



WILBUR CURTIS COMPANY, INC.

Gem-12 Satellite Brewer Instructions

Important Safeguards/Conventions

This appliance is designed for commercial use. Any servicing other than cleaning and maintenance should be performed by an authorized Wilbur Curtis service center.

- Do NOT immerse the unit in water or any other liquid
- To reduce the risk of fire or electric shock, do NOT open top panel. No user serviceable parts inside. Repair should be done only by authorized service personnel.
- Keep hands and other items away from hot parts of unit during operation.
- Never clean with scouring powders, bleach or harsh implements.

Conventions



WARNINGS – To help avoid personal injury



Important Notes/Cautions – from the factory



Sanitation Requirements

Your Curtis Gemini System is Factory Pre-Set and Ready to Go... Right from the Carton.

Following are the Factory Settings for your Gem-12:

- **Brew Temperature** = 200°F
- **Water Bypass** = 35%
- **Brew Volume** = Set to 36 cup Satellite requirements.

System Requirements:

- **Water Source** 20 – 100 PSI (Minimum Flow Rate of 1 GPM)
- **Electrical:** See attached schematic for standard model or visit www.wilburcurtis.com for your model.

SETUP STEPS

The unit should be level (left to right and front to back), located on a solid counter top. Connect a water line from the water filter to the brewer. NOTE: Some type of 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.



The National Sanitation Foundation requires the following water connection:

1. 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.
2. In some areas an approved backflow prevention device may be required between the brewer and the water supply.

1. A 3/8" NPT x 1/4" Flare elbow has been supplied for water line connection. Use tubing sized sufficiently to provide a minimum of 1.0 GPM.
2. Connect the unit to an appropriate electrical power circuit.
3. Remove the top cover to locate the primary thermostat. Make sure thermostat is turned off.
4. Open the water supply valve and turn on power at the main breaker. Heating tank will start to fill. Turn on power at toggle switch, behind the brewer.
5. Turn on thermostat, twist stem clockwise.
6. The heating tank will require 20 to 30 minutes to reach operating temperature (200°F).
7. Prior to brewing, dispense 12 ounces of hot water through the hot water faucet.
8. Brew a cycle of at least 12 ounces, to purge the water lines of any air that may be trapped after filling.

BREWING INSTRUCTIONS

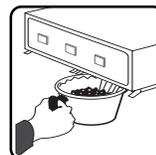
1. Brewer should be ON (Confirm at rear toggle switch, then press the ON/OFF button). Ready-to-Brew light should be ON.
2. Place an empty Satellite on the warmer deck, under the brewcone and press the warmer switch.



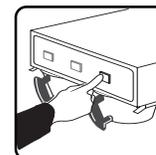
3. Place a clean filter into the brewcone.



4. Fill brewcone with ground coffee.



5. Transfer filled brewcone to brewer.



6. Press Brew button. Brewing will begin immediately.



WARNING: To avoid scalding, allow brewcone to drain before removing.



ISO 9001 REGISTERED

WILBUR CURTIS COMPANY
Montebello, CA 90640

CARE AND MAINTENANCE

Regular cleaning and preventive maintenance is essential in keeping your GEMINI system looking and working like new.



CAUTION: Do not use cleansers, bleach liquids, or powders that contains chlorine. These products cause corrosion and pitting to stainless steel and will void the warranty.

PREVENTIVE MAINTENANCE

1. Remove the sprayhead (index N° 22) from brewer and clean it once a week or more often in heavy lime areas.
2. Clean faucet seat cups on the GEM-3 Satellite twice a week and replace when cracked or leaking.
3. Remove hot water spout aerator (index N° 14) from the hot water spout and clean it at least once a week.
4. Periodic temperature checks in the water tank. If too low, thermostat should be adjusted by a qualified technician.
5. The inside of the heating tank should be de-limed at least every six months, especially in heavy lime areas.

