

# Troubleshooting Guide LB115

## Series Lavit Dispenser



**FOR TECHNICAL  
ASSISTANCE PLEASE CALL  
1.855.750.5377**

# Table of Contents

## Contents

Introduction.....	3
Water Flow Diagram .....	4
PCB Electrical Diagram .....	5
Cooler Electrical Diagram.....	6
Beverage Dispense Splatters/ Multiple Streams.....	7
Your Beverage Chamber May Require Cleaning Error.....	8
Close Beverage Lid Error when Brewer Closed .....	10
“Possible Water Leak” Error Screen .....	11
No Soda Water – Gas Only .....	12
Troubleshooting the Soda Water Circuit.....	13
Replacing the Soda Probe.....	16
Soda Solenoid Replacement .....	19
No Still Water Dispense .....	21
Water Stream Calibration.....	24
CO2 LEAK.....	26
MACHINE RESETTING.....	28
Water Tank Not Filling at Start Up.....	29
Touchscreen Issues.....	33
Blank or Black Touchscreen .....	33
All White Touchscreen or Flickering/Diminished Colors .....	33
Touchscreen Recalibration .....	34
Water Chilling Screen .....	35
Unit is Not Cooling or Chilling.....	36
Large Amount of Water Remains in Capsule After Dispense .....	37
Draining & Decommissioning The Lavit Cooler.....	38
Troubleshooting .....	39

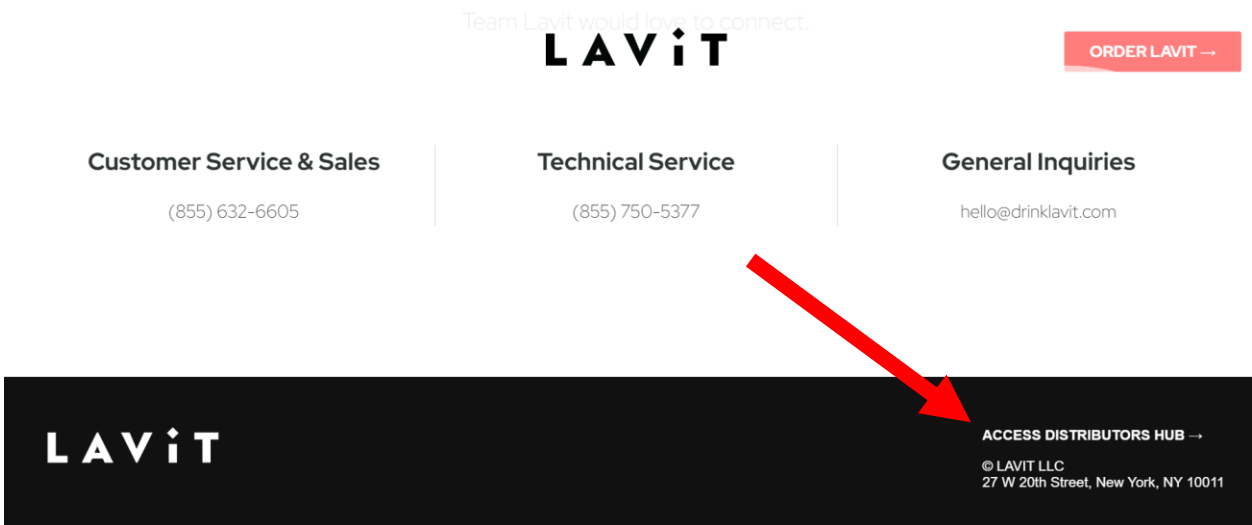
# Introduction

The purpose of this manual in conjunction with the LB115 series service manual is to ensure that technicians are provided with the necessary information and instruction needed to address any concern or issues that may come up during the life of the Lavit Beverage Dispenser.

## “DID YOU KNOW”

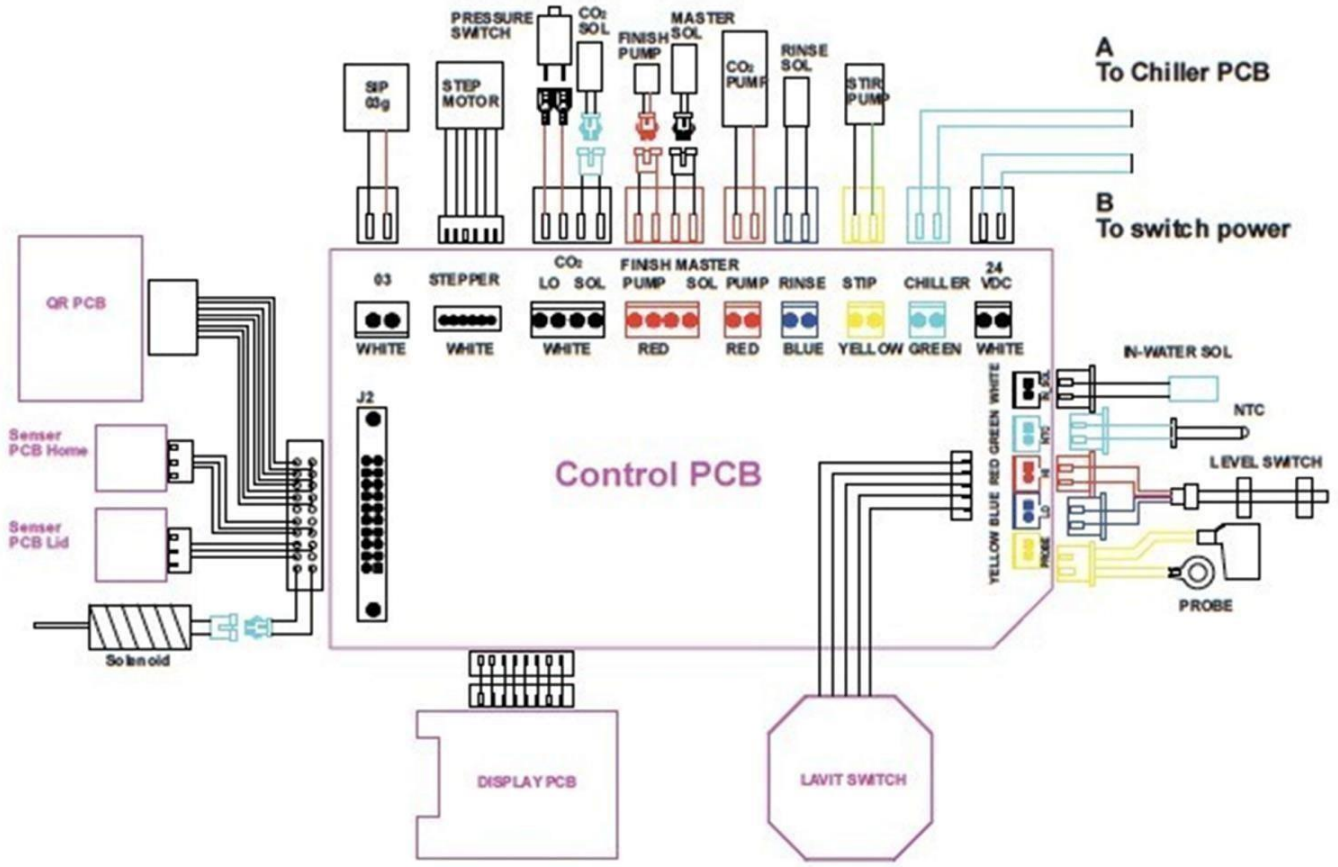
All our technical documents and videos can be accessed anywhere using your smart phone, tablet, laptop or PC. See the instructions below!

Go to <https://www.drinklavit.com> click on access distributor hub on the bottom of the page. Then select technical documentation and you will see our service manual, troubleshooting guide, part order form as well as some videos to help with servicing your Lavit machine.

