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Installation Instructions, Service & Warranty Information



Revised: Aug 2003

MODELS INCLUDED

- TLP10
- TLP15
- TLP20
- TLP30*
- TLP61

* 30 is Not UL Listed



TLP DIGITAL AIRPOT BREWER



ISO 9001 REGISTERED

WILBUR CURTIS COMPANY • Montebello, CA 90640

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TABLE OF CONTENTS

Important Safeguards / Conventions	2
Contents & Unpacking	3
Rough-in Drawing	3
Quick Start & Setup	4
Brewing Instructions	5
Programming	6
Brew Temperature	6
Brew Volume	7
Brew Cycle Counter	7
Low Temperature Brew "Delta" Lockout	8
Trouble Shooting	9
High Temp Reset Thermostat	10
Care & Maintenance	10
Electrical Schematics	
TLP10/12	11
TLP15/17	12
TLP20/22	13
TLP30/32	14
TLP61/63	15
Illustrated Parts Diagram	16 – 17
Illustrated Parts List	18
Warranty	19

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 or side panel. There are no user serviceable parts located inside. Repair should be done only by authorized service personnel.*
- *Keep hands and other items away from hot parts of the appliance during operation.*
- *Never clean with scouring powders or harsh implements (see Care & Maintenance, page 10).*

CONVENTIONS



WARNINGS - TO HELP AVOID PERSONAL INJURY



IMPORTANT NOTES/CAUTIONS - FROM THE FACTORY



SANITATION REQUIREMENTS

CONTENTS AND UNPACKING

SHIPPING CARTON CONTENTS & UNPACKING

UNPACKING

All products manufactured by the Wilbur Curtis Company are thoroughly inspected at the factory and are warranted to be free of all defects and faulty workmanship. These brewers are packaged for maximum protection during shipping.

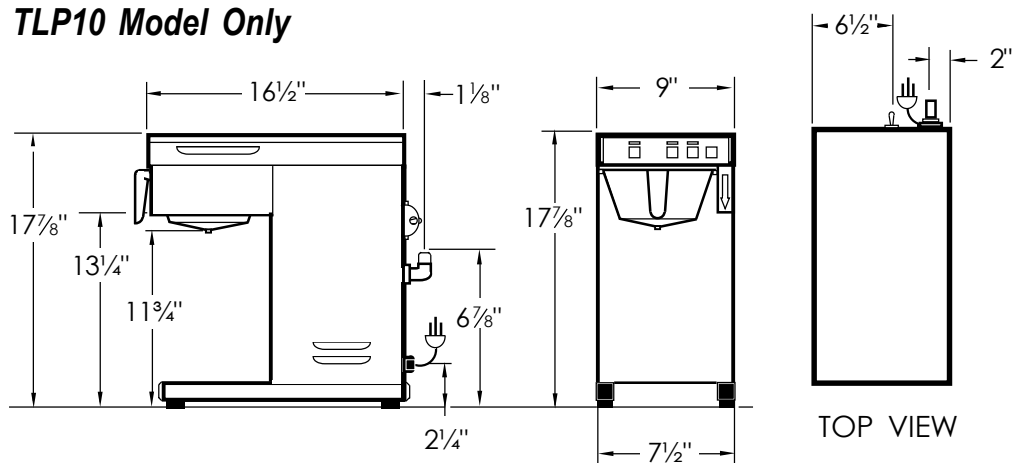
Make sure the shipping carton is not damaged or punctured. Unpack the carton, carefully inspecting the contents for any damage that may have occurred in transit.

STANDARD ITEMS

Qty	Item	Part N ^o
1	Coffee Brewer, ThermoLogic Low Profile TLP	
1	Brew Cone	WC-3621
1	Elbow, 1/4 x 3/8 Flare	WC-2401
25	Paper Filters	CR-10
1	Service Manual, TLP	F-3206

ROUGH-IN DRAWINGS

TLP10 Model Only



BREW SETUP	HALF BREW, 1.1 LITER	FULL BREW, 2.2 LITERS
CORD & PLUG	6 Ft./NEMA 5-15P (120V Units Only)	
WATER HOOK-UP ELBOW, FLARE 1/4 x 3/8 FITTING, WATER CONNECTION		

ELECTRICAL

TLP Model N ^o	Volts	Watts	Amps	Hertz	Wires
TLP10	120V	1700W	14A	50/60 Hz	2W+G
TLP20	120V	1500W	12.5A	50/60 Hz	2W+G
TLP15	220V	3600W	16.5A	50/60 Hz	3W+G
TLP30	220V	3600W	16.5A	50/60 Hz	2W+G
TLP61	120/220V	1700/3600W	14/16.5A	50/60 Hz	2W/3W+G

QUICK START & SET-UP

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

Following are the Factory Settings for the TLP Coffee Brewer:

- **Brew Temperature = 200°F**
- **Brew Volume = Set to dispensing vessel requirements (2.2 Liters)**

Generally there will never be a reason to change your ADS programming. 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 - 100 PSI (Minimum Flow Rate of 1 GPM)



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

• **Electrical**

See attached schematic for your model.



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

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. These will prolong the life of your brewing system and enhance coffee quality.

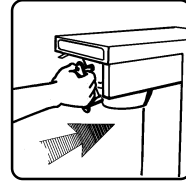
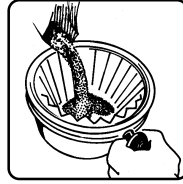


The National Sanitation Foundation requires the following water connection:

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. (Check local plumbing codes)

1. A ¼ flare water inlet fitting 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. 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 elements will energize automatically. With ADS 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) as indicated by the READY-TO-BREW indicator.
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 that may be trapped in the lines after filling.

BREWING INSTRUCTIONS



1. Brewer should be ON (Confirm rear toggle switch is on, then press ON/OFF button).
2. Place an empty airpot in position, under the sprayhead.
3. Place a filter and ground coffee in the brewcone. Slide the brewcone into position on brew rails.
4. Wait until the READY-TO-BREW light comes on and then press the desired BREW button. The indicator light above the selected brew will begin flashing when the brewcycle starts.



