate area.
    c. Clean the brew basket rails with a brush soaked with a mild detergent solution. Rinse the area with a cloth soaked with clean water, removing any residual detergent.
    d. Dry the area.
    c. Attach the spray head.

Liquid Level Probe

Cleaning intervals for the probe are to be determined by the user or the service tech, based on water conditions. The use of water filters, or the type of water filter that is being used can impact the service interval. Intervals can be from one month to several years, however, replacing rather than cleaning the probe is preferable.

WARNING: Disconnect electrical power before removing access panels!

CAUTION: This procedure involves working with hot water and hot surfaces!



1. Unplug the power cord and shut off the water line.
2. Remove the top cover of the coffee brewer. Locate the heating tank and remove the top cover.
3. Open the hot water faucet and drain the tank to a level about 3” below the tip of the probe.
4. Allow some time for the heating tank and liquid level probe to cool down before proceeding.
5. Clean the tip of the probe using a Scotch-Brite™ scuff pad.
6. If a white residue is still visible on the probe, remove the probe and soak it in vinegar or a scale removing chemical. Repeat this step until the probe is clean.

Cleaning the Satellite Server

To clean the satellite components, prepare a mild solution of detergent and warm water..

1. Remove lid from satellite. Clean the lid at the funnel area with a spiral brush and detergent solution.
2. Rinse the lid, removing all traces of cleaning solution.
3. Unscrew the handle/bonnet assembly and remove it from the dispensing faucet.
4. Pull the silicone seat cup from faucet stem and inspect it for wear, cracks, or hardening. Replace the seat cup if necessary.

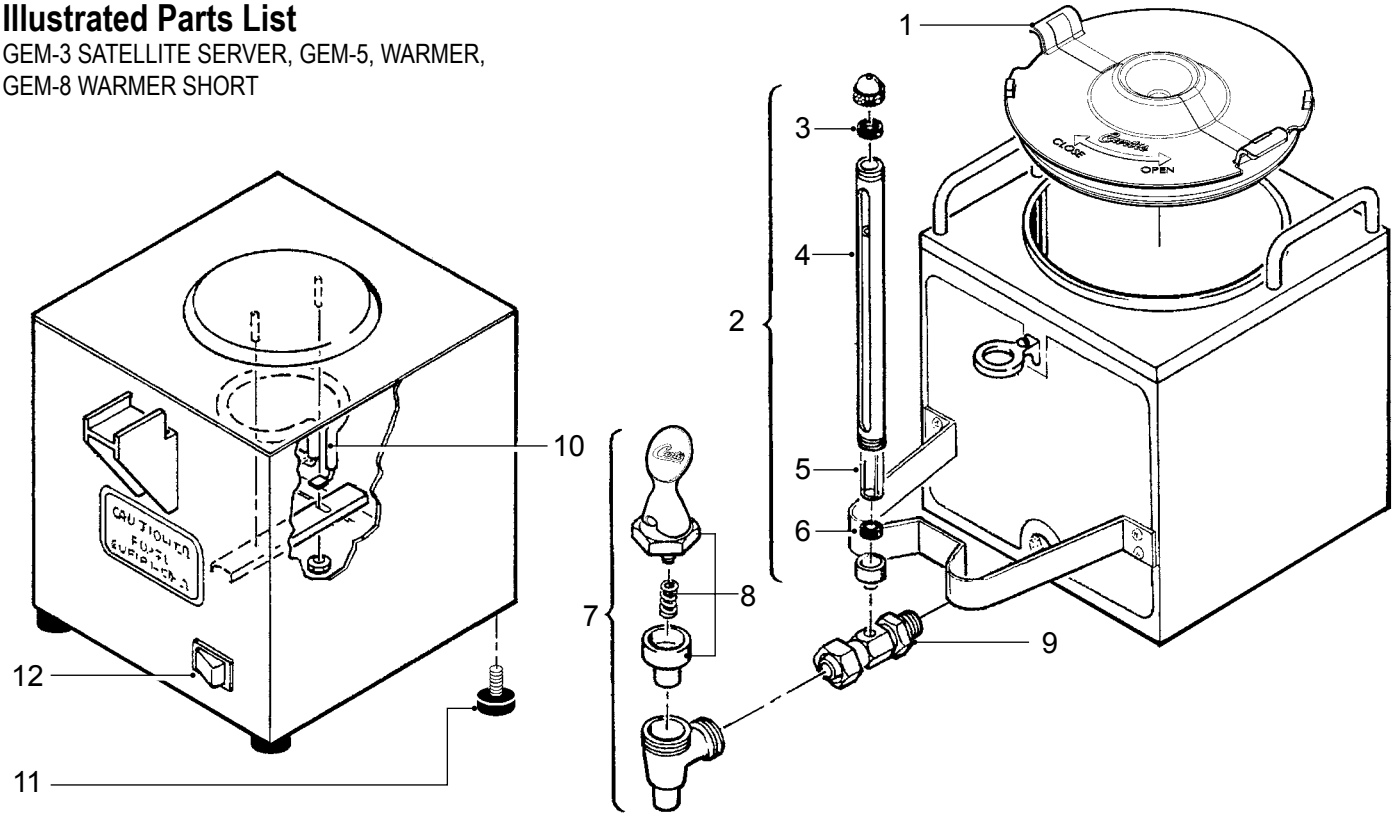
5. Clean all parts. Thoroughly rinse with clear warm water.
6. Dry and assemble the handle/bonnet parts. Hand-tighten the assembly onto the faucet.
7. Remove the gauge glass tube by unscrewing the gauge glass cap.
8. Clean the gauge glass tube and the two washers with a gauge brush and detergent solution. Rinse with clear water. Dry the parts and assemble them onto the satellite.

DO NOT immerse the satellite in water or any other liquid.

