LAVIT

Service Manual Rev B

Lavit LB115 Dispenser

FOR TECHNICAL ASSISTANCE
PLEASE CALL 1.855.750.5377

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About this Manual

This Technical Manual is designed to support the service departments and field technicians of Lavit's authorized Distributors and Dealers.

The manual provides an overview of the Lavit Beverage Dispenser and recommended installation, operation, and troubleshooting procedures. The manual also provides basic instructions for repair and replacement of various components as necessary to maintain the full functionality of the Lavit Beverage Dispenser.

Conventions used in this manual include:

BOLD CAPITALIZED TEXT is used to highlight critical information for the technician.

When the  symbol appears, critical safety information is provided.

Lavit also provides Distributors and Dealers with Technical Bulletins and Service Bulletins.

Technical Bulletins are generally information contained in this manual but provided in a one- or two-page bulletin for ease of access and use. For example, "How to Calibrate Your Lavit Dispenser" is a Technical Bulletin provided for easy reference but the same information is contained in this full manual.

Service Bulletins are related to current service or operating issues with the Lavit Beverage System and provide critical guidance to correct a known issue or to monitor a possible condition in the field.

	**At all times while servicing or your Lavit Dispenser please ensure that you have turned off the power to the unit.**

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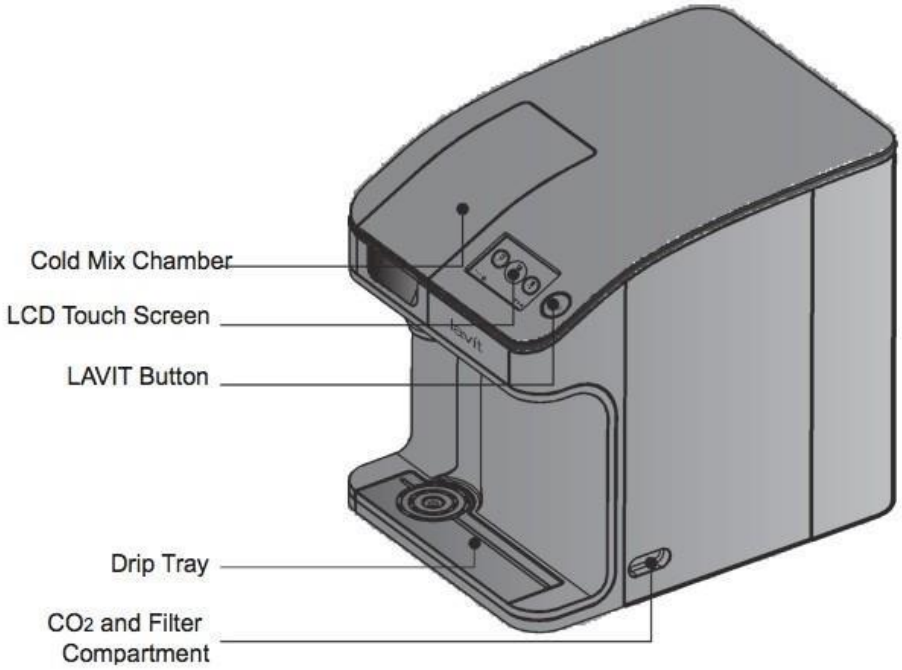
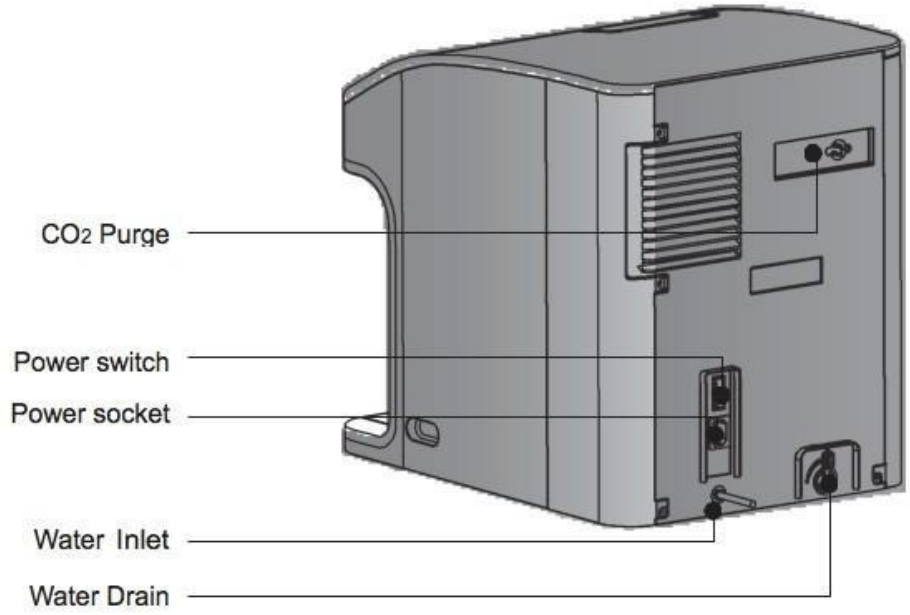
Table of Contents

NOTES:

Section 1: The Lavit Beverage Dispenser Overview





The Lavit Cold Beverage Dispenser

The Lavit Beverage Dispenser is designed to dispense either cold still water, cold sparkling water, or a Lavit beverage, which can be made with either still water or sparkling water, depending on the beverage type. When selecting a Lavit beverage using sparkling water, the beverage can be crafted using a choice of carbonation levels: soft, medium, or full.

The Lavit Cold Beverage Capsule

The Lavit beverage capsule and top lidding are made from aluminum and are fully recyclable without any additional processing. Each capsule is designed to be a single use mixing chamber for the beverage selection. This approach eliminates all possible beverage cross contamination.

Cold Mix Chamber

The primary function of the Lavit Beverage Dispenser is to make cold, flavored, and healthy drinks. The mix chamber is designed to receive a Lavit beverage capsule, crack and peel the top lidding, introduce a mix stream, and process and merge the beverage stream with a still or sparkling water finishing stream. The key components of the mix chamber include the blue capsule tray where a capsule is placed, the silicone water nozzle for the mix and finishing streams, and the entire capsule carriage which tilts forward to dispense the mixed beverage into the finishing stream. The carriage begins and ends it cycling at the **HOME POSITION**.

Cold Tanks

The cold still water tank has a storage capacity of 1.3 gallon (5 liter) of cold water and is made from 304 stainless steel. Sparkling water is made in a secondary 0.26-gallon (1 liter) capacity tank made from 304 stainless steel. The sparkling water tank sits inside the cold still water tank in a unique tank in tank system. The whole assembly is made cold by a fully immersed direct chill evaporator. The cold-water temperature is microprocessor controlled, is non-adjustable, and is factory set at 37.4F (3C)

Filter and CO_2 Cylinder Side Compartment

The door on the right side of the dispenser provides access to the filter and CO_2 cylinder compartment. The recommended Lavit ECO3 filter or a Lavit Bottled Water pump is mounted towards the front of the compartment. Connection points for both are molded in the compartment side wall. The CO_2 pressure regulator and gas cylinder are mounted towards the rear of the compartment.

Rear Panel

The rear panel on the Lavit Dispenser has the following features:

CO2 Purge – the toggle on the upper left (from the front of the unit) allows CO2 gas to be purged from the system. Purging is required on the initial set up and at any time gas pressure is to be released from the unit.

Power Socket – the supplied power cord attaches into the power socket on the lower right.

Power Switch – the power switch is used to power on or power off the unit.

Water Inlet – a quick connect ¼" fitting for the inlet water line. When initially installing the water, line push the line in a second time when water pressure is applied to ensure a complete seal.

Water Drain – the drain on the lower left of the panel is used to drain down the 5-liter cold water tank. The drain plug is secured with a screw. To remove the drain plug rotate it 90 degrees to the left.

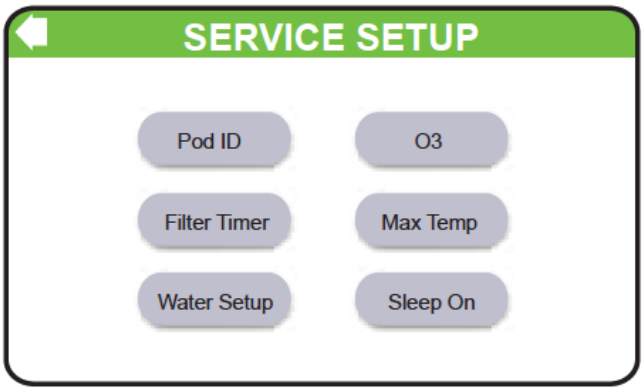
Microprocessor Control and Touchscreen

The Lavit Dispenser is a microprocessor-controlled beverage and water dispenser with a LCD touch screen providing the user an operating interface and to display process information. The microprocessor controls temperature, water filling, water levels, capsule mixing, water finishing streams, operating of the mix chamber, and dispenser status. The touchscreen will default to the **HOME SCREEN** when the unit is ready to dispense water or a beverage.

ANY SCREEN (OTHER THAN THE HOME SCREEN) CAN BE EXITED AT ANY TIME BY PRESSING THE BACK ARROW ON THE UPPER LEFT OF THE DISPLAYED SCREEN.

Service Screen and Date/Time Settings

The date and time set up screen and the service menu can be easily accessed by pressing the gear icon in the lower left of the Home Screen. After setting the date and time the service menu can be accessed by pressing the **SERVICE SET UP** icon. **USE THE PASSWORD TO ENTER THE SERVICE MENU IS 8888.**



From the Service Menu the technician can set the ozone on time, the allowed Max Temp for beverage and water dispensing, enabling or disabling Sleep Mode and the Filter Timer, and entering a Water Set Up Screen. The Pod ID setting is currently non-active for future use.

Lavit Button

The black Lavit button **MUST BE PUSHED TO DISPENSE WATER OR A BEVERAGE.** The use of a final dispense button allows the user to verify their drink selection and ensure a cup is placed under the dispense point prior to dispensing.

The button has a halo ring which changes color based upon the dispenser status. The halo colors are:

Blue halo= Stand by. Unit will dispense cold still water when pressed.

Green halo = Ready to dispense after menu selections are complete.

Flashing green = Dispensing. **PRESSING THE BUTTON WHILE FLASHING GREEN TERMINATES THE DISPENSE AND SENDS THE BEVERAGE CARRIAGE TO HOME POSITION**.

Red Halo = Waiting for selections to be completed.

Flashing red halo = Fault condition. **REFER TO TOUCHSCREEN GRAPHIC.**

Disinfection

The cold tank water system is disinfected every 24 hours at 3 am (factory setting). The Ozone Generator will turn on for 1 hour and as the generator runs, ozone is injected into the cold tank by means of the cold tank circulation pump. This ensures that the entire content of the cold tank is exposed to ozone every 24 hours. The ozone start time can be changed as required through the service screen.

Filtration for POU installation

Lavit recommends using the Lavit ECO3 Filter for dispenser installations to a building's main water supply (POU). The filter is a 0.5-micron carbon block rated at 1500 gallons, and is NSF certified to standard 42 Classes 1, chlorine taste and odor, and standard 53 cysts, lead and asbestos. The Lavit ECO3 also has a NSF certified multi-layer sediment particulate membrane to protect the carbon block. In any known high sediment water areas please use a pre-sediment filter before the machine and filter.

Antimicrobial Protection

The contact parts of the Lavit Dispenser are protected by Lavit through silver ion technology. A silver ion additive is added to the raw plastic parts as they are manufactured. This inhibits the growth of bacteria on contact surfaces. The additive will not leach out and will be effective for the life of the machine.

Bottled Water Installation

In addition to a POU installation, the Lavit Dispenser is designed to also work with a 5-gallon bottle water supply. A bottled water installation will require the fitting of a Lavit bottle water pump kit, which is supplied separately.

Transporting the Lavit Dispenser

The Lavit Unit should not be transported with water in either tank or with a CO_2 cylinder attached. Please drain the unit of all water per the instructions provided in this manual before moving the unit. The CO_2 cylinder should also be removed and the CO_2 regulator secured in place with tape.

CO_2 Cylinders

CO_2 cylinders are provided to distributors and dealers by authorized Lavit distributors. Each filled cylinder contains 1.5 pounds of liquid CO_2 which when released to atmosphere converts to a gas. Sparkling water is created by mixing CO_2 gas in cold chilled water. Each cylinder is filled with food grade or beverage grade CO_2. It is imperative that a minimum of food grade gas is provided. It is critical that distributors and dealers and their service personnel properly handle, store, and transport filled cylinders.

CO_2 Cylinder Handling

1. **DO NOT expose filled Lavit CO_2 cylinders to temperatures above 120°F (49°C) or below 34°F (1°C). If exposed to heat for a period of time the safety pressure seal on the cylinder will burst and may cause injury if the cylinder is in close proximity to the technician.**

2. **DO NOT wash the Lavit CO_2 bottles in the dishwasher and DO NOT rinse the bottle in hot water. DO NOT place the bottles in the freezer. Doing so will compromise the integrity of the carbonating bottle material and may result in serious personal injury.**

3. **DO NOT use any CO_2 bottle not specifically designed to work with the Lavit dispenser. Use only a LAVIT labeled cylinder provided by an authorized Lavit Cylinder Distributor.**

4. **The Lavit CO_2 cylinder should be properly installed prior to operating the Lavit dispenser.**

5. **The CO_2 cylinder should be inspected prior to use for any dents, punctures, or other damage. If any are detected, DO NOT use the CO2 bottle and contact your cylinder provider.**

6. **Mishandling the Lavit CO_2 cylinder can result in serious personal injury. Always keep CO_2 bottle away from any heat source and out of direct sunlight. Do not store or leave filled cylinders in a service van for long periods of time especially when experiencing warm weather.**

7. **Do not transport the Lavit Dispenser with the CO_2 cylinder connected.**

Section 2: Installation

Installation Overview

The Lavit Beverage Dispenser is designed to be installed in one of three ways.

