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You can read the recommendations in the user guide, the technical guide or the installation guide for DELONGHI ECAM 23.450. S. You'll find the answers to all your questions on the DELONGHI ECAM 23.450. S in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

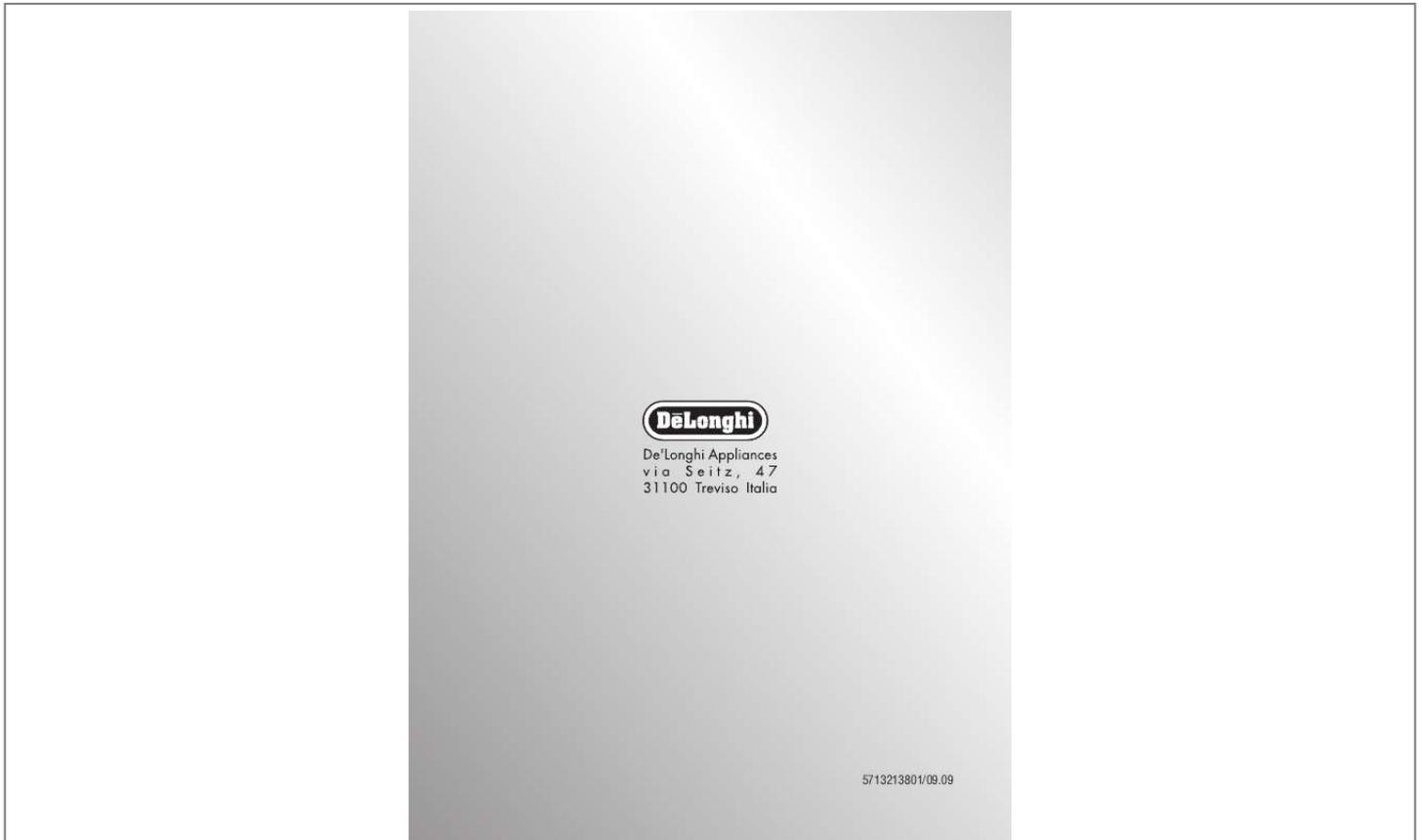
**User manual DELONGHI ECAM 23.450. S**

**User guide DELONGHI ECAM 23.450. S**

**Operating instructions DELONGHI ECAM 23.450. S**

**Instructions for use DELONGHI ECAM 23.450. S**

**Instruction manual DELONGHI ECAM 23.450. S**



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..... 12 6 INTRODUCTION Thank you for choosing the ECAM 23.450 automatic coffee and cappuccino maker.

We hope you enjoy using your new appliance. Take a few minutes to read these instructions. This will avoid all risks and damage to the machine. Symbols used in these instructions Important warnings are identified by these symbols. These warnings must absolutely be respected.

**Danger!** Failure to observe the warning could result in possibly life threatening injury from electric shock. **Important!** Failure to observe the warning could result in injury or damage to the appliance. **Danger of burns!** Failure to observe the warning could result in scalds. Please note : This symbol identifies important advice or information for the user. letters in brackets The letters in brackets refer to the legend in the Description of the Appliance on page 3.

