

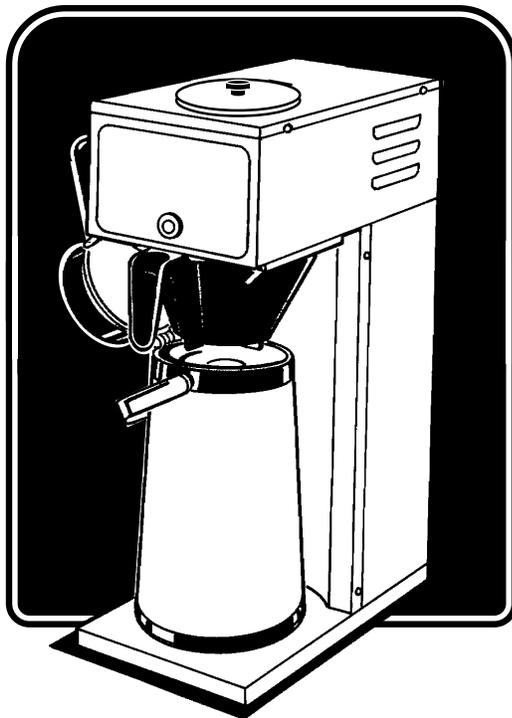
WILBUR



CO., INC.

C250AP

SERVICE MANUAL



Airpot Coffee Brewer

Table of Contents

| | |
|------------------------------|------------|
| Introduction | 1 |
| Using C250AP | 1 |
| Start Up | 1 |
| Brewing | 1 |
| Care & Maintenance | 2 |
| Troubleshooting | 2 |
| Wiring Diagram | 3 |
| Parts List | 4 |
| Warranty | Back Cover |

Carton Contents

| QTY | ITEM |
|-----|-------------------------|
| 1 | C250AP Coffee Brewer |
| 1 | Brew Cone, WC-3621 |
| 1 | Service Manual |
| 25 | Paper Coffee Filters |
| 1 | Pitcher, 64 oz., WC3337 |



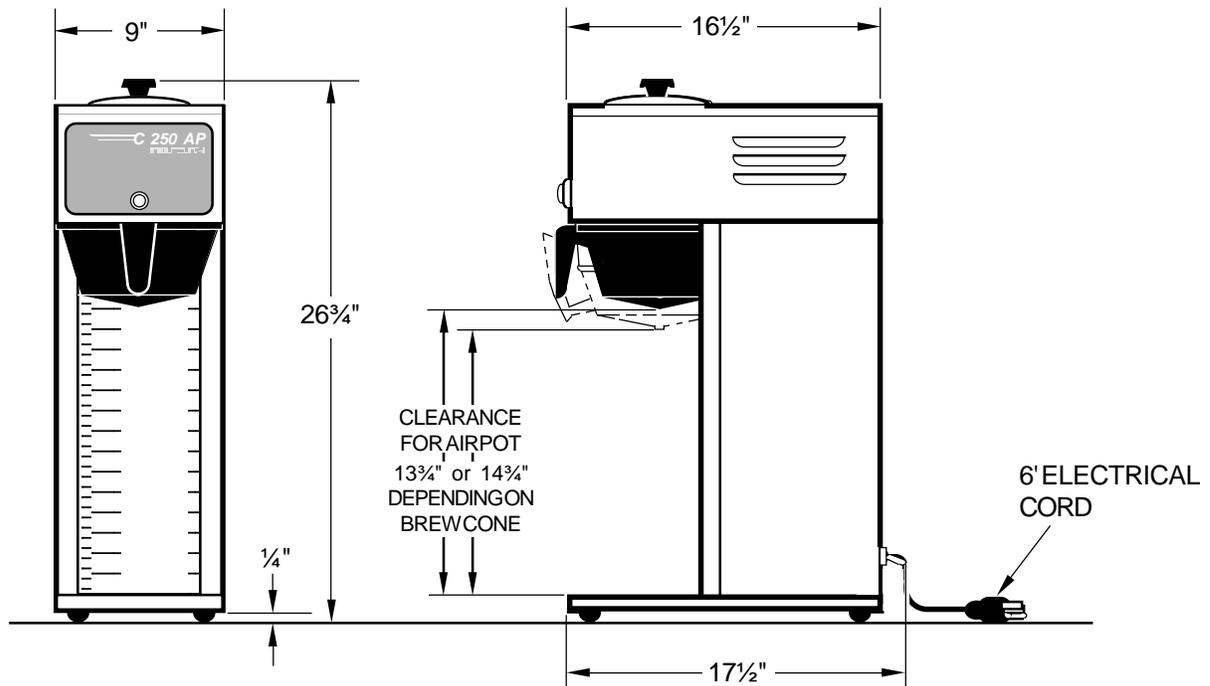
WILBUR CURTIS CO., INC.

