





WILBUR CURTIS COMPANY, INC.


Service Manual – TLP Brewer


MODELS INCLUDED


- TLP

 **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.

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

 **IMPORTANT:** This equipment is to be installed to comply with the applicable federal, state, or local plumbing and electrical codes having jurisdiction.

 **WARNING:** To avoid scalding, do NOT remove brew cone while brew indicator light is flashing.

 **IMPORTANT:** The brewcycle is adjusted at the factory to fill a standard 2.5 liter airpot with 2.2 liters of brewed coffee. The duration of the brewcycle is set from 3 to 4 minutes.



WILBUR CURTIS COMPANY
Montebello, CA 90640
ISO 9001 REGISTERED

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/Warnings – from the factory



Sanitation Requirements

SYSTEM REQUIREMENTS

- **Water Source:** 20 - 100 PSI. Must have a Minimum Flow Rate of 1/2 GPM (preferred flow rate is 1 gpm).
- **Electrical:** See attached schematic for your model.

Setup Steps

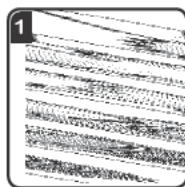
The unit should be level (left to right and front to back), located on a solid counter top. Connect a water line from the cold water supply to the brewer. (NOTE: Some type of water filtration device must be used to maintain a trouble-free operation). In areas with extremely hard water, we suggest that a sedimentary and taste & odor filter be installed. These will prolong the life of your brewing system and enhance coffee quality.



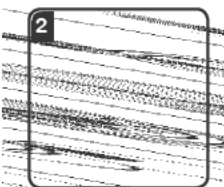
NSF International requires the following water connection:

1. A quick disconnect or additional coiled tubing (at least 2x the depth of the unit) so that the machine can be moved to clean beneath the unit.
 2. This equipment is to be installed with adequate back flow protection to comply with applicable federal, state and local codes.
 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 a minimum of 1/2 GPM.
 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 Systems there is no danger of element burnout caused by an empty tank.
 4. Turn on the control panel by pressing the ON/OFF button.
 5. The heating tank will require 20 to 30 minutes to reach operating temperature (200°F). The READY-TO-BREW light will come on.
 6. Prior to brewing, dispense 12 ounces of hot water through the hot water faucet.
 7. Run brew cycle of at least 16 ounces to purge the water line of any air trapped in the lines after filling.

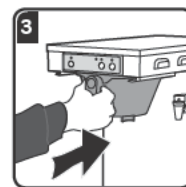
BREWING COFFEE



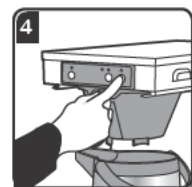
1. Place airpot in position, under the sprayhead. Place a new filter in the brewcone.



2. Pour ground coffee into the brewbasket.



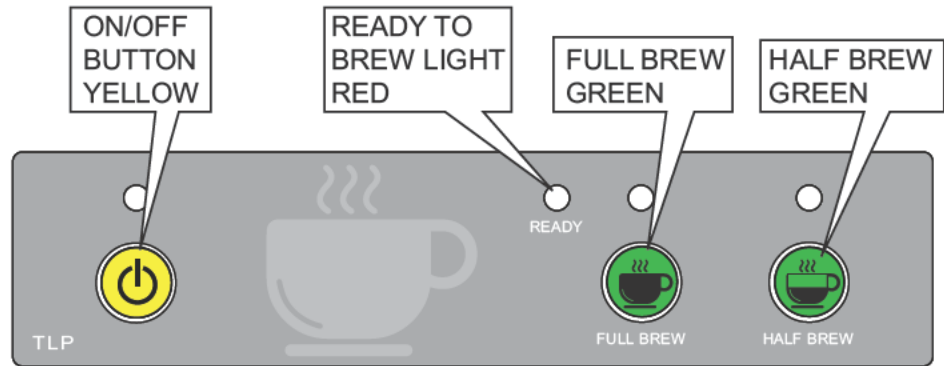
3. Slide the brewcone into position on brew rails.