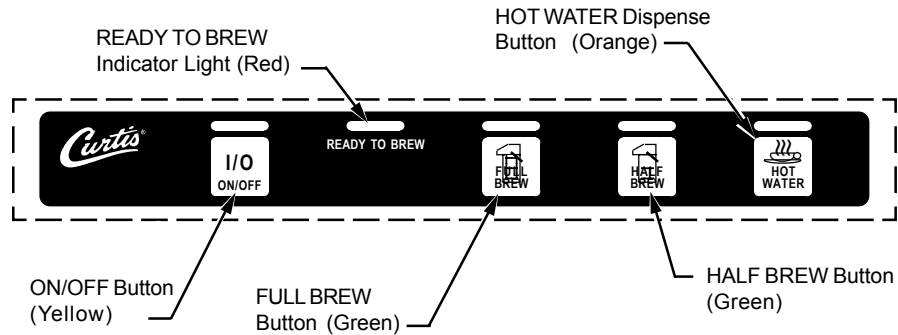
WARNING: To avoid scalding, do NOT remove brew cone while brew indicator light is flashing.



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 between 2 minutes, 40 seconds and 3 minutes.

STEPS TO PROGRAMMING

Your Curtis ADS System is Factory Pre-Set for Optimum Performance. Generally, There Will Not be a Need to Change Programming.



WARNING: These steps will involve working with hot water. Scalding may occur if care is not taken against spilling.

Changing the ADS System Program

Your ADS System 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

This programming function allows you to set brew temperature from 170° to 204°F. Brew temperature will be indicated by the READY TO BREW light blinking (see chart). Simply follow the steps indicated.







ENTERING THE PROGRAM MODE

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 .
- MODE #1**
- Continue HOLDING  until  starts blinking; RELEASE.

CONFIRM/RESET BREW TEMPERATURE - Factory Preset to 200°

ENTER THE PROGRAMMING MODE #1:


- Press  for two seconds, then RELEASE.
-  will start blinking. Each blink equals 2° F, starting at 170° (max. temp. 204° F or 18 blinks).
- To change Temperature, press and HOLD .
-  will start QUICK flashing. Each QUICK flash equals 2° F. After reaching 204°, temperature starts over at 170°.
- RELEASE  when the desired temperature is reached. The newly set temperature will now be displayed. To set and exit, press .

Temperature Table

No. of Blinks	Temp.	No. of Blinks	Temp.
1	170°F	10	188°F
2	172°F	11	190°F
3	174°F	12	192°F
4	176°F	13	194°F
5	178°F	14	196°F
6	180°F	15	198°F
7	182°F	16	200°F*
8	184°F	17	202°F
9	186°F	18	204°F

* Factory Setting

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

The Half Brew button  is always half of the brewtime of the setting of the Full Brew button. You cannot program the Half Brew.




Change the brew volume of your ADS System by following these steps.



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 a measuring container centered beneath the brewcone.

ENTER THE PROGRAM MODE

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 .

MODE #1

- Continue HOLDING  until  starts blinking; RELEASE.

CHANGE BREW VOLUME - Factory Preset to Brewer Requirements

ENTER THE PROGRAMMING MODE #1: (CAUTION: Be sure to have brewcone and vessel in position).

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






(When programming the brewer for volume, it is important to realize that after you program the unit, it must reach full brew temperature before it will allow you to brew.)

Brew Cycle Counter

This function allows you to see exactly how many brew cycles occurred on the system. This feature is ideal for preventive maintenance programs (i.e., changing water filters, cleaning the sprayhead, etc.) and determining profitability. To view the number of brew cycles on the unit, follow these steps:

ENTER THE PROGRAM MODE

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 .

MODE #2

- 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.

BREW COUNT EXAMPLE

Sets	Pattern	Factor	Total
1st		1's	4
2nd		10's	20
3rd		100's	300
4th		1,000's	1,000
5th		10,000's	0

Total Brews ➡ 01,324

Low Temperature Brew Lockout (Delta) - Factory Preset to Delta 1

DELTA 1 (this is factory setting) allows you to brew within 5 degrees from set temperature. This provides for consistent brew temperature and consistent water density. If Delta 1 is used, run half brew first, discard water. Program to $\frac{1}{2}$ " below collar of airpot (one small finger width).

DELTA 2 allows you to brew within 10 degrees from set temperature. If Delta 2 is used, run half brew first and discard water. Program to $\frac{3}{4}$ " below collar of airpot (between one and two small finger widths).

DELTA 3 will allow you to brew at any temperature. Back to back brewing is only possible in this mode (120V). If Delta 3 is used, run half brew first and discard water. Program to 1" below collar of airpot (two small finger widths). The brew cone must be empty without a filter. This will ensure proper operation at all brew rates.

During back to back brew cycles the water temperature in the tank will start to drop, as these brew cycles increase the water gets cooler. With cooler water in the tank the density changes and the flow rate will increase. Typically an increased flow rate may translate in to a maximum increase of 4 ounces in the airpot.

ENTERING THE PROGRAM MODE

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 .

MODE #3



- Continue HOLDING  until  stops blinking and REMAINS ON. RELEASE.
- Release   will blink a pattern of flashes from one to three.

CHANGING THE DELTA FEATURE


ENTER THE PROGRAMMING MODE #3:

- 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.

Example 1:  has two blinks and you want to remove the temperature limitation entirely, press and hold  for one more blink. Now you can brew at Delta 3.

Example 2:  has three blinks and you want to go back to Delta 1 setting. Press and HOLD  for one more blink. Now you can brew at Delta 1.

- To set and exit, press .

TROUBLE- SHOOTING GUIDE



IMPORTANT: Error codes are indicated by the red READY TO BREW light. If and Error Code occurs, the unit will shut down all functions including heating, water inlet, water delivery. ALWAYS confirm Error Code three times.

