

Models Included:

TCTS/T

PTT3

CAUTION: Equipment must be installed to comply with applicable

federal, state, and local plumbing/ electrical codes having jurisdiction.



CAUTION: Follow this setup procedure before attempting to use this unit. Failure to follow these instruc-

tions can result in injury and/or void of warranty.



CAUTION: DO NOT connect the unit to hot water. The inlet valve is

not rated for hot water.



After setup, run a FULL brewcycle. Place a tea container to catch both hot water

from the brewcone and dilution water from spout on the front cover.



WARNING HOT LIQUID, Scalding may occur. Avoid splashing.

ISO 9001:2008 REGISTERED

WILBUR CURTIS CO. Montebello, CA 90640 For the latest information go to www.wilburcurtis.com Tel: 800/421-6150

Service Manual – TCT & PTT

Important Safeguards/Symbols

This appliance is designed for commercial use. Any servicing other than cleaning and preventive maintenance should be performed by an authorized Wilbur Curtis 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. No user serviceable parts inside.
- · Keep hands and other items away from hot surfaces of unit during operation.
- · Never clean with scouring powders, bleach or harsh chemicals.

Symbols

- WARNINGS To help avoid personal injury
- Important Notes/Cautions from the factory
- Sanitation Requirements NSE

The Curtis G3 Brewer is Factory Pre-Set and Ready to Go... Right from the Box.

Following are the Factory Settings for the G3 Iced Tea Brewer.

Brew Temperature = 204°F

· Brew Volume = Set to dispensing vessel requirements

Generally there will never be a reason to change the G3/Gold Cup Series default settings. However, should you need to make slight adjustments to meet your brewing needs, programming instructions are provided later in this manual.

- System Requirements:
- Water Source 20 90 PSI. Minimum flow rate of ½ gpm (1 gpm preferred flow rate).
- · Electrical: See electrical schematic on page 6.

SETUP STEPS

NSF

The unit should be level (left to right and front to back), and located on a secure counter top. Connect a water line from the water filter to the brewer

NOTE: A water filtration device must be used to maintain a trouble-free operation. (In areas with extremely hard water, we suggest that a sedimentary and taste & odor filter be installed.) This will prolong the life of your brewing system and enhance coffee quality.

- NSF International requires the following water connection:
 - A quick disconnect or additional coiled tubing (at least 2x the depth of the unit) so that the machine can be moved for cleaning underneath.
 - In some areas an approved backflow prevention device may be required between the brewer and the water supply. 2 3. Water pipe connections and fixtures directly connected to a potable water supply shall be sized,
 - installed and maintained in accordance with federal, state, and local codes.

1. A 1/4" Flare has been supplied for water line connection. Use tubing sized sufficiently to provide ½ GPM (preferred flow rate is 1gpm).

- 2. Connect the unit to an appropriate electrical power circuit.
- 3 Turn on the toggle (STANDBY/ON) switch behind the unit. The heating tank will start to fill. When the water level in the tank rises to the correct volume, the heating element will energize automatically. With G3 tea brewers there is no danger of element burnout caused by an empty tank.

4. The heating tank will require 20 to 30 minutes to reach operating temperature (204°F) as indicated by the READY-TO-BREW LCD readout.

5. Important: Run one full brewcycle, to purge the water lines and valves of air. Five seconds of dilution water at the beginning of each brewcycle is normal pre-programmed operating behavior.

