

# IMPORTANT SAFEGUARDS

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When using electrical appliances, basic safety precautions should always be followed, including the following:

- Read all instructions.
- Use this appliance only as described in this instruction manual.  
As with any electrical appliance, the instructions aim to cover as many situations as possible. Caution and common sense should be used when operating and installing this appliance.
- To protect against fire, electrical shock and personal injury, do not immerse cord, plug or appliance in water or other liquid.
- Never allow the appliance to be used by children.
- Unplug from the outlet when not in use and before cleaning. Allow to cool before fitting or taking off parts, and before cleaning the appliance.
- Do not operate with a damaged cord or plug, or after the appliance malfunctions, or has been damaged in any manner. Return the appliance to the nearest authorized service facility for examination, repair or adjustment.
- The use of accessory attachments or spare parts not recommended by the appliance manufacturer may result in fire, electrical shock or personal injury.
- Do not use outdoors.
- Do not let the cord hang over the edge of the table or counter, or touch hot surfaces.
- Do not place on or near a hot gas or electrical burner, or in a heated oven.
- Plug cord into the wall outlet. To disconnect, turn any control to "off", then remove plug from wall outlet.
- Do not use the appliance for other than the intended use. This appliance is to be utilized for domestic use only. Any other use is to be considered improper and therefore, dangerous.

**WARNING: To reduce the risk of fire or electric shock, do not remove the exterior of the unit or the cover. Don't attempt to repair or modify the machine, doing so will void the warranty. Repair should be done by authorized service personnel only!**

## SAVE THESE INSTRUCTIONS

THIS PRODUCT IS FOR HOUSEHOLD USE ONLY

## SHORT CORD INSTRUCTIONS

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- A short power cord is provided to reduce risks resulting from becoming entangled in or tripping over a longer cord.
- Longer, detachable power supply cords or extension cords are available and may be used if care is exercised in their use.
- If an extension cord is used, the marked electrical rating should be at least as great as the electrical rating of the appliance. If the appliance is provided with 3- wire, grounding type cord, the extension should be a GROUNDING TYPE 3 - WIRE CORD. The longer cord should be arranged so that it will not drape over the counter-top or table top where it can be pulled on by children or tripped over.
- Your product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

## 1. DESCRIPTION

### 1.1 Description of the machine

(page 3 - A )

- A1. Bean container lid
- A2. Bean container
- A3. Cup tray
- A4. Steam dial
- A5. Hot water spout
- A6. Steam spout
- A7. Frothing wand selection ring
- A8. Frothing wand
- A9. Frothing wand connection nozzle
- A10. Cup grille for espresso
- A11. Cup grille for glasses or mugs
- A12. Drip tray grille
- A13. Drip tray
- A14. Drip tray water level indicator
- A15. Water tank lid
- A16. Water tank extraction handle
- A17. Water tank
- A18. Water softener filter housing
- A19. Power cord connector socket
- A20. Main switch (ON/OFF)
- A21. Boiler outlet
- A22. Coffee grinder outlet (tamper station)
- A23. Tamping lever
- A24. Cover (see fig. 50)

### 1.2 Description of control panel

(page 3 - B )

- B1. ON/Standby button
- B2. Ground coffee quantity dial
- B3. "X2" button: to use the 2 coffees Easy Clean filter
- B4. Rinse button
- B5. "OK" button: to deliver the beverage/confirm
- B6. Hot water button
- B7. "My" button: to customise beverage quantity
- B8. Mode selector dial:
  - Espresso
  - Americano
  - Coffee
  - Descaling
- B9. Descale light
- B10. Steam ready light
- B11. Overtemperature light
- B12. Energy saving light
- B13. General alarm light
- B14. Bean container empty/no bean container light
- B15. No water light
- B16. Tamping light

B17. Pressure gauge

### 1.3 Description of the accessories

(page 2 - C )

- C1. Portafilter
- C2. Easy Clean filter 1 coffee
- C3. Easy Clean filter 2 coffee
- C4. "Total Hardness Test" indicator paper
- C5. Descaler
- C6. Water softener filter (\*if present)
- C7. Power cord
- C8. Tube brush
- C9. Milk pitcher

## 2. PREPARING THE MACHINE

Wash all accessories with warm water and mild detergent, then proceed as follows:

1. Insert the bean container (A2) in the coffee grinder (fig. 1);
2. Insert the drip tray (A13) complete with cup grille (A11) and drip tray grille (A12) (fig. 2);
3. Remove the water tank (A17) (fig. 3) and fill with fresh clean water, taking care not to exceed the MAX level (fig. 4).
4. Put the tank back in the machine.

**Important:** *Never operate the machine without water in the tank or without the tank.*

## 3. SETTING UP THE MACHINE

1. Plug the power cord connector (C7) into the socket (A19) at the back of the machine (fig. 5), then plug the plug into the wall socket. Make sure the main switch (A20) at the back of the machine is pressed and in the I position (fig. 6);
2. The  light (B6) corresponding to the button comes on and the  light (B15) flashes to indicate that you need to deliver water to fill the circuit (fig. 7);
3. Place a container with a minimum capacity of 100 ml (3.5 oz) under the hot water spout (A5) and frothing wand (A8) (fig. 8);
4. Press the button (B6) corresponding to the  light (fig. 9). Delivery begins and stops automatically. Empty the container.

Before using the machine, you must rinse the internal circuits. Proceed as follows:

5. Attach the portafilter (C1) complete with filter to the machine. To attach correctly, align the portafilter handle with "INSERT" (fig. 10), then turn the handle to the right until it is aligned in the "CLOSE" position;
6. Place a container under the portafilter and frothing wand (A8) (fig. 11);
7. Press the button (B4) corresponding to the  light (fig. 12). Delivery begins;

- When delivery is complete, turn the steam dial (A4) (fig. 13) and deliver steam for 10 seconds to rinse the steam circuit;
- Repeat points 7 and 8 until you have delivered at least 1 litre of water (about half the tank);
- Extract the water tank (A17) (fig. 3), rinse and fill with fresh clean water, taking care not to exceed the MAX level (fig. 4)

The machine is ready for use.