**Troubleshooting and repairs** In the event of problems, first try and resolve them following the information given in the section "Displayed messages" on page 22 and "Troubleshooting" on page 23. If this does not resolve the problem or you require further information, you should consult Customer Services by calling the number given on the annexed "Customer Service" sheet. If your country is not among those listed on the sheet, call the number given in the guarantee. If repairs are required, contact De'Longhi Customer Services only. The addresses are given in the guarantee certificate provided with the appliance. **SAFETY** Fundamental safety warnings **Danger!** This is an electrical appliance and may cause electric shock. You should therefore respect the following safety warnings: · Never touch the appliance with damp hands or feet. · Never touch the plug with damp hands. · Make sure the socket used is freely accessible at all times, enabling the appliance to be unplugged when necessary. · Unplug directly from the plug only.

Never pull the power cable as you could damage it. · To disconnect the appliance completely, place the main switch at the back of the appliance in the 0 position (fig. 6). · If the appliance is faulty, do not attempt to repair. Turn it off, unplug from the mains socket and contact Customer Services. · If the plug or power cable is damaged, it must be replaced by De'Longhi Customer Services only to avoid all risk. **Important!** · Keep all packaging (plastic bags, polystyrene foam) away from children. · The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children must be supervised to ensure they do not play with the appliance. **Danger: Risk of burns!** This appliance produces hot water and steam may form while it is in operation.

Avoid contact with splashes of water or hot steam. **7 DESIGNATED USE** This appliance is designed and made to prepare coffee and heat drinks. All other use is considered improper. This appliance is not suitable for commercial use. The manufacturer is not liable for damage deriving from improper use of the appliance.

This is an household appliance only. It is not intended to be used in: · staff kitchen areas in shops, offices and other working environments; · farmhouses; · by clients in hotels, motels and other residential type environments; · bed and breakfast type environments. **DESCRIPTION** Description of the appliance (page 3 - A ) A1. Control panel A2. Grinding adjustment knob A3.

Cup shelf A4. Beans container lid A5. Pre-ground coffee funnel lid A6. Pre-ground coffee funnel A7. Beans container A8. Main switch A9. Water tank A10. Infuser door A11. Infuser A12. Hot water/steam nozzle A13.

Coffee spout (adjustable height) A14. Coffee grounds container A15. Condensate tray A16. Cup tray A17. Drip tray water level indicator A18. Drip tray A19. Cup lighting Description of the control panel (page 2 - B ) A number of buttons on the panel have a double function. This is indicated in brackets in the description. B1. Display: guides the user in using the appliance B2.

Selection knob: turn to select the required quantity of coffee. (When in the settings MENU, turn to select the required function). B3. button: turns the appliance on and off. B4.

P button to access the menu B5. button: to perform a rinse cycle. (When in the settings MENU, it acts as the "ESC" button to exit from the selected function and go back to the main menu). B6. aroma selection button: to select the coffee taste.

B7. button: to make 1 cup of coffee with the settings displayed. B8. button: to make 2 cups of coffee with the settings displayed. B9. button: to deliver hot water. (When you access the MENU: "OK" button to confirm the selection made) B10. CAPPUCCINO button: to prepare cappuccino or frothed milk. **8 INSTRUCTIONS** Read these instructions carefully before using the appliance. - Failure to follow these instructions may result in burns or damage to the

*appliance.*



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The manufacturer is not liable for damage deriving from failure to respect these instructions. Please note: Keep these instructions If the appliance is passed to other persons, they must also be provided with these instructions. Description of the accessories (page 2 - C ) C1. Measure C2. Cleaning brush C3. Descaler bottle C4. Water softener filter (certain models only) C5. Hot water spout Description of milk container (page 2 - D ) D1. Froth adjustment knob D2. Frothed milk spout (adjustable) D3.

Milk intake tube D4. CLEAN button and correctly installed socket with a minimum current rating of 10A only. If the power socket does not match the plug on the appliance, have the socket replaced with a suitable type by a qualified professional. Using the appliance for the first time Please note! ·

Coffee has been used to factory test the appliance and it is therefore completely normal for there to be traces of coffee in the mill. The machine is, however, guaranteed to be new.

· You should customise water hardness as soon as possible following the instructions in the section "Setting water hardness" on page 19. 1. Plug the appliance into the mains socket and make sure the main switch on the back of the appliance is in the I position (fig. 1). You must first choose the language (the languages scroll through at intervals of about 3 seconds).

2. When "English" appears, press the button (fig. 2) for a few seconds until "ENGLISH installed" is displayed. Follow the instructions displayed by the appliance: 3. "FILLTANK!": remove the water tank, fill to the MAX line with fresh water (fig. 3A) then replace in the appliance (fig. 3B). 4. "INSERT WATER SPOUT!": Check that the hot water spout is inserted on the nozzle and place a container with a minimum capacity of 100 ml underneath (fig. 4).

5. "Hot water... Confirm?" is displayed; 6. Press the button to confirm. The appliance delivers water from the spout then goes off automatically. The coffee maker is now ready for normal use. Please note! · When using the appliance for the first time, you need to make 4-5 cups of coffee or 4-5 cappuccinos before the appliance starts to give satisfactory results. · When making the first 5-6 cappuccinos, it is normal to hear the noise of boiling water.

