

the Bambino™ Plus

Instruction Book - BES500



Breville®



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BREVILLE RECOMMENDS SAFETY FIRST

At Breville we are very safety conscious. We design and manufacture consumer products with the safety of you, our valued customer, foremost in mind. In addition we ask that you exercise a degree of care when using any electrical appliance and adhere to the following precautions.

IMPORTANT SAFEGUARDS

READ ALL INSTRUCTIONS BEFORE USE AND SAVE FOR FUTURE REFERENCE

- Carefully read all instructions before operating and save for future reference.
- Remove any packaging material and promotional labels or stickers before using the appliance for the first time.
- To eliminate a choking hazard for young children, remove and safely discard the protective cover fitted to the power plug of this appliance.
- Do not place the product near the edge of a bench or table during operation. Ensure the surface is level, clean and free of water and other substances.

- Do not let the cord hang over the edge of a bench or table, or become knotted. Keep away from hot gas or electric burner, or where it could touch a heated oven.
- Do not use the Bambino™ Plus inside a cabinet.
- This appliance can be used by children aged from 8 years and above if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Cleaning and user maintenance shall not be made by children unless they are aged from 8 years and above and supervised. Keep the appliance and its cord out of reach of children aged less than 8 years.
- Appliances can be used by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Regularly inspect the supply cord, plug and actual appliance for any damage. If found damaged in any way, immediately cease use of the appliance and return the entire appliance to the nearest authorised Breville Service Centre for examination, replacement or repair.
- Keep the appliance and accessories clean. Follow the cleaning instructions provided in this book. Any procedure not listed in this instruction booklet should be performed at an authorised Breville Service Centre.

- The installation of a residual current device (safety switch) is recommended to provide additional safety protection when using electrical appliances. It is advisable that a safety switch with a rated residual operating current not exceeding 30mA be installed in the electrical circuit supplying the appliance. See your electrician for professional advice.

SPECIFIC INSTRUCTIONS FOR BES500

- This appliance is recommended for household use only. Do not use this appliance for other than its intended use. Do not use in moving vehicles or boats. Do not use outdoors. Misuse may cause injury.
- If the appliance is to be:
 - left unattended
 - cleaned
 - moved
 - assembled; or
 - store
 always switch Off the espresso machine by simultaneously pressing the 1 CUP and STEAM buttons. Switch off at the power outlet and unplug.
- Ensure the product is properly assembled before first use.
- Do not use any other liquid apart from cold mains/ tap water. We do not recommend the use of highly filtered, de-mineralised or distilled water as this may affect the taste of the coffee and how the espresso machine is designed to function.
- Ensure the portafilter is firmly inserted and secured into the group head before starting the extraction. Never remove the portafilter during the brewing process.

- Do not leave the product unattended when in use.
- Do not touch hot surfaces. Allow the product to cool down before moving or cleaning any parts.
- Use caution when operating the machine, as metal surfaces are liable to get hot during use.
- Use caution when descaling as hot steam may be released. Before descaling, ensure drip tray is inserted. Refer to 'Care & Cleaning' for further instructions.



WARNING

Do not immerse power cord, power plug or appliance in water or any other liquid.



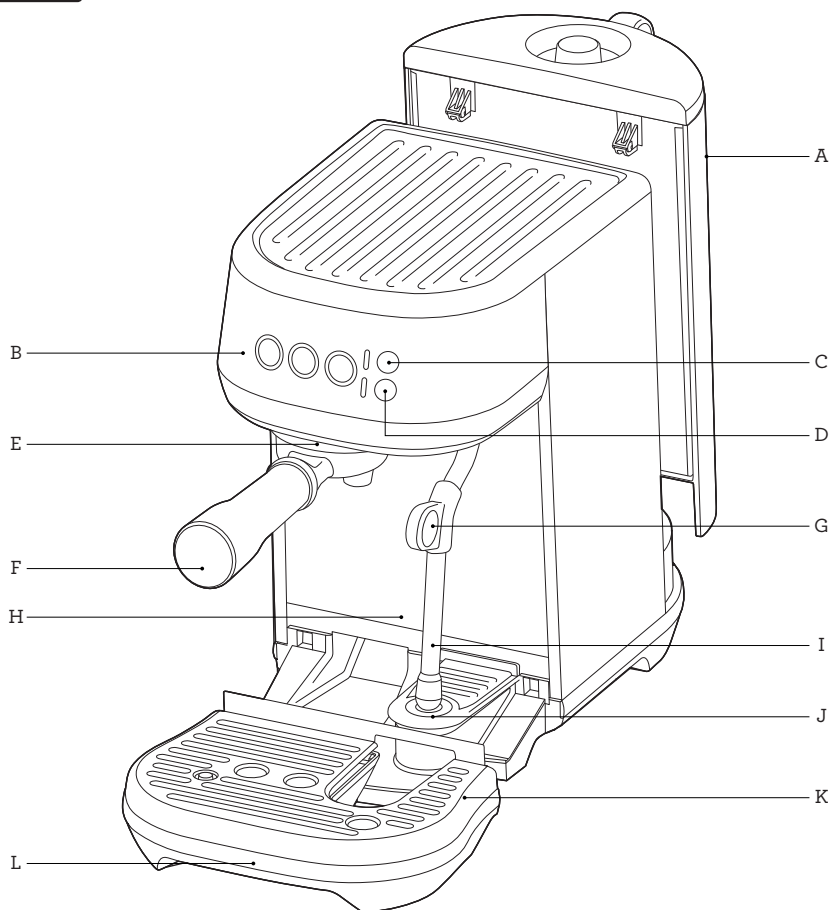
WARNING

Misuse may cause injury.