**Please note:** We also recommend rinsing the internal circuits if the machine is not used for a long period.

## 4. ACTIVATING THE WATER SOFTENER FILTER

Certain models are fitted with a water softener filter (C6). If this is not the case with your model, you are recommended to purchase one from De'Longhi Customer Services.

To use the filter correctly, follow the instructions below.

- Remove the filter from the packaging;
- Turn the date indicator disk (fig. 14) until the next 2 months of use are displayed;

**Please note:** The filter lasts about two months if the machine is used normally. If the coffee machine is left unused with the filter installed, it will last a maximum of 3 weeks.

- To activate the filter, run tap water through the hole in the filter (fig. 15) until water comes out of the openings at the side for more than a minute;
- Remove the tank (A17) (if necessary fill with water);
- Insert the filter in the water tank and immerse it completely for about ten seconds, sloping it and pressing it lightly to enable the air bubbles to escape (fig. 16);
- Place the filter in the filter housing (A18) (fig. 17) and press as far as it will go. Close the tank, then put the tank back in the machine;

The filter is now active and the coffee machine can be used.

## 5. MENU SETTINGS

### 5.1 Coffee temperature

To change the temperature of the water used to make the coffee, proceed as follows:

- Press and hold the  $\times 2$  (B3) and  $\text{my}$  (B7) buttons together for at least 3 seconds to access the menu. The  $\text{my}$  (B7) and  $\text{B16}$  (B16) lights alternate;
- Turn the mode selection dial (B8) to the  $\text{ESPRESSO}$  position. The  $\text{B11}$  light (B11) remains on steadily;
- Press the button corresponding to the desired selection as shown in the following table:

Button	Temperature
$\times 2$	Normal
$\text{my}$	High

- To exit the menu, press the  $\text{B1}$  button. (If the machine is left idle for about 1 minute, it exits automatically from the settings menu and returns to regular use mode.)

**Please note:** Once in the menu, you can modify all the menu functions as described in the previous sections.

### 5.2 Water hardness

The  $\text{B9}$  descale light (B9) comes on after a period of time established according to water hardness. The machine can also be programmed according to the actual hardness of the water supply in the various regions, in which case descaling may be required less frequently.

Proceed as follows:

- Remove the "TOTAL HARDNESS TEST" indicator paper (C4) from its pack.
- Immerse the paper completely in a glass of water for one second.
- Remove the paper from the water and shake lightly. After about a minute, 1, 2, 3, or 4 red squares form, depending on the hardness of the water. Each square corresponds to one level.
- Press and hold the  $\times 2$  (B3) and  $\text{my}$  (B7) buttons together for at least 3 seconds to access the menu. The  $\text{B15}$  (B15) and  $\text{B16}$  (B16) lights alternate;
- Turn the mode selector dial (B8) to the  $\text{AMERICANO}$  position. The  $\text{B9}$  (B9) remains on steadily;
- Press the button corresponding to the desired selection as shown in the following table:

Total Hardness Test result	Button	Level
	$\times 2$	1 soft water
	$\text{my}$	2 medium water
	$\text{OK}$	3 hard or very hard water

- To exit the menu, press the  $\text{B1}$  button. (If the machine is left idle for about 1 minute, it exits automatically from the settings menu and returns to regular use mode.)

### 5.3 Auto-off

Auto-off can be set so that the machine goes off after 15 minutes, one and a half hours, or three hours. Proceed as follows:

- Press and hold the  $\times 2$  (B3) and  $\text{my}$  (B7) buttons together for at least 3 seconds to access the menu. The  $\text{B15}$  (B15) and  $\text{B16}$  (B16) lights alternate;

- Turn the mode selection dial (B8) to the  COFFEE position. The  (B13) remains on steadily;
- Press the button corresponding to the desired selection as shown in the following table:

Button	Time
× 2	15 minutes
	1.5 hours
	3 hours

- To exit the menu, press the  (B1) button. (If the machine is left idle for about 1 minute, it exits automatically from the settings menu and returns to regular use mode).

#### 5.4 Default values

The machine can be reset to the default values. Proceed as follows:

- Press and hold the × 2 (B3) and  (B7) buttons together for at least 3 seconds to access the menu. The  (B15) and  (B16) lights alternate;
- Press and hold the  button for a few seconds until the corresponding light starts flashing;
- To exit the menu, press the  (B1) button. (If the machine is left idle for about 1 minute, it exits automatically from the settings menu and is ready for use again).

#### 5.5 Energy saving

Use this function to enable or disable energy saving. When enabled, the function reduces energy consumption in compliance with European regulations.

Proceed as follows:

- Press and hold the × 2 (B3) and  (B7) buttons together for at least 3 seconds to access the menu. The  (B15) and  (B16) lights alternate;
- Press the  (B6) button. The light (B12) comes on;
- To exit the menu, press the  (B1) button. (If the machine is left idle for about 1 minute, it exits automatically from the settings menu and is ready for use again).

#### Please note:

- If energy saving mode is active, you may have to wait a few seconds before delivery.
- When energy saving mode is disabled, steam is delivered immediately.

## 6. MAKING COFFEE

### 6.1 Preparing the coffee grinder

- Insert the bean container (A2), line up the printed marks and screw on by turning clockwise (fig. 1) until it is aligned with position "3" (factory setting);

- Remove the bean container lid (A1);
- Place the required quantity of coffee beans in the container (fig. 18);

**Please note:** If you want to use a flavored coffee, please use pre-ground coffee in the portafilter as opposed to flavored beans. See section "6.7 Using pre-ground coffee".

- Close the lid, pressing firmly.
- Check that the ground coffee quantity dial (B2) is on  position (factory setting).