ERROR CODES

Curtis ADS Systems contain various safety features in the electronic circuitry that will shut down the functions of the unit in the event of systems failures. Error codes are signalled by the red READY-TO-BREW light blinking.



INTERPRETING THE CODES

ADS 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 indicated by  **blinking.**  = Long Flash  = Short Flash


The code pattern is as follows:

 → **WATER LEVEL PROBLEM**
 → **TEMPERATURE PROBLEM**




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.

SYMPTOM: WATER DOES NOT FLOW INTO HEATING TANK

**Water Level
ERROR CODE**



POSSIBLE CAUSE	SOLUTION
1. Water line has been turned OFF	Turn ON Water Line; confirm unit is turned on and water is flowing into heating tank.
2. Insufficient Water Supply; Water Line Pinched	Straighten Water Line; confirm unit is turned on and water is flowing into heating tank.
3. Clogged Water Filter	Replace filter; confirm unit is turned on and water is flowing into heating tank.
4. Defective Inlet Valve	Contact Factory.
5. Grounded Probe	Contact Factory.
6. Defective Control Board	Contact Factory.

SYMPTOM: WATER HEATING TANK OVERFLOWING

**Water Level
ERROR CODE**


POSSIBLE CAUSE	SOLUTION
7. Defective Water Inlet Valve	Turn power off and observe tank water level. If water continues to flow Inlet Valve must be cleaned, rebuilt or replaced.
8. Limed-Up Probe	Clean and/or replace.
9. Non-grounded or loose terminal connections at control board or tank.	The control board must be securely grounded for proper operation. Check for loose connections at the terminals.
10. Defective Control Board.	Contact Factory

SYMPTOM: WATER IN HEATING TANK DOES NOT GET HOT; WATER TEMPERATURE LOW

**Temp Sensor
ERROR CODE**


POSSIBLE CAUSE	SOLUTION
11. Defective or Loose Heat Sensor	Make sure there is a layer of silicone paste (Part No WC-5231) between the sensor and tank body. The fastening nut should be securely tightened, making a good connection. Check wire for damage.
12. Defective Heating Element	Contact factory.
13. Defective Control Board	Contact factory.



IMPORTANT: Heating function may be SHUT DOWN due to Water Level Error Code.

SYMPTOM: WATER NOT FLOWING FROM SPRAYHEAD

Water Level
ERROR CODE

POSSIBLE CAUSE	SOLUTION
14. <i>Obstructed Sprayhead</i>	<i>Remove and inspect sprayhead. Clean and reinstall.</i>
15. <i>Water level is too low in heating tank</i>	<i>Check water level in tank. If water is not flowing into tank, review steps 1 through 4.</i>
16. <i>Defective Pump</i>	<i>Contact factory.</i>
17. <i>Defective Control Board</i>	<i>Contact factory.</i>

SYMPTOM: WATER IN HEATING TANK OVERHEATING

Temp Sensor
ERROR CODE

POSSIBLE CAUSE	SOLUTION
18. <i>Temperature set too high for elevation</i>	<i>Re-program to lower temperature.</i>
19. <i>Loose or defective heat sensor</i>	<i>Contact factory.</i>
20. <i>Defective triac</i>	<i>Contact factory.</i>
21. <i>Defective control board</i>	<i>Contact factory.</i>

HIGH TEMP THERMOSTAT



WARNING: Turn off all power to unit before removing side panel to reset the thermostat.

HIGH TEMPERATURE RESET THERMOSTAT

The High Temperature Reset Thermostat (p/n WC-523) protects the unit by cutting off power in the event of an overheated condition. This may be caused by a low water level. When this occurs, the heating element may be exposed, causing an excessively HOT condition. Power will be cut off by the reset thermostat, indicated when the red reset button pops out.

When the high temperature condition has been corrected and after the temperature drops, reset the thermostat by pushing in the red button. You can find the reset thermostat, located on the heating tank.

CARE & MAINTENANCE



CAUTION: Do not use cleansers, liquid bleach, powders or any other substance containing chlorine. These products will promote corrosion and will pit stainless steel. **USE OF THESE PRODUCTS WILL VOID YOUR WARRANTY.**

PREVENTIVE MAINTENANCE OF TLP

1. Remove the sprayhead from brewer and clean it once a week; more often in heavy lime areas.
2. Inside of the heating tank may occasionally require removing of lime build-up. The frequency is determined by local water conditions.