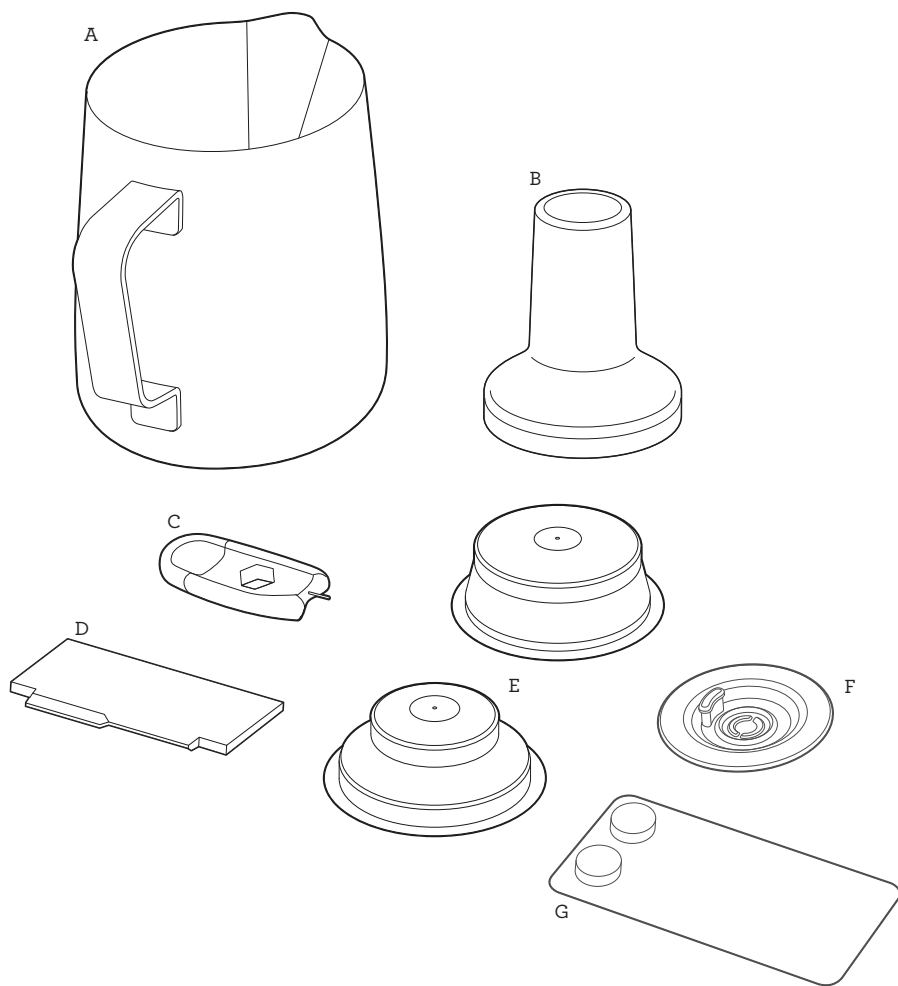
FOR HOUSEHOLD USE ONLY
SAVE THESE INSTRUCTIONS



Components



- | | |
|---|--|
| A. 1.9L removable water tank | F. 54mm stainless steel portafilter |
| B. Control panel
1 CUP, 2 CUP and STEAM buttons
With preset shot durations or
programmable durations and volumes | G. Steam wand grip |
| C. MILK TEMP settings
Select from Warm, Ideal and Hot | H. Extra-tall cup clearance for tall mugs |
| D. MILK FOAM settings
Select from Low, Medium and High | I. Steam wand
With automatic milk texturing |
| E. Group head | J. Milk jug temperature sensor |
| | K. Removable drip tray grid |
| | L. Removable drip tray
With full indicator |



ACCESSORIES

- A. Stainless steel milk jug
With MIN and MAX markings
- B. 54mm tamper
- C. Steam tip cleaning tool
- D. The Razor™ precision trimming tool
- E. Dual wall filter baskets (1 cup & 2 cup)
- F. Cleaning disc
- G. Espresso cleaning tablets



Bambino™ Plus Features

COMPACT FOOTPRINT

Cafe quality coffee in a compact machine.

