



Manuale per il Tecnico F18 / F18 TALL
Technician manual

CONTENTS

1. Introduction.....	66
1.1 General safety warnings.....	66
2. Removing the tray	67
3. Removing the cup warmer.....	68
4. Removing the panels	69
4.1 Removing the side panels	69
4.2 Removing the control panel.....	70
4.3 Removing the lower front panel.....	72
4.4 Removing the rear panels	74
5. Main component topography	77
5.1 Top view	77
5.2 Rear view	78
5.3 Left side view.....	79
5.4 Right side view	79
5.5 Electric door opening.....	80
6. Adjustments - resets	81
6.1 Adjusting the mixed water	81
6.2 Resetting the service boiler safety thermostat	81
6.3 Resetting the small boilers safety thermostat.....	81
7. Removal - replacements	82
7.1 Replacing the cup warmer heating element.....	82
7.2 Replacing the cup warmer probe	82
7.3 Disconnecting the grounding system of cup warmer heating element.....	82
7.4 Replacing the group heating element.....	83
7.5 Replacing the LED spotlight illuminating the bartender surface.....	84
7.6 Replacing the small boiler thermostat	85
7.7 Replacing the small boiler	85
7.8 Replacing the service boiler heating element.....	87
7.9 Replacing the pump	87
7.10 Replacing the pump motor	88
7.11 Replacing the boiler filling solenoid valve.....	88
7.12 Replacing the mixed water solenoid valve	89
7.13 Replacing the hot water solenoid valve.....	89
7.14 Replacing the cooling cycle solenoid valve	89
7.15 Replacing the pre-infusion filters	90
7.16 Replacing the pre-infusion solenoid valve.....	90
7.17 Replacing the group solenoid valve	91
7.18 Replacing the volumetric flow meter	91
7.19 Replacing the pump pressure transducer	92
7.20 Replacing the service boiler pressure transducer	92
7.21 Replacing the pre-infusion expansion board	92
7.22 Replacing the electronic board.....	93
7.23 Replacing the push-button panel.....	94
7.24 Replacing the video card.....	95
7.25 Removing the service boiler	96
7.26 Replacing the steam wand and tap.....	97
7.27 Replacing the water dispensing button and removing the water dispenser....	103
7.28 Replacing the main switch.....	104
7.29 Replacing the safety thermostat.....	105
7.30 Removing the head and seals.....	106

8. Technician programming	107
8.1 Name.....	108
8.2 Phone nr.	109
8.3 Enable chrono	109
8.4 Filling up during disp.	109
8.5 Energy consumption.....	109
8.6 Pressure sensor	110
8.7 Pump pressure offset	110
8.8 Flowmeter group 1-2-3 ofs.	110
8.9 Ofs. Tset group 1-2-3.....	110
8.10 Doses programming.....	111
8.11 Temperature (C° / F°)	111
8.12 Boiler temp.	111
8.13 Ring 1-2-3 temp.....	111
8.14 Probe sensitivity	112
8.15 Inactivity time.....	112
8.16 Fillingup timeout	112
8.17 Filter alarm (liters)	113
8.18 Service cycles	113
8.19 Steam wand	113
8.20 Purge enable	113
8.21 Cleaning cycles	114
8.22 Coffeè + tea.....	114
8.23 Oled screen saver	114
8.24 Enabling cash counter/cleaning	115
8.25 Cash counter	115
8.26 Cleaning	115
9. Technician programming	116
9.1 Technician password	116
9.2 Language	116
9.3 Date.....	116
9.4 Time.....	116
9.5 Week day	117
9.6 Cooling enable	117
9.7 User password	117
9.8 Counter reset.....	117
10. List of alarms	118
11. Hydraulic diagram	119
12. Wiring diagram	121

1. INTRODUCTION

- This manual has been written for the exclusive use by authorised technicians of the manufacturing company.

1.1 General safety warnings

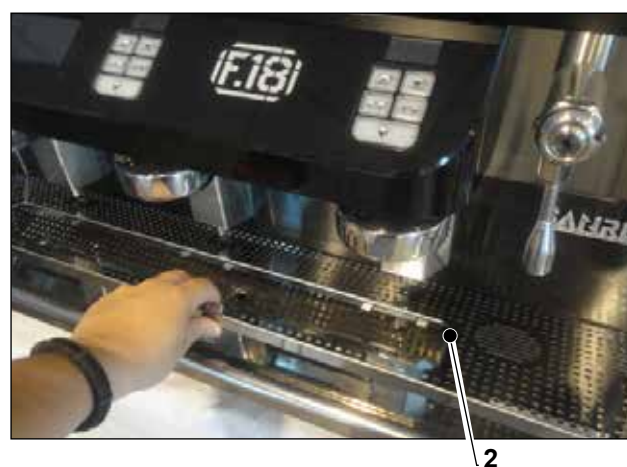
- When operating on the machine it is necessary to make sure that the main switch and the machine switch are set to “OFF” and that the water supply tap is closed.
- **Pay the utmost attention** when performing operations/adjustments with power supply on.
- Check that the water inside the machine is cold when operating on the machine.
- **Pay the utmost attention** and use suitable personal protective equipment when performing operations/adjustments with machine at operating temperature.
- In any case, the use of PPE is required as specified by the regulations in force in the country of use.
- It is also necessary to operate following the specific standards in force in the country of use.
- For all operations concerning the electric system refer to the enclosed wiring diagram.
- For all operations concerning the hydraulic system refer to the enclosed hydraulic diagram.

2. REMOVING THE TRAY

- Remove the filinox steel grille (1).



- Lift and remove the sheet metal grille (2).

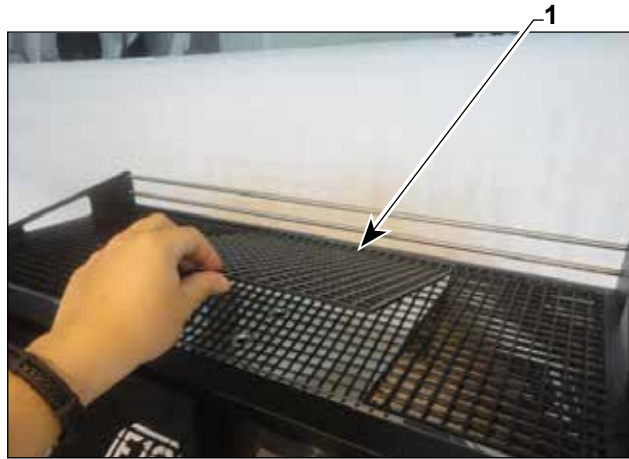


- Lift and remove the drain plate (3).

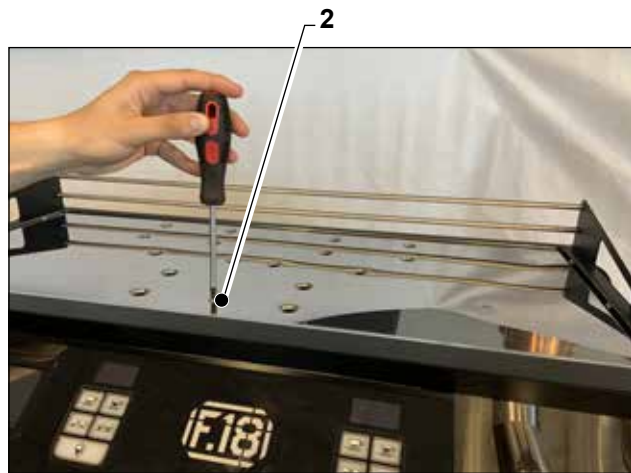


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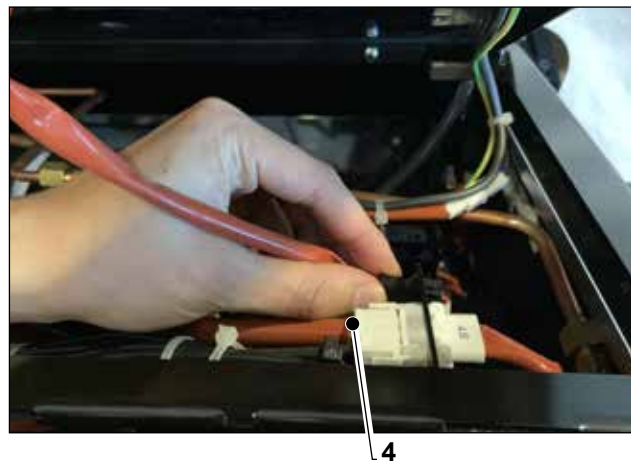
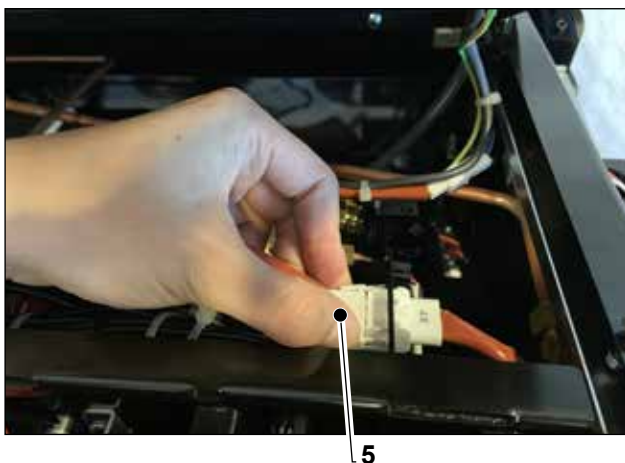
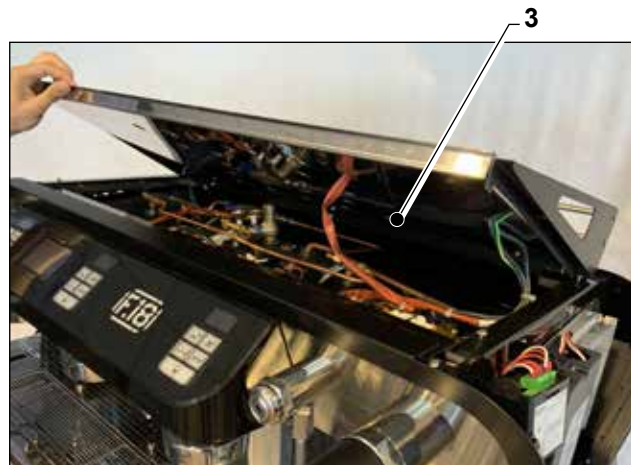
3. REMOVING THE CUP WARMER



- Remove the grilles (1).




- Loosen the central screw (2).
- Lift the cup warmer (3).
- Disconnect the probe connector (4).
- Disconnect the heating element connector (5).



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- Remove the cup warmer (3).

4. REMOVING THE PANELS

 By removing the side and front panels and the cup warmer it is possible to reach all internal components of the machine.

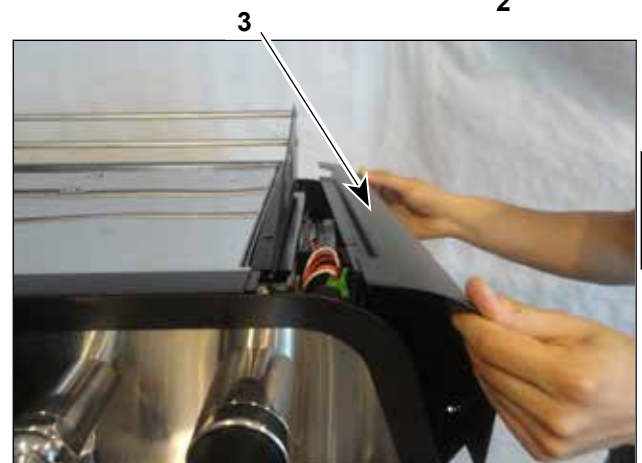


4.1 Removing the side panels

- Loosen the screw (1).



- Loosen the screw (2).



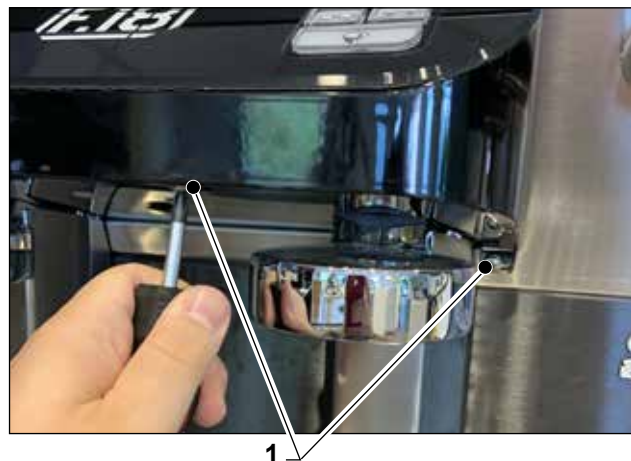
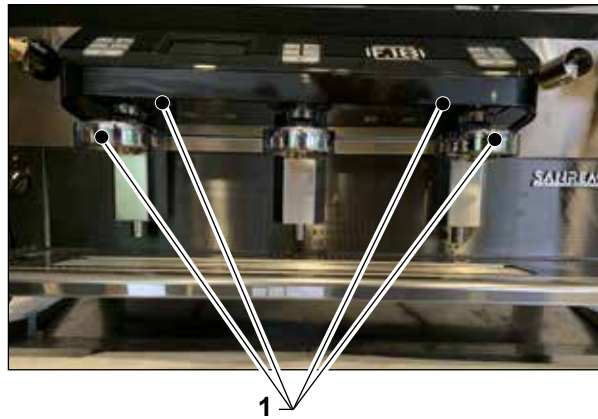
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- Disengage the panel (3) from the upper screws.
- Release the teeth present on the lower side (4) and remove the panel.

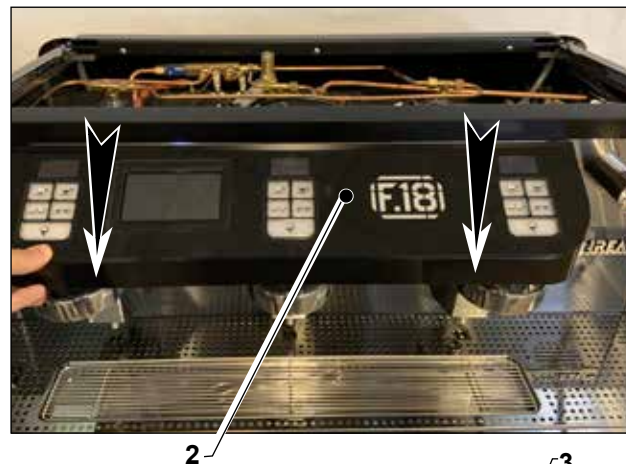


4.2 Removing the control panel

- Loosen the 4 screws (1).



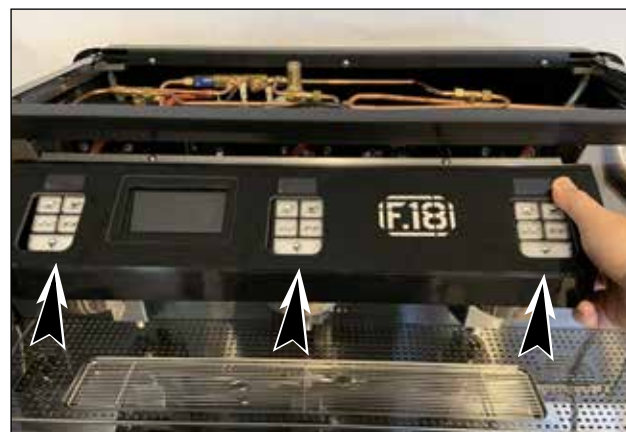
- Disengage the control panel (2) by pulling it downwards.



