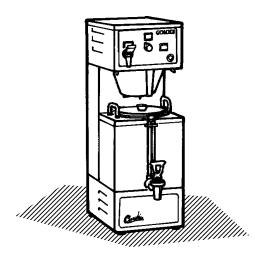
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GEM-120A Satellite Brewer Instructions

GEMINI COMMERCIAL COFFEE BREWING SYSTEMS



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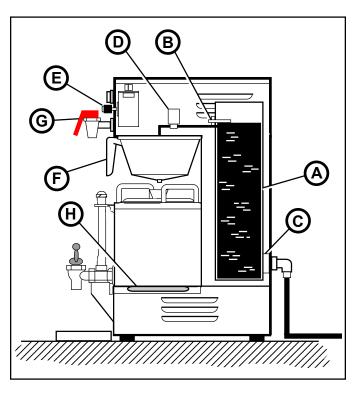
WILBUR CURTIS COMPANY Montebello, CA 90640



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

UNPACKING

All products manufactured by the Wilbur Curtis Company are thoroughly inspected at the factory and are warranted to be free of all defects or faulty workmanship. The Gemini unit is packaged for



maximum protection while being shipped. Make sure the shipping carton is not damaged or punctured. Unpack the carton carefully, inspecting the contents for any damage that may have occurred in transit. Report any damage immediately to the freight company.

FUNCTION OF THE GEMINI

The water in the heating tank **A**, is maintained at the same level at all times by a sensor called the water level probe **B**. This controls the water inlet valve **C**.

When the brew switch is pushed, a brew cycle starts: The dump valve **D**, is opened by the brew timer **E**, allowing hot water to be sprayed over the ground coffee for a specific time period .

Brewed coffee then pours from the brew cone **F**, into the Satellite.

The hot water faucet **G**, dispenses hot water for tea, instant beverages, or soups and can

be used at any time without interrupting the brew cycle. A warmer element, **H**, keeps the coffee in the Satellite at the proper temperature.

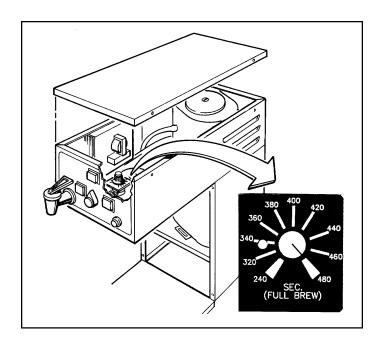
NOTICE

This brewer must be installed by a professional licensed technician and must comply with all local electrical, mechanical and plumbing codes having jusrisdiction. Wilbur Curtis Company will not accept any responsibility if these conditions are not met. This machine must be used for it's intended purpose and the function for which it was designed.

SETUP INSTRUCTIONS

- 1. Locate a position for the Gemini 120A on a firm and level, counter top.
- 2. Remove the top cover of the brewer and lid from the heating tank. Hand fill the tank until the water level is approximately two (2) inches below the probe tip.
- 3. A 1/4" female flare fitting is required for water supply. Connect the water line to the inlet valve fitting and turn on the water.
- 4. With the top cover removed, turn thermostat stem clockwise until it stops.
- 5. Plug the unit into a power supply outlet and turn toggle switch on. Turn ON/OFF switch to ON position. Make sure water is flowing into the heating tank. Filling should stop when the water level reaches the probe tip. When this is verified, replace both tank lid and top cover to the machine.
- 6. Allow 15 to 20 minutes for the water in the tank to reach brewing temperature. The BREW READY light will come on when it reaches the correct temperature.

ADJUSTMENT INSTRUCTIONS FOR TIMER WC-603RDS



The Gemini 120A now has a new timer which was introduced starting from serial number 14866. It is a new, improved version of the previous WC-603 RD timer. The wiring on this has remained exactly as on the older versions to make retrofitting easier. The timer is mounted inside the upper compartment with the brew selector knob protruding from the center of the front panel (see illustration, left). The brewer is designed to brew 24 cups (one gallon maximum). Adjustment of the timer is made on the timer calibration dial. The knob indicator must be set at the 480 second mark on the dial. On the front panel, the brew selector switch should be at 2. This setting will deliver one gallon of water (brew 24 cups) per brew cycle. To brew 12 cups, simply turn the brew selector knob to 1.

