Operator Manual

TB Series Iced Tea Brewers & Dispensers
Models TB3, B1/3, B1/3T, SU3P

Thank you for purchasing this quality tea brewer or dispenser. For your safety and the safety of others, read all warnings and the operator’s manual before installing or using the product. Properly instruct all operators. Keep training records. For future reference, record serial number here:

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Grindmaster-Cecilware provides the industry’s BEST warranty. Visit gmcw.com for warranty terms and conditions.
Safety Information

Important Safety Information

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

For your safety and the safety of others, read all warnings and the operator’s manual before installing or using the product.

**DANGER:** This term warns the user of imminent hazard that will result in serious injury or death.

**WARNING:** This term refers to a potential hazard or unsafe practice, which could result in serious injury or death.

**CAUTION:** This term refers to a potential hazard or unsafe practice, which could result in minor or moderate injury.

**NOTICE:** This term refers to information that needs special attention or must be fully understood.

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**WARNING**

- Product must be attached to a three wire 120V 15 AMP receptacle.
- Do not deform plug or cord.
- Follow national and local electrical codes.
- Do not use near combustibles.
- Use only on a circuit load that is properly protected and capable of the rated load.
- Always unplug unit from power supply before servicing or cleaning.
- If the main power supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similar qualified person in order to avoid a hazard

FAILURE TO COMPLY RISKS PERSONAL INJURY, SHOCK HAZARD, FIRE, OR DAMAGE TO EQUIPMENT.

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**CAUTION**

Personal injury hazard. The appliance is not suitable for unsupervised use by young children, aged, or infirm persons.

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**NOTICE**

This equipment must be installed with adequate backflow protection to comply with applicable federal, state, and local codes.

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.

OPERATING ENVIRONMENTAL TEMPERATURE: Do not store unit in temperatures of 32° F or below with tank filled with water. Make sure tank is drained and lines purged to avoid damage.
## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Water</th>
<th>Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB3 Brewer with B1/3T Dispenser</td>
<td>Tea Brewer with Dispenser - 3 gallon capacity C-UL US, NSF Certification</td>
<td>1/4&quot; water line required</td>
<td>120V / 1.8 kW / 15A / 1 Ph Line cord included, NEMA plug 5-15P</td>
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<tr>
<td>B1/3 Dispenser &amp; Base</td>
<td>Dispenser - 3 gallon capacity NSF Certification</td>
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<td>n/a</td>
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<tr>
<td>B1/3T Dispenser</td>
<td>Dispenser - 3 gallon capacity NSF Certification</td>
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<tr>
<td>SU3P Dispenser &amp; Base</td>
<td>Dispenser - 3 gallon capacity NSF Certification</td>
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### ICED TEA BREWER
**Model: TB3**

#### ICED TEA DISPENSERS

**B1/3**

**B1/3T**

**SU3P**
Installation

UNPACKING AND ASSEMBLY:
The machine is shipped with a set of (4) adjustable leveling feet already mounted, (1) brew funnel, (1) brew-thru cover, and (1) water inlet fitting and (1) Operator Manual.

1. Install unit on a level surface capable of supporting the weight of the brewer and filled dispenser.
2. Level brewer by adjusting feet height.

WATER INLET CONNECTION:

NOTICE: Installation to a water filter system is highly recommended to prevent lime and scale build up in the machine.

NOTICE: In areas with extremely hard water, a water softener must be installed in order to prevent a malfunctioning of the equipment and in order not to void the warranty.

NOTICE: Do not use a saddle valve to hook up the brewer since most of them restrict the water flow causing inconsistent brew batches.

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

In addition:
• A quick disconnect water connection or enough extra coiled tubing (at least 2x the depth of the unit) so that the machine can be moved for cleaning underneath.
• An approved back flow prevention device, such as a double check valve must be installed between the machine and the water supply.
• For use of machine outside the United States of America, connection to water supply mains should comply with local codes and regulations.

The brewer must be connected to a cold water supply with an operating pressure of 20psi minimum and 90psi maximum from a 1/2" supply line.

If pressure should exceed 90psi, install a pressure regulator to reduce the operating pressure to 50psi.

Use 1/4" inch copper tubing for installation of less than 25 ft. and 3/8" copper tubing for more than 25 ft. from a 1/2" cold water supply line.

1. The tea brewer is equipped with a 1/4" flare water inlet fitting which is located in the back of the unit.
2. Install the water inlet fitting provided onto the inlet valve located in the back of the unit. Do not overtighten.