- Release the upper balls (3).

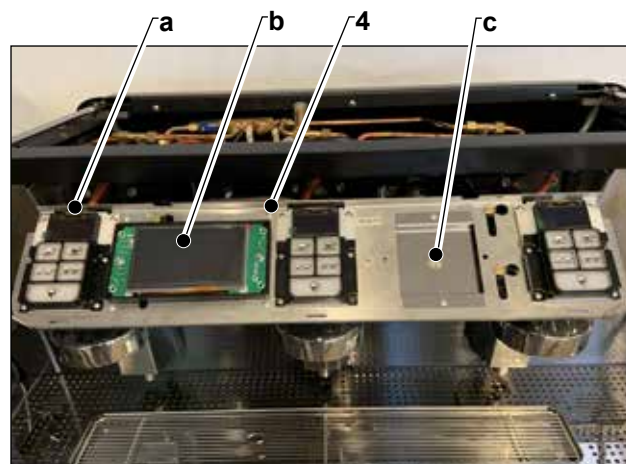


- Lift the glass and front panel of the control panel.



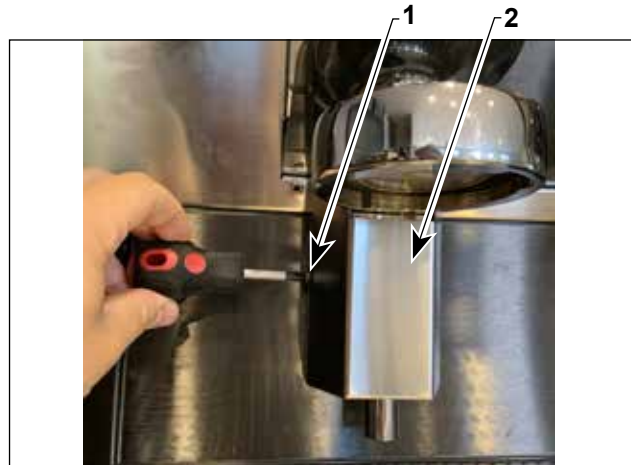
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- The control panel (4) can be accessed where it is possible to service the following components:
- a) Push-button panel F18
 - b) Touch screen display
 - c) F18 logo LED



4.3 Removing the lower front panel

- Remove the fastening screw (1) of the solenoid valve cover (2).



- Release the solenoid valve cover.



It is now possible to service the group drain solenoid valve (3) and to remove the single drain fitting (4).



- Remove the single drain fitting with a wrench no.19 (5).





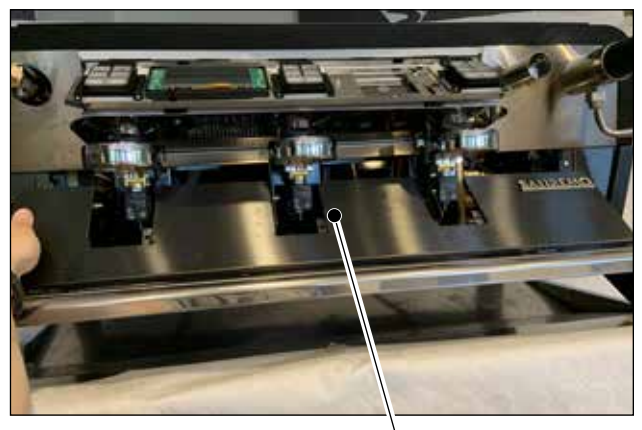
- Remove any screw on the side of any group drain solenoid valve (on the RH side) (6).



- Disengage the front lower panel by rotating it towards yourself.



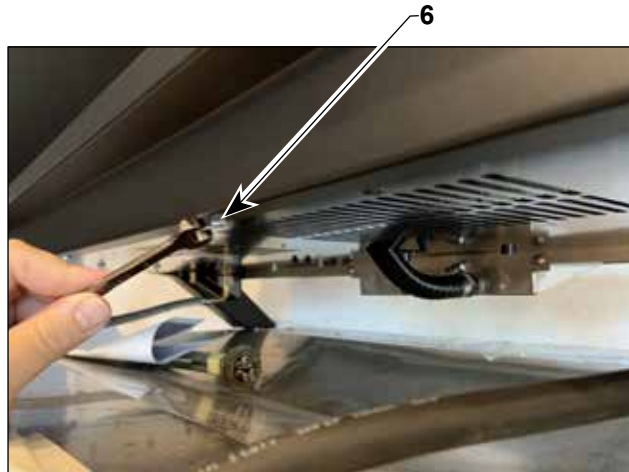
- Disengage the front lower panel by lowering it and rotating it towards yourself.



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4.4 Removing the rear panels

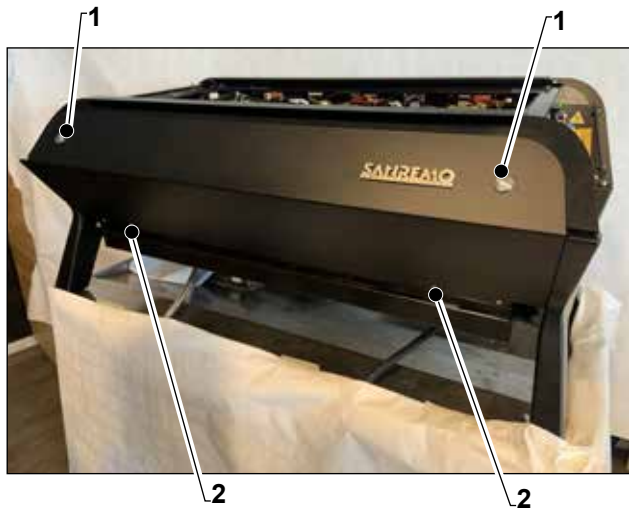
- Loosen the 4 screws on the rear bottom of the machine with a key no.7 without removing them.



- Disengage the lower rear panel.



- Remove the 4 fasteners of the upper rear panel (1-2).



- Unscrew the two upper knobs by hand.



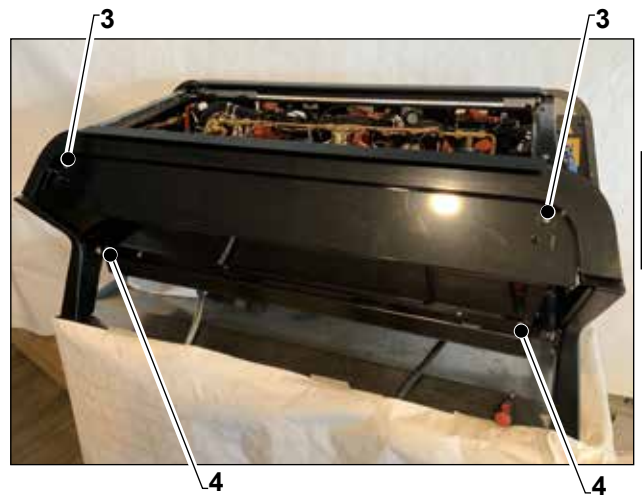
- Loosen the lower screw without removing it.



- Remove the upper rear panel



- Remove the 6 fasteners of the rear protection (3-4 and (5: see following pictures).



- Loosen the two upper screws.



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- Loosen the two lower screws.



- Loosen the rear screw near the leg (both side panels must be removed).



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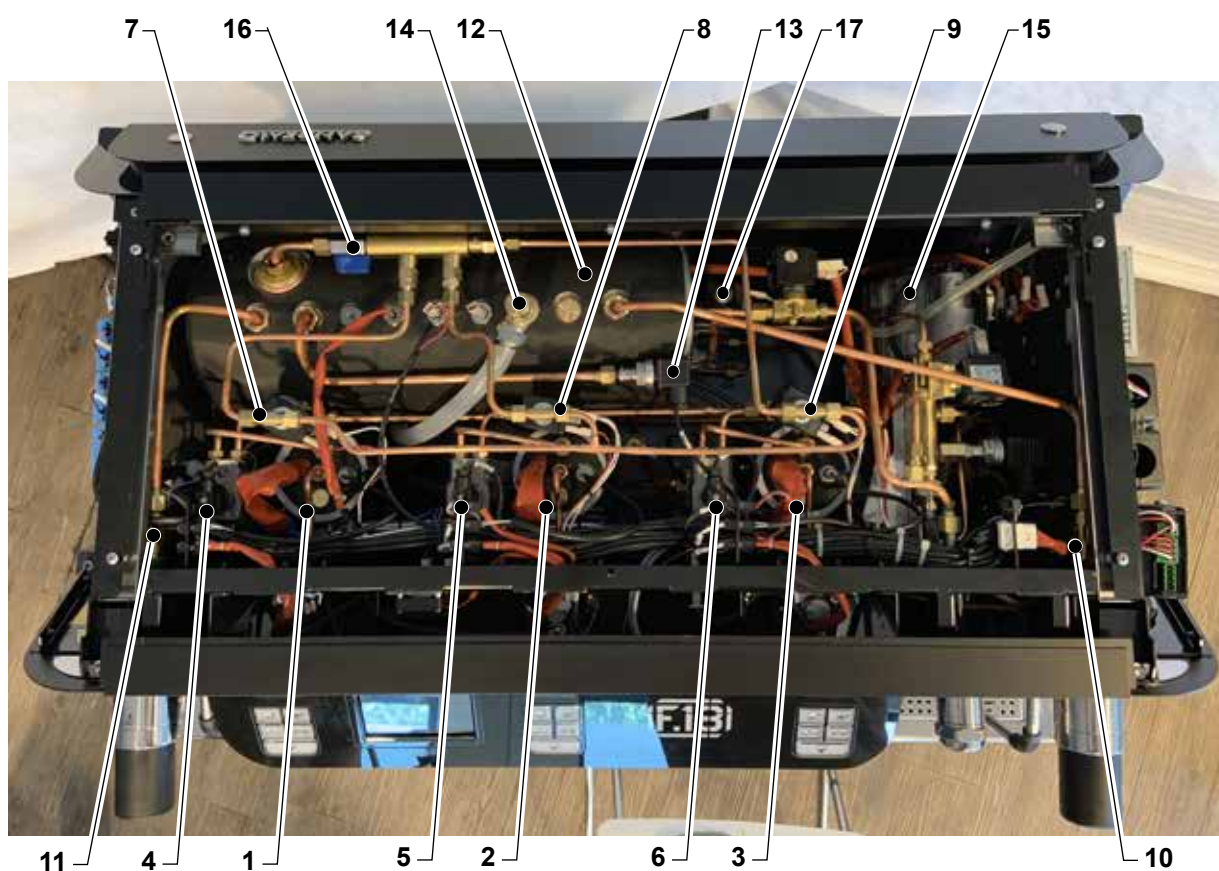
- Disengage the rear protection.



5. MAIN COMPONENT TOPOGRAPHY

5.1 Top view

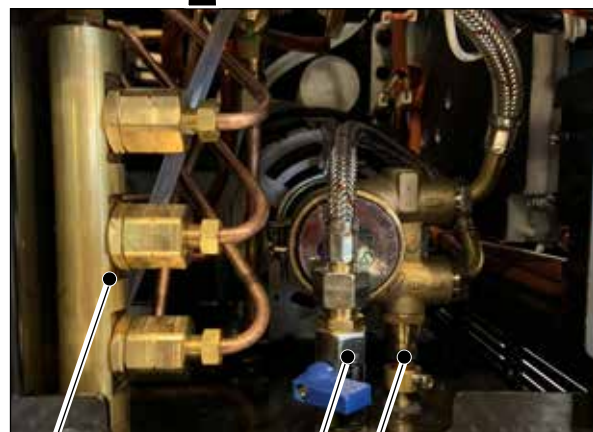
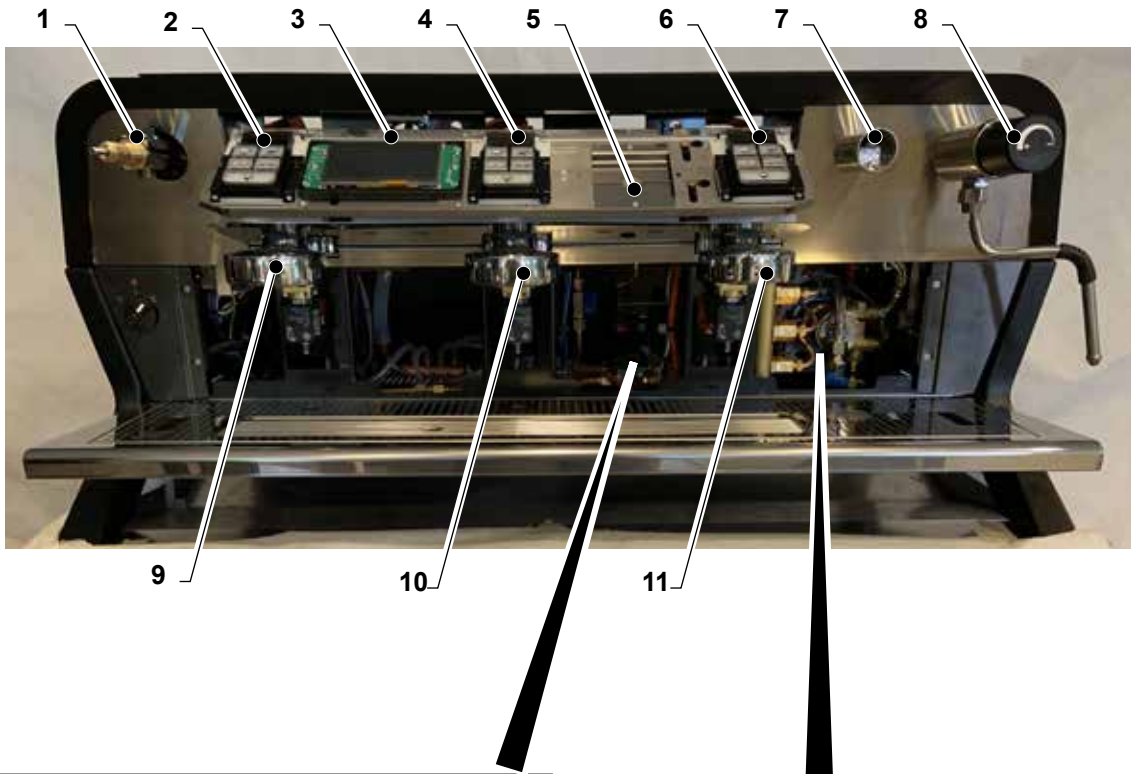
- 1) Group "1" small boiler
- 2) Group "2" small boiler
- 3) Group "3" small boiler
- 4) Group "1" volumetric flow meter
- 5) Group "2" volumetric flow meter
- 6) Group "3" volumetric flow meter
- 7) Group "1" pre-infusion solenoid valve
- 8) Group "2" pre-infusion solenoid valve
- 9) Group "3" pre-infusion solenoid valve
- 10) RH steam wand shut-off valve
- 11) LH steam wand shut-off valve
- 12) Service boiler
- 13) Steam pressure transducer
- 14) Safety valve
- 15) Pump motor
- 16) Pre-heated water shut-off valve
- 17) Drain solenoid valve



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5.2 Rear view

- 1) Left steam tap
- 2) Group 1 push-button panel
- 3) Touch screen 5.1" display
- 4) Group 2 push-button panel
- 5) Logo LED
- 6) Group 3 push-button panel
- 7) Water dispenser
- 8) Right steam tap
- 9) Group 1
- 10) Group 2
- 11) Group 3
- 12) Cold water shut-off valve
- 13) Cooling cycle solenoid valve
- 14) Mixed water solenoid valve
- 15) Pre-infusion block
- 16) Water mains supply shut-off valve
- 17) Pump regulator

