

EXPOBAR BREWTUS IV

*Supplemental Instructions for all Expobar Brewtus IV machines
Rotary Pump (IV-R), Vibration Pump(IV), Plumbable Vibration Pump (IV-P)*



WHOLE LATTE LOVE™

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Congratulations on the purchase of your new Brewtus IV. The Expobar Brewtus is a very unique machine that is designed to provide you with the ultimate in brewing temperature control and, therefore, the best coffee extraction.

Please read both the manufacturer's instructions as well as these supplemental instructions thoroughly before you start brewing.

Note: Do not plug in the machine or perform any other start-up procedures until you've read the instructions.

Both boilers must be primed upon start up or the heating element in the brew boiler may be damaged. Upon startup, make sure the brew-group lever is raised to the up position until water comes out of the brew group. The steam boiler will fill on its own using the machine's controls.

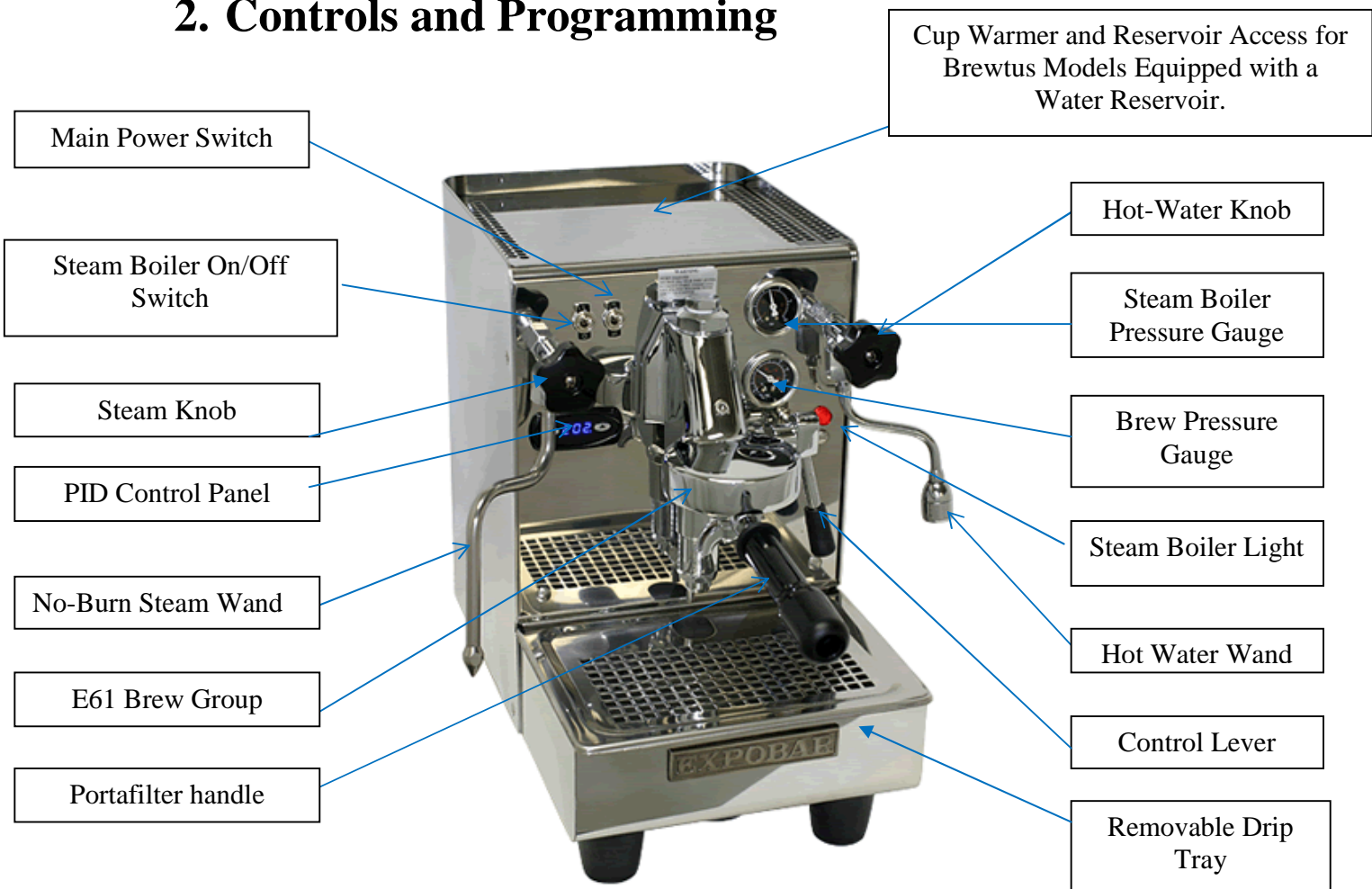
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1. Unpacking the machine.

The Brewtus IV is a very heavy machine (over 60lbs), so please use caution when unpacking the unit. To remove the Brewtus, turn the box upside down, open the bottom four flaps, then turn the box right-side-up and lift the box straight up. Then, lay the machine down on its side and remove the top layer of foam. Carefully remove the machine from the bottom layer of foam. It is easier to have a second person helping you with the removal process, as the machine is heavy and the bottom layer of foam may stick to the machine.

2. Controls and Programming



Control Lever

The lever on the front of the machine controls a valve inside of the brew group and it also controls the pump for brewing. The lever has three positions: raised, mid-level and lowered.

1. **Raised:** When in the up position, the pump turns on for brewing and the valve inside the brew group opens and allows water to flow over the coffee.
2. **Mid-Level:** This position is only used for coffee pre-infusion. Do not leave the lever in the middle position when the machine is not in use or idle. When the lever is in the middle position, the pump is off but the pressure in the brew group has not been released, so do not remove the portafilter.
3. **Lowered:** When the lever is lowered, the pump is off and any water pressure left on the coffee is released and deposited into the drip tray through the tube at the bottom of the brew group. **Always set the lever to the down position before removing the portafilter from the brew group.**

Main Power Switch

The main power switch is located on the top left side of the front of the machine. When turned on, the Brewtus will automatically start heating up and the water level control system will ensure that the steam boiler is full of water. Note: When the main power switch is turned on, the pump may activate for a few seconds, even if the steam boiler is full.