3. Connect a 1/4" copper waterline to the 1/4" flare water inlet fitting of the valve.

INITIAL SET-UP:
1. Make sure unit is disconnected from power source.
2. Remove top cover and make sure that heater switch is in the OFF position. This will prevent heater damage due to lack of water in the tank.
3. Plug the brewer into a power source. Do not use extension cord.
4. Water will flow into the tank and will stop when the tank is fully primed (4-5 minutes).

Note: This process is automatic and is controlled by the Level Control Board and the Level Control Sensor, which is plugged into the top of the Tank.

5. Flip the Heater Toggle Switch to the ON position. This activates the heater. Allow 15-20 min. heat up time.
6. Unplug the brewer and replace the top cover.
7. Re-connect the brewer and test run the unit by going through a Brew Cycle.

Note: The machine is equipped with a Low Temperature Lockout system and will not brew until the hot water tank is filled with water and has reached the proper brew temperature of 197-203°F.

8. Insert the Brew Funnel and position empty Dispenser under it.
9. Go through one Brew cycle to make sure unit is operating properly.

Note: To test the brew cycle with cold water, flip Heater Switch to OFF position. This deactivates the temperature lockout and allows speedier testing.

Operation

Tea Brewing Procedure.

⚠️ CAUTION: Operate with care. Tea Brewer dispenses HOT WATER and HOT TEA that can cause serious burns.

The Brewers are Factory pre-set to deliver the correct amount of hot water for best extraction of Hot Tea Concentrate and Cold Water Dilution. See Flavor Chart. Different tea blends might require some secondary adjustments of Hot and Cold water ratios in order to achieve their desired flavor profiles. This is easily accomplished by adjusting the Cold and Hot Brew Timers located inside the top. See instructions under Adjustments (for qualified Service Personnel only).

4 Cecilware® TB Series Iced Tea Brewer
Operation (continued)

**NOTICE:** Clean and sanitize unit before first use. See following section, Cleaning.

**Tea Brewing Instructions**
1. Start each brew cycle with a clean brew funnel and a clean empty tea dispenser.
2. Place a tea bag into the funnel and slide the funnel into the funnel rails until it stops.
3. When the Green Brew Switch Light comes on, press and release the Brew Button.

**NOTICE:** This tea brewer will not brew until the preset brew temperature (197-203° F) is reached.

4. Allow approximately 3 minutes for the tea concentrate to stop dripping from the Funnel tip.
5. Carefully remove Brew Funnel and discard the used tea bag ONLY AFTER all visible dripping has stopped.

**FLAVOR CHART**

<table>
<thead>
<tr>
<th>Type of Tea</th>
<th>Hot Water Brewing Concentrate</th>
<th>Cold Water Dilution</th>
<th>Tea Bag Size</th>
<th>Total Brew Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsweet</td>
<td>0.75 gal. (96 oz) in 3 minutes</td>
<td>2.25 gal. (288 oz)</td>
<td>3 oz</td>
<td>6.0 min</td>
</tr>
<tr>
<td>Sweet</td>
<td>0.70 gal. (90 oz) in 3 minutes</td>
<td>2.00 gal. (256 oz)</td>
<td>3 oz</td>
<td>5.5 min</td>
</tr>
</tbody>
</table>

**Cleaning**

⚠️ **CAUTION:** Burn hazard. Water used for brewing tea is very hot. Use caution when brewing, pouring, or transporting hot tea. Never attempt to move the urn without first draining or allowing contents to cool.

**NOTICE:** Do not use scouring cleaners on the urn’s surfaces. When cleaning stainless steel, only a pH neutral cleaner should be used. Use nylon or plastic brushes (not steel wire brushes) for removing food deposit.

**Cleaning and Sanitizing Instructions**

**After Each Brew:**
1. Dispose of grounds and rinse brew basket.
2. Rinse dispenser before reuse.

**Daily:** Clean and sanitize your tea brewer and dispenser at least once every 24 hours.
1. Remove and disassemble the faucet assembly by unscrewing. Carefully inspect washers. Replace any damaged parts.
2. Place brew funnel, cover, drip tray cover, and faucet components into a warm soapy wash.
3. Clean all components by brushing or scrubbing. Use a bottle brush to wash faucet and faucet mounting location. Wash inside of dispenser.
4. Wipe exterior surfaces. Use only a soft cloth and warm soapy water or stainless steel polish on the outside to avoid scratches.
5. Rinse carefully to remove soap.
6. Prepare a sanitizing solution in accordance with local health department regulations. You may also refer to the US Food and Drug Administration regulation 21 CFR 178.1010 “Sanitizing Solutions” and US Environmental Protection Agency 40 CFR 18.940 “Tolerance exemptions for active and inert ingredients for use in antimicrobial formulations (Food-contact surface sanitizing solutions)”. Follow the instructions provided with the sanitizing agent.
8. Let all sanitized parts drain and dry naturally. DO NOT WIPE THEM DRY.
9. Reassemble brewer and dispenser.
Maintenance

**WARNING:** Brewer should be unplugged from electrical outlet before any service is performed.

ADJUSTMENTS TO BE PERFORMED BY QUALIFIED SERVICE PERSONNEL ONLY.