After this, the noise diminishes. 9 PRELIMINARY CHECKS Checking the appliance After removing the packaging, make sure the product is complete and undamaged and that all accessories are present. Do not use the appliance if it is visibly damaged. Contact De'Longhi Customer Services. Installing the appliance Important! When in play and the appliance goes off.

Auto-start You can set the auto-start time in order to have the appliance ready at a certain time (for example in the morning) so you can make coffee immediately. Please note! To activate this function, the time must already have been set correctly. To activate Auto-on, proceed as follows: 1. Press the P button to enter the menu; 2. Turn the selection knob (fig.

8) until "Autostart" is displayed; 3. Press the button. "Activate?" is displayed; 4. Press the button to confirm; 5. Turn the selection knob to choose the hours; 6. Press the button to confirm; 7. Turn the selection knob (fig. 8) to change the minutes; 8. Press the button to confirm; 9. Press the button to exit the menu.

Once the time has been confirmed, activation of auto-start is indicated by the symbol displayed alongside the time and under the Auto-start item in the menu. To deactivate the function: 1. Select auto-start from the menu; 2. Press the button. "Deactivate?" is displayed; 3. Press the button to confirm. The symbol is no longer displayed. Setting the temperature To modify the temperature (low, medium, high) of the water used to make the coffee, proceed as follows: 1. Press the P button to enter the menu; 2. Turn the selection knob (fig.

8) until "Set temperature" is displayed; 3. Press the button; 4. Turn the selection knob until the required temperature (high, medium, low) is displayed; 5. Press the button to confirm; 6. Press the button to exit the menu.

Energy Saving Use this function to activate or deactivate energy saving mode. This mode is active by default, reducing energy consumption in compliance with current European regulations. When energy saving mode is active, an asterisk appears below "Energy Saving" in the menu. To deactivate "energy saving" mode, proceed as follows: 1. Press the P button to enter the menu; 2.

Turn the selection knob (fig. 8) until "Energy Saving" is displayed; 3. Press the button. "Deactivate?" is displayed; 4. Press the button to deactivate energy saving mode; 5. Then press the button to exit the menu. When the function is active, if the machine is not used for about 1 minute, "Energy Saving" is displayed. Please note! When in energy saving mode, a few seconds may elapse before the first coffee is delivered as the appliance must heat up again. Setting water hardness For instructions on setting water hardness, see page 19. Setting the language To change the language for the display, proceed as follows: 1.

Press the P button to enter the menu; 2. Turn the selection knob (fig. 8) until "Set language" is displayed; 3. Press the button; 4. Turn the selection knob until the required language is displayed; 5. Press the button to confirm; 6. Press the button to exit the menu. Install filter For instructions on how to install the filter, see the section "Installing the filter" on page 19. Replacing the filter For instructions on how to replace the filter, see the section "Replacing the filter" on page 20. 11 Activate/deactivate the beep This activates or deactivates the beep emitted by the machine each time the buttons are pressed or an accessory is inserted/removed.

The beep is active by default. To deactivate or reactivate the beep, proceed as follows: 1. Press the P button to enter the menu; 2. Turn the selection knob (fig. 8) until "Beep" is displayed; 3.

Press the button. "Deactivate?" or "Activate?" is displayed; 4. Press the button to activate or deactivate the beep (or the button to exit); 5. Activation of the beep is indicated by an asterisk after the "Beep" item in the menu. Press the button to exit the menu.

Cup lighting This function activates or deactivates the cup lighting. The lighting is activated by default. The lights come on each time coffee or cappuccino is made and during each rinse cycle. To deactivate or reactivate this function, proceed as follows: 1. Press the P button to enter the menu; 2. Turn the selection knob (fig. 8) until "Cup lighting" is displayed. 3. Press the button. "Deactivate?" or "Activate?" is displayed; 4.

Press the button to activate or deactivate the cup lighting (or the button to exit); 5. When the function is active, an asterisk appears after "Cup lighting" in the menu. Press the button to exit the menu.



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*Default values (reset)* This resets all menu settings and programmed quantities back to the default values (with the exception of the language which remains as set previously). To reset the default values, proceed as follows: 1. Press the P button to enter the menu; 2. Turn the selection knob (fig. 8) until "Default values" is displayed; 3. Press the button; 4. The message "Confirm?" is displayed.

5. Press the button to confirm and exit. 12 Statistics function This displays statistics relating to the machine. To display, proceed as follows: 1. Press the P button to enter the menu; 2.

Turn the selection knob (fig. 8) until "Statistics" is displayed; 3. Press the button; 4. Turn the selection knob (fig. 8) to verify: - how many coffees have been made; - how many times the machine has been descaled; - the total number of litres of water delivered; - how many cappuccinos have been made; - how many times the water softener filter has been replaced.

5. Press the button twice to exit the menu. **MAKING COFFEE** Selecting the coffee taste The appliance is set by default to make coffee with a standard taste. You can also choose one of these tastes: Extra-mild taste Mild taste Standard taste Strong taste Extra-strong taste To change the taste, press the button (fig. 7) repeatedly until the required taste is displayed. Selecting the quantity of coffee in the cup The appliance is set by default to make a standard quantity of coffee. To select the quantity of coffee, turn the selection knob (fig. 8) until the message corresponding to the required quantity of coffee is displayed: Coffee selected **MY COFFEE ESPRESSO STANDARD LONG EXTRA LONG** quantity in cup (ml) Programmable: from 20 to 180 40 60 90 120 Customising the "my coffee" quantity The appliance is set by default to automatically deliver 30 ml of "my coffee". To modify this quantity, proceed as follows: 1. Place a cup under the coffee spouts (fig.