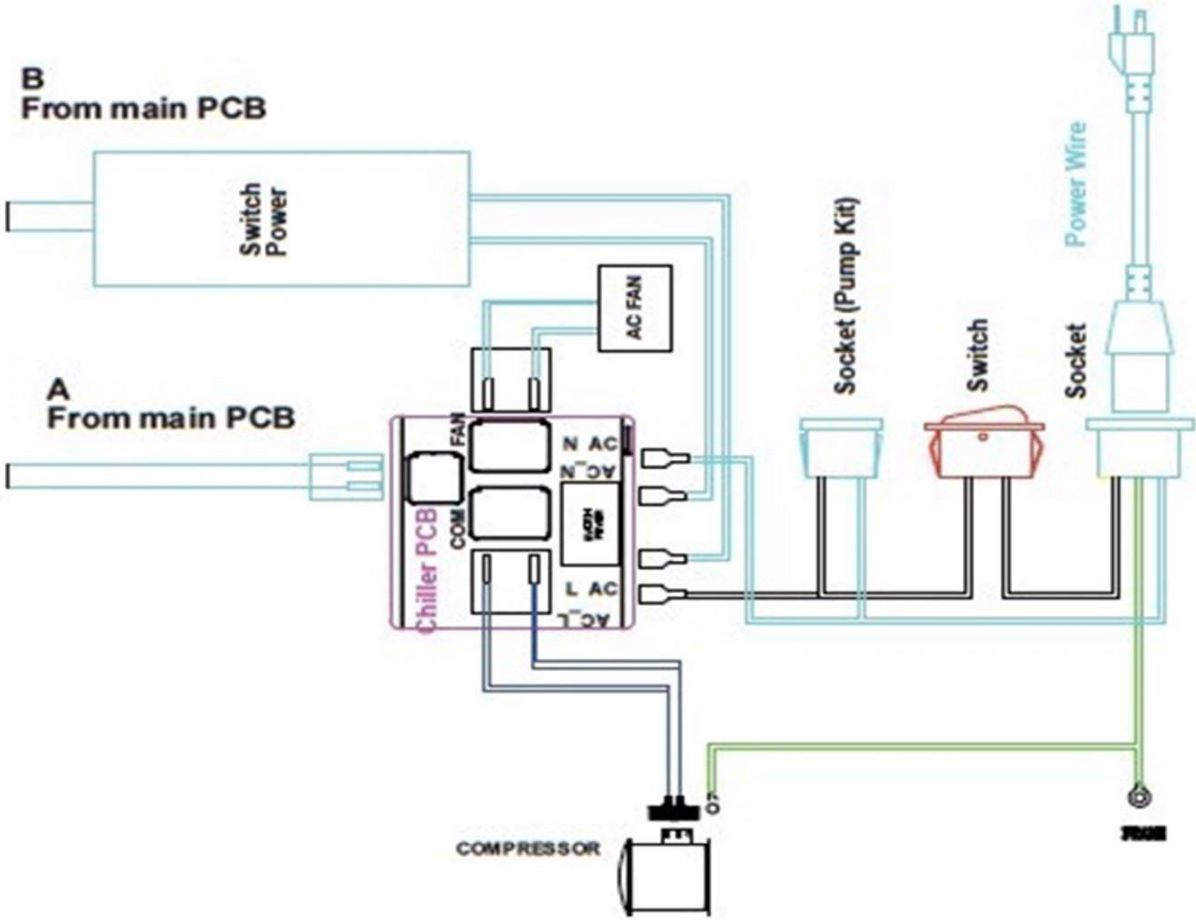




# PCB Electrical Diagram



# Cooler Electrical Diagram



# Beverage Dispense Splatters/ Multiple Streams

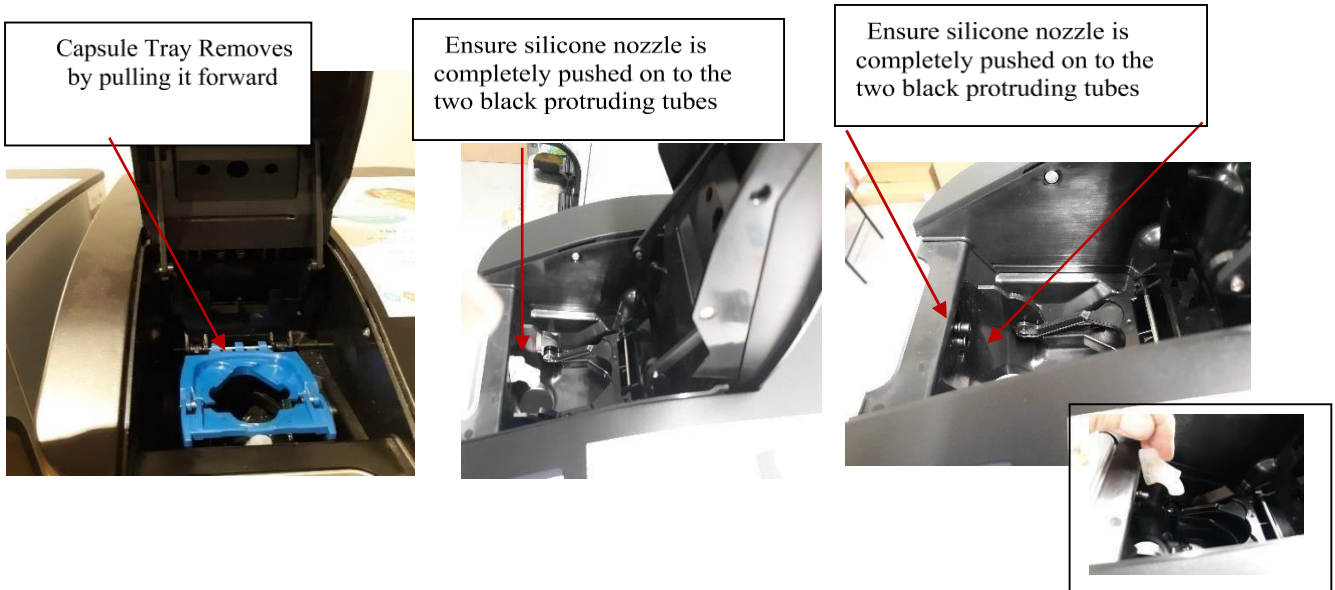
Issue:

When making a Lavit beverage the dispense stream is broken up and several streams may be present, and the cup may overflow.

Solution:

This situation is usually the result of one of the conditions below.

1. Verify that the silicone nozzle inside the brewer is present and that it is firmly attached to the water outlet fittings.
2. If water is also present in the capsule after the dispense cycle, then recalibrate the mix stream. Recalibrate other streams if necessary.
3. Clean the chamber and verify the full rotation of the capsule lifting mechanism. Remove the blue capsule tray. Pull the linkage attached to the top of the chamber towards you. Reach down under the linkage and grasp the capsule lifting mechanism (solid black plastic with a semi-circle cut out). Rotate the mechanism forward to the full 90-degree position. Push the mechanism all the way back down and repeat 3 times, ensuring it moves



# Your Beverage Chamber May Require Cleaning Error

## Issue:

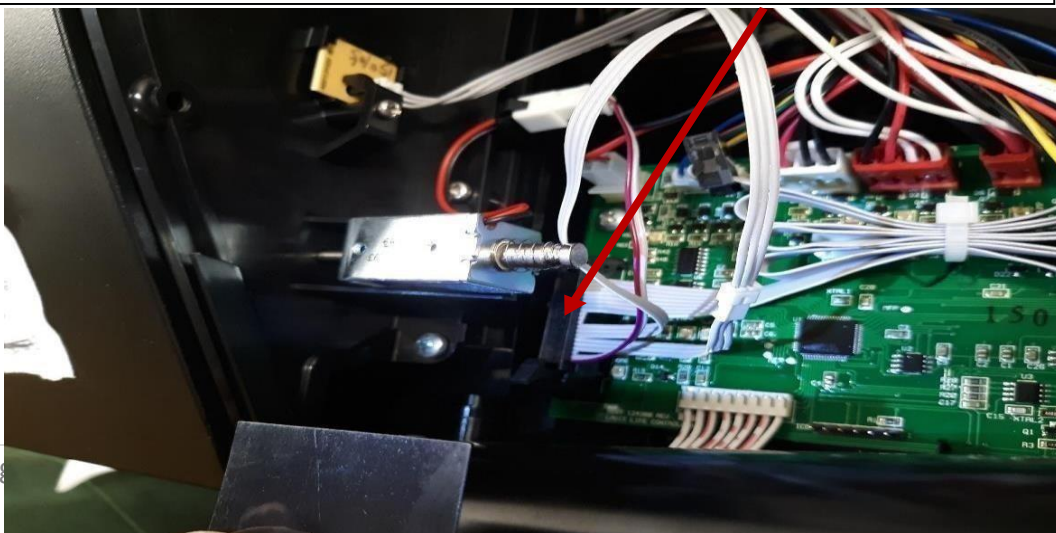
When making a drink the “Your beverage chamber may require cleaning” screen appears.

## Solution:

*There are two reasons why the error appears.*

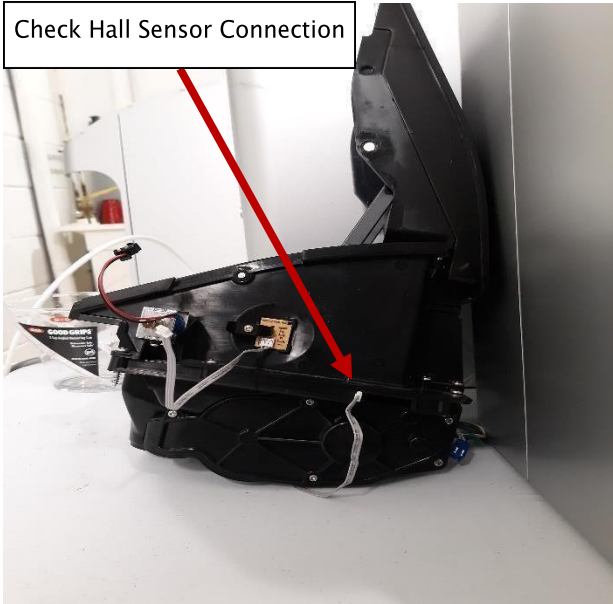
1. The brewer is designed so that after a beverage is brewed the capsule lifting mechanism returns fully to the “Home” position. A Hall Sensor is installed in the unit to verify that the mechanism has returned home. If the mechanism does not return to the Home, then your beverage chamber may require cleaning screen displayed. The normal cause for this to occur is that there has been a beverage build up in the chamber preventing the mechanism to fully return Home. Remove all build up in the chamber to fix this issue.
2. The second reason the screen appears is due to a faulty Hall Sensor or faulty connection. Remove the top panel of the unit. Locate the Main PCB board under the black plastic shield on the front right of the machine. On the far left of the board, locate the black connector attached to the grey ribbon cable. Ensure the black connector is properly seated onto the Main PCB board. Remove, reinstall, and ensure the two locks are secure. If that does not resolve the issue, follow the ribbon lead going to the back bottom of the brewer. Locate the secondary connection to the Hall Sensor. Ensure that the secondary connection is properly seated. If that does not resolve the issue, then replace the Home Hall Sensor located in the brewer gearbox.

ALWAYS- Check the connections on the Main PCB. Ensure the black ribbon connector with the grey wires are properly snapped in place. It is a good practice is to remove and reset this connection, ensuring the side clips are properly snapped in place