Steam Boiler Switch

When in the OFF position, the steam boiler will be inactive. Only the brew boiler will heat up. This will allow for a quicker warm up for when you only want to brew.

Steam Boiler Light

This light goes on whenever the heating element in the steam boiler is on. It is perfectly normal for this light to go on and off with or without any discernable pattern when the machine is in use.

Steam Pressure Gauge

This pressure gauge shows the pressure inside the steam boiler. The pressure comes set from the factory at 1.3 to 1.4 Bars. This is the proper boiler pressure and there should be no need to make any adjustments. The needle on the pressure gauge will go down during steaming and quickly rise up as the steam boiler heating element is activated.

Brew Pressure Gauge

This pressure gauge displays the current brew pressure.

Steam Knob (Left Side of Machine)

When this knob is turned counter clockwise, the steam valve is opened and high-pressure steam will be dispensed through the steam wand.

Hot Water Knob (Right Side of Machine)

When this knob is turned counter clockwise, hot water and some steam will be dispensed through the hot water wand. *Note: Exercise caution when using this function; boiling water exiting from the hot water wand can cause severe burns.*

Steam Wand

Use this wand for frothing and steaming your milk. The no-burn wand has been insulated to remain cool to the touch.

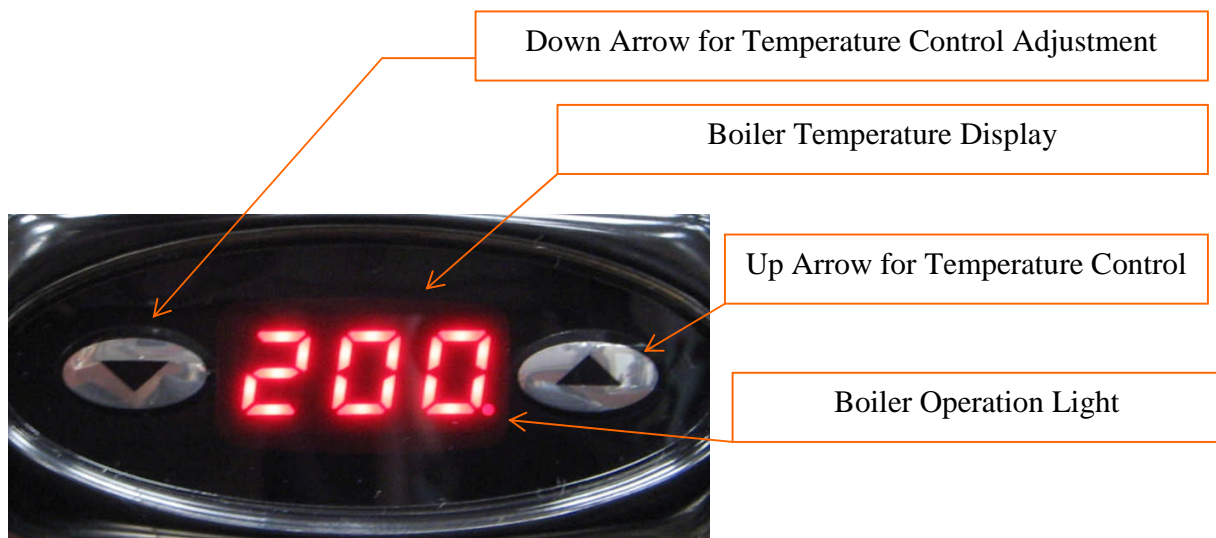
E61 Brew Group

The brew group will become very hot. Always use caution while working with the machine.



Optional Bottomless Portafilter with a triple shot basket.
(Not included with machine)

Control Panel with PID Temperature Control



The PID controller was designed and programmed exclusively for the Expobar Brewtus. Fahrenheit temperatures are adjustable in one-degree increments.

The PID control displays the brewing temperature and can be used to adjust brew-boiler temperature. It does not affect the steam boiler, which is controlled by a pressure stat.

Display functions:

1. Upon startup, the digital display will show the current brew boiler temperature, minus an offset factor.
2. The small LED light will blink, as it sends power to the brew boiler.

Note: The steam boiler heats up first, which will take about 8 to 10 minutes.

Afterwards, the brew boiler will turn on. Both boilers will not operate at the same time.

Changing the Brewing Boiler Temperature

1. Push and release the “Down Arrow” (left button), the display will show “PRG.”
2. Push the “Up Arrow” and release. Then, press the UP and DOWN arrows to set to your desired temperature. It may take up to 5 or 10 minutes before the new temperature is achieved.

To Turn off the Brew Boiler (the only reason to do this is if you just want to steam milk or dispense hot water without brewing)

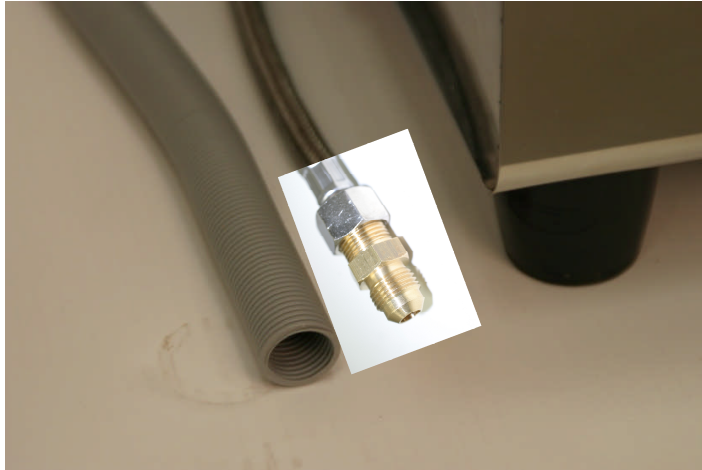
Press the UP arrow for 2 seconds; the display will show “Off.” To turn the brew boiler back on, push and hold the UP arrow for 3 seconds.

Steam boiler adjustments: We do not recommend making any adjustments to the steam-boiler pressure. It is set to cycle between 1.2 and 1.4 Bars.