If finer adjustments are needed, rotate timer knob to the right to increase the brew time, rotate to the left to decrease the brewing time.

CARE AND MAINTENANCE OF THE GEMINI 120A

Regular cleaning and preventive maintenance is essential in keeping your Gemini Coffee Brewer looking and working like new.

- WARNING Do not use cleansers, liquids, bleaches, or powder that contain chlorine.
- These products cause corrosion and pitting on stainless steel and will void your warranty.

PREVENTIVE MAINTENANCE:

- 1. Remove the sprayhead from the Gemini 120A and clean once a week or more often in heavy lime areas.
- 2. Clean the faucet seat cups twice a week and replace when they are cracked or leaking.
- 3. Periodic temperature checks or adjustment of thermostat by authorized personnel.

CLEANING

To maintain optimum coffee flavor, the Gem 3 Satellite should be cleaned daily after the last batch of coffee is used. We recommend the use of urn cleaning powder or Scotch Bright pads for cleaning inside the coffee container.

The outside of the brewer and Satellite should be cleaned with a soft cloth and stainless steel polish only, to prevent scratching the surface.

Deliming of the heating tank should be done every six (6) months; more often in heavy lime areas.

TROUBLE SHOOTING

PROBLEM: WATER DOES NOT FLOW INTO HEATING TANK

| POSSIBLE CAUSE | SOLUTION |
|---|--|
| Water line turned off or filter clogged up. | Open the water line and make sure water flows to the brewer. |
| 2. Water inlet valve coil burned out | Turn off brewer. Disconnect wires from water inlet coil terminals and connect a power cord to the terminals. Plug cord into a 110v outlet and verify that water flow when plugged in and stops when cord is disconnected. If valve does not respond to this test, replace the valve. |
| Grounded probe (item #12) | When water in the heating tank is below the probe tip, yet water is not refilling, pull the wire off the probe terminal. If water starts flowing into the tank, find ground, clean or replace the probe. |
| Defective or burned out water level control board (item #3) | Pull the wire from the probe terminal. With a volt meter, check the voltage at the water inlet coil terminals. This should read 110 to 115 volts. If no voltage is present, check the water level control board. Make sure that the back of the board is grounded securely to the mounting bracket. Check for loose wire connections. Replace board. |

PROBLEM: WATER IN HEATING TANK OVERFLOWING

| POSSIBLE CAUSE | SOLUTION |
|---|---|
| 5. Defective water inlet valve (item #28) | Turn power off and observe the water level in the heating tank. If water continues to flow in, clean or replace the valve. |
| 6. Probe limed up (item #12) | Pull wire off from probe terminal. Touch the water tank shell with the terminal at the end of this wire. If water stops flowing, clean or replace the probe. |
| Loose or ungrounded water level control board (item #3) | If probe is okay, check the water level control board. The water level control board must be securely grounded. Check for loose connections. Check for voltage at the inlet valve terminals. Replace board. |