AUTOMATIC HANDS FREE MILK TEXTURING

Automatically textures milk to the selected temperature and style from silky smooth latté to creamy cappuccino. Automatic purge removes residual milk from the steam wand when returned to the downward position.

THERMOJET™ TECHNOLOGY

Innovative heating system achieves ideal extraction temperature in 3 seconds.

PID TEMPERATURE CONTROL

Electronic PID temperature control for increased temperature stability.

LOW PRESSURE PRE-INFUSION

Applies low water pressure at the start of the extraction to gently expand grinds for an even extraction.

VOLUMETRIC CONTROL

Preset 1 & 2 cup volumes, manual over-ride or programmable shot volumes.

THE RAZOR™ DOSE TRIMMING TOOL

Patented twist blade trims down the puck to the right level for precision dosing and a consistent extraction.



Assembly

BEFORE FIRST USE

Machine Preparation

Remove and discard all labels and packaging materials attached to your machine. Ensure you have removed all parts and accessories before discarding the packaging.

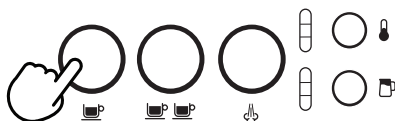
Clean the drip tray, drip tray grid, portafilter, filter baskets and milk jugs using warm water and a gentle dish washing liquid. Rinse well and dry thoroughly before use.



Functions

FIRST USE

1. Remove the water tank and fill with potable water to the indicated MAX line. Replace the water tank onto the machine.
2. Ensure that the drip tray is correctly positioned on the machine.
3. Plug the power cord into the power outlet and switch on.
4. Press the 1 CUP, 2 CUP or STEAM buttons to turn the machine on.



5. Press the 1 CUP button and the machine will commence its first use cycle.
6. Once complete, the machine will go into ready mode and all lights will be illuminated.

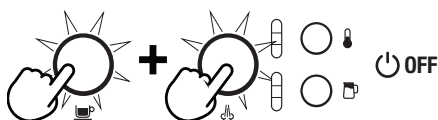


NOTE

The first use cycle is to rinse the machine and prime the heating system.

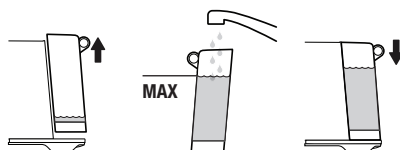
TURNING OFF MACHINE

To turn the machine off, press the 1 CUP and STEAM button simultaneously.



FILLING THE WATER TANK

Lift the water tank from the machine. Remove the water tank lid and add potable water to the water tank, filling to the MAX marking indicated.



Replace the water tank onto the machine, ensuring it is properly attached and sitting flush against the back of the machine.

If the 1 CUP, 2 CUP and STEAM buttons illuminate, the water tank has been correctly attached.

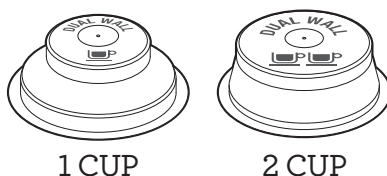
The machine will detect when the water level is low. The 1 CUP, 2 CUP and STEAM buttons will not be illuminated.



When this occurs, add water to the water tank. Once there is sufficient water, all buttons will be illuminated and the machine can be used.

FILTER BASKETS

This machine includes dual wall 1 Cup and 2 Cup filter baskets.



Use the 1 cup filter basket when brewing a single cup and the 2 cup filter baskets when brewing 2 cups or a stronger single cup or mug.

You will need to adjust the grind amount and size if switching from a single basket to a double basket, or vice versa.

The provided filter baskets are designed for:

1 Cup filter basket = 8-10g.

2 Cup filter basket = 16-19g



NOTE

Use Razor™ dose trimming tool to precisely control the dose of ground coffee **AFTER** you tamp.

THE GRIND

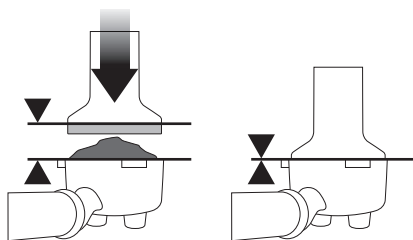
When grinding coffee beans, the grind size should be fine but not too fine. The grind size will affect the rate at which the water flows through the ground coffee in the filter basket and the taste of the espresso.

If the grind is too fine (looks like powder and feels like flour when rubbed between the fingers), the water will not flow through the coffee even when under pressure. The resulting espresso will be **OVER EXTRACTED**, dark in colour and bitter in flavour.

If the grind is too coarse, the water will flow through the ground coffee in the filter basket too quickly. The resulting espresso will be **UNDER EXTRACTED** and lacking in colour and flavour.

COFFEE DOSE AND TAMPING

- Insert the filter basket into the portafilter.
- Grind enough coffee to fill the filter basket.
- Tap the portafilter several times to collapse and distribute the coffee evenly in the filter basket.
- Using the tamper, tamp down firmly (approx. 15-20kgs of pressure). The amount of pressure is not as important as the consistent pressure every time.