3. Water and Drain Line Connections

Water Line Connections for Brewtus-IV Models Equipped with a Rotary pump or Vibration Pump with Plumb Kit

The water line supplied with the machine is 3/8" braided stainless steel and it may vary in length. It will include a 3/8" male flair fitting for you to hook onto. Depending on your water quality, you may want a good water filter to condition your water, which will help with machine longevity. The taste of the coffee is affected by your water.



Drain Line Connection (On Brewtus-IV with Drain Line)

The drain line measures 57" long from the drain pan. It has an inside diameter of 3/4" and an outside diameter of 7/8". You will want to have an open drain line stand pipe for it to drop into. The end of the drain line should not be below the surface of the water in the stand pipe or it may back up. The drain pan supplied does not have a hole in it because many customers do not want to hook up the drain line. If you hook up a drain line, drill a 1/4" hole in the center of the drain pan.



Water line Adapter:

The machine comes equipped with a braided stainless steel water line. Included is a brass adapter that has a 3/8" male flair fitting. You will need to use a 3/8" female flair fitting to hook up to it.



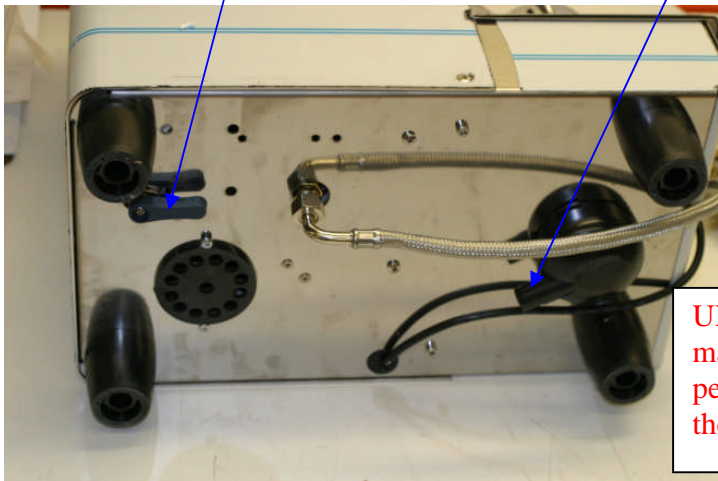
Brewtus IV-P with Plumbing Kit and Reservoir

The Brewtus IV-P can be used either with a water line hookup or the included reservoir. There is a lever on the bottom of the machine that you can use to alternate between the plumbed line and water reservoir. The machine will be shipped from Whole Latte Love ready to use with the reservoir. If you want to use it with the water line hookup, you will have to move the control lever and the wires on the Micro Switch that senses the weight of the reservoir as shown below.

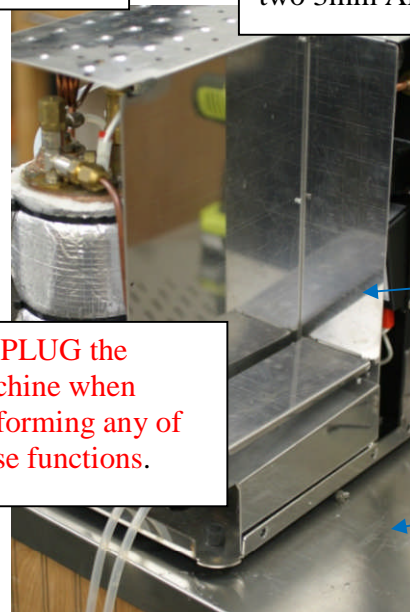
Turn this lever forward for water line connection and back for reservoir connection. (The image below shows it set up for a water line).

The flexible drain line that was supplied with the machine slides over this fitting.

To access the micro switch under the reservoir remove the housing (5 screws) and the reservoir holding plate (two Philips head screws and two 3mm Allen screws)



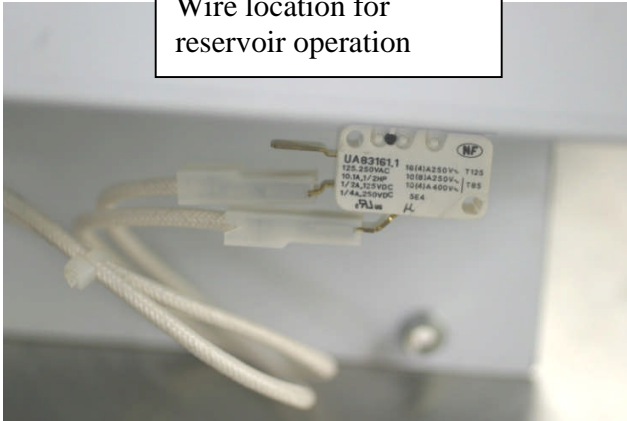
UNPLUG the machine when performing any of these functions.



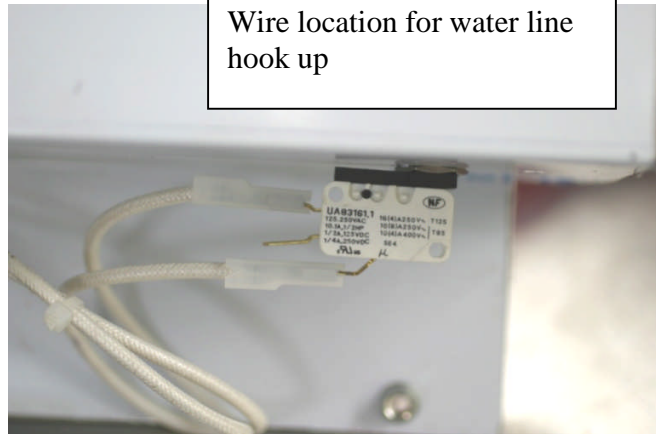
Reservoir holding plate

Two 3mm Allen screws

Wire location for reservoir operation



Wire location for water line hook up



4. Incoming Water Pressure

Rotary Pump Machines

The Brewtus IV-R is designed to be used with a water line connection. The pump will work fine off any standard incoming water pressure. The water line can be dropped into a water container, if you like, but you must be careful not to let it run dry as it could damage the pump. Before we ship the machines, we set the brew pressure to 9 Bars at an incoming pressure of 40 PSIG. If the incoming pressure is higher than 40 PSIG, the brew pressure may have to be adjusted down; if it is lower, the pressure may have to be adjusted up.