6913 Acco St., Montebello, CA 90640 ♦ Web Site: www.wilburcurtis.com ♦ Customer Service Tel: 800/421-6150

♦ Technical Service Tel: 800/995-0417 ♦ E-Mail: techsupport@wilburcurtis.com

C250AP

Rough-in Drawing



SPECIFICATIONS

Power Requirements: 1600W - 14 Amps (on a 20A Circuit)

Shipping Weight: 34lbs.

Electrical: 120 VAC/60 Hz (*Other Voltages Available*)



WILBUR CURTIS CO., INC.

6913 Acco St., Montebello, CA 90640 ♦ Web Site: www.wilburcurtis.com ♦ Customer Service Tel: 800/421-6150

♦ Technical Service Tel: 800/995-0417 ♦ E-Mail: techsupport@wilburcurtis.com

INTRODUCTION

Model C250AP is compatible with most 2.2 liter airpots, and other insulated dispensers up to 13¾" tall when opened for filling (see illustrations). Starting early in 1994, this brewer was increased in height to accommodate the larger Deluxe SS brew cone, or insulated dispensers to 14¾" tall with the Universal (plastic) or optional SS brew cones.

You don't need to connect a water line to use this coffee brewer. To brew coffee, water is poured into the machine manually. Pour-over brewers are quite simple to service and maintain. Read this manual to become familiar with the coffee brewer. You should be able to start brewing coffee within 30 minutes.

INSTALLATION

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

1. Carefully unpack shipping carton. Check for any damage.
2. Place the brewer on a level surface.

CAUTION This brewer is shipped with the thermostat turned on. To prevent damage to the heating element, DO NOT plug in power cord until tank has been filled (step 3).

3. Slide an empty brew cone into place on the unit. Place a container under the brew cone to catch any water that may drip.
4. Pour water into the pour hole on top cover of the brewer (fig 1). When water starts to come out from the sprayhead, the tank is full. Stop pouring.
5. Plug cord into a 120 volt electrical outlet. Switch on power at the toggle switch behind the brewer.
6. Allow the brewer to come to full temperature. The ready light will come on. It will take 15 to 25 minutes the first time the unit is plugged in. There will be some water discharged into the container as the water heats up. This is normal. You are now ready to brew.

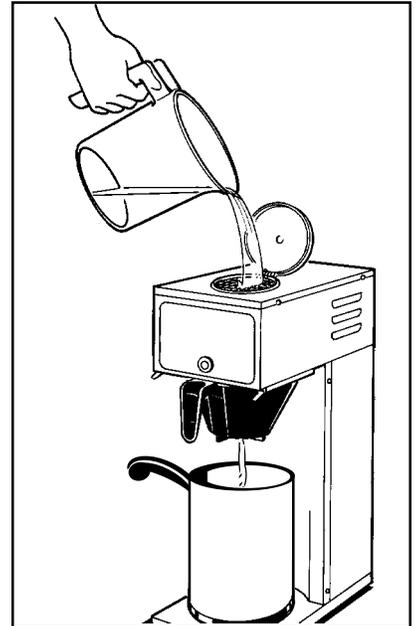


Figure 1. Filling the Heating Tank

IMPORTANT Water may be lost from the tank due to evaporation if the brewer is left for long periods of time without making coffee. When this occurs, top off the tank again (step 3 above) before attempting to brew coffee.