BY-PASS

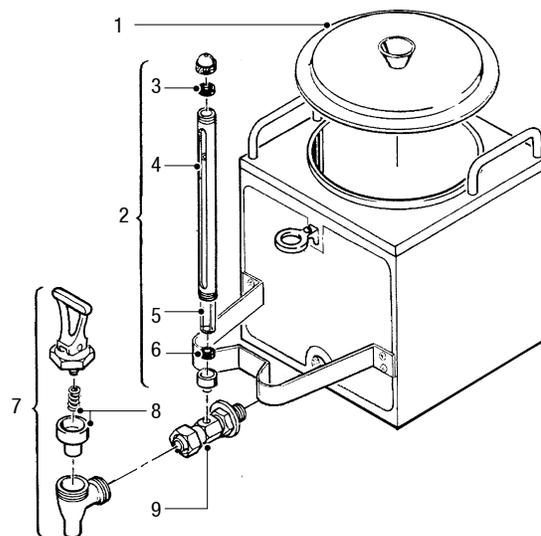
These brewers are pre-set at the factory to brew 36 cups (1½ gallons) of coffee and by-passing approximately 40% of the water away from the coffee grounds. Should you have the need to change this setting to brew a gourmet cup of coffee or just to change the amount of water by-passed, you may do so by adjusting the by-pass adjustable flow restrictor (part number WC-2987, #20 on Parts List).

BY-PASS FLOW ADJUSTMENT

1. Slide brew cone out to expose bypass outlet. Place one measuring cup under the bypass fitting, and another measuring cup under the brew cone outlet. Press the LARGE brew button for 15 seconds, then press the ON/OFF button to stop the brew cycle.
2. Divide the number of ounces collected from the bypass outlet into the total ounces collected from the sprayhead and bypass. This will determine the percentage of bypass.
3. To increase or decrease the volume of bypass water, turn the adjustment screw on the bypass valve as indicated. Clockwise for less water; counterclockwise for more water.
4. You must reprogram the brew volume to maintain the proper total amount of coffee brewed into the insulated server. Resetting the brew timer is required every time you make a bypass adjustment or change to a different sprayhead.