The water flow rate coming from the hot water tank is constant/fixed at 0.75 gal/min. Increasing or decreasing the amount of hot water dispensed from tank can be used to adjust the strength of the tea.

The Longer water flows - More water - Weaker tea; Less water flows - Less water - Stronger tea.

The TB3 Brewer will complete a full cycle in approximately 5 to 10 min.

**BREW TIMER ADJUSTMENT** (mounted inside top housing)

Controls the brewing time (min.) for brewing Coffee and Hot Tea Concentrate.

The brewing time, temperature, and amount of product used in the funnel affects the drink strength. See **Flavor Chart** of Tea Flavors and Grams to be used.

Factory set at 3 min. for brewing 3 liters [3/4 gal.] of Tea Concentrate [later to be diluted with 2 1/4 gal. of cold water which makes up the total 3 gal. Iced Tea].

- To increase or decrease dispensing time and volume of hot water dispensed, turn knob in the direction shown on timer.
- To reset brewer to factory settings:
  1. Push the Brew Button (HOT TEA), and then adjust Timer to 3 min.
  2. Adjust the Dispense Valve 1/4 turn at a time, if necessary, to increase or decrease the Hot Water Flow.
  3. Push the Brew Button (ICED TEA), and then adjust the Timer to 3 to 5 min. depending on the water pressure in the main water line.

**COLD WATER DILUTION**

**DELAY TIMER ADJUSTMENT** (located inside the unit, near the water inlet valve).

Set Delay Timer knob approximately as shown in diagram. This setting corresponds to a delay time of 1.5 minutes after the hot tea begins to dispense. If the water pressure requires a different setting on the Cold Water Timer, then the Delay Timer also needs to be adjusted so that it delays the Cold Water 1.5 minutes after the hot tea begins to dispense.

**SPECIAL ORDER**

This setting corresponds to a delay time of 5 minutes after the hot tea finishes dispensing.

If the water pressure is higher than 20 PSI, decrease the setting on the Cold Water Timer and Delay Timer. If the water pressure is lower than 20 PSI, increase only the setting on the Cold Water Timer to Max.

**WARNING:** Brewer should be unplugged from electrical outlet before any service is performed.

**DUAL WATER INLET VALVE:**

The Water Inlet Valve is located on the lower part of the main body with the threaded end protruding out of the back.

The Water Inlet Valve allows water flow up to 0.87 gal./min. [gpm]. One side supplies water to the tank and one side supplies water directly to the Iced Tea dilution water nozzle. The time that each side draws water is controlled by the Hot Water Timer and Cold Water Timer.
Maintenance (continued)

DISPENSE VALVE:
Locate Dispense Valve by removing the top lid of machine. Looking down into the machine, the Dispense Valve is mounted on the tank.

FIXED FLOW: 1 LITER/ MINUTE [0.26 gal./ minute]
TB3 3 liters in 3 minutes [0.78 gal. in 3 minutes]

THERMOSTAT ADJUSTMENT:
Locate Thermostat: Remove the top cover. Thermostat is mounted on top of tank.

The thermostat is factory set to deliver hot brewing water at 195°F with the thermostat knob turned to full ON position. If adjustments should be necessary to increase or decrease the water temperature, proceed as follows:

To INCREASE the water temperature,
1. Turn Thermostat Shaft to its maximum clockwise, CW, position.
2. Remove the knob and locate the Slotted Adjustment Screw inside the hollow thermostat shaft.
3. Using a narrow-bladed screwdriver, engage slotted adjustment screw and turn it ¼ turn slowly counterclockwise, CCW.
4. Allow a few minutes for the temperature to reach set level. The Heater Light will go ON, indicating the heating element is activated, wait for it to go OFF, indicating that the water has reached new set temperature.
5. Take a temperature reading and repeat if necessary.

To DECREASE the water temperature - simply turn the Thermostat Knob one notch counterclockwise CCW to the next lower dial setting.

CRITICAL COMPONENTS TESTS

A WARNING: Brewer should be unplugged from electrical outlet before any service is performed.