Note: When using the water line connection, we highly recommend that you also hook up a drain line.

Vibration Pump Machines:

When using a vibration pump machine with a water line connection, we recommend installing a pressure reducer. The machines will run on incoming water pressure from 5 PSI to 50 PSI. The incoming water pressure will have an effect on the brew pressure. We set the brewing pressure to be at 9 Bars. To do this, we set the OPV to maintain 10 Bar of pressure when the backflush disc in place. If you have higher incoming water pressure you, may have to adjust the brew pressure down. See below for instructions. Note: The higher the incoming water pressure the more water will be diverted into the drip tray via the brew pressure control (OPV) valve and the more you will have to empty the drip tray if you are not using the drain line connection. When using the water line connection, we highly recommend that you also hook a drain line to guard against the drip tray overflowing.

5. Brew Pressure Adjustments

Rotary Pump

CAUTION: Adjusting the pump pressure can be time consuming and since it is very close to the electrical connection on the boiler, we recommend that all adjustments are done when the machine is not plugged in.

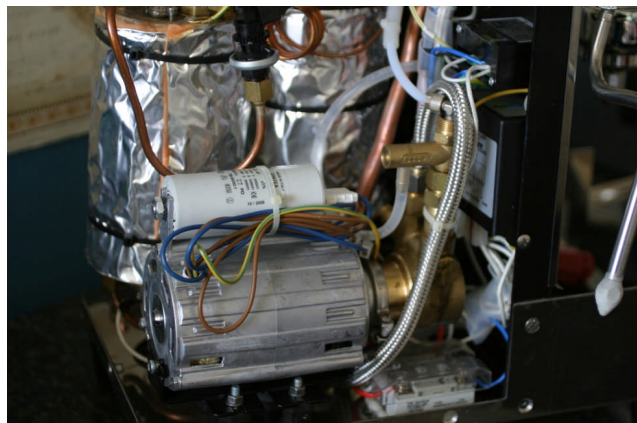
Note: We recommend that the Rotary pump be set to 9 Bars with the back flush disc in place. The OPV should be set to open at 11 Bars.

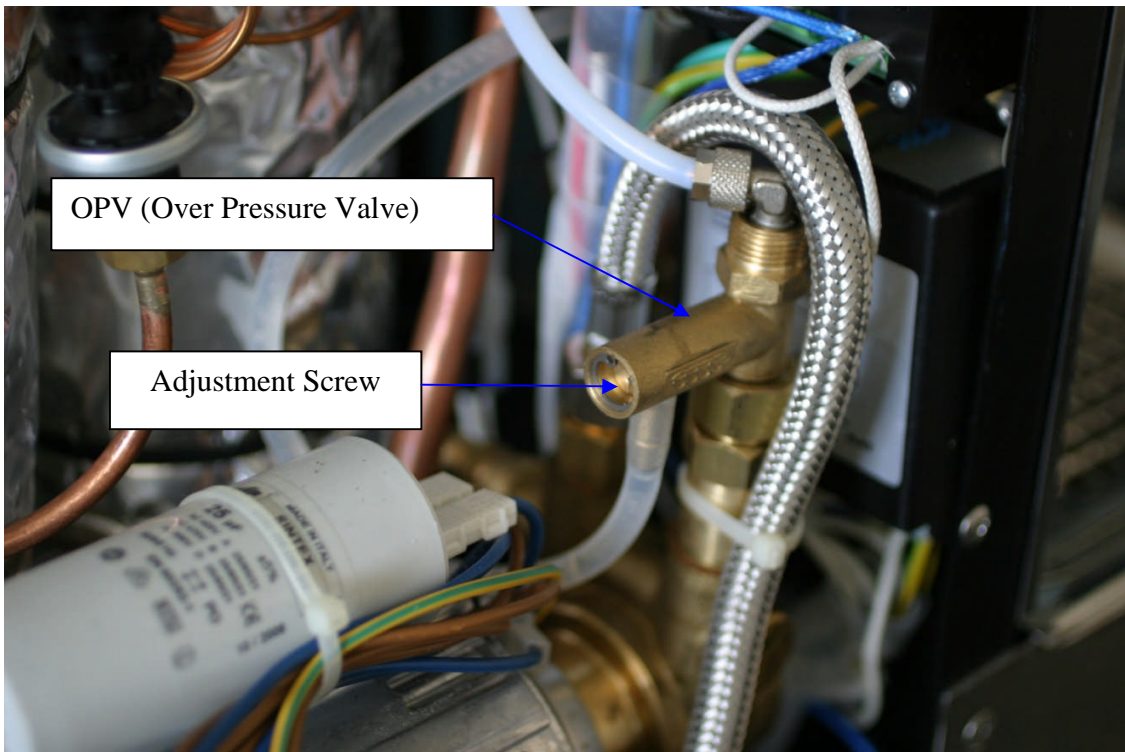
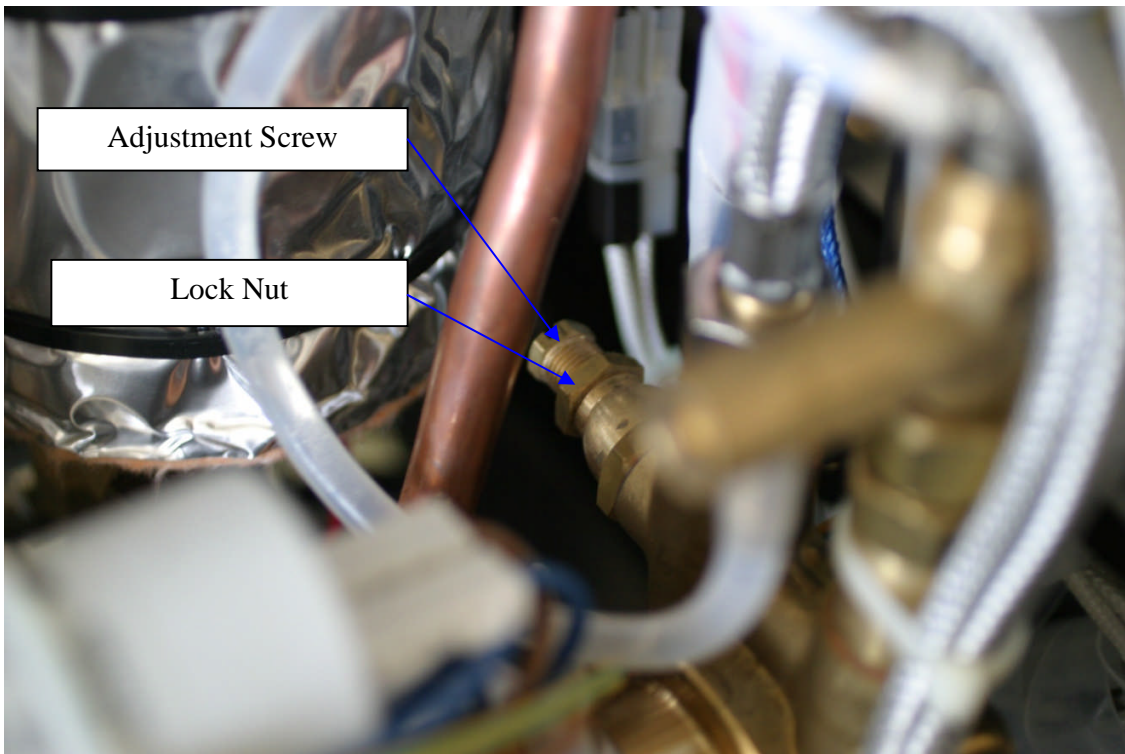
Adjusting the Pump Pressure: Adjust the pump pressure by loosening the lock nut then turning the adjustment screw. Turn the adjustment screw clockwise to raise the pressure and counter clockwise to lower the pressure.