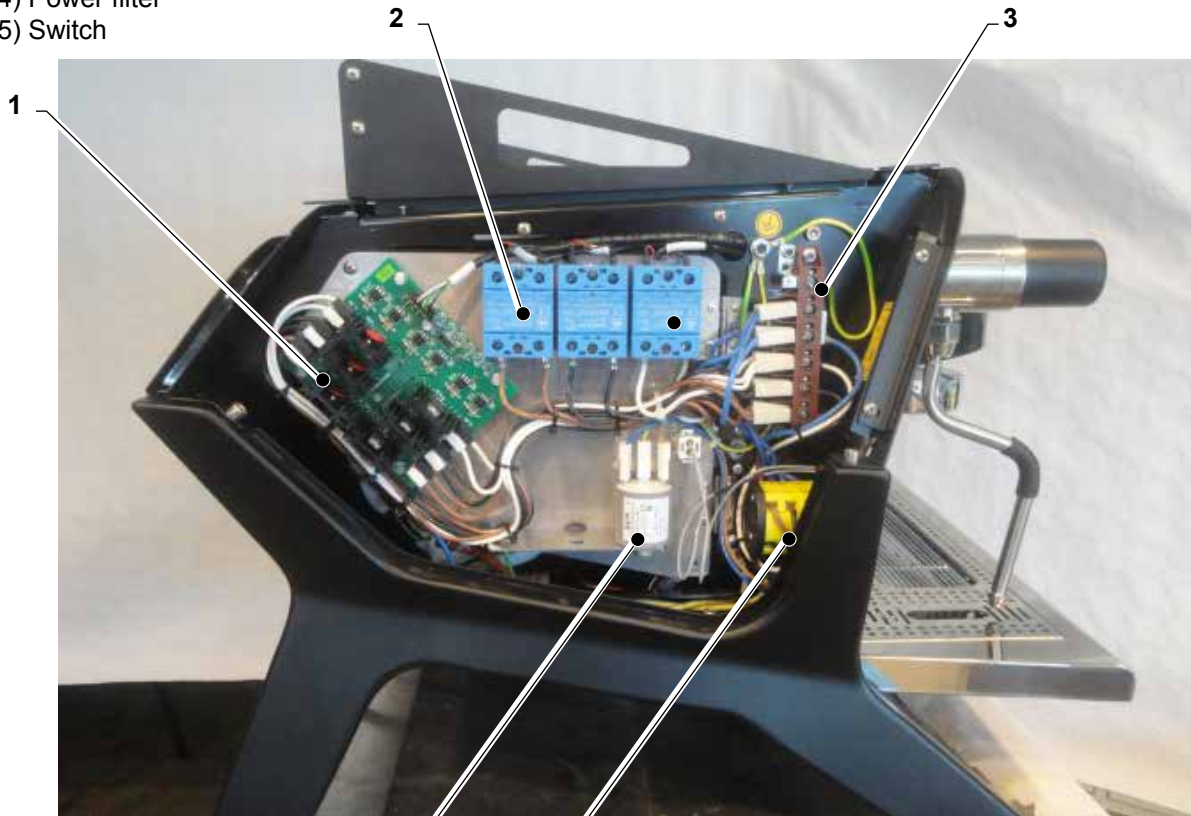


12) 13) 14)

15) 16) 17)

5.3 Left side view

- 1) Triac expansion board
- 2) Static relay
- 3) Terminal board
- 4) Power filter
- 5) Switch



5.4 Right side view

- 1) 6-relay expansion board
- 2) Control unit F18
- 3) Power supply unit



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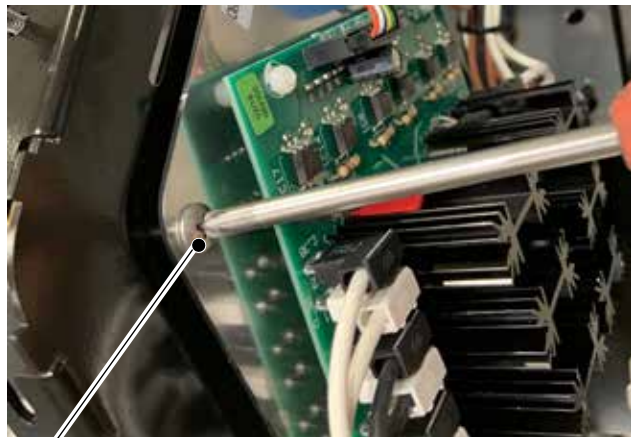
5.5 Electric door opening

- To open the right door remove the screw (1) on the right side of the power supply unit. To open this door to the maximum angle, rotate the 6-relay expansion board upwards (see paragraph 5.4).



1

- To open the left door remove the screw (2) on the left upper side of the triac expansion board.

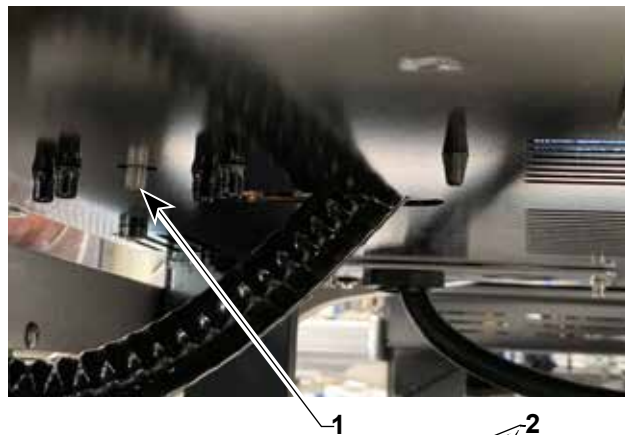


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6. ADJUSTMENTS AND RESETS


6.1 Adjusting the mixed water

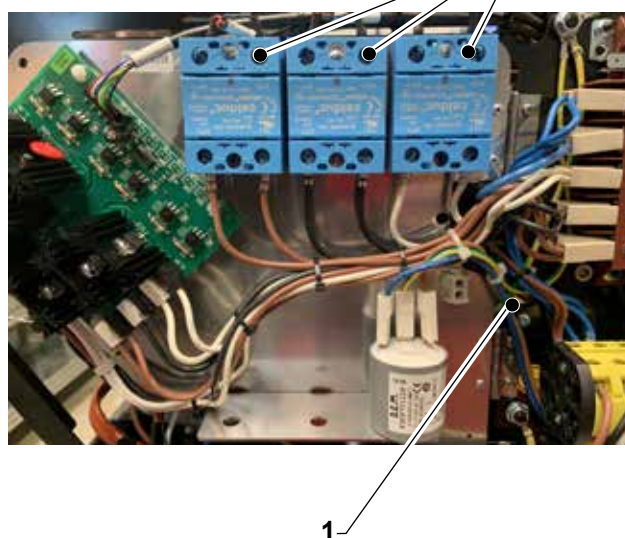
- Act on the screw (1) of the mixed water solenoid valve, positioned in the central front lower side, to adjust the cold water quantity that mixes with hot water during water supply.



6.2 Resetting the service boiler safety thermostat


- Remove the left side panel as indicated in the relevant paragraph (4).
- Press the red button of the safety thermostat (1) to reset it.

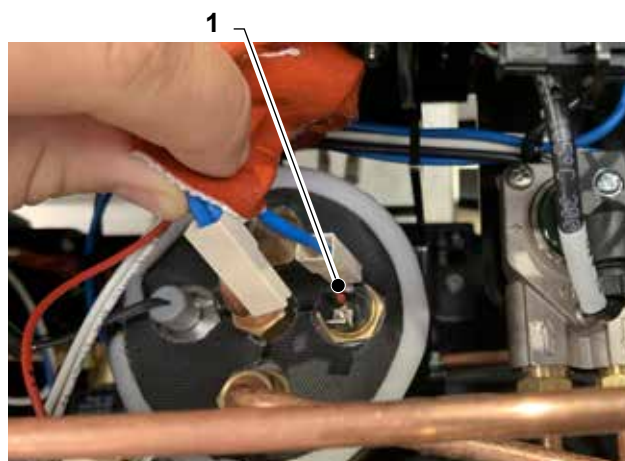
 **If after resetting the safety thermostat, upon restarting the machine, the thermostat will trigger again it is necessary to check the correct operation of the temperature probe of the service boiler and the 3 single-phase static relays (2).**



6.3 Resetting the small boilers safety thermostat

- Remove the cup warmer as indicated in the relevant paragraph (3).
- Press the red button of the safety thermostat (1) to reset it.

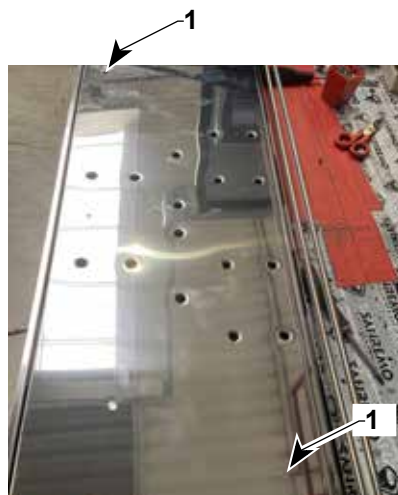
 **If after resetting the safety thermostat, upon restarting the machine, the thermostat will trigger again it is necessary to check the correct operation of the temperature probe of the coffee boiler and/or the triac board.**



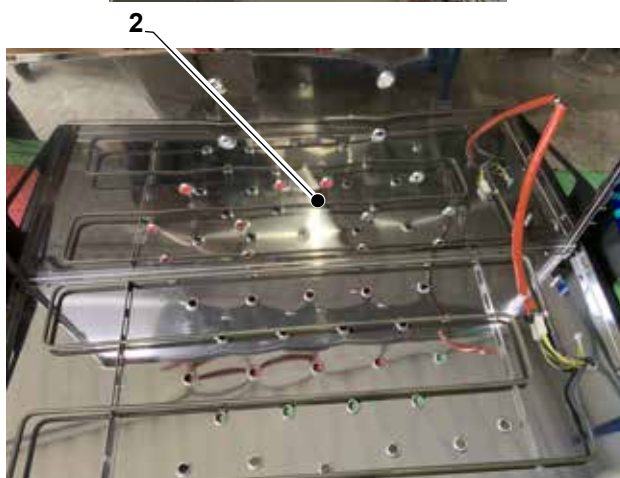
7. REMOVALS AND REPLACEMENTS

7.1 Replacing the cup warmer heating element

- Remove the cup warmer as indicated in the relevant paragraph (3).
- Loosen the 2 screws (1) fastening the cup warmer grille.



- To replace the cup warmer heating element disconnect its grounding system and the cup warmer probe and then disconnect the end sleeves from the 3-way connector with the relevant puller.



7.2 Replacing the cup warmer probe

- Remove the cup warmer as indicated in the relevant paragraph (3) and remove the relevant grille as described in the previous paragraph.
- Loosen the nut and remove the retaining plate (1).

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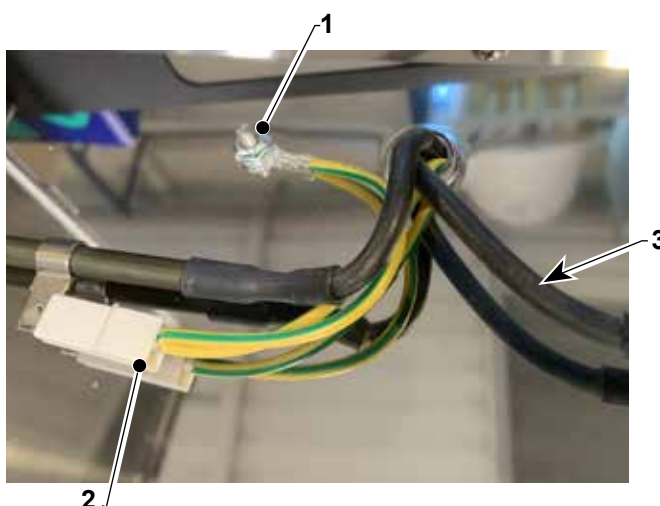


Upon refitting, spread conductive paste between the probe and the cup warmer.



7.3 Removing the ground connection

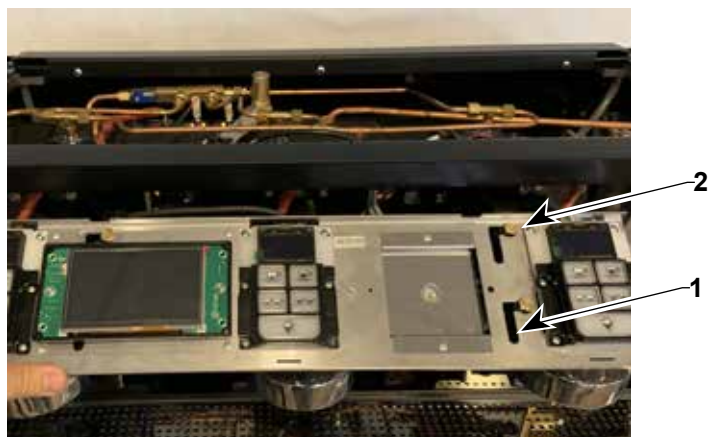
- Remove the cup warmer as indicated in the relevant paragraph (3) and remove the relevant grille as described in the previous paragraph.
- Loosen nut (1) and disconnect the faston (2).
- Disconnect the cables (3) and remove the pins from the 3-way connector using the puller.



7.4 Replacing the group heating element

 **Disconnect the machine power supply by setting the switch knob to “0”.**

- Remove the control panel as indicated in the relevant paragraph (4.2).
- Remove the cup warmer as indicated in the relevant paragraph (3).
- Disengage the control panel from its support following the guides (1) on the frame, until bringing the brass hexagonal heads inside the disengaging holes (2).



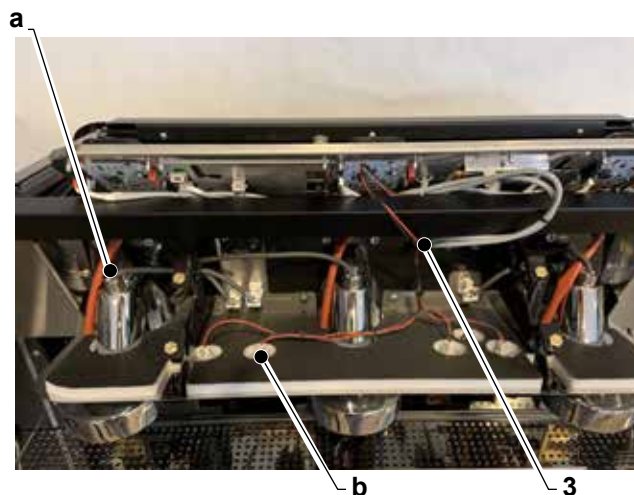
- Then lift.