BREWING INSTRUCTIONS

- 1. Brewer should be ON (Confirm at rear toggle switch, then press ON/OFF button) and Ready-to-Brew displayed.
 - 2. Place filter in brew basket. Pour leaf tea into basket.
- 3. Slide brew cone into brew rails. Place tea container under brew cone.
- 4. Press the BREW button to brew tea



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FOR THE LATEST SPECIFICATIONS AND INFORMATION GO TO WWW.WILBURCURTIS.COM



| Programming | | | | | | | |
|---|--|--|--|--|--|--|--|
| Quick Sta | nt TGT & PTT | | | | | | |
| Your Curtis Generation 3 Brewer is Factory Pre-Set for Optimum Performance. After connection to water and power; the rear toggle switch must be on. You will hear a beep sound, indicating power is available to the controller. | | | | | | | |
| The control displays | The control displays CURTIS. Press ON/OFF button and the screen will display After three seconds, FILLING is displayed. | | | | | | |
| | proximately 2-3 minutes depending on water flow rate). When the proper level is reached ately 20 minutes to reach set point temperature of 204°F. | | | | | | |
| Control will display | when temperature reaches the set point (204°F). Unit is now ready to brew. | | | | | | |
| To Go Into Programm Turn off (dark display) by pre- | ssing ON/OFF button (yellow). Press and <u>hold</u> BREW button (4) (green) and then press and release ON/OFF button (yellow). | | | | | | |
| Continue holding BREW butto spond to the buttons (see illu The default code set at the fa | stration below). | | | | | | |
| Curtis | All programming selections are performed with the three center buttons. The symbols below the buttons are: | | | | | | |
| WILBUR CURTIS | Scroll LEFT | | | | | | |
| 0 2 | 3 4 • SELECTION or ENTER to save new parameter GRAY | | | | | | |
| | Scroll RIGHT | | | | | | |
| | ever netice AFS. The older version is the gray sprayhead. See the illustration at right. | | | | | | |
| Program Menus | Program Menus screen. Press > button, to show the next menu item. | | | | | | |
| Recipes | Recipes (Factory set to Standard Tea Purple) Press ⊙ to Select. Press < or > to scroll through recipes: Standard Gray, Standard Purple, Tropical Gray, Tropical Purple, 76/308 Gray or 76/308 Purple. Press ⊙ to set. | | | | | | |
| ▼ Tea By Volume * | Tea by Volume: Press \odot to select, Display will now show Push START To Begin Press the BREW button then hot water starts running, when desired volume is reached press BREW button again to stop the flow. Now the volume has been set. Pressing > button will display the subsequent menu features. | | | | | | |
| Tea By Time * | Tea by Time (Factory set to 5:52) Press \odot to select. By pressing < or > buttons, you can increase and decrease time. Press \odot to set minutes and seconds. Units with the half batch option, the Half Batch brew button is factory set at for half the brew time (2:56). | | | | | | |
| ▼ Tea Dilut Delay | Tea Dilution Delay (Factory set to 0:30) Press \odot to Select. Press < or > buttons, to add or decrease time. Press \odot to set. | | | | | | |
| Tea Dilut Volume | Tea Dilution Volume: Press \odot to Select, Display will now show Push START To Begin Press the BREW button and water will flow, when desired volume is reached press BREW button again to stop the flow. Now the volume has been set. Press > to display subsequent menu features. | | | | | | |
| Tea Dilut Time | Dilution Time (Factory set to 4:05) Press \odot to Select. By pressing < or > buttons, you can increase and decrease time. Press \odot to set minutes and seconds. | | | | | | |
| | * On units with the half batch option , the half batch brew button may be independently set. | | | | | | |