A) Water Inlet Valve Test

Check hot water side, going to tank:
1. Turn power off. If the water level rises inside the tank, the Water Inlet Valve is leaking.
2. Disconnect wires from the Water Inlet Valve coil and connect a 2 wire line cord to the terminals. Plug it into electrical outlet. If water flows in and stops when you pull it out, the Valve is working correctly. Repeat this test a few times. The problem may be in the Probe or Water Level Control Board. If water does not flow in when the cord is plugged into an electrical outlet, the Solenoid coil may be damaged, opened, or the valve may have an obstruction preventing the water from flowing in. Clean or replace it.

Check cold water side, going to dilution nozzle:
1. Turn power off. If water keeps coming out of the dilution nozzle, the solenoid might be clogged or damaged.
2. Check Valve should be provided and installed by the customer to prevent backflow. To check proper function of Check Valve, disconnect water line from the Check Valve, check for dripping from the disconnected end of the Check Valve. If it leaks replace it.
Maintenance (continued)

⚠️ WARNING: Brewer should be unplugged from electrical outlet before any service is performed.

CRITICAL COMPONENTS TESTS (CONTINUED)

B) Probe Test

If lack of water persists, check the probe as follows:
1. Turn on the power and water supply. Check inside the tank to make sure the water is not touching the Probe.
2. Pull wire and terminal out of the Probe rod.
3. If water still does not flow after the wire is disconnected from the Probe, the problem may be in the Solid State Water Level Control Board.
4. If water starts flowing into the tank, the Probe may be grounded, due to excessive liming. Check with ohmmeter. Clean or replace probe.

C) Solid State Water Level Control Board Test
Check the board as follows:

1. Make sure there is power input to the board at the terminals 2 & 3. Your voltmeter should read 115 Volts. It should read the same at terminals 1 & 3. This is the output power to electrify the coil of the Solenoid Valve to open it. The lack of voltage at terminals 2 & 4 will indicate that the board is not working properly.
2. Make sure all wire connections to the board are tight.

3. The grounding plate at the top, in the back of the board, should be securely grounded. The board will not work or will work erratically if it is not grounded properly.
4. If after this, the Controller is still failing to open the Water Inlet Valve, replace the Water Level Control Board.

WARNING: Brewer should be unplugged from electrical outlet before any service is performed.
Troubleshooting Guide
Before you call for help, please read the following:

**WARNING** To reduce risk of electrical shock, unplug the power cord before repairing or servicing any internal components. Before any attempt to replace a component, be sure to check all electrical connections for proper contact.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
</table>
| **Brewed Cold Tea.** | Heater Switch OFF.  
Run out of hot water.  
Thermostat is OFF.  
Loose electrical connection.  
Thermostat is defective.  
Hi-Limit Temperature Switch is tripped.  
Bad Heating Element or Heater is burned out.  
Bad low temperature cutout circuit (Contactor/Relay). | Turn Heater Switch ON.  
Allow time for water in tank to heat after filling.  
Set Thermostat at 197°F [to max. position].  
Check all electrical connections for contact.  
Replace Thermostat.  
Replace the Hi-limit Temperature Switch.  
Replace Heater.  
Replace Contactor/ Relay. |
| **Tea too weak.** | Not enough tea in the brew funnel.  
Water flow too low.  
Brew time is too short.  
Water is too cold. | Put more tea in the brew funnel (see chart).  
Check flow rate. (It should be 0.26 gal./min.)  
Replace Dispense Valve.  
Adjust hot water timer to 3 min. 197°F (to max. position).  
Adjust Thermostat to 197°F (to max. position). |
| **Water keeps dripping or running from dilution nozzle.** | Leaking Water Inlet Valve.  
Clogged/ stuck Water Dispense Valve. | Clean/check fittings of Water Inlet Valve.  
Replace Water Inlet Valve if needed. See Water Inlet Valve Test.  
Clean/unclog Water Dispense Valve. Replace Dispense Valve if defective. |
| **No water is going into tank at all or no water is coming from dilution nozzle.** | Water Inlet Valve malfunction.  
Hi-Level Float Switch malfunction.  
Probe malfunction.  
Solid State Water Level Controls board malfunction.  
Timer malfunction. | Check Water Inlet Valve. Replace if necessary.  
See Water Inlet Valve Test.  
Test High-Level Float Switch.  
Replace if necessary.  
Check Probe. Replace if necessary.  
Check The Water Level Controls. Replace if necessary.  
Check Timer: Compare time dispensing vs. set time on Timer. Replace if necessary. |
| **Water will not stop flowing into water tank.** | Water Level Probe malfunction.  
Solenoid (Water Inlet Valve) malfunction.  
Solid State Water Level Control board malfunction.  
Float Switch malfunction. | Check Level Control Probe. Replace if necessary. See Probe Test.  
Check Solenoid. Replace if necessary.  
Check the Water Level Controls. Replace if necessary.  
Replace Float Switch. |
| **Water is not heating up in the water tank.** | Heater Switch is OFF.  
Thermostat is OFF.  
Loose connection on Thermostat.  
Hi-Limit Temperature Switch is tripped or it is defective.  
Heater is burned out or defective.  
Bad Low Temperature Cutout Circuit (Contactor/Relay). | Turn Heater Switch ON.  
Turn Thermostat ON by turning Thermostat Knob clockwise.  
Make sure all wires and ring terminals on the thermostat are tight.  
Reset the Hi-Limit Button. If heater still does not work, replace the Hi-limit Temperature Switch.  
Replace the Heater.  
Replace Contactor/ Relay. |
Troubleshooting Guide (continued)