PARTS DIAGRAMS

GEM-3, SATELLITE COFFEE SERVER

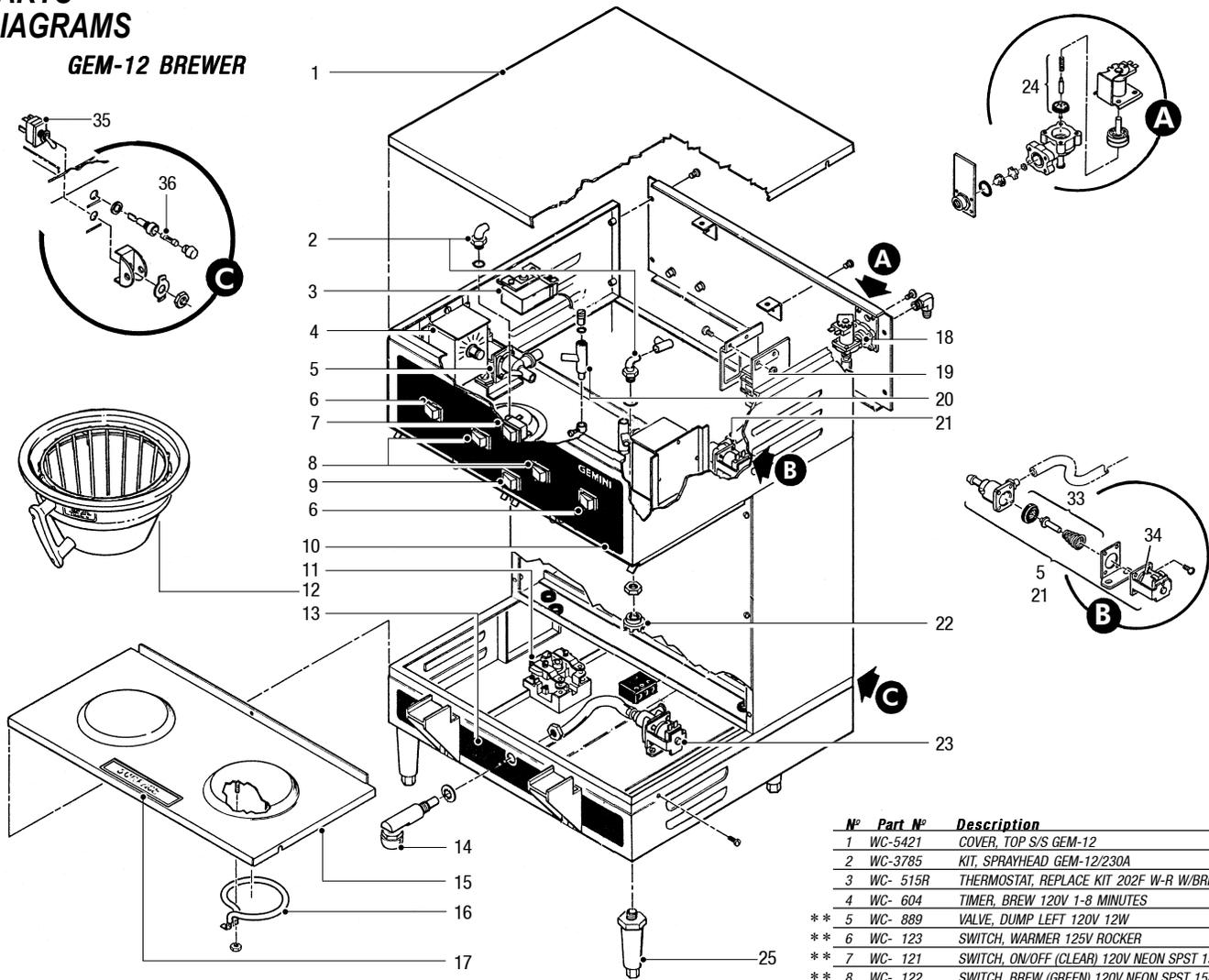


N°	Part N°	Description
1	WC-3307	LID, SATELLITE
1A	WC-5622	LID, SATELLITE PLASTIC GEM3
2	WC-2102	GAUGE GLASS ASSEMBLY 8"
3	WC-2005*	WASHER, SHIELD CAP 1/8"
4	WC-2010C	SHIELD, 8 INCH GAUGE GLASS
5	WC-2025*	GAUGE GLASS, 8 INCH
6	WC-2006*	WASHER, SHIELD BASE 3/16"
7	WC-1800	FAUCET, S' NON LOCKING
7A	WC-1841	FAUCET, ESP BLACK NON-LOCKING PLASTIC
8	WC-3705*	KIT, FAUCET S' SERIES
9	WC-1901	SHANK, FAUCET D&T CHROME

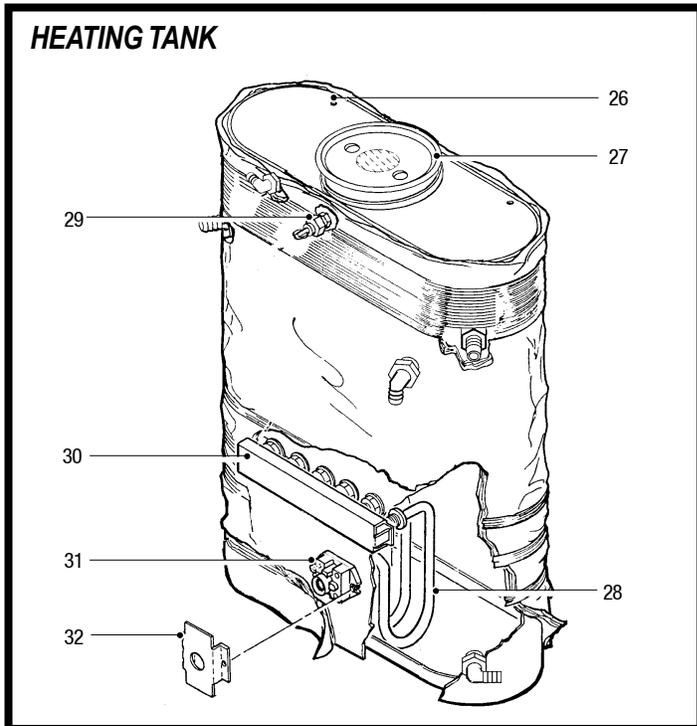
* Suggested parts to stock for servicing.

