PHILIPS

Service Manual



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Philips EP 4300 series 5400 series

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Technical information

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Version history

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Important repair instructions

- Only skilled personnel should carry out the repair.
- After repair the appliance should function properly.
- After repair the appliance has to meet the regulatory- and safety requirements that were applicable at the time of release of the model.
- After repair the appliance always has to be tested for electrical safety according VDE 0701-0702 and for medical products IEC 62353.



Technical information

- Voltage : 220 240 V
- Frequency : 50 60 Hz
- Power consumption : 1450 W
- Standby power consumption: 0.22 W
- Auto shut-off time : 15 min
- Capacity water tank
- Capacity coffee bean : 275 g
- Capacity LatteGo
- Capacity Coffee grounds : 12 pucks
- Cord lengh
- Pump pressure : 15 bar
- Adjustable spout height : 85 145 mm
- Weight and dimensions:
- -Weight of product : 7 7.5 kg
- -Dimensions of product : 246 x 372 x 433 mm (WxDxH)

: 1.8 litres removable

: 250 ml

: 1.2 m

Maintenance products

- Descaler 996530067222
- Jar of Grease 132253695601
- Silicone grease 996530045784

Production date (or serial number)



Optional (accessories)

- AquaClean water filter CA6903
- Descaling solution CA6700
- Brew group grease HD5061
- Coffee oil remover tablets CA6704



Overview

Series 4000 CMF



Series 5400 LatteGo



Series 4300 LatteGo





Series 4000 CMF

Series 4300 LatteGo



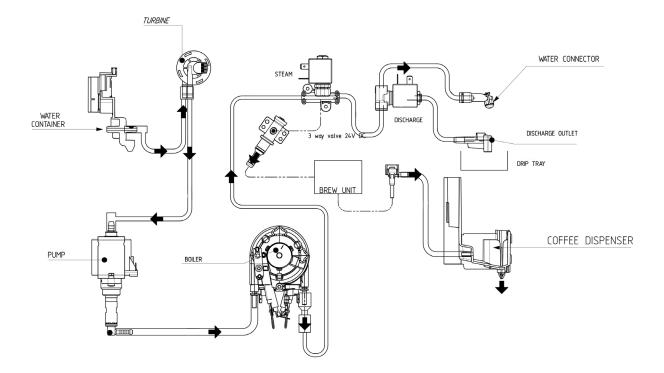




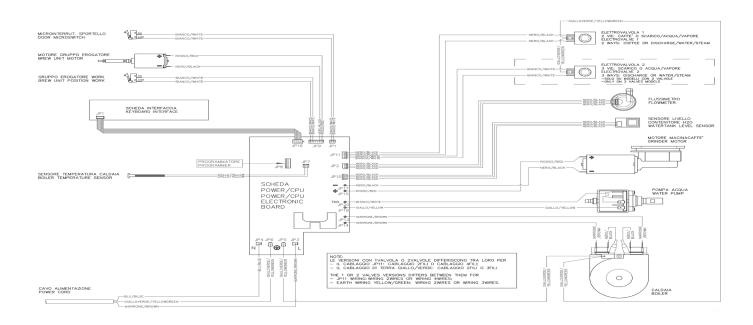
Series 5400 LatteGo

Technical information

Water circuit



Electric circuit





Coffee and machine specifications

Drinks	Min. qty (ml)	Default qty (ml)	Max. qty (ml)		
Espresso	30	40	90		
Ristretto	20	30	60		
Coffee	100	120	220		
Caffe Crema	115	140	220		
Espresso Lungo	60	80	180		
Americano	40	40	40		
Cappuccino (Coffee + milk)	20 (100)	40 (120)	80 (210)		
Caffe latte (Coffee + milk)	30 (80)	60 (140)	90 (340)		
Cafe au lait (Coffee + milk)	50 (50)	90 (90)	150 (150)		
Late macchiato (Coffee + milk)	20 (80)	40 (200)	80 (340)		
Flat White	30 (40)	40 (80)	70 (180)		
Frothed milk	40	180	320		
Travel Mug	0	240	360		
Hot Water	100	150	300		
Coffee grounds d	rawer	Descrip	tion and values		
Time-out for coffee gro	unds drawer	E	5 seconds		
Reset dreg cou	nter	Dreg emptying alarm, if the coffee grounds drawer is removed f more than 5 seconds.			
STANDBY		Descrip	Description and values		
Time (defaul	t)	1	15 minutes		
Time programmed by Con	sumer/Service		NO		
Boiler temperature during Standby		Boiler OFF			
WATER TAN	К	Descrip	Description and values		
Water reserve (pulses) with water filter		125 n	125 ml (260 pulses)		
Water reserve (pulses) with no water filter		125 n	125 ml (260 pulses)		
Nater reserve modifiable by Product	ion/Service departme	ents	NO		
"Fill tank" ala	rm		YES		
Connect to water mains			NO		

Technical information

Specific tools and equipment

Description	Notes
Flathead screwdriver	# 0, # 2
Torx screwdriver	(T10)
Pliers for Oetiker clamps	
Digital Thermometer	Type K (accuracy for temperature of 0,05 % or \pm 0,3°C)
Temperature probe	80PK-22 (80AK-A Thermocouple adapter required)
Scale	KERN EMB 500-1 or comparable device with a base accuracy of 0,05 % or \pm 0,5 g
Power meter	Voltcraft EnergyCheck 3000 or comparable device with a base accuracy of 1 % or ± 5W
Stopwatch	Basic model
Serkit	Tool needed for programming with our service tool
EP series cable	Cable for Philips EP1200-2200-3200 series
EPSC (Espresso Philips Service Center)	Tool used to flash the SW on the machines (for SW upgrade and diagnostics mode). Refer to SDA_114585



Specification for the measurement of the coffee products temperature

Before measuring the in-cup temperature make sure the following conditions will be met:

Conditions:

- a) Water temperature in tank: 23°C (+/-2°C).
- b) Use a plastic cup (see picture 1).
- c) Use a digital thermometer (see picture 2) (e.g. type K probe diameter max 2mm (see picture 3).

d) The coffee machine is tested without any change of parameters or calibrations, which may affect the temperature of products, so the measurement of temperature must be done with machine in default factory setting.

Procedure:

- 1. Place the plastic cup under the dispensing spout. (picture 1)
- 2. Dispense coffee
- 3. Measure the temperature immediately after coffee has being dispensed, you need to finish the measurement within 12 seconds. The temperature in the cup is measured by placing the probe of the thermometer in the cup near the bottom. Then stir the probe in the cup for 5 to 6 times and read out the thermometer values during stirring. Hold the probe still in the center of the cup.
- 4. Record the highest value.

Depending on the coffee volume selected to measure, you would need to position the probe on several height levels to measure the correct temperature in the plastic cup.

10mm for 35gr - 17mm for 60gr - 35mm for 120gr (see Picture 3).

Espresso Coffee Italy Q.ty 40 gr. Temperature of 1st product 69°C ≤ 85°C OFF Tare ON Temperature of 2nd product $72^{\circ}C \le 85^{\circ}C$ Coffee Q.ty 120 gr. DISPLAY Temperature of 1st product $72^{\circ}C \le 85^{\circ}C$ Ø max 2mm Picture 1 Picture 2 Picture 3 for 120gr and 35 mm superior 17 mm for 60gr for 35gr 10 mm

Specification for the measurement of the Milk products temperature.

Before measuring the milk froth temperature and milk froth height make sure the following conditions will be met:

Conditions:

a) Use semi skimmed UHT milk with a fat percentage between 1.5 – 1.8%

b) Milk is cooled between 4 – 8°C (refrigerator temperature).

c) Use a plastic transparent measuring beaker which can hold min 250mL with an inner diameter of 70mm. d) Use a digital thermometer (see picture 2, page 8) (e.g. type K probe diameter max 2mm) (see picture 3, page 8).

Depending on the frothing system, the applicable specification need to be selected to determine if the appliance is within specification.

Available systems:

• Manual system pannarello (CMF)

Temperature specification: delta ≥ 45°C

Froth height specification: ≥ 15mm on 100gr. of brewed milk product

• Automatic system (Latte Go)

Temperature specification: delta ≥ 60°C

Froth height specification: ≥ 15mm on 100gr. of brewed milk product

Milk temperature in the beaker:

- System with CMF: With milk at Trefr. (about 4-10 °C): $\Delta \ge 45$
- System with LatteGo: With milk at Trefr. (about 4-8 °C): $\Delta \ge 60$

How does it work:

- 1. The milk is heated in the first chamber of the carafe thanks to the steam.
- 2. Then, it is mixed with air and frothed in the middle chamber.
- 3. Finally, in the outlet chamber, the 'typhoon effect' perfects the milk texture by removing the large bubbles



Procedure to measure the temperature of the milk.

- 1. Place the beaker under the milk spout.
- 2. Dispense 100gr of milk froth.
- 3. Measure the temperature immediately after milk froth is dispensed, you need to finish the measurement within 5 seconds.
- 4. The temperature is measured by placing the probe of the thermometer ± 10mm above the bottom of the beaker.
- 5. Then stir the probe for 3 to 5 times and read out the thermometer values during stirring, values should stabilize.
- 6. Hold the probe still in the center of the beaker and read out the temperature.



Procedure to measure the milk froth height.

Manual system (CMF)

Pour 100cc. of milk at Trefr. in a beaker of 250 ml of capacity and with a inner diameter of 70 mm; with machine in steam mode:

- 1. Place the beaker with the frother dipped in milk, dispensing steam and start the chronometer.
- 2. After about 30 to 60 seconds, stop the steam and check the result on milk.
- 3. Do not use it with an intermediate position.

Automatic system (Latte Go)

After setting the machine to delivery of 120gr. of product:

- 1. Launch the "hot milk" function.
- 2. Collect the product in a beaker with a 250ml of capacity and with an inner diameter of 70 mm, and verify the result obtained on milk. Carry out the test using milk at a Trefr.

In case the machine allows modify of the emulsion through the menu, use the machine with the emulsion set to the default value.