**Important:** Do not remove the bean container while it contains beans.

### 6.2 Coffee beverages

#### • ESPRESSO

Beverage of Italian origin, a short coffee with an intense aroma.

Coffee	Pre-infusion	Quantity	Filter	× 2
Espresso 	✓	1 cup 1.2 fl oz / 35 ml		
		2 cups 2.4 fl oz / 70 ml		✓

Always check that the coffee quantity in the filter is correct (see paragraph "6.8 Adjusting the quantity of ground coffee in the filter").

#### • COFFEE

Beverage of European origin, a long coffee with a delicate aroma.

Coffee	Pre-infusion	Quantity	Filter	× 2
Coffee 	X	1 cup 2.4 fl oz / 70 ml		
		2 cups 4.7 fl oz / 140 ml		✓

Always check that the coffee quantity in the filter is correct (see paragraph "6.8 Adjusting the quantity of ground coffee in the filter").

- **AMERICANO**

This long coffee is a favourite in United States. Espresso is delivered first, followed by the hot water directly into the cup. Only one cup can be made at a time.

Coffee	Pre-infusion	Quantity	Filter	x2
Americano 	✓	1 cup 4.1 fl oz / 120 ml	 	 X
		<b>RECOMMENDED</b>		
		1 cup 8.1 fl oz / 240 ml	 	✓

Always check that the coffee quantity in the filter is correct (see paragraph "6.8 Adjusting the quantity of ground coffee in the filter").

### 6.3 Beverage selection

1. Turn the mode selector dial (B8) to select the desired coffee (see section "6.2 Coffee beverages").
2. If you use the 2 cup filter (C3), press the "2X" button (B3).

### 6.4 Select the coffee grinding (coarse to fine)

The grinding level affects delivery speed and therefore the quality of the coffee extraction.

The first time you use the machine, we recommend using the factory setting (medium grinding, setting "3") (fig. 19), then if you are not satisfied with the result, adjust the level according to your personal taste and the type of coffee by setting a finer (setting "1") or coarser grinding level (setting "6"), referring to the tips in section "6.8 Adjusting the quantity of ground coffee in the filter".

**Important:**

- Always adjust the coffee grinder while in operation.
- Adjust one grinding level at a time and make at least 5 coffees before adjusting again.

### 6.5 The coffee filters

The machine is provided with two coffee filters.

The 1 coffee filter (C2), has the  symbol marked on the bottom.

The 2 coffee filter (C3), has the  symbol marked on the bottom.

The ideal level of tamped coffee is marked inside both filters (fig. 20). If the quantity is above or below the level indicated, the result may not be satisfactory. The next times you use the coffee grinder, you can adjust the grinding level using the dial

(B2) (see section "6.8 Adjusting the quantity of ground coffee in the filter").

### 6.6 Grind the coffee directly into the filter

1. Place the ground coffee filter (C2) or (C3) in the portafilter (C1) (fig. 21);
2. Press the "X2" button if you are using the 2 coffee filter;
3. Attach the portafilter to the outlet of the coffee grinder (A22), aligning it with "INSERT", then turning it to the right (fig. 22). Grinding begins when the portafilter reaches the CLOSE position and stops automatically;

**Important:**

- While the machine is grinding coffee, you can perform a rinse, or produce hot water or steam at the same time.
- A second grinding cycle could begin if portafilter is removed before grinding cycle is completed and portafilter reinserted. Please listen for grinding to complete before adjusting portafilter or tamping.

4. Once grinding is complete, the  (B16) light flashes: pull the tamping lever (A23) as far as it will go. The force exerted on the coffee is indicated on the lever itself () (fig. 23). The  light remains on steady.
5. Remove the portafilter by turning it towards the left.

**Important:** to adjust the correct quantity ground automatically into the portafilter, see section "6.8 Adjusting the quantity of ground coffee in the filter".

If the portafilter is removed without tamping the coffee, flashes the  (B16) light. To tamp it, turn the knob (B2) to  position to disable the grinding and pull the lever (A23) : then re-attach the portafilter.

### 6.7 Using pre-ground coffee

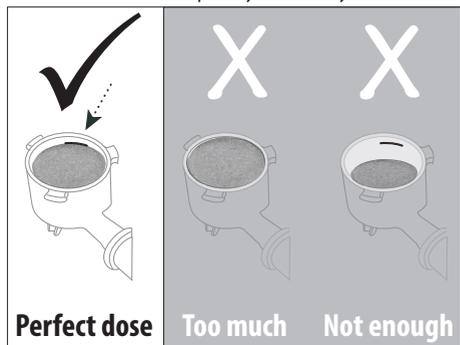
1. Place the ground coffee filter (C2) or (C3) in the portafilter (C1) (fig. 21);
2. Place the quantity of ground coffee in the filter;
3. Turn the dial (B2) to  position to disable the coffee grinder;
4. Attach the portafilter to the outlet of the coffee grinder (A22) aligning it with "INSERT", then turning it to the right (fig. 10).
5. Pull the tamping lever (A23) as far as it will go. The printing on the lever indicates the tamping force exerted () (fig. 23).
6. Remove the portafilter by turning it towards the left.

### 6.8 Adjusting the quantity of ground coffee in the filter

**Important:** When using the coffee grinder for the first time, leave the knob to  position (min). At the beginning, it is normal for a few attempts to be needed before finding the correct grinding level and quantity. We recommend starting by using the default

values, then if necessary changing them according to the tips in section "14. How to make perfect coffee".

A mark on the inside of the (C2) and (C3) filters shows the ideal quantity of tamped coffee (fig. 20). Adjust the (B2) dial to increase or decrease the quantity of ground coffee (fig. 24), in order to achieve the ideal quantity indicated by the mark.