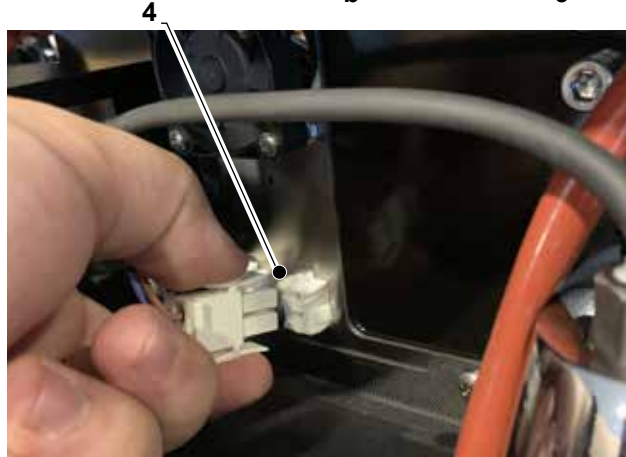
- Place the control panel on the machine and disconnect the board electrical wirings (3), if necessary.

It is now possible to service the following parts:

- a) Cartridge heating element
- b) LED spotlight illuminating the bartender surface

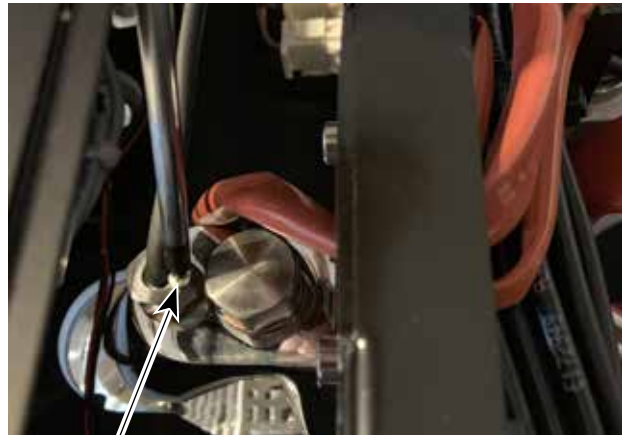


- Disconnect the 2-way connector of the heating element to be replaced (4).



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- Loosen the safety screw (5) from the group head.

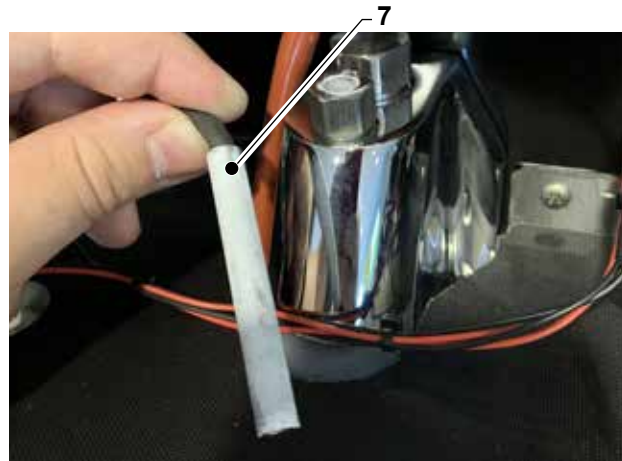


- Slide the cartridge heating element (6) out of its seat.



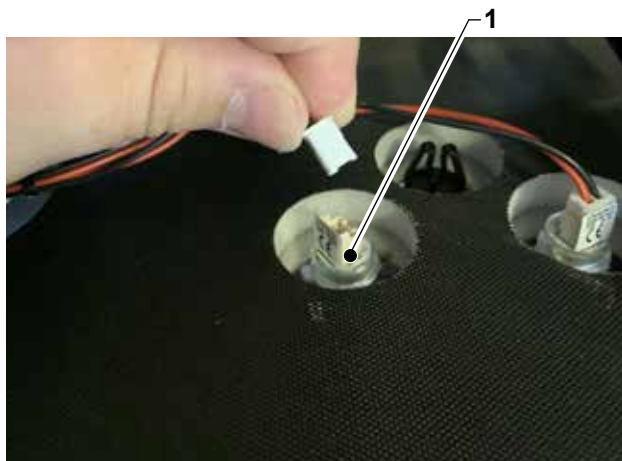
- Remove the cartridge heating element and replace it by referring to the spare parts booklet.

Attention: apply thermal grease (7) when re-installing the heating element.

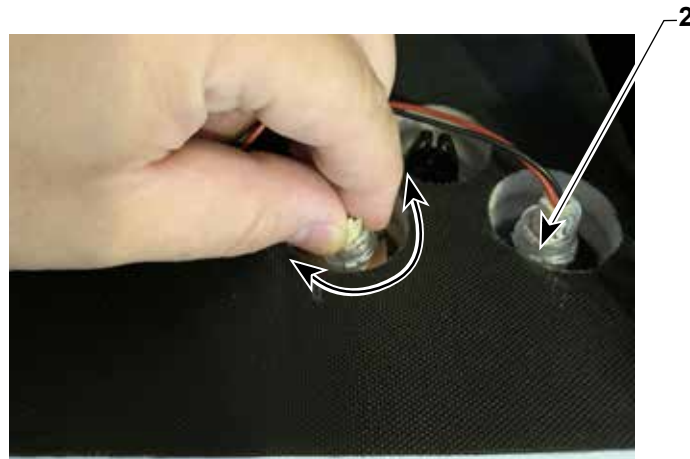


7.5 Replacing the LED spotlight illuminating the bartender surface

- Disconnect the minifit connector (1) from the LED spotlight.

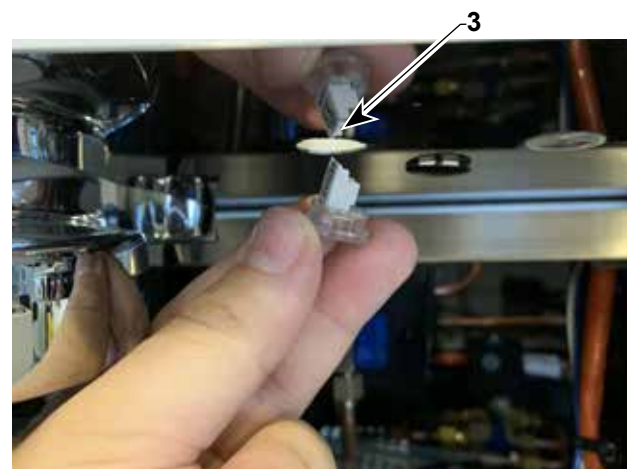


- Rotate the LED spotlight clockwise or counter-clockwise until the teeth (2) are inside the disengaging seat.




- Remove the LED spotlight.

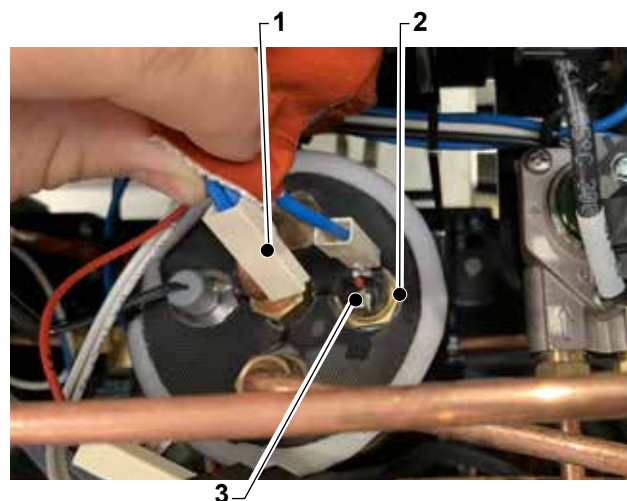
 **Refit the LED spotlight following the operations in reverse order. Check the correct electrical connection.**



7.6 Replacing the small boiler thermostat

- Remove the cup warmer as indicated in the relevant paragraph (3).
- Disconnect the electrical connections (1) from the thermostat.
- Loosen nut (2) and remove the thermostat (3).

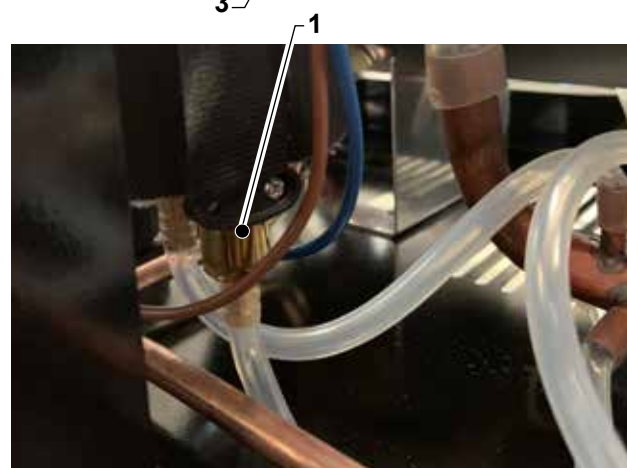
 **Upon refitting, spread the contact surfaces of the thermostat (3) with conductive paste.**



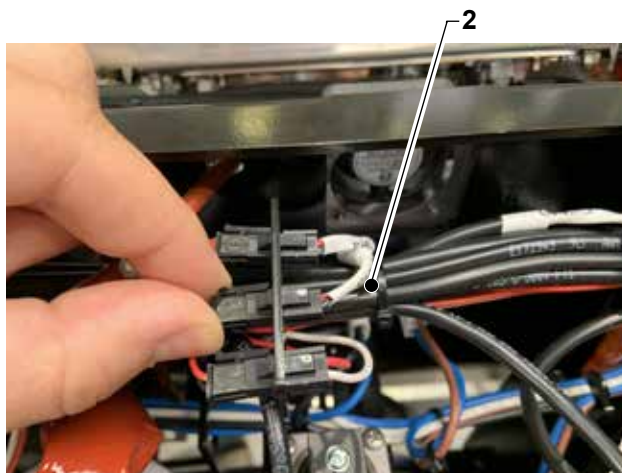
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7.7 Replacing the small boiler

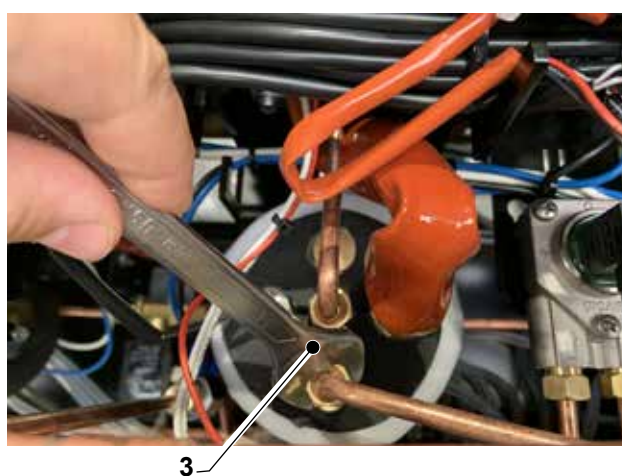
- Remove the cup warmer and the front panel as indicated in the relevant paragraphs (3 and 4.3).
- Drain the coffee circuit of the small boiler by opening the relevant tap (1).



- Disconnect the electrical connections (2) of the small boiler (Thermostat and NTC probe).



- Loosen the two water connection pipes (3).



- Loosen the nuts (4), lift it and disengage it from the support bracket (5).
- Disconnect the connectors (6) of the heating element and remove the 2 silicone hoses (7) of the drain tap and expansion valve, respectively.
- Replace the small boiler by following the removal operations in reverse order and reconnecting the electrical cables in the correct position.



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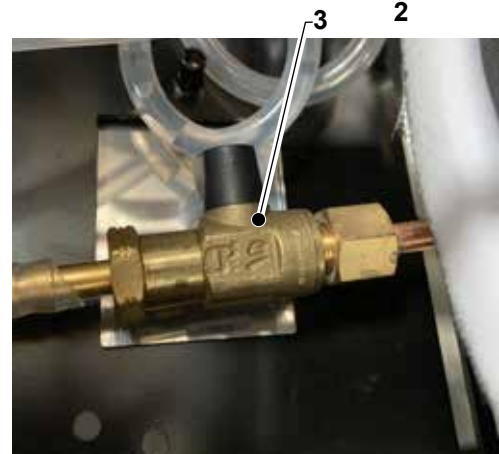
7.8 Replacing the service boiler heating element



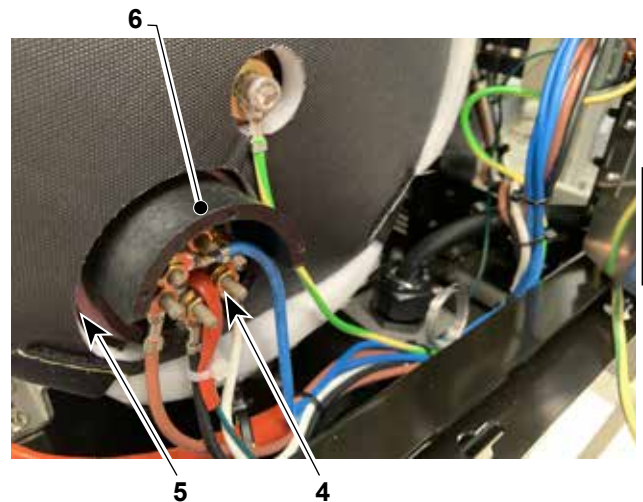
Disconnect the machine from the power supply by setting the main upstream switch to OFF.




- Loosen the screw (1) on the rear lower side of the machine to be able to remove the door (2) to reach the service boiler drain tap (3).




- Disconnect all wires that connect the heating element to the machine wiring by loosening the relevant nuts (4).
- Remove the circlip (5) and the protection (6).
- Remove the heating element.
- Refit everything following the removal procedure in reverse order and checking the condition of the heating element. Replace if worn out.
- Connect the wiring following the indications on the wiring diagram enclosed with this manual.

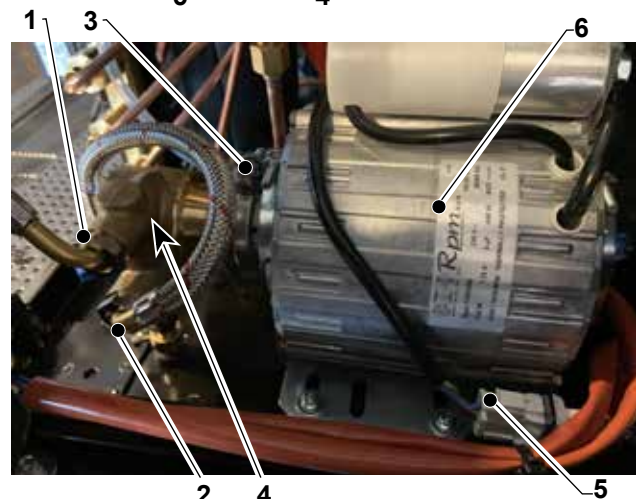


 **Use Loxeal 5811 sealant along the threading of the heating element during the refitting operation.**

7.9 Replacing the pump

- Remove the right side panel as indicated in the relevant paragraph (4).
- Disconnect the pump from the pipes by loosening nuts (1) and (2).
- Loosen clamp (3).
- Remove the whole pump (4): Upon refitting, pay attention to engage the pump pin correctly in the crankshaft.

 **Upon refitting, pay attention to engage the pump pin correctly in the crankshaft.**



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7.10 Replacing the pump motor

- Remove the right side panel as indicated in the relevant paragraphs (4).
- Remove the pump as indicated in the relevant paragraph without disconnecting the intake and delivery hoses (1 and 2).
- Disconnect the 3-way connector (5).
- Remove the 4 nuts (7) present on the lower side.
- Remove the motor (6) from the seat.