PROBLEM: WATER IN TANK DOES NOT GET HOT OR WATER TEMPERATURE TOO LOW

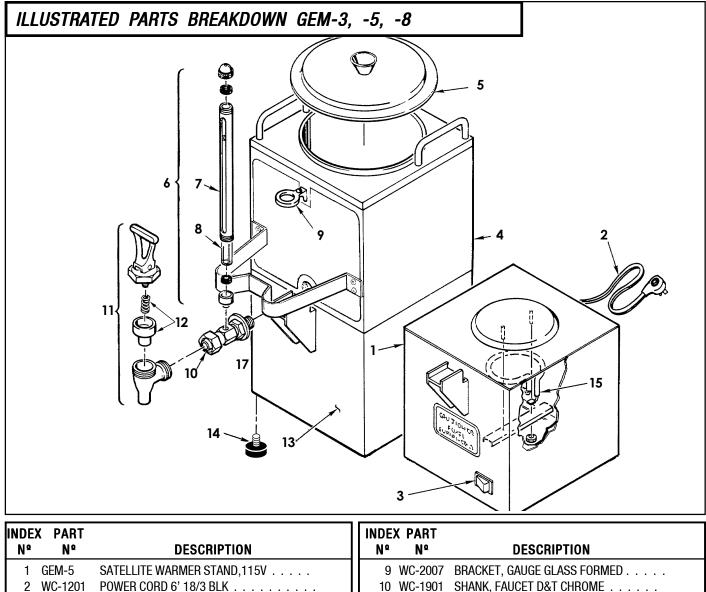
| POSSIBLE CAUSE | SOLUTION |
|---------------------------------|--|
| 8. Thermostat is off (item #31) | Check the thermostat (item #31) to make sure it is in the ON posi- tion. Turn the thermostat stem clockwise until it stops. |
| 9. Burned out heating element. | Check element for continuity and/or check with clamp ammeter. This should show a reading of approximately 15 amps. If no power is going through element, replace it. |

PROBLEM: WATER IN TANK DOES NOT GET HOT OR WATER TEMPERATURE TOO LOW

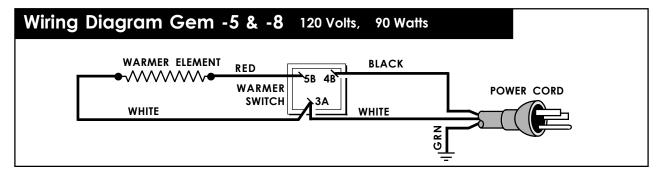
| POSSIBLE CAUSE | SOLUTION |
|--------------------------|---|
| 10. Defective thermostat | Thermostat may be cutting off before the water temperature reaches operating temperature. Do not try to reset the thermostat. Replace it. |

PROBLEM: WATER NOT FLOWING FROM SPRAYHEAD.

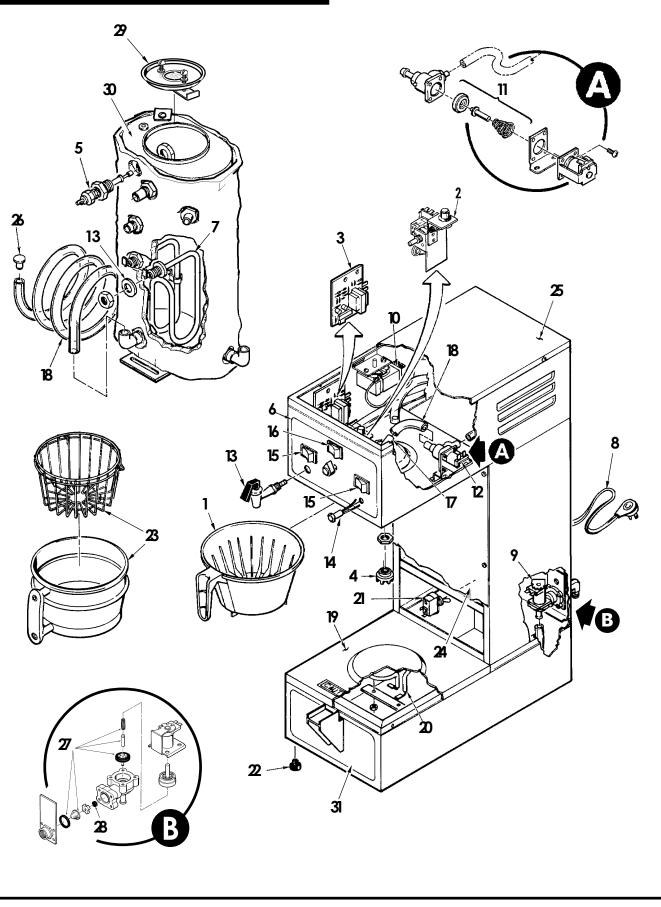
| POSSIBLE CAUSE | SOLUTION |
|--|---|
| 11. Water level is too low in heating tank | Check water level in tank. If water is not flowing into the tank, review steps 1 thru 4, previous page. |
| 12. Defective brew switch (item #41) | Check the continuity between terminals 5B and 4B when the BREW switch is pressed. If there is no continuity, replace the switch. |
| 13. Defective timer (item #2). | Make sure the timer is receiving 110 to 120 volts. You can verify this by taking a reading with your meter at the end of the YELLOW wire on terminal 5B of the ON/OFF switch and at terminal A of the timer. When the timer is activated by the brew switch, you should read 110 to 120 volts across terminals 6 and A of the timer. The RED wire on terminal 6 supplies power to open the dump valve. If no voltage is present, replace the timer. |
| 14. Burned out dump valve coil (item #34) | If the timer works when the brew switch is pressed, then check the dump valve using a voltmeter on the terminals. If it shows 110 to 120 volts but no water flows through the valve, clean out the valve or replace the coil. |