- As a guide, the top edge of the cap on the tamper should be level with the top of the filter basket **AFTER** the coffee has been tamped.

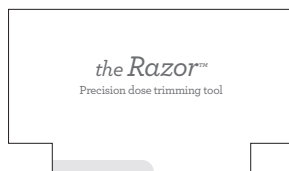


NOTE

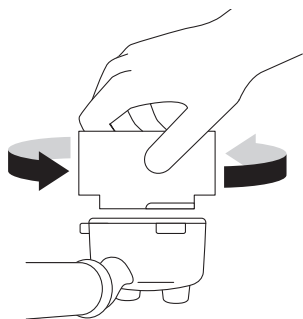
We recommend quality 100% Arabica beans with a 'Roasted On' date stamped on the bag, not a 'Best Before' or 'Use By' date. Coffee beans are best consumed between 5-20 days after the 'Roasted On' date. Stale coffee may pour too quickly from the portafilter spouts and taste bitter and watery.

TRIMMING THE DOSE

The Razor™ precision dose trimming tool allows you to trim the puck to the right level for a consistent extraction.



- Insert the Razor™ tool into the coffee basket until the shoulders of the tool rest on the rim of the basket. The blade of the dosing tool should penetrate the surface of the tamped coffee.
- Rotate the Razor™ dosing tool back and forth while holding the portafilter on an angle over the knock box to trim off excess coffee grinds. Your coffee filter is now dosed with the correct amount of coffee.



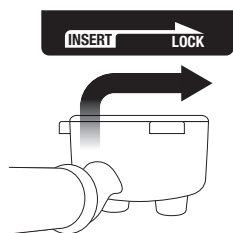
- Wipe excess coffee from the rim of the filter basket to ensure a proper seal is achieved in the group head.

PURGING THE GROUP HEAD

Before placing the portafilter into the group head, run a short flow of water through the group head by pressing the 1 CUP button. This will stabilise the temperature prior to extraction.

INSERTING THE PORTAFILTER

Place the portafilter underneath the group head so that the handle is aligned with the INSERT position. Insert the portafilter into the group head and rotate the handle towards the centre until resistance is felt.



Place your cup/s under the portafilter on the drip tray.

EXTRACTING ESPRESSO

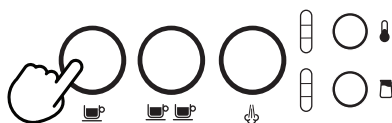
- As a guide the espresso will start to flow after 8-10 seconds (infusion time) and should be the consistency of dripping honey.
- If the espresso starts to flow after less than 6 seconds, you have either under dosed the filter basket and/or the grind is too coarse. This is an UNDER EXTRACTED shot.

- If the espresso starts to drip but doesn't flow after 15 seconds, the grind is too fine. This is an OVER EXTRACTED shot.

PRE-PROGRAMMED SHOT VOLUME

– 1 CUP

Press the 1 CUP button once, the button will flash indicating that it has been selected. A preset single espresso volume of approximately 30mls will be extracted. The machine will automatically stop once the pre-set volume has been extracted.



PRE-PROGRAMMED SHOT VOLUME

– 2 CUP

Press the 2 CUP button once, the button will flash indicating that it has been selected. A preset single espresso volume of approximately 60mls will be extracted. The machine will automatically stop once the pre-set volume has been extracted..



NOTE

Pressing the 1 CUP or 2 CUP buttons during a programmed espresso will immediately stop the extraction.

MANUAL PRE-INFUSION AND SHOT VOLUME

Press and hold the 1 CUP or 2 CUP button for the desired pre-infusion time. Release the button to start the extraction. Press the flashing button again to stop the extraction.

PROGRAMMING SHOT VOLUME

Press and hold the 1 CUP and 2 CUP buttons for 2 seconds, the buttons will illuminate and flash.



To set the 1 CUP volume:

- Press the 1 CUP button to start the extraction.
- Press the 1 CUP button again to stop the extraction. The modified volume will be saved.

To set the 2 CUP volume, follow the above steps but select the 2 CUP button to start and stop the extraction.

SETTING THE MILK TEMPERATURE

The machine has 3 milk temperature settings;

- 1 - Warm
- 2 - Ideal
- 3 - Hot



When turning on the espresso machine, the milk temperature setting will default to the last chosen setting. Press the MILK TEMP button until the desired temperature is illuminated.

SETTING THE MILK FOAM

The machine has 3 milk foam settings;

- 1 - Low
- 2 - Medium
- 3 - High



When turning on the machine, the milk foam setting will default to the last chosen setting. Press the MILK FOAM button until the desired foam setting is illuminated.

TEXTURING MILK

Different brands and types of milk and milk alternatives will texture differently. You may need to adjust the foam level according.