COFFEE BREWING

1. **Place a clean filter into the brewcone. Pour ground coffee into the filter.**
The amount of ground coffee used will depend on personal or regional preferences.
2. **Slide the brew cone on the guide rails in against the stop. Place an empty airpot under the cone.**

Note that most airpots must be opened and the siphon assembly removed for filling. Preheating the airpot is recommended and may increase the serving temperature by 4°-5° F.

COFFEE BREWING, CONTINUED

3. Check that the READY TO BREW light is ON. **Pour water into the pour hole to start brewing (the volume should not exceed the size of the airpot).**

You are now brewing coffee.

WARNING: Coffee coming from the brew basket will be hot. Allow all of the hot coffee to drip from the brew cone before attempting to remove the airpot from the brewer.

CLEANING THE C250AP BREWER

Using a daily routine of cleaning the brewer will maintain the appearance and ensure good tasting coffee.

1. Wipe up any spills, dust or debris from exterior surfaces.
2. Remove the brew cone and wash it in a mild detergent solution. Use a soft bristled brush. Rinse it thoroughly with clean water.
3. Remove the sprayhead and clean. Clean the dome area. Use a mild detergent solution.
4. Clean brew cone rails with a damp cloth or brush. Dry thoroughly.

CAUTION: When cleaning your coffee brewer do not use cleansers, bleach liquids, powders or any other substance that contains chlorine. These products promote corrosion and will pit the stainless steel. **USE OF THESE PRODUCTS WILL VOID YOUR WARRANTY.**

5. The inside of the heating tank may occasionally require the removal of lime buildup. The frequency will depend on local water conditions.

TROUBLESHOOTING

These procedures apply specifically to model C250AP-10. They also apply to other dash numbers which are based on the -10 schematic (page 3), units rated 120 volts, 1600 watts, two wire plus ground. Check the serial plate on your unit to determine power rating.

PROBLEM: Water in the heating tank is boiling, heating elements do not shut off.

SOLUTION:

1. Defective thermostat: If READY TO BREW light does not turn on, replace the thermostat. You can sometimes operate the brewer temporarily by turning the thermostat shaft counter clockwise until the brew light comes on.

PROBLEM: Water in the heating tank does not heat up at all.

SOLUTION:

1. Check power supply. Make sure power switch is on.
2. Check thermostat. Make sure it is turned on, fully clockwise.
3. See that the button on the reset thermostat has not popped out. This is a safety feature that trips off the power going to the heating element when the temperature gets too high. There are usually two reasons for this to happen. Either the water in the heating tank has been allowed to evaporate to the point that the heating element is no longer submerged in water or the thermostat is defective and the heating elements do not shut off; the water boils off and exposes the element to air. To reset the thermostat, press in the RED button on the lower front of the heating tank (#41). You will hear a distinct "click".
4. Remove the wires from element terminals to test the element for continuity. You may use a clamp type ammeter. Clamp it around black wire from thermostat to the heating element. Your ammeter should read from 12.5 to 14 amps. You can run this test with out disconnecting the wires. If no continuity exists or no amps are reading on your ammeter, replace the element.