9). 2. Turn the selection knob until "MY COFFEE" is displayed. 3. Keep the button (fig. 12) pressed until the message "1 MY COFFEE Program quantity" is displayed and coffee delivery begins. Release the button. 4. As soon as the coffee in the cup reaches the required level, press the button (fig. 12) again.

The quantity of coffee in the cup has now been programmed. Adjusting the coffee mill The coffee mill is preset in the factory to make coffee correctly and should not require adjusting initially. However, if after making the first few coffees you find that the coffee is too thin and not creamy enough or that delivery is too slow (a drop at a time), this can be corrected by adjusting the grinding adjustment knob (fig. 10). Please note! The grinding adjustment knob must only be turned when the coffee mill is in operation.

If the coffee is delivered too slowly or not at all, turn one 4 click clockwise towards "7". For fuller bodied creamier coffee on the other hand, turn one click anticlockwise towards "1" (do not turn more than one click at a time otherwise the coffee could be delivered a drop at a time). These adjustments will only be evident after at least 2 cups of coffee have been delivered. If this adjustment does not obtain the desired result, turn the knob another click. Tips for a hotter coffee For a hotter coffee, before delivery you are recommended to: · rinsetheappliance through by pressing the button.

Hot water flows out of the coffee 13 spouts and heats the internal circuit of the machine so that the coffee delivered will be hotter. · warmthecupswithhotwater(usingthehot water function); · select the "high" coffee temperature in the menu. Making coffee using coffee beans Important! Do not use caramelised or candied coffee beans as they could stick to the coffee mill and make it unusable. 1. Fill the container with coffee beans (fig. 11). 2. Place under the coffee spouts: - 1 cup if you want one coffee (fig. 9); - 2 cups if you want 2 coffees. 3.

Lower the spouts as near as possible to the cup. This makes a creamier coffee (fig. 12). 4. Press the button corresponding to the number of coffees required (1 cup or 2 cups, figs. 9 and 13). 5. Preparation begins. The amount of coffee selected is displayed together with a progress bar which gradually fills as preparation progresses. Please note: · Whilethecoffeemakerismakingcoffee,delivery can be interrupted at any moment by pressing one of the two coffee buttons ( or ).

· Attheendofdelivery,toincreasethequantity of coffee in the cup, just press (within 3 seconds) one of the coffee buttons ( or ). Once the coffee has been made, the appliance is ready to use again. Please note! For hotter coffee, see the section "Tips for a hotter coffee" (page 13). Important! ·

Ifthecoffeeisdeliveredadropatatime,too thin and not creamy enough or too cold, read the tips in the "Troubleshooting" section on page 23. ·

Variousmessages(filltank,emptygrounds container, etc.

) will be displayed while using the machine. Their meaning is explained in the section "Displayed messages" (page 22). Making coffee using pre-ground coffee Important! · Never add pre-ground coffee when the machine is off or it could spread through the inside of the machine and dirty it. This could damage the appliance. · Never use more than 1 level measure or it could dirty the inside of the coffee maker or block the funnel.

Please note! If you use pre-ground coffee, you can only make one cup of coffee at a time. 1. Press the button (fig. 7) until "Preground" is displayed. 2. Make sure the funnel is not blocked, then add one level measure of pre-ground coffee (fig. 14). 3. Place a cup under the coffee spouts. 4.

Press the 1 cup coffee button (fig. 9). 5. Preparation begins. The amount of coffee selected is displayed together with a progress bar which gradually fills as preparation progresses. Please note! If "Energy Saving" mode is active, you may have to wait a few seconds before the first coffee is delivered. **MAKING DRINKS WITH MILK** Filling and attaching the milk container 1. Remove the lid (fig. 15); 2. Fill the milk container with a sufficient quantity of milk, not exceeding the MAX level marked on the container (fig.

16). Each mark on the side of the container corresponds to 100 ml of milk. Please note! · Foradensermoreevenfroth,youshould use skimmed or partially skimmed milk at refrigerator temperature (about 5°C). · Toavoidproducingmilkwithpoorfroth or large bubbles, always clean the milk lid and hot water nozzle as described in the section "Cleaning the milk container" on pages 15 and 17. 3.

Make sure the milk intake tube is correctly inserted in the bottom of the milk container lid (fig. 17). 4. Place the lid back on the milk container. 5. Remove the hot water spout from the nozzle (fig. 18). 6. Attach the container to the nozzle and push as far as it will go (fig. 19). The machine emits a beep. 7. Place a sufficiently large cup under the coffee and frothed milk spouts.



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Adjust the length of the milk spout. To move it nearer the cup, simply pull it downwards (fig.