## 6.9 Delivering the coffee

1. Attach the portafilter (C1) to the machine. To attach correctly, align the portafilter handle with "INSERT" (fig. 10) then turn the handle to the right until it is aligned in the "CLOSE" position;
2. Place the cup or cups under the portafilter spouts;
3. If you are using small cups, lower the cup grille (A10) to bring the portafilter spouts nearer the cup. This makes a better crema (fig. 25);
4. Using the dial (B8), select the desired beverage;
5. Press the "OK" button. The machine makes the coffee then stops automatically.

**Please note:** While the machine is making coffee, delivery can be interrupted at any moment by pressing the "OK" button. To remove the portafilter, turn the handle from right to left.

### Danger of burns

- To avoid splashes, never remove the portafilter while the machine is delivering coffee. Wait for a few seconds after delivery.
- If no coffee is delivered, then wait for about 1 minute before removing the portafilter. There could be a puff of steam caused by the residual pressure inside the machine. **Use caution.** Remove any cup or glass from the tray. Hold firmly the portafilter and remove it slowly.

## 6.10 Pressure gauge

The pressure gauge enables you to check that pressure is correct while the coffee is being delivered (fig. 26).

While making ESPRESSO coffee, the indicator will initially be in the "pre-infusion" sector and will then rotate to the "optimal zone" during delivery.

For more information, see section "14. How to make perfect coffee".

### Important:

- the pressure gauge only operates while coffee beverages are being made. If you are preparing hot water "☕" or using the steam function, the pressure gauge indicator does not move.
- **If the indicator goes on the red sector (over-pressure level):**
  - be sure that the coffee filter is thoroughly cleaned;
  - check the quantity of ground coffee in the filter: never exceed the mark impressed in the filter (perfect dose).

## 7. HOW TO MAKE MILK-BASED BEVERAGES

1. Fill the milk jug (C9) with the milk you want to heat/froth, bearing in mind that the milk doubles or triples in volume. For a denser more even froth, you should ideally use cow's milk at refrigerator temperature (about 5°C/41°F).
2. Choose the position of the ring (A7) (fig. 27) according to the beverage to be prepared (see following table):

Recommended position	Milk beverage to be prepared
FLAT ▲ —	Hot milk (not frothed) / Latte / Macchiato / Flat White
FOAM ▼ ▲	Cappuccino, Espresso Macchiato, Hot Milk (frothed)

3. Place the jug (C9) containing the milk under the frothing wand (A8) (fig. 28).
4. Immerse the frothing wand in the milk container. Never immerse the black ring (fig. 29).
5. Turn the dial to the ☁ position (fig. 30). Steam to heat the milk is delivered from the frothing wand. If the ring is in the FOAM position, the steam gives the milk a creamy frothy appearance (fig. 31). To obtain a creamier froth, immerse the frothing wand in the milk and rotate the container with slow up and down movements.
6. When the required temperature (the ideal is 60°C/140°F) and froth density is reached, interrupt steam delivery by turning the dial to the ○ position.
7. For beverages requiring it, prepare the coffee (see section "6. Making coffee"). Choose sufficiently large cups and place them on the espresso cup grille (A10). To use tall glasses, close the espresso cup grille (A10) and rest the glass on the cup grille for glasses or mugs (A11).
8. Pour the frothed milk into the cups. Sweeten to taste and if desired, sprinkle the froth with a little cocoa powder.

**Please note:** Preparing cappuccino: consider about 100 g (3.3 fl oz) of milk for each cup.

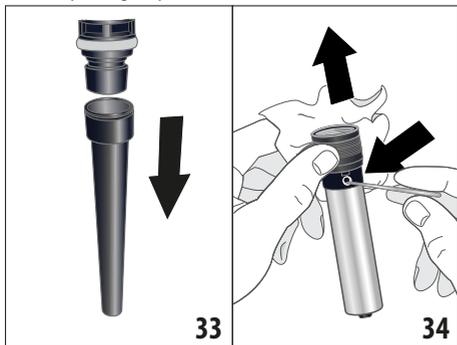
**Important:** You should not deliver steam for more than 60 seconds.

## 8. CLEANING THE FROTHING WAND AFTER USE

For hygiene reasons, the frothing wand should always be cleaned after use.

Proceed as follows:

1. Deliver a little steam for a few seconds (points 2, 5 and 6 of the previous section) by turning the steam deal to the ☺ position. This causes the frothing wand to discharge any milk left inside.
2. Press the (B1) ON/Standby button to turn the machine off.
3. Wait a few minutes for the frothing wand to cool down. With one hand, hold the frothing wand tube firmly, with the other, release the frothing wand by turning it counter-clockwise, then pull off downwards (fig. 33).
4. Remove the rubber steam connection nozzle from the spout by pulling it downwards (fig. 32).
5. Push the ring upwards and make sure the two holes shown by the arrows in fig. 34 are not blocked. If necessary, clean with a pin.
6. Replace the connection nozzle, move the ring downwards and put the frothing wand back on the nozzle, turning it and pushing it upwards until it is attached.



For thoroughly cleaning, use De'Longhi cleaner.

## 9. CUSTOMISING THE VOLUME OF COFFEE BEVERAGES WITH THE (my) BUTTON (B7)

1. Prepare the machine to deliver 1 or 2 cups of the coffee beverage you want to make, as far as attaching the portafilter (C1) complete with the (C2) or (C3) filter and ground coffee.
2. Select the coffee beverage to program, by turning the (B8) dial.
3. Press the (my) button: the light corresponding to "OK" button (B5) comes on steadily and the light corresponding to the (my) button flashes.

4. Press the "OK" button to start delivering the beverage. The lights corresponding to the "OK" and (my) buttons flash.
5. When you have reached the desired quantity of the beverage, press the "OK" button again.
6. Press the (my) button to save the new setting. The machine is ready for use again and the (my) button remains on.

If you do not want to save the new setting, press any other button.

Programming AMERICANO coffee: follow the procedure described above for the quantities of both coffee and hot water.