PARTS DIAGRAMS

GEM-12 BREWER



HEATING TANK

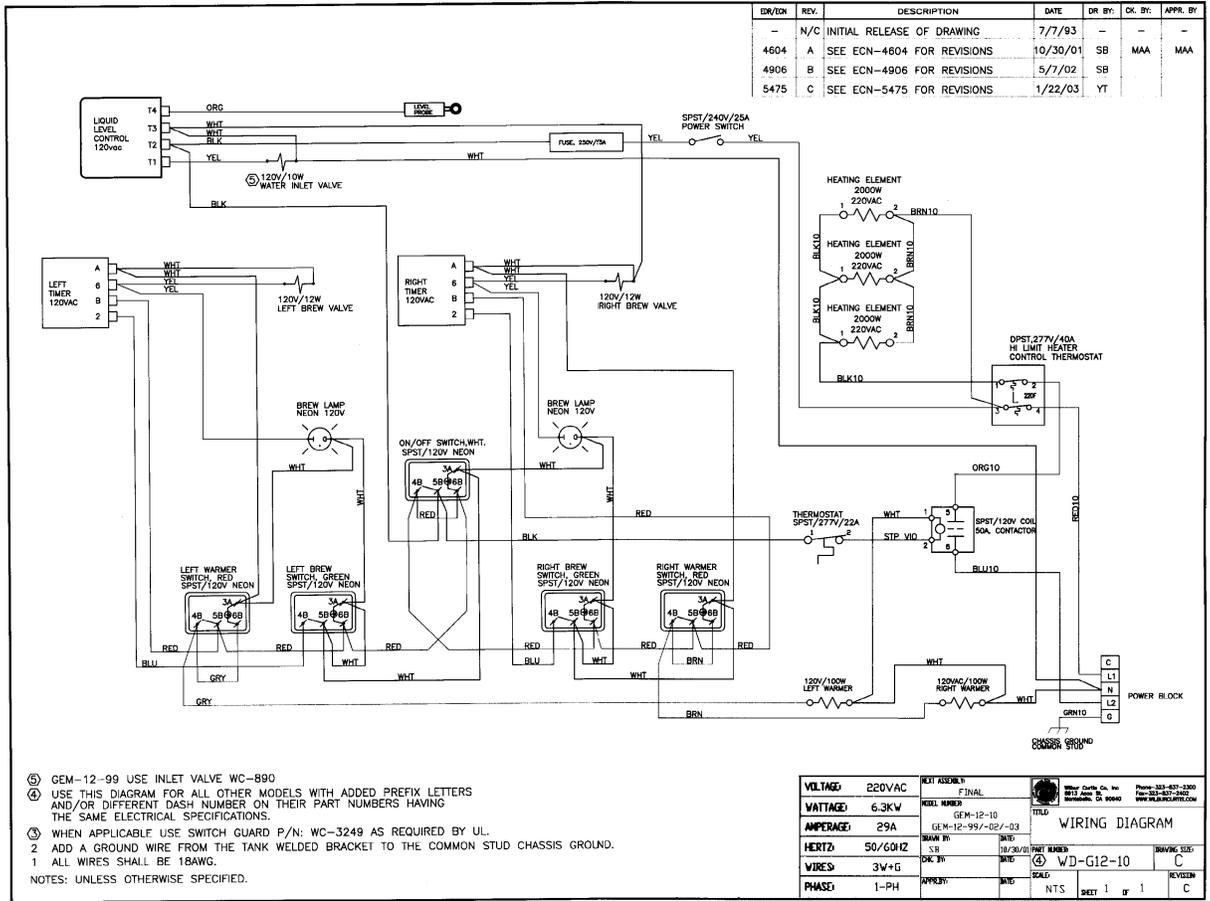


N°	Part N°	Description
1	WC-5421	COVER, TOP S/S GEM-12
2	WC-3785	KIT, SPRAYHEAD GEM-12/230A
3	WC- 515R	THERMOSTAT, REPLACE KIT 202F W-R W/BRKT
4	WC- 604	TIMER, BREW 120V 1-8 MINUTES
** 5	WC- 889	VALVE, DUMP LEFT 120V 12W
** 6	WC- 123	SWITCH, WARMER 125V ROCKER
** 7	WC- 121	SWITCH, ON/OFF (CLEAR) 120V NEON SPST 15A 250V
** 8	WC- 122	SWITCH, BREW (GREEN) 120V NEON SPST 15A 250V
** 9	WC- 124*	SWITCH, HOT WATER (RED) 120V NEON SPST 15A 250V
10	WC-3910*	PANEL, TOP & BOTTOM GEM-12
10A	WC-3910-01	LABEL, SWITCH PANEL W/O HW CURTIS
** 11	WC- 400R	RELAY, SPST 120V COIL 50A
12	WC-3357	BREWCOONE ASSY W/WC-3311 & WC-3301
13	WC-3910B-01	LABEL, BOTTOM PANEL GEM-12
** 14	WC-1809	FAUCET, PS/HPS SERIES HOT WATER ½-20 UNF W/JAM
14A	WC-2912BK*	SPOUT, HOT WATER NO SPLASH
15	WC-5423	DECK, WARMER W/ASSEMBLY
** 16	WC-37102	KIT, WARMER ELEMENT 100W 120V
17	WC-38310	LABEL, CAUTION HOT SURFACE
** 18	WC- 847	VALVE, INLET 2GPM 120V 10W
** 19	WC- 608	LEVEL CONTROL, WATER 120V
20	WC-2987	BY-PASS ASSEMBLY