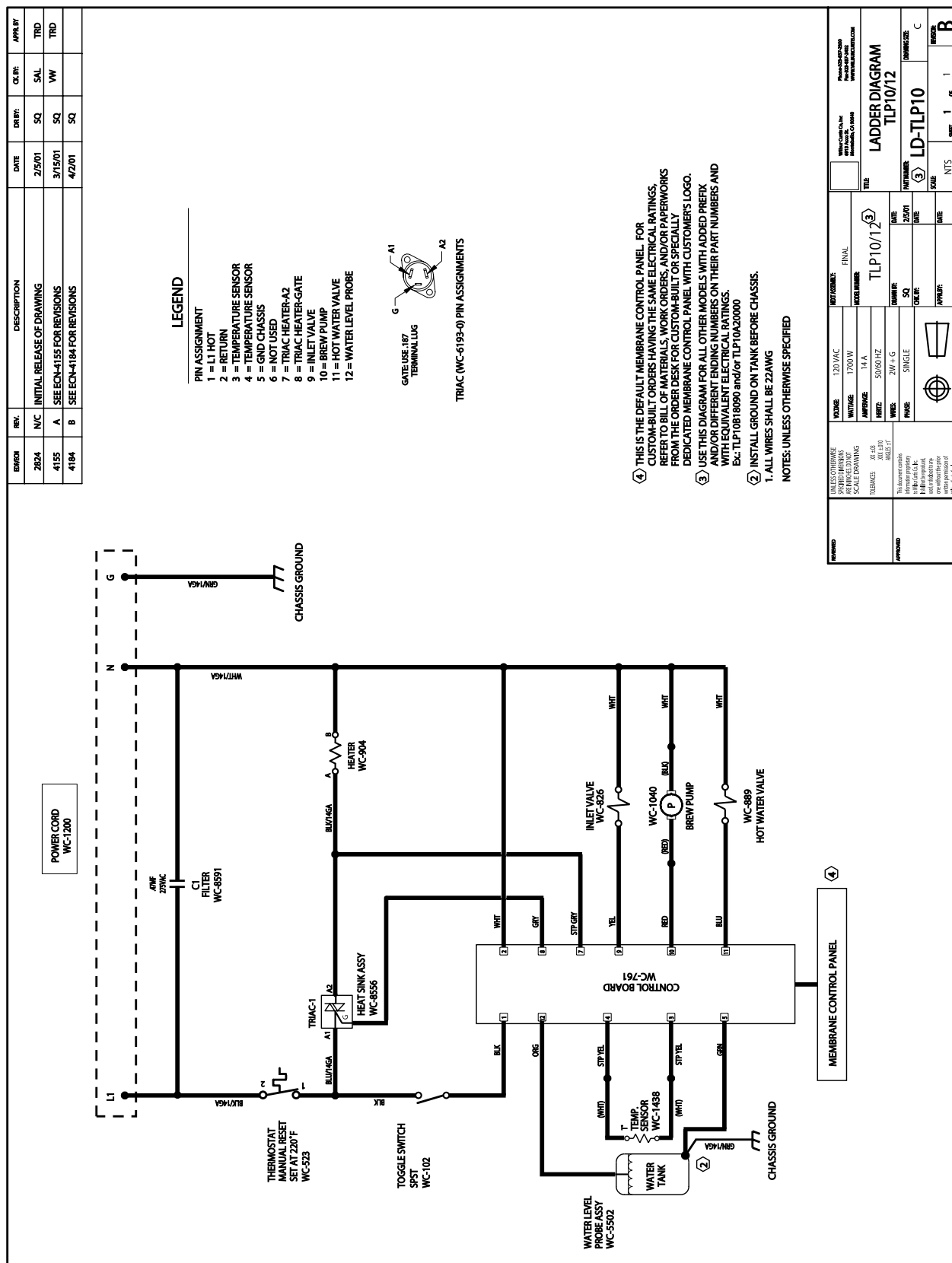
CLEANING

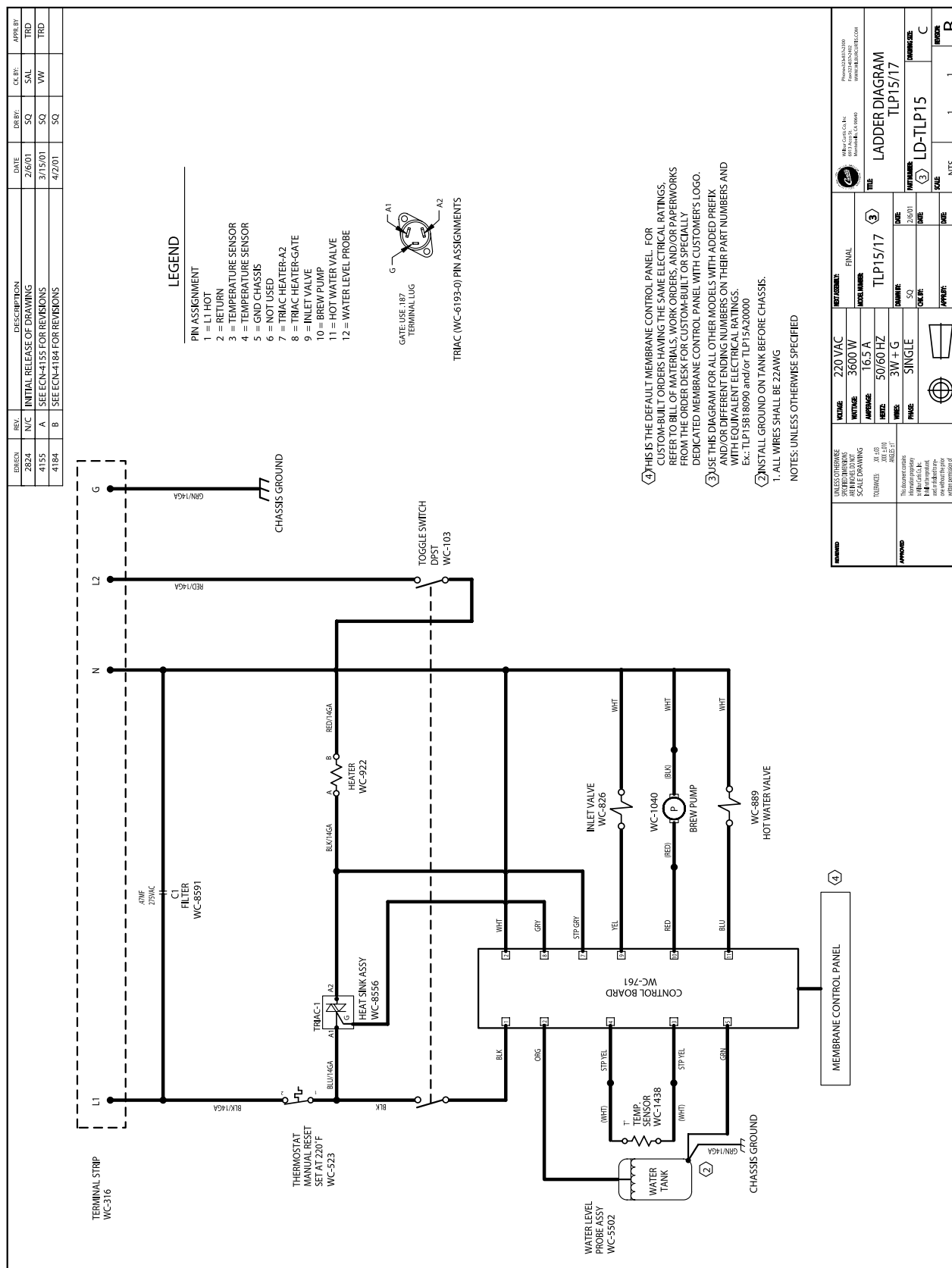
Daily cleaning of the external parts of the unit will maintain the appearance of the TLP and improve the flavor of the coffee.