If you still need help, call Grindmaster-Cecilware Technical Service Department, (502) 425-4776 or (800) 695-4500 (USA & Canada only) (Monday through Friday 8 AM - 6 PM EST). Please have the model and serial number ready so that accurate information can be given.

Prior authorization must be obtained from Grindmaster-Cecilware for all warranty claims.

Grindmaster-Cecilware provides the industry’s BEST warranty. Visit our website at GMCW.com for warranty terms and conditions.

Parts Diagram and List

Spare Parts

LARGE FUNNEL WITH STANDARD RIM
USED ON TB3
PART NO V211AL

RESTRICTOR
K604AL (0.187 DIA)

BREW FUNNEL, MILKY
V211AL

FAUCET BRUSH X159AL

DRIP TRAY

DRIP TRAY PLATFORM
# RE73A

DRIP TRAY
# 75014L

DRIP TRAY GRILL
# 75015L
Parts Diagram and List (continued)

Spare Parts

BLACK COVER-MOLDED

M776QL

M028AL

P264A

M776AL

M028AL

P264A

Q080QL

STAINLESS STEEL COVER

Q181AL (3 GAL)

M632AL (2)

P015AL (2)

D064EL

355-00025

19015L (2)

359-00092

RT31AL

RT33QL

LABEL # 380-00061

PINCH FAUCET # D084AL

COVER, BREWING

# Q184QL

BASE, SU3P

# R165AL
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Part No</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1</td>
<td>Brew-Thru Cover</td>
<td>94904</td>
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<tr>
<td>2</td>
<td>Fitting, Nozzle</td>
<td>94813</td>
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<tr>
<td>3</td>
<td>Spray Head</td>
<td>94821</td>
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<tr>
<td>4</td>
<td>Spray Head Adapter</td>
<td>94814</td>
<td>1</td>
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<td>5</td>
<td>WASHER RED SILICONE</td>
<td>M391AL</td>
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<td>6</td>
<td>DUAL LEVEL CONTROL BOARD</td>
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<td>7</td>
<td>Power On-Off Switch</td>
<td>L155AL</td>
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<tr>
<td>8</td>
<td>Hose, Drain (24”)</td>
<td>M326AL</td>
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<td>9</td>
<td>Hose, Water Inlet (24”)</td>
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<td>10</td>
<td>Hose, Disp. Tube</td>
<td>822816L</td>
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<td>11</td>
<td>TEMP. SET. ADJUSTER</td>
<td>659422L</td>
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<td>12</td>
<td>RELAY TEMPERATURE LOCK-OUT</td>
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<td>BREW TIMER</td>
<td>L181AL</td>
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<td>36</td>
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## HOT WATER TANK
### Part No. RV33C 2.0 Gal

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<th>DESCRIPTION</th>
<th>PART NO</th>
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<td>1</td>
<td>TANK, WELDED SUB-ASSEMBLY</td>
<td>RV330L</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>GASKET, SILICONE BUTT SPLCED</td>
<td>M600AL</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>SCREW, 1/4-20 x 5/8 SS</td>
<td>K402BL</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>LEVEL CONTROL PROBE</td>
<td>M461AL</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>SILICONE GROMMET, 12mm</td>
<td>L467AL</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>DISPENSE VALVE 110V</td>
<td>L681AL</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>HI-LIMIT, 226°F CUTOUT</td>
<td>L573AL</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>ELBOW, 90°</td>
<td>G382AL</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>WASHER, COPPER/TEFLON</td>
<td>M730AL</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>SILICONE GROMMET, PLUG</td>
<td>M494AL</td>
<td>1</td>
</tr>
</tbody>
</table>

The diagram illustrates the parts of the HOT WATER TANK, with each part numbered and labeled accordingly. The parts are arranged in a logical order to facilitate understanding and assembly.