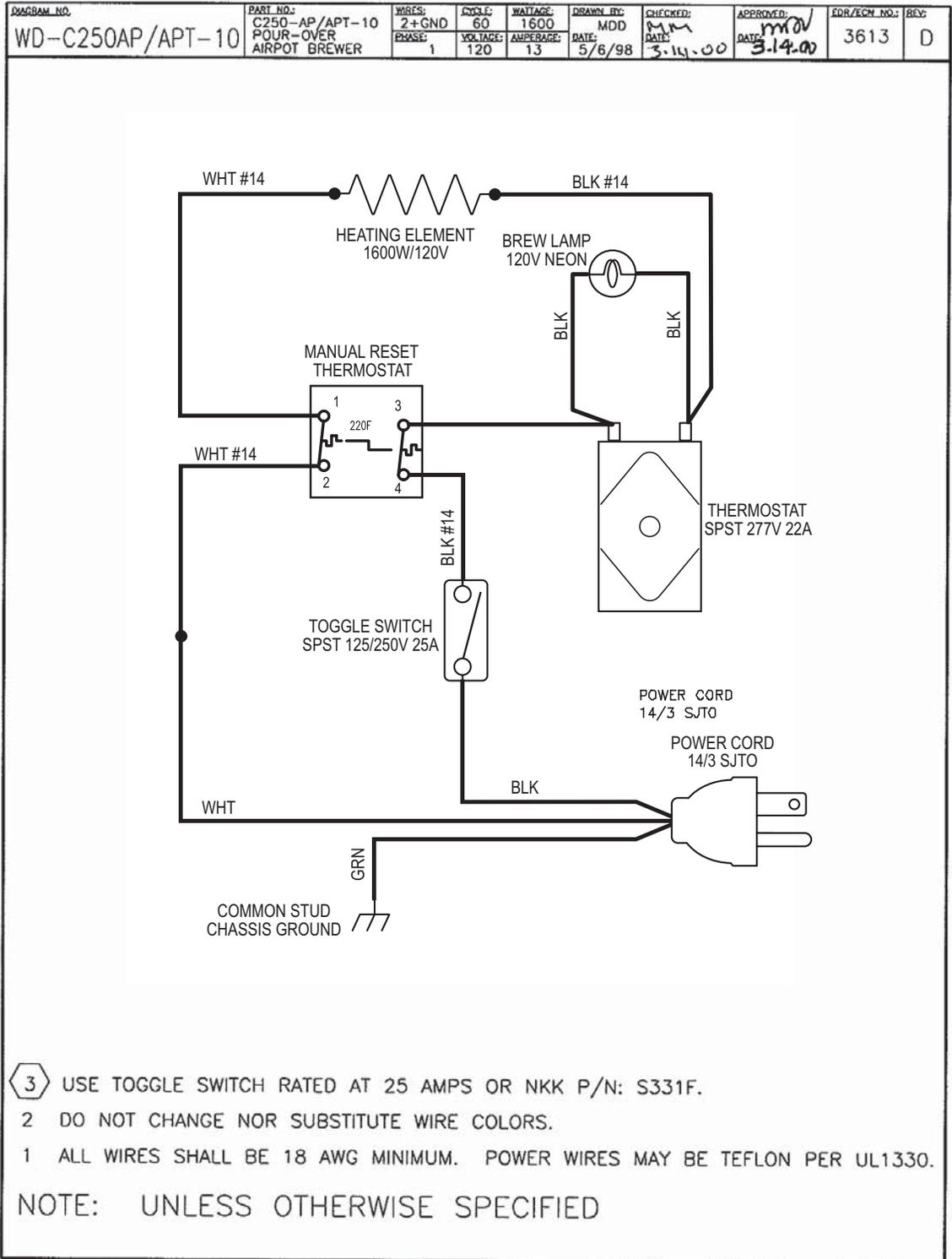
TROUBLESHOOTING, CONTINUED

PROBLEM Poor spray pattern over coffee grounds. Coffee is not evenly saturated.