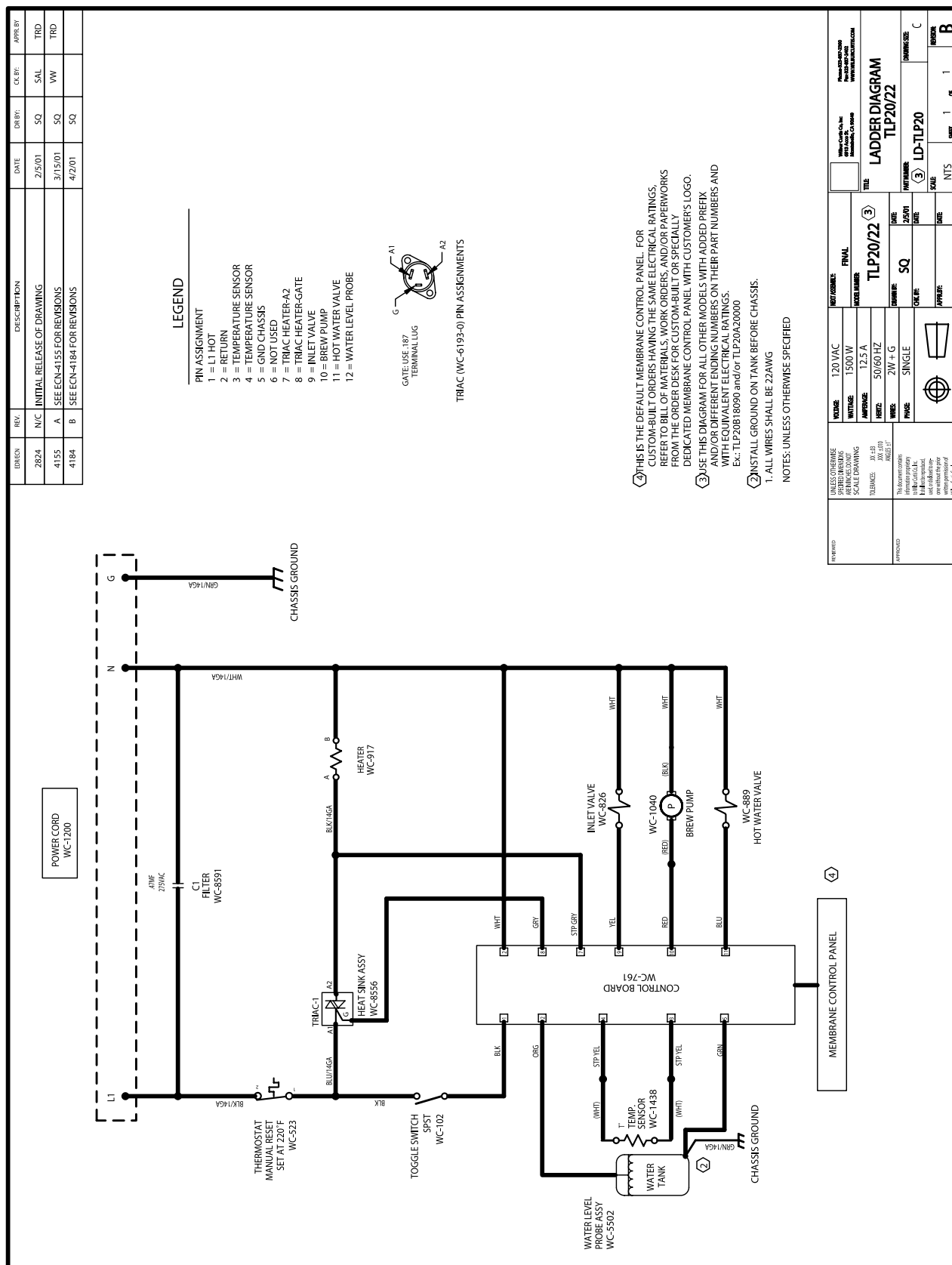
1. Wipe off any spills, dust or debris that may fall on exterior surfaces.
2. Slide out the brew cone and rinse.
3. Clean sprayhead and dome around the sprayhead. Use a non-toxic cleaner.
4. Clean the brew cone slide rails with a brush or damp cloth. Dry thoroughly.