** 21	WC- 817	VALVE, DUMP RIGHT 120V 12W W/RECTIFIER
** 22	WC-2906	SPRAYHEAD, BLUE .178 DIA ORIFICE
** 23	WC- 818*	VALVE, HOT WATER RIGHT 120V 12W GEMS
** 24	WC-3765	KIT, VALVE REPAIR
25	WC-3500	LEG, 4" ADJUSTABLE
26	WC-5432	TANK ASSY, COMPLETE
27	WC-37008	KIT, TANK LID
** 28	WC- 906	HEATING ELEMENT 220V W/JAM NUT
** 29	WC-5502-01	PROBE ASSY, WATER LEVEL
30	WC-4382	GUARD, SHOCK HEATING ELEMENTS
** 31	WC- 522	THERMOSTAT, RESET
32	WC-43055	GUARD, SHOCK RESET THERMOSTAT
** 33	WC-3766	KIT, DUMP VALVE
34	WC- 419	COIL, DUMP VALVE 120VAC
** 35	WC- 102	SWITCH, TOGGLE
** 36	WC-1500	FUSE, 5 AMP 5/PKG

* Components used on earlier models of Gem-12, equipped with electric hot water faucet.

** Suggested parts to stock for servicing.

ELECTRICAL SCHEMATIC



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 Burs 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. 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.
- 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, "O" 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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 6913 Acco St., Montebello, CA 90640-5403 USA
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 ♦ Web Site: www.wilburcurtis.com