Setting the Brew Pressure: Turn the adjustment screw counter clockwise to lower the pressure and clockwise to raise it. Between adjustments, lower the lever on the brew group to release the pressure. Make your adjustment with the machine unplugged and then plug it in and test your setting. When you have the pressure adjusted, tighten the lock while holding the adjustment screw in place or it may turn and change the setting.

Setting the OPV: We set this before your machine has shipped. To set the OPV, you will have to run the machine with the backflush disc in place. First, raise the brew pressure to 11 Bars. Then, with the pump running, turn the adjustment screw on the OPV so that it just starts to let water flow out of the overflow tube. It is now set to open at 11 Bars.

View of Rotary Pump





Vibration Pump Machines

Note: Set the brew pressure when the machine is cold to prevent accidental burns.

We set up the pump to obtain a brew pressure of 9 Bars, with a flow of approximately 2 ounces in 25 seconds. To set the brew pressure, insert a backflush disc into the portafilter and place it into the brew group. Then, raise the lever on the brew group to turn on the pump. You can now adjust the OPV to obtain 10 Bars on the gauge. Turn the adjustment screw clockwise to raise the pressure and counter clockwise to lower the pressure. The OPV is located through the ½” hole, behind the drip tray. Make sure you put the drip tray back in place before you lower the lever on the brew group or water will blow out onto your counter.

Look in the hole and locate the brass adjustment screw before you insert the screw driver.



6. Accessories

The following accessories are included with the machine:

- A double-spout portafilter
- A single-shot filter basket
- A double-shot filter basket
- Tamper
- Rubber back flush disc
- Coffee scoop

7. Initial Start-Up Instructions

Machines that use a water reservoir. For machines connected to a water line, see the next page.

After the machine has been removed from the packaging, place it on a level surface.

1. Remove the white protective covering from the all parts of the machine.
2. Remove the reservoir from the top of the machine and rinse it out. Fill the reservoir with water and place it back into the machine. Make sure both rubber tubes are placed back into the reservoir. (Vibration pump machines with water line options will not have the second tube)
3. **NOTE: Do not use water that has had all of the minerals removed. Minerals are necessary for the sensors in the boiler to work properly. Notice that the water inlet line has a water softener on it. Make sure that it fills with water and is not floating.**
4. Plug the machine into a wall socket that matches the three-pronged plug on the machine. It is important that the machine is grounded. If you have any questions, please call Whole Latte Love at 888-411-5282 and ask to talk to a representative in our technical department.
5. Turn on the main power switch and move the brew-group lever to the UP position. The pump will go on and fill both the steam boiler and the brew boiler. Leave the lever in the UP position until there is a steady stream of water coming out of the brew group. Move the lever to the DOWN position and let them machine heat up. Always leave the empty portafilter in the brew group so that it will be hot when you're ready to brew.

Note: When the water in the reservoir gets low, the machine will turn itself off.

It will take around 18 minutes for both the brew boiler and steam boiler to reach operating temperatures. Please see the brewing tips section for information on how to get the best results out of your new Brewtus IV.

Initial Start-Up Instructions Brewtus IV-R

After the machine has been removed from the packaging, place it on a level surface.

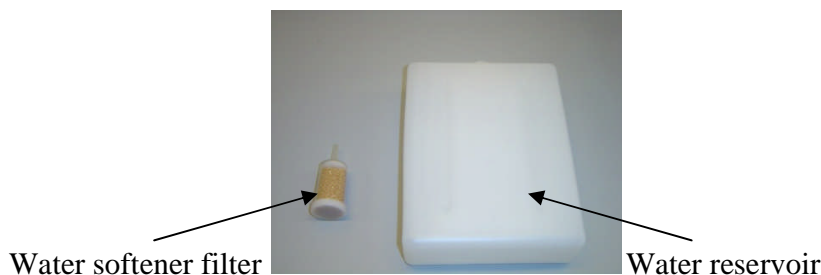
1. Remove the white protective covering from the all parts of the machine.
2. Attach the water line from the machine to your water line connection and turn on the water supply to the machine. Run the line from the bottom of the machine to your drain line.
3. Plug the machine into a wall socket that matches the three-pronged plug on the machine. It is important that the machine is grounded. If you have any questions regarding this please give Whole Latte Love a call at 888-411-5282 and ask to talk to a representative in our technical department.
4. Turn on the main power switch and move the brew group lever to the UP position. The pump will go on and fill both the steam boiler and the brew boiler. Leave the lever in the UP position until there is a steady stream of water coming out of the brew group. If the pump runs for more than 1 minute and water does not come out of the brew group, please turn off the machine and call Whole Latte Love Technical Support.
5. Move the lever to the DOWN position and let them machine heat up.
6. Always leave the empty portafilter in the brew group so that it will be hot when you're ready to brew.