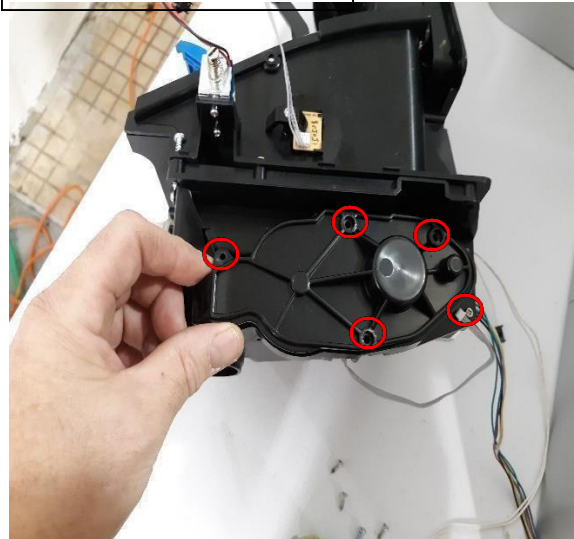


Reference pictures for changing the Brew Chamber Hall/Home sensor

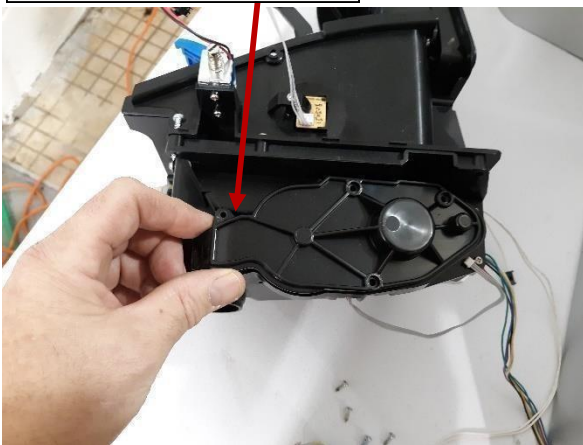
Check Hall Sensor Connection



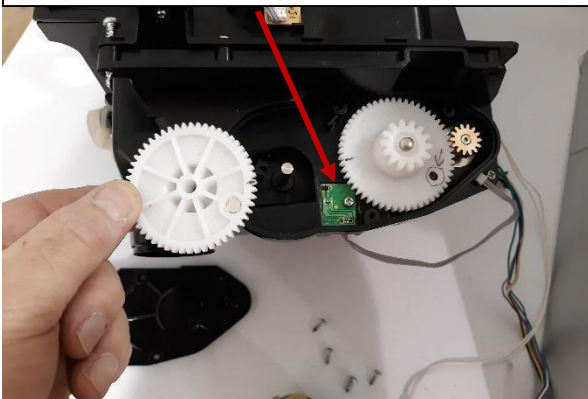
Remove 5-#1 Philips



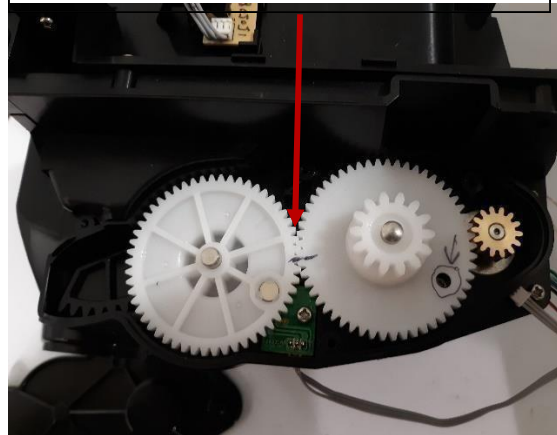
Remove Gear



Remove Gear to gain access to Hall Sensor.



Mark Gears to ensure proper placement when re-installing.



Reinstall all components

in reverse order and test all functions

# Close Beverage Lid Error when Brewer Closed

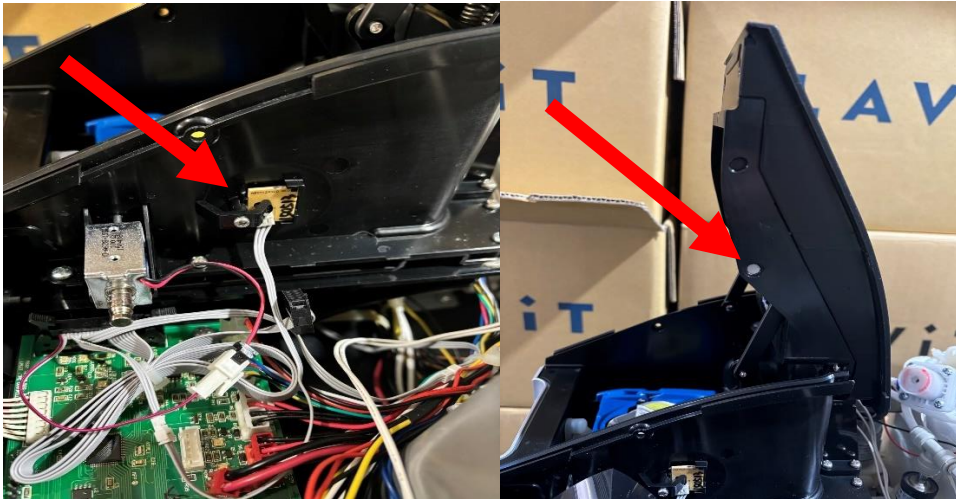
## Issue:

The touchscreen displays a “Close Beverage Lid” message, but the brewer lid is in the closed position.

## Solution:

The close brewer message will be displayed when the brewer lid is closed under three circumstances:

1. Ensure that the brewer magnet is present. Open the brewer and locate the magnet on the right hand outside wall on the brewer lid. It will be a small 1/4" metallic disc pressed into the external side wall. If the magnet is not present, insert a replacement.
2. The ribbon connector is loose on the main PCB. Remove the top panel cover. Pull back the plastic cover over the main PCB located on the front right of the unit. Verify that the black ribbon connector on the far left of the PCB is firmly attached and the two locks are in place. Disconnect and reconnect as necessary.
3. If neither of the above clear the error check the Hall Sensor connection to the ribbon cable. With the top panel removed locate the magnet and Hall Sensor attached to the external wall of the brewer 1st ensure the magnet is in place. If not replace it. Then make sure the sensor lead is properly connected to the main ribbon cable. If it is and the error remains, then replace the Hall Sensor.



# “Possible Water Leak” Error Screen

## **Issue:**

During start up during normal operation the unit will display "A Possible Water Leak" error message screen.

## **Solution:**

This error message appears when the inlet solenoid to the unit has been open for more than five minutes. Under normal circumstances tank filling or refilling should not take more than five minutes. If there was a major water leak inside the unit then the unit would shut down until a repair is made. A false error message will occur under the following circumstances:

1. A plumbed in unit with low inlet water pressure. If the water pressure going into the unit is less than 30 psi, then the 5-minute cycle could time out and the error message will appear. Turn the unit off and restart to clear the error. Dispense a cup of water to reopen the inlet solenoid. This may happen frequently during a new install since the amount of water necessary to fill the tanks may exceed the inlet water line's capacity of 5 minutes. Restart and clear error. Dispense water to open solenoids.
2. A bottled water unit with a Flo-Jet or Lavit pump will show this error if the bottle is empty or the pump is not on. Check to make sure your water bottle has adequate water remaining in it and that the pump is powered on. Replace bottled water if needed. Turn off the unit and restart. Dispense two cups of water making sure the pump is on. This will clear any air blocks in the line and the tanks should be refilled as normal.
3. The water tanks are not filled due to a solenoid or float issue. See water tank not filling at start page.

# No Soda Water – Gas Only

## Issue:

When the user selects soda water or a soda beverage no soda water is dispensed just CO2 gas. This may happen all the time or on occasion.

## Solution:

The soda tank is not refilling properly. There may be an air lock in the inlet water line to the soda tank which the soda pump cannot overcome.

This usually happens on the installation of a unit when the tech turns the CO2 gas on before allowing the soda pump to start pumping water into the soda tank. To resolve:

1. Turn off the regulator
2. Relieve all gas pressure through the purge valve
3. Turn off and restart the machine
4. Dispense a full cup of cold water
5. Let the soda pump refill the tank (5 to 10 minutes)
6. Turn on CO2.
7. Before going on with trouble shooting try the above process once more.
8. If this does not correct the issue follow trouble shooting the soda circuit on pages



## Troubleshooting the Soda Water Circuit

### **Problem:**

When a user selects sparkling water, the unit dispenses just CO<sub>2</sub> gas. This may happen periodically, or it may happen continuously.

### **Issue:**

The soda tank is not refilled properly when the water level in the tank is low.

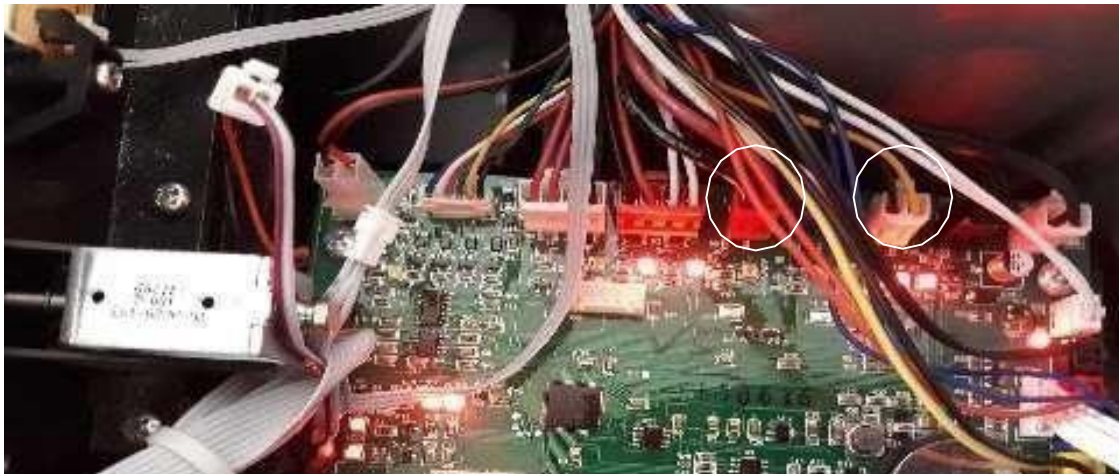
### **Root Cause:**

Air block in the soda water inlet line or a faulty soda level probe circuit.

### **Troubleshooting Procedure:**

1. Remove the top cover panel but keep the touchscreen and Lavit button connectors attached.
2. On the main PCB located on the front right of the unit under the plastic shield, locate the soda probe lead connector. The connector will be the yellow connector found on the front right-hand side of the unit closest to you. It will have yellow and black wire attached.
3. Locate the soda pump connector. The connector will be a red connector along the top of the PCB located in the middle (5th from right or left). It will have red and black wire attached.
4. Inboard to the soda pump connector on the PCB a RED LED illuminates when power is applied to the Soda Pump. Dispense two soda waters. Watch to see if the RED LED illuminates. If the RED LED does not illuminate proceed to STEP12.
5. If the RED LED comes on verify that water is being pumped to the soda tank. This can be verified by the cycling on and off the inlet and cold tank solenoids which will also have RED LEDs cycling off and on as well.
6. If the soda pump RED LED is illuminated and not cycling on and off the solenoids then an air block is present.
7. Turn the CO<sub>2</sub> regulator to off by turning counterclockwise until the knob cannot turn any more. Ignore the "Off" on the regulator label. Turn past that to fully turn the pressure off.
8. Relieve all gas from the system by opening the purge valve on the upper rear of the unit.
9. Turn the unit off. Power the unit on. Dispense a half of cup of still water by pressing the LavitButton.
10. Verify that the soda pump comes on (RED LED illuminates). Verify that the water is flowing to the soda tank (Inlet and Cold Tank Solenoid RED LEDs cycle on and off).