4. Wait until READY-TO-BREW light appears, then press the BREW button. The indicator light above the selected brew button will flash during the brewcycle.

STEPS TO PROGRAMMING

Your Curtis TLP system is factory pre-set for optimum performance. generally, there will not be a need to change programming.



CAUTION: These steps involve working with hot water. Avoid against splashing and spilling.

Changing the TLP Program

The TLP features a dynamic memory. In the event of a power loss, it will remember ALL program settings.

Brew Temperature – Factory Pre-Set to 200°F

Function to set brew temperature, 170° to 206°F. Brew temperature will be indicated by READY-TO-BREW light blinking.






ENTERING THE PROGRAM MODE #1


For ALL functions you must first enter the programming mode.

- Turn OFF the power from the Control Panel by pressing  .
- Press and HOLD  and press and RELEASE  .
- Continue HOLDING until  starts blinking; RELEASE.

CONFIRM/RESET BREW TEMPERATURE - Factory Preset to 200°F

ENTER THE PROGRAMMING MODE #1:

- Press  for two seconds, then RELEASE.
-  will start blinking. Each blink equals 2° F, starting at 170° (max. temp. 206° F or 19 blinks).
- To change Temperature, press and HOLD  .
-  will start QUICK flashing. Each QUICK flash equals 2° F. After reaching 206°, temperature starts over at 170°.
- RELEASE  when the desired temperature is reached (new temp. will now be displayed).

To set and exit, press  .

Temperature Table

N° of Blinks	Temp.	N° of Blinks	Temp.
1	170° F	11	190° F
2	172° F	12	192° F
3	174° F	13	194° F
4	176° F	14	196° F
5	178° F	15	198° F
6	180° F	16	200° F
7	182° F	17	202° F
8	184° F	18	204° F
9	186° F	19	206° F
10	188° F		

Brew Volume - Factory Pre-set Full Brew to 2.2 Liters

When setting the brew volume, place an empty airpot under the brewcone to determine volume level. The factory default for the Half Brew button is half the brew volume of the Full Brew button. The brew volume of the Half Brew button can be set independently (see Half Brew Volume below).





Before changing the brew volume, wait until unit reaches brew temperature (Ready to Brew light comes on), insert the brewcone into place on the brewer, then place an airpot or some kind of measuring container centered beneath the brewcone.

CHANGE FULL BREW VOLUME

ENTER THE PROGRAMMING MODE #1



(Be sure to have an empty brewcone & airpot in position).

- Press and HOLD  until hot water starts running from sprayhead; then RELEASE.
- When desired volume is reached, press  again to stop flow and set brew volume.

HALF BREW VOLUME

ENTER THE PROGRAMMING MODE #1

Have an empty brewcone & airpot in position under the sprayhead.

- Press and HOLD  until hot water starts running from sprayhead; then RELEASE.
- When desired volume is reached, press  again to stop flow and set brew volume.


BREW CYCLE COUNTER

ENTER THE PROGRAM MODE #2

- Turn OFF the power from the Control Panel by pressing .
- Press and HOLD  and press and RELEASE .
- Continue HOLDING  until  STOPS blinking; RELEASE.








TO ACCESS BREW CYCLE COUNTER

ENTER THE PROGRAMMING MODE #2:

-  will now start a pattern of LONG and SHORT blinks. This pattern identifies the number of brew cycles. SHORT blinks indicate the brew number from one [1] to nine [9]. LONG blinks separate the 1's, 10's, 1,000's and 10,000's.

PULSE BREW




ENTER THE PROGRAM MODE #3

- Turn OFF the power from the Control Panel by pressing .
- Press and HOLD  and press and RELEASE .
- Continue HOLDING  until  STOPS blinking and remains on, then RELEASE .
-  will now blink a pattern of flashes from one to three.

CHANGING THE PULSE BREW FEATURE




To change:

press and hold the full brew button until the "ready-to-brew" light shows one quick flash. Press power button on the switch panel to set the desired pulse brew setting and exit programming mode.