Option 1: A POU connection to a mains water supply, fitted with a Lavit ECO3 filter.

Option 2: A 5-gallon bottled water supply using a Lavit pump kit.

Option 3: Connected to an AquaHost water dispenser with an AquaHost pump kit.

Instructions for installing a Lavit dispenser for each option are provided below.

Pre-Delivery Inspection

Prior to installing the Lavit Dispenser in one of three installation options, please conduct an inspection of the unit.

1. Unpack the unit. Verify that the power cord, drip tray, and CO_2 pressure regulator are included in the side walls of the foam packaging. Remove and set aside.

2. Remove the plastic bag from the unit and inspect the unit for any shipping damage. Open and close the mix chamber to ensure proper operation. Open and close the side panel access door to ensure proper functioning.

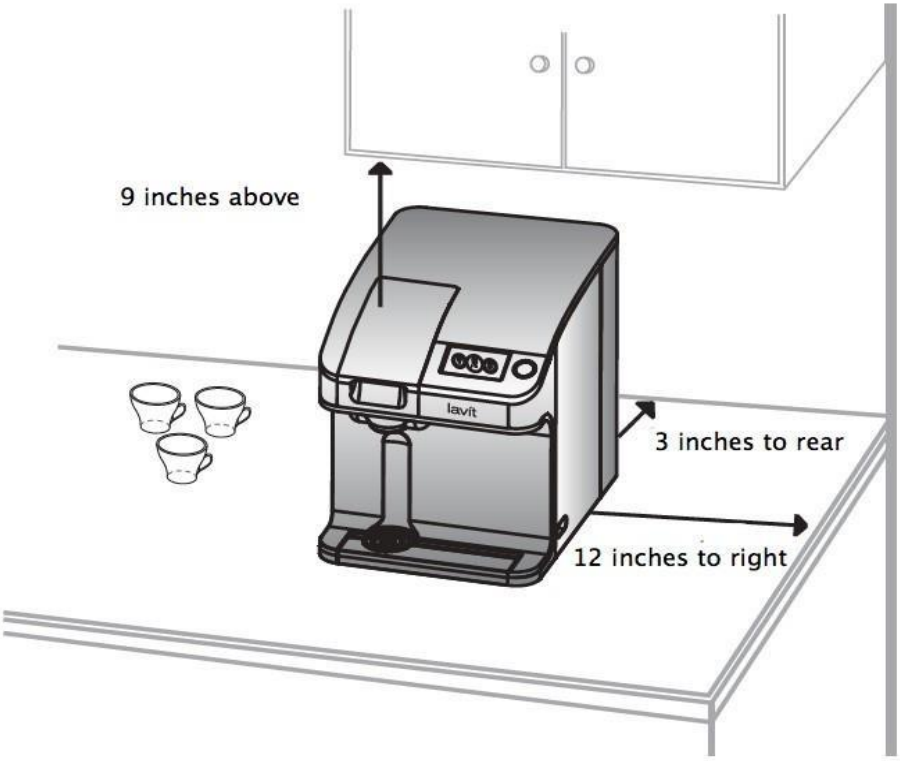
3. Verify that the blue capsule tray in the mix chamber is properly attached and free to move.

4. Ensure that the silicone nozzle is the mix chamber is tightly fastened and properly aligned straight up and down.

5. Note any damage and report any damage to your service supervisor.

6. It is recommended that all packaging material is saved and returned to your service location to be used when transporting or storing a dispenser in the future.

Locating the Lavit Dispenser



1. Place the dispenser on a firm flat surface, adjacent to the power supply and water supply.
2. Ensure there is an air gap (3 inches) in the rear of the unit.
3. Ensure there is clearance (12 inches) on the right side to open the side door to access the side compartment.
4. Ensure there is enough space above the mix chamber (9 inches) to properly open and close the chamber.
5. Do not install the dispenser in direct sunlight or adjacent to a heat source.

	**Dispensers should not be installed using a power extension cord. It is advised that all power sockets have been polarity checked and have a suitable earth connection.**

Proceed to the specific installation instructions for your selected water supply option.

Section 2a: POU Installation

Required Materials and Tools

Lavit ECO3 Filter Kit
¼" NSF approved water tubing
40 psi pressure reducing valve (¼" quick connect fittings recommended)
¼' In line check valve
¼" Shut off valve
Tubing cutter
" It is the responsibility of the installer to follow all local codes during installation"

	**Dispensers in a POU installation must be connected to a known potable water supply. It is recommended that the power cord be connected to a GFI outlet.**

Installation Instructions

1. Ensure that the minimum water inlet pressure from the mains supply is 28 psi. Connect to the water supply using a standard three-way valve connected to an under sink cold water shut off valve or connect in another acceptable manner to allow for ¼" water tubing to be connected. Run the tubing to the dispenser so that there is enough excess tubing to allow movement of the dispenser for service in place.

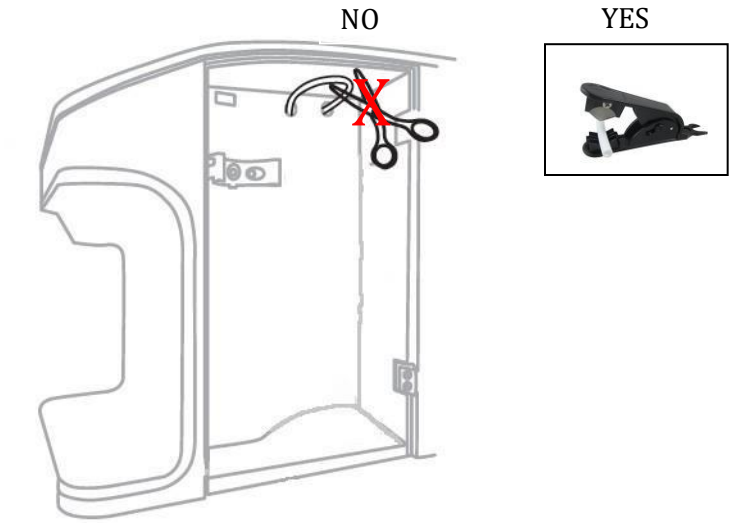
2. Properly secure the tubing with appropriate fasteners to minimize the possibility of the tubing being pulled off the mains connection and to provide an aesthetic installation for the customer.

3. Install the 40-psi pressure reducing valve, the in-line check valve, and the shut off valve on the water inlet tubing. From the mains connection it is recommended that the sequence is the PRV followed by the check valve and then the shut off valve. As an option a second shut off valve can be installed prior to the PRV to allow the removal of all downstream components.

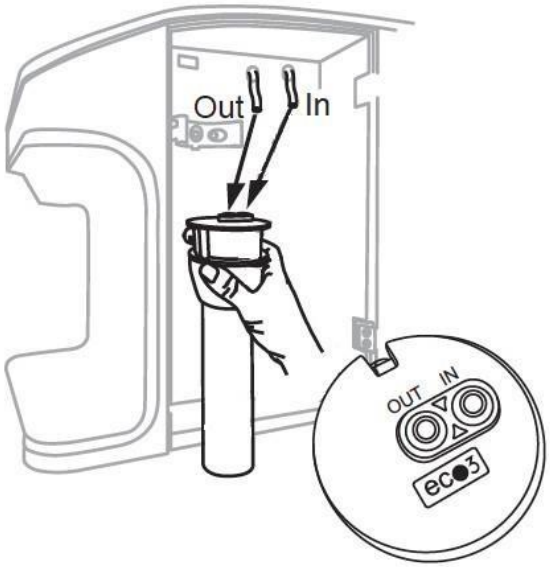
4. Flush the Lavit ECO3 filter outside of the dispenser to ensure no carbon fines can enter the dispenser.

5. Attached the supplied filter mounting bracket in the side compartment. Connection points are molded into the side wall.

6. Locate the water pipe that is looped inside the side compartment. Cut the loop.



7. Place the two ends of the pipe into the in and out push fits on the Lavit ECO3 filter. The right side of loop is water in. Mount the filter into the mounting saddle.

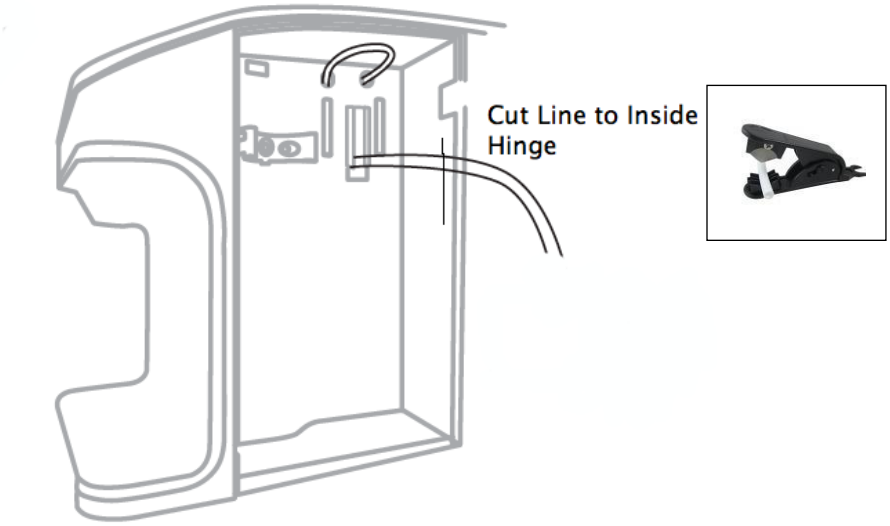


8. Before connecting the water supply to the dispenser, flush the water supply to waste, and if the water is running clear, connect the water supply to the rear of the dispenser.

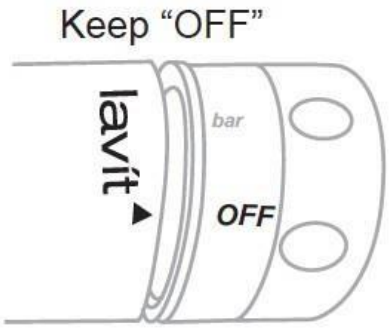
9. **IN ANY KNOWN AREA WITH HIGH SEDIMENT WATER, A PRE-SEDIMENT FILTER SHOULD BE INSTALLED BEFORE THE DISPENSER.**

10. Ensure that the Power Switch is in the OFF position (bottom in). Connect the power cord.

11. Locate the CO_2 inlet pressure line inside the side compartment. Extend the line away from the dispenser and trim the line using a tubing cutter so that the final length of the tube extends to the inside of the door hinge.



12. Connect the supplied CO_2 pressure regulator to the inlet tubing. Ensure that the regulator is fully off by turning the knob fully counterclockwise.



13. Wipe the bottle threads and screw the supplied 1.5-pound CO_2 cylinder onto the regulator. **DO NOT TURN THE GAS PRESSURE ON AT THIS POINT**. Place the cylinder in the side compartment ensuring the side door properly closes.

14. Turn on the water supply. Turn the power switch to ON at the rear of the dispenser.

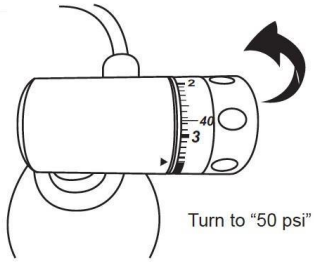
	**The dispenser is now "live" and proper safety precautions should be followed if any panels are removed from the unit.**

15. The dispenser will self-check on every power up and if OK will go to the LCD home screen and the Lavit Button halo will be red.

16. **TO FILL THE DISPENSER WITH WATER, PUSH THE LAVIT BUTTON AND THE DISPENSER WILL START TO FILL.** The screen will display a WATER TANK FILLING SCREEN.

17. When the water tanks are half filled, the compressor will turn on and start to chill. The soda pump will also turn on when the water tank is half full. The HOME screen will appear.

18. When the HOME screen appears turn the CO_2 gas pressure on. **SET THE REGULATOR TO 3.5 BAR OF PRESSURE BY ROTATING THE KNOB CLOCKWISE. 3.5 BAR OF PRESSURE (50 PSI) IS INDICATED AT THE BEGINNING OF THE RED SCALE ON THE REGULATOR.** The soda tank will fill with CO_2 gas.



19. Purge any air from the system by toggling the CO_2 Purge Valve located in the rear of the unit. Purge gas about 3 times for 2 seconds each time.

20. If the water tanks do not fill within 5 minutes the water inlet valve will automatically close. This feature is a safety feature that prevents the continuous running of water in the case of a water leak. An error screen indicating a possible leak will be displayed. To clear the dispenser of this condition, turn the power off and then back on.

21. Push the Lavit Button again and the tanks will then automatically fill to capacity and shut off and the Lavit button halo will be blue.

22. While the water tanks are filling and the compressor is chilling the water, set the current date and time by pressing the gear shaped Service Icon on the lower left of the HOME screen.

23. From the Date/Time Screen, enter the Service Menu by pressing the Service Setup icon.

24. From the Service Menu select and make the following choices:

    Enter MAX TEMP and DISABLE (when disabled the icon will read “Enable”).

    Set the Filter Timer to ENABLE (when enabled the icon will read “Disable”) and reset the timer if the filter life is to be tracked by the unit. The filter icon on the HOME screen will change to RED when enabled and six months have passed.