11. Once the soda tank fills (soda pump RED LED will turn off), set the CO2 pressure to 3.5 bar. Dispense two medium soda waters to ensure that the soda pump comes on and water is being pumped into the soda tank. Proceed to Step 23.
12. Disconnect the yellow soda probe connector. Verify that the soda pump comes on (RED LED will illuminate). Verify that water is being pumped into the soda tank by watching for the Inlet and Cold-Water tank solenoids cycle on and off (RED LEDs will illuminate). Reconnect the connector. Verify that the soda pump immediately turns off.
13. Dispense two soda waters. If the soda pump does not power on, then a faulty soda probe circuit exists. Power the unit off.
14. Remove the ozonator from the top of the cold tank (Blackbox connected by 4 screws).
15. Locate the yellow wire leading to the spade connector attached to the probe. Disconnect the spade connector.
16. Cut away the insulation foam around the probe and save the insulation.
17. Using an 11/16" socket unscrew the probe. Use pliers if a socket is not available.
18. Remove the O-ring gasket from the old probe and place on the replacement probe if the replacement probe does not have an O-ring.
19. Install the replacement probe. Replace the foam insulation.
20. Reconnect the spade connector.
21. Reinstall the ozonator.
22. Power on the unit. Dispense a half cup of still water. Verify that the soda pump comes on and that the soda pump is pumping water.
23. Reinstall the top cover panel.



Purge Co2  
Completely,  
using the Purge  
valve on rear of

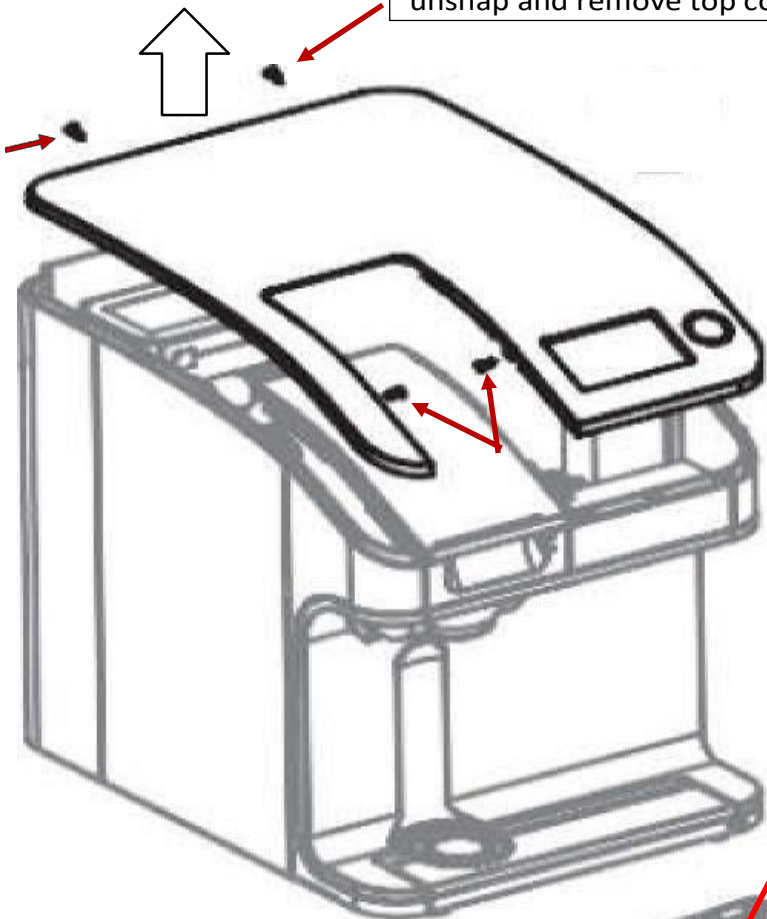


Turn off  
regulator



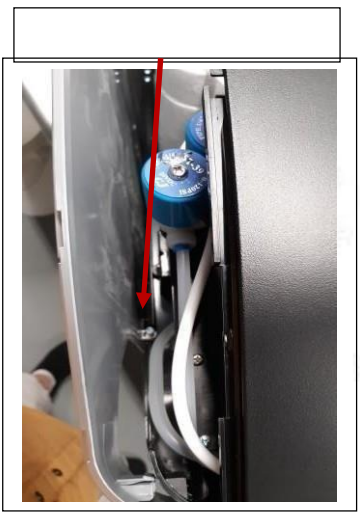
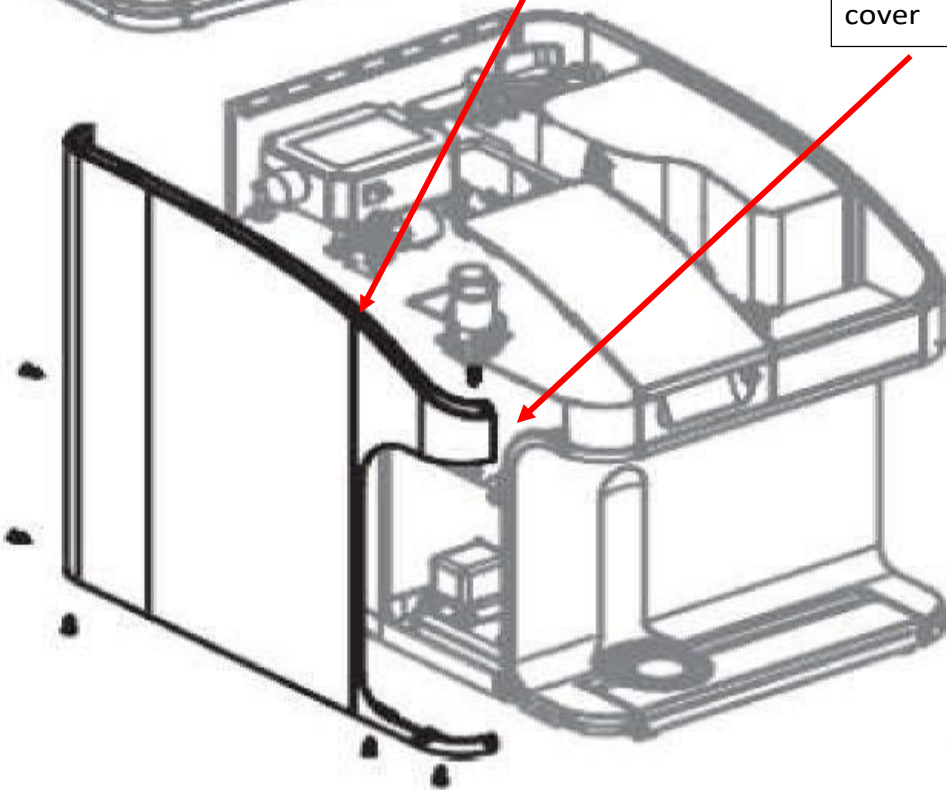
# Replacing the Soda Probe

Step -1 Open the beverage lid remove the 4-screws shown below. Then lifting upwards in the center rear section of the top cover, unsnap and remove top cover



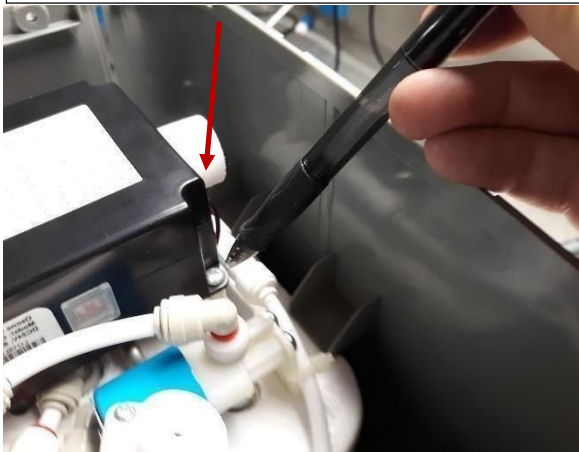
Step -2 Remove all Screws shown in diagram below.  
Then Look Over top edge of panel to locate the internal side panels screw Using Long # 2 Phillips bit remove screw before removing side cover. See Pic # 1

Release plastic snap before removing side cover



Step 3 -Remove the four screws,  
one on each corner holding O3  
Generator/ Ozonator in place.

The O3 Generator/ Ozonator  
assembly is located at rear of  
cooling tank



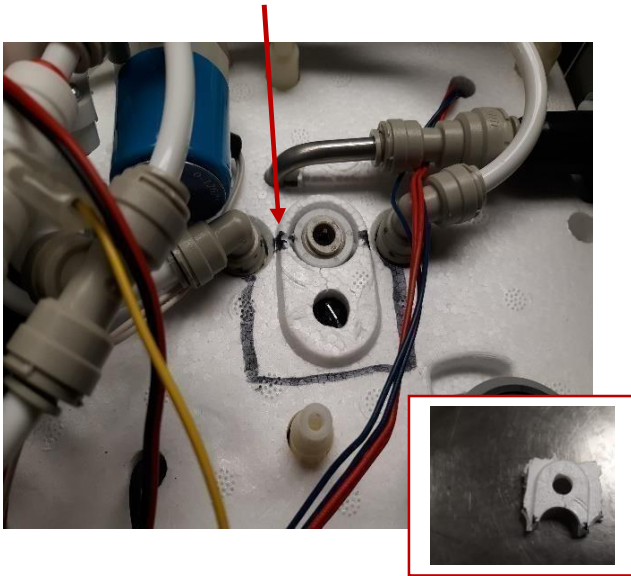
Step - 4 tilt the O3 Generator/  
Ozonator assembly to the one side



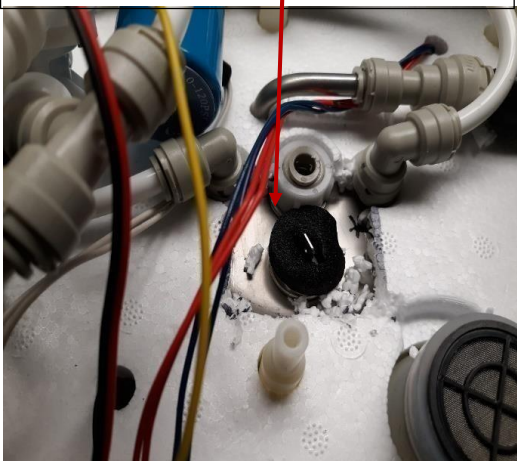
Step -5 Disconnect the Soda  
probe connection.