20). 8. Follow the instructions below for each function. Making cappuccino or macchiato 1. After attaching the milk container, turn the froth adjustment knob on the milk container lid between position 2 and 3 (fig. 21). 2. Press the CAPPUCINO button. "CAPPUCINO" is displayed, together with a progress bar which fills gradually as preparation proceeds. If the froth is not satisfactory, turn the froth adjustment knob towards 2 (= less froth) or towards 3 (= more froth).

3. After delivering the frothed milk, the machine automatically makes the coffee. 14 Please note! · If during delivery you want to stop making milk or coffee, press the CAPPUCINO button twice. · Do not leave the milk container out of the refrigerator for longer than strictly necessary. The warmer the milk (5°C ideal), the poorer the froth will be.

· It is normal for steam to be given off from the metal cup tray at the end of milk delivery. Making frothed milk (without coffee) Proceed as described in the previous paragraph (Making cappuccino or macchiato), pressing the CAPPUCINO button twice instead of once. Please note! If during delivery you want to stop making milk or coffee, press the CAPPUCINO button once. Preparing milk (unfrothed and without coffee) Proceed as described in the previous paragraph (Making frothed milk), turning the froth adjustment knob to position 1, instead of position 2. Cleaning the milk frother with the CLEAN button "Press CLEAN button" flashes on the display each time you use a milk function.

To eliminate all milk residues, proceed as follows: 1. Leave the milk container in the machine (you do not need to empty it); 2. Place a cup or other recipient under the frothed milk spout. 3. Press the CLEAN button (fig. 33) and keep pressing until the progress bar which appears on the display together with the message "Cleaning..." is complete. Please note! · If you are making a number of cappuccinos one after the other, you do not need to clean by pressing the CLEAN button each time you make a cappuccino.

Just press it once after making the last cappuccino (the appliance can continue making cappuccino or coffee even if the CLEAN button is not pressed).

@@@ To change these quantities, proceed as follows: 1. Place a cup under the coffee and milk spouts. 2. @@3. Release the button. The appliance starts delivering milk. 4. @@5. @@ "Coffee for Cappucc.

Program Quantity" is displayed. 6. @@ Coffee delivery stops. @@ Danger of burns. Never leave the machine unsupervised while delivering hot water. The spout becomes hot during delivery. Hold by the handle only. 1. Make sure the hot water spout is attached correctly (fig. 4).

2. @@3. Press the button (fig. 2). @@4. @@ To interrupt delivery of hot water manually, press the button again. Please note! @@ Change the quantity of water delivered automatically. @@ To modify these quantities, proceed as follows: 1. Position a container under the spout. 2.

@@3. @@ The machine is now reprogrammed with the new quantity. bottom. This can be done with the spatula on the brush provided. ·

Check the condensate tray (red) and empty if necessary. Important! @@ @@ Cleaning the drip tray and condensate tray Important! @@24). @@ To remove the drip tray: 1. Remove the drip tray and the grounds container (fig. 23); 2. Empty the drip tray and grounds container and wash them; 3.

Check the red condensate tray and empty if necessary. 4. Replace the drip tray and grounds container. Cleaning the inside of the coffee maker Danger of electric shock! @@ Never immerse the coffee maker in water. 1.

@@ @@2. Remove the residues with a vacuum cleaner (fig. 25). Cleaning the water tank 1. @@ · Do not use solvents, abrasive detergents or alcohol to clean the coffee maker.

With De'Longhi superautomatic coffee makers, you need not use chemical products to clean the machine. · None of the components can be washed in a dishwasher apart from the milk container (D). · Do not use metal objects to remove encrustations or coffee deposits as they could scratch metal or plastic surfaces. Cleaning the coffee grounds container When "EMPTY GROUNDS CONTAINER" is displayed, the grounds container must be emptied and cleaned. Until the grounds container has been cleaned, the appliance continues to display the message and coffee cannot be made. Important! Danger of burns If you make a number of cappuccinos one after the other, the metal cup tray becomes hot. Wait for it to cool down before touching it and handle it from the front only. To clean (with the machine on): · Remove the drip tray (fig. 23), empty and clean. · Empty the grounds container and clean thoroughly to remove all residues left on the once a month and whenever you replace the water softener filter (if provided) 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 provided), fill the tank with fresh water and replace the tank. Cleaning the coffee spouts 1. Regularly clean the coffee spouts with a sponge or cloth (fig. 26A). 2. Check the holes in the coffee spout are not blocked. If necessary, remove coffee deposits with a toothpick (fig.

26B). Cleaning the pre-ground coffee funnel Check regularly (about once a month) that the pre-ground coffee funnel (A6) is not blocked. If necessary, remove coffee deposits with the brush (C2) supplied. Cleaning the infuser The infuser (A11) must be cleaned at least once a month. Important! The infuser may not be extracted when the machine is on.

1. Make sure the machine is correctly turned off (see "Turning the appliance off" on page 10). 2. Remove the water tank. 3.

Open the infuser door (fig. 27) on the right side. 4. Press the two red release buttons inwards and at the same time pull the infuser outwards (fig. 28). Important! RINSE WITH WATER ONLY NO WASHING UP LIQUID - NO DISH WASHER Clean the infuser without using washing up liquid as it could be damaged. 5. Soak the infuser in water for about 5 minutes, then rinse under the tap. 6. Use the brush (C2) to remove any coffee residues left in the infuser housing, visible through the infuser door.