### Please note:

- Only the coffee beverages can be programmed; you can not program steam and hot water quantity.
- "X2" drinks can be programmed separately.

## 9.1 Beverage reset (my)

To reset the default beverage quantities, press and hold the (my) button (B7) until it goes off.

The selected beverage is reset to the default values.

## 10. DELIVERING HOT WATER

1. Choose the cup and place it on the correct cup grille ((A10) or (A11));
2. Press the ☺ button (B6): the machine delivers hot water from the spout (A5) then goes off automatically.
3. To stop delivery, press again the ☺ button.

**Important:** You should not deliver hot water for more than 60 seconds.

## 11. CLEANING

### 11.1 Cleaning the machine

The following parts of the machine must be cleaned regularly:

- drip tray (A13) complete with cup grille (A11) and drip tray grille (A12);
- espresso cup grille (A10);
- coffee filters (C2) and (C3);
- bean container (A2);
- coffee grinder burrs;
- coffee grinder outlet (A22) (smart tamping station);
- boiler outlet (A21);
- water tank (A17);
- frothing wand (A8) as described in section "8. Cleaning the frothing wand after use".

### Important!

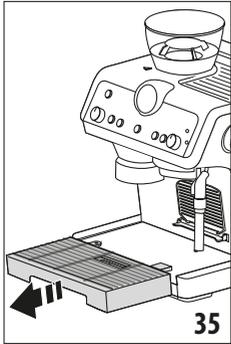
- Do not use solvents, abrasive detergents or alcohol to clean the coffee machine.
- Do not use metal objects to remove residues or coffee deposits as they could scratch metal or plastic surfaces.

- None of the components of the machine can be washed in a dishwasher with the exception of the drip tray (A13) and cup grille (A10) and (A11).
- If the machine was not used for more than a week, before using it again, we recommend you perform a rinse cycle as described in section "3. Setting up the machine".

**Danger!**

- While cleaning, never immerse the coffee maker in water. It is an electrical machine.
- Before cleaning the outside of the machine, turn it off, unplug from the mains socket and allow to cool.

**11.2 Cleaning the drip tray**

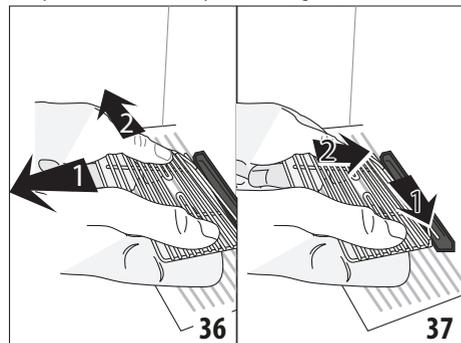


The drip tray is fitted with a level indicator (A14) showing the amount of water it contains. Before the indicator protrudes from the cup tray, the drip tray must be emptied and cleaned, otherwise the water may overflow the edge and damage the machine, the surface it rests on or the surrounding area.

1. Remove the drip tray (fig. 35).
2. Remove the cup grille (A7), the drip tray grille (A12) and the drip tray water level indicator (A14), empty the water and clean the tray with a cloth, then reassemble the drip tray.
3. Put the drip tray back in place.

**11.3 Cleaning the small cup grille**

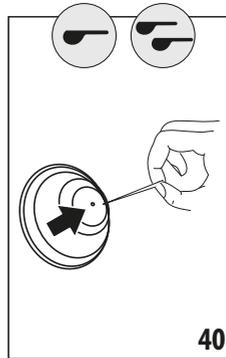
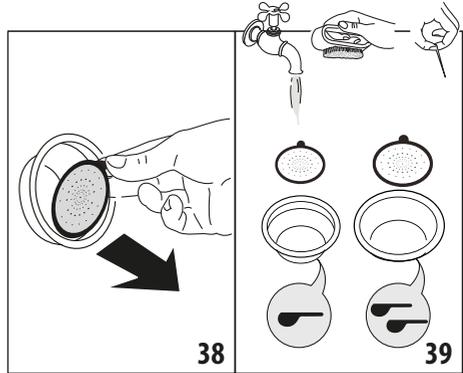
1. Extract the grille (A10) by pulling it from the left, then removing it from the support (fig. 36).
2. Clean the support with a cloth and wash the grille (dishwasher safe).
3. Put the grille back on the support from the right side, then push until it is correctly attached (fig. 37).



**11.4 Cleaning the coffee filters**

Clean the coffee filters weekly:

1. Remove the perforated filter from filter housing by pulling the tab (fig. 38).



2. Rinse the filters under running water (fig. 39).
3. Make sure the holes are not clogged. If necessary, clean with a pin or niddle (fig. 40).
4. Place the perforated filter back in the filter housing and press as far as it will go.

**11.5 Cleaning the boiler outlet**

After every 200 coffees, rinse the boiler outlet: Press the rinsing (☉) button (B4) until around 500 ml (16.9 fl oz) of water is delivered.

**11.6 Cleaning the water tank**

1. Clean the water tank regularly (about once a month) and whenever you replace the water softener filter (C6) (\*if present) with a damp cloth and a little mild washing up liquid.
2. Remove the filter (\*if present) and rinse with running water.
3. Replace the filter (\*if present), fill the tank with fresh water and replace the tank.
4. (Models with water softener filter only) Deliver about 100 ml (3.4 fl oz) of water.

**Danger!**

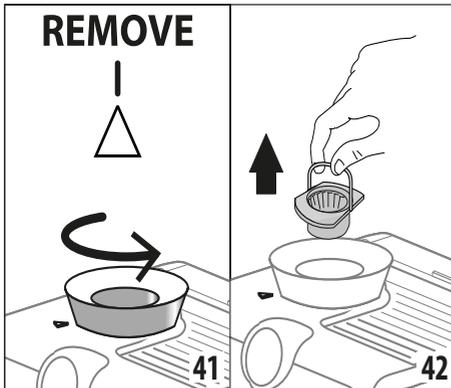
While cleaning, never immerse the coffee maker in water. It is an electrical machine.