Step – 6 Expose the soda probe head by cutting out the polystyrene as marked below .DO NOT DISCARD!! IT MUST BE REPLACED Remove and set aside

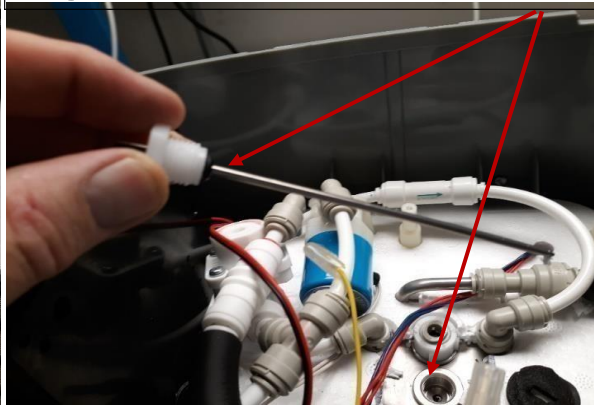


Step -7 After removing polystyrene



Step -8 Gently unscrew soda probe and replace. Soda

**NOTE:** Be careful not to lose black O-ring seal, it may

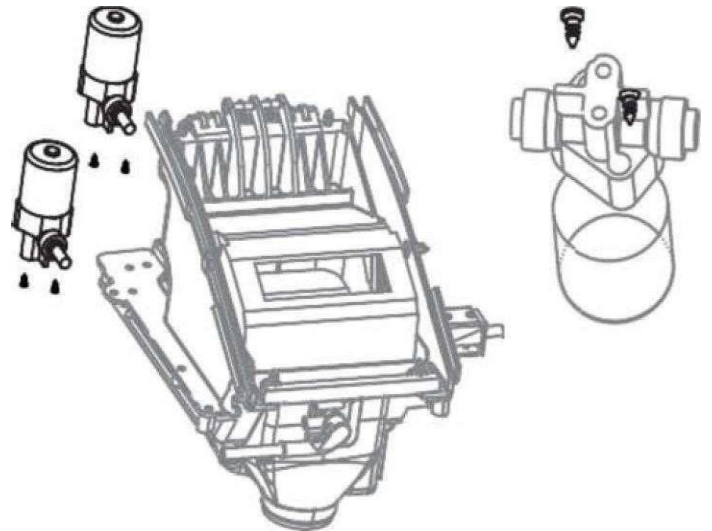
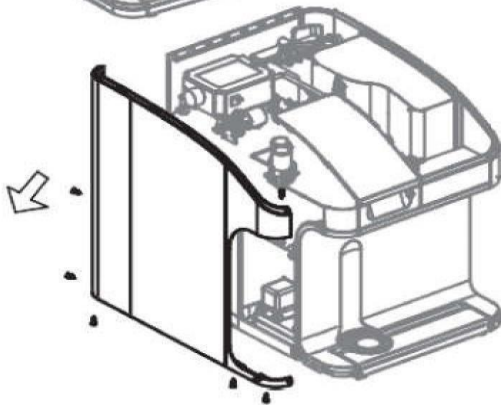
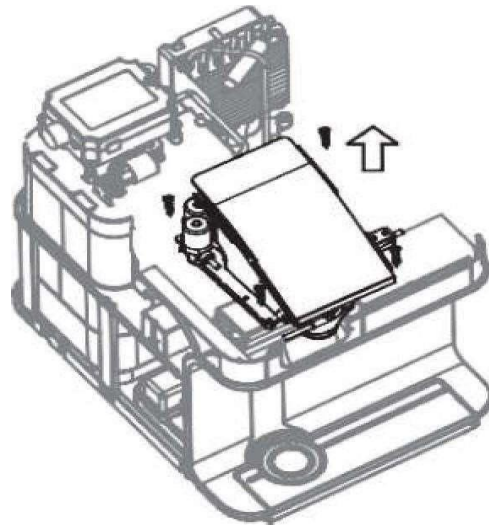
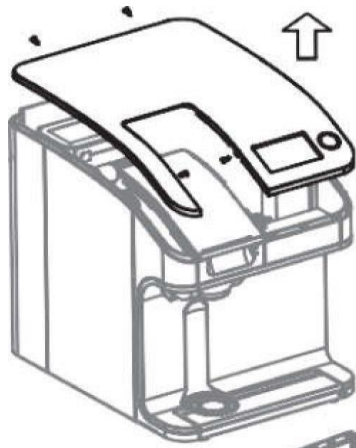


FINAL STEP -Replace probe, replace polystyrene and secure it with a non-conductive tape, white duct tape is preferred, then reassemble in reverse order.

## Soda Solenoid Replacement

If the soda valve is continually dripping it may be due to a piece of sediment trapped on the plunger seal of the valve and stopping it from sealing shut. To confirm the soda valve is dripping, first vend a still water, then turn off the water supply to the machine, then power down the machine, and make sure the C02 regulator is turned on. If the soda water is continually dripping for a minute, then it is not sealing correctly.

1. The soda valve is mounted on the left-hand side of the brewer and is the valve nearest to front (the front valve)
2. The valve needs to be stripped to gain access to the plunger seal where there may be a piece of sediment.
3. To do this you need to remove the valve and do the following.
4. Power down, turn off the water supply, turn off the C02 regulator, and release the pressure in the soda tank by actuating the purge valve mounted on the rear of the machine.
5. Remove the top cover. 2 screws at the back and 2 screws on the side wall of the brewer. Disconnect the LCD and the push button cable plugs
6. Remove the left-hand side panel, release the 3 screws at the base, 1 screw on inside of panel near the brewer, two screws on the rear panel, and a push clip on the rounded front part of the panel.
7. The solenoid is held in place by 2 screws from base.
8. To gain access to the 2 screws you need to loosen the 4-screws holding the brewer and tilt it on its side gently.
9. Undo the solenoid.
10. Purge the C02 again before you remove the soda water line. This line is pressurized so always turn off C02 and purge before disconnection. The line will drip as the soda water expands.
11. Remove the solenoid enough to gain access to the base.
12. On the underside in two recessed holes are two small retaining screws that hold the valve bonnet in place.
13. Remove these two screws and the bonnet will now come off the valve's plastic body. Take care the plunger and spring do not fall out.
14. Look in the valve body outlet orifice and the valve plunger seal for a small piece of sediment that would have stopped the plunger seal mating correctly with the valve body.
15. Reassemble in reverse order.
16. Turn on C02, water and power and test for function or any leaks.



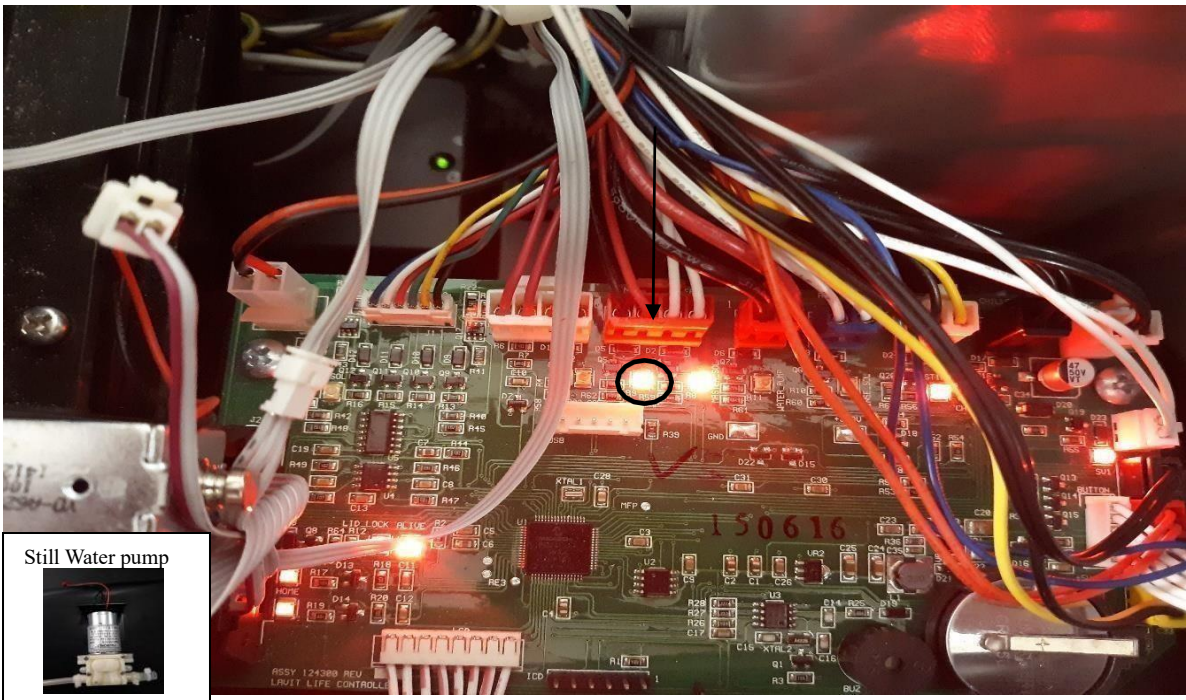
# No Still Water Dispense

Issue:

The unit will not dispense cold still water nor create a still water beverage. Soda water dispenses normally.