Note: It will take around 18 minutes for both the brew boiler and steam boiler to reach operating temperatures. Please see the brewing tips section for information on how to get the best results out of your new Brewtus IV.

8. Water Softener Instructions (Brewtus IV Machines with Reservoir Only)

The Brewtus IV comes with a water softener that will help keep damaging minerals out of the boilers. There is nothing that has to be done at initial start up stage to get the water softener ready for use.

See the chart below for recommendation how to recharge the water softener. Use the following recharging instructions:



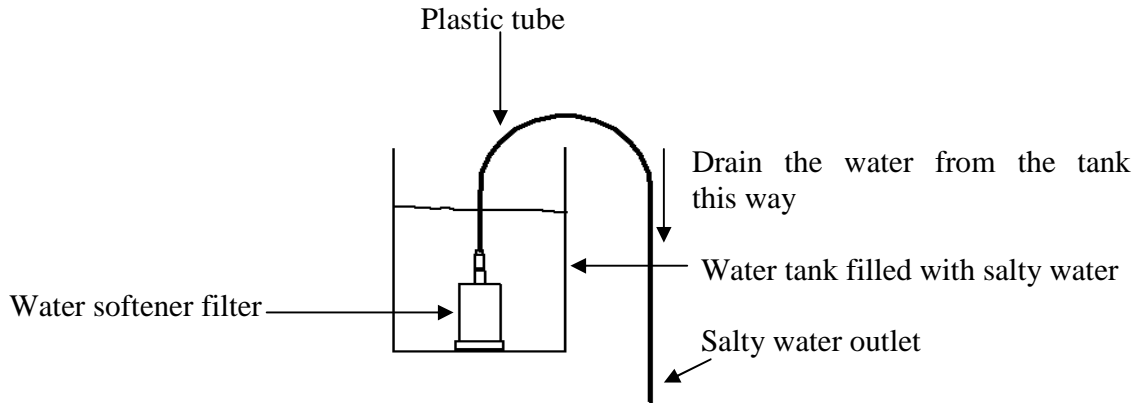
- a) Fill a container with water (same amount as the reservoir)
- b) Add 3 tablespoons of salt to the water container.
- c) Stir the salt into the water.

- d) Insert the water softener filter inside the reservoir.
 e) Drain the water from the reservoir through the water softener filter.

To drain the water from the reservoir:

- Place the plastic tube as it is indicated.
- Suck in the tube until it fills with water.
- Press your finger over the inlet from the tube.
- With your finger over the tube, place the inlet from the tube downwards (as indicated). Wait until the reservoir is completely empty.

Once the water reservoir is empty, fill it again with water (do not add salt) and repeat the process in order to clean the water softener filter.



Water Hardness	Litres of softened water, depending on its harness (In French Degrees °TH)					Salt
	20	30	40	60	80	Grams
Maximum Volume of water softened by filter	11	9	8	7	5	300

9. Coffee Preparation

What is crema?

Crema is creamy foam that is on top of your espresso and is the essence of what espresso is all about. The crema houses the multitude of aromas and flavors that are extracted from the beans. The color will vary with the beans that are used and can range from a medium golden brown to a dark golden brown

Golden Rule

The Golden Rule is a simple formula that if you read it, understand it and follow it you will be brewing commercial quality espresso in no time.

A double shot of espresso should equal 2 to 2.5 fluid ounces, have approximately 14 grams of ground coffee in the filter basket, and take approximately 25 seconds from the moment you start the pump until you reach the appointed liquid volume. A single shot of espresso should have 1 to 1.5 fluid ounces and approximately 7 grams of ground coffee in the filter basket and take approximately 20 seconds.

Your best shots are always double shots, due to the chemistry involved in extracting the flavors and aromas from the coffee. Use the double-shot filter basket. Loosely fill the filter basket with coffee and tamp with approximately 30 pounds of pressure. Put the portafilter into the machine; turn on the brew switch to start the pump and time how long it takes to dispense 2 to 2.5 ounces of espresso into your cup.

If the coffee comes through too fast, grind your coffee a little finer and try it again. If it comes through too slow, grind your coffee a little more coarse and try again. The tamp pressure and the coffee volume stay the same, the only thing that changes is your grind setting.

If you don't have your own grinder and you can't vary how fine or coarse the coffee is ground, you will have to vary your tamp pressure according to the shot timing. If the water runs through the coffee too fast, tamp a little harder. If the shot is too slow, tamp a little lighter.

10. Advanced Brewing and Operational Techniques

1. It will take about 18 minutes for the digital display and pressure gauge to show that both boilers are up to the set temperature. If you want to brew right away, we recommend doing 3 separate 4-ounce blank shots to preheat the brew group and portafilter. To pull a blank shot, place your portafilter into the brew group and raise the control lever to the UP position and run 4 ounces of water through it. If the temperature falls below the set point, wait for it to heat back up and then repeat this procedure.
2. After the machine has been on for over 35 minutes, it is recommended that you run 2 ounces of water through the brew group if the machine has been idle 5 minutes or more.
3. After the programming the machine to brew at a different temperature, it may take 5 to 10 minutes for the boiler temperature to balance out.
4. The Brewtus has two 1.7-liter boilers, one for brewing and one for steaming and dispensing hot water. When the Brewtus is turned on, the steam boiler will automatically fill with water. The brewing boiler must first be filled by lifting the control lever and leaving it in the UP position until the water is flowing out of the brew group in a steady stream. When the steam boiler is full, the heating element in the steam boiler will be energized and the steam boiler will start to heat up. Once the steam boiler reaches operating pressure, which is around 1.3 Bars on the gauge, the heating element in the steam boiler will turn off and the heating element in the brewing boiler will turn on. As the brew boiler heats, the small LED on the digital display will flash and will display the current temperature of the boiler. The steam boiler will heat in around 8 minutes and the brew boiler will heat in another 8 minutes.