Related to the above testing procedure derives the following table of acceptability:

Grams of product	Minimun height of the milk cream
≥ 130	≥ 30mm
120	≥25mm
110	≥ 22mm
100	≥ 20mm
90	≥ 16mm
80	≥ 13mm
70	≥ 11mm

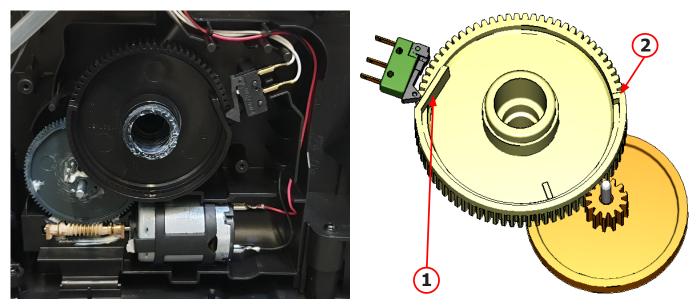
To verify the height of the cream, a practical example is to add to dispensed product a small amount of coffee. The addition of coffee immediately highlights the surface of separation between liquid and cream.

Operating logic

Switching on

When the machine is switched on, the gear motor repositions itself as follows:

- It acts on microswitch 1
- The gear motor changes its rotation direction and moves upwards again by approx. 1-2 mm.
- The boiler begins to heat the water for approx. 45 sec, in order to reach the optimal temperature (established by the software).



The gear motor is powered by a direct current motor that engages with the smaller double toothed wheel using a worm screw. The unit is mounted on the axle of the large gear wheel and when a coffee is requested, it moves from the standby position to the dispensing position, and then back to the standby position again. The microswitch indicates to the gear motor when the brew group is in the work position or home position.

- Standby position: 1
- Dispensing position: 2

Temperature sensor (adjustment)

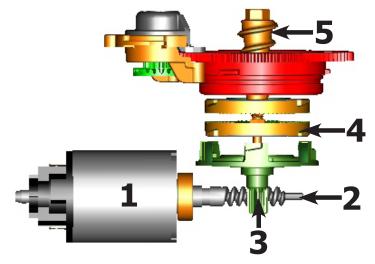
Temp. (°C)	R nom (kΩ)	ΔR (+/- %)
20	61.465	4.0
50	17.617	3.1
75	7.214	2.4
80	6.121	2.3
85	5.213	2.2
90	4.459	2.1
100	3.3	1.8
125	1.653	2.4
150	0.893	2.8

An NTC is used as a temperature sensor; in the event of overheating this reduces boiler element power consumption. The electronic system detects the current boiler temperature from the drop in voltage of the sensor and adjusts it accordingly. Heating element values and corresponding temperatures: see table.



Technical information

Coffee grinder



The coffee grinder is driven by a direct current motor (1) using a worm screw helicoidal wheel transmission (2). The worm screw (2) drives a plastic gear wheel (3), which turns the lower grinder (4) and the increment pin (5)

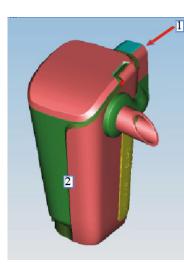
Coffee grinder blocked

When the coffee grinder is working, the software monitors the current consumption. If the current value is very high, the machine concludes that the coffee grinder is blocked; instead, if the current value is in the middle, the machine concludes that all is ok and it goes on to do the product.

Because the current consumption of grinder changes depending on the situations (motor new or old, cold or hot, coffee blends, etc.), these current targets are not static, but dynamic.

Technical information

Milk container



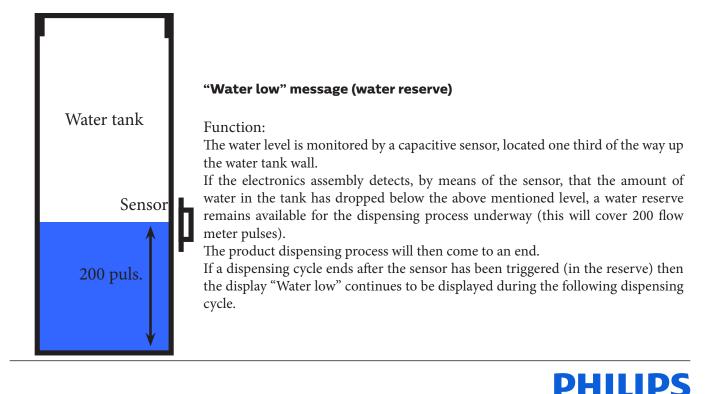
Steam inlet
 Complete LatteGo milk container assy

Steam flows into the LatteGo



Air,steam and milk are mixed at high speed resulting in a dense silky smooth milk foam

Only LatteGo 2.0 is compatible (421945016211- 421945016221). Do not use the first LatteGo carafe version (421944083391-421944083621). The two LatteGo parts clicked together create a channel in which steam pressure sucks up milk througt the hole at the bottom of the container



AquaClean water filter

The AquaClean filter is designed to reduce limescale deposits in the coffee machine and provide filtered water to preserve the aroma and flavor of each cup of coffee. By using a series of 8 AquaClean filters, there is no need to descale the machine for 5000 cups (It depends both on the type of coffee used, rinsing and cleaning programs).

We recommend installing the water filter AquaClean the first use of the machine to the maximum before using 5 L of water. The machine display will indicate when the filter needs to be replaced. The maximum limit is equivalent to 110 L of water.

The conditions related to the filter work environment (water, therefore, an active environment for bacteria and microorganisms), require the replacement with a minimum frequency (we suggest 3 months from the activation to ensure the best performance). The filter starts' working from the time is filled with water and continues working even with the machine off. It cannot be deactivated manually, as it must end its life cycle.

At the filter activation the display shows the icon with the percentage of use:

- Initially 100% then decreasing. When the autonomy of the current filter I

When the autonomy of the current filter becomes less than 8 L of water the display shows:

- The icon flashing slowly. It means 10%.
 When the autonomy of the current filter becomes less than 2 L of water the display shows
- The icon flashing quickly. It means 0%.

After a maximum of 110 L of water supplied the flashing light turn off and the machine needs to be descaled.



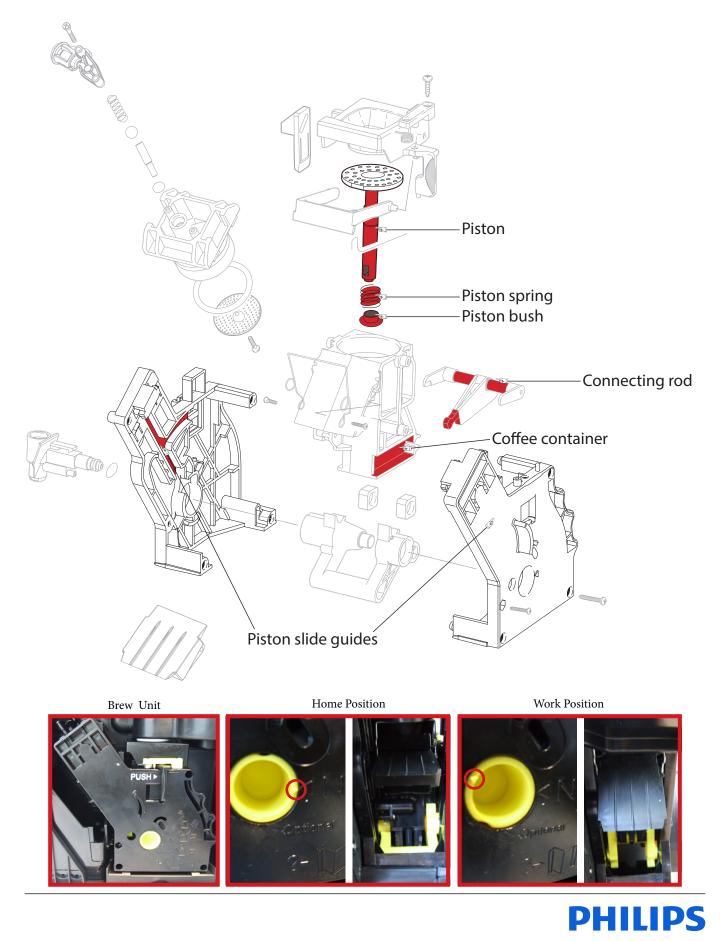
Descaling request

	Descaling frequency in AQUACLEAN					
	The first activation must make before you've paid up to 5000ml products because mind thinks as if he had the filter					
Hardness	Filter number	Percentual on display 10% the icon flashes slowly. (encourage the consumer to buy the filter)	Percentual on display 0% the icon flashes quickly. (tell the consumer to change the filter)	MAX Quantity water, the icon turns off. (repla- ce filter)		
Indifferent	From 1/8 to 7/8 8/8	8050ml	2000ml	110000ml	Replace filter (you can not turn off) Descaling	

If after descaling or after the use of a filter this is not reactivated , the machine recognizes the water hardness setting and calculates as in the table below

Descaling cycle frequency					
Hardness	WATER HARDNESS	Without water filter	Not reactivating the filter		
1	Soft (up to 7°dH)	240 litres (480,000 pulses)	210 litres (420,000 pulses)		
2	Medium (7° - 14°dH)	120 litres (240,000 pulses)	105 litres (210,000 pulses)		
3	Hard (15° - 21°dH)	60 litres (120,000 pulses)	52.5 litres (105,000 pulses)		
4 Very hard (over 21°dH) 30 litres (60,000 pulses) 26.25 litres (52,500 pulses)					
The default wa	The default water hardness level is 4. Each litre of water corresponds to approximately 2,000 pulses.				

Brew Unit mainteinance - where to grease and positions



Before you start dismantling!

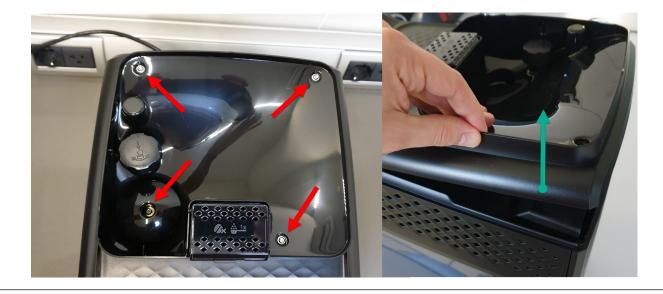
For your safety be sure the plug is disconnected from the mains!