| N- | N - | DESCRIPTION | IN - | N- | DESCRIPTION |
|----|----------|--|------|----------|---|
| 1 | GEM-5 | SATELLITE WARMER STAND, 115V | 9 | WC-2007 | BRACKET, GAUGE GLASS FORMED |
| 2 | WC-1201 | POWER CORD 6' 18/3 BLK | 10 | WC-1901 | SHANK, FAUCET D&T CHROME |
| 3 | WC- 114R | SWITCH, ROCKER 120V RED | 11 | WC-1800 | FAUCET S' NONLOCKING |
| 4 | GEM 3 | SATELLITE SERVER 1½ GAL | 11A | WC-1841 | FAUCET, "ESP" BLACK NONLOCKING (OPTIONAL) |
| 5 | WC-3307 | LID GEMINI SATELLITE | 12 | WC-3705 | KIT FAUCET S' SERIES |
| 5A | WC-5622 | LID, SATELLITE PLASTIC GEM3 (OPTIONAL) | 13 | GEM 4 | SATELLITE STAND |
| 6 | WC-2102 | GAUGE GLASS ASSEMBLY, 8" C | 14 | WC-3503 | LEG, SCREW BUMPER 3/8"-16 STD |
| 7 | WC-2010C | SHIELD, 8 INCH GAUGE GLASS | 15 | WC-37102 | KIT, WARMER ELEMENT 100W 120VAC |
| 8 | WC-2025 | GAUGE GLASS, 8 INCH | | | |
| | | | | | |