7. After cleaning, replace the infuser by sliding it onto the internal support; then push the 17 PUSH symbol fully in until it clicks into place. Please note! If the infuser is difficult to insert, before insertion, adapt it to the right size by pressing the two levers shown in the figure. 7. Once inserted, make sure the two red buttons have snapped out. 8. Close the infuser door. 9. Replace the water tank. Cleaning the milk container Clean the milk container as described below each time you prepare milk: 1.

Remove the lid. 2. Remove the milk spout and intake tube. 3. Turn the froth adjustment knob to the "INSERT" position (see figure) and pull it off upwards.

4. Wash all the components thoroughly with hot water and mild washing-up liquid. All components are dishwasher safe, PU SH 5.



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6. 7.

8. placing them in the top basket of the dishwasher. Make sure there are no milk residues in the hollow and groove under the knob (see figure alongside). If necessary, scrape the groove with a toothpick. Rinse the inside of the froth adjustment knob under running water (see figure alongside). Check that the intake tube and spout are not clogged with milk residues. Replace the knob (lining up the arrow with the word "INSERT") the spout and the milk intake tube. Place the lid back on the milk container. ce as described also invalidates the guarantee. 1.

Turn the machine on. 2. Press the P button to enter the menu. 3. Turn the selection knob until "Descaling" is displayed. 4. Select by pressing the button: "Descaling Confirm?" is displayed. Press again to activate the function. 5. The message "Add descaler Confirm?" alternating to "EMPTY GROUNDS CONTAINER" 6.

Completely empty the water tank (A9) and remove the water softener filter (if present); then empty the drip tray and the empty grounds container and re-insert them. 7. Pour the descaler into the tank up to the level A (corresponding to a 100 ml pack) marked on the back of the tank (fig. 29A), then add water (one litre) up to level B (fig. 29B); reinsert the water tank.

8. Place an empty container with a minimum capacity of 1.5 litres under the hot water spout (fig. 4). Important! Danger of burns Hot water containing acid flows from the cappuccino maker.

Avoid contact with splashes of water. 9. Press the button to confirm introduction of the solution. The message "Descaling..." is displayed. The descaling programme starts and the descaler liquid comes out of the water spout. The descale programme automatically performs a series of rinses and pauses to remove limescale deposits from inside the machine. After about 30 minutes, the message "FILL TANK!" is displayed.

7. The appliance is now ready for rinsing through with clean water. Remove the water tank, empty, rinse under running water, fill with clean water and replace. "Rinsing" is displayed. "Rinsing... Confirm?" is displayed. 8. Empty the container used to collect the descaler solution and replace it empty under the cappuccino maker.

9. Press the button to start rinsing. Hot water flows out of the spout and the message "Rinsing..."

" is displayed. 18 Cleaning the hot water/ steam nozzle Each time you prepare milk, clean the nozzle with a sponge to remove milk residues from the gaskets (see figure). **DESCALE!** Descal the machine when the message "DESCALE!" flashes on the display. Important! Descaler contains acids which may irritate the skin and eyes. It is vital to respect the manufacturer's safety warnings given on the descaler pack and the warnings relating to the procedure to follow in the event of contact with the skin and eyes.

Please note! Use De'Longhi descaler only. Under no circumstances should you use sulphamic or acetic based descalers. Their use invalidates the guarantee. Failure to descale the applian- 10. When the water tank is completely empty, " Rinsing complete Confirm?" is displayed. 11. Press the button. 12. Insert the filter (if it was present) in the tank, fill the water tank again and the appliance is ready for use. The machine is now reprogrammed with the new water hardness setting.

**WATER SOFTENER FILTER SETTING WATER HARDNESS** The **DESCALE!** message is displayed after a period of time established according to water hardness. The machine is factory set for a hardness value of 4. The machine can also be programmed according to the hardness of the mains water in the various regions so that the machine needs to be descaled less often. Measuring water hardness 1. Remove the "TOTAL HARDNESS TEST" indicator paper attached to this manual from its pack. 2. Immerse the paper completely in a glass of water for one second. 3. 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. Level 1 Level 2 Level 3 Level 4 Set water hardness 1. Press the P button to enter the menu. 2. Turn the selection knob to select " Water hardness ".

3. Confirm the selection by pressing the button. 4. Turn the selection knob and set the level shown by the indicator paper (see previous paragraph). 5. Press the button to confirm the setting. 6. Press the button to exit the menu. 19 Certain models are fitted with a water softener filter. 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. Installing the filter 1. Remove the filter from the packaging. 2. Turn the date indicator disk (see fig.

30) until the next 2 months of use are displayed. Please note The filter lasts about two months if the appliance is used normally. If the coffee maker is left unused with the filter installed, it will last a maximum of three weeks. 3. Remove the tank from the appliance and fill with water. 4. Insert the filter in the water tank and immerse it completely for ten or so seconds, sloping it to enable the air bubbles to escape (fig. 31). 5. Insert the filter in the filter housing (fig. 32A) and press as far as it will go. 6. Close the tank with the lid (fig. 32B), then replace the tank in the machine. When you install the filter, you must notify the appliance of its presence.