11. Steaming and Frothing

Put the steam arm above the tray and open the steam knob a little so that water residue is removed from the arm. Close the steam knob. Put the steam arm into the liquid you'd like heated and open the steam knob.

When you finish steaming or frothing, put the steam arm over the tray and open the knob to clean inside the steam arm. Close the knob and wipe the steam arm with a soft, damp cloth.

FROTHING TECHNIQUES

What is frothed milk?

When you froth milk, you inject air into it while steaming. The thickness and texture of the froth will vary with the technique used. Frothing is always done when the milk is at its coldest. Keep the tip near the surface of the milk, so that you will hear a hiss hiss sound as the air is being injected into the milk. The longer you froth the thicker the froth will be. If you want creamy froth (micro foam), froth until you are at around 110°F and then steam the rest of the way. Never steam or froth over 160°F. Skim milk will froth very easy and create a thick froth. The higher the fat content of the milk, the more this technique is necessary and the creamier and sweeter the froth will be.

What is steamed milk?

Steamed milk is heated but not frothed. In other words, you don't inject any air into the milk while heating it. The key to this is to keep the tip of the wand submerged in the milk, so that it does not let in any air. Never steam or froth over 160°F.

12. Dispensing Hot Water

Place cup under the hot water outlet; open the water knob and then close it when you have the required quantity of water. You can use the hot water for pre-heating cups before brewing as well as for tea and Americano.

NOTE: Use caution as some steam will come out with the water and may splash or spray.

13. Cleaning Brewing Components

Cleaning the brew head on the lever-style machines is necessary for optimal flavor and brewing pleasure. Three different processes are involved with cleaning the brew head: backflushing with water only, backflushing with cleaner and removing the shower screen for cleaning by hand. Under normal household conditions, we recommend that you backflush your machine with water about every 10 to 14 days. You should backflush with cleaner about 12 times a year. It is also recommended that you remove the shower screen, inspect and clean it as well as the brew group behind the shower screen as often as necessary. When you remove the brew group for inspection, you will be able to judge how often you want to clean it by how dirty it is.

To prepare for a backflush cycle, your machine must be up to brew temperature and pressure.

Backflushing with Water Only:

1. Place the single-shot filter basket into the portafilter and insert the rubber backflush disc into the filter basket with the nipple side facing up or use a stainless steel blind filter basket.
2. Raise the control lever for 5-10 seconds or until the pressure builds up. Then, move the lever to the down position to release the pressure.
3. You will notice a pressurized stream of water released into the drip tray a moment after you turn the lever to the DOWN position. This is the backpressure release, or the backflush. Check the water in the drip tray. Is it dirty? If so, then repeat the process until the released water is clean.

Backflush with Cleaner:

You should backflush with a detergent 12 times a year. We recommend using Urnex Cafiza, which delivers excellent results. Add 1 tablespoon of the espresso machine cleaner to the blind filter basket/backflush disc and follow the procedure above. It may take 5 cycles or more to completely clean the machine. Rinse the brew group thoroughly and backflush 4 times without cleaner to make sure that there is no cleaner left.

Cleaning the Brewing Components by Hand:

Cleaning the brewing surfaces is done as follows:

Note: The cleaning of the brew head should be done while the machine is cold to avoid burns.

1. Remove the shower screen. The shower screen is located at the same place the portafilter installs into the machine. Using a flat-head screwdriver, wiggle the screen out. The screen and gasket will come out together.
2. Separate the screen from the gasket as the solution can damage plastic and rubber parts. *Note: Remember which side of the gasket faces up.*
3. Mix a solution of Urnex Cafiza and very hot water in a container. Use two tablespoons of the cleaner and fill the container halfway, as the solution will foam.
4. Soak the shower screen, shot baskets and portafilter head in the solution for about 10 minutes. Take care not to soak the portafilter handle; as the solution may damage the plastic.
5. After a thorough cleaning, rinse all parts with fresh clean water.
6. Reassemble in reverse order.

14. Cleaning the Housing

Use a non-abrasive cleaner and a soft cloth. Do not forget to disconnect the machine from the electrical supply before cleaning.

15. Trouble Shooting Guide

The Machine Does Not Turn On:

Make sure the power is on and the machine is plugged in.

Make sure that there is power to the outlet in the wall.

Make sure there is water in the reservoir

Coffee Comes Out Too Quickly:

See the Golden Rule. The coffee probably has to be ground finer and or purchase fresher coffee.

Coffee Comes Out Too Slowly.

See the Golden Rule, coffee may be ground too fine.

Clean the brew group as described in the cleaning instructions. (Make sure the reservoir is full of water Brewtus III V only).

Coffee Is Not Hot Enough:

Make sure that the cup and all the brewing components are pre-heated by doing a blank shot, as explained in the “Advanced Brewing and Operational Techniques” section.

Pump Runs But Water Is Not Being Sucked Into The Machine.

The pump needs to be primed or the machine needs service. Call Whole Latte Love for instructions.

Water Leaks Around The Portafilter:

Make sure group gasket is clean. The gasket may be old and need to be replaced. There could be too much coffee in the filter basket.

16. Recipes

Espresso

Espresso is pressure-brewed coffee. A properly brewed espresso, with fresh coffee, will have a thick golden crema on top and not taste bitter or sour.

- A single shot consist of approximately 7 grams of ground coffee and 1 to 1.5 ounces of liquid.
- A Double shot of espresso contains 14 grams of ground coffee and 2 to 2.5 ounces of liquid.

Café Latte

A café latte is made of 2/3 steamed milk and 1/3 espresso.

1. Steam a pitcher of milk.
2. Fill 2/3 of your cup with steamed milk.
3. Add a couple spoonfuls of froth.
4. Brew your espresso and it with the milk.