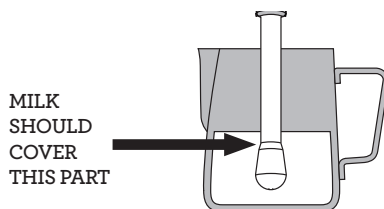
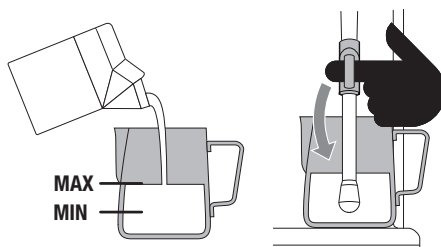


NOTE

Prior to texturing milk, it is recommended to momentarily purge the steam wand. To do this press the STEAM button to start purging and press it again to stop.

TO TEXTURE MILK

- Start with fresh cold milk.
- Fill the milk jug to between the min and max position.
- Lift the steam wand and insert into the milk jug.
- Lower the steam wand, ensuring it is fully down.
- The milk jug must rest on the milk temperature sensor located on the drip tray and the milk should cover the steam wand tip.



- Press the MILK TEMP and MILK FOAM buttons to select the desired settings.
- Press the STEAM button, the button will flash while texturing.
- The milk texturing will stop automatically when the selected milk temperature is reached.
- Lift the steam wand to remove the milk jug.
- Wipe the wand and tip with a clean damp cloth.
- Lower the steam wand to the down position and the steam wand will automatically purge.



CAUTION: BURN HAZARD

Pressurised steam can still be released, even after the machine has been switched off. Children must always be supervised.



NOTE

When the machine creates steam, a pumping noise can be heard. This is normal operation.



NOTE

Use only the supplied stainless steel milk jug to froth milk using this machine. The use of other containers may lead to dangerous conditions.

MANUAL MILK TEXTURING

Auto milk texturing and auto shut-off are disabled during manual milk texturing.

- Fill the milk jug to between the MIN and MAX markings.
- Lift the steam wand and insert into the milk jug with the steam wand tip 1-2cm below the surface of the milk, close to the right-hand side of the jug at a 3 o'clock position.
- Press the STEAM button to begin texturing



- Keep the steam wand tip just under the surface of the milk until the milk is spinning clockwise, producing a vortex (whirlpool effect).
- With the milk spinning, slowly lower the jug. This will bring the steam wand tip to the surface of the milk and start to introduce air into the milk.
- Gently break the surface of the milk with the tip to get the milk spinning fast enough.
- Keep the steam wand tip at or slightly below the surface, continuing to maintain the vortex. Texture the milk until sufficient volume is obtained.

- Lift the jug to lower the tip beneath the surface but keep the vortex spinning. The milk is at the correct temperature (60-65°C) when the jug is hot to touch.



- When texturing is complete, press the STEAM button.
- Remove the steam wand from the milk jug.
- Wipe the wand and tip with a clean damp cloth.
- Lower the steam wand to the down position and the steam wand will automatically purge.

STEAM WAND PURGING

After texturing milk, the steam wand must be returned to the lowered position and allowed to automatically purge. Not doing so, could result in the steam wand blocking.

If the steam wand remains in the raised position, the machine will display a lower steam wand alert; illuminating the MILK TEMP and MILK FOAM lights in a downwards pattern, identifying that the steam wand needs to be lowered.

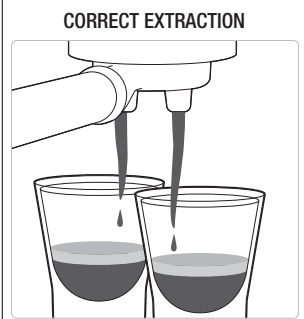
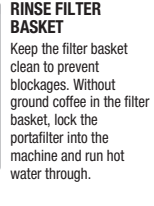
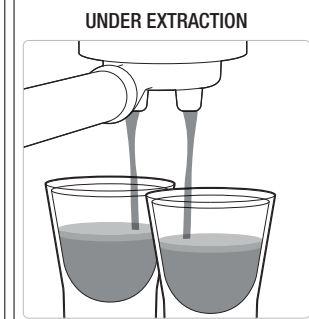
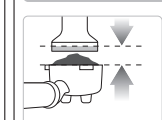
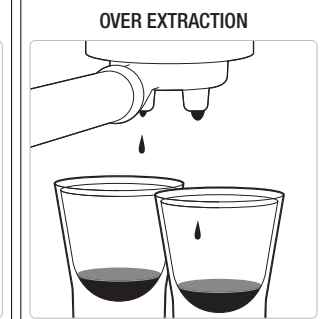
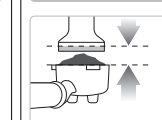
To manually commence the steam wand purge, with the steam wand lowered, press and hold the STEAM button for 5 seconds.

STEAM WAND BLOCKED

During milk texturing, if the machine detects that the steam wand is blocked, it will immediately stop operating and the STEAM button light will be off. Both the milk temperature and milk foam lights will fully illuminate and flash. These lights will flash until a steam tip clean cycle has been complete, see 'Cleaning the Steam Wand' for further instructions.