The product is designed for easy access to the internal components. Make sure that all accessories have been removed.



Removal of the housing:

- 1. Make sure the power cable is unplugged.
- 2. Take out the four screws and pull up the upper cover.



3. When assemby the finger-protection screw:

- Up to SN TW901907111749 use torque force 1.2Nm +/- 0.1
- From SN TW901907111750 use torque force 0.8Nm +/- 0.1
- 4. Take out the two screws in the back panel and remove it.



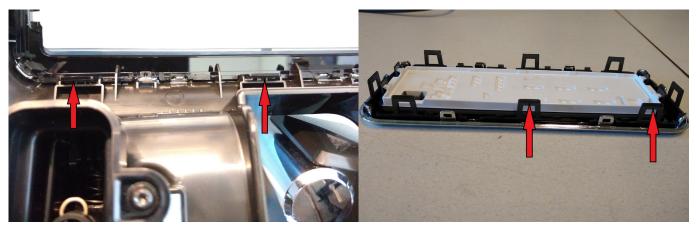
5. To remove the two laterals panel take out 3 screws for each of them





Removal of the UI

1. To remove the UI push the 2 snaps inside (indicated with the red arrows):



2. Slowly remove the UI pulling first the upper part. While doing that take care of the LED guide (in the red cross).



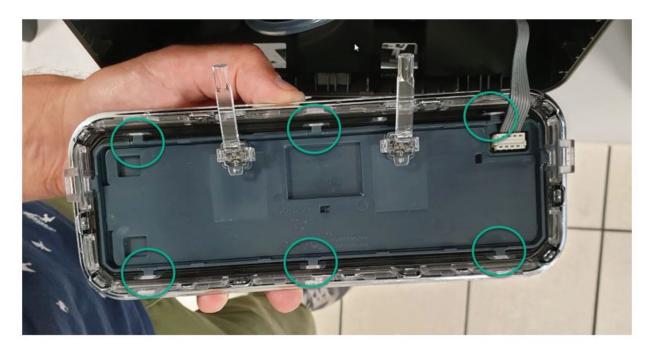
3. Then unplug the cable.

Do not use a screwdriver, but pull it keeping the flat cable and not the connector (some force is required).



Disassembly - and Reassembly advice

4. Click on the 6 snaps to remove the UI board protection.

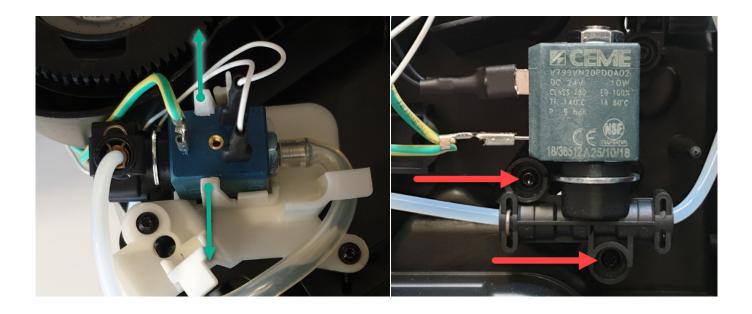


Removal of the Grinder

- 1. Pull out the grinder assy
- 2. Remove the electric connections

Removal of the Electrovalves

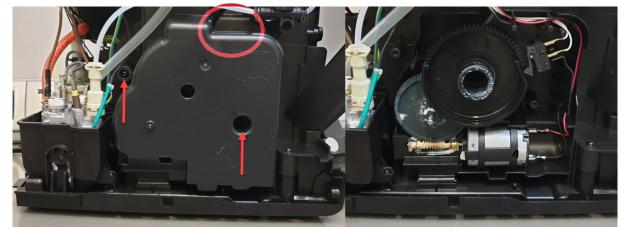
- 1. For the upper EV pull outwards the valve holder.
- 2. For the lateral EV take out the 2 screws, then remove the valve.





Removal of the Gear motor

1. Take out the brew unit motor cover removing the 2 screws



Be aware there is an empty hole (in the red circle). Do not insert any screw inside

Removal of the Boiler

- 1. Remove all the electrical and water circuit connections
- 2. Take out the 2 screws from the boiler support.



Removal of the Flowmeter

- 1. Remove the electric connection
- 2. Press on the holder to pull out the flowmeter, then remove water connections.



Disassembly - and Reassembly advice

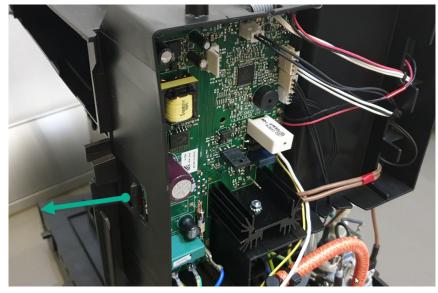
Removal of the Mainboard

- 1. Remove all the electric connections
- 2. Keep pressing on the left holder to be able to release the board.

The mainboard contains several fixed wires which cannot be disconnected from the board.

The UI cable is also fixed to the mainboard.

 $\label{eq:completely} To completely remove the mainboard from the appliance, disconnect all fixed wires from their destination component.$



Removal of the Pump

- 1. Pull the pump holder to the right
- 2. Remove all the connection

When reassembling the pump, ensure to use hot melt to fix the thermal fuse.

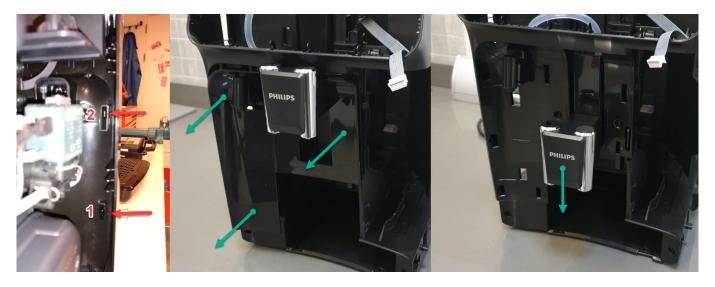




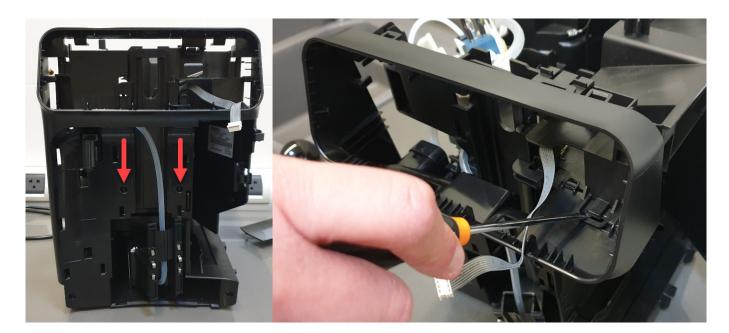
Disassembly - and Reassembly advice

Removal of the Coffee and Water spout

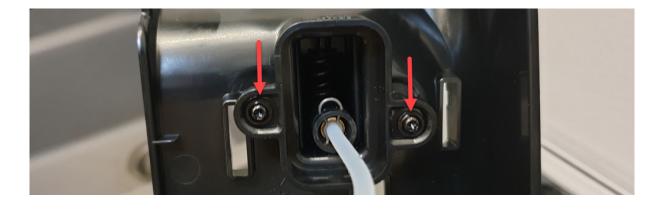
- 1. To remove the front panel start at the lower snap (1). Push to the left and on top of it, then the cover opens at the front side and you can put a finger (nail) in between. Then push on the upper snap nock (2).
- 2. Pull down the coffee spout, then remove the pipe.



- 3. Take out the 2 screws
- 4. Unsnap the click (as shown in picture) and pull the front case cover to remove it (some force is needed).

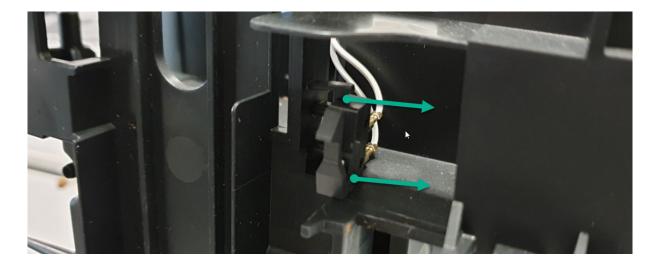


5. Remove the two screws to release the water spout.



Removal of the Microswitch

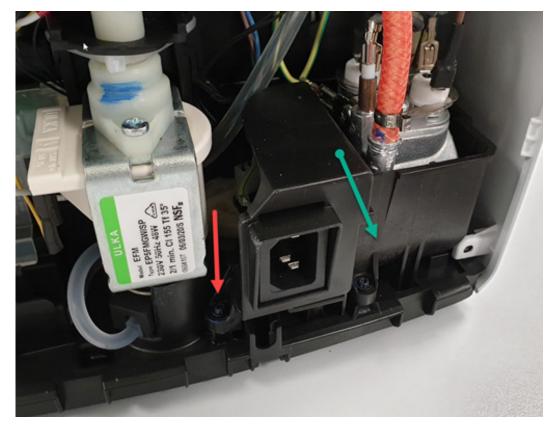
1. To remove the microswitch please take extra care, slowly pulling it out from its place, then remove the connections.



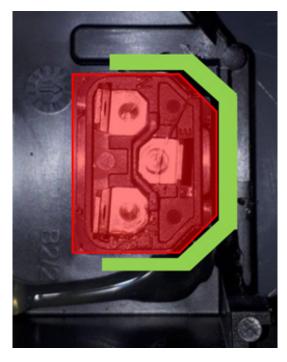


Removal of the IEC Connector

1. Remove the screw as shown in the picture, then you are free to unlock it and to remove the connection.



2. That 2 parts are glued. In case of replacement, order both parts and apply some hot glue as shown in green:



In case of Error 19, properly check the socket and cable connection.

Introduction

Test mode is used to test the machine in its mechanics and electronic components

How it works

The machine enters in test mode by pressing in sequence K15 - K10 - K11 - K14 in the first two seconds after switching on the machine by mean of the main switch on the backside of the CA.