    Enable or Disable Sleep Mode.

    Select WATER SETUP and display the water calibration screen. Calibrate the three water streams (mix, still and sparkling) by following the Water Calibration Procedure found at the end of this Section 2, Page 25.

25. After completing the water calibration return to the HOME screen by pressing the Return Arrow in the upper left of the touchscreen to back out of all service screens.

26. Check for CO_2 leaks, check for water leaks.

27. The dispenser should now be ready to use after the dispenser reaches temperature. The first cooling cycle will take approximately 70 minutes.

28. Enable and set the MAX TEMP if so desired to ensure that every beverage is served chilled. It is recommended that this feature is Disabled unless a user has asked for colder beverages.

Section 2b: Bottled Water Installation

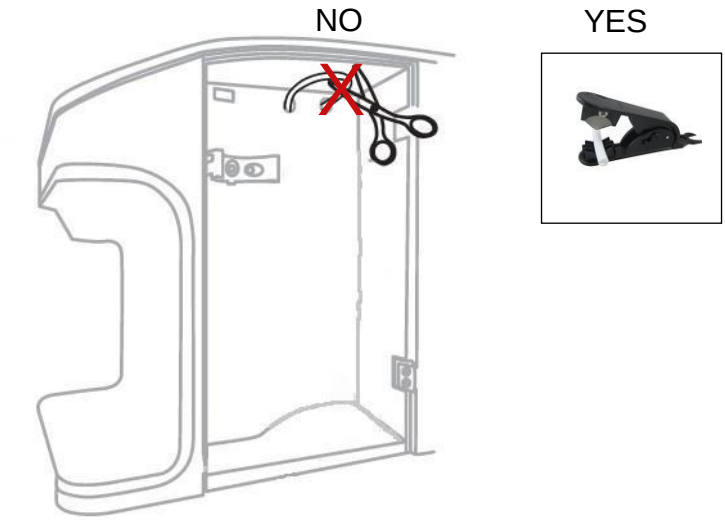
Required Materials and Tools

A five-gallon bottle of water
Lavit Bottled Water Pump Kit
¼" NSF approved water tubing (black color recommended)
Tubing cutter

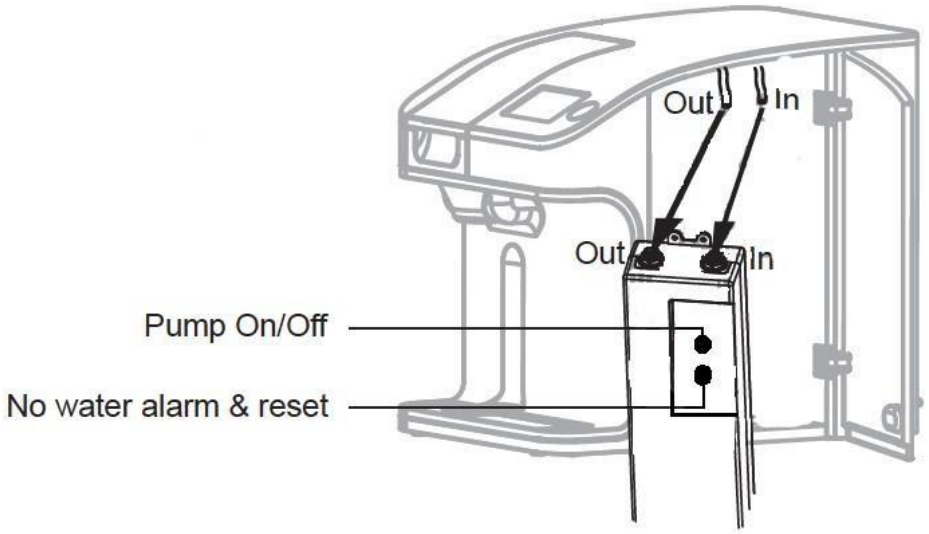
⚠	**It is recommended that the power cord be connected to a GFI outlet.**

Installation Instructions

1. Locate the water pipe that is looped inside the side compartment.



2. Cut the water pipe loop and place the two ends of the pipe into the Lavit Bottled Water Pump marked in and out. The right-hand side of the loop is water in.



3. Fit the pump into the side compartment using the slots in the bottom of the panel and the screw attachment points. Plug the pump into the supplied power socket inside the compartment. Ensure the Pump Power Switch is OFF.

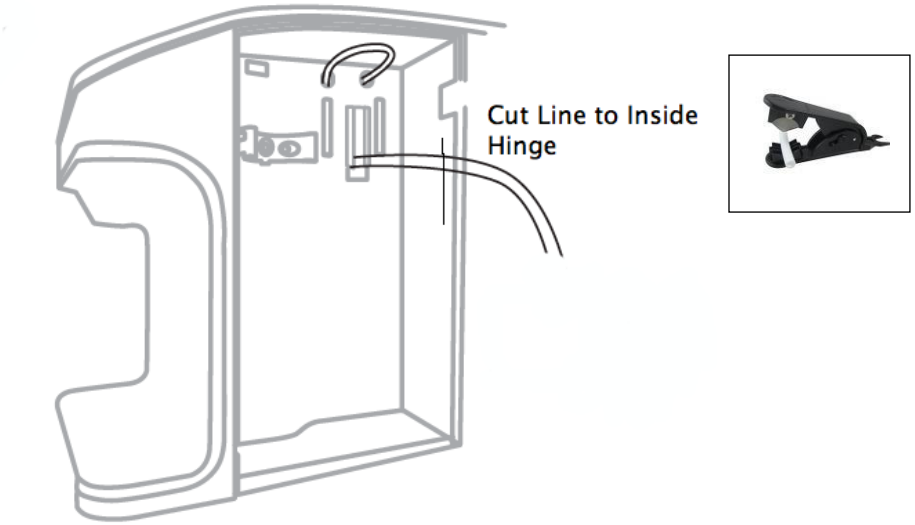
4. Place the 5-gallon bottle within six (6) feet of the machine and remove the bottle seal.

5. Fit the water bayonet into the bottle and seal the bottle with the cap located on the water bayonet.

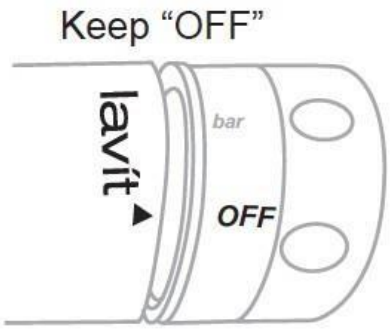
6. Connect the ¼" water tubing from the top of the water bayonet to the water inlet connection at rear of the dispenser.

7. Ensure that the Dispenser Power Switch is in the OFF position (bottom in). Connect the power cord.

8. Locate the CO_2 inlet pressure line inside the side compartment. Extend the line away from the dispenser and trim the line using a tubing cutter so that the final length of the tube extends to or slightly past the inside of the door hinge.



9. Connect the supplied CO_2 pressure regulator to the inlet tubing. Ensure that the regulator is fully off by turning the knob fully counterclockwise.



10. Screw the supplied 1.5-pound CO_2 cylinder onto the regulator. **DO NOT TURN THE GAS PRESSURE ON AT THIS POINT**. Place the cylinder in the side compartment ensuring the side door properly closes.

11. Turn the power switch to ON at the rear of the dispenser.

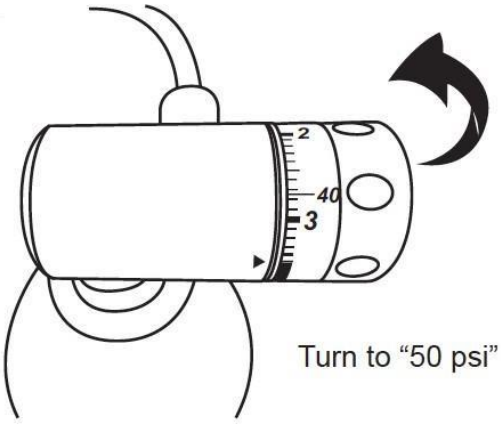
	**The dispenser is now "live" and proper safety precautions should be followed if any panels are removed from the unit.**

12. The dispenser will self-check on every power up and if OK will go to the LCD home screen and the Lavit Button halo will be red.

13. **TO FILL THE DISPENSER WITH WATER, TURN THE LAVIT PUMP TO ON, PUSH THE LAVIT BUTTON AND THE DISPENSER WILL START TO FILL.** The screen will display a WATER TANK FILLING SCREEN.

14. When the water tanks are half filled, the compressor will turn on and start to chill. The soda pump will also turn on when the water tank is half full. The HOME screen will appear.

15. When the HOME screen appears turn the CO_2 gas pressure on. **SET THE REGULATORTO 3.5 BAR OF PRESSURE BY ROTATING THE KNOB CLOCKWISE. 3.5 BAR OF PRESSURE (50 PSI) IS INDICATED AT THE BEGINNING OF THE RED SCALE ON THE REGULATOR**. The soda tank will fill with CO_2 gas.



16. Purge any air from the system by toggling the CO_2 Purge Valve located in the rear of the unit. Purge gas about 3 times for 2 seconds each time.

17. If the water tanks do not fill within 5 minutes the water inlet valve will automatically close. This feature is a safety feature that prevents the continuous running of water in the case of a water leak. An error screen indicating a possible leak will be displayed. To clear the dispenser of this condition, turn the power off and then back on. Reset the Lavit Pump if necessary (Red Light) by pushing the reset button on the pump. The reset should be green.

18. Push the Lavit Button again and the tanks will then automatically continue filling to capacity and shut off and the Lavit button halo will be blue.

19. While the water tanks are filling and the compressor is chilling the water, set the current date and time by pressing the gear shaped Service Icon on the lower left of the HOME

screen.

20. From the Date/Time Screen, enter the Service Menu by pressing the Service Setup icon.

21. From the Service Menu select and make the following choices:

    Enter MAX TEMP and DISABLE (when disabled the icon will read “Enable”).

    Set the Filter Timer to DISABLE (when Disabled the icon will read “Enable”). Filter life is not tracked for Bottled Water installations.

    Enable or Disable Sleep Mode.

    Select WATER SETUP and display the water calibration screen. Calibrate the three water streams (mix, still and sparkling) by following the Water Calibration Procedure found at the end of this Section 2, Page 25.

22. After completing the water calibration return to the HOME screen by pressing the Return Arrow in the upper left of the touchscreen to back out of all service screens.

23. Check for CO_2 leaks, check for water leaks.

24. The dispenser should now be ready to use after the dispenser reaches temperature. The first cooling cycle will take approximately 70 minutes.

25. Enable and set the MAX TEMP if so desired to ensure that every beverage is served chilled. It is recommended that this feature is Disabled unless a user has asked for colder beverages.

26. Should the 5-gallon bottle run out of water then the Lavit pump kit will sound an alarm and the reset button will turn from green to red. Change the bottle and press the reset button. Failure to change the bottle could result in a dry vend on a capsulebeverage.

Section 2c: Aqua Host Installation

Required Materials and Tools

AquaHost Water Dispenser
AquaHost Pump Kit (PK100)
¼" NSF approved water tubing (black color recommended)
Tubing cutter

	**It is recommended that the power cord be connected to a GFI outlet.**

Installation Instructions

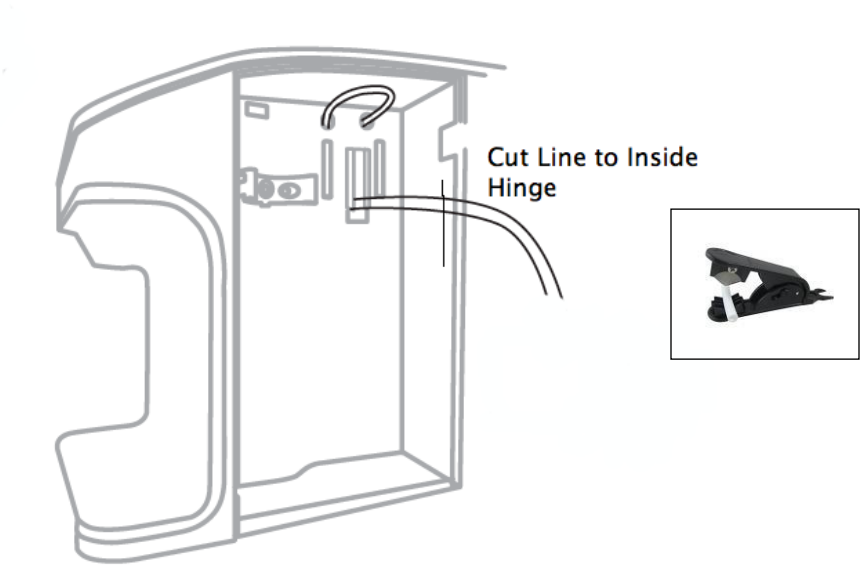
1. Install the AquaHost Pump Kit according to the instructions provided by the AquaHost manufacturer.

2. Locate the Lavit Beverage Dispenser no more than six (6) feet away from the AquaHost unit.

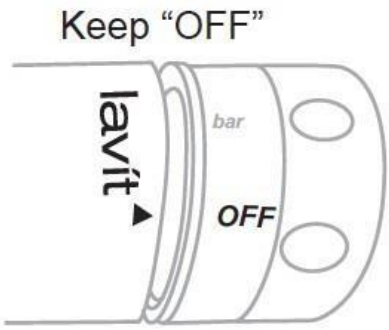
3. Connect the ¼" water tubing from the outlet of the AquaHost Pump to the water inlet connection at rear of the Lavit dispenser.