Solution:

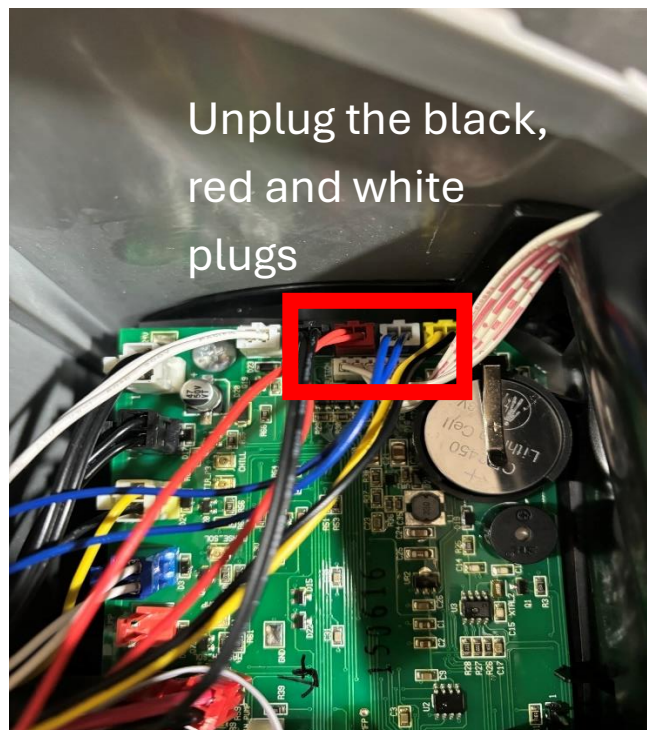
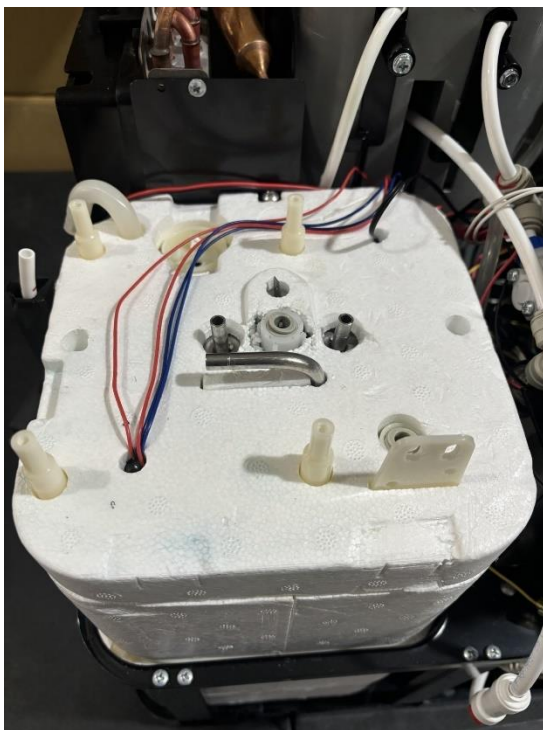
This condition is due to a faulty still water pump or still water pump connection. Remove the top of the unit by keeping the connectors attached. Observe the main PCB and the 4th connector from the left on the top row of connectors (a red connector with dual leads - two white and a red and black). Press and hold the Lavit button. A red light should illuminate on the main PCB next to the connector indicating power to the dispense pump. If the light does not illuminate, then replace the main PCB. If the light does illuminate, ensure that the red connector is properly seated on the main PCB. Follow the red and black leads back towards the dispense pump and locate the secondary connection. Ensure that the connection is properly seated. If the pump does not power after checking the PCB and connections replace the dispenser pump.

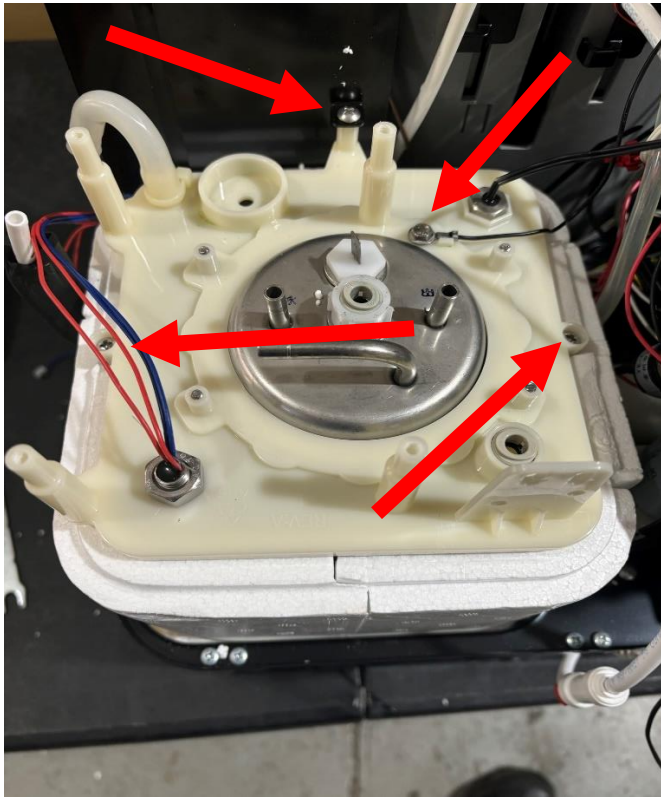


It can also be caused by a bad NTC. The NTC is the part inside the tank that reads the temperature in the tank and controls the condenser to either turn on or turn off. If a NTC goes bad it can cause the tank to freeze making it so no still drinks can be made. To check to see if the tank had frozen, unplug the drain plug in the back of the machine and see if any water comes out. If no water comes out even though the water droplet on the home page is black, then the tank is frozen. If this is the case, wait for the machine to thaw and then replace the NTC with a new one.

To replace the NTC;

1. Remove off the left and right-side panels.
2. Remove off all fittings and parts off the top of the tank.
3. Unplug the double level switch and the NTC from the board so you can take off the Styrofoam cover without damaging it.
4. Unscrew four screws that screw the top tank cover from the tank. (One is by the fan, one is near the soda tank that had a black ground wire going to it and the other two are in the front and back of the tank)
5. Take top cover off and unscrew nut that is inside the tank on the bottom of the NTC.





## 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 an 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 Cup or Beaker – marked for 12 oz. or 355 ml

Optional weight Scale – (Food scales are available in most department stores such as Wal- Mart or Target)



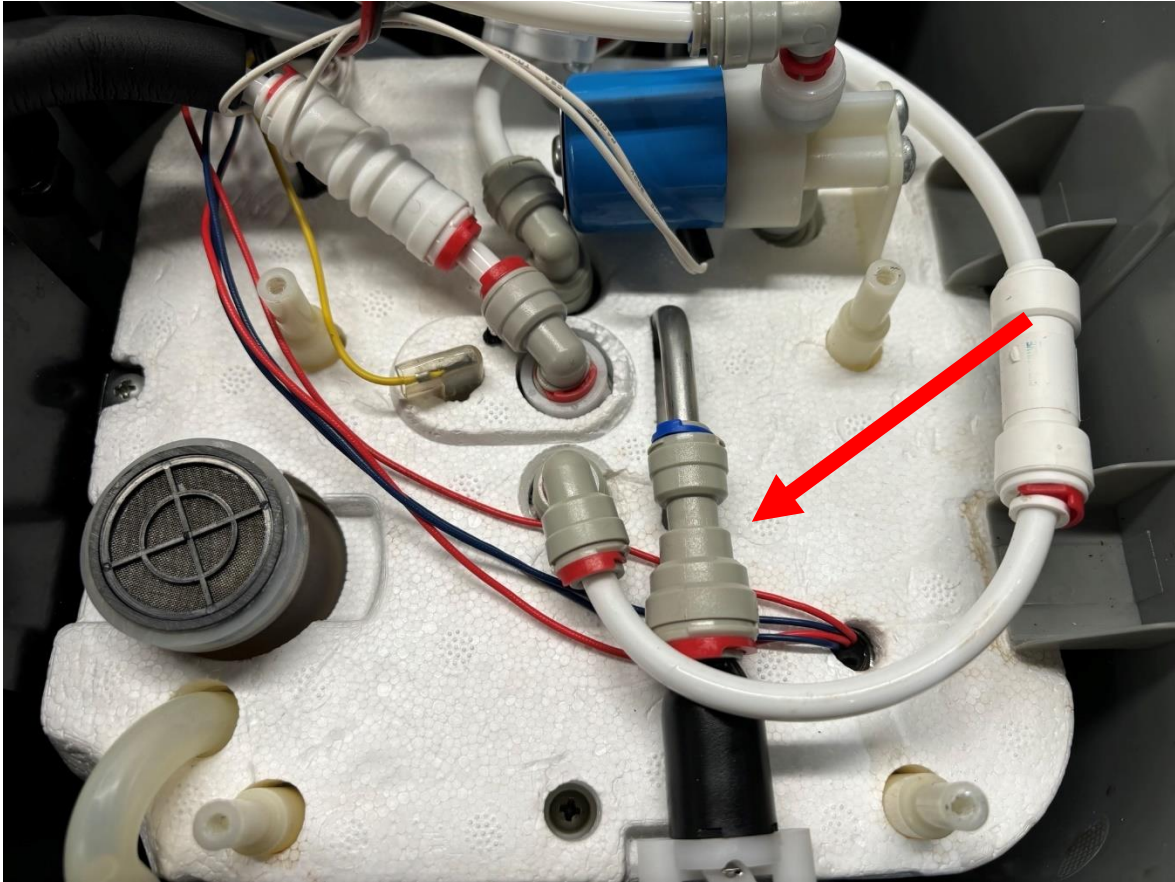
### Calibration Instructions

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.
3. Place your measuring beaker under the water dispense.

4. Press the Water start icon. Let the still water run for about five seconds to remove all air in the still water lines. Press the stop icon. Dispose the water.
5. Place your measuring beaker in the dispensing area and press the Water start icon. Allow the unit to dispense 12 ounces of still water. Press the stop icon immediately when 12 ounces are dispensed.
6. (Optional)-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.
7. Follow Steps 3 through Step 7 for the Mix Stream using the appropriate start and stop icons for the Mix Stream (Make sure there is an empty capsule in chamber when calibrating mix).
8. To calibrate the sparkling water stream first ensure that the CO2 pressure regulator is set to 3.5 bar or 50psi.
9. Follow Steps 3 through Step 7 for the Sparkling Stream using the appropriate start and stop icons for the Sparkling Stream (Purge air and calibrate).
10. 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.
11. Empty your measuring beaker.



The next place to check is the purge valve (located on the back left corner of the tank that screws into the back panel).



If it's not leaking at those spots next check all the fittings between the regulator on top of your co2 bottle all the way to the elbow fitting that goes into the tank.