EXTRACTION TIPS

A great espresso is about achieving the perfect balance between sweetness, acidity, and bitterness. The flavour of your coffee will depend on many factors, such as the type of coffee beans, degree of roast freshness, coarseness or fineness of the grind, dose of ground coffee and tamping pressure. Experiment by adjusting these factors just one at a time to achieve the taste of your preference.

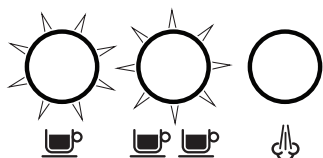
 CORRECT EXTRACTION • Flow starts after 8-12 secs • Flow slow like warm honey • Crema is golden brown with a fine mousse texture • Espresso is dark brown AFTER EXTRACTION  REMOVE USED GRINDS Used grinds will form a coffee 'puck'. If the puck is wet, refer to the 'Under Extraction' section. RINSE FILTER BASKET Keep the filter basket clean to prevent blockages. Without ground coffee in the filter basket, lock the portafilter into the machine and run hot water through. 	 UNDER EXTRACTION • Flow starts after 1-7 secs • Flow fast like water • Crema is thin and pale • Espresso is pale brown • Tastes bitter/sharp, weak and watery SOLUTIONS EXPERIMENT WITH GRIND: • Grind needs to be finer for a slower extraction. • Ensure you are controlling dose with the Razor™. Adjust & re-test  ALWAYS TAMP TO LINE Adjust & re-test Tamp using 15-20kgs of pressure. The top edge of metal cap on the tamper should be level with the top of the filter basket AFTER tamping. Trim the puck to the right level using the Razor™ precision dose trimming tool.	 OVER EXTRACTION • Flow starts after 13 secs • Flow drips or not at all • Crema is dark and spotty • Espresso is very dark brown • Tastes bitter and burnt SOLUTIONS EXPERIMENT WITH GRIND: • Grind needs to be coarser for a faster extraction. • Ensure you are controlling dose with the Razor™. Adjust & re-test  ALWAYS TAMP TO LINE Adjust & re-test Tamp using 15-20kgs of pressure. The top edge of metal cap on the tamper should be level with the top of the filter basket AFTER tamping. Trim the puck to the right level using the Razor™ precision dose trimming tool.
GRIND	GRIND DOSE	TAMP
OVER EXTRATED BITTER • ASTRINGENT	Too fine Too much Use razor to trim	Too heavy
BALANCED	Optimum 8-10g (1 cup) 16-19g (2 cup)	15-20kg
UNDER EXTRACTED UNDERDEVELOPED • SOUR	Too coarse Too little Increase dose & use razor to trim	Too light



Care & Cleaning

✦✦ CLEANING CYCLE

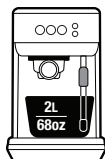
The machine will detect when 200 extractions have been carried out since the last cleaning cycle; this will be shown by the 1 CUP and 2 CUP buttons alternately flashing. This indicates that the group head needs cleaning. This is a flushing cycle and is separate from descaling.



To bypass the cleaning cycle; press the STEAM button. The machine will go back to ready mode, but will display cleaning alert again the next time that the machine is turned on.

TO PERFORM A CLEANING CYCLE

1. Insert the provided cleaning disc into the filter basket in the portafilter.
2. Place a cleaning tablet on top of the cleaning disc.
3. Lock the portafilter into the group head.
4. Empty the drip tray and replace onto the machine. Place a 2L / 68 fl.oz container under the portafilter and steam wand sitting on the drip tray.



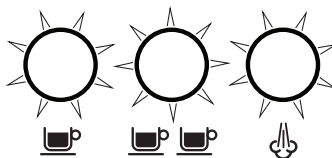
5. Fill the water tank to the MAX line then reattached to the machine, ensuring it is correctly attached.



6. Press and hold the 1 CUP and 2 CUP buttons for 5 seconds to enter the cleaning cycle mode.
7. The 1 CUP and 2 CUP buttons will remain illuminated. Press either 1 CUP or 2 CUP to begin the cleaning cycle. When the cycle is in progress, the lights will alternatively flash.
8. Once the cycle is complete the machine will ready to ready mode.
9. Remove and rinse the portafilter, cleaning disc, drip tray and container.

☼ DESCALING

After regular use, hard water can cause mineral build up in and on many of the inner functioning components, reducing the brewing flow, brewing temperature, power of the machine, and the taste of the espresso.



The machine will indicate that it requires descaling when the 1 CUP and STEAM button and the 2 CUP button flash alternately for 15 seconds. Pressing any of these buttons will cancel the alert and return the machine to ready mode.

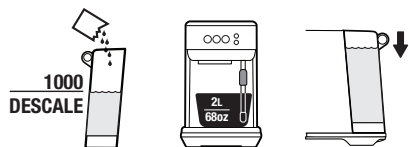


WARNING

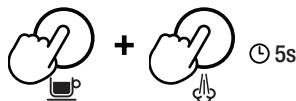
Do not immerse the power cord, power plug or appliance in water or any other liquid. The water tank should never be removed or completely emptied during descaling.