4. Ensure that the Dispenser Power Switch is in the OFF position (bottom in). Connect the power cord.

5. Locate the CO_2 inlet pressure line inside the side compartment. Extend the line away from the dispenser and trim the line using a tubing cutter so that the final length of the tube extends to the inside of the door hinge.



6. Connect the supplied CO_2 pressure regulator to the inlet tubing. Ensure that the regulator is fully off by turning the knob fully counterclockwise.



7. Screw the supplied 1.5-pound CO_2 cylinder onto the regulator. **DO NOT TURN THE GAS PRESSURE ON AT THIS POINT**. Place the cylinder in the side compartment ensuring the side door properly closes.

8. Turn the power switch to ON at the rear of the dispenser.

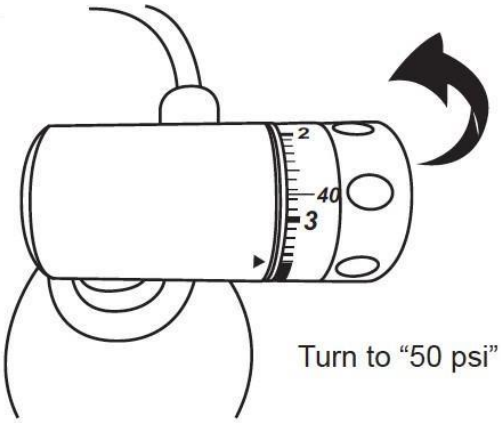
	**The dispenser is now "live" and proper safety precautions should be followed if any panels are removed from the unit.**

9. The dispenser will self-check on every power up and if OK will go to the LCD home screen and the Lavit Button halo will be red.

10. **TO FILL THE DISPENSER WITH WATER, TURN THE AQUAHOST PUMP TO ON, PUSH THE LAVIT BUTTON AND THE DISPENSER WILL START TO FILL.** The screen will display a WATER TANK FILLING SCREEN.

11. When the water tanks are half filled, the compressor will turn on and start to chill. The soda pump will also turn on when the water tank is half full. The HOME screen will appear.

12. When the HOME screen appears turn the CO_2 gas pressure on. **SET THE REGULATOR TO 3.5 BAR OF PRESSURE BY ROTATING THE KNOB CLOCKWISE. 3.5 BAR OF PRESSURE (50 PSI) IS INDICATED AT THE BEGINNING OF THE RED SCALE ON THE REGULATOR.** The soda tank will fill with CO_2 gas.



13. Purge any air from the system by toggling the CO_2 Purge Valve located in the rear of the unit. Purge gas about 3 times for 2 seconds each time.

14. If the water tanks do not fill within 5 minutes the water inlet valve will automatically close. This feature is a safety feature that prevents the continuous running of water in the case of a water leak. An error screen indicating a possible leak will be displayed. To clear the dispenser of this condition, turn the power off and then back on. Reset the AquaHost Pump if necessary (Red Light) by pushing the reset button on the pump. The reset should be green.

15. Push the Lavit Button again and the tanks will then automatically continue filling to capacity and shut off and the Lavit Button halo will be blue.

16. While the water tanks are filling and the compressor is chilling the water, set the current date and time by pressing the gear shaped Service Icon on the lower left of the HOME

screen.

17. From the Date/Time Screen, enter the Service Menu by pressing the Service Setup icon.

18. From the Service Menu select and make the following choices:

    Enter MAX TEMP and DISABLE (when disabled the icon will read “Enable”).

    Set the Filter Timer to DISABLE (when Disabled the icon will read “Enable”). Filter life is not tracked for Bottled Water installations.

    Enable or Disable Sleep Mode.

    Select WATER SETUP and display the water calibration screen. Calibrate the three water streams (mix, still and sparkling) by following the Water Calibration Procedure found at the end of this Section 2, Page 25.

19. After completing the water calibration return to the HOME screen by pressing the Return Arrow in the upper left of the touchscreen to back out of all service screens.

20. Check for CO_2 leaks, check for water leaks.

21. The dispenser should now be ready to use after the dispenser reaches temperature. The first cooling cycle will take approximately 70 minutes.

22. Enable and set the MAX TEMP if so desired to ensure that every beverage is served chilled. It is recommended that this feature is Disabled unless a user has asked for colder beverages.

23. Should the AquaHost unit run out of water then the AquaHost pump kit will sound an alarm and the reset button will turn from green to red. Change the bottle in the AquaHost and press the pump reset button. Failure to change the bottle could result in a dry vend on a capsule beverage.

Water Stream Calibration

EACH LAVIT BEVERAGE DISPENSER INSTALLED IN A CUSTOMER LOCATION SHOULD BE CALIBRATED DURING THE INSTALLATION PROCESS TO ENSURE THAT PROPER WATER AND BEVERAGE VOLUMES ARE DISPENSED. The Lavit Beverage Capsule is sized to deliver 12-ounce beverages. It is important to deliver 12-ounce beverages to maximize customer satisfaction with the beverage taste. Too little water will produce overly sweet and intense beverage flavor. Too much water will deliver weak and watery beverages.

It is critical that 12-ounce beverages be served each time. To properly calibrate the Lavit Dispenser, three water streams must be calibrated: mix, still, and sparkling. During the calibration process 12 ounces of water should be drawn from the dispenser for each calibration. The unit's software determines the amount of time it takes for the 12 ounces to be dispensed for each stream. The software then sets the proper time sequence to deliver 7- and 12-ounce water servings and 12-ounce beverage servings.

The entire calibration process should take no more than five (5) minutes.

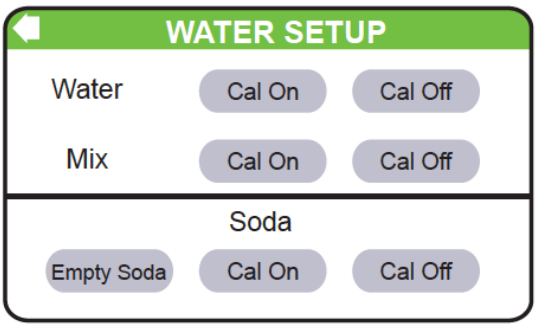
Required Materials and Tools

Measuring Beaker or Measuring Cup. A Measuring cup is recommended – marked for 12 oz. or 355 ml
I not use a weight Scale – (Food scales are available in most department stores such as Wal-Mart or Target)

Calibration Instructions

1. Open the mix chamber and remove the blue capsule tray. Close the chamber.

2. At initial startup, all the water lines should be first purged of air. Enter the WATER SETUP screen from the SERVICE MENU screen. Your WATER SETUP screen should be as below.



3. If using a scale, turn the scale on and set the unit of measure to GRAMS. One milliliter of water weighs exactly one gram. So, by measuring weight in grams we are also measuring volume in milliliters. 12 ounces of water equals 355 milliliters of water and weighs 355 grams. Place your measuring beaker on the scale and set the TARE weight. Your scale should read zero.

4. Place your measuring beaker under the water dispense.

5. Press the Water CAL ON icon. Let the still water run for about five seconds to remove all air in the still water lines. Press the CAL OFF icon. Dispose the water.

6. Place your measuring beaker in the dispense area and press the Water CAL ON icon. Allow the unit to dispense 12 ounces of still water. Press the CAL OFF icon immediately when 12 ounces are dispensed.

7. Weigh your beaker of water. 12 ounces will weigh 355 grams. The acceptable range is plus or minus 10 grams (345 g to 365 g). Repeat as necessary to achieve a result in the target range.

8. Follow Steps 3 through Step 7 for the Mix Stream using the appropriate CAL ON and CAL OFF icons for the Mix Stream (Purge air and then calibrate).

9. To calibrate the sparkling water stream first ensure that the CO2 pressure regulator is set to 3.5 bar or 50 psi.

10. Follow Steps 3 through Step 7 for the Sparkling Stream using the appropriate CAL ON and CAL OFF icons for the Sparkling Stream (Purge air and calibrate).

11. After calibration has been completed return to the HOME screen by pressing the BACK ARROW in the upper left of the touchscreen until reaching HOME.

12. Empty your measuring beaker.

13. Dispense a medium water. It should weigh 207 grams plus/minus 10 g.

14. Dispense a large water. It should weigh 355 grams plus/minus 10 g.

15. Dispense a sparkling water. It should weigh 207 grams plus/minus 10 g.

16. If the volumes are out of range **DO NOT RECALIBRATE**. Proceed to the next step.

17. Replace the blue capsule tray in the mix chamber.

18. Dispense a Lavit Tea, a Lavit still water beverage, and a Lavit sparking water beverage. Use one capsule for all beverage measurements. If available use lemonade, lemon lime, or apple

19. All selections should dispense 355 grams plus/minus 10 grams of beverages.

20. **IF THE BEVERAGE VOLUMES ARE TOO HIGH OR TOO LOW THEN RECALIBRATE THE STILL WATER OR THE SPARKLING WATER STREAMS AS NECESSARY TO EITHER INCREASE OR DECREASE THE BEVERAGE VOLUME. RE-CHECK YOUR BEVERAGE VOLUMES.**

21. Once complete, the Lavit Dispenser will retain the settings and 12 ounces of beverages will be served each time.

Section 3: Operating the Lavit Beverage Dispenser

Once the Lavit Beverage Dispenser is properly installed and all water streams have been calibrated, operating the unit is done through the touchscreen and the Lavit Button to the right of the touchscreen.

In normal operation the unit will display the HOME Screen

The HOME Screen has two large icons, one for Lavit Beverages and the second for preset volumes of still and sparking water. The HOME screen may also have up to four icons displayed:

The FILTER icon is displayed if the Filter Timer in the Service Set Up Menu has been set to ENABLE. If DISABLED this icon will not appear on the HOME screen

The Water Icon indicates if the dispenser's cold-water tank has enough water available to dispense water or beverages. If RED, the tank should be filling.

The CO_2 gas icon indicates that the CO_2 cylinder has enough gas pressure available to craft a Lavit Sparkling Beverage. If RED, a cylinder change is required.

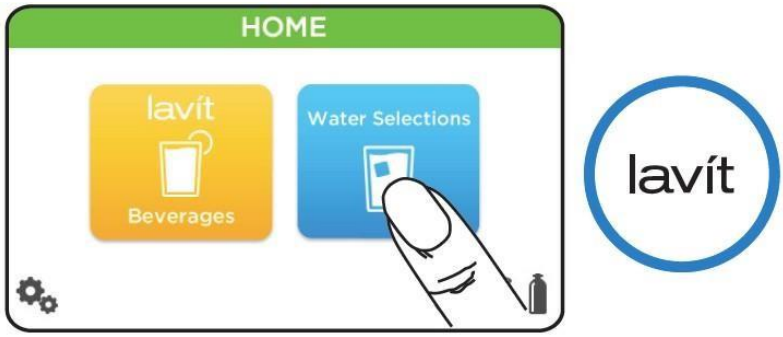
The Service Set Up icon allows the user to access the DATE/TIME screen and then from that screen access the SERVICE MENU screen after entering a valid password.

LAVIT

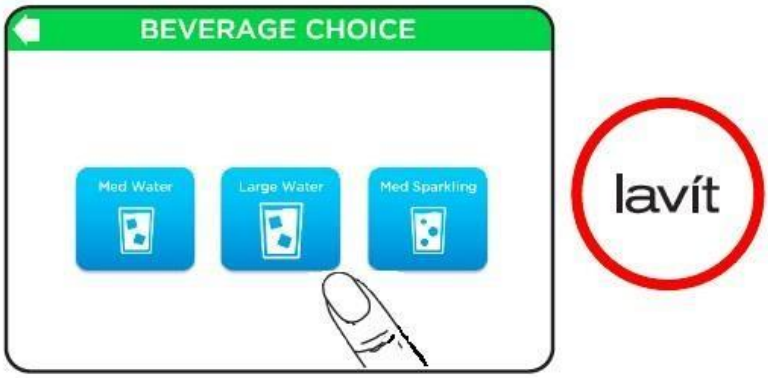
To Dispense Cold Still Water

Pressing and holding the Lavit Button when the halo is BLUE dispenses cold still water.

To Dispense Preset Volumes of Still Water and Sparkling Water



Press the Water Selections button on the touchscreen.

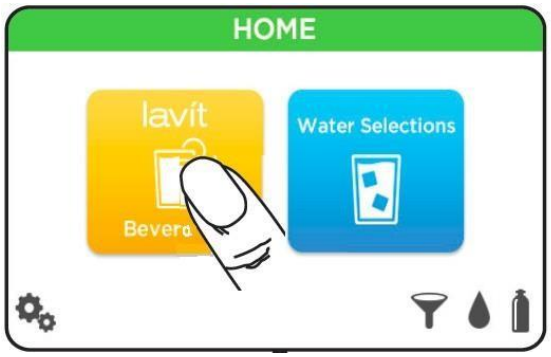


Select a Medium Water, Large Water, or Sparkling Water.

Press the Lavit Button when ready to dispense your choice. The Lavit Button halo will be GREEN.

While dispensing the halo will FLASH GREEN. **PRESSING THE LAVIT BUTTON WHILE FLASHING GREEN TERMINATES THE DISPENSE.**

To Craft and Dispense an Ice Tea



Insert a Lavit Tea Capsule into the Mix Chamber or Select LAVIT BEVERAGES from the HOME SCREEN.