Programming



Programming

| Banner Name | Banner Name (Factory set to CURTIS) Press ⊙ to display letters and change letters or < to move place and EX to exit when complete This feature allows up to 14 letters to be programmed for company name or regional name. Programming all blanks disables Banner Name. If programmed, Banner Name is displayed every 5 sec. on and off. |
|-----------------------|--|
| P-Maintenance | P-Maintenance (Factory set to OFF) Press ⊙ to Select, Set gallons brewed to indicate P-Maintenance. Press < or > to adjust from Off to 3000 gallons. Press ⊙ to exit. |
| Beeper On/Off | Beeper On/Off (Factory set to ON) Press \odot to display ON or OFF. Pressing either < or > toggles between on and off. \odot to set. When ON, this feature allows you to hear a short beep each time a button is pressed. |
| Quality Timer | Quality Timer (Factory set to OFF) Press \odot to Select. By pressing < or > buttons, you can increase and decrease time. Setting range is from 0 to 10 hours in 1 hour increments. Press \odot to set. Expired time indicated by audio alarm and flashing "Quality Timer". |
| Display Brew Time | Display Brew Time (Factory set to ON) Press \odot to Select. Pressing < or > toggles between ON and OFF. |
| ♥ Display Messages | Display Messages (Factory set to ON) Press ⊙ to display ON or OFF. Pressing either < or > toggles between on and off. This feature allows the operator to select the message "Rinse Server Before Brewing". This will be displayed any time the unit is not brewing. |
| Model Select | <i>Model Select</i> (Factory set to 1/Half Batch) Press \odot to Select. Pressing < or > toggles between 1/Half Batch and 3-Batch. |
| Exit | Exit Press \odot to select, exits program mode and returns unit to operation. Pressing > returns you to Tea Recipes. |

Tank Temperature Check

Turn on brewer at the control panel ON/OFF button. Press and hold ③ button (see illustration, page 2) for 5 seconds. Water Temperature will be displayed (temperature in heating tank).

Error Message

With G3/Gold Cup Series brewers, there are three error messages that can appear on the screen to advise the user of a malfunction. If one of these error messages appear, the brewer will lock up and stop functioning until the error is corrected.

An error message will occur under the following conditions:

| (800) 000-000 |
|-----------------|
| Water Level Err |

 Water level fill error or overflow. This error message occurs when the inlet valve solenoid has been on for more than 10 minutes. This error message also occurs when the valve is refilling the tank during a brew cycle for more than 1¹/₂ minutes.

(800) 000-000 Sensor Err

2. Water temperature control system error. An open probe or a break in the temperature control circuit is detected.

The screen may display a phone number to call for service. After the malfunction is corrected, the error message must be cleared. To reset the control panel and return to normal operation, press \odot for 5 seconds.