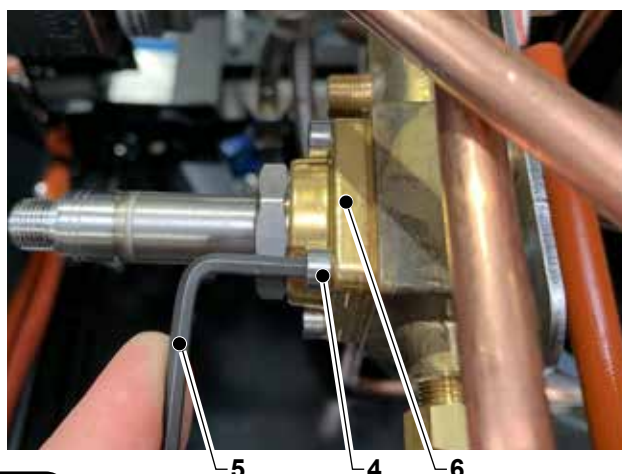
7.11 Replacing the boiler filling solenoid valve

- Turn the machine off.
- Close the water inlet tap.
- Remove the cup warmer as indicated in the relevant paragraph (3).
- Disconnect the two fastons (3) from the coil (1).
- Loosen the coil (1) nut using a wrench no.14 (2).



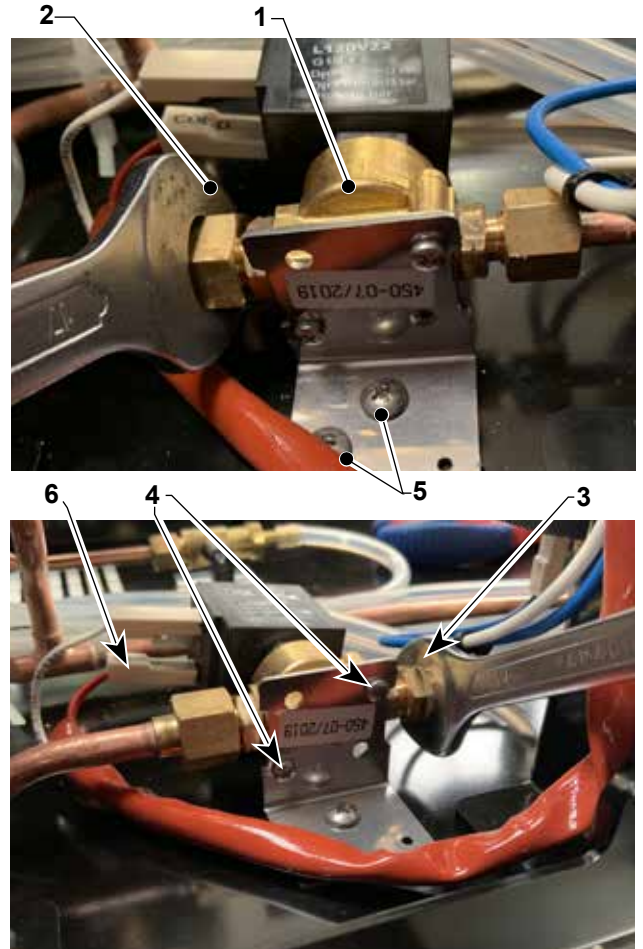
- Loosen the four screws (4) with an Allen key no.3 (5) and remove the core (6) of the solenoid valve.

 **Upon refitting the core, pay attention to refit the gasket, core and spring correctly.**



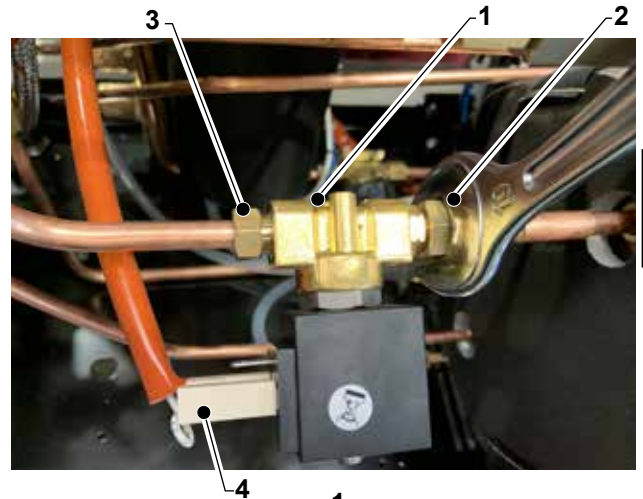
7.12 Replacing the mixed water solenoid valve

- Close the water inlet tap.
- Remove the lower front panel as indicated in the relevant paragraphs (4.3).
- Loosen the two connection copper pipes, using a wrench no.17 (2) and no.14 (3), respectively.
- Disconnect the two fastons (6) from the coil of the solenoid valve (1).
- Loosen the two screws (4) or the two screws (5) to remove also the support bracket.
- Upon refitting, pay attention to correctly connect the fastons to the coil.



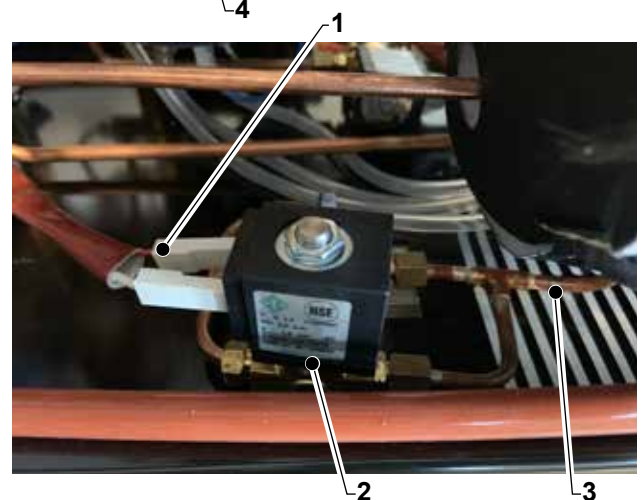
7.13 Replacing the hot water solenoid valve

- Turn the machine off.
- Reduce the inner pressure of the boiler by opening the steam taps and/or the boiler drain tap.
- Remove the cup warmer as indicated in the relevant paragraph (3).
- Disconnect the two fastons (4).
- Loosen the two copper pipes, using a wrench no.14 (3) and no.19 (2), respectively, and remove the solenoid valve (3).
- Replace the coil or solenoid valve and refit by following the removal procedure in reverse order.



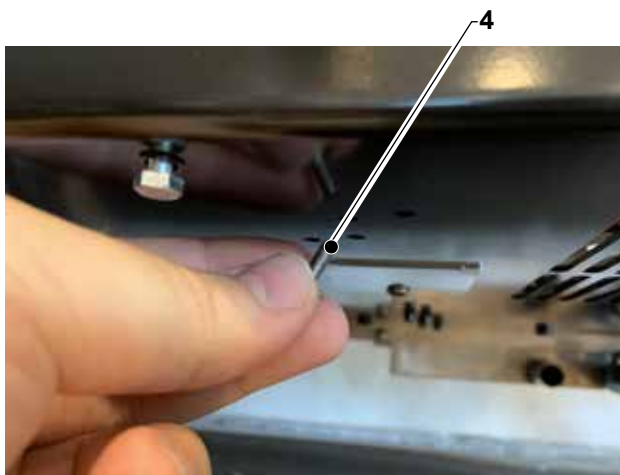
7.14 Replacing the cooling cycle solenoid valve (Optional)

- Remove the cup warmer and the rear panel as indicated in the relevant paragraph (3 and 4.4).
- Drain the water from the service boiler by opening the drain tap.
- Disconnect the two fastons (1).



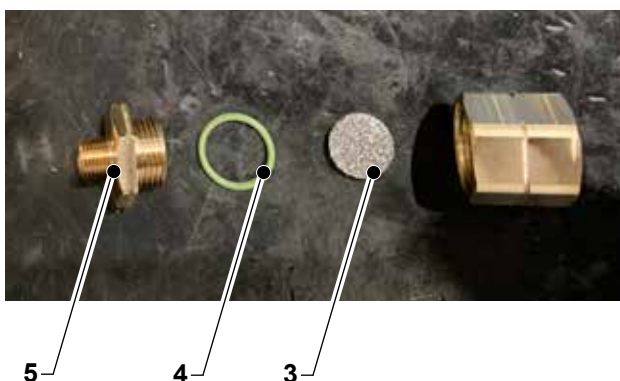
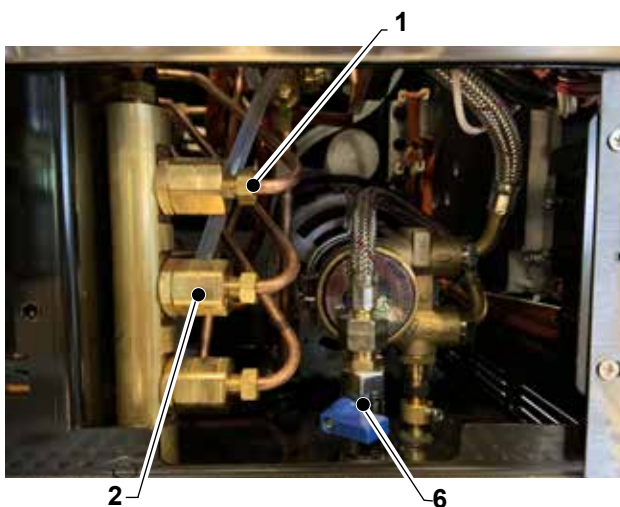
EN

- Loosen the two screws present on the bottom of the machine (4).
- Loosen the pipe (3) connected to the drain of the boiler.



7.15 Replacing the pre-infusion filters

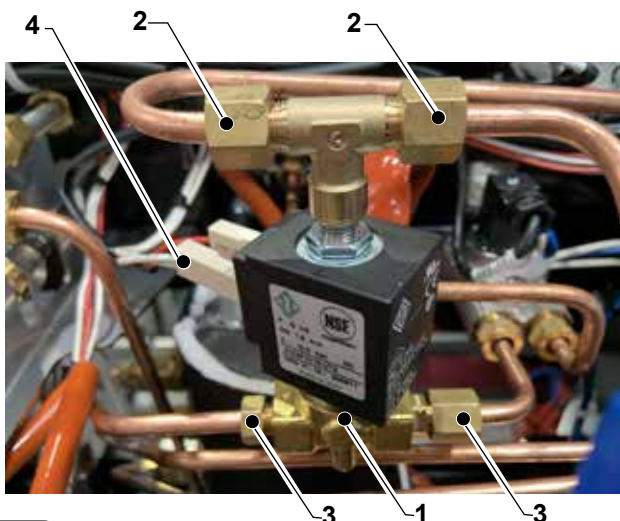
- Remove the lower front panel as indicated in the relevant paragraph (4.3).
- Close the tap (6).
- Find the filter to change or to clean and loosen the relevant copper pipe connected (1).
- Remove the fitting (2) and replace the filter (3).
- Upon refitting, pay attention to reinsert the seal (4) and smear loctite on the tapered threading (5).



EN


7.16 Replacing the pre-infusion solenoid valve

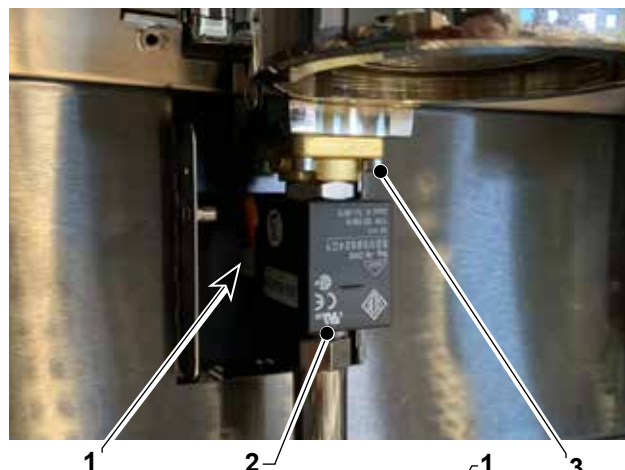
- Remove the cup warmer as indicated in the relevant paragraph (3).
- Close the pre-heated water shut-off valves (see paragraph 5.1 no.16) and cold water shut-off valve (see paragraph 5.2 no.12).
- Disconnect the two fastons (4).
- Loosen the two copper pipes (2) connected to the T-shaped fitting.
- Loosen the two copper pipes (3) connected to solenoid valve (1).



7.17 Replacing the group solenoid valve

- Remove the solenoid valve covers as indicated in the relevant paragraph (4.3).
- Close the water inlet tap.
- Drain the coffee boiler (paragraph 7.7 no.1).
- Disconnect the two fastons (1).
- Loosen the four screws (3) and remove the core with the coil, or remove the clamp (2) to remove the coil only.

 Upon refitting the core, pay attention to refit the gasket, core and spring correctly.

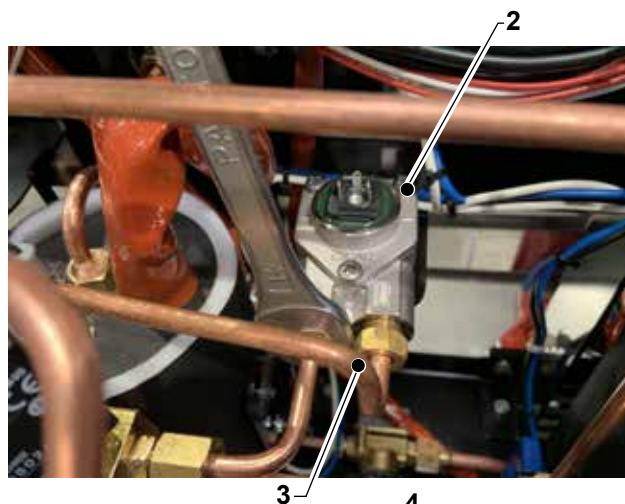


7.18 Replacing the volumetric flow meter

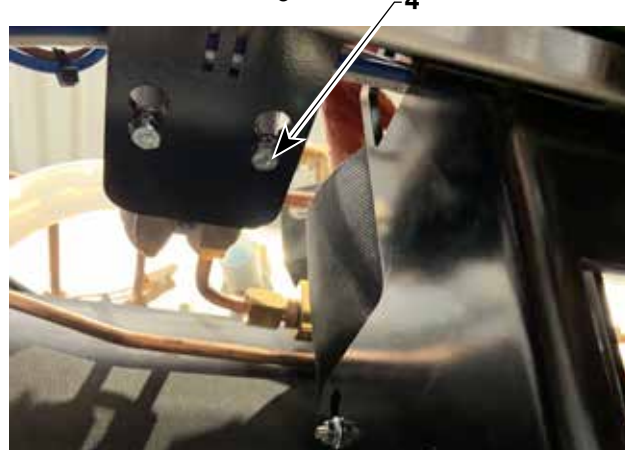
- Remove the cup warmer as indicated in the relevant paragraph (3).
- Close the water inlet tap.
- Drain the coffee boiler (paragraph 7.7 no.1).
- Remove the lower front panel as indicated in the relevant paragraph (4.3).
- Loosen the screw (1) and remove the head.



- Loosen the two copper pipes (3) using the wrench no.14.



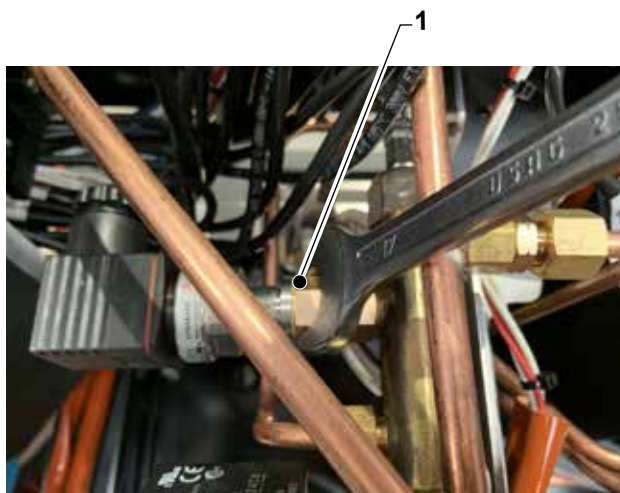
- Loosen the two nuts (4) placed under the support bracket, then pull out the volumetric flow meter (2).