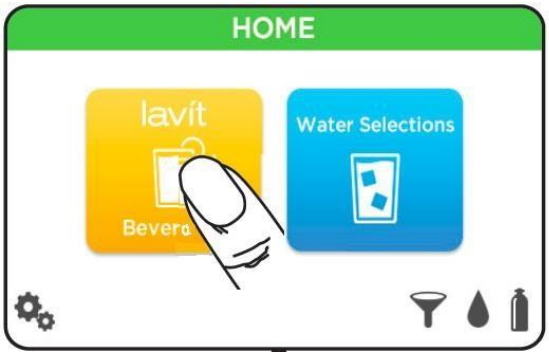
If you first selected LAVIT BEVERAGES before inserting a capsule the PLACE CAPSULE SCREEN will display. Place your tea capsule into the mix chamber and close.

Select Lavit Tea from the BEVERAGE SELECTION SCREEN.

Press the Lavit Button when ready to dispense your tea. The Lavit halo will be GREEN.

While dispensing the halo will FLASH GREEN. **PRESSING THE LAVIT BUTTON WHILE FLASHING GREEN TERMINATES THE DISPENSE.**

To Craft and Dispense a Still Beverage



Insert a Lavit Beverage Capsule into the Mix Chamber or Select LAVIT BEVERAGES from the HOME SCREEN.

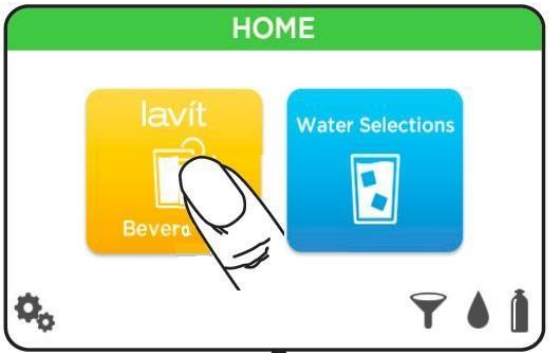
If you first selected LAVIT BEVERAGES before inserting a capsule the PLACE CAPSULE SCREEN will display. Place your beverage capsule into the mix chamber and close.

Select STILL as your beverage water choice.

Press the Lavit Button when ready to dispense your still beverage. The Lavit Button halo will be GREEN.

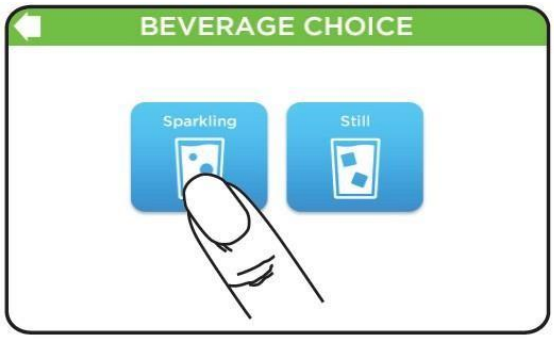
While dispensing the halo will FLASH GREEN. **PRESSING THE LAVIT BUTTON WHILE FLASHING GREEN TERMINATES THE DISPENSE.**

To Craft and Dispense a Sparkling Beverage

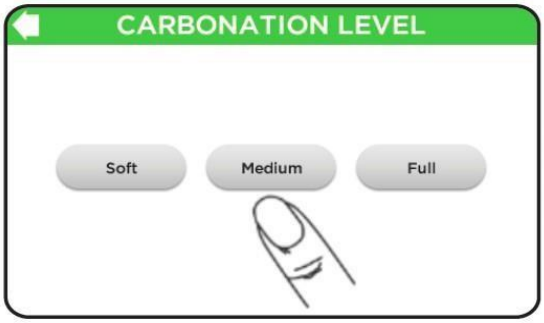


Insert a Lavit Beverage Capsule into the Mix Chamber or Select LAVIT BEVERAGES from the HOME SCREEN.

If you first selected LAVIT BEVERAGES before inserting a capsule the PLACE CAPSULE SCREEN will display. Place your beverage capsule into the mix chamber and close



Select SPARKLING as your beverage water choice.



Choose one of three available carbonation levels: Soft, Medium, or Full.

Press the Lavit Button when ready to dispense your sparkling beverage. The Lavit Button halo will be GREEN.

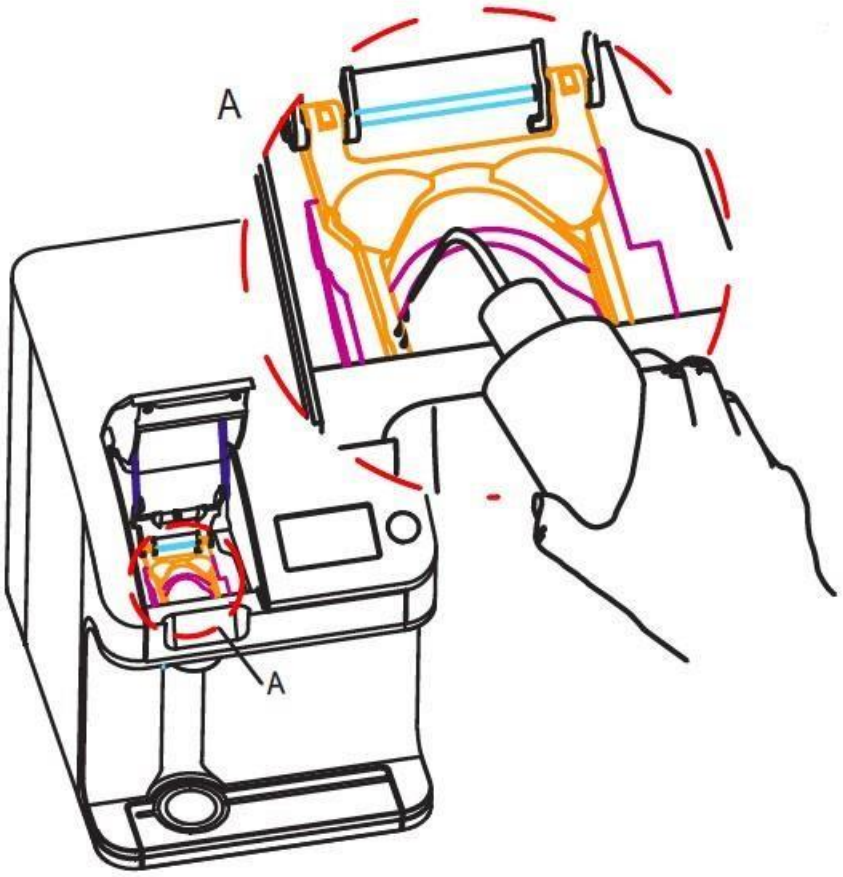
While dispensing the halo will FLASH GREEN. **PRESSING THE LAVIT BUTTON WHILE FLASHING GREEN TERMINATES THE DISPENSE.**

Section 4: Cleaning the Lavit Beverage Dispenser

Weekly cleaning of the mix chamber is recommended to maintain a fully functioning dispenser. On occasion if beverage powder is spilled into the chamber and not immediately cleaned, a buildup of sticky residue may occur. If the buildup prevents the beverage carriage from returning to HOME POSITION the following screen will be displayed:

After displaying the CLEANING SCREEN for a few seconds, the user will be allowed to continue making Lavit beverages of their choice. To clean the Lavit Mix Chamber follow these instructions:

1. Turn off the power to the dispenser using the power switch at the rear of the unit.
2. Please wear latex free sanitary gloves while performing all cleaning tasks.
3. Remove the blue capsule tray and the silicone nozzle from inside the mix chamber.
4. Clean both in hot soapy water.
5. Remove and clean the drip tray assembly in hot soapy water.
6. Place a cup under the beverage outlet.
7. Using the supplied brush sweep out any loose residue into the cup under the beverage outlet.
8. **Using the supplied wash bottle, spray hot tap water on the surfaces highlighted in the drawing below. Repeat as necessary using hot tap water and ensure all surfaces are free from any residue.**

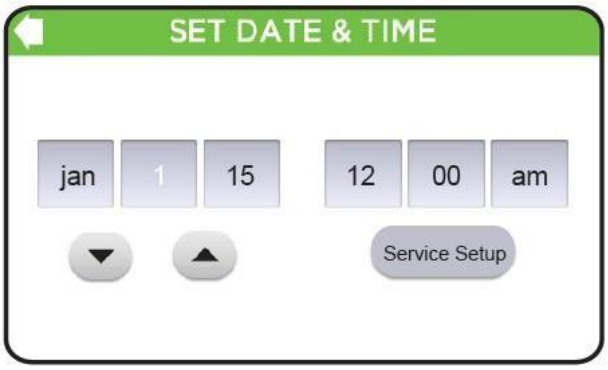


9. Remove cup from under the beverage outlet and empty.
10. Wipe down all interior surfaces of the chamber with an anti-bacterial wipe.
11. Replace the blue capsule tray and silicone nozzle. Wipe down both with an anti-bacterial wipe.
12. Wipe down the front and top of the unit with an anti-bacterial wipe.
13. Wipe down the exterior of the unit with the supplied cleaning cloth.
14. Replace the cleaned drip tray.

Section 5: Service Screens

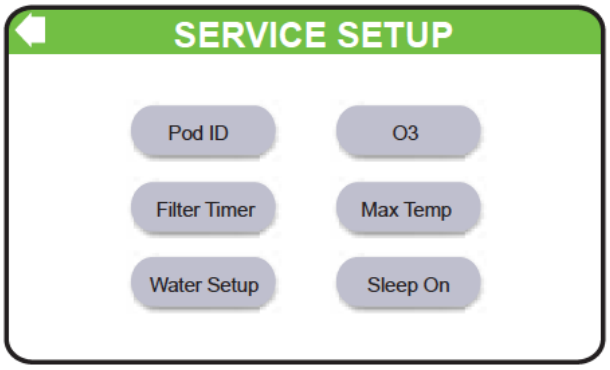
The SERVICE MENU SCREEN is accessed by selecting the SERVICE ICON on the lower left of the HOME SCREEN.

Set the current DATE and TIME by selecting each field to be updated. Toggle up or down to make your entry.



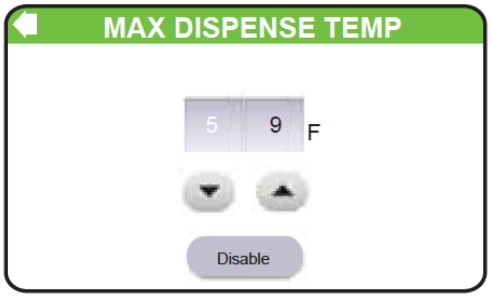
Select SERVICE SETUP when date and time entered to access the PASSWORD SCREEN. Password is 8888.

The SERVICE SETUP SCREEN is displayed when the correct password is entered. There are six (6) features that are accessed from this screen.



Selecting the O3 ICON allows you to set the time that the system will start the ozone disinfection cycle. DEFAULT = 3 am.

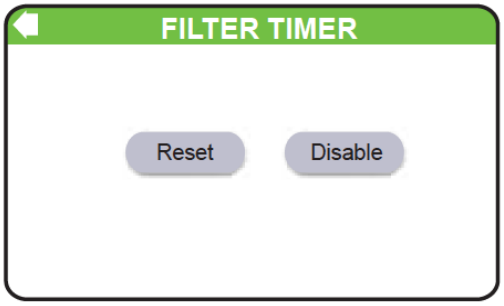
You can manually turn the ozone cycle ON/OFF to manually disinfect the dispenser by using the MANUAL ICON.



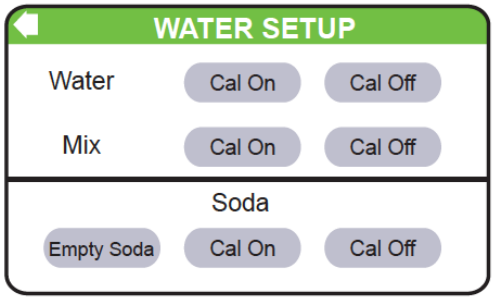
Selecting the MAX TEMP ICON allows you to set the maximum temperature that a beverage can be dispensed. You can also disable this feature from this screen. DEFAULT = DISABLED, 59F.

When this feature is enabled and the temperature is above the max setting the WATER CHILLING SCREEN will be displayed.

The POD or CAPSULE ID setting is disabled and reserved for future use.



The FILTER TIMER is used in POU installations where the tracking of filter life is desired. By enabling this feature and resetting the filter life, the FILTER ICON will appear on the HOME SCREEN and will turn RED after six months from the reset date.
DEFAULT = Disabled



The WATER SETUP ICON is selected to calibrate the three water streams in your Lavit Dispenser. See the Water Calibration procedure on Page 28.

The EMPTY SODA ICON allows the technician to empty the soda tank when required to decommission and move the dispenser. Pressing and holding the icon will open the soda solenoid and will dispense soda water while disabling the replenishment of soda water.

The SLEEP ON / SLEEP OFF ICON allows for the enabling or disabling of the Energy Save mode. When ON the system will sleep after three hours of non-use. A BLANK touchscreen will display during Sleep mode. Touching the BLANK screen will restart the system.

Section 6: Information Screens

During the operation of the Lavit Dispenser various information screens may appear.

This screen appears when a sparkling beverage is selected during a low CO2 pressure condition and the CO2 ICON on the HOME SCREEN in RED.

Change CO2 cylinder.

This screen will appear when the water tanks are below the LOW LEVEL. Typically displayed during system installation.

Wait for tanks to reach LOW LEVEL.

WATER CHILLING SCREEN will be displayed if the MAX TEMP is enabled and the water temperature in the cold tank is above the MAX TEMP set point.

Wait for cold tank to chill down below MAX TEMP.

This screen is displayed whenever the mix chamber is open.