SOLUTION

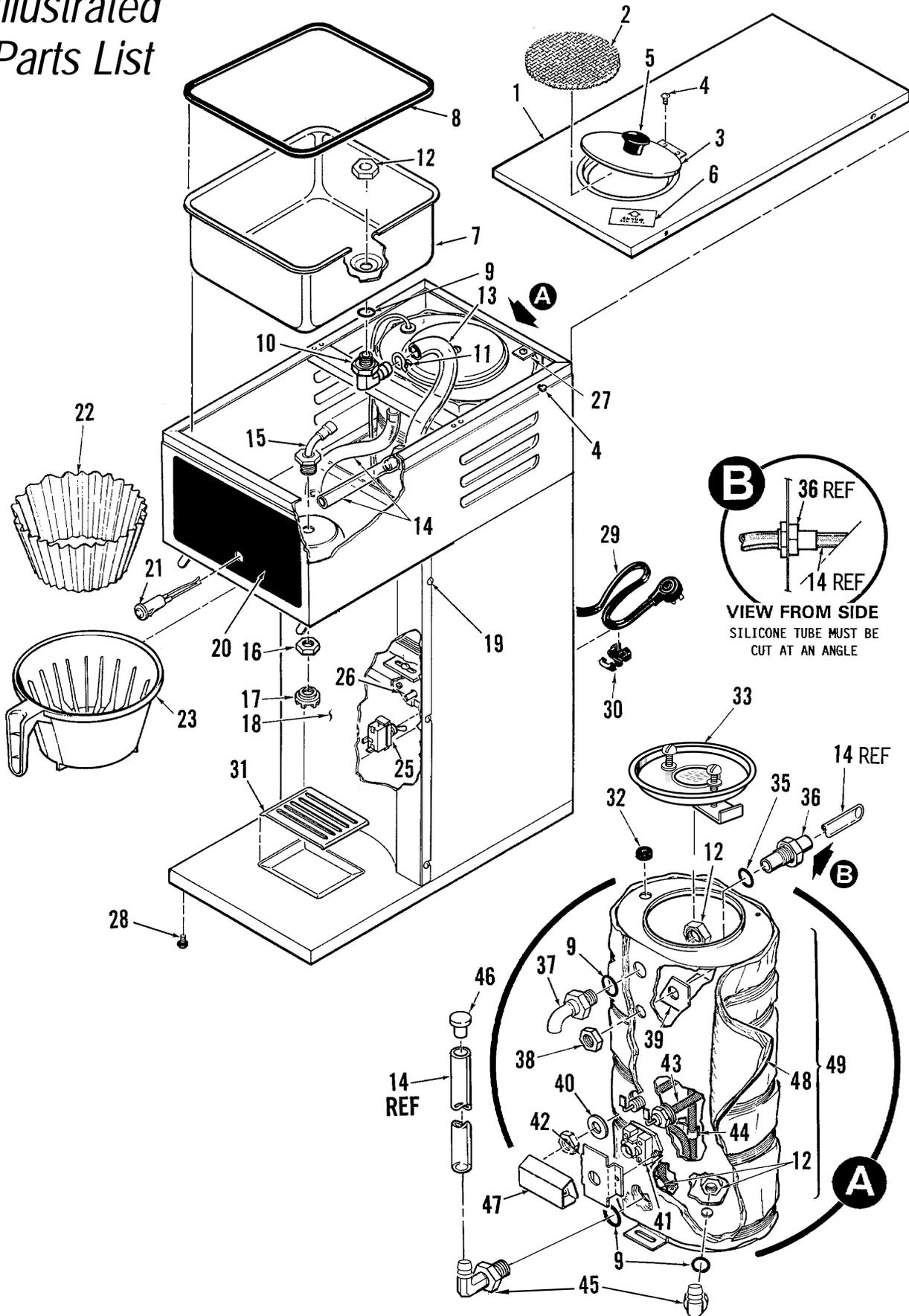
1. Check all the silicone water tubing for lime buildup and clean out.
2. Sometimes the silicone tubing gets kinked. Make sure the tubes are not too long where they might fold; or too short where they could be pinched off when the unit is closed up.
3. Look for an obstruction in the sprayhead fitting and clean if necessary.
4. The plastic sprayhead might be deformed or in need of cleaning. The tiny point in the center of the sprayhead is worn or is just slightly off-center. Replace the plastic sprayhead.