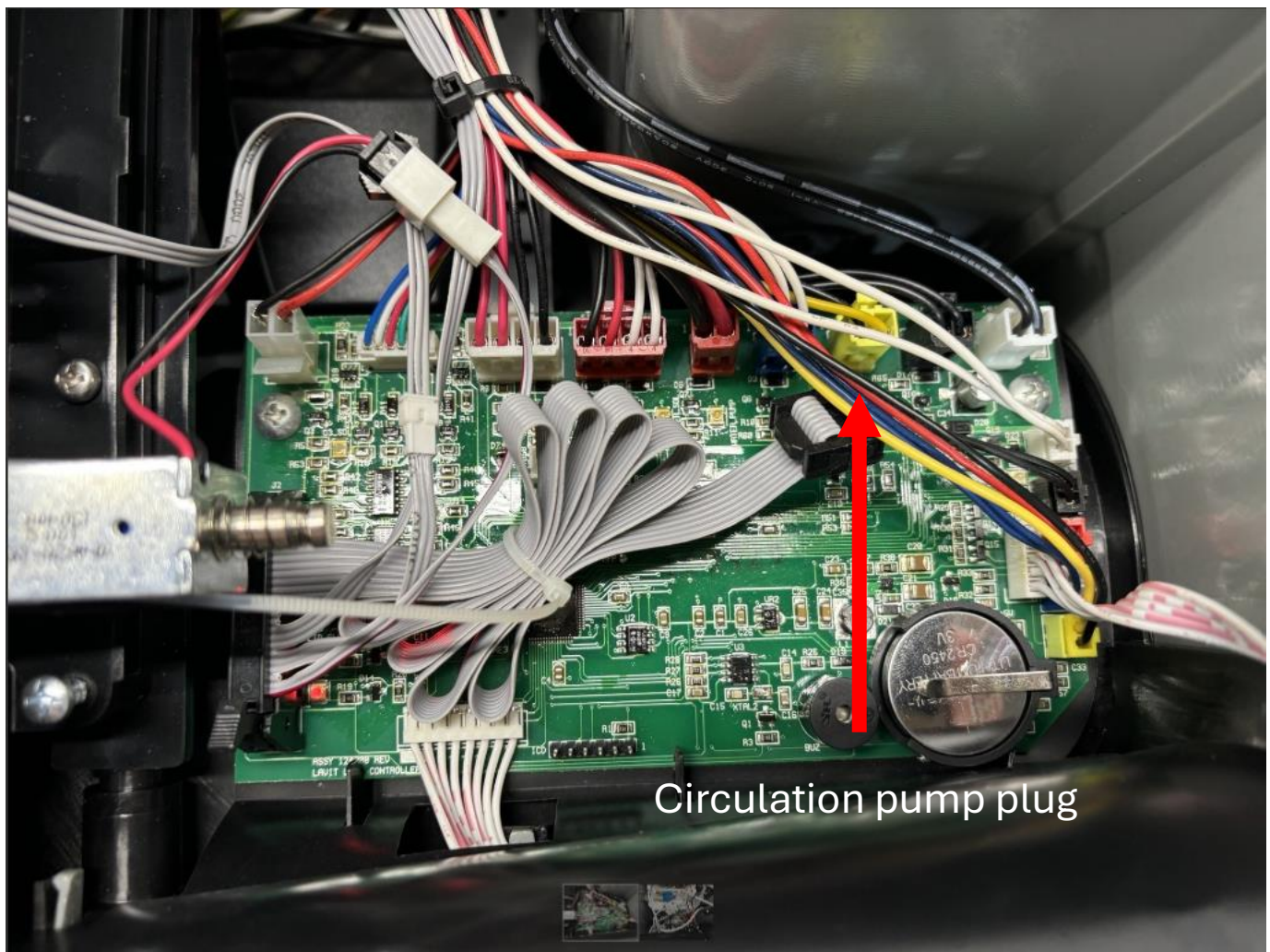
# MACHINE RESETTING

## Issue:

The machine is cycling on and off either before or right after getting to home page.

## Solution:

1. Remove the top cover of the unit.
2. Unplug the circulation pump from the Main PCB board. It is the third plug to the left from the top right-hand corner of the board. It is either a white or yellow plug with one yellow and one black wire going to it. If after unplugging it the resetting stops, then it is an issue with the circulation pump and it needs to be replaced.



# Water Tank Not Filling at Start Up

## Issue:

At the initial installation the water tanks will not fill.

## Solution:

When the unit is powered on the touchscreen should show the following:

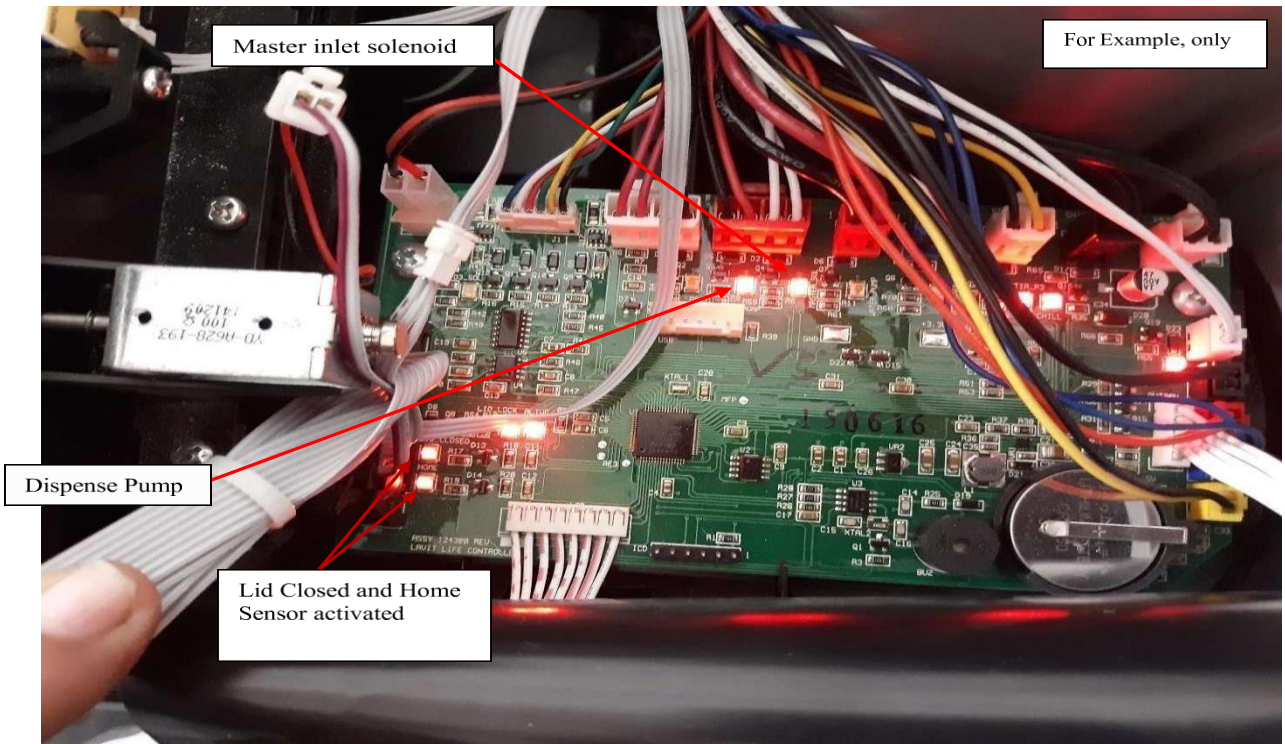
1. Warming Up and software versions displayed
2. No CO2 (because the CO2 should not be turned on at startup)
3. Home Screen with two red icons on the top right of the touchscreen (low water and low CO2 pressure)

The Lavit Button should be flashing RED. Press the Lavit button firmly and the inlet and cold tank solenoids will open, and the tanks will fill. You should hear the solenoids engage and the water running. If the above does not resolve the issue, then the inlet solenoid or the cold tank solenoid is not opening.

This can be caused by the following:

1. The inlet water pressure may be above 60 psi. High water pressure will mechanically prevent the inlet solenoid from opening. Check the water pressure and ensure a pressure reducer on the inlet line (40to 60 psi) has been installed.
2. There is no power to the inlet solenoid or the cold tank solenoid. Remove the top of the unit by keeping the connectors attached. Access the main PCB by pulling back the black plastic cover over the PCB on the front right side of the unit. Find the 4th connector from the left on the top row of connectors (a dual red connector with two white and red and black wires). Also locate the cold tank solenoid connection (small white connector at the top of the right-hand side of the PCB). Follow the above start up instructions. Look for red lights to illuminate next to the red and small white connectors when the Lavit button is depressed firmly. If no lights are illuminated or just one light, then check that the connectors are properly seated. Also follow the white leads from the red connector back from the connector to a secondary connector. Ensure the secondary connector is properly seated. Recheck by restarting as above.
3. If the lights still do not light, the electrical float mechanism in the cold water tank may be faulty. To verify, on the right side of the PCB remove the red connector and the white connector with the blue wire leads. These will be the third and fourth connectors from the top on the right side. Jump the two blue prongs in the blue connector slot on the PCB. If the solenoid lights come on and water starts filling the tanks, then the float mechanism is faulty. Replace the float mechanism. If the lights do not illuminate replace the main PCB.

4. If the lights do illuminate and no water is flowing, then a faulty solenoid may be present. To determine which solenoid is faulty disconnect the inlet tubing going into the cold tank solenoid sitting on top of the cold tank. Run the inlet tubing into a container. Restart as above. If water flows into the container the cold tank solenoid is faulty. If no water flows into the container, then the main inlet solenoid is faulty. Replace the faulty solenoid. Each component is marked on the board. Use the lights to identify if the main PCB is sending a voltage signal to the necessary leads. These will be the third and fourth connectors from the top on the right side. Jump the two blue prongs in the blue connector slot on the PCB. If the solenoid lights come on and water starts filling the tanks, then the float mechanism is faulty. Replace the float mechanism. If the lights do not illuminate replace the main PCB.



# Water Run on After Dispense

## Problem:

When the dispense of a beverage, soda water, or still water is finished there is a continuous dripping of water from the dispense point.

## Root Cause:

After a soda dispense or a soda water beverage is dispensed, it is normal to have some dripping, this occurs as the soda water in the outlet tube warms and the gas expands and pushes any water out. But if the dripping continues there may be foreign material lodged in the soda solenoid valve.

## Corrective Action:

1. Verify the soda solenoid valve is the issue by 1st turning the CO2 regulator off and purging all gas pressure from the system by then holding open the purge valve on the rear of the unit. The dripping should slow and then completely stop. Then turn on the CO2 regulator back on to 3.5 bars pour sparkling water allow approximately 3 minutes to see if the dripping stops. If the dripping continues follow the steps below.
2. Power off the unit and remove the top cover completely (4 screws – 2 in the top rear and 2 inside the brewer on each internal side wall, then pull up on the rear center of the top cover, it will snap loose. While holding the top in one hand disconnect the ribbon connectors from the Lavit button assembly and display board.
3. Remove the left side panel (6 screws – 2 on the rear, 3 under, 1 on the inside wall towards the front which requires along Phillip screwdriver to reach).
4. Make sure both the still and the sparkling water tank are both emptied before moving on to the next steps.
5. Relieve all gas pressure in the system by turning off the CO2 regulator and opening the purge valve until all pressures released.
6. Remove the inlet tubing from both the soda solenoid and the midstream solenoid located on the left side of the brewer. The soda solenoid is the outside solenoid. Remove the outlet tubing from the soda solenoid. Remove the four corner screws holding the brewer assembly in place. Be careful on the right rear screw to secure the two spacer washers.
7. Unplug the soda solenoid from its black connector extension cable.
8. Tilt the brewer assembly on its side to gain access to the 2-soda solenoid mounting screws. Remove the screws and the soda solenoid.