9. Clean inside of the satellite. Remove coffee residue with the detergent solution.
10. Thoroughly rinse out the satellite with clear warm water.

Illustrated Parts List

GEM-3 SATELLITE SERVER, GEM-5, WARMER,
GEM-8 WARMER SHORT



ITEM №	PART №	DESCRIPTION
1	WC-5622	LID, SATELLITE PLASTIC GEM3
1A	WC-3307	LID, SATELLITE STAINLESS (OLDER UNITS)
2	WC-2102	GAUGE GLASS ASSEMBLY 8”
3	WC-2005*	WASHER, SHIELD CAP 1/8”
4	WC-2010C	SHIELD, 8 INCH GAUGE GLASS
5	WC-2025*	GAUGE GLASS, 8 INCH
6	WC-2006*	WASHER, SHIELD BASE 3/16”
7	WC-1800	FAUCET, S’ NON-LOCKING
7A	WC-1841	FAUCET, ESP BLACK NON-LOCKING PLASTIC
8	WC-3705*	KIT, FAUCET S’ SERIES
9	WC-1901A-103K	KIT, SHANK ASSY, FAUCET W/SHIELD BASE O-RING
9A	WC-1901A	SHANK, FAU. W/SHLD. BASE (UNITS BUILT AFTER 2/15)
10	WC-37102*	KIT, WARMER ELEMENT 100W 120V **(GEM-5 & -8)**
11	WC-3503*	LEG, SCREW BUMPER 3/8”– 16 STD **(GEM-5 & -8)**
12	WC-114R*	SWITCH, ROCKER (RED) 120V SPST **(GEM-5 & -8)**

* Recommended parts to stock.

Product Warranty Information

Wilbur Curtis Co., Inc. certifies that its products are free from defects in material and workmanship under normal use. The following limited warranties and conditions apply:

3 years, parts and labor, from original date of purchase on digital control boards**.**
2 years, parts, from original date of purchase on all other electrical components, fittings and tubing.
1 year, labor, from original date of purchase on all electrical components, fittings and tubing.

Additionally, Wilbur Curtis Co., Inc. warrants its grinding burrs for forty (40) months from date of purchase or 40,000 pounds of coffee, whichever comes first. Stainless steel components are warranted for two (2) years from date of purchase against leaking or pitting and replacement parts are warranted for ninety (90) days from date of purchase or for the remainder of the limited warranty period of the equipment in which the component is installed.
All in-warranty service calls must have prior authorization. For authorization, call the Technical Support Department at 1-800-995-0417. Effective date of this policy is April 1, 2003.
Additional conditions may apply. Go to www.wilburcurtis.com to view the full product warranty information.

CONDITIONS & EXCEPTIONS

The warranty covers original equipment at time of purchase only. Wilbur Curtis Co., Inc., assumes no responsibility for substitute replacement parts installed on Curtis equipment that have not been purchased from Wilbur Curtis Co., Inc. Wilbur Curtis Co., Inc. will not accept any responsibility if the following conditions are not met. The warranty does not cover and is void under the following circumstances:

1) **Improper operation of equipment:** *The equipment must be used for its designed and intended purpose and function.*
2) **Improper installation of equipment:** *This equipment must be installed by a professional technician and must comply with all local electrical, mechanical and plumbing codes.*
3) **Improper voltage:** *Equipment must be installed at the voltage stated on the serial plate supplied with this equipment.*
4) **Improper water supply:** *This includes, but is not limited to, excessive or low water pressure and inadequate or fluctuating water flow rate.*
5) **Adjustments and cleaning:** *The resetting of safety thermostats and circuit breakers, programming and temperature adjustments are the responsibility of the equipment owner. The owner is responsible for proper cleaning and regular maintenance of this equipment.*
6) **Damaged in transit:** *Equipment damaged in transit is the responsibility of the freight company and a claim should be made with the carrier.*
7) **Abuse or neglect (including failure to periodically clean or remove lime accumulations):** *Manufacturer is not responsible for variation in equipment operation due to excessive lime or local water conditions. The equipment must be maintained according to the manufacturer's recommendations.*
8) **Replacement of items subject to normal use and wear:** *This shall include, but is not limited to, light bulbs, shear disks, "0" rings, gaskets, silicone tube, canister assemblies, whipper chambers and plates, mixing bowls, agitation assemblies and whipper propellers.*
9) **Repairs and/or Replacements** *are subject to our decision that the workmanship or parts were faulty and the defects showed up under normal use. All labor shall be performed during regular working hours. Overtime charges are the responsibility of the owner. Charges incurred by delays, waiting time, or operating restrictions that hinder the service technician's ability to perform service is the responsibility of the owner of the equipment. This includes institutional and correctional facilities. Wilbur Curtis Co., Inc. will allow up to 100 miles, round trip, per in-warranty service call.*

RETURN MERCHANDISE AUTHORIZATION: *All claims under this warranty must be submitted to the Wilbur Curtis Technical Support Department prior to performing any repair work or return of this equipment to the factory. All returned equipment must be repackaged properly in the original carton. No units will be accepted if they are damaged in transit due to improper packaging.* **NO UNITS OR PARTS WILL BE ACCEPTED WITHOUT A RETURN MERCHANDISE AUTHORIZATION (RMA). RMA NUMBER MUST BE MARKED ON THE CARTON OR SHIPPING LABEL.** All in-warranty service calls must be performed by an authorized service agent. Call the Wilbur Curtis Technical Support Department to find an agent near you.

ECN 16604 11/02/15 @ 10.0 rev F

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6913 Acco St., Montebello, CA 90640-5403 USA | Phone: 800-421-6150 | Fax: 323-837-2410
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Email: techsupport@wilburcurtis.com | Web: www.wilburcurtis.com

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