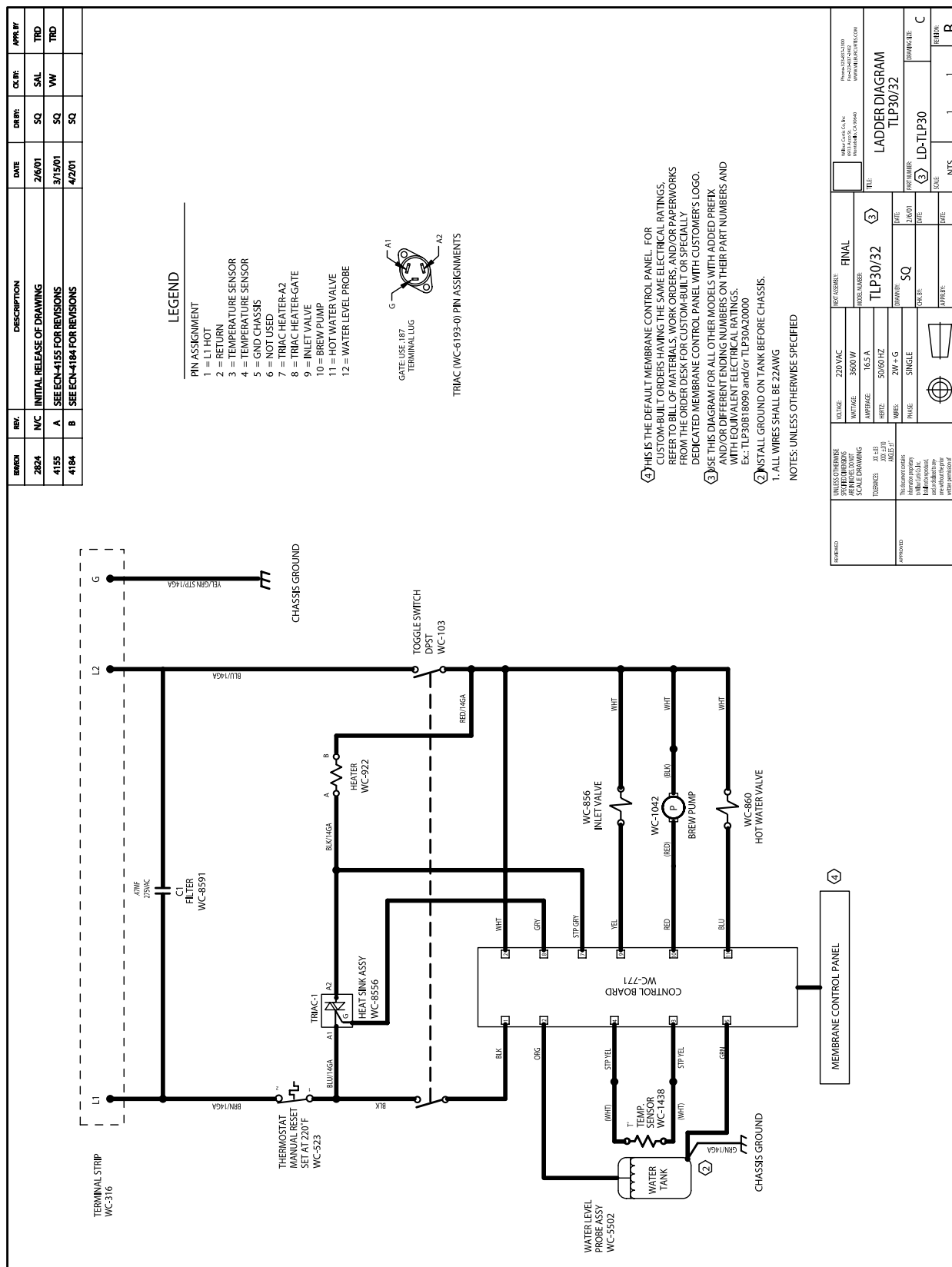
NOTE - On stainless steel units clean the outside surfaces with stainless steel polish. This is to prevent scratching of the stainless steel surfaces.