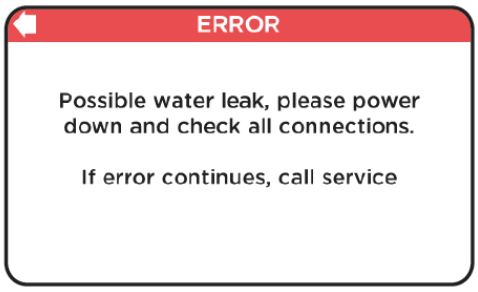
Close mix chamber lid.

Displayed when a Lavit Beverage selection is made and the user has not first inserted a Beverage Capsule.

Open mix chamber and insert beverage capsule.

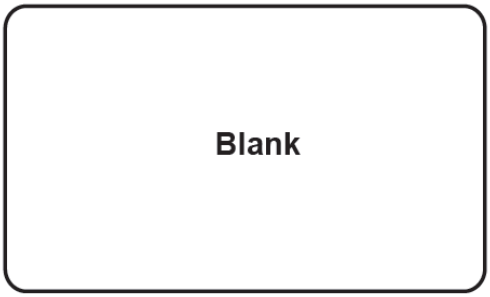
Displayed when the beverage carriage fails to reach the HOME POSITION due to buildup of beverage residue in the mix chamber.

Clean the mix chamber following cleaning instructions.



This screen is displayed when the inlet solenoid is open for more than 5 continuous minutes. The inlet solenoid will close. If the inlet water pressure is low this screen may appear during system installation as the water tanks are filling.

Check for any water leaks. Reset by Power OFF and ON.



The touchscreen will turn off and go dark during SLEEP MODE. To restore touch the screen and the HOME SCREEN will be displayed.

Section 7: Troubleshooting

Potential problems and solutions.

Condition	Possible Solution
Water dripping continuously from the dispense area.	After the dispensing of a sparkling beverage or sparkling water several drops may occur as the sparkling water in the water line heats up and expands. This is normal. Continuously dripping water is caused by foreign material lodged in the soda water solenoid. Remove the soda water solenoid per the instructions on Page xx and disassemble the solenoid to remove any trapped material.
Leaking water from the rear of the unit.	Possible leak issues: First – Check the still water drain plug and then check the inlet water line. If those connections are dry and not the source of the water leak, remove the top cover of the unit. Inspect the connections on the top of the water tanks. Remove the ozone generator to view all connections. Ensure all fittings are tight and dry. Inspect the area around the top insulation seam towards the left side panel. If there is wetness in that area the leak may be from the soda tank seal. Other possible sources of a leak are the soda pump inlet fitting, the inlet solenoid, or the cold tank drain connection. To inspect these areas, remove the back panel per the instructions of Page XX. Inspect the soda pump inlet fitting for leak at the quick connect insert. Inspect the connections to the inlet solenoid. If those connections show no evidence of leaking and water is captured in the area at the bottom of the cold-water tank, the water drain connection to the tank may be the cause of the leak. Remove the insulation from around the water tank drain pipe and inspect. Other possible sources of leaks are the still water and recirculation pump connections and the cooling coil connection running to and from the compressor and condenser.
No Sparkling Water Dispense, CO2 gas only.	If the soda pump is not filling the soda tank properly then CO2 gas will be released at the dispense nozzle when you select a sparkling beverage or sparkling water.

	The following four conditions may exist: 1. The CO2 pressure is too high on the CO2 regulator and the high pressure stops the soda pump from refilling the tank. Check that the regulator setting is 3.5 bar. Purge CO2 from the rear of the unit. 2. Faulty soda pump. To verify that the soda pump is powered on inspect the main PCB. The red plug connection marked PUMP feeds 24V DC to the soda pump. If the red LED adjacent to the PUMP connection is on and the soda pump is not running then it indicates that the pump is faulty and you should change it. 3. An airlock exists in the water line. If the water line to the soda pump has an air lock then the pump will run but not fill the soda tank. To clear an airlock you will need to power down the machine and disconnect the outlet pipe from the soda pump to the soda tank. Turn the machine back on and run the pump to waste until the soda pump discharges without air. Power down, reconnect the water pipe to the soda tank, power up and verify proper operation. 4. A short circuit exists in the level control line. A short between the level probe wires will signal the PCB that the soda tank is full of water. The PCB turns on the soda pump when the signal lines are open circuit. To diagnose this fault unplug the soda tank level control plug from the PCB (yellow plug marked probe). The soda pump should run in this condition. Verify the red LED adjacent to the PUMP connection is on. Replace the yellow probe plug and the pump will stop. Dispense sparkling water. The soda pump should power on and the red LED should be on. If it is not on then there is a short on the signal lines, normally on the cap of the cold tank which can be caused by condensation or a leak. Remove the cold tank insulation cap and dry any condensation.
Dry powder dispense or a large amount of undissolved powder.	This condition will only be present if the mix stream dispense volume is too low. A low mix stream volume can occur under the following circumstances: 1. For a POU installation the inlet water stream pressure has been reduced. If the inlet water is running through a filter ensure that the filter is not clogged with sediment. If a low water pressure exists recalibrating the mix stream may resolve the problem. 2. If the installation is running off of a bottled water supply check the

	bottle. An empty bottle will result in a dry capsule dispense. 3. A faulty mix stream solenoid will cause a dry powder dispense. To check if there is a faulty solenoid, locate on the main PCB the blue plug marked RINSE. Make a beverage. The RINSE solenoid and the MASTER solenoid should come on together and allow water to into the capsule. Both the RINSE and the MASTER plugs on the main PCB have a red LED adjacent to them. If the LEDS light and the solenoid does not open and allow water into the capsule then change the RINSE solenoid. 4. If the silicone dispense nozzle has been dislodged a dry or partial beverage dispense can occur. Ensure that the nozzle is properly positioned.

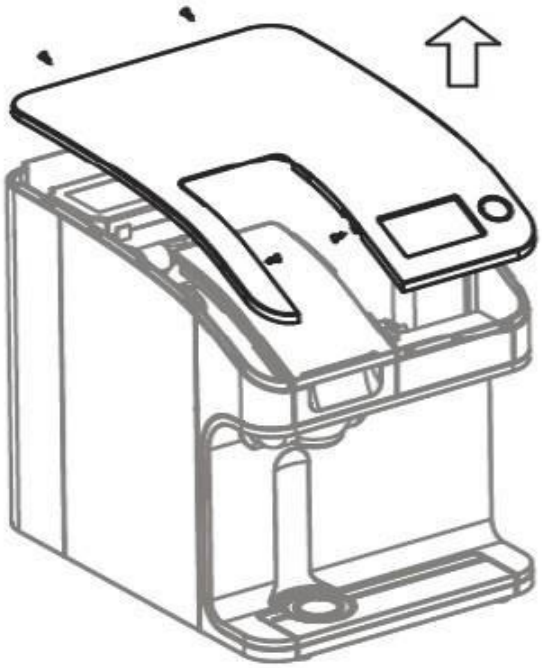
Section 8: Decommissioning the Lavit Dispenser

Before transporting the Lavit dispenser, it must be drained of all water and the CO2 bottle removed.

1. Turn off the water supply to the machine. Dispense a small amount of still water to relieve the pressure in the inlet line. Disconnect the water inlet line.
2. Remove the drip tray. Set aside for repacking.
3. Power OFF the dispenser. Disconnect the Power Cord.
4. Turn the dispenser to gain access to the rear Cold-Water Tank drain plug.
5. Remove the drain plug and empty the cold-water tank into a suitably sized bucket.
6. Replace the drain plug.
7. Turn dispenser and connect the power cord and turn the Power ON.
8. Enter the SERVICE MENU and select WATER SETUP.
9. Place the empty bucket under the water dispense point.
10. Locate the EMPTY SODA icon on the screen. Press the icon until all soda water is dispensed into the bucket. The dispenser will discharge CO2 gas when the soda tank is empty.
11. Turn Power OFF. Disconnect power cord and wrap for repacking.
12. Turn the CO2 regulator to the off position and remove the CO2 bottle. Remove or secure the CO2 regulator for transport.
13. Actuate the CO2 purge valve on the rear of the dispenser until CO2 flow ceases.
14. Repackage the dispenser, drip tray, power cord, and regulator for transportation.

Section 9: Service and Repair

Removing the Top Cover



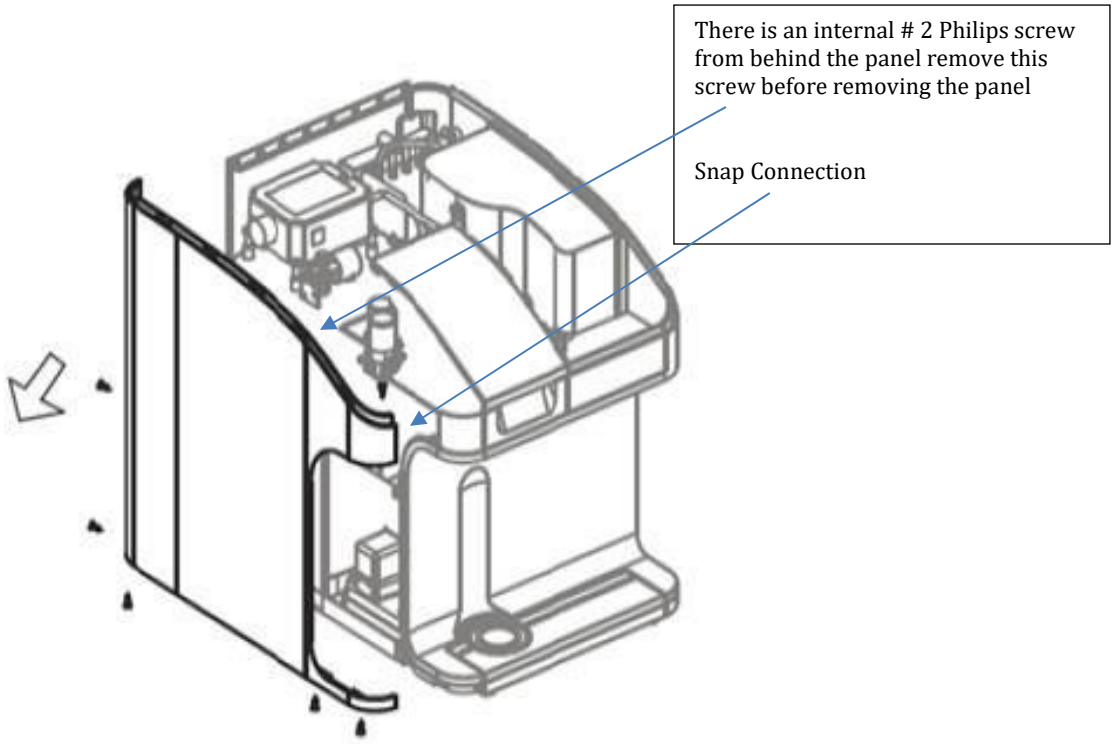
1. Remove the two screws in the chamber internal side walls.
2. Remove the two screws in the upper rear of the unit.
3. Pull the top cover off starting at the back and pulling up and forward.
4. Unplug the connector to the touchscreen PCB and unplug the Lavit Button connector.
5. Set top cover aside.

To reinstall:

1. Connect the touchscreen and Lavit Button leads to their respective PCB's.
2. Press top panel on starting from the front and work towards the rear. Ensure a proper fit with no gaps between the cover and side panels.
3. Fix with the four screws removed in steps 1 and 2 above.

Removing the Side and Rear Panels

Left Side Panel



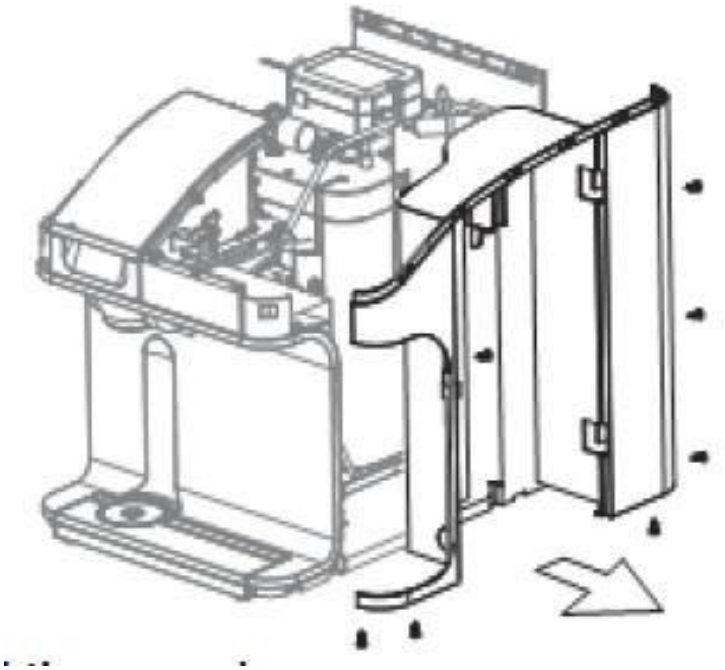
1. Remove the two rear screws. Note that the bottom rear screw is a longer screw that requires to be used on the bottom rear when reinstalling.

2. Remove the three screws under the base.

3. Using a long Phillips head screwdriver, remove the side mix chamber hold down screw located between the left side panel and the mix chamber. The screw is about four inches recessed down the side. Unscrew only to free the panel. The screw will remain in the fitting.

4. Remove the panel. Carefully undo the top front snap fitting while removing panel. When reinstalling ensure the snap connection is made.