9. Turn the soda solenoid upside down and remove the 2 small screws that hold the white plastic base to the magnetic drive. Note the orientation of the red and blue water ports to the magnetic drive. This will help you in reassembling the solenoid.
10. Carefully remove the white plastic base and locate any foreign material in the flow chamber or on the red rubber seal at the end of the plunger. Be careful in handling so that the O-ring, plunger spring, and 2 small screws are not misplaced.
11. When the foreign material has been removed reassemble the solenoid in its original orientation.
12. Remount the solenoid to the brewer assembly.
13. Remount the brewer assembly to the unit. It is recommended you start at the right rear screw and properly place the spacer washers and then start the mounting screw. Secure the base.
14. Reinsert the inlet and outlet tubing. Reconnect the soda solenoid (black male and female connection).
15. Power unit on. Turn the CO2 pressure on to 3.5bar.
16. Verify that all dripping has stopped.
17. If this has resolved the issue -reinstall left side panel and the top panel.
18. If this did not resolve the issue replace the soda solenoid valve. See valve location below.



# Touchscreen Issues

## Blank or Black Touchscreen

**Issue:**

When the power to the unit is on the touchscreen is blank or black.

**Solution:**

This can be caused by a faulty connection to the touchscreen PCB or a faulty touchscreen assembly.

1. Remove the top cover of the unit.
2. Unplug and reinstall the touchscreen ribbon connector to the main PCB and then to the touchscreen.
3. Turn unit back on, if touch screen works then through the recalibration for the touchscreen process.
4. If the screen remains blank or black replace the touchscreen assembly.

## All White Touchscreen or Flickering/Diminished Colors

**Issue:**

The touchscreen is all white or the touch screen colors are diminished, and flickering lines appear.

**Solution:**

1. If the touchscreen is all white and you are unable to recalibrate then the touchscreen assembly should be replaced.
2. Diminished colors or a flickering touchscreen will result when the ribbon connection from the touchscreen to the touchscreen PCB is loose. Ensure that the ribbon connector on the touchscreen PCB is properly closed. Press down firmly on the connector to ensure proper sealing. If this does not resolve the issue, then replace the touch screen assembly.

## Touchscreen Recalibration

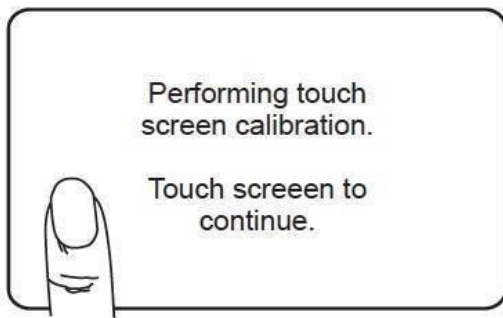
### Condition:

During normal operation of the Lavit Dispenser the touchscreen may become unresponsive, or the pushing of icons may result in an incorrect entry or no response.

### Corrective Action:

To reset and to recalibrate the touchscreen perform the following actions:

1. Turn the power OFF.
2. While pressing a finger on the touchscreen, turn the power ON, keeping your finger on the touchscreen.
3. A red calibration screen will appear.
4. Follow the instructions on the screen.
5. After the screen has been recalibrated and starts to restart, turn the power OFF and the power ON. This will restart the unit in a normal condition.
6. The touchscreen should now perform as normal.
7. If the touchscreen remains unresponsive, change the touchscreen.



# Water Chilling Screen

## **Issue:**

When water is dispensed or a beverage is created a new dispense cycle cannot be performed because the Water Chilling Screen is on.

## **Solution:**

The MAX TEMP function in the service menu has been enabled. Enter the service menu and select MAX TEMP. IF THE ON icon is present. Press the OFF icon and the ON icon will appear.

## **Other Comments:**

The units come factory set with this feature disabled. A service technician or a customer who has the password has gained access to the service menu and enabled the feature. This feature DOES NOT set the water temperature of the unit. It sets the maximum temperature allowed for water or beverage dispensing. This feature is set at the factory 49 degrees F.

# Unit is Not Cooling or Chilling

The unit is powered on for a period of time and the cold water never chills. In some cases, the water is actually warm or hot.

## **Solution:**

“No Chill” can occur from one of four circumstances:

1. A defective main PCB
2. A faulty compressor connection on the main PCB
3. A faulty connection at the compressor relay
4. Loss of Freon or inefficient compressor Causes 1 -3 will result in the compressor not running. \*

\*Cause #4 the compressor maybe running but will not cool or chill the water.

## **Instructions:**

1. Remove the top of the unit.
2. With the power on, locate the compressor connection on the main PCB. This will be the second connector from the top right on the main PCB.
3. Verify that the red power light is on adjacent to the connector. If the light is not on replace the main PCB.
4. If the light is on disconnect and reconnect the compressor connector. Determine if the compressor power on and off as you do this. Repeat as necessary to determine if the compressor powers on and off. If the compressor does power on allow it into run for 20 minutes. Verify that the condenser on the back of the unit is warm and the water has chilled.
5. If the condenser is cool, then remove the left side panel. Feel the compressor. If the compressor is running and is warm to the touch and the unit is still not chilling, then a loss of Freon has occurred. Proceed to Step8.
6. If the compressor is not running and is cool to the touch, remove the side relay connection on the compressor. Remove and reinstall the relay connectors (2).
7. Verify that the compressors are running. Allow 20 minutes to determine if the compressor becomes warm to the touch and the condenser is warm.
8. If the compressor is running and no chilling remains, then contact Lavit for a unit Return Authorization Number.

# Large Amount of Water Remains in Capsule After Dispense

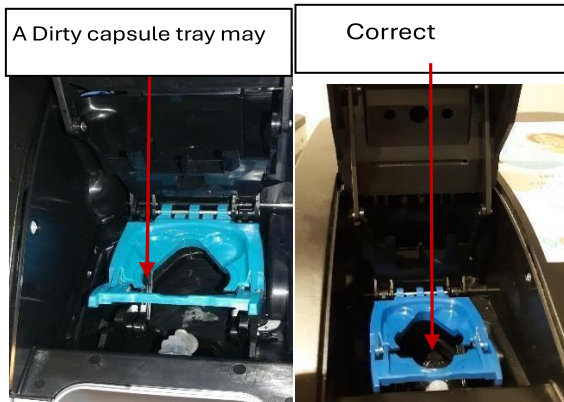
## Issue:

After dispensing a beverage, a large amount of water remains in the capsule.

## Solution:

*Three possible conditions will create this situation:*

1. The mix stream is improperly calibrated. The mix stream will run beyond the proper time and continue to fill the capsule. This is usually accompanied by a dispersed dispense stream spraying all over. Recalibrate the mix stream to eliminate this condition.
2. The stepper motor is bad and cannot raise the capsule properly. In this case the stepper motor will need to be replaced.
3. The capsule is not raised fully to 90 degrees vertically. This is usually caused by an unclean chamber that prevents the capsule drive mechanism from stopping short of 90 degrees. Clean the chamber fully. Remove the capsule tray. Pull the linkage attached to the lid towards you. Reach down underneath the linkage and grasp the drive mechanism (solid black plastic piece with a semi-circle opening). Pull the drive mechanism all the way towards you until it reaches 90 degrees. Push it all the way back until it stops. Do this a couple of times. Replace the capsule tray and dispense a beverage.



## Draining & Decommissioning The Lavit Cooler

1. Turn off the water supply to the machine.
2. Using a suitably sized bucket drain the main water tank 1st. (1.5 gallon)
3. Remove the rear plug and drain water to the bucket until the flow stops, tip cooler back to ensure all water is drained.
4. If the "error" screen appears then reset, it by powering the machine off and on.
5. Drain the soda water only after the main tank has been drained. This is done by accessing the soda empty program in the water setup screen.
6. Drain the soda until it blows CO2 gas only.
7. Turn off the power.
8. Turn off the CO2 and remove the CO2 bottle.
9. Secure the CO2 regulator.
10. Purge CO2 gas from the purge valve on the rear of the machine.
11. Replace the still water drain plug and secure with the # 2 Stainless Steel Screw.
12. Remove the power cord
13. Secure the drip tray, power cord, and CO2 regulator in the polystyrene with the dispenser.
14. Pack the machine in a protective bag and or original packing.
15. Failure to protect the machine during transport can lead to panel damage NOTE:  
➤ ALWAYS! Transport the machine in an upright position.

# Troubleshooting

Potential problems and solutions.

Condition	Possible Solution
<p>Water dripping continuously from the dispense area.</p>	<p>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.</p> <p>Continuously dripping water is caused by foreign material lodged in the soda water solenoid. Remove the soda water solenoid per the instructions on Page and disassemble the solenoid to remove any trapped material.</p>
<p>Leaking water from the rear of the unit.</p>	<p>Possible leak issues:</p> <p>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.</p> <p>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.</p> <p>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 Page17.</p> <p>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 drainpipe and inspect.</p> <p>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.</p>

<p><b>No Sparkling Water Dispense, CO2 gas only.</b></p>	<p>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.</p> <p>The following four conditions may exist:</p> <ol style="list-style-type: none"><li>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.</li><li>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.</li><li>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.</li><li>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.</li></ol>
--	--

<b>Dry powder dispenses or a large amount of undissolved powder.</b>	<p>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:</p> <ol style="list-style-type: none"><li data-bbox="537 583 1349 800">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.</li><li data-bbox="537 846 1341 951">2. If the installation is running from a bottled water supply check the bottle. An empty bottle will result in a dry capsule dispense.</li><li data-bbox="537 997 1349 1360">3. A faulty mix stream solenoid will cause a dry powder to 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.</li><li data-bbox="537 1407 1317 1549">4. If the silicone dispense nozzle has been dislodged a dry or partial beverage dispense can occur. Ensure that the silicone dispense nozzle is properly attached to the fitting it connects to.</li></ol>
--	---