Cappuccino

A cappuccino is traditionally served in a 7oz cup. The drink is comprised of equal amounts of espresso, steamed milk and frothed milk.

1. Steam and froth a pitcher of milk.
2. Brew your espresso into your cappuccino cup.
3. Add the steamed milk while holding back the froth with a spoon.
4. Spoon the froth on top.

Ristretto

Also known as the “little one,” the ristretto is the strongest espresso of the family. The Ristretto uses the same amount of ground coffee as a regular espresso but uses less water.

1. Prepare to brew an espresso using the normal amounts of ground coffee.
2. Stop the extraction just short of the “Golden Rule.”

Café Mocha

Add some hot chocolate milk to an espresso and you’ve got Mocha!

1. Steam some milk.
2. Add a squirt of chocolate syrup to the milk and mix it well.
3. Brew your espresso and pour it into a larger glass or mug.
4. Add the hot chocolate milk.
5. Top it off with some whipped cream or chocolate shavings.

Café Crema

A café crema is a long espresso. Instead of stopping the shot as you normally would for a single or double shot, let the pump run longer until you have a cup of coffee.

Café Americano

Brew a proper espresso and add hot water.

Espresso Macchiato

This is an espresso with a little bit of froth on top.

17. Coffee Education and Terminology

What is Espresso?

Espresso is “pressure-brewed coffee.” The pressure can be created by a pump, piston or through steam pressure. Your Expobar is a pump-style of espresso machine, which is the best type available. The pressure is necessary to create the crema.

What is Crema?

Crema is the golden layer of foam that you will find on top of your espresso. The crema is what holds many of unique flavor characteristics of your espresso.

SCAA’s (Specialty Coffee Association of America) Definition of Espresso

Single shot: 7 Grams of ground coffee and 1 to 1.5 ounces of liquid espresso

Double shot: 14 grams of ground coffee and 2 to 2.5 ounces of liquid espresso.

Basic Bean Info

There is no such thing as an espresso roast. There is no such thing as an espresso bean. The beans used for brewing espresso can be a blend or a single-origin coffee that has good flavor characteristics for espresso.

Some people like a dark roast and others like a light or medium roast. The color of the roasted beans has nothing to do with the brewing equipment used. A dark roast coffee can be used for drip or espresso but what will make it taste good is the blend of beans used. The blend used for espresso will be different than the blend from drip coffee.

Arabica and Robusta Beans

Arabica

Arabica is grown at higher elevations and is more expensive since it is harder to cultivate. It is generally agreed that the Arabica is the higher quality bean.

Robusta

Robusta is grown at the lower elevations and is a bean with higher acidity. Some roasters may add in some Robusta beans to give the espresso an edge so that it brews well for milk-based drinks. The Robusta may also be used to help give the coffee a thicker crema.

Steaming and Frothing

There is a difference between steamed and frothed milk. Steamed milk is milk heated with steam from a steam wand. Frothed milk is also heated but air is injected into the milk to create froth. Different techniques can be used to create either a creamy or foamy froth. Low-fat milk froths easier and creates a more airy froth. Milk with a higher fat content requires more technique to create froth and will create a creamier and sweeter froth.

Basic Terms

Filter Basket: The stainless steel basket that holds the ground coffee. Most machines come with a single and a double-shot filter.

Portafilter: The handle on that holds the filter basket.

Shower Screen: The part of the machine where the water exits the brew group. It distributes the hot brewing water onto the coffee.

Brew Group: The part of the machine that holds the shower screen. The portafilter goes into the brew group.

Drip Grate: The area you put the cups on when brewing.

Drip Tray: Catches any spilled coffee and is underneath the drip grate.

Extraction: When you brew coffee or espresso, you extract the flavors out of the coffee.

Flavor Characteristics: These are the many unique flavors that you can taste in a cup of espresso or coffee.

Five Basic drinks

1. Espresso: Please refer to the SCAA definition.
2. Café Crema: This is a long espresso. Instead of turning off the pump when you get to a proper single or double shot, keep the pump running until you get a full cup of coffee. The actual volume of the café crema is up to you. The more water you use, the weaker the coffee will be. A café crema would be classified as an over extraction.
3. Café Americano: Brew a proper single or double shot and add hot water. This is the best full cup of coffee that you can make.
4. Café Latte: Consists of 1/3 espresso and 2/3 steamed milk.
5. Cappuccino: Equal amount of espresso, steamed milk and frothed milk.

Extraction Information

Your Expobar machine is designed to brew a proper single or double shot according to the Specialty Coffee Association of America's (SCAA) definition. With a proper shot of espresso, you extract the flavors out of the coffee that the roaster intended. If you run more water through than a proper shot calls for, you will extract some undesirable flavors, which will make the resulting espresso bitter.

When brewing a shot, you will notice that at the end of the extraction the flow gets lighter in color. This lighter color is the sign of an over extraction and will cause the bitter flavor. For this reason, a Café Americano will taste better than a Café Crema. A Café Americano is a proper shot of espresso mixed with hot water. The coffee is not over extracted. There are three types of coffee you can make with the Expobar Brewtus: espresso, Café Crema and Café Americano. You may find that you will not ever need a drip machine again.

18. Cautions

- THERE ARE NO USER SERVICEABLE PARTS INSIDE THE MACHINE. YOUR EXPOBAR SHOULD BE SERVICED BY A QUALIFIED TECHNICIAN.
- DO NOT TRY TO PUT ANYTHING INSIDE THE MACHINE THROUGH THE VENTS.
- PLEASE CHECK THE WATER LEVEL IN THE TANK FREQUENTLY.
- DO NOT LET CHILDREN TOUCH OR OPERATE THE MACHINE, IT IS VERY DANGEROUS AND COULD CAUSE INJURY.
- DO NOT USE THE MACHINE WITH WET HANDS.
- TO DISCONNECT FROM THE ELECTRICAL SUPPLY, PLEASE PULL THE PLUG AND NOT THE POWER CORD.
- PLEASE REFER TO QUALIFIED TECHNICIAN FOR ANY PROBLEMS OR QUESTIONS.

The manufacturer reserves the right to make any changes to the machine without prior notice.