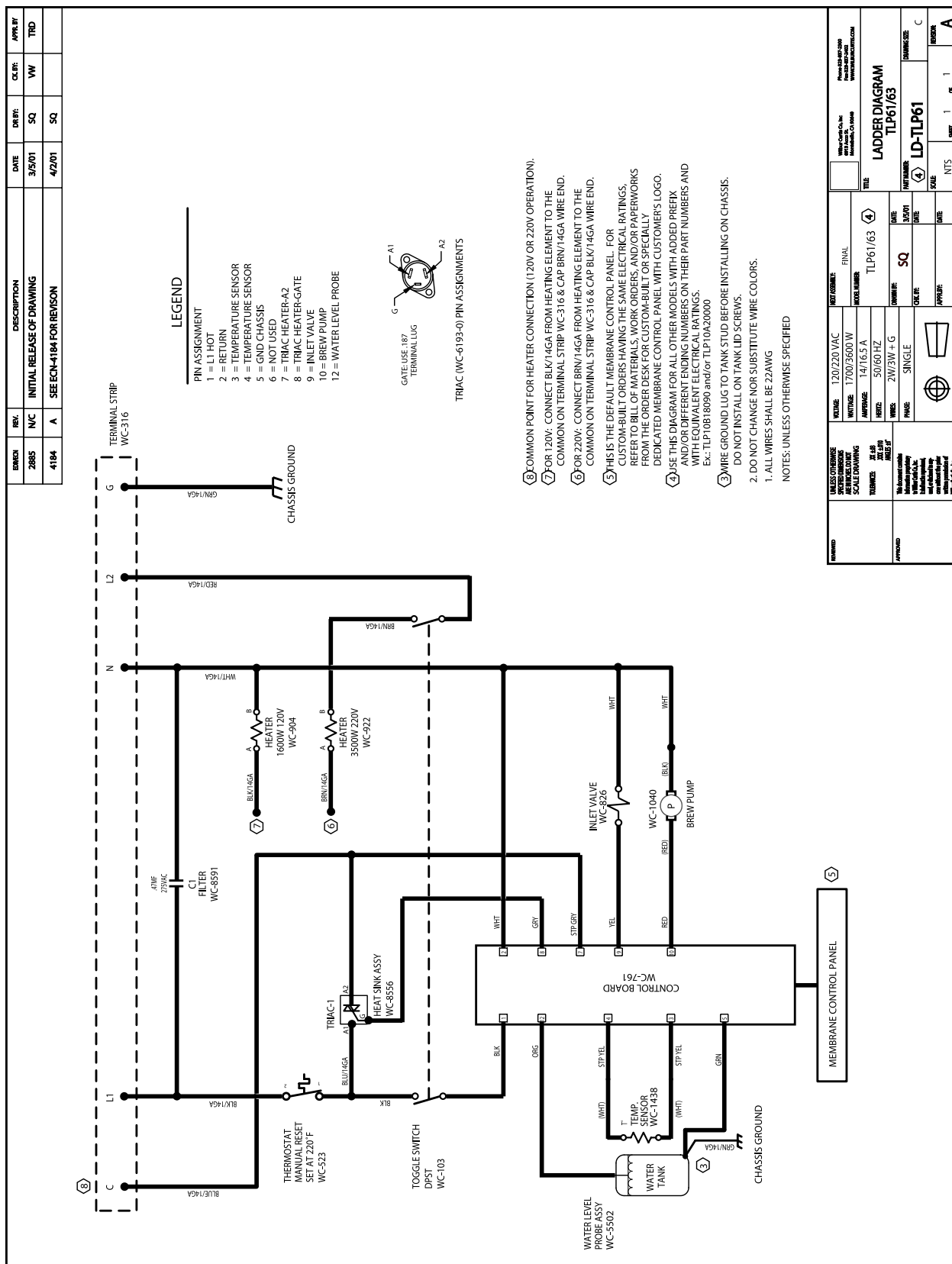




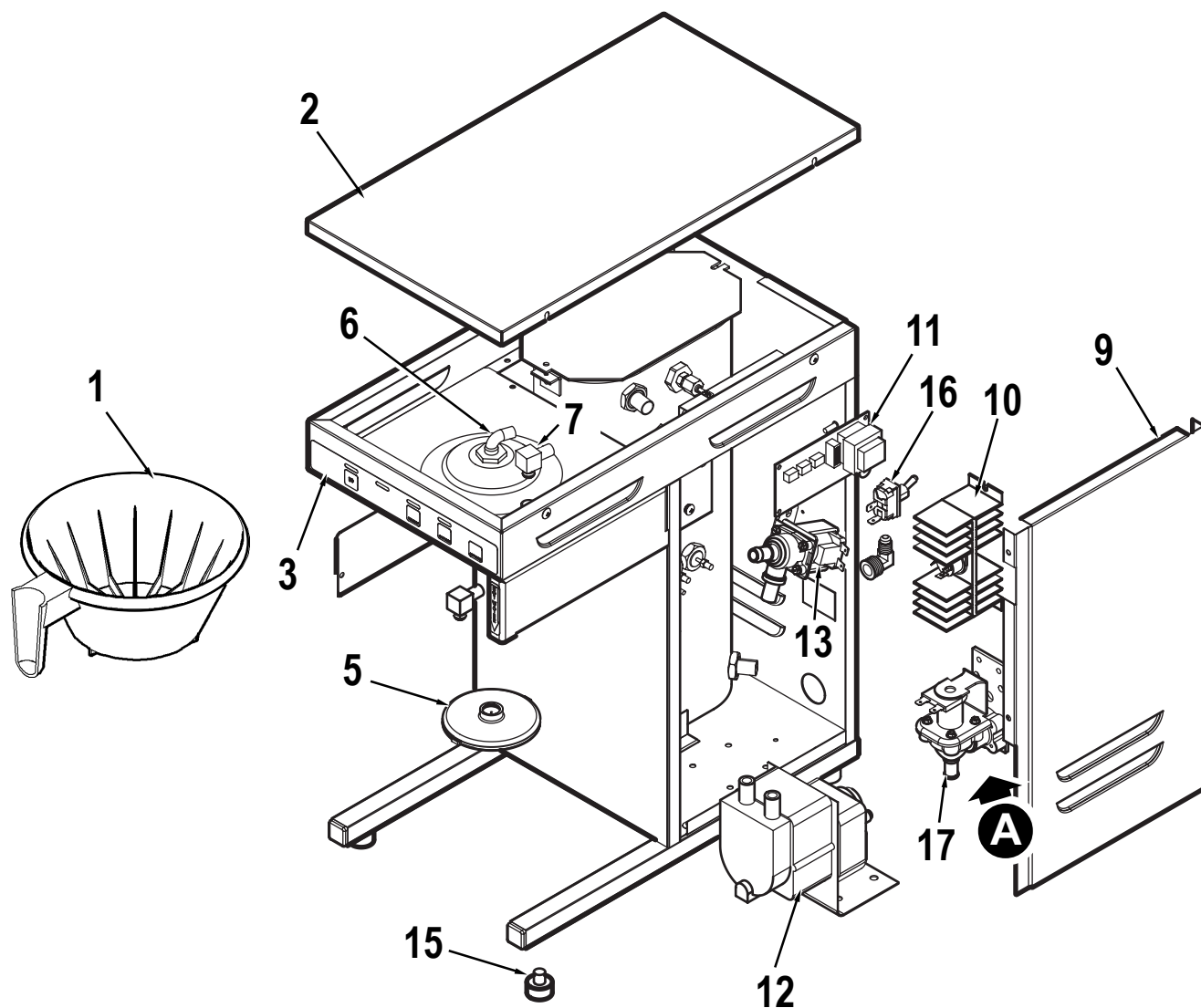


Brewer Model TLP30 & TLP32

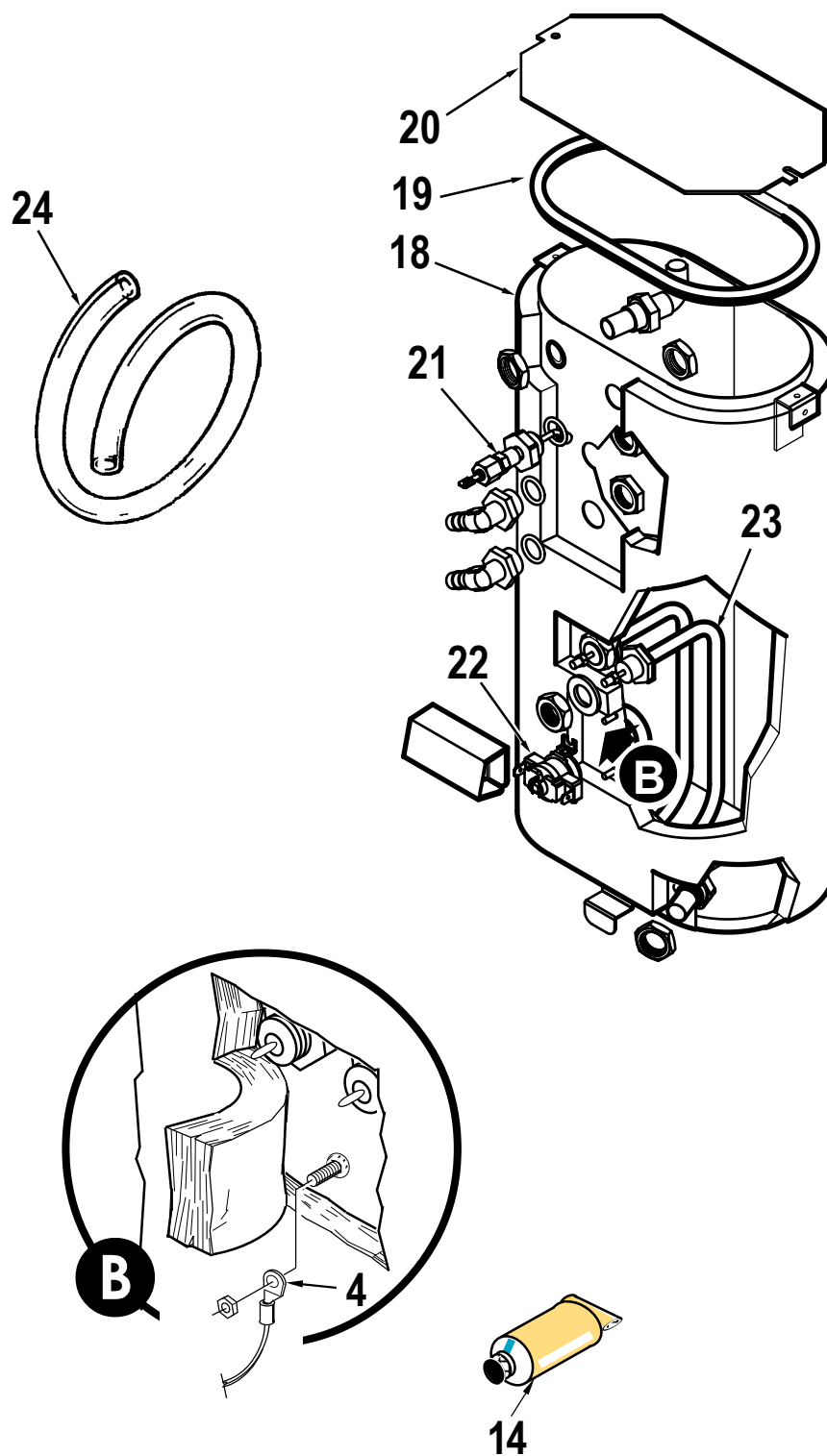




**PARTS
DIAGRAMS**



PARTS DIAGRAMS



PARTS LIST

GENERAL PARTS

ITEM Nº	PART Nº	DESCRIPTION
1	WC-3621	CONE, UNIVERSAL BREW 7 1/8 BLK PLASTIC
1A	WC-3316	BREWCONE W/BASKET, S/S STD 7 1/8
2	WC-5450	COVER, TOP
3	WC-39321	MEMBRANE, CONTROL PANEL CURTIS
4	WC-1438-101	SENSOR, TEMPERATURE TANK
5	WC-29030	SPRAYHEAD ASSY, ADVANCED FLOW ORANGE
6	WC-2962	FITTING, SPRAYHEAD ASSY
7	WC-29037	RESTRICTOR, ELBOW PP RED
8	WC-3765	KIT, INLET VALVE REPAIR (FOR WC-826, WC-856)
9	WC-58085	COVER, SIDE
10	WC-8556	HEATSINK ASSY
11	WC- 761	CONTROL BOARD, 120V TLP (Models 10, 20, 15, 61)
11A	WC- 771	CONTROL BOARD, 220V TLP (Model 30)
12	WC-1040	PUMP, WATER CENTRIFUGAL 120V 60 Hz (Models 10, 20, 15, 61)
12A	WC-1042	PUMP, WATER CENTRIFUGAL 220V 60 Hz (Model 30)
13	WC- 889	VALVE, LIQUID DISPENSING LEFT 120V 12W (Models 10, 20, 15, 61)
13A	WC- 860	VALVE, LIQUID DISPENSING LEFT 220VAC 12W (MODEL 30)
14	WC-5231	COMPOUND, SILICONE 5 OZ TUBE
15	WC-3503	LEG, SCREW BUMPER 3/8" - 16 STUD
16	WC- 102	SWITCH, TOGGLE SPST 25A 250VAC RESISTIVE (Models 10, 20)
16A	WC- 103	SWITCH, TOGGLE DPST 25A 125/250 VAC RESISTIVE (Models 15, 30, 61)
17	WC- 826	VALVE INLET 1.15 GPM 120V 10W (Models 10, 20, 15, 61)