- Press and HOLD  until  shows one quick flash, then RELEASE. You have now added a blink to your blinking light pattern.
- By pressing and holding  you add another blink.

PULSE OPTIONS:

OFF = One Long Flash

-  → #1 = One Long Flash + 1 Short Flash
-  → #2 = One Long Flash + 2 Short Flash
-  → #3 = One Long Flash + 3 Short Flash

ERROR CODES

ADS technology features a state-of-the-art error code system. This is designed to quickly advise you of any problems the system may experience expediting service or repair. Occasionally, an error reported may be a problem with the water supply or electrical power, NOT directly associated with a fault of the Curtis system itself. An example of this includes a clogged water filter — indicated by a water level error code.






Error Codes are reset by turning the rear toggle switch to Standby for a minimum of 10 seconds, then returning the switch to ON. Any service required for your Curtis system must be performed by a qualified service technician.

Error Codes are indicated by  blinking.

 = Long Flash  = Short Flash

The code pattern is as follows:

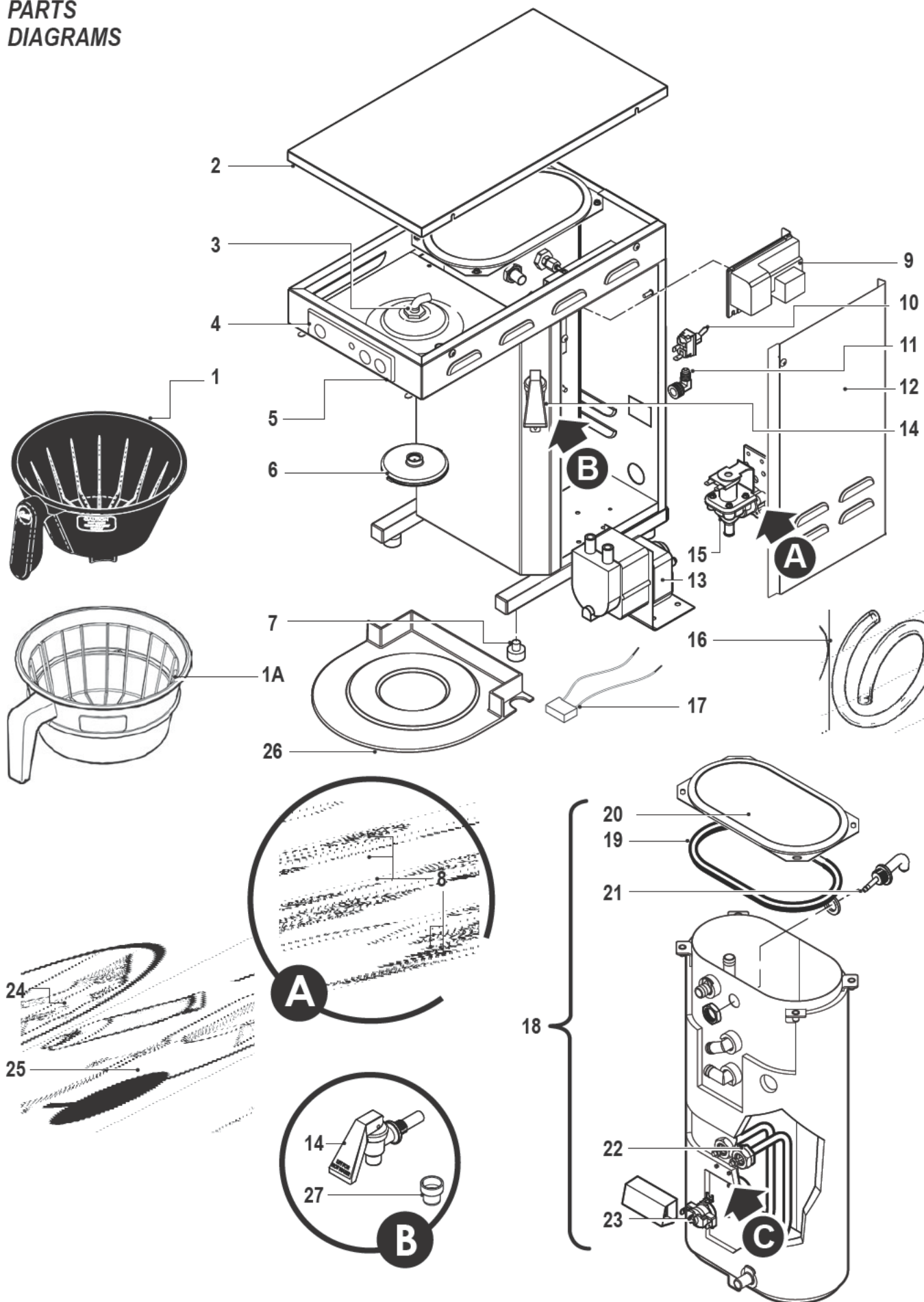
 → WATER LEVEL PROBLEM
 → TEMPERATURE PROBLEM
 → COMMUNICATION ERROR

PARTS LIST

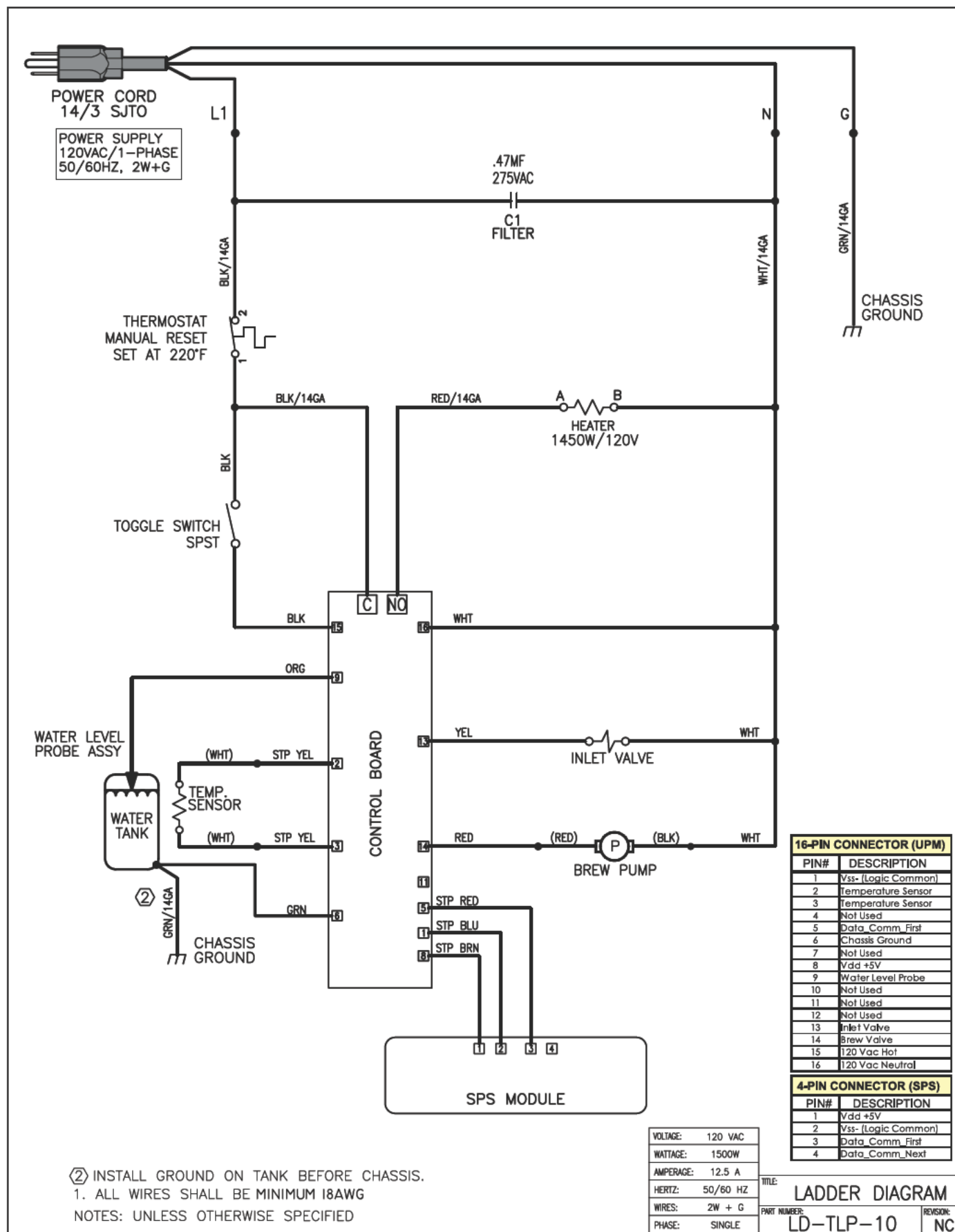
ITEM N°	PART N°	DESCRIPTION
1	WC-3621-101	CONE, UNIVERSAL BREW 7 1/8 BLK PLASTIC
1A	WC-3316	BREWCONE W/BASKET, S/S STD 7 1/8
2	WC-61336	COVER, TOP TLP BLACK TEXTURE
2A	WC-61355	COVER, TOP SS TLP
3	WC-2962	FITTING, SPRAYHEAD ASSY
4	WC-39662	* LABEL, CONTROL PANEL TLP
5	WC- 717	* CONTROL BOARD, SMART CARD SWITCH PANEL
6	WC-29030	* SPRAYHEAD ASSY, ADVANCED FLOW ORANGE
7	WC-3503	* LEG, SCREW BUMPER 3/8" - 16 STUD
8	WC-3765L	* KIT, INLET VALVE REPAIR (FOR WC-826, WC-825)
9	WC- 715	* CONTROL MODULE, TLP 120V 16PIN
10	WC- 102	* SWITCH, TOGGLE SPST 25A 250VAC RESISTIVE
11	WC-2401	* ELBOW, 3/8 NPT X 1/4 FLRE PLTD
12	WC-61335	COVER, SIDE TLP BLACK TEXTURE
12A	WC-61335-101	COVER, SIDE LEFT TLP
12B	WC-61354	COVER, SIDE SS TLP
13	WC-1040	* PUMP, WATER CENTRIFUGAL 120V 60 Hz
14	WC-1816-101	FAUCET, HOT WATER ULTEM PLASTIC W/TEXT