EN

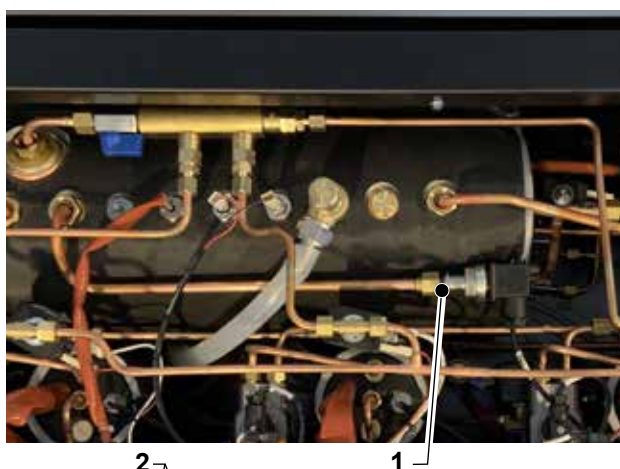
7.19 Replacing the pump pressure transducer

- Remove the cup warmer as indicated in the relevant paragraph (3).
- Close the water inlet tap.
- Loosen the transducer (1) with wrench no.17.
- Loosen the screw and disconnect the contacts from the transducer.



7.20 Replacing the service boiler pressure transducer (Optional)

- Remove the cup warmer as indicated in the relevant paragraph (3).
- Decrease the inner pressure by turning the machine off and by opening the steam taps and/or service boiler drain tap (paragraph 7.8).
- Loosen transducer (1) and disconnect the coil.



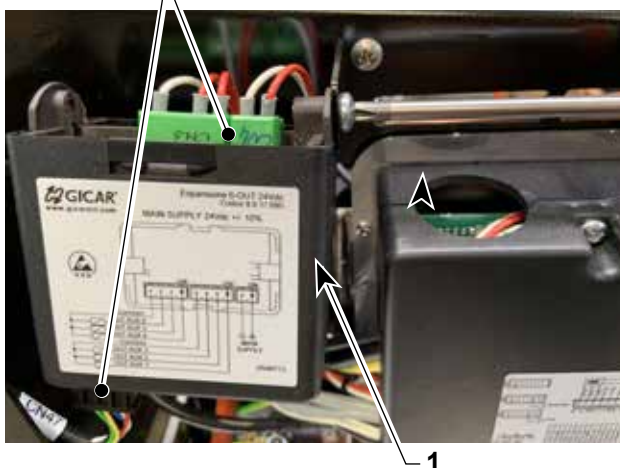
7.21 Replacing the pre-infusion expansion board

- Remove the right side panel as indicated in the relevant paragraph (4).
- Loosen the fastening screw of the expansion board (1).
- Disconnect the connectors (2).

EN



Mark the position of the connectors so that upon board refitting they are inserted in the relevant seat.



7.22 Replacing the electronic board

- Remove the right side panel as indicated in the relevant paragraph (4).
- Unscrew the two screws (1) and remove the cover (2) of the electronic board.



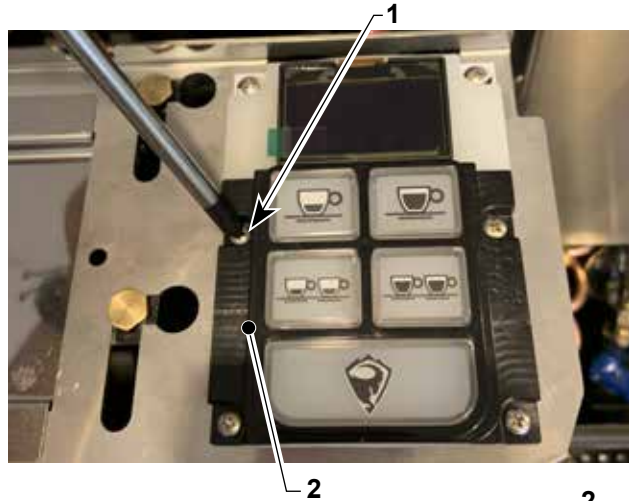
- Disconnect all board connectors, loosen the screws (3) and remove the board.



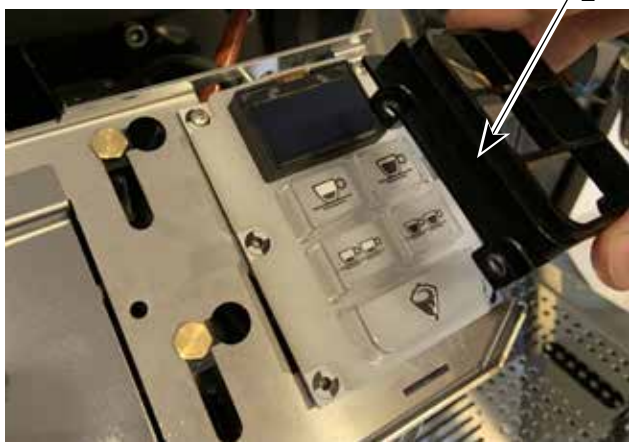
EN

7.23 Replacing the push-button panel

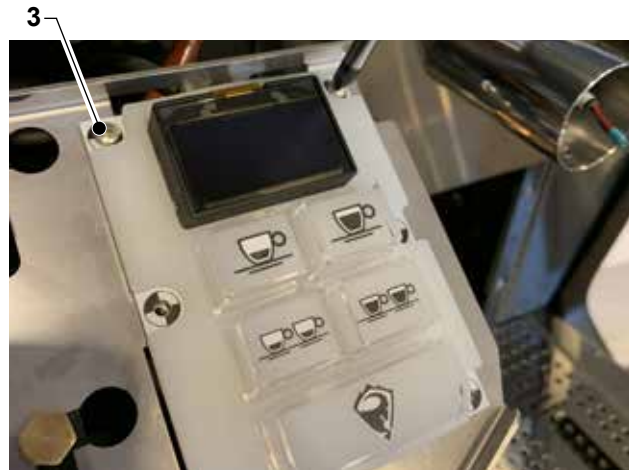
- Remove the control panel as indicated in the relevant paragraph (4.2).
- Remove the 4 screws (1) that close the plastic frame (2) of the push-button panel.



- Remove the plastic frame (2) of the push-button panel

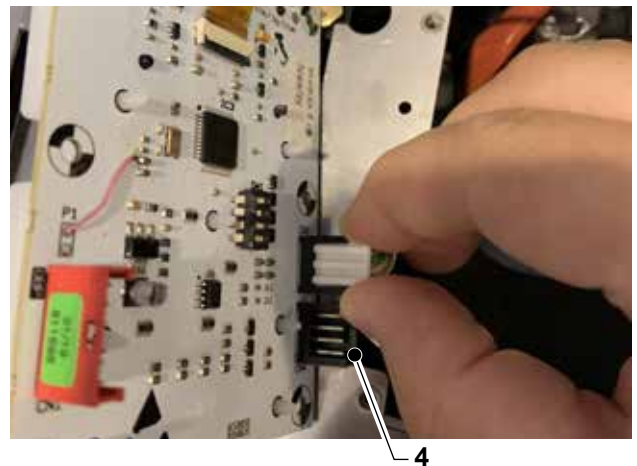



- Remove the 2 remaining screws (3).

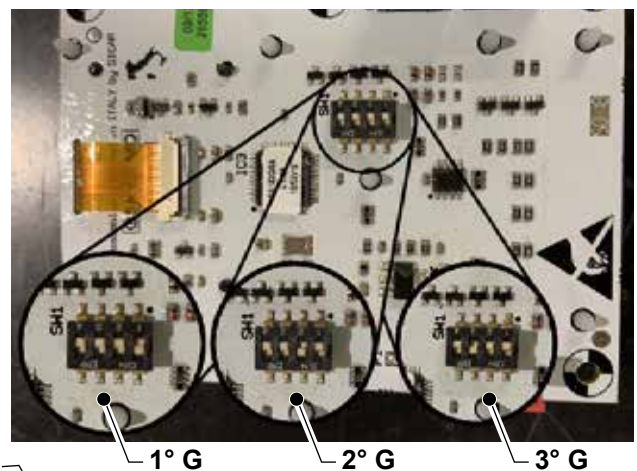


- Lift the push-button panel and disconnect the connector(s) (4) present on the rear side of the push-button panel.

 Refit the push-button panel following the operations in reverse order. Check the correct electrical connection.

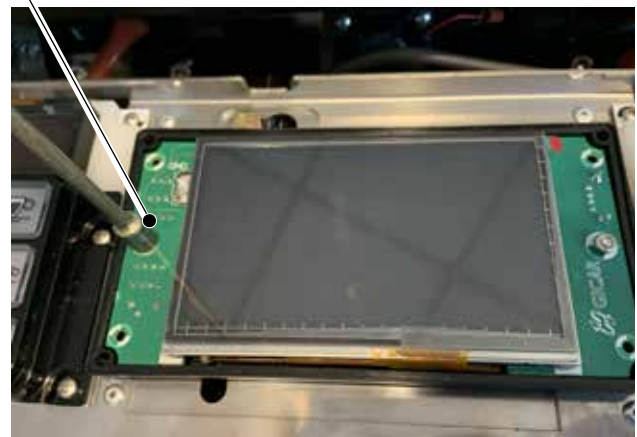


 Attention: Before the installation, in the switch on the back of the button panel, select the reference group (see photo).

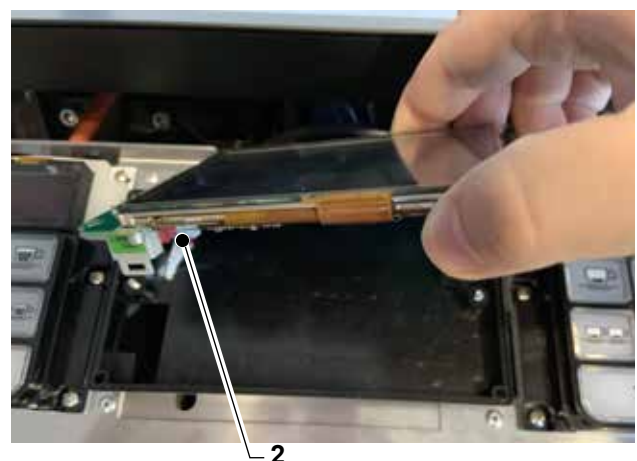


7.24 Replacing the group display

- Remove the control panel as indicated in the relevant paragraph (4.2).
- Loosen the two M3 steel nuts (1) with socket wrench no.5.



- Lift the display and disconnect the connector (2).
- Remove the display.

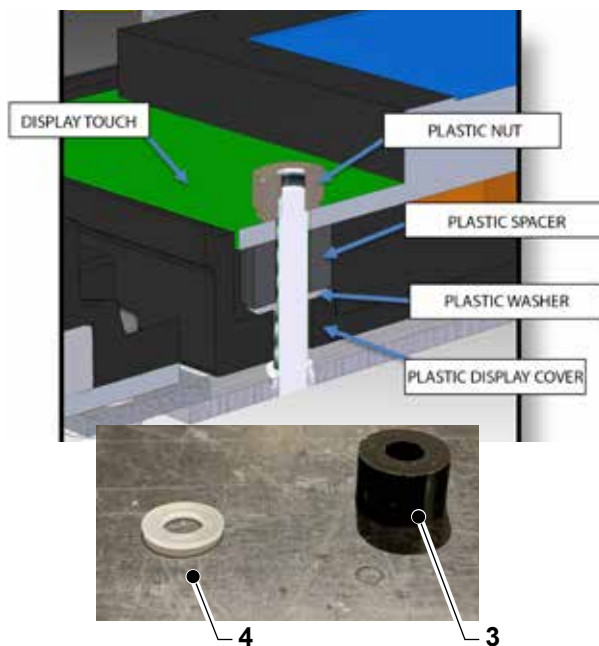


EN



Refit the display following the operations in reverse order. Check the correct electrical connection. Check for the presence of plastic spacers (3) and washers (4) in the same position as photo on the side.

Before refitting the control panel check that the protective plexiglass is clean.

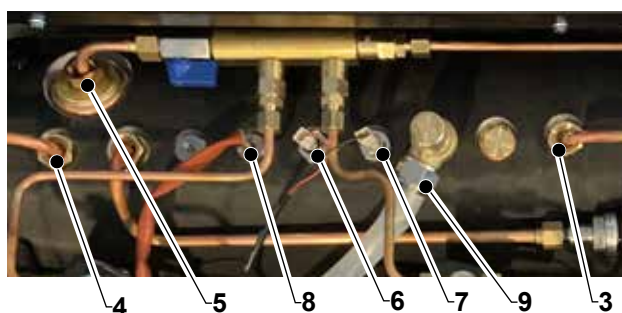


7.25 Removing the service boiler

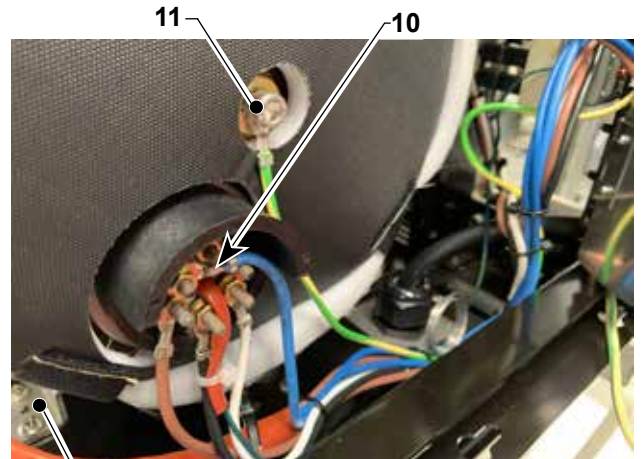
- Remove the cup warmer as indicated in the relevant paragraph (3), the left side panel and the rear panel as indicated in the relevant paragraphs (4.3 and 4.4).
- Turn the machine off.
- Close the water inlet tap.
- Drain the water inside the service boiler (see paragraph 7.8).
- Loosen all pipes connected to the boiler:
 - Steam/hot water intake pipe (1).
 - Boiler intake pipe (2).



- RH steam pipe (3).
- LH steam pipe (4).
- Exchanger outlet pipe (5).
- Boiler drain pipe.
- Disconnect the maximum level probe connector (6).
- Disconnect the minimum level probe connector (7).
- Disconnect the temperature probe (8).
- Remove the safety valve drain pipe (9).



- Disconnect the heating element electrical connection cables (10).
- Loosen the nut and remove the ground wire (11).
- Loosen the two fastening screws of the boiler (12).
- Extract the boiler from the rear side.



Before removing any components listed above, close the steam shut-off valve (14), after removing the cup warmer, as indicated in the previous paragraph.