## 11.7 Cleaning the bean container

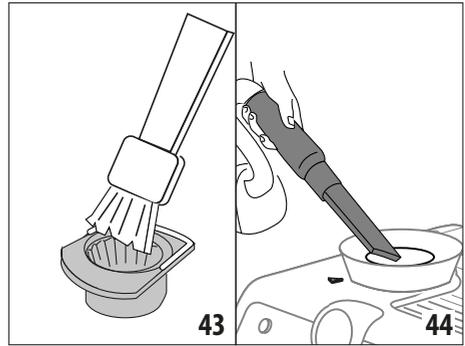
1. Make sure the bean container (A2) is empty, then release by turning it counterclockwise and extract from the machine.
2. Wash the container and lid (A1) with warm water. Do not wash the components in a dishwasher or use detergent! Dry all accessories thoroughly before using again.
3. Remove coffee residues (fig. 44).
4. Put the container back as described in section "3. Setting up the machine".

## 11.8 Cleaning the burrs

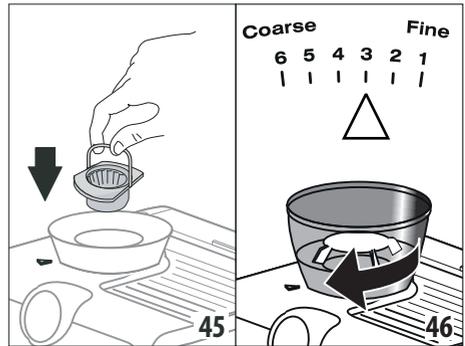
1. Empty the bean container (if necessary, using a vacuum cleaner to remove any remaining beans).
2. Attach the portafilter and operate the grinder without beans to free the coffee guide: attach the portafilter to the outlet of the coffee grinder (A22) aligning it with "INSERT", then turning it to the right (fig. 22). Grinding begins when the portafilter reaches the CLOSE position and stops automatically.
3. Remove the bean container as described in the previous section "11.7 Cleaning the bean container".
4. Turn the fineness selector counterclockwise as far as it will go to the "REMOVE" position (fig. 41).



5. Lift and extract the upper burr, taking it by the special handle (fig 42).
6. Clean the inside of the machine with the tube brush (C8) (fig. 43) and use a vacuum cleaner to remove coffee residues (fig. 44).



7. Put the upper burr back in the machine;



- Insert the burr in its housing (fig. 45);
  - Turn the fineness selector to the desired grinding position (fig. 46);
  - Verify that the burr is well inserted by pulling it by the handle: the burr is correctly inserted if it does not move;
8. Use a brush to remove any coffee residues from the outlet of the coffee grinder (A22).

## 11.9 Extra grinding adjustment

Over time, the burrs will wear down and the quantity of ground coffee will diminish. When the grinding adjustment illustrated on the "6.4 Select the coffee grinding (coarse to fine)" is not sufficient, you can select a new grinding range. Proceed as follows:

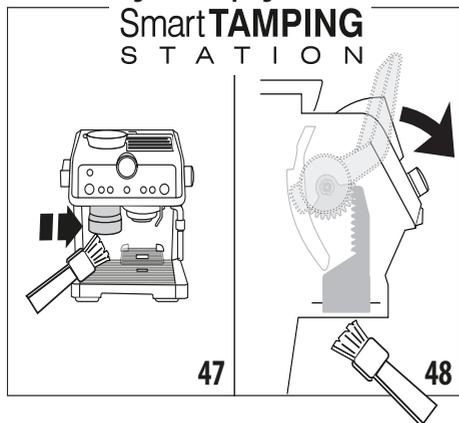
1. Press and hold the  $\times 2$  (B3) and  $\text{my}$  (B7) buttons together for at least 3 seconds to access the menu. The  $\text{my}$  (B15) and  $\text{my}$  (B16) lights alternate;
2. Turn the mode selector dial (B8) to the  $\text{my}$  position: the  $\text{my}$  (B14) light remains on steady.
3. Select the new grinding range by pressing the  $\text{my}$  (B4) button;
4. Press the  $\text{my}$  (B1) button to exit the menu. (If the machine is left idle for about 1 minute, it exits automatically from the settings menu and is ready for use again);

- Turn the dial (B2) to  position ("min"), then proceed as illustrated for the first use ("6.4 Select the coffee grinding (coarse to fine)").

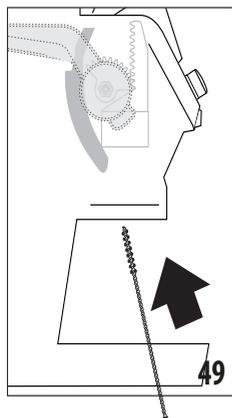
If problem persists, replace with a new burrs purchased an authorised Customer Services centre.

Then turn the knob (B2) to  (min) position and proceed as illustrated at the first use ("6.4 Select the coffee grinding (coarse to fine)").

### 11.10 Cleaning the "tamping station"



- Clean the attachment area with a brush (fig. 47).
- Pull the lever (A23) as far as it will go and clean the tamper cylinder with a brush (fig. 48). Then release the lever;
- Use the tube brush (C8) to clean the coffee guide (fig. 49).



### 11.11 Other cleaning operations

- Do not use solvents or abrasive detergents to clean the coffee maker. Use a soft damp cloth only.
- Clean the portafilter cup. For thoroughly cleaning, use De'Longhi cleaner.

- It is important to use De'Longhi descaler only. Using unsuitable descaler and/or performing descaling incorrectly may result in faults not covered by the manufacturer's warranty.