Series 4000 CMF







Series 4300 LatteGo



Series 5400 LatteGo



There are 3 different levels, in each level the coffee-machine can execute different commands,

- Level 1: In this level the operator can
 - 1. test all the Buttons and Leds activation and color:
 - a. Buttons : K1, K2, K3, K4, K5, K6, K7, K8, K10, K11, K12, K13, K14, K15, K16.
 - b. Leds :L1(W), L2(W), L3(W), L4(W), L5(W), L6(W), L7(W), L8(R), L8(G), L8(B), L10(W), L11(W), L12(W), L13(W), L14(W), L15(W), L16(W), L17(W), L18(W).
 - 2. Check the version of the UI SW.
 - 3. Check the version of the Main SW.
 - 4. Check the version of the UI Boot.
 - 5. Check the version of the Main Boot.
 - 6. Check the frequency of the net (50 Hz, 60 Hz).
 - 7. Check the voltage of the net (120 V, 230 V).
 - 8. Check the buzzer sound.

Level 2: In this level the operator can:

- 1. Test all the loads:
 - a. Move the Brew Unit upward and downward.
 - b. Open/Closed the EVs.
 - c. Start the Pump.
 - d. Start the Heater.
 - e. Start the Grinder.
- 2. Test all the sensors:
 - a. Microswitch door activated/not activated.
 - b. Microswitch BU position (work/home) activated/not activated.
 - c. Hall sensor water level activated/not activated.
 - d. Flowmeter
 - e. NTC
- 3. Execute special functions:
 - a. Steam-out (see dedicated documents).
 - b. execute the Reset to default (see dedicated document).
 - c. Reset of the Error log
 - d. Reset of the Grinder parameters.

The user can switch the level by pressing the Button KO.

Legend:

 (O) = Orange

 (B) = Blu

 (R) = Red

 (G) = Green

 (W) = White

 TEST MODE Level1

 ▼

 Pressing button Stand-By

 TEST MODE Level2

At the start up all loads are turned off. The software allow to have multiple loads active at the same time.



Level 1 (Keys, Buzzer, Leds, SW version, Net frequency, Net voltage)

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		UI/DISPLAY STATUS						
drawer, Door open, No Water		On UI: All Leds;						
		On Display: Name of the buttins, all tiles OFF						
Sequence of		Reaction of the appliance						
actions by user	D	PASS FAIL Cause of failure Solution						
	L1 White ON in l		L1 OFF & BoxK1 White	L1 damaged	Change UI board			
			L1(!W) ON & BoxK1 White	L1 wrong color	Change UI board			
			Other Lx toggle	Short circuit in Led	Change UI board			
Press button K1	Espresso Collee America C	s and Leds	Other BoxKx White	Short circuit in Buttons	Change UI board			
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board				
		The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board				
		File of the UI panel ext on the Display	The text on the Tile of the UI panel is different to the text on the Display	Wrong software uploaded in the UI	Change the UI SW			
Press button K1 (optional)	Espresso Collee America C	in Display +						

Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution	
Press button K1 (optional)	• Hear the feedback sound.				
	L2 White ON in UI panel +	L2 OFF & BoxK2 White	L2 damaged	Change UI board	
		L2(!W) ON & BoxK2 White	L2 wrong color	Change UI board	
		Other Lx toggle	Short circuit in Led	Change UI board	
	BoxK2 White in Display + Test Keys and Leds Espress Coffee America Caffe Risterto Hot Steam Crema Water				
Press button K2	Profile SW UI SW MAIN 00.00.02 BOOT UI BOOT MAIN 00.00.02 BOOT MAIN 00.00.02 BOOT MAIN 00.00.02 BOOT MAIN 00.00.03 BOOT MAIN 00.00.03 BOOT MAIN 00.00 D K	Other BoxKx White	Short circuit in Buttons	Change UI board	
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
		The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	The text on the Tile of the UI panel is equal to the text on the Display	The text on the Tile of the UI panel is different to the text on the Display	Wrong software uploaded in the UI	Change Main Board	
	 L2 OFF in UI panel + BoxK2 OFF in Display + 				
Press button K2 (optional)	Test Keys and Leds Expresso Collice America Callie Raterito Hot Steam Profile SW UI SW MAIN Up Back Profile SW UI SW MAIN Up Back Clean Setting BOOT UI BOOT MAIN Down Dk SiHz 230V Down Dk Steam Steam				
	• Hear the feedback sound.				



Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution	
	• L3 White ON in UI panel +	L3 OFF & BoxK3 White	L3 damaged	Change UI boad	
		L3(!W) ON & BoxK3 White	L3 wrong color	Change UI boad	
		Other Lx toggle	Short circuit in Led	Change UI boad	
	• BoxK3 White in Display +				
Press button K3	Test Keys and Leds Expresso Coffee America Caffe Ristretto Hot Steam Profile SW UI SW MAIN Up Back BOOT UI BOOT MAIN Down Dk Clean Setting SOHz 230V Down Dk	Other BoxKx White	Short circuit in Buttons	Change UI boad	
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
		The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	The text on the Tile of the UI panel is equal to the text on the Display	The text on the Tile of the UI panel is different to the text on the Display	Wrong software uploaded in the UI	Change the UI SW	
	 L3 OFF in UI panel + Image: A state of the s				
Press button K3 (optional)	Test Keys and Leds Expresso Coffee America Caffe Ristretto Not Stram Profile SW UI SW MAIN Up Back Octool SW UI SW MAIN Up Back Octool SW UI SW MAIN Up Back Octool SW UI SW MAIN Down Dk StHiz 230V Down Dk Hear the feedback sound. Sund. Sund. Sund.				

Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution	
	L4 White ON in UI panel +	L4 OFF & BoxK4 White	L4 damaged	Change UI board	
		L4(!W) ON & BoxK4 White	L4 wrong color	Change UI board	
		Other Lx toggle	Short circuit in Led	Change UI board	
Press button K4	BoxK4 White in Display + Test Keys and Leds Espresso Coffee America Caffle Ristretto Hot Steam Profile SW UI SW MAIN Up Back Profile SW UI SW MAIN Up Back BOOT UI BOOT MAIN Down Dk SHz 230V Down Dk	Other BoxKx White	Short circuit in Buttons	Change UI board	
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
		The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	The text on the Tile of the UI panel is equal to the text on the Display	The text on the Tile of the UI panel is different to the text on the Display	Wrong software uploaded in the UI	Change Main Board	
Press button K4 (optional)	 L4 OFF in UI panel + Image: Control of the second sec				



Reaction of the appliance				
PASS	FAIL	Cause of failure	Solution	
L5 White ON in UI panel +	L5 OFF & BoxK5 White	L5 damaged	Change UI boad	
	L5(!W) ON & BoxK5 White	L5 wrong color	Change UI boad	
	Other Lx toggle	Short circuit in Led	Change UI boad	
BoxK5 White in Display +				
Test Keys and Leds Expresso Coffee America Caffle Ristretto Hot Steam Profile Image: Confee Control of	Other BoxKx White	Short circuit in Buttons	Change UI board	
Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
The text on the Tile of the UI panel is equal to the text on the Display	The text on the Tile of the UI panel is different to the text on the Display	Wrong software uploaded in the UI	Change the UI SW	
Image:				
	L5 White ON in UI panel + ES White in Display + Fest Keys and Leds Exercise of a meeter of the Leds SW U 0 SW UANN UP Book Polie 0 SW U 0 SW UANN UP Book Cean Setting 00001 BOOT MANN OWN OK SHE 2007 DAWN OWN OK Hear the feedback sound. The text on the Tile of the UI panel is equal to the text on the Display - L5 OFF in UI panel + EST Keys and Leds - BoxK5 OFF in Display + Estet Source of the UI panel - BoxK5 OFF in Display +	PASS FAIL L5 White ON in UI panel + L5 OFF & If is construction of the in Display + Escars white If is construction of the in Display + If is not possible to hear the sound If is not possible to hear the sound If is not possible to hear the sound Hear the feedback sound. If is not possible to hear the sound The text on the Tile of the UI panel is equal to the text on the Display + If is not possible to hear the sound It is cound is persistent It is not possible to hear the sound The text on the Tile of the UI panel is equal to the text on the Display It is not possible to hear the sound It is cound is persistent It is not possible to hear the sound The text on the Tile of the UI panel is equal to the text on the Display It is not possible to hear the sound It is cound is persistent It is not possible to hear the sound It is cound is persistent It is not possible to hear the sound It is cound is persistent It is not possible to hear the sound It is cound is persistent It is not possible to hear the sound It is cound is persistent It is not possible to hear the sound It is cound is persistent It is not possible to hear the sound It is cound is persistent	PASS FAIL Cause of failure L5 White ON in UI panel + L5 OFF & L5 damaged Image: Control of the Display + Edwt5 White L5 wrong color BoxK5 White in Display + Cher Lx toggle Short circuit in Led BoxK5 White in Display + Image: Control of the Display + Short circuit in Buttons Image: Control of the Display + Image: Control of the Display + Short circuit in Buttons Image: Control of the Display + It's not possible to hear the sound The drive of the Buzzer or the Buzzer in the Main is damaged Hear the feedback sound. The text on the Tile of the UI panel is different to the to UI panel is different to the text on the Display Wrong software uploaded in the UI panel is different to the text on the Display + Image: Control of the Display + Image: Control of the Display + Short circuit in Buttons Image: Control of the Display + Image: Control of the Display + Wrong software uploaded in the UI panel is different to the text on the Display + Image: Control of the Display + Image: Control of the Display + Image: Control of the Display + Image: Control of the Display + Image: Control of the Display + Image: Control of the Display + Image: Contro of the Display + Image: Co	

Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL Cause of failure Solution			
	L6 White ON in UI panel +	L6 OFF & BoxK6 White	L6 damaged	Change UI board	
		L6(!W) ON & BoxK6 White	L6 wrong color	Change UI board	
		Other Lx toggle	Short circuit in Led	Change UI board	
	BoxK6 White in Display +				
Press button K6	Test Keys and Leds Expresso Colfee America Callle Drema Ristretto Hot Water Steam Profile SW UI 00.00.01 SW MAIN 00.00.02 Up Back Clean Setting 50Hz BOOT UI 50Hz BOOT MAIN 230V Down Dk	Other BoxKx White	Short circuit in Buttons	Change UI board	
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
		The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	The text on the Tile of the UI panel is equal to the text on the Display	The text on the Tile of the UI panel is different to the text on the Display	Wrong software uploaded in the UI	Change Main Board	
Press button K6 (optional)	 L6 OFF in UI panel + Image: Contrast of the second se				



Sequence of	Reaction of the appliance			
actions by user	PASS	FAIL	Cause of failure	Solution
Press button K7	L7 White ON in UI panel +	L7 OFF & BoxK7 White	L7 damaged	Change UI boad
		L7(!W) ON & BoxK7 White	L7 wrong color	Change UI boad
		Other Lx toggle	Short circuit in Led	Change UI boad
	BoxK7 White in Display +			
	Test Keys and Leds Expresso Colfee America Calle Ristretto Hot Steam Profile SW UI SW MAIN Up Back Clean Setting BOOT UI BOOT MAIN Down Dk Stolkz 230V Down Dk Down Dk	Other BoxKx White	Short circuit in Buttons	Change UI board
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board
		The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board
	The text on the Tile of the UI panel is equal to the text on the Display	The text on the Tile of the UI panel is different to the text on the Display	Wrong software uploaded in the UI	Change the UI SW
Press button K7 (optional)	 L7 OFF in UI panel + Image: A state of the s			
	Other Setting Outpoint Outpoint Outpoint Clean Setting SOHz 230V • Hear the feedback sound.			

Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution	
	L8 Blu ON in UI panel +	L8 OFF & BoxK8 Blu	L8 damaged	Change UI boad	
		L8 (!W) ON & BoxK8 Blu	L8 wrong color	Change UI boad	
		Other Lx toggle	Short circuit in Led	Change UI boad	
Press button K8	BoxK8 Blu in Display + Test Keys and Leds Expresso Coffee America Eal® Ristretto Hot Steam Profile SW UI SW MAIN Up Back BOOT UI BOOT UI BOOT MAIN Down Dk SHitz 230V Down Dk Display +	Other BoxKx Blu	Short circuit in Buttons	Change UI board	
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
		The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	L8 Green ON in UI panel +	L8 OFF & BoxK8 Green	L8 damaged	Change UI board	
		L8(!W) ON & BoxK8 Green	L8 wrong color	Change UI board	
		Other Lx toggle	Short circuit in Led	Change UI board	
Press button K8	BoxK8 Green in Display + Test Keys and Leds Expresso Collee America Ealle Crema Ristretto Hot Steam Proble SW UI 00.00.01 SW MAIN 00.00.02 Up Back Proble Setting BOOT UI 00.00.03 BOOT MAIN 00.00.04 Down Dk	Other BoxKx Green	Short circuit in Buttons	Change UI board	
		It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	Hear the feedback sound.	The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	



Sequence of					
actions by user	PASS	FAIL	Cause of failure	Solution	
	L8 Magenta ON in UI panel +	L8 OFF & BoxK8 Magenta	L8 damaged	Change UI boad	
		L8(!W) ON & BoxK8 Magenta	L8 wrong color	Change UI boad	
		Other Lx toggle	Short circuit in Led	Change UI boad	
Press button K8	BoxK8 Magenta in Display + Test Keys and Leds Expresso Coffee America Eafle Ristretto Hot Steam Profile Crema SW UI SW MAIN Crema SW UI SW MAIN Crema BOOT MAIN Clean Setting SOLUCION SOLUCION SUBC SU	Other BoxKx Magenta	Short circuit in Buttons	Change UI board	
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
		The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	L8 Yellow ON in UI panel +	L8 OFF & BoxK8 Yellow	L8 damaged	Change UI boad	
		L8(!W) ON & BoxK8 Yellow	L8 wrong color	Change UI boad	
		Other Lx toggle	Short circuit in Led	Change UI boad	
Press button K8	BoxK8 Yellow in Display + Test Keys and Leds Expresso Coffee America Caffle Ristretto Not Profile SW UI SW MAIN Up Back Clean Setting BOOT UI BOOT MAIN Down Dk SHiz 230V Down Dk Down Dk	Other BoxKx Yellow	Short circuit in Buttons	Change UI boad	
		It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	Hear the feedback sound.	The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	

Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution	
	L10 White ON in UI panel +	L10 OFF & BoxK10 White	L10 damaged	Change UI boad	
		L8(!W) ON & BoxK10 White	L10 wrong color	Change UI boad	
		Other Lx toggle	Short circuit in Led	Change UI boad	
	BoxK10 White in Display +				
Press button K10	Test Keys and Leds Expresso Coffee America Caffle Ristretto Hot Steam Profile SW UI SW MAIN Valuer Water Profile BOOT UI BOOT MAIN UP Back Clean Setting SOHz 230V Down Dk	Other BoxKx White	Short circuit in Buttons	Change UI boad	
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	fical the recuback sound.	The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	• L10 OFF in UI panel +				
	 BoxK10 OFF in Display + 				
Press button K10 (optional)	Test Keys and Leds Expresso Collee America Calle Ristretto Hot Steam Profile Back SW UI SW MAIN Up Back Profile Boot UI BOOT UI BOOT MAIN Down Dk Clean Setting SHE 230V Down Dk				
	• Hear the feedback sound.				



Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution	
	L11 White ON in UI panel +	L11 OFF & BoxK11 White	L11 damaged	Change UI board	
		L11(!W) ON & BoxK11 White	L11 wrong color	Change UI board	
		Other Lx toggle	Short circuit in Led	Change UI board	
	BoxK11 White in Display +				
Press button K11	Test Keys and Leds Expresso Coffee America Caffee Restretto Hot Steam Profile SW UI SW MAIN Water Profile BOOT UI BOOT MAIN Down Clean Setting SOHz 230V Down	Other BoxKx White	Short circuit in Buttons	Change UI board	
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	fred the recuback sound.	The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
Press button K11 (optional)	 L11 OFF in UI panel + Image: A state of the state of the				

Sequence of		Reaction of the appli	iance	
actions by user	PASS	FAIL	Cause of failure	Solution
	L12 White ON in UI panel +	L12 OFF & BoxK12 White	L12 damaged	Change UI boad
		L12(!W) ON & BoxK12 White	L12 wrong color	Change UI boad
		Other Lx toggle	Short circuit in Led	Change UI boad
	BoxK12 White in Display +			
Press button K12	Test Keys and Leds Espresso Coffee America Caffle Ristretto Hot Steam Profile SW UI SW MAIN Up Back Clean Setting 600T UI B00T MAIN Down Dk Sol4z 230V 230V Down Dk	Other BoxKx White	Short circuit in Buttons	Change UI board
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board
		The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board
	• L12 OFF in UI panel +			
	 BoxK12 OFF in Display + 			
Press button K12 (optional)	Test Keys and Leds Expresso Coffee America Caffle Ristretto Hot Steam Profile SW UI SW MAIN Water Back Profile SW UI SW MAIN Up Back Clean Setting BOOT UI BOOT MAIN Down Dk SofHz 230V Down Dk Dk			
	• Hear the feedback sound.			



Sequence of		Reaction of the appli	ance	
actions by user	PASS	FAIL	Cause of failure	Solution
	L13 White ON in UI panel +	L13 OFF & BoxK13 White	L13 damaged	Change UI boad
		L13(!W) ON & BoxK13 White	L13 wrong color	Change UI boad
		Other Lx toggle	Short circuit in Led	Change UI boad
	BoxK13 White in Display +			
Press button K13	Test Keys and Leds Expresso Colfee America Calle Ristretto Hot Steam Profile SW UI SW MAIN Up Back Profile BOOT UI BOOT VI BOOT MAIN Down Dk Clean Setting S042 230V Down Dk	Other BoxKx White	Short circuit in Buttons	Change UI board
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board
	fical the recuback sound.	The sound is persistent	he drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board
	• L13 OFF in UI panel +			
	 BoxK13 OFF in Display + 			
Press button K13 (optional)	Test Keys and Leds Expresso Coffee America Caffle Rateria Hot Steam Profile Image: Crema SW MAIN Mater Mater Profile Image: Crema SW MAIN Up Back Clean Setting BOOT UI BOOT MAIN Down Dk Sol-Iz 230V Image: Crema Down Dk			
	• Hear the feedback sound.			

Sequence of		Reaction of the appli	ance	
actions by user	PASS	FAIL	Cause of failure	Solution
	L14 White ON in UI panel +	L14 OFF & BoxK14 White	L14 damaged	Change UI board
		L14(!W) ON & BoxK14 White	L14 wrong color	Change UI board
		Other Lx toggle	Short circuit in Led	Change UI board
	BoxK14 White in Display +			
Press button K14	Test Keys and Leds Expresso Coffee America Caffle Ristretto Hot Steam Profile SW UI Crema Water Water Profile SW UI SW MAIN Up Back Clean Setting BOOT UI BOOT MAIN Down Dk SHE 230V Comm Dk Comm Dk	Other BoxKx White	Short circuit in Buttons	Change UI board
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board
		The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board
	• L14 OFF in UI panel +			
	 BoxK14 OFF in Display + 			
Press button K14 (optional)	Test Keys and Leds Expresso Collee America Calle Ristretio Hot Steam Profile a SW UI SW MAIN Up Back Profile a SW UI SW MAIN Up Back Clean Setting BOOT UI BOOT MAIN Down Dk Sol-R 230V Down Dk Discourt Dk			
	• Hear the feedback sound.			



Sequence of		Reaction of the appli	ance	
actions by user	PASS	FAIL	Cause of failure	Solution
	L15 White ON in UI panel +	L15 OFF & BoxK15 White	L15 damaged	Change UI boad
		L15(!W) ON & BoxK15 White	L15 wrong color	Change UI boad
		Other Lx toggle	Short circuit in Led	Change UI boad
	BoxK15 White in Display +			
Press button K15	Test Keys and Leds Expresso Collee America Callle Erema Ristretto Hot Steam Profile Back 00:00:00 SW VII 00:00:00 SW VAIN 00:00:00 Up Back 00:00:00 Clean Setting 00:00:00 BOOT VII 00:00:00 BOOT MAIN 00:00:00 Down Dk	Other BoxKx White	Short circuit in Buttons	Change UI board
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board
		The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board
	• L15 OFF in UI panel +			
	 BoxK4 OFF in Display + 			
Press button K15 (optional)	Test Keys and Leds Espresso Coffee America Caffle Ristretto Hot Steam Profile SW UI SW MAIN Up Back Profile SW UI SW MAIN Up Back Clean Setting BOOT UI BOOT MAIN Down Dk SoHz 230V Down Dk District Caffle			
	• Hear the feedback sound.			

Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution	
			L16 damaged		
	L16 White ON in UI panel +		L17 damaged		
	L17 White ON in left side+	L17 OFF & BoxK16	Wrong back cover		
	L18 White ON in right side	White	Missing left light guide		
			Wrong theater		
			L18 damaged		
			Wrong back cover		
		L18 OFF & BoxK16 White	Missing right light		
		white	guide		
			Wrong theater		
	BoxK16 White in Display + Test Keys and Leds	(L16(!W) ON or L17(!W) ON or L18(!W) ON) & BoxK15 White	L16 or L17 or L18 wrong color		
	Espresso Coffee America Caffé Ristretto Hot Steam	Other Lx toggle	Short circuit in Led		
Press button K16	Profile SW UI SW MAIN Up Back Obj.00.01 00.00.02 00.00.02 Up Back Clean Setting 00.00.03 00.00.04 Down Dk SOHz 230V Play-Stop + Theater Light Example Example Example	Other BoxKx White	Short circuit in Buttons		
	Hear the feedback sound.	It's not possible to hear the sound	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
	 Check the two theater leds (only in the EP544x model) 	The sound is persistent	The drive of the Buzzer or the Buzzer in the Main is damaged	Change Main Board	
Press button K16 (optional)	 L16 OFF in UI panel + Image: Image: Ima				



Finish condition: NO BU, NO drag	LED INDICATION
drawer, Door open, No Water	All Leds OFF (in case that also optional was done)

Legenda

Text	Group	Description
Press button Bx	Sequence of actions by user	Press the button Bx. Valid in all models
Press button Bx (only X&Y)	Sequence of actions by user	Press the button Bx. Valid only in the model X & Y
Press button Bx (optional)	Sequence of actions by user	Press the button Bx. Not requested but if the operator will do it the machine will react in the descripted way.
Lx (y) ON	Reaction of the appliance	The led Lx switches On with the color y. Color code: y=W -> color White y=R -> color Red y=B -> color Blu y=Y -> color Yellow y=M -> color Magenta y=G -> color Green
Lx OFF	Reaction of the appliance	The led Lx switches Off.
Lx (!y) ON	Reaction of the appliance	The led Lx switches On with a different color from the expected y. FAILURE MODE.

Level 2 (Loads and Sensors)



Sequence of		Reaction of the appl	iance	
actions by user	PASS	FAIL	Cause of failure	Solution
		Water	Water level sensor damaged (short circuit)	Change Water level sensor
		BoxT6 Green in Display	Connector JP14 in Main damaged (short circuit)	Change Main board
	BoxT5 Red in Display		uP U2 in Main damaged (short circuit in Pin9)	Change Main board
Check the start	BoxT6 Red in Display		L25 damaged	Change UI boad
condition	Test Keys and Leds	Micro Door YES BoxT5 Green in Display	The Microswitch is not well placed	Check assembly of microswitch
			Microswitch damaged (short circuit)	Change microswitch
			Connector JP3 in Main damaged (schort circuit)	Change Main board
			uP U2 in Main damaged (short circuit in Pin26)	Change Main board
Insert BrewUnit & Close Door (No Dump Box)	No changes	Micro Door YES BoxT5 Green in Display	Assembly issue of the microswitch or mechanical lever.	Check icroswitch position and mechanical lever.
Insert a full water tank	Lx OFF in UI panel +	Water NO	Water level sensor not in position	Change the position of Water level sensor
		BoxT6 remain Red in Display	Water level sensor damaged (open circuit)	Change Water level sensor



Sequence of		Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution		
	BoxT5 Red in Display + BoxT6 Green in Display Tost Kove and Lode		Wiring of the water level sensor not connected	Check the wiring		
Insert a full water tank	SICAM		uP U2 in Main damaged (open circuit in Pin9)	Change Main Boad		
	Lx OFF in UI panel +		The Microswitch is not well placed Microswitch damaged (open circuit)	Check assembly of microswitch Change microswitch		
	 BoxT5 Green in Display + 		Wiring of the microswicth not connected	Check the wiring		
Insert Dreg drawer and rip tray	BoxT6 Green in Display Test Keys and Leds	No BoxT5 remain Red in	Wiring of the microswicth damaged (open)	Change the wiring		
tray	UP DOWN STEAM OUT SESET ERROR GRINDER Micro Door Water UG BoxT5 in Display change	Display	uP U2 in Main damaged (open circuit in Pin26)	Change Main boad		

Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution	
Brew Unit (Test	valid only if the Brew Unit is inser	ted)		•	
	• L1 White ON in UI panel +		Wiring of the BU motor not connected	Check the wiring	
	🗶 in the set of the set		Wiring of the BU motor damaged (open)	Change Main Board	
			Motor of BU damaged	Change the BU motor	
	BoxK1 White in Display + BoxT5 Green in Display +	BU not move	The drive of the motor in the Main is damaged	Change Main Board	
	BoxT6 Green in Display		BU blocked	Check the BU	
	Test Keys and Leds BU BU HEATER PUMP GRINDEREVI EV2 UP DOWN		Gears or motor not well assembled	Check the assembly of the gear and motor	
Press and release	STEAM BU Current Micro Work NO	BU move to Home	Wiring of BU motor are inverted	Check the Motor BU wiring	
K1 to move BU to work. N.B: * If the BU is	RESET RESET NO BROR GRNDEF Micro Door LOG PARAM Micro Door V BU Move to Work	BU Current 350 mA BoxT1 Red in Display	The absorbed current exceed the limit (xxxmA).	Check the assembly of the gear and motor, check the BU	
already moving to home	When BU has reached work position:		The BU Microswitch is not well placed	Check assembly of BU microswitch	
then stop the movement and change the	· L1 OFF in UI panel +		BU Microswitch damaged (open circuit)	Change BU microswitch	
direction into work. * If the BU is		Wiring of the BU	Check the wiring		
already moving to work then stop the movement.	BoxK1 OFF in Display + DevT2 Group in Display +	Micro Work	Wiring of the BU microswicth damaged (open)	Change the wiring	
	BoxT2 Green in Display + BoxT5 Green in Display + BoxT6 Green in Display Test Keys and Leds UP DOWN BU HATER PUMP GANAGERVI EV2 UP DOWN BU Current Keys Work STEAM BU Current Keys Work STEAM WESSEL RESET BISON GRINDLER Micro Door Wher VYES USED	BoxT2 Red in Display. L1 OFF & Work not reached and BU OFF.	uP U2 in Main damaged (open circuit in Pin26)	Change Main boad	



PASS Id only if the Brew Unit is inser L2 White ON in UI panel + BoxK2 White in Display + BoxT5 Green in Display + BoxT6 Green in Display Test Keys and Leds	FAIL ted) BU not move	Cause of failure Wiring of the BU motor not connected Wiring of the BU motor damaged (open) Motor of BU damaged The drive of the	Solution Check the wiring Change the motor BU wiring Change the BU Motor
L2 White ON in UI panel +		not connected Wiring of the BU motor damaged (open) Motor of BU damaged The drive of the	Change the motor BU wiring Change the BU
BoxK2 White in Display + BoxT5 Green in Display + BoxT6 Green in Display	BU not move	not connected Wiring of the BU motor damaged (open) Motor of BU damaged The drive of the	Change the motor BU wiring Change the BU
BoxT5 Green in Display + BoxT6 Green in Display Test Keys and Leds	BU not move	damaged (open) Motor of BU damaged The drive of the	Change the BU
BoxT5 Green in Display + BoxT6 Green in Display Test Keys and Leds	BU not move	The drive of the	-
BoxT5 Green in Display + BoxT6 Green in Display Test Keys and Leds	BU not move		e
the second se		motor in the Main is damaged	Change Main Board
the second se		BU blocked	Check the BU
J BU HEATER PUMP GRINDEREVI EV2 DOWN		Gears or motor not well assembled	Check the assembly of the gear and motor
EAM BU Current Micro Work NO UT Micro Home	BU move to Work BUCurrent 350 mA BoxT1 Red in Display	Wiring of BU motor are inverted	Check the Motor BU wiring
SET RESET BOR GRADER Micro Door YES YES BU Move to Home		The absorbed current exceed the limit (300mA).	Check the assembly of the gear and motor, check the BU
/hen BU has reached home osition:	Mcro Home NO BoxT4 Red in	The BU Microswitch is not well placed	Check assembly o BU microswitch
L2 OFF in UI panel +		BU Microswitch damaged (open circuit)	Change BU microswitch
		Wiring of the BU microswicth not connected	Check the wiring
BoxK2 OFF in Display + BoxT4 Green in Display + BoxT5 Green in Display +	Home not reached and BU OFF.	Wiring of the BU microswicth damaged (open)	Change the wiring
BoxT6 Green in Display		uP U2 in Main damaged (open circuit in Pin26)	Change Main boad
J BU HEATER PUMP GRINDEREVI EV2 DOWN			
EAM BU Current Micro Work			
	BoxK2 OFF in Display + BoxT4 Green in Display + BoxT5 Green in Display + BoxT6 Green in Display + BoxT6 Green in Display	BoxK2 OFF in Display + BoxT4 Green in Display + BoxT5 Green in Display + BoxT6 Green	L2 OFF in UI panel +

Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution	
EV1					
	• L6 White ON in UI panel +		Wiring of the EV1 not connected	Check the wiring	
			Wiring of the EV1 damaged (open)	Change Main Board	
			EV1 damaged	Change the EV1	
Press and release K6 to toggle the EV. If it was closed, then will be open.	BoxT6 Green in Display The "claudible audible audible remain		The drive of the EV1 in the Main is damaged	Change Main Board	
	 It's possible to hear the "click". L6 OFF in UI panel + 		EV1 damaged	Change the EV1	
Press and release K6 to toggle the EV. If it was open, then will be closed.	 BoxK6 OFF in Display + BoxT5 Green in Display + BoxT6 Green in Display Test Keys and Leds U	The "click" is no audible. The EV remain open	The drive of the motor in the Main is damaged	Change Main Board	



Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution	
EV2					
	• L7 White ON in UI panel +		Wiring of the EV2 not connected	Check the wiring	
			Wiring of the EV2 damaged (open)	Change Main Board	
			EV2 damaged	Change the EV2	
Press and release K7 to toggle the EV. If it was closed, then will be open.	 BoxK7 White in Display + BoxT5 Green in Display + BoxT6 Green in Display 	The "click" is no			
	Test Keys and Leds BU BU HEATER PUMP GRINDEREV1 EV2 UP DOWN EV2 EV2 EV2 STEAM EV2 EV2 EV2 OUT EV2 EV2 EV2 RESET RESET EV2 EV2 GRINDER Micro Door Water EV2		The drive of the EV2 in the Main is damaged	Change Main Board	
	It's possible to hear the "click".				
Press and release K7 to toggle the EV. If it was open, then will be closed.	 L7 OFF in UI panel + BoxK7 White in Display + Test Keys and Leds BoxK7 White in Display + 	The "click" is no audible. The EV remain open	EV2 damaged	Change the EV2	

	Reaction of the appl		
PASS	FAIL	Cause of failure	Solution
neter			
• L4 White ON in UI panel +	Test Keys and Leds	Wiring of the Flowmeter not connected Wiring of the	Check the wiring
	ACT BACK RCAT BCAC INCO BACK INCO BACK INCO INCO BACK INCO BACK INCO BACK INCO INCO INCO	Flowmeter damaged (open)	Change the wiring
BoxK4 White in Display +	BoxK4 OFF + BoxT3 Red.	Flowmeter damaged	Change the Flowmeter
BoxT5 Green in Display + BoxT6 Green in Display	It's possible to hear the pump but the flowmeter is not	Connector JP20 in Main damaged (short circuit)	Change Main Board
BU BU HEATER PUMP GRINDEREVI EV2 UP DOWN	able to detect the impules.	uP U2 in Main damaged (short circuit in Pin18)	Change Main Board
STEAM Impulses xxx	Test Keys and Leds	Wiring of the PUMP not connected	Change Main Board
PESET PESET BROR GRINDER Micro Door Vater LOG PARAM VES YES	UF DOW URBAN UF DOW UF DOWN	Wiring of the PUMP damaged (open)	Change the PUMP
. It's possible to bear the pump	INTERNAL CONCEPTION OF THE TAXABLE CONCEPTION OF TAXABLE CONCEPT	PUMP damaged	Change the PUMP
BoxT1 will count impulses	BoxK4 OFF + BoxT3 Red.It's NOT	The drive of the Pump in the Main is damaged	Change Main Board
d NTC			
• L3 White ON in UI panel +	Teet Keve and Lede	Wiring of the NTC not connected	Check the wiring
··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	I U KORVER DIGUT U	Wiring of the NTC damaged (open)	Change the wiring
	AUT ST. Com	NTC damaged (short)	Change the wiring
• BoxK3 White in Display + BoxT5 Green in Display +	BoxK3 OFF + BoxT3	Connector JP15 in Main damaged (short circuit)	Change Main Board
BoxT6 Green in Display Test Keys and Leds BU BU HEATER PUMP GRIDEREVI EV2 UP DOWN STEAM TEMPERATURE OUT RESET RESET BROOM WILL DOOR WATER THE THERMODE WATER THE THERMODE WATER THE THERMODE WATER THE THERMODE WATER THE THERMODE CUTRENT. Check the absorbed current. BoxT1 will show the	Red. The NTC is open Test Keys and Leds	uP U2 in Main damaged (short circuit in Pin24)	Change Main Board
	 BoxK4 White in Display + BoxT5 Green in Display + BoxT6 Green in Display Test Keys and Leds 1 and 1 a	 L4 White ON in UI panel + IsoxK4 White in Display + BoxT5 Green in Display + BoxT6 Green in Display BoxK4 OFF + BoxT3 Red. BoxK4 OFF + BoxT3 Red. BoxK4 OFF + BoxT3 Red. BoxK4 OFF + BoxT3 Red. It's possible to hear the pump. BoxT1 will count impulses SoxK4 OFF + BoxT3 BoxK4 OFF + BoxT3 BoxK3 OFF + BoxT3 Red. BoxT1 will show the 	 L4 White ON in UI panel + L4 White ON in UI panel + BoxK4 White in Display + BoxT5 Green in Display + BoxT6 Green in Display Test Keys and Leds BoxK4 OFF + BoxT3 Red. BoxK4 OFF + BoxT3 Red. BoxK4 OFF + BoxT3 Red. BoxT1 will count impulses BoxK4 OFF + BoxT3 Red. BoxK3 OFF + BoxT3 Red. DoxK3 OFF + BoxT3 Red. <l< td=""></l<>



Sequence of	Reaction of the appliance				
actions by user	PASS	FAIL	Cause of failure	Solution	
ThermoBlock an	d NTC			·	
Press and release K3 to toggle the ThermoBlock. Check the absorbed current < 0,5A. In this case we suppose that was ON, then will be OFF.	 L3 OFF in UI panel + Image: Constraint of the second second	The current is still present>0,5A.	The drive of the TB in the Main is damaged	Change Main Board	
Grinder		1		,	
	L5 White ON in UI panel +	Test Keys and Leds	Wiring of the Grinder not connected Wiring of the Grinder damaged (open)	Check the wiring Change the wiring	
		BoxK5 OFF + BoxT3 Red. The grinder in not	Grinder damaged	Change the Grinder	
Press and release K5 to toggle the	 BoxK5 White in Display + BoxT5 Green in Display + BoxT6 Green in Display 	moving.	Grinder blocked	Change the Grinder	
Grinder. If it was OFF, then will be ON and will move in clockwise direction.	Test Keys and Leds BU BU HEATER DUMP CRINDER BY1 BY2 UP DOWN Aroma1 Aroma2 XXX STEAM Aroma1 Aroma3 XXX OUT Aroma3 XXX Image: CRINDER BY1 EV2 RESET RESET RESET Micro Door Water Image: CRINDER BY1 Image: CRINDER BY1 LOG PARAM Micro Door Water Image: CRINDER BY1 EV2 The Grinder is ON. The Grinder is ON. Image: CRINDER BY1 Image: C	Test Keys and Leds Image: Second se	The drive of the Grinder in the Main is damaged	Change Main Board	
	Check the rotation	The rotation direction is wrong: anticlockwise	Wirings of Grinder are inverted	Check the Grinder wiring	

Sequence of		Reaction of the appl	iance	
actions by user	PASS	FAIL	Cause of failure	Solution
Grinder				
Press and release K5 to toggle the Grinder. If it was ON, then will be OFF.	 L5 OFF in UI panel + BoxK5 OFF in Display + BoxT5 Green in Display + BoxT6 Green in Display + BoxT6 Green in Display Test Keys and Leds Bu Forte Puter Cancel VI FIZ Down Aromal Aroma2 XXX AxXX STEAM Aroma1 Aroma2 XXX ArXX STEAM Aroma1 Aroma2 XXX ArXX STEAM Aroma1 Aroma2 XXX ArXX Aroma1 Aroma2 XXX ArXX ArXX Aroma1 Aroma2 XXX ArXX Aroma1 Aroma2 XXX ArXX ArXX Aroma1 Aroma2 XXX ArXX Aroma1 Aroma2 XXX ArXX Aroma1 Aroma2 XXX ArXX ArXX Aroma1 Aroma2 XXX ArXX ArXX Aroma1 Aroma2 XXX ArXX ArXX ArXX Aroma1 Aroma2 XXX ArXX ArXX ArXX ArXX ArXX ArXX ArXX	The grinder is still rotating.	The drive of the Grinder in the Main is damaged	Change Main Board
Special function	s. Use it only if proper trained.			
Reset Error Log				
Keep release K12 for more than 3 sec. to toggle Reset the Error Log.	BoxK12 Green in Display + BoxK12 Green in Display + Loads and sensors Bu BU HEATER NUMP GRINDEREVI EV2 DOWN DOWN Aromal Aroma2 XXX DOWN Aroma3 XXX BOOR GRINDER Miceo Door Water NO N.B: The other BoxTx are not relevant			



Sequence of		Reaction of the appli	ance			
actions by user	PASS	FAIL	Cause of failure	Solution		
Reset Grinder P	rameters					
Keep release K13 for more than 3 sec. to toggle Reset the Grinder Parameters.	BoxK13 Green in Display + BoxK13 Green in Display + Loads and sensors By BU HEATER PUMP GRNDGERVI RV2 DOWN Aromal Aroma2 XXX Aroma3 XXX Aroma3 XXX Aroma3 XXX RSGT RSST RSST Micro Door Water SG PARAM Micro Door Water NO N.B: The other BoxTx are not relevant					

If the Dreg drawer is not inserted or the Service door is not closed the following loads cannot be tested:

1. BU

Functions/features explanation

Steam out

The Steam Out feature is available in the Test Mode.

The machine enters in Test Mode by pressing in sequence K15, K10, K11, K14 in the first two seconds after switching on the machine by mean of the main switch on the backside of the CA. There are 2 different levels, in each level the coffee-machine can execute different commands. The Steam Out command is available in the Level 2.



The user can switch the level by pressing the Button KO.