17A	WC- 856	VALVE, INLET 1.15 GPM 240V 10W (Model 30)
18	WC-54107	TANK, COMPLETE W/1600W HEATER (Model 10)
18A	WC-54123	TANK, COMPLETE W/1450W HEATER (Model 20)
18B	WC-54124	TANK, COMPLETE W/3500W HEATER (Models 15 & 30)
18C	WC-54127	TANK, COMPLETE W/1600W AND 3500W HEATER (Model 61)
19	WC-43062	GASKET, TANK LID
20	WC-5851	COVER, TANK W/NOTCHES
21	WC-5502	PROBE ASSY, WATER LEVEL
22	WC- 523	THERMOSTAT, MANUAL RESET 120/220 VAC 25A 220 DEG F MAX
23	WC- 904	ELEMENT, HEATING 1,600W 120V (Model 10 & 61)
23A	WC- 917	ELEMENT, HEATING 1,450W 120V (Model 20)
23B	WC- 922	ELEMENT, HEATING 3,500W 220V (Models 15, 30 & 61)
24	WC-5310	TUBE, 5/16 ID x 1/8W SILICONE
25	WC-8591	CAPACITOR, X2

WARRANTY

We hereby certify that the products manufactured by the Wilbur Curtis Company, Inc., are, to the best of our knowledge, free from all defects and faulty workmanship. The following warranties and conditions are applicable:

- **90 Days for Labor and 1 Year Parts from Date of Purchase from Factory:** This warranty covers all electrical parts, fittings and tubing.
- **40 Months or 40, 000 Pounds of Coffee on a set of Grinding Burrs. (ADS Grinders)**
- **2 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.
- **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, "O" 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.



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