TO DESCALE

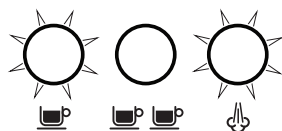
1. Empty the drip tray and re-insert into position on the machine.
2. Fill the water tank to the DESCALE line indicated and add the descaling agent to the water.



3. Place a 2L / 68 fl.oz container under the portafilter and steam wand.
4. Turn the machine off by simultaneously pressing the 1 CUP and STEAM buttons, and allow it to completely cool before descaling.



5. With the machine off, press the 1 CUP and STEAM buttons simultaneously for 5 seconds to enter descale mode.

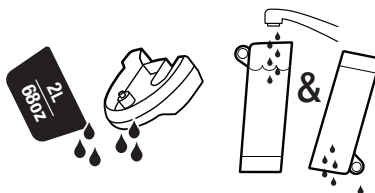


6. The 1 CUP and STEAM buttons will illuminate, indicating that the machine is ready to start descaling.



7. Press the 1 CUP or STEAM button to begin the descale cycle. These buttons will alternately flash throughout the cycle.

8. Once the descale solution has been used up, the descale mode will pause. Refill the water tank to the MAX line and empty the waste water container, then replace both parts on to the machine.
9. The 1 CUP and STEAM buttons will illuminate when the machine is ready. Press the 1 CUP or STEAM button to resume descaling.
10. When descaling is complete, the 1 CUP and STEAM button will alternately flash. The machine will then go into standby mode.



11. Remove and empty the waste water container. Rinse the drip tray and water tank and dry thoroughly before replacing them back onto the machine.

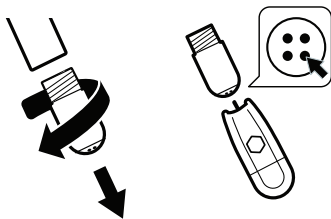
STEAM WAND BLOCKED

During milk texturing, if the machine detects that the steam wand is blocked, it will immediately stop operating and the STEAM button light will be off. Both the milk temperature and milk foam lights will fully illuminate and flash. These lights will flash until a manual steam purge has been completed.

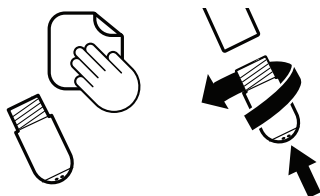


CLEANING THE STEAM WAND

- The steam wand should always be cleaned after texturing milk. Wipe the steam wand with a damp cloth.
- If any of the holes in the tip of the steam wand become blocked, it may reduce frothing performance. Manually purge the steam wand to try and clear the holes.
- If the steam wand remains blocked, unscrew the steam wand tip and use the cleaning tool to unblock the holes; cleaning tool is located in the back of the machine, under the water tank.



- Rinse the steam tip and wipe with a clean, dry cloth. Reassemble the steam wand by screwing the steam tip back on to the steam wand. Purge the steam wand after cleaning.



CLEANING THE FILTER BASKETS AND PORTAFILTER

- The filter baskets and portafilter should be rinsed under hot water directly after use to remove all residual coffee oils.
- If the holes in the filter baskets become blocked, use the steam wand cleaning tool to unblock the holes.

CLEANING THE SHOWER SCREEN

- The group head interior and shower screen should be wiped with a damp cloth to remove any ground coffee particles.
- Periodically run hot water through the machine with the filter basket and portafilter in place, without any ground coffee, to rinse out any residual coffee.

CLEANING THE DRIP TRAY

- The drip tray should be removed, emptied and cleaned after each use or when the drip tray indicator rises through the drip tray grid.
- Remove the drip tray grid and wash both parts in warm soapy water.

CLEANING THE OUTER HOUSING

- Wipe the outer housing with a soft, damp cloth and then polish with a soft, dry cloth.



NOTE

Do not use any abrasive cleaners, pads or cloths which can scratch the surfaces of the machine.



NOTE

Do not clean any of the parts or accessories in the dishwasher.



WARNING

Do not immerse the power cord, power plug or machine in water or any other liquid.

STORING YOUR MACHINE

Before storing, turn the machine off, switch off and remove the power plug from the power outlet. Empty the water tank and drip tray and ensure the machine is cool, clean and dry. Store in an upright position.

Do not place anything on top of machine.

RESET FACTORY ESPRESSO VOLUME SETTINGS

1. Turn the machine off, by pressing the 1 CUP and STEAM buttons simultaneously for 5 seconds.
2. Press and hold the 1 CUP and 2 CUP buttons for 5 seconds. Buttons will illuminate.
3. Press the 1 CUP or 2 CUP buttons and the light will flash 3 times to indicate that all volumes have been reset.
4. Machine will then return to ready mode.



NOTE

Press any other button to exit factory reset mode.