GEMINI 120A Parts List



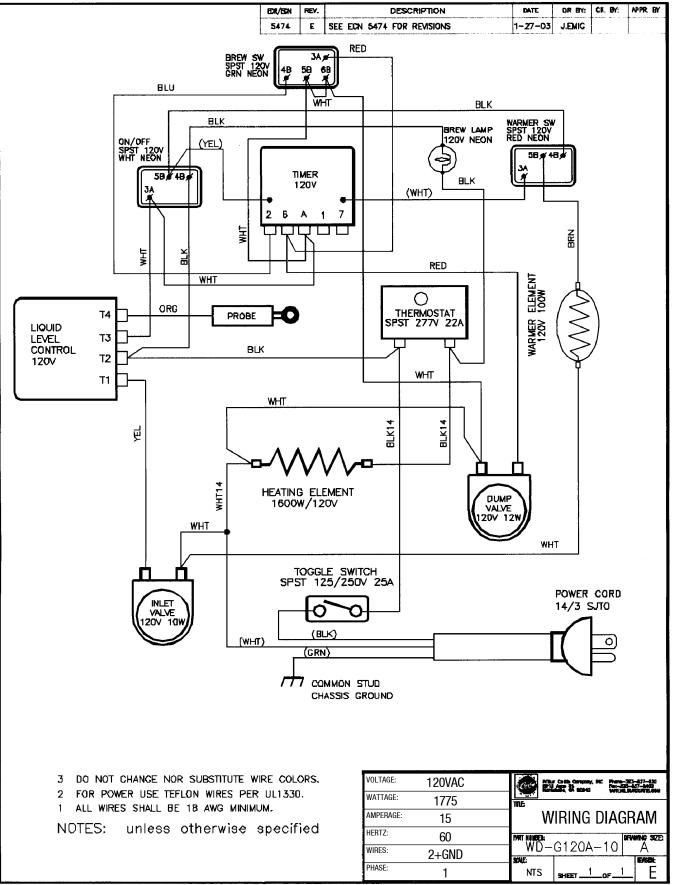
GEMINI 120A Parts List

| ltem Nº | Part Nº | Description | |
|------------|-----------------------|--|--|
| | WC-3621 | · · · · · · · · · · · · · · · · · · · | |
| 1 2 | WC-3621 WC- 603RDS | BREW CONE, UNIVERSAL 7 1/8" BLK PLASTIC | |
| 2 | WC- 603RDS WC- 608 | | |
| 3 4 | WC-2936 | | |
| 4 5 | WC-2936 WC-5502-01 | SPRAYHEAD, RED (.131 DIA) | |
| 5 6 | WC-3920T | LABEL, TOP GEM 120A | |
| 7 | WC-39201 WC- 904 | ELEMENT, ENVELOPE HEATING w/SCREWS GEN USE | |
| 7 7A | WC- 904 WC- 906-04 | HEATING ELEMENT, 2000W, 220V W/JAM NUTS | |
| 8 | WC-1200 | POWER CORD, 6' 14/3 BLK SJTO | |
| 9 | WC- 826 | VALVE, INLET 1 GPM 120V 10W | |
| 10 | WC- 517 | THERMOSTAT, CAPILLARY SPST 277V 22A GEN USE | |
| 10 | WC-3763 | KIT, VALVE REPAIR FOR WC-866, WC-889, WC-816, WC-817, WC-818 | |
| 12 | WC- 817 | VALVE, DELTROL DUMP RIGHT 120V. | |
| 13 | WC-1809 | FAUCET, HOT WATER W/JAM NUT | |
| 14 | WC- 202 | LIGHT, BREW 115V | |
| 14A | WC- 203 | LIGHT, BREW 220V | |
| 15 | WC- 114R | SWITCH, ROCKER 120V RED | |
| 16 | WC- 122 | SWITCH, ROCKER BREW 120V GREEN | |
| 17 | WC-2977-01 | FITTING ASSY, SPRAYHEAD PLATED TIN NICKEL | |
| 18 | WC-5310 | TUBE, 5/16" I.D. SILICONE GEN USE | |
| 19 | WC-5451 | WARMER DECK, NO ELEMENTS | |
| 20 | WC- 947 | ELEMENT, WARMER 90W, 115V | |
| 21 | WC- 102 | SWITCH, TOGGLE SPST 25A 125/250 VAC RESISTIVE | |
| 22 | WC-3503 | LEG, SCREW BUMPER 3/8-16 STD | |
| 23 | WC-3338 | KIT, BREW CONE W/BASKET SS 7 1/8" DELUXE BLK HANDLE (OPTIONAL) | |
| 24 | WC-5452 | COVER, FRONT GEM-120A/120P/230A/200R/300IL/600ILD | |
| 25 | WC-5450 | COVER, TOP D500, G230A, G120A, PTB | |
| 26 | WC-43058 | PLUG, DRAIN PP RED | |
| 27 | WC-3765 | KIT, VALVE REPAIR (USE ON WC-825 WC-826) | |
| 28 | WC- 829 | WASHER, .35 GPM .5" USE ON WC-825 | |
| 29 | WC-37008 | LID ASSEMBLY, TANK | |
| 30 | WC-5466 | TANK, COMPLETE GEM-120A | |
| 31 | WC-3920B | LABEL, BOTTOM GEM-120A | |