Right Side Panel



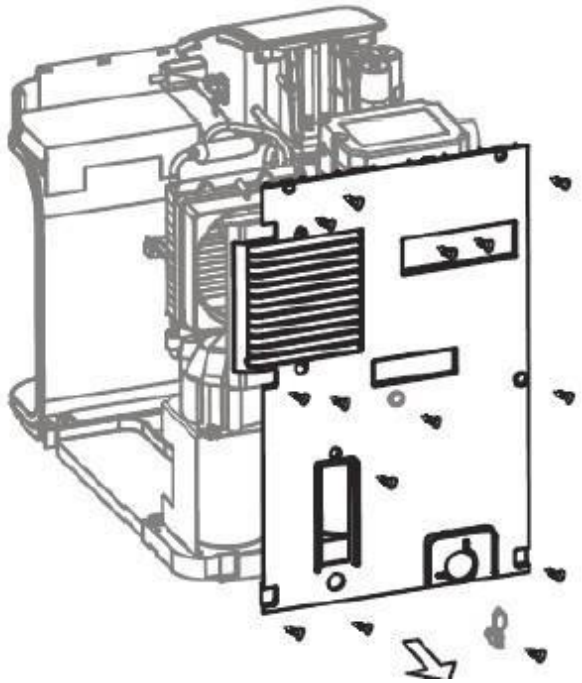
1. Remove the three rear screws. Not that the bottom rear screw is longer than the others and should be reinstalled in the bottom slot.

2. Remove the three base screws.

3. Remove the side panel screw found near the magnet on the inside front of the side compartment.

4. Remove the panel. Carefully undo the top front snap fitting while removing panel. When reinstalling ensures the snap connection is made.

Rear Panel



1. Remove power cord and inlet water line. Drain the cold-water tank. Set the drain and drain hold down screw aside.

2. Remove the top cover. (2 top screws)

3. Remove the left and right-side screws. (2 on each side)

4. Remove the fan housing screws which are recessed on the top and bottom of rear air louver. (2)

5. Remove the Power Switch and the CO2 purge screws. (3)

6. Remove the center screw. (1)

7. If the side panels are not already removed, remove the rear side panel screws on the underside of left and right-side panels. This provides freedom to swing the side panels away to clear the rear panel.