15	WC- 826L	* VALVE INLET 1.15 GPM 120V 10W
16	WC-5310	* TUBE, 5/16 ID x 1/8W SILICONE
17	WC-8591	* CAPACITOR, X2
18	WC-54314	TANK, ASSY 120V TLP12/20 1450W
18A	WC-54314-101	TANK, ASSY 120V TLP12/20 1450W FOR TLP 300 LEFT
19	WC-43062	* GASKET, TANK
20	WC-5853-102	COVER, TOP HEATING TANK GEN USE
21	WC-37278	* KIT, LIQUID LEVEL PROBE GT
22	WC- 904-04	* ELEMENT, HEATING 1.6KW 120V W/ JAM NUT & SILICONE WASHERS
23	WC- 523	* THERMOSTAT, MANUAL RESET 120/220 VAC 25A 220 DEG F MAX
24	WC-5227	* COMPOUND, SILICONE 5 OZ TUBE
25	WC-1438-101	* SENSOR, HEATING TANK
26	WC-66050	DRIP TRAY, TLP
27	WC-1806	* SEAT CUP, SILICONE

* Suggested Parts List

PARTS DIAGRAMS



ELECTRICAL SCHEMATIC



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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 90640-5403 USA

Phone: 800/421-6150 ♦ Fax: 323-837-2410

♦ Technical Support Phone: 800/995-0417 (M-F 5:30A - 4:00P PST) ♦ E-Mail: techsupport@wilburcurtis.com

♦ Web Site: www.wilburcurtis.com

FOR THE LATEST SPECIFICATION INFORMATION GO TO WWW.WILBURCURTIS.COM