Proceed as follows:

- (IF PRESENT, REMOVE THE WATER SOFTENER FILTER). Pour the descaler into the tank up to the level  A marked inside the tank (equal to one 100ml/3.3 fl oz packet), then add water (litre) up to the level  B.
- If the machine is off, press the ON/Standby button (B1).
- Make sure the portafilter is not attached and position a container under the spouts (A5), (A6) and the boiler outlet (A21) (fig. 8).
- Turn the mode selector dial (B8) to  the (B8) position. The  light flashes and the "OK" light comes on.
- Press "OK" (B5) to start descaling.
- The descale program starts and the descaler liquid comes out of the spouts and boiler outlet. The descale program removes limescale deposits from inside the machine by automatically performing a series of rinses and pauses until the tank is empty.
- Delivery stops and the  (B15) and  lights corresponding to the rinse button (B4) come on.
- Empty the container used to collect the descaler solution and replace it empty under the spouts.
- Remove the water tank, empty any residues of descaler solution, rinse with running water and fill with fresh water up to the MAX level. Put the tank back in its housing.
- Press the  button. The machine rinses the internal circuits and delivers water from all three spouts.
- When rinsing is complete, delivery stops. All the LEDs flash briefly and the machine prepares to be used again.
- Empty the container used to collect the rinse water.
- Extract and empty the drip tray, then put back in the machine.
- Extract the tank, fill with fresh water, then put back in the machine.
- Turn the mode selector dial to one of the coffee positions.

## 13. TECHNICAL DATA

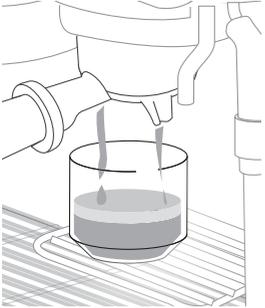
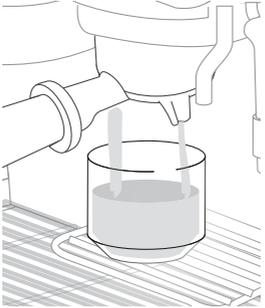
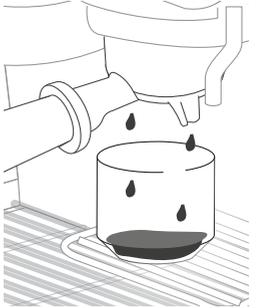
Voltage:	120V-60Hz
Power:	1450W
Size LxDxH:	375x368x445 mm/ 14.8x14.4x17.5 in
Pressure:	19 bar
Water tank capacity:	2 L/67.6 fl oz
Cord length:	1200 mm/47.21 in
Weight:	12 kg/ 26.4 lbs

## 12. DESCALING

Descal the machine when the  light (B9) comes on.

- Before use, read the instructions and the labelling on the descaler pack.

## 14. HOW TO MAKE PERFECT COFFEE

PERFECT ESPRESSO	UNDER-EXTRACTED ESPRESSO	OVER-EXTRACTED ESPRESSO
		
CREMA: nut-brown colored with red-dish lights and light coloured streaks, 3-4 mm/ 0.11-0.15 in thick	CREMA: clear and thin with large bubbles	CREMA: dark and thin, only at the edges
BODY: dense, full-flavoured and smooth	BODY: thin, watery	BODY: excessive
TASTE: well-balanced and lingering	TASTE: weak and short-lived	TASTE: strong, astringent, lingering and bitter on the palate
AROMA: intense	AROMA: not pronounced	AROMA: weak, with a hint of burnt coffee
GRINDING LEVEL: Correct	GRINDING LEVEL: too coarse. Adjust the grinder to a lower position, following the instructions in section "6.4 Select the grinding level"	GRINDING LEVEL: too fine. Adjust the grinder to a higher position, following the instructions in section "6.4 Select the grinding level"
QUANTITY COFFEE IN FILTER: Correct	QUANTITY COFFEE IN FILTER: Not enough. Increase the quantity by turning the dial "B2. Ground coffee quantity dial" as described in section "6.8 Adjusting the quantity of ground coffee in the filter"	QUANTITY COFFEE IN FILTER: Too much: reduce the quantity by turning the dial "B2. Ground coffee quantity dial" as described in section "6.8 Adjusting the quantity of ground coffee in the filter"
TAMPING: Correct	TAMPING: Too light	TAMPING: Too heavy

## 15. EXPLANATION OF LIGHTS

LIGHTS	EXPLANATION OF LIGHTS	OPERATION
All the lights flash briefly	Turning the machine on	Self-diagnosis
 on	Insufficient water in tank or water tank not inserted correctly	Fill the tank or extract the tank and put it back correctly
 on	Energy saving is enabled	See section "5.5 Energy saving" to disable the function
 on	The machine is on and ready for use	The machine is at the right temperature to deliver steam. To deliver steam, turn the steam dial (A4)
 flashing	The machine is on and energy saving is enabled. The steam dial (A4) is in the steam delivery position	The light flashes to indicate that the machine is preparing to deliver steam. Delivery begins as soon as the machine is at temperature
	The machine is heating up for use	The machine is at temperature when the light remains on steadily
	Steam delivery has ended and the steam dial (A4) is in the steam position	Turn the dial to the ○ position.
 flashing	The portafilter has been detached from the coffee grinder without tamping	Detach the portafilter and press the coffee as described in section "6.7 Using pre-ground coffee"
	Coffee have to be tamped	Coffee has been grinded and the portafilter is attached to the coffee grinder
 on	Coffee has been correctly tamped	
 on	The bean container is empty	Fill the bean container
 flashing	The bean container is missing or has not been screwed correctly in place	Fill the bean container or put it back correctly
 flashing	The temperature is too high to deliver coffee	Wait for the temperature to drop
 flashing	Descaling is underway	Complete the operation as described in section "12. Descaling"
	Descaling has ended and the dial (B8) is in the "descaling" position	Turn the mode selector dial to one of the "coffee positions"