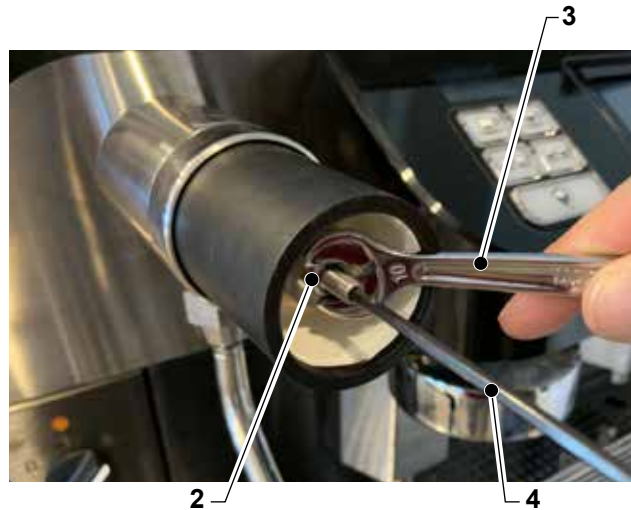
7.26 Servicing the steam wand and tap

- Remove the knob plug (1).

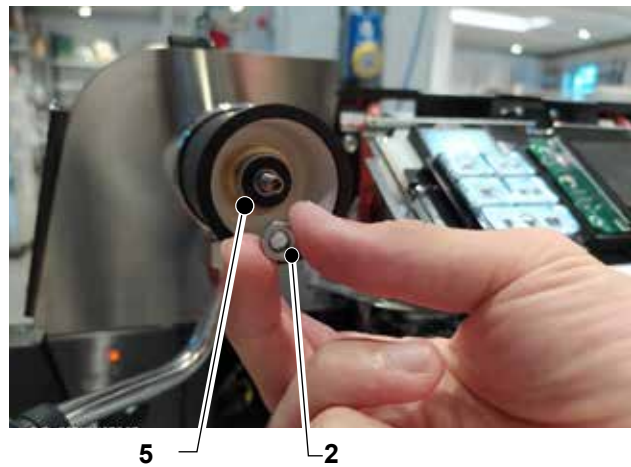


EN

- Using an adjustable wrench no.10 (3) loosen the self-locking nut (2) while holding the steel pin of the steam tap still using an Allen key no.3 (4).



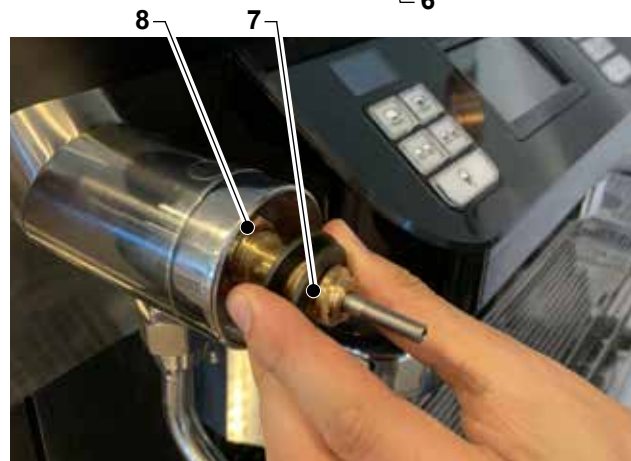
- Remove the self-locking nut (2) and bearing (5).



- Loosen the steam tap knob (6).



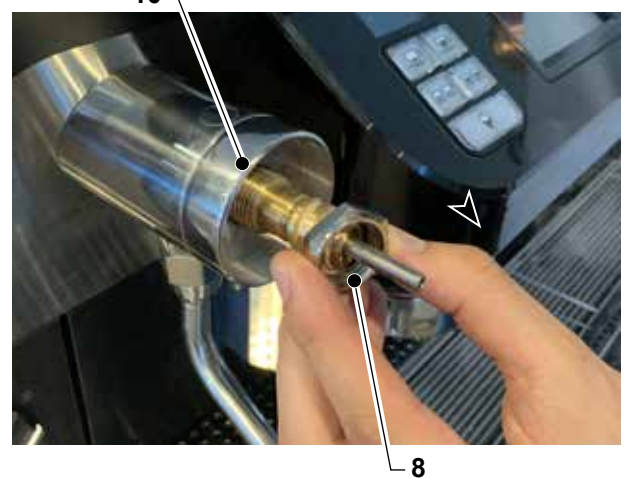
- Remove the Belleville washers (7).



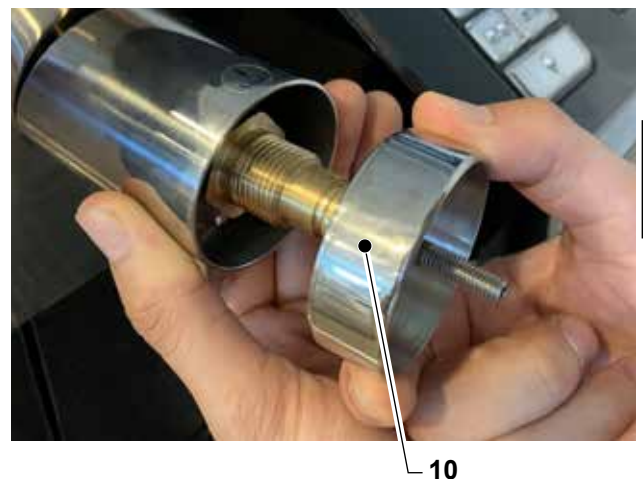
- Loosen the nut (8) using a socket wrench no.26 (9).



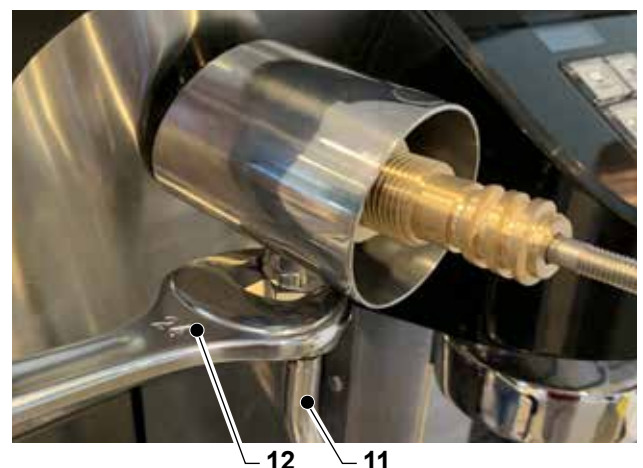
- Remove the nut (8) from the steam tap body.



- Pull out the steam tap liner bushing (10).



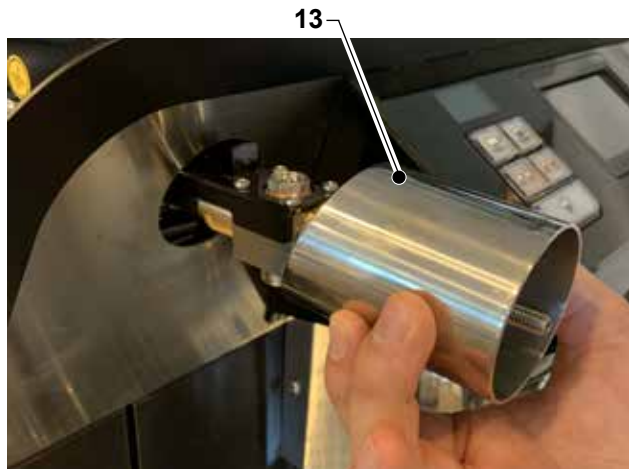
- Loosen the steam wand (11) using a wrench no.24 (12).



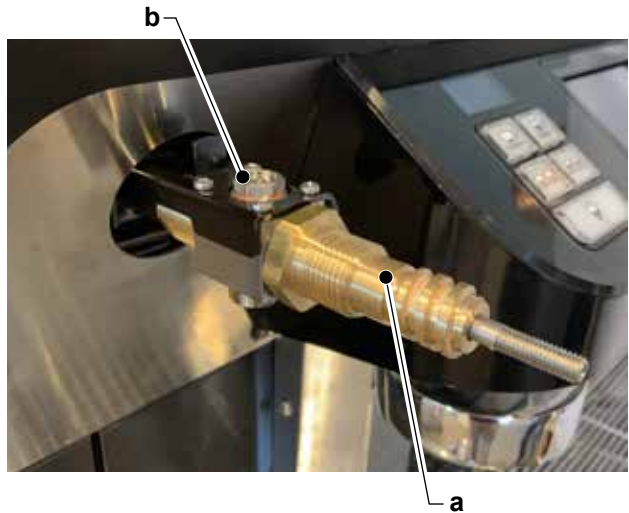
EN



- Pull out the steam tap liner pipe (13).



- Parts subject to maintenance:**
- a) Brass steam tap body
 - b) Vacuum breaker



Removing the brass steam tap body (a)

- Use a wrench no. 26 (15) to take the steel body of the steam tap (16).



- Loosen the brass steam tap body (a) using a wrench no.27 (17).



It is now possible to replace the inner seals, which can be ordered through the F18 spare parts catalogue.

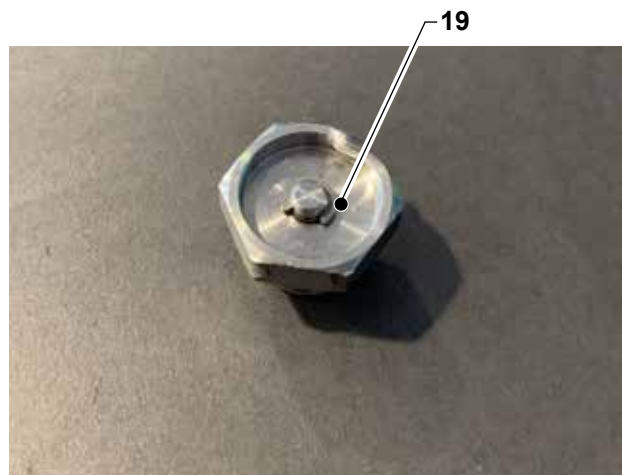
**Removing the vacuum breaker**

- Use a wrench no. 13 (18) to unscrew the vacuum breaker (b).





After removing the circlip (19) replace the internal seals and washers to be ordered through the F18 spare parts catalogue.



Steam wand components:

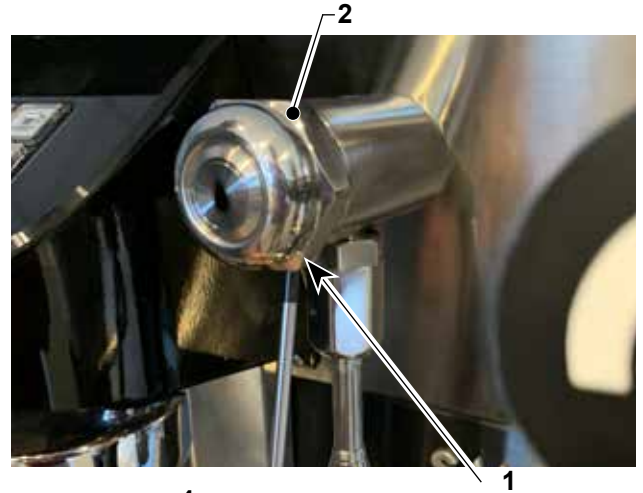
- a) Steam wand
- b) Seal in PTFE
- c) Spring guide
- d) Spring
- e) Tap extension

EN

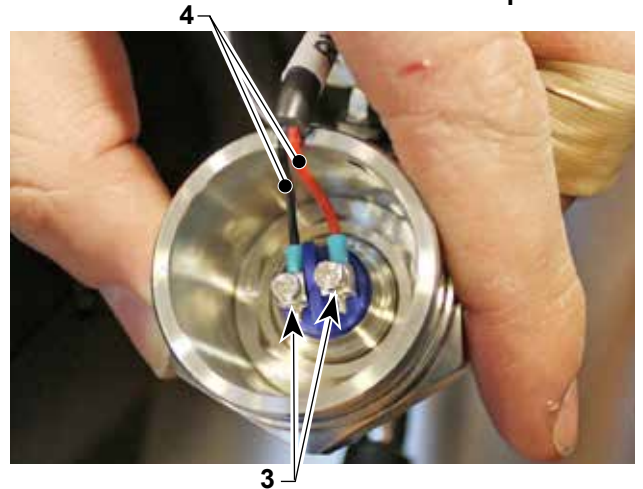


7.27 Replacing the water dispensing button and removing the water dispenser

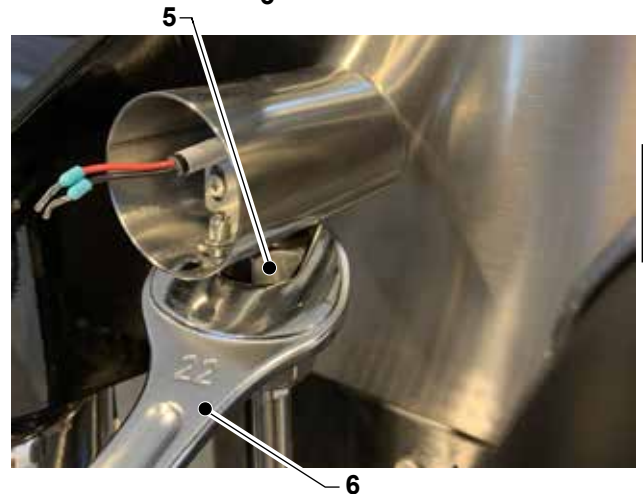
- Unscrew the two screws (1) and remove ring nut (2).



- Unscrew the two screws (3) and disconnect the wires (4).
- Upon reassembly, reconnect the wires (4) correctly.



- Loosen the upper nut (5) using a wrench no. 22 (6).



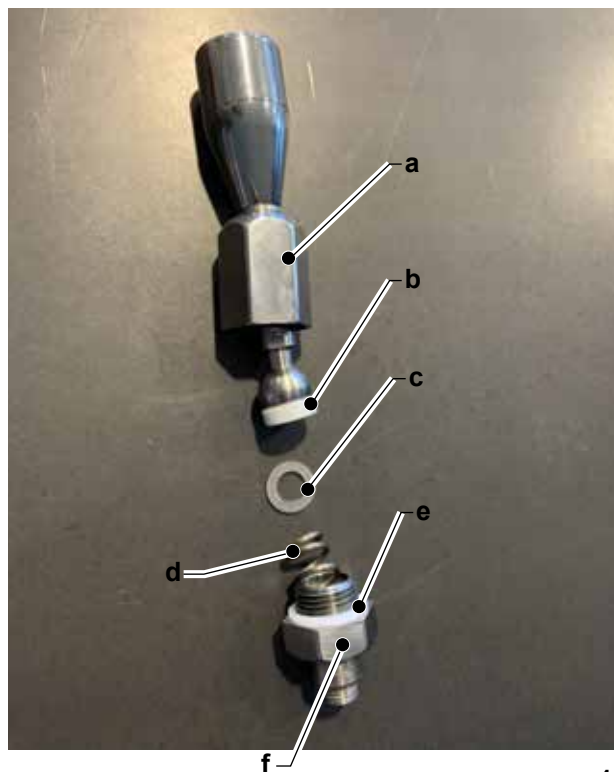
Reapply Loxeal 5811 on the male threading of the extension before reassembling the parts.