Illustrated Parts TCT



PARTS LIST

| ITEM | PART N° | DESCRIPTION |
|-----------|-------------------------|---|
| 1 | WC-3301 | BASKET, WIRE 7.00 DIA. USE WITH WC-3311 (OPTNL) |
| 2 | WC-3647 | STRAINER BT-10 BREWCONE (EXCEPT PARADISE) |
| 2A | WC-8532 | STRAINER, TROPICAL BREWCONE |
| 3 | WC-3320 | BREW CONE W/HANDLE 8.8" D W/STRNR (OPTIONAL) |
| 4 | WC-3201 | HANDLE, BREW CONE BLACK FOR WC-3320 |
| 5 | WC-3398 | BREW CONE, ASSY STD TEA NON-METAL W/BLU GUARD |
| 5A | WC-3358 | BREWCONE W/WC-3320, WC-3301 & WC-3647 (OPTNL) |
| 5B | WC-3399 | BREW CONE, ASSY TROPICAL TEA NON-MTL W/YEL GUARD |
| 6 | WC-58117 | COVER, TOP BREWER |
| 7 | | KIT,SPRAYHEAD FITTING PLASTIC |
| 8 | WC-37189* | UCM KIT, LABEL & OVERLAY 120V TCTS/T |
| 8A | WC-37338 | KIT, UCM & OVERLAY W/HALF BATCH BREW TCTS |
| 9 | WC-39398* | LABEL, UCM PANEL TCT/PTT GT3 W/O FAUCET CURTIS |
| 9A | WC-39628 | LABEL, UCM PANEL W/HALF BATCH W/O FAUCET |
| 10 | WC-29025* | SPRAYHEAD, PURPLE ADVANCE FLOW |
| 10 10A | WC-29025 WC-2942 | SPRAYHEAD, GRAY (OLDER UNITS) |
| 10A 11 | | |
| | WC-66079 | SPOUT ASSY, DILUTION PLASTIC |
| 11A | WC-2965 | SPOUT, BYPASS ASSEMBLY |
| 12 | WC-8556* | HEAT SINK ASSY DV |
| 13 | WC-37255 | KIT, DUAL VALVE WATER INLET |
| 13A | WC-2401 | ELBOW, 3/8 NPT X 1/4 FLARE PLATED |
| 14 | | COVER, FRONT TCTS |
| 14A | | COVER, FRONT CENTER WRAP TCTT |
| 14B | | COVER, CENTER WRAP PTT3 |
| 14C | WC-58017 | COVER, CENTER WRAP TCT-35S TCTDP-35S (OLDER UNITS) |
| 14D | WC-58021 | COVER, FRONT CENTER WRAP TCTT/TCTD-35S (OLDER UNITS) |
| 14E | WC-58101 | COVER, CENTER WRAP SS PTT3 (OLDER UNITS) |
| 15 | WC- 102* | SWITCH, TOGGLE SPST 25A 125/250VAC RESISTIVE |
| 16 | WC-3518 | LEG, GLIDE 3/8"-16 STUD SCREW |
| 16A | WC-3503 | LEG, 8-32 STD SCREW BUMPER |
| 17 | WC-8531 | RAIL, BASE TCTD |
| 18 | WC-5853-102 | COVER, TOP HEATING TANK GEN USE |
| 18A | WC-5851 | COVER, TANK W NOTCHES (OLDER UNITS) |
| 19 | WC-43062 | GASKET, TANK LID |
| 20 | WC-6277 | TANK, COMPLETE 1600W 120V |
| 21 | WC-5231* | COMPOUND SILICONE 5 OZ |
| 22 | WC-5502-01* | KIT, PROBE, ASSY WATER LEVEL W/HEX FITTING, O-RING & NUT |
| 23 | WC- 904-04* | ELEMENT, HEATING 1.6KW 120V W/JAM NUTS |
| 24 | WC-4394 | SHOCK GUARD, HEATING ELEMENT |
| 25 | WC-1438-101* | SENSOR, TEMPERATURE TANK |
| 26 | WC- 523* | THERMOSTAT, MANUAL RESET 120/220V 25A 220°F MAX |
| 27 | WC-5310* | TUBING, 5/16" ID X 1/8" W SILICONE |
| 28 | WC-2707 | TEE, FLARE ¼ x ¼ x ¾ BRASS |
| 29 | WC-53038 | TUBE ASSY, FLEXIBLE 1/4 FLARE 11-1/8" |
| 30 | WC- 826L* | VALVE, INLET 1 GPM 120V 10W |
| 31 | WC- 826L WC- 895-105 | VALVE, INLET DUAL 120V 10W 2 GPM X .5 GPM |
| 31A | WC- 895-105 WC- 801* | VALVE, INLET BRASS .50 GPM 120V 10W RU/WB (OLDER UNITS) |
| 31A 32 | WC-43134 | |
| | | O'RING, .426 X 9/16 O.D X .070 WALL EDPM TCTS VALVE, CHECK 3/8 X 3/8 BARB SS WITH O-RING & .010 SPRING |
| 33 | WC- 810-103 | |



* RECOMMENDED PARTS TO STOCK

Illustrated Parts List TCN



| 1 | WC-61436 | LID, BLACK PLASTIC TCN |
|---|----------|--------------------------------|
| 2 | WC-38471 | LABEL, FRONT TCN GENERIC |
| 3 | WC-1803* | FAUCET, SPB |
| 4 | WC-37260 | KIT, FAUCET W/ADAPTER COMPLETE |
| 5 | WC-3707* | KIT, REPAIR SPB FAUCET |
| 6 | WC-1805* | SEAT CUP. FAUCET S' |

DESCRIPTION

ITEM

PART N°

| | | , |
|----|----------|---------------------------|
| 6 | WC-1805* | SEAT CUP, FAUCET S' |
| 7 | WC-38163 | LABEL, CURTIS SWP CLR/WHT |
| 8 | WC-5686 | DRIP TRAY, OCTAGON STYLE |
| 9 | WC-3531* | LEG, PLASTIC GLIDE TCN |
| 10 | WC-3289 | HANDLE, GASKET |

* RECOMMENDED PARTS TO STOCK

TCT ELECTRICAL SCHEMATIC



TEA TIPS



WARNING DO NOT refrigerate unused tea overnight for later consumption.