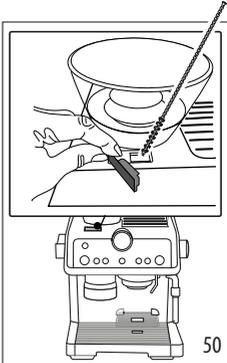
## 16. ALARMS

LIGHTS	ALARM	SOLUTION
 on	General alarm	Machine needs service. Contact Customer Services
 +  on steadily	The drip tray (A13) is missing or has not been inserted correctly	Extract the drip tray then put back correctly in the machine
 on	Descaling must be performed	Proceed as described in section "12. Descaling"
 flashes quickly	The knob (B8) is in descaling position	Turn the knob to one of the coffee beverage position
 on +  +  flashing	The portafilter has been detached from the coffee grinder before grinding has ended	Repeat grinding
 +  flashing	The machine is being turned on for the first time and the water circuit must be filled.	Proceed as described in section "3. Setting up the machine"
	If the water softener filter (C6) is present, an air bubble may have been released inside the circuit, obstructing delivery	Remove water softener filter and press the button (B6) corresponding to the  light (fig. 9). Delivery begins and stops automatically. Reinsert water softener as described in section "4. Activating the water softener filter"
	The grinding is too fine and the coffee is delivered too slowly or not at all	Extract the portafilter and repeat the operations to make the coffee, bearing in mind the indications in section "6.4 Select the coffee grinding (coarse to fine)" and the "14. How to make perfect coffee" table.
	The tank has been inserted incorrectly and the valves on the bottom are not open	Press the tank down lightly to open the valves on the bottom
	Scale in the water circuit	Descale as described in section "12. Descaling"

LIGHTS	ALARM	SOLUTION
 +  flashing	If the water softener filter (C6) is present, an air bubble may have been released inside the circuit, obstructing delivery	Remove water softener filter and press the button (B6) corresponding to the  light (fig. 9). Delivery begins and stops automatically. Reinsert water softener as described in section "4. Activating the water softener filter"
	The grinding is too fine and the coffee is delivered too slowly or not at all	Extract the portafilter using caution. Remove any cup or glass from the tray. Hold firmly the portafilter and remove it slowly. Then repeat the operations to make the coffee, bearing in mind the indications in section "6.4 Select the coffee grinding (coarse to fine)" and the "14. How to make perfect coffee" table.
	Excessive coffee dosage in the filter caused overpressure and the coffee is delivered too slowly or not at all	
	The filter is blocked, or the perforated filter is missing	Clean as described in section "11.4 Cleaning the coffee filters" and check that the perforated filter is correctly inserted
	The tank has been inserted incorrectly and the valves on the bottom are not open	Press the tank down lightly to open the valves on the bottom
	Scale in the water circuit	Descale as described in section "12. Descaling"

## 17. TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Espresso coffee is not delivered any more	No water in the tank (A17)	Fill the tank
	The  light is on and the  light is flashing to indicate that the coffee or steam circuit is empty.	Press the button corresponding to the  light.
	The filter is clogged or the perforated filter is missing	Clean as described in section "11.4 Cleaning the coffee filters" and check that the perforated filter is correctly inserted
	The tank has been inserted incorrectly and the valves on the bottom are not open	Press the tank down lightly to open the valves on the bottom
	Scale in the water circuit	Descale as described in section "12. Descaling"
The espresso coffee drips from the edges of the portafilter rather than the holes	The portafilter has been inserted incorrectly or is dirty	Attach the portafilter correctly and rotate firmly as far as it will go
	The espresso boiler gasket has lost elasticity or is dirty	Have the espresso boiler gasket replaced by Customer Services
	The filter is blocked, or the perforated filter is missing	Clean as described in section "11.4 Cleaning the coffee filters"

PROBLEM	CAUSE	SOLUTION
The portafilter cannot be attached to the machine	The ground coffee has not been tamped or is too much	Clean as described in section "6.6 Grind the coffee directly into the filter"
The coffee crema is too light (delivered from the spout too fast)	The machine settings need reviewing	See section "14. How to make perfect coffee"
The coffee crema is too dark (delivered from the spout too slowly)	The machine settings need reviewing	See section "14. How to make perfect coffee"
No milk froth is formed when making cappuccino	The ring (A7) is in the "FLAT" (NO FROTH) position	Push the ring into the "FOAM" position
	Milk not cold enough	Always use milk at refrigerator temperature
	The frothing wand (A8) is dirty	Clean the frothing wand as described in section "8. Cleaning the frothing wand after use"
	Scale in the water circuit	Descale as described in section "12. Descaling"
At the end of descaling, the machine requests a further rinse	During the rinse cycle, the water tank has not been filled to the MAX level	Repeat the rinse cycle from point (8) of section "12. Descaling"
The coffee grinder doesn't work	Inside the coffee grinder there is a non-grinderable foreign body	Clean the grinder as indicated in par."11.8 Cleaning the burrs", making sure you have removed all the grains from the bean container (A2) before removing it. Before reinserting the burr, carefully vacuum any residue from its seat (fig. 44).
After grinding, the coffee filter is empty	The bean hopper chute guide is clogged	Clean as described in section "11.10 Cleaning the "tamping station"". If the problem persists, access the guide by opening the hatch and free it using the brush(fig. 50).
After grinding, there is too much coffee in the filter		
		 <p style="text-align: right;">50</p>

PROBLEM	CAUSE	SOLUTION
You want to change coffee quality	All the coffee beans in the machine must be removed	<ul style="list-style-type: none"> <li>• Empty the bean container (if necessary, vacuum the remaining beans).</li> <li>• Attach the portafilter and operate the grinder without beans to free the coffee guide: attach the portafilter to the coffee grinder outlet (A22) aligning it to "INSERT" and turning it towards right (fig. 22). Grinding starts when the portafilter reaches CLOSE position and automatically ends. Repeat until the filter stays empty.</li> <li>• Insert new coffee beans in the container.</li> </ul>