7. Press the P button to enter the menu; 8. Turn the selection knob (fig. 8) until "Install filter" is displayed; 9. Press the button; 10.

The message "Activate?" is displayed. 11. Press the button to confirm the selection. " Hot water Confirm?" is displayed. 12. Position a container with a minimum capacity of 100 ml under the hot water spout. 13. Press the button to confirm the selection. The appliance begins delivering hot water and the message " Please wait..

" is displayed. 14. After delivery, the appliance returns automatically to the "Ready for coffee" position. The new filter is active and indicated by an asterisk displayed under "Install filter" in the menu. You can now use the coffee maker. Replacing the filter When "REPLACEFILTER!" is displayed, after two months (see date indicator) or when the appliance has not been used for 3 weeks, you should replace the filter: 1. Remove the exhausted filter; 2. Remove the new filter from the packaging; 3. Turn the date indicator disk (see fig.

30) until the next 2 months of use are displayed (the filter lasts about two months); 4. Refill the tank; 5. Insert the filter in the water tank and immerse it completely, sloping it to enable the air bubbles to escape (fig. 31); 6. Place the filter in the filter housing (fig.

32A) and press as far as it will go. Close the tank with the lid (fig. 32B), then replace the tank in the machine; 7. Position a container with a minimum capacity of 100 ml under the hot water spout; 8. Press the P button to enter the menu; 9.



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Turn the selection knob until "Replace " is displayed; 10. Press the button; 11. The message "Confirm?" is displayed; 12. Press the button to confirm the selection; 13. "Hot Water... Confirm?" is displayed. 14. Press the button to confirm the selection.

The appliance begins delivering hot water and the message "Please Wait... " is displayed. 15. After delivery, the appliance returns automatically to the "Ready for coffee" position. The new filter is now active and you can use the coffee maker. Removing the filter If you want to continue using the appliance without a filter, you must remove it and notify the appliance of its removal as follows: 1. Extract the tank and exhausted filter; 2. Press the P button to enter the menu; 3.

Turn the selection knob (fig. 8) until "Install filter\*" is displayed; 4. Press the button; 5. "Deactivate?" is displayed; 6. Press the button to confirm and the button to exit the menu.

**20 TECHNICAL SPECIFICATION** Voltage: 220-240V~50/60Hzmax.10A Absorbed power: 1450W Pressure: 15 bars Water tank capacity: 1,8 l max. Size LxHxD: 238x340x430 mm Cable length: 1,15 m Weight: 9,1 kg Beans container capacity: 150 g The appliance complies with the following EC directives: Stand-byDirective no.1275/2008; LowVoltageDirective2006/95/ECandsubsequent amendments; EMCDirective2004/108/ECandsubsequent amendments; Materialsandaccessoriescomingintocontact with food conform to EEC regulation 1935/2004. . . . . **DISPOSAL** Important information for correct disposal of the product in accordance with EC Directive 2002/96/EC.

At the end of its working life, the product must not be disposed of as urban waste. It must be taken to a special local authority differentiated waste collection centre or to a dealer providing this service. Disposing of a household appliance separately avoids possible negative consequences for the environment and health deriving from inappropriate disposal and enables the constituent materials to be recovered to obtain significant savings in energy and resources. As a reminder of the need to dispose of household appliances separately, the product is marked with a rubbish bin bearing a cross. **ELECTRICAL REQUIREMENTS**

Before using this appliance ensure that the voltage indicated on the product corresponds with the main voltage in your home, if you are in any doubt about your supply contact your local electricity company. The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 13 amp capacity. Should this plug not fit the socket outlets in your home, it should be cut off and replaced with a suitable plug, following the procedure outlined below. Note: Such a plug cannot be used for any other appliance and should therefore be properly disposed of and not left where children might find it and plug it into a supply socket - with the obvious consequent danger.

N.B. We recommend the use of good quality plugs and wall sockets that can be switched off when the machine is not in use. **IMPORTANT:** the wires in the mains lead fitted to this appliance are coloured in accordance with the following code: Green and Yellow to Earth 13 amp Fuse Blue to neutral Brown to live

Cord Clamp **GREEN AND YELLOW BLUE BROWN EARTH NEUTRAL LIVE** As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: - The wire which is coloured green and yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol or coloured green or green and yellow. - The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. - The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. When wiring the plug, ensure that all strands of wire are securely retained in each terminal.

Do not forget to tighten the mains lead clamp on the plug. If your electricity supply point has only two pin socket outlets, or if you are in doubt, consult a qualified electrician. Should the mains lead ever require replacement, it is essential that this operation be carried out by a qualified electrician and should only be replaced with a flexible cord of the same size.

After replacement of a fuse in the plug, the fuse cover must be refitted. If the fuse cover is lost, the plug must not be used until a replacement cover is obtained. The colour of the correct replacement fuse cover is that of the coloured insert in the base of the fuse recess or elsewhere on the plug. Always state this colour when ordering a replacement fuse cover. Only 13amp replacement fuses which are asta approved to B.