CLEANING



IMPORTANT: If the brew cone comes with a screen; clean the screen to maintain the

tea flow. Neglecting this screen will eventually cause the brewcone to overflow, spilling hot liquid over the unit.



CAUTION: DO NOT use undiluted bleach or chlorine.

- 1. Store tea bags in a dark, cool and dry place away from strong odors and moisture. Do not refrigerate.
- 2. Never hold finished brewed tea for more than eight hours at room temperature. Discard any unused tea after eight hours
- 3. Brew only enough tea that you reasonably expect to serve within a few hours.
- 4. To protect tea flavor and to avoid bacterial contamination and growth, clean and sanitize tea brewing, storage and dispensing equipment at least once a day.

Regular cleaning of your airpots and tea containers will maintain the highest quality coffee and iced tea your equipment is capable of producing. A proper cleaning is essential in preserving the appearance of the brewer.

- 1. Turn off the tea brewer at the ON/OFF button on the front control panel.
- 2. Wipe exterior surfaces with a damp cloth, removing spills and debris.
- Slide the brewcone out and clean it. Thoroughly soap the sprayhead area with a mild detergent solution.
- 4. Wash the brewcone and wire brew basket, if applicable. Use a soft bristled brush for hard to clean areas. Wash both parts with a detergent solution or put these parts through a dishwasher.
- 5. Wash the tea container and top cover. Use a detergent solution and a soft bristled brush to clean inside the container. Wipe the exterior surfaces with a sponge and detergent solution. Rinse thoroughly.
- 6. Clean the faucet assembly. Unscrew the handle assembly from the faucet and remove. Clean the faucet shank with a gage glass brush (circular bristle) by pushing the brush through the shank. Using the same brush clean the faucet body inlet and outlet. Clean the faucet cap and silicone seat cup.
- 7. After the cleaning, place the parts (sprayhead, brewcone and basket and faucet parts) into a sink to be sanitized.

To sanitize the disassembled parts:

- A. Use a clean container to submerge all parts. Wear rubber gloves for protection.
- B. Immerse in commercial Bar Tabs/Sani-Tabs sanitizing solution The solution must be warm (75°F.) Let the parts soak for at least one minute.
- 8. Thoroughly rinse parts with hot water. Air dry, all parts that were sanitized.
- 9. After cleaning, sanitizing and drying, assemble any parts taken from the tea container.
- 10. Clean out airpots with a sponge brush and a mild detergent solution. To remove mineral deposits, fill liner with vinegar and allow to soak.

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 unit. Locate the top of the tank and remove the cover.
- 3. Drain the tank to a level about 3" below the tip of the probe.
- 4. Allow some time for the probe to cool before working on the brewer.
- 5. Clean the tip of the probe using a Scotch-Brite[™] scuff pad.
- 6. If a residual white layer is still visible on the probe, remove the probe and soak it in vinegar or a scale removing chemical. Repeat this step until the white layer is removed.



TCT ROUGH-IN DRAWING



PTT ROUGH-IN DRAWING



Product Warranty Information

The Wilbur Curtis Company 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, the Wilbur Curtis Company 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 <u>www.wilburcurtis.com</u> to view the full product warranty information.

CONDITIONS & EXCEPTIONS

The warranty covers original equipment at time of purchase only. The Wilbur Curtis Company, Inc., assumes no responsibility for substitute replacement parts installed on Curtis equipment that have not been purchased from the

Wilbur Curtis Company, Inc. The Wilbur Curtis Company 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.
- 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.
- 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. The Wilbur Curtis Company 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 Company 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.

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