Troubleshooting

PROBLEM	POSSIBLE CAUSES	EASY SOLUTION
Water does not flow from the group head. No hot water.	Water tank is empty.	Fill tank.
	Water tank is not fully inserted and locked into position.	Push water tank down completely to lock into place.
	Machine needs to be descaled.	Perform descale cycle.
	Coffee is ground too finely and/or too much coffee in filter basket and/or over tamping and/or filter basket is blocked.	See below, 'Espresso only drips from the portafilter spouts or not at all'.
Espresso only drips from the portafilter spouts or not at all.	Coffee is ground too finely.	Use slightly coarser grind. Refer to 'Coffee Dose and Tamping' on page 10 and 'Extraction Tips' on page 14.
	Too much coffee in the filter basket.	Lower dose of coffee. After tamping, trim the coffee dose using the Razor™ dose trimming tool. Refer to 'Coffee Dose and Tamping' on page 10 and 'Extraction Tips' on page 14.
	Coffee tamped too firmly.	Tamp between or 15–20kg of pressure.
	Water tank is empty.	Fill tank.
	Water tank is not fully inserted and locked into position.	Push water tank down completely to lock into place.
	The filter basket may be blocked.	Use the pin on the end of the provided cleaning tool to unblock the hole(s).
	Machine needs to be descaled.	Perform descale cycle.
Water doesn't come through (the machine makes loud noise).	Water tank is empty or water level is below MIN.	Fill tank.

PROBLEM	POSSIBLE CAUSES	EASY SOLUTION
Espresso runs out too quickly.	Coffee is ground too coarsely.	Use slightly finer grind. Refer to 'Coffee Dose and Tamping' on page 10 and 'Extraction Tips' on page 14.
	Not enough coffee in the filter basket.	Increase dose of coffee. Tamp then use the Razor™ dose trimming tool to trim off excess coffee. Refer to 'Coffee Dose and Tamping' on page 10 and 'Extraction Tips' on page 14.
	Coffee tamped too lightly.	Tamp between 15–20kg of pressure.
Espresso runs out around the edge of the portafilter.	Portafilter not inserted in the group head correctly.	Ensure portafilter is completely inserted and rotated until resistance is felt.
	There are coffee grounds around the filter basket rim.	Clean excess coffee from the rim of the filter basket to ensure a proper seal in group head.
	Too much coffee in the filter basket.	Lower dose of coffee. Refer to 'Coffee Dose and Tamping', page 10. After tamping, trim the coffee dose using the Razor™ dose trimming tool.
No steam.	Machine has not reached operating temperature.	Allow time for the machine to reach operating temperature.
	Water tank is empty.	Fill tank.
	Water tank is not fully inserted and locked into position.	Push water tank down completely to lock into place.
	Machine needs to be decalcified.	Perform descale cycle.
	Steam wand is blocked.	Refer to 'Cleaning the Steam Wand', page 16.
Pulsing/pumping sound while extracting espresso or steaming milk.	The machine is carrying out the normal operation of the pump.	No action required as this is the normal operation of the machine.
	Water tank is empty.	Fill tank.
	Water tank is not fully inserted and locked into position.	Push water tank down completely to lock into place.

PROBLEM	POSSIBLE CAUSES	EASY SOLUTION
Coffee not hot enough.	Portafilter not pre-heated.	Rinse portafilter under hot water outlet. Dry thoroughly.
Milk too hot.	Jug incorrectly positioned.	Ensure milk jug is correctly positioned on sensor. Adjust milk temperature setting.
No crema.	Coffee tamped too lightly.	Tamp between 15-20kg of pressure.
	Coffee is ground too coarsely.	Use slightly finer grind. Refer to 'Coffee Dose and Tamping' on page 10 and 'Extraction Tips' on page 14.
	Coffee beans or pre-ground coffee are not fresh.	If grinding fresh whole coffee beans, use freshly roasted coffee beans with a 'Roasted On' date and consume between 5-20 days after that date. If using pre-ground coffee, use within a week of grinding.
	The filter basket may be blocked.	Use the pin on the end of the provided cleaning tool to unblock the hole(s).
Water leaking.	Auto purge feature. Immediately after the steam function, the machine will purge water into the drip tray. This ensures the thermocoil is at the optimal temperature.	Ensure the drip tray is firmly pushed in place and emptied whenever the indicator is displayed.
	Water tank is not fully inserted and locked into position.	Push water tank down completely to lock into place.
Machine is on but ceases to operate.	The safety thermal-cut out may have activated due to the pump overheating.	Press the 1 CUP and STEAM button simultaneously for 5 seconds to switch the machine off and unplug from the power outlet. Allow to cool for about 30-60 minutes. If problem persists, call Breville Support.
Too much/too little espresso is being delivered to the cup.	Grind amount and/or grind size settings and/or shot volumes require adjustment.	Adjust the grind amount and/or grind size settings. Refer to 'Coffee Dose and Tamping', page 10, 'The Grind', page 11 and 'Extraction Tips', page 14.



Notes

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