EN

Water dispenser components:

- a) Water dispensing nozzle
- b) Cup in PTFE
- c) Cup anti-wear washer
- d) Spring
- e) Extension seal in PTFE
- f) Water dispensing nozzle extension



7.28 Replacing the main switch.

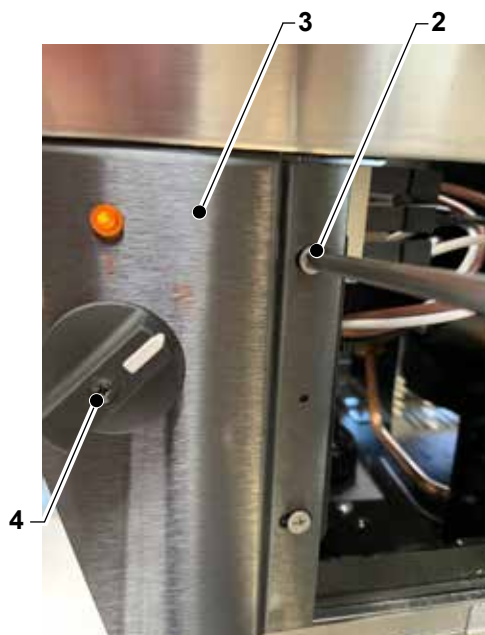


Make sure the main switch placed upstream the machine is set to "OFF", then position a sign on the main switch indicating "Maintenance in progress" so that nobody will connect the machine to the power supply during this operation.

- Remove the left side panel as indicated in the relevant paragraph.
- Remove the lower front panel as indicated in the relevant paragraph.



- Remove the screws (2) of the left lower front panel (3) and of the switch knob (4).



- Remove the left lower front panel (5) by turning it towards yourself and pivoting on the upper hook.



- Loosen the switch fastening screws (6).
- Remove the switch: to be able to replace the part disconnect all cables.



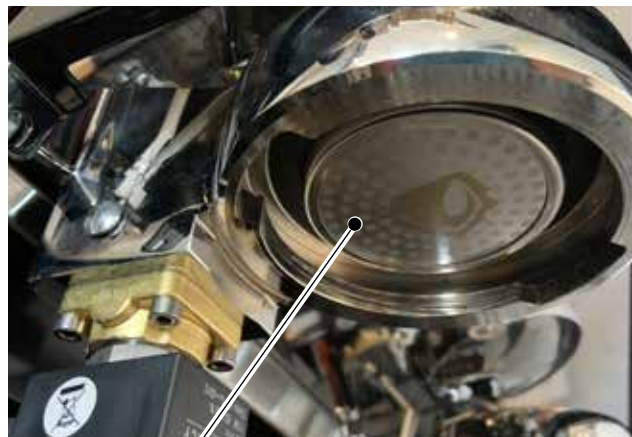
7.29 Replacing the safety thermostat.

- Remove the left side panel as indicated in the relevant paragraph.
- Loosen the two screws (1), disconnect the thermostat (2) from the support bracket and disconnect the fastons.
- Upon refitting, pay attention to correctly connect the fastons.

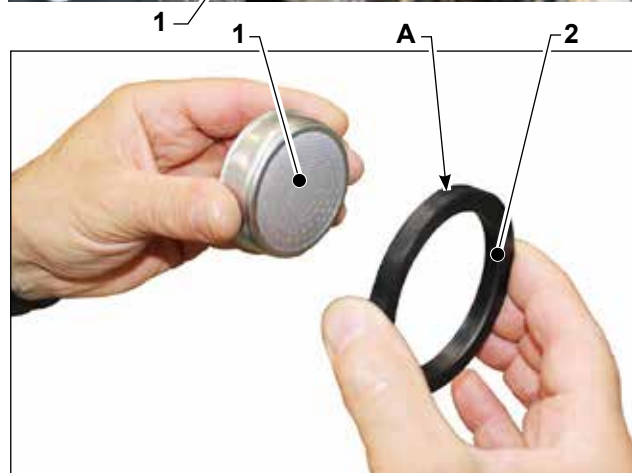


7.30 Removing the head and seals

- Prise with a screwdriver and remove the head (1) with the relevant seal (2).



- Fit the new seal (2) on the head (1).
- The chamfered edges "A" of the seal must face the upper side.




- Remove the filter from the filter holder (3) and fit the head with seal on the filter holder (3).



- Wet the head with water and fit the filter holder (3) into the machine applying enough pressure.
- Lock the filter holder (3).



8. TECHNICIAN PROGRAMMING

To access the programming page, press the button  in the middle of the display for 2 sec.



- To access the programming page set the machine to electronic OFF by pressing the icon "OFF" (1).



- Press the programming icon (2) to access the programming access menu.



- The password to access the technician programming menu is "66666" by default.



EN

- The programming menu allows accessing the technician's (3) and user's (4) settings.

The technician programming is structured with cascading screen pages with the various programming sequences, therefore, to access the desired programming sequence, it is necessary to scroll through the sequences and confirm the set data, until finding the desired sequence to edit.



The technician programming sequences are the following:

- Name
- Phone nr.
- Enable Chrono
- Filling up during disp.
- Energy consumption
- Pressure sensor
- Pump pressure offset
- Flowmeter group 1 ofs.
- Flowmeter group 2 ofs.
- Flowmeter group 3 ofs.
- Ofs. Tset group 1
- Ofs. Tset group 2
- Ofs. Tset group 3
- Doses programming
- Temperature
- Boiler temp.
- Ring 1 temp.
- Ring 2 temp.
- Ring 3 temp.
- Probe sensitivity
- Inactivity time
- Ofs. standby temp.
- Fillingup timeout
- Filter alarm (liters)
- Service cycles
- Steam wand
- Purge enable
- Cleaning cycles
- Coffeè + tea
- Oled screen saver
- Enabling cash counter / cleaning
- Cash counter
- Cleaning
- Change password

The user programming sequences are the following:

- Language
- Date
- Time
- Week day
- Cooling enable
- Change password

8.1 Name

The name of the machine is indicated in this section

- Press the ">" key to move to the next section.



8.2 Phone nr.

This section allows setting the telephone number of the assistance centre; the editable digit is the one flashing;

- to set the digit press the “+” or “-” keys, to confirm the digit and move on to the next digit press the “→” key;
- press the “√” key to confirm the set telephone number and move on to the next section.



8.3 Enable chrono

The chrono function allows viewing the coffee dispensing seconds on the unit display.

- Press the “+” or “-” keys to enable or disable the function.
- Press the “√” key to confirm the selection and move on to the next section.



8.4 Filling up during disp

This section allows starting the pump to fill the boiler during dispensing.

- Press the “+” or “-” keys to enable or disable the function.
- Press the “√” key to confirm the selection and move on to the next section.



8.5 Energy consumption

This function allows setting the machine power from a minimum of 3500 watt to a maximum “Full” of 8750 watt; 6500 watt is the default power.

- Press the “+” or “-” keys to change the power.
- Press the “√” key to confirm the selection and move on to the next section.



EN

8.6 Pressure sensor

This function allows activating or deactivating the pressure sensor on the service boiler.

- Press the “+” or “-” keys to enable or disable the function.
- Press the “√” key to confirm the selection and move on to the next section.



8.7 Pump pressure offset

This function displays the differential between the set pressure and the real pump pressure.

The set value is “1.2” and this value must not be changed.

- Press the “√” key to move to the next section.



8.8 Flowmeter group 1-2-3 ofs.

- If inconsistencies have been found between the set millilitres and the dispensed millilitres it is possible to correct the setting by pressing the “+” or “-” key
- Press the “√” key to confirm the selection and move on to the next section.



8.9 Ofs. Tset group 1-2-3

- If inconsistencies have been found between the set temperature and the real temperature it is possible to correct them by increasing and decreasing the group temperature.
- Use the “+” or “-” key to set the value.
- Press the “√” key to move to the next section.



8.10 Doses programming

This function allows enabling or disabling the programming of the doses through the keys. In this case set to ON.

- Press the “√” key to move to the next section.



8.11 Temperature (C° / F°)

This section allows setting the temperature range displayed in °C or °F:

- Use the “+” or “-” key to set the range.
- Press the “√” key to confirm the selection and move on to the next section.



8.12 Boiler temp.

Check in this section that the service boiler temperature is set to 122°C / 255°F.

- Press the “√” key to move to the next section.



8.13 Ring 1-2-3 temp.

This section allows setting the temperature of each single group.

- Use the “+” or “-” key to set the value.
- Press the “√” key to move to the next section.



EN

8.14 Probe sensitivity

This section allows selecting the sensitivity of the water level probe of the boiler:

- Through the “+” or “-” key it is possible to set the sensitivity to “Low” - “Medium” - “High” according to the water acidity; with high water acidity the probe must be set to low sensitivity, vice versa it must be set to high sensitivity.
- Usually, setting the “MEDIUM” sensitivity will cover 90% of the cases.



8.15 Inactivity time

In case of machine installed in an outdoor kiosk, with low environmental temperature and machine inactive for a few minutes, the group temperature can drop by 0.5°C or 1°C.

- It is possible to set an inactivity time beyond which the machine automatically increases the temperature of the group equal to the value set in the following screen page “OFS. STANDBY TEMP.”.
- Use the “+” or “-” key to set the values.
- Press the “√” key to move to the next section.



This screen page allows setting for the group the degrees of the temperature to increase due to the inactivity and cold weather.

- This function is usually not needed, therefore, set the value to “0” in both screen pages to disable the function.
- Press the “√” key to move to the next section.



8.16 Fillingup timeout

This section allows setting the opening time of the water filling solenoid valve, after which, if filling is not carried out, the machine sets to lockout condition.

- Use the “+” or “-” key to set the value (usually 120 seconds).
- Press the “√” key to confirm the selection and move on to the next section.



8.17 Filter alarm (liters)

This section allows setting after how many litres of water used to dispense coffee it is necessary to replace the water filter.

- Use the “+” or “-” key to set the litres.
- Press the “√” key to confirm the value and move on to the next section.



8.18 Service cycles

This section allows setting the number of dispensing cycles after which the machine must be serviced.

- Use the “+” or “-” key to set the cycles.
- Upon reaching the number of cycles set on the display the assistance service telephone number will be displayed.
- Press the “√” key to confirm the selection and move on to the next section.



8.19 Steam wand

This section allows activating or deactivating the electronic steam wand.

- press the “+” or “-” key to enable or disable it.
- press the “√” key to confirm the selection and move on to the next section.



8.20 Purge enable

This section allows activating or deactivating the purge. If active, a purge of 2 sec. is performed if the key is pressed once. Continuous mode is set if pressed twice.

- press the “+” or “-” key to enable or disable it.
- press the “√” key to confirm the selection and move on to the next section.



8.21 Cleaning cycles

This section allows you to modify the number of cleaning cycles that are performed during the machine automatic cleaning (min 5, max 25). Cycles are 15 as default.

- Use the “+” or “-” key to set the value (+/- 5 cycles).
- Press the “√” key to confirm the selection and move on to the next section.



8.22 Coffee + tea

This section allows the activation or deactivation of the tea during a coffee or the other way.

If command is 'OFF' during coffee activation it'll be impossible to activate tea, while if a coffee activation starts during a tea activation, tea stops.

The function has been created to have a better pressure control if both the activations start together ('ON' as default).

- press the “+” or “-” key to enable or disable it.
- press the “√” key to confirm the selection and move on to the next section.



8.23 'O'L.E.D. screen saver

This section allows modify minutes before the activation of "O'L.E.D. screen saver". The function turns off group head display, after a certain period of machine inactivity (no coffee activation, no hot water erogation), to guarantee displays' performance.

- Use the “+” or “-” key to set the value.
- Press the “√” key to confirm the selection and move on to the next section.



8.24 Enabling cash counter/cleaning

From firmware revision 1.12 it's possible to able "cash counter" function.

To acces "cash counter" function set machine in electronic OFF, enter in technician progammig and with the "66666" default password enter to the menù. Then press the black square (1) and wait the "CASH COUNTER" section.



8.25 Cash counter

This section allows the activation or deactivation of the cash counter function. Cash counter register is a device that allows coffeè activation through an external cash reister (OFF' as default).

- Use the "+" or "-" key to enable or disable it.
- Press the "√" key to confirm the selection and move on to the next section.



8.26 Cleaning

This section allows the activation or deactivation of the machine automatic cleaning. In case of cash register enabled, cleaning menu (ENABLED as default) allows to disable (if in 'OFF')the group heads cleaning cycle since it could be used to brew coffee.

- Use the "+" or "-" key to enable or disable it.
- Press the "√" key to confirm the selection



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9. BARTENDER PROGRAMMING

9.1 Change password

This section allows changing the password to access the technician section.

- The password to access the technician programming menu is "33333" by default.
- To set the digit press the "+" or "-" keys, to confirm the digit and move on to the next digit press the "→" key.
- Once the new password is set the technician menu is automatically quitted.



9.2 Language

This section allows setting the language of the messages displayed:

- Press the "+" or "-" key to change the language.
- Press the "√" key to confirm the selection and move on to the next section.

The languages available are:

Italian, English, French, German, Spanish.



9.3 Date

This section allows setting the date.

- To set the date press the "+" or "-" keys, to confirm and move on to the next setting press the "→" key.
- Press the "√" key to confirm the selection and move on to the next section.



9.4 Time

This section allows setting the time.

- To set the time press the "+" or "-" keys, to confirm and move on to the next setting press the "→" key.
- Press the "√" key to confirm the selection and move on to the next section.



9.5 Week day

This section allows setting the day of the week.

- To set the day press the “+” or “-” keys, to confirm and move on to the next setting press the “→” key.
- Press the “√” key to confirm the selection and move on to the next section.



9.6 Cooling enable

This section allows activating or deactivating the cooling cycle. Upon activation, the machine drains the water from the service boiler until reaching the minimum level probe. Function used to regenerate the water inside the service boiler:

- press the “+” or “-” key to enable or disable it.
- press the “√” key to confirm the selection and move on to the next section.



9.7 Change password

This section allows changing the password to access the user section.

- To set the digit press the “+” or “-” keys, to confirm the digit and move on to the next digit press the “→” key.
- Once the new password is set the user menu is automatically quitted.



9.8 Counter reset

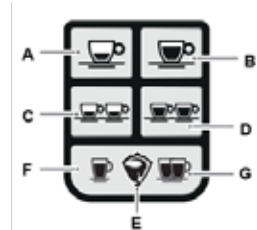
This key combo allows resetting the counters of every group:

- A+E= water filter reset combination (relevant screen page on 4.3”).
- C+E= service counters reset combination (relevant screen page on 4.3”).

Reset factory settings: start machine in position 1 and press and hold simultaneously buttons A+C+E;

Reset factory settings and counters: start machine in position 1 and press and hold simultaneously buttons A+B+C+E;

In both case visualize to display the reset and restart the machine .



EN

10. LIST OF ALARMS

- AL9 = Steam wand probe
- AL8 = Steam wand probe
- AL2 = Steam boiler probe
- AL1 = Steam boiler probe

- AL11 = Pressure pump
- AL10 = Pressure pump
- AL4 = Steam boiler pressure
- AL3 = Steam boiler pressure
- Er5 = Filling SV short circuit
- Er6 = Filling SV open circuit
- Er1 = Hot water SV short circuit
- Er2 = Hot water SV open circuit
- Er3 = Cold water SV short circuit
- Er4 = Cold water SV open circuit
- Er7 = On/Off output short circuit not used
- Er8 = On/Off output open circuit not used
- AL13 = Cup warmer probe
- AL12 = Cup warmer probe

The following alarms will be individually triggered for each group:

- AL7 = Volumetric flow meter (AL7)
- AL2 = Coffee boiler probe (AL2)
- AL1 = Coffee boiler probe (AL1)
- AL6 = Group holder probe (AL6)
- AL5 = Group holder probe (AL5)
- Er1 = Dispensing SV short circuit (Er1)
- Er2 = Dispensing SV open circuit (Er2)

Think
about
it!

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