WIRING DIAGRAM



C250AP

Illustrated Parts List



C250AP

Parts List

| INDEX N° | PART N° | DESCRIPTION |
|-------------|------------|---|
| 1 | WC-5469 | COVER, TOP |
| 2 | WC-5403 | SCREEN POUR HOLE |
| 3 | WC-5489 | LID POUR HOLE WITH KNOB |
| 4 | WC-4439 | SCREW, 6-32 x ¼ PHIL PAN HEAD S/S |
| 5 | WC-3238 | KNOB, POUR-OVER LID |
| 6 | WC-3801 | LABEL, <i>CAUTION WATER ONLY</i> |
| 7 | WC-54004 | POUR PAN C250AP |
| 8 | WC-4302 | GASKET, SILICONE POUR PAN |
| 9 | WC-4320 | O' RING, ½" I.D. |
| 10 | WC-2978 | FITTING, POUR PAN |
| 11 | WC-4352 | CLAMP, HOSE |
| 12 | WC-4211 | NUT, ¾ JAM NPSM NICKEL PLATE |
| 13 | WC-5350 | TUBING, ½" I.D., SILICONE |
| 14 | WC-5310 | TUBING, 5/16" I.D. SILICONE |
| 15 | WC-2977 | FITTING ASSY, SPRAYHEAD |
| 16 | WC-4213 | NUT, LOCK, 5/8" BRASS |
| 17 | WC-2906 | SPRAYHEAD, BLUE .178 DIA |
| 18 | WC-6217 | COVER, FRONT C250 |
| 19 | WC-4525 | SCREW, 8-32 x ¼ PHILLIPS TRUSS |
| 20 | WC-39006 | LABEL, FRONT PANEL |
| 21 | WC- 202 | LIGHT, BREW 115V |
| 22 | CR-10 | FILTERS, PAPER COFFEE #506 1000/PKG |
| 23 | WC-3621 | BREW CONE, UNIVERSAL 7 1/8" BLK PLASTIC |
| 25 | WC- 102 | POWER SWITCH, 25A 120V |
| 26 | WC- 515R | THERMOSTAT REPLACE KIT 202° |
| 27 | WC-6301 | BRACKET, UPPER TANK SUPPORT |
| 28 | WC-3502 | LEG, SCREW BUMPER, 8-32 STUD |
| 29 | WC-1200 | POWERCORD, 6' |
| 30 | WC-1408 | CORD GRIP 7/8" O.D. |
| 31 | WC-6221 | GRID, DRIP TRAY AIRPOT |
| 32 | WC-4314 | INSERT, SILICONE GROMET |
| 33 | WC-37008 | KIT, TANK LID RETROFIT |
| 35 | WC-4373 | O' RING, ¾" I.D. |
| 36 | WC-2959 | FITTING, SYPHON TUBE |
| 37 | WC-2948 | FITTING ASSY, TANK OVERFLOW |
| 38 | WC-4243 | NUT, LOCK, ¾ -16 BRASS |
| 39 | WC-6210 | SHIELD, BUBBLE |
| 40 | WC-4306 | WASHER, 9/16" SILICONE |
| 41 | WC- 522 | THERMOSTAT, HI LIMIT HEATER CONTROL |
| 42 | WC-4381 | GUARD, SHOCK RESET THERMOSTAT |
| 43 | WC- 904-04 | ELEMENT, HEATING 1600W, 115V |
| 44 | WC-5409 | CLIP, HEATING ELEMENT CAPILLARY |
| 45 | WC-29009 | FITTING, INLET |
| 46 | WC-4398 | PLUG, DRAIN, FDA TEFLON |
| 47 | WC-4394 | GUARD, SHOCK HEATING ELEMENT |
| 48 | WC-3686 | INSULATION, WRAP GEM-120A/120P |
| 49 | WC-5468 | TANK, ASSEMBLY COMPLETE |

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 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.*



WILBUR CURTIS CO., INC.

6913 Acco St., Montebello, CA 90640 ♦ Web Site: www.wilburcurtis.com ♦ Customer Service Tel: 800/421-6150

♦ Technical Service Tel: 800/995-0417 ♦ E-Mail: techsupport@wilburcurtis.com