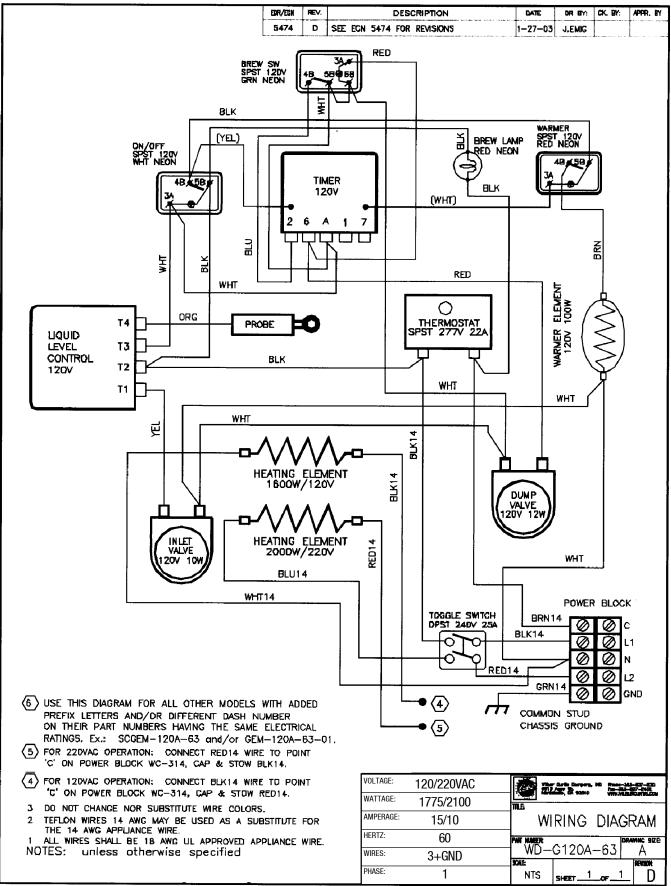
PAPER FILTERS

| Part Number | Description | |
|-------------|---|--|
| GEM-6 | FILTER FOR BREW CONE WC-3338 (500/PKG) | |
| CR-10 | FILTER FOR BREW CONE WC-3621 (1000/PKG) | |

WIRING DIAGRAM – GEM120A-10



WIRING DIAGRAM – GEM120A-63





We hereby certify that the products manufactured by the Wilbur Curtis Company, Inc., are, to thebest of our knowledge, free from all defects and faulty workmanship.

The following warranties and conditions are applicable:

- 1. 1 Year Parts & Labor from Date of Purchase from Factory: This warranty covers all electrical parts, fittings and tubing.
- 2. 40 Months or 40, 000 Pounds of Coffee on a set of Grinding Burrs. (ADS Grinders)
- 3. 3 Years from Date of Purchase: This warranty covers electronic control boards and leaking or pitting of a stainless steel body of a Brewer or Urn.

4. **90 Days from Date of Purchase:** On replacement parts that have been installed on out of warranty equipment All in-warranty service calls must have prior authorization from the manufacturer. For an RMA (Return Merchandise Authorization) number, call the Technical Service Department at 1-800-995-0417. The Wilbur Curtis Company will allow up to 100 miles, round trip, per in-warranty service call.

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 these 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, certified technician and must comply with all local electrical, mechanical and plumbing codes.
- 3) Wilbur Curtis Company will not be responsible for the operation of equipment at other than the stated voltages on the serial plate.
- 4) 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.
- 5) Replacement of items subject to normal use and wear. This shall include, but is not limited to, light bulbs, shear disks, "0" rings, gaskets, canister assemblies. whipper chambers and plates, mixing bowls, agitation assemblies and whipper propellers.
- 6) Any faults resulting from inadequate water supply. This includes, but is not limited to, excessive or low water pressure, and inadequate or fluctuating water flow rate.
- 7) All repairs and/or replacements are subject to our decision that the workmanship or parts were faulty and the defects showed up under normal use.
- 8) All labor shall be performed during regular working hours. Overtime charges are the responsibility of the owner.
- 9) 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.
- 10) All claims under this warranty must be submitted to the Wilbur Curtis Company Technical Service Department before return of the unit to the factory.
- 11) All equipment returned to us must be repackaged properly in the original carton. No units will be accepted if they are damaged in transit due to improper packaging.
- 12) Damaged in transit.
- 13) The resetting of safety thermostats and circuit breakers, programming and temperature adjustments are the responsibility of the equipment owner.

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 center, where service is available. Call the factory for location near you.



WILBUR CURTIS CO., INC.

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