S. 1362 should be fitted. This appliance conforms to the Norms EN 55014 regarding the suppression of radio interference. Warning - this appliance must be earthed 21 **DISPLAYED MESSAGES DISPLAYED MESSAGE FILLTANK! EMPTY GROUNDS CONTAINER! POSSIBIE CAUSE** · Insufficientwaterinthetank. **REMEDY** · Fillthetankwithwaterand/orinsertit correctly, pushing it as far as it will go until it clicks into place (fig.

3). Emptythegroundscontainerand drip tray, clean and replace (fig. 23). Important: When removing the drip tray, the grounds container must be emptied, even if it is not completely full. @@Repeatcoffeedeliveryandturnthe grinding adjustment knob (fig. 10) one click clockwise towards "7" while the coffee mill is in operation. If after making at least 2 coffees delivery is still too slow, repeat the correction procedure, turning the grinding adjustment knob another click (see the section "Adjusting the coffee mill" on page 13). If the problem persists, press the button and deliver a little water from the spout. Removethedriptrayandinsertthe grounds container. Placepre-groundcoffeeinthefunnelor deselect the "pre-ground" function.

TheDESCALINGproceduredescribedinthe "Descaling" section (page 16) needs to be performed as soon as possible. Selectamildertasteorreducethe quantity of pre-ground coffee. Fillthebeanscontainer Emptythefunnelwiththehelpofabrush as described in the section "Cleaning the pre-ground coffee funnel".

Inserttheinfuserasdescribedinthe section "Cleaning the infuser". Insertthetankcorrectlyandpressasfar as it will go. Cleantheinsideoftheappliance thoroughly, as described in the section "Cleaning and maintenance". If the message is still displayed after cleaning, contact a customer services. @@alternating with...

@@@ADD PREGROUND COFFEE! DESCALE! LESSCOFFEE! @@@@Themachinemustbedescaled. . . . . Toomuchcoffeehasbeenused.

Thecoffeebeanshaverunout. Thepre-groundcoffee funnelislogged. . . . INSERT INFUSER ASSEMBLY! INSERTTANK GENERALALARM! · Theinfuserhasnotbeenreplacedafter cleaning.



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The tank is not correctly in place. The inside of the appliance is very dirty. . . . . **REPLACE FILTER** · The water softener filter is exhausted. · 22 **DISPLAYED MESSAGE**  
 Press **CLEAN** button **POSSIBLE CAUSE** · Milk has been delivered recently and the tubes inside the milk container must be cleaned.  
 The hot water spout is not inserted or is inserted incorrectly.

The milk container is not inserted correctly. **REMEDY** · Press the **CLEAN** button and keep it pressed until the progress bar which appears on the display together with the message "Cleaning..." is complete. Insert water spout as far as it will go. Insert the milk container as far as it will go. **INSERT WATER SPOUT INSERT MILK CONTAINER!** . . . . **TROUBLESHOOTING** Below is a list of some of the possible malfunctions. If the problem cannot be resolved as described, contact Customer Services. **PROBLEM** The coffee is not hot **POSSIBLE CAUSE** · The cups were not preheated.

**REMEDY** · Warm the cups by rinsing them with hot water (N.B. you can use the hot water function). Before making the coffee, warm the infuser by pressing the button. In the menu, set a high coffee temperature. Turn the grinding adjustment knob one click anticlockwise towards "1" while the coffee mill is in operation (fig. 10). Continue one click at a time until coffee delivery is satisfactory. The effect is only visible after delivering 2 coffees (see the section: "Adjusting the coffee mill" on page 13). Use pre-ground coffee for espresso coffee makers Turn the grinding adjustment knob one click clockwise towards "7" while the coffee mill is in operation (fig. 10). Continue one click at a time until coffee delivery is satisfactory. The effect is only visible after delivering two coffees. (see the section "Adjusting the coffee mill" on page 13). Clean the spouts with a toothpick.

· The infuser has cooled down because 2/3 minutes have elapsed since the last coffee was made. Low coffee temperature is set. The coffee is ground too coarsely. . . . .  
 The coffee is thin or not creamy enough. · The coffee is unsuitable.

The coffee is ground too finely. · The coffee is delivered too slowly or a drop at a time. · Coffee does not come out of one of the spouts. The milk does not come out of the milk spout. · The spouts are blocked. · The milk container lid is dirty. · Clean the milk container lid as described in the section "Cleaning the milk container". 23 **PROBLEM** The milk contains large bubbles and squirts out of the milk spout or there is little froth. **POSSIBLE CAUSE** · The milk is not cold enough or is not semi-skimmed. **REMEDY** · Use skimmed or semi-skimmed milk at refrigerator temperature (about 5° C).

If the result is not as you wished, try changing brand of milk. Adjust following the instructions in the section on preparing drinks with milk. Clean the milk container lid and knob as described in the section "Cleaning the milk container". Clean the nozzle as described in the section "Cleaning the hot water/steam nozzle". Plug into the mains socket. Place the mains switch in the I position (fig. 1). · The froth adjustment knob is incorrectly adjusted. The milk container lid or froth adjustment knob is dirty The hot water/steam nozzle is dirty . . . . The appliance does not come on. · ·  
 It is not plugged into the mains socket.  
 The mains switch (A8) is not turned on. · · 24.



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