8. Remove the rear panel. The panel is pressed fitted onto the fan housing. Use enough force to dislodge.

Appendices: Schematics and Parts

Appendix A: Flow Diagram

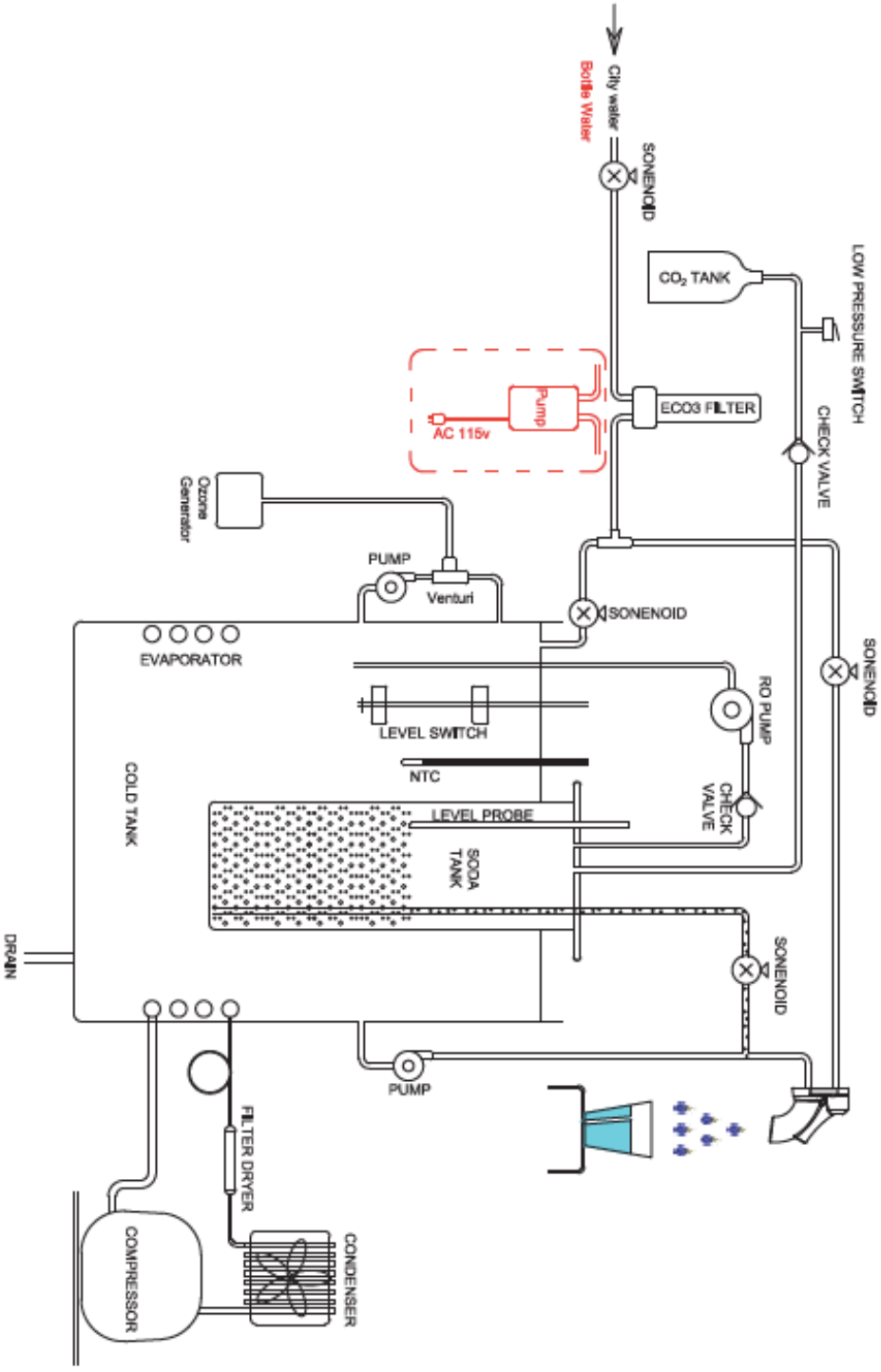
Appendix B: Electrical Schematic 1

Appendix C: Electrical Schematic 2

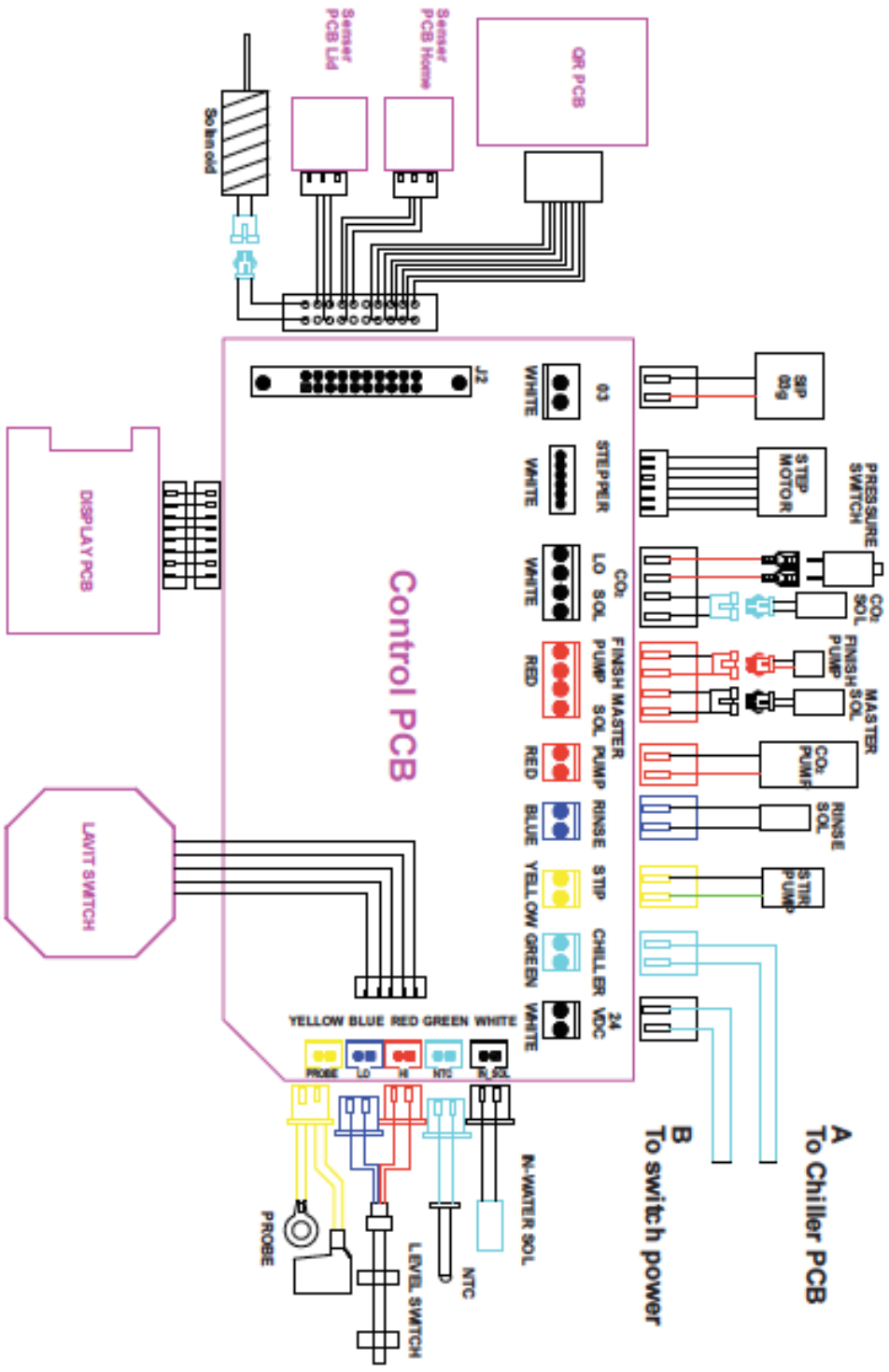
Appendix D: Exploded Parts List

Appendix E: Wetted Parts List

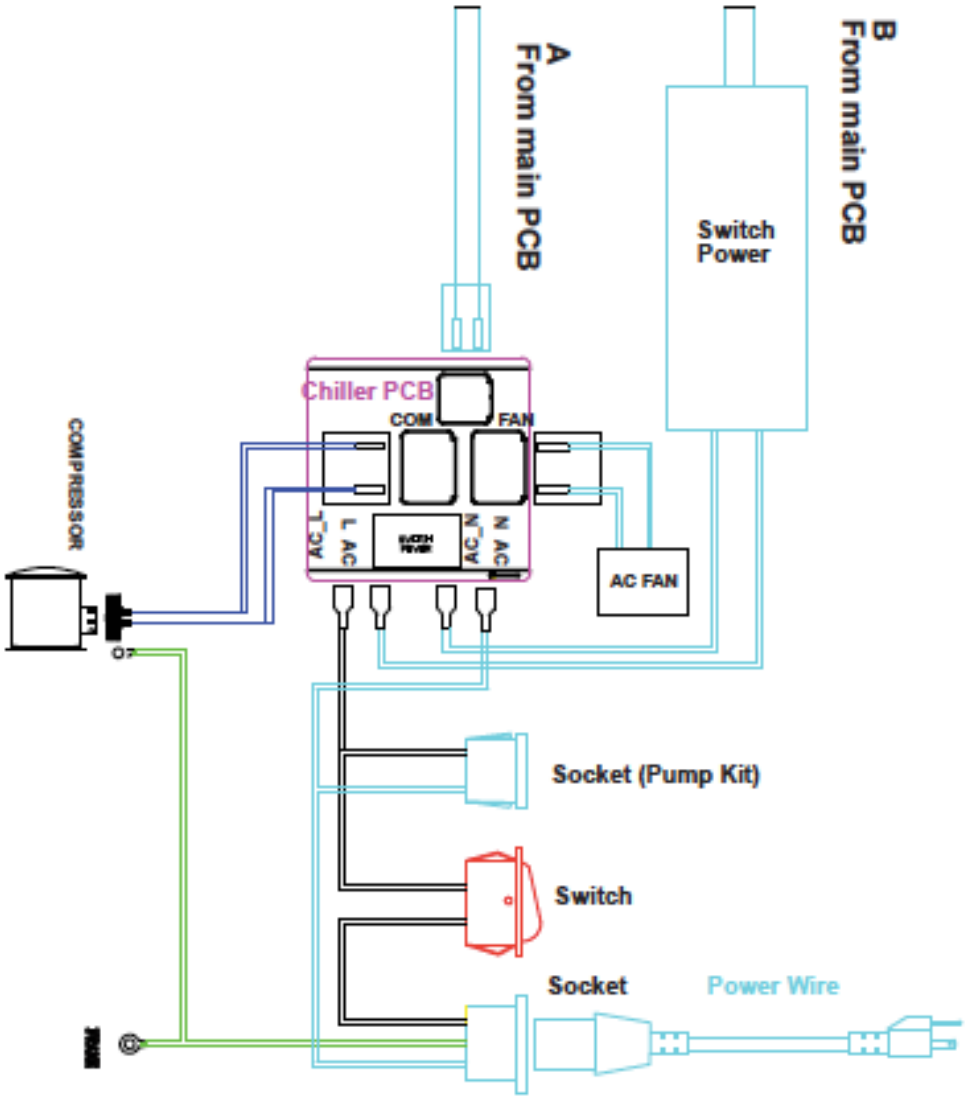
Appendix A – Flow Diagram



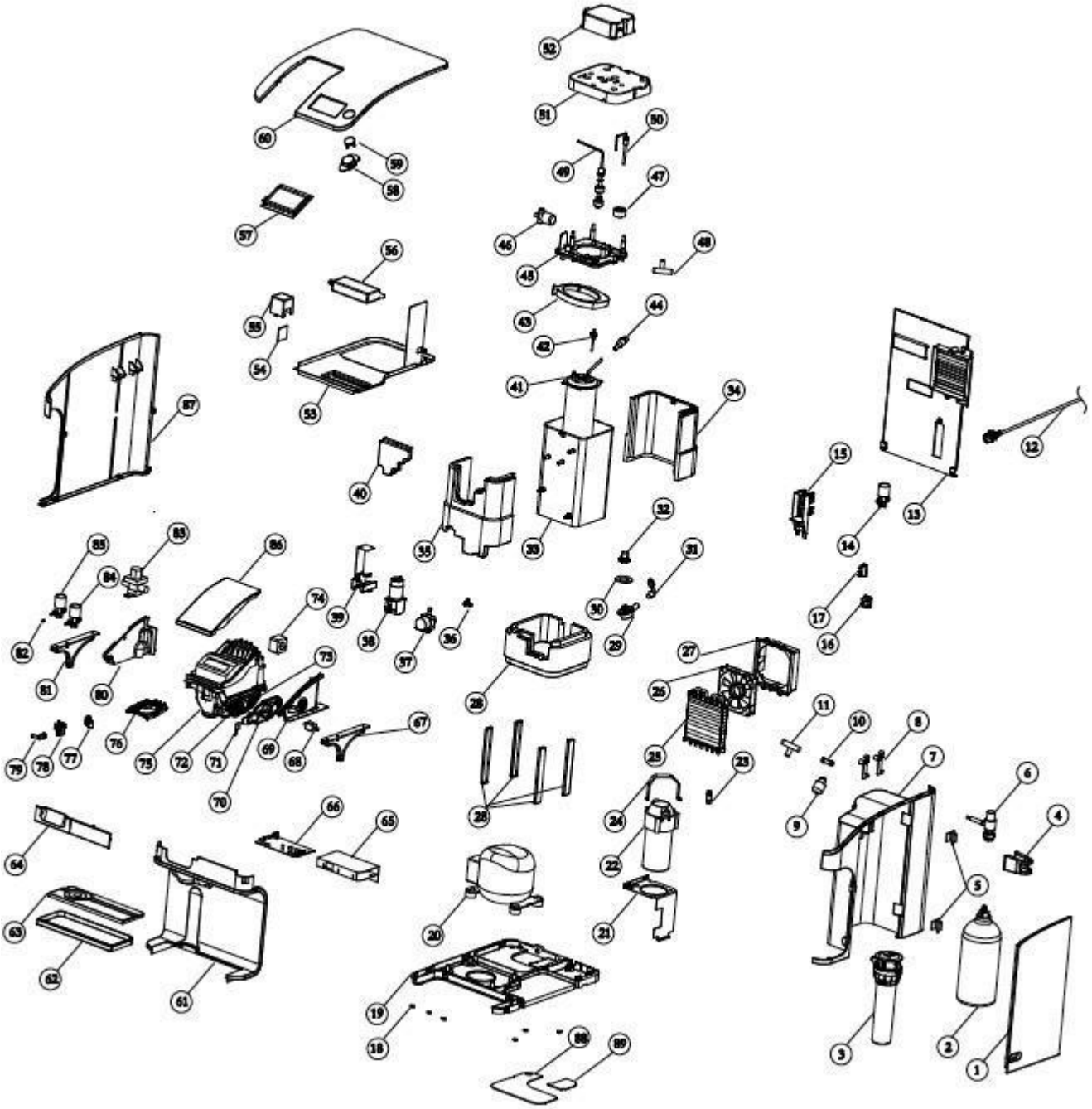
Appendix B – Electrical Schematic 1



Appendix C – Electrical Schematic 2



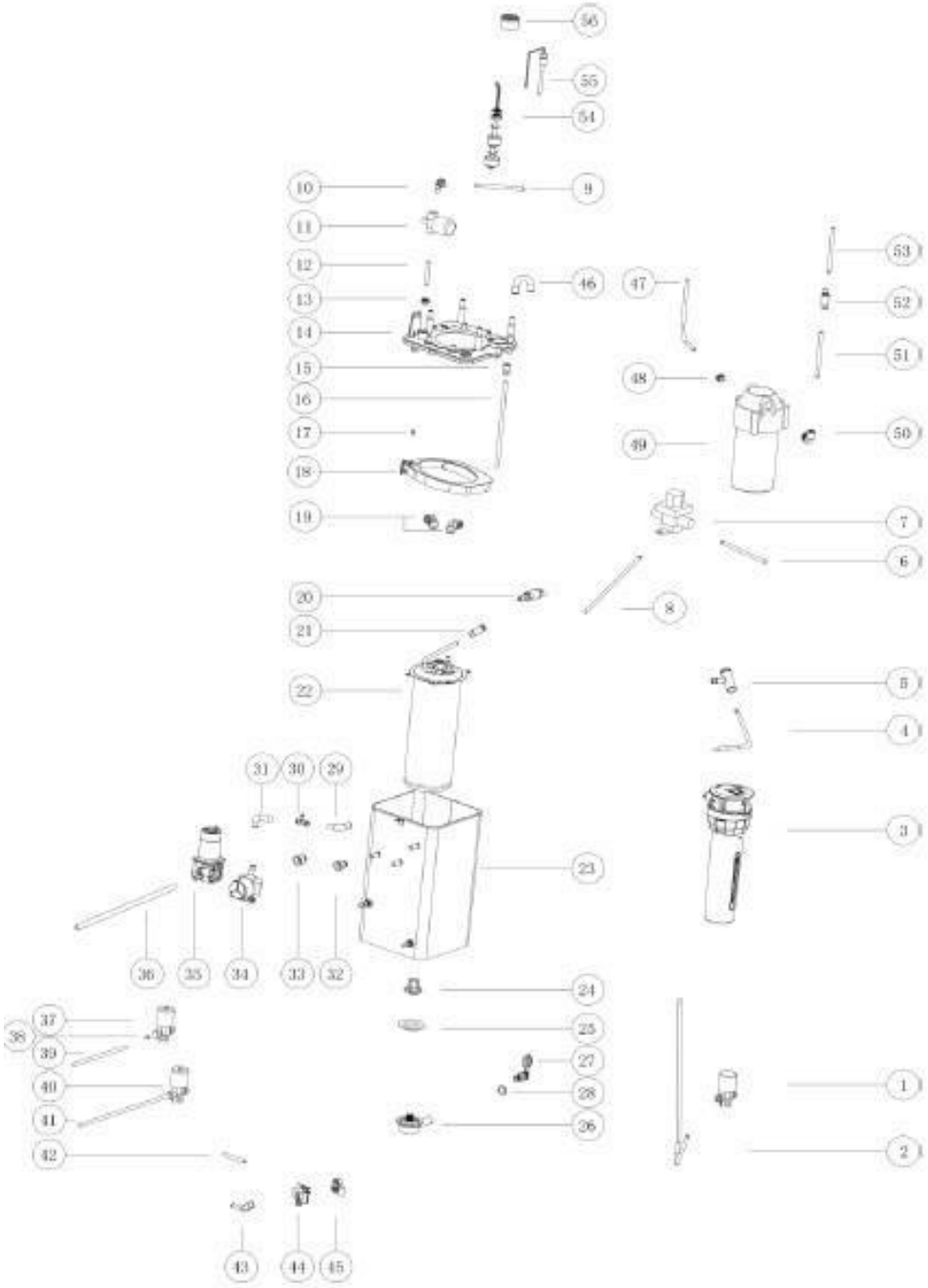
Appendix D – Exploded Parts Detail



LAVIT

No.	Part Name	Part Number	No.	Part Name	Part Number	No.	Part Name	Part Number
1	Door	ABS007	31	Drain plug	HDW007	61	Front panel	ABS017
2	CO2 bottle	CON001	32	Drain nut	HDW003	62	Drip tray	ABS014
3	ECO filter (Option)	POU003	33	Cold tank	RFG003	63	Drip tray cover	ABS015
4	Regulator holder	ABS008	34	Back polyfoam	ING003	64	Decorated panel	ABS016
5	Door hinge	ABS028	35	Front polyfoam	INS002	65	Main PCB cover	ABS020
6	Regulator	MCH006	36	Venturi	HDW007	66	Main PCB	ELE011
7	Right panel	ABS009	37	Clr pump	REG006	67	Brewer right support	ABS018
8	Pipe clamp	HDW018	38	Still pump	REG007	68	Locking solenoid	MCH009
9	Press switch	MCH019	39	Still pump bracket	ABS012	69	Brewer right wall	ABS019
10	Check valve	MCH015	40	Small polyfoam	INS004	70	Gear cover	ABS020
11	T piece	HDW015	41	Soda tank assy.	RFG004	71	Sensor PCB	ELE008
12	Power cord	ELE015	42	Probe	MCH022	72	Gear w/o magnet	MCH011
13	Back panel	ABS010	43	Float valve	MCH002	73	Gear w/ magnet	MCH010
14	Main solenoid	MCH008	44	release valve assy.	MCH022	74	Stepper motor	MCH012
15	Switch bracket	ABS011	45	cold tank cover	ABS004	75	Brewer assy.	BRW001
16	Socket	ELE007	46	Fill solenoid	MCH004	76	Cutter tray	ABS021
17	on/off switch	ELE006	47	Carbon filter	PUR001	77	Faucet	HYD001
18	Rubber feet	ELE016	48	T piece for water in	HDW014	78	Faucet bracket	ABS022
19	Base	ABS001	49	Double level switch	MCH005	79	Soda out silicon	HDW006
20	Compressor	RFG001	50	NTC	ELE003	80	Brewer left wall	ABS024
21	Soda pump bracket	HDW020	51	Top polyfoam	INS005	81	Left brewer support	ABS023
22	Soda pump	RFG002	52	O3 generator	PUR002	82	Flow resistor	MCH020
23	CO2 check valve	MCH015	53	Mid frame	ABS026	83	Mix stream reg	MCH015
24	Soda pump fixer	HDW021	54	Relay PCB	ELE002	84	Mix solenoid	MCH013
25	Condenser	RFG005	55	Relay PCB housing	ABS003	85	Soda solenoid	MCH014
26	Fan	MCH007	56	Power supply	ELE001	86	Hatch	ABS025
27	Fan bracket	HDW017	57	Display PCB	ELE005	87	Left panel	ABS013
28	Low polyfoam	INS001	58	Button assy.	ELE004	88	Base pad 1	ABS026
29	Water way	HDW001	59	Button cover	ABS005	89	Base pad 2	ABS027
30	Drain nut sealing	HDW002	60	Top cover	ABS006	90		

Appendix D – Exploded Wetted Parts Detail



#	Part	Material	Model	No.	Part Description	Material	Model
1	Main solenoid	/	MCH008	29	Pipe frm venturi to cld tank	Silicon	
2	Pipe fm main sol to filter	1/4 LLDPE		30	Venturi	PP H1315	
3	ECO filter (Optional)	/		31	Pipe frm clr pump to venturi	Silicon	
4	Pipe fm filter to Tconnector	1/4 LLDPE		32	Pipe frm clr pump to cld tank	Silicon	
5	T connector	DM		33	Pipe frm still pump to cld tank	Silicon	
6	Pipe fm T part to Mix reg	1/4 LLDPE		34	Circulation pump	/	REG006
7	Mix stream regualtor	/	MCH015	35	Still pump	/	REG007
8	Pipe fm mix stream to mix sol	1/4 LLDPE		36	Still water silicon pipe	Silicon	
9	Pipe fm T connector to fill sol	1/4 LLDPE		37	Soda solinoid	/	MCH014
10	Elbow connector from fill sol	DM		38	Flow resistor	PP H1315	
11	Fill solenoid	/	MCH004	39	Soda pipe out	1/4 LLDPE	
12	Pipe fm fill sol to cold tank	1/4 LLDPE		40	Mix stream solinoid	/	MCH013
13	Quick connector	DM		41	Mixstream pipe out	1/4 LLDPE	
14	Cold tank cover	[illegible]	ABS004	42	Mixstream silicon pipe	silicon	
15	Silicon connector to still pipe	Silicon		43	Soda silicon pipe out	silicon	HDW006
16	Still water pipe in cold tank	1/4 LLDPE	MCH003	44	Faucet bracket	PP H1315	ABS022
17	Sealing for float valve	Silicon	HDW004	45	Faucet	Silicon	HYD001
18	Float valve	[illegible]	MCH002	46	Pipe frm cld tank to soda pmp	Silicon	
19	Elbow connectors to soda tank	DM		47	PE pipe frm cld tank to so pmp	LLDPE	
20	Release valve assy.	[illegible]	MCH001	48	Quick connector soda pmp in	DM	/
21		Silicon		49	Soda pump	/	RFG002
22	Soda tank	sus 304	RFG004	50	Albow fit for soda pump out	DM	
23	Cold tank	sus 304	RFG003	51	Pipe frm so pum to check valve	LLDPE	
24	Drain nut	POM	HDW003	52	Soda check valve	DM	
25	Drain sealing	silicon	HDW002	53	Pipe frm soda pup to soda tank	LLDPE	
26	Drawin water way	POM	HDW001	54	Double level switch	/	MCH005
27	Drain plug	PP H1315	HDW007	55	NTC	SUS304	ELE003
28	Drain plug sealing	Silicon		56	Carbon Filter	ABS PA707	PUR001