Legend:

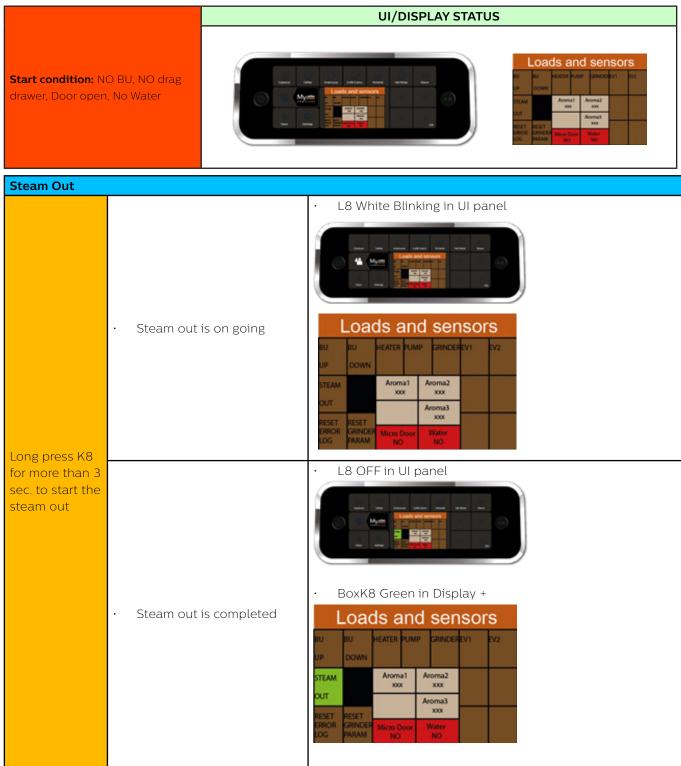
- (O) = Orange
- (B) = Blu
- (R) = Red
- (G) = Green
- (W) = White

TEST MODE Level1 🔻	
Pressing button Stand-By	Pressing button Stand
TEST MODE Level2	

At the start up all loads are turned off. The software allow to have multiple loads active at the same time.



Level 2 (Steam Out)



The following conditions are mandatory for the Steam Out procedure:

- 1. The Ntc sensor must work correctly; if there is a failure on NTC (Ntc disconnected or in short circuit) the operation cannot be performed (turn off the machine and repair before do Steam-out operation).
- 2. The DREGDRAWER must be in place and the DOOR must be closed; if someone is not in place the operation cannot be performed. To start again the operation insert drag drawer and close service door.

When the Steam-Out is complete the following parameters are reset to their default values:

Parameters	Default Value	Description	Memory map
All recipes book	See req.	All recipes book restored to the default.	Ν
		See 20191002_OmniaRecipes08	
Alarm_Refill	TRUE	Request priming circuit next power-on of the machine	Ν
Bu_Loaded	FALSE	Set Brew-unit clean and not fill with coffee	Ν
Initial_Rinsing	TRUE	At the start up the machine will perform the initial rinsing.	Ν
Temperature	Medium	The temperature in the setting will set to Medium	Ν
First use	TRUE	At the start up the machine will request the first installation	Ν
Brightness of the display	Medium	The Brightness of the display is set in to Medium	Ν
Unit	ml	The Unit is set to ml.	Ν
Profile Active	BLUE	The Profile active is set to BLUE	Ν
AquaClean reminder	5	The AquaClean reminder is restored.	Ν
Aroma Very Mild Time (ms)	5900	Grinding time for aroma 1 (ms)	Y
Aroma Mild/Medium Time (ms)	6500	Grinding time for aroma 2 (ms)	Y
Aroma Strong/ExtraStrong Time (ms)	7150	Grinding time for aroma 3 (ms)	Y
BU Unload Current Array [i]	150	Array of last 4 brew unit effort during rinsing cycle (in milliamperes). → Autozero for new autodose system. (i=14)	Y
Max Grinder Time (ms)	10000	Maximum time for the grinder	Y
Grinder Num Skip Adjust Dose	2		Y
Array BU Pointer	0	Pointer in the BU Unloaded current	Y
Coffee Grounds	12	Number of grounds in dregs drawer	Y
AquaClean Filter Autonomy (ml)	0	Autonomy of last Aqua clean filter activated	Y
AquaClean Filter Startup (ml)	10000	Counter of water for enable first Aqua Clean filter; if expire, the machine need a descaling action to activate a new filter.	Y
AquaClean Actual Filter	0	Number of Aqua clean filter active in aquaclean chain	Y



Parameters	Default Value	Description	Memory map
ErrorLog [i]	0	Array Error saved in machine reset (i=110)	Υ
Acoustic Tone	Yes	Buzzer activation	Υ
Language	ENGLISH	Languages selection	Υ
Standby Time (minutes)	30	Auto switch off after x minutes	Υ
Theater light	ON during brewing	Theater light	Y
Beverage counters	0*	All beverage counters	Υ
*Only in case the total num	per of beverages	is below 20. In the other cases the counters will r	emain untouched.

Coffee specifications

Drinks	Min. qty (ml)	Default qty (ml)	Max. qty (ml)		
Espresso	30	40	90		
Ristretto	20	30	60		
Coffee	100	120	220		
Caffe Crema	115	140	220		
Espresso Lungo	60	80	180		
Americano	40	40	40		
Cappuccino (Coffee + milk)	20 (100)	40 (120)	80 (210)		
Caffe latte (Coffee + milk)	30 (80)	60 (140)	90 (340)		
Cafe au lait (Coffee + milk)	50 (50)	90 (90)	150 (150)		
Late macchiato (Coffee + milk)	20 (80)	40 (200)	80 (340)		
Flat White	30 (40)	40 (80)	70 (180)		
Frothed milk	40	180	320		
Travel Mug	0	240	360		
Hot Water	100	150	300		

Descaling

Please use Philips descaler only. Under no circumstances should you use a descaler based on sulfuric acid, hydrochloric acid, sulfamic or acetic acid (vinegar) as this may damage the water circuit in your machine and not dissolve the limescale properly. Not using the Philips descaler will void your warranty. Failure to descale the appliance will also void your warranty.

When the machine needs descaling, a message appears on the display.

- 1. Touch the clean icon on the user interface and select 'Descaling' in the menu.
- 2. Follow the instructions on the screen.
- 3. If attached, remove LatteGo or the milk frother.
- 4. Remove the drip tray and the coffee grounds container, empty them and put them back into place.
- 5. Remove the water tank and empty it. Then remove the AquaClean water filter.
- 6. Pour the whole bottle of Philips descaler in the water tank and then fill it with water up to the Calc / Clean indication (Fig. 48). Then place it back into the machine.
- 7. Place a large container (1.5 l) under the coffee dispensing spout and the water spout.
- 8. Press the start/stop button to start the descaling procedure. The descaling procedure lasts approximately 30 minutes and consists of a descaling cycle and a rinsing cycle..
- 9. Wait until the machine stops dispensing water. Refill the water tank when the message appears on the display. The descaling procedure is finished when the machine stops dispensing water.
- 10. Install and activate a new AquaClean water filter in the water tank.
- 11. When the descaling procedure is finished, the AquaClean light flashes for a while to remind you to install a new AquaClean water filter.

Using the AquaClean filter reduces the need for descaling!

What to do if the descaling procedure is interrupted

You can exit the descaling procedure by pressing the on/off button on the control panel. If the descaling procedure is interrupted before it is completely finished, do the following:

- 1. Empty and rinse the water tank thoroughly.
- 2. Fill the water tank with fresh water up to the Calc / Clean level indication and switch the machine back on. The machine will heat up and perform an automatic rinsing cycle.
- 3. Before brewing any drinks, perform a manual rinsing cycle. To perform a manual rinsing cycle, first dispense half a water tank of hot water by repeatedly selecting the hot water function and then brew 2 cups of pre-ground coffee without adding ground coffee.

If the descaling procedure was not completed, the machine will require another descaling procedure as soon as possible.



Functions/features explanation

Temporary solutions

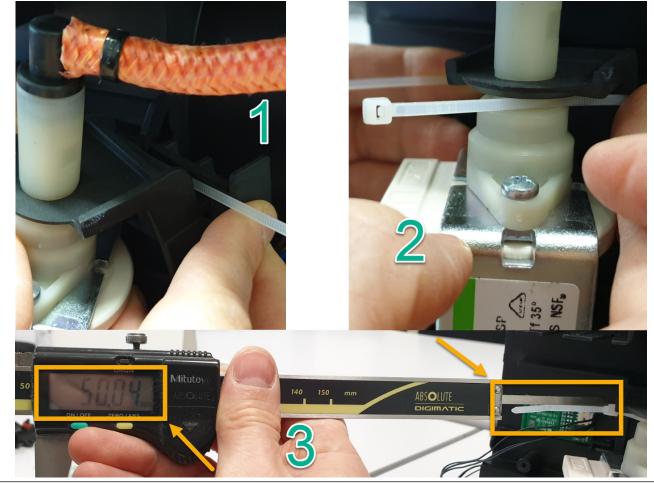
Cable tie for the pump

To make sure the pump won't move from its place. The pump will be assembled with a cable tie. In case a swap is needed, please follow these step to place it back:

1. Start inserting a cable tie (20cm x 1,2mm) in the empty space of the pump holder, then keeping both pull them inside:



- 2. In pictures 1 and 2 you can see the exactly position where to place the cable tie.
- 3. Don't close it too much: the leftover cable needs to be 5cm to guarantee the proper tightness (picture 3)



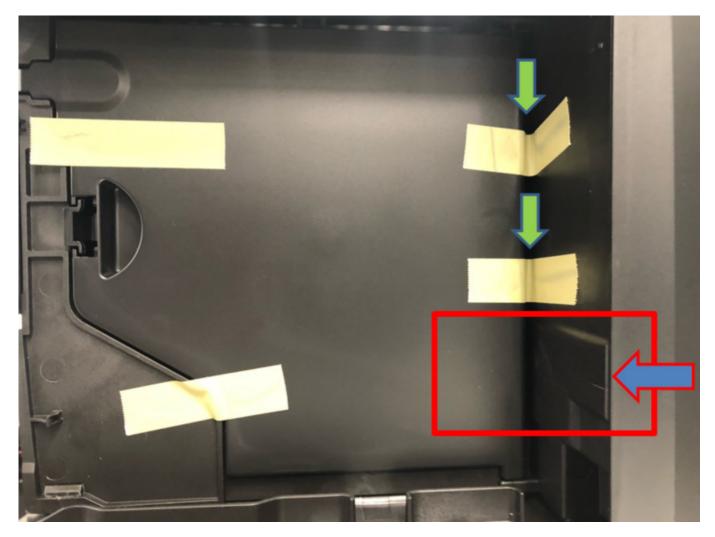
Functions/features explanation

Temporary solutions

Tape for service door

Before the shipment of the appliances, is required to apply 4 pcs of adhesive tape as shown in picture.

- 1. Do not cover the water sensor area (in red)
- 2. Do not leave any gap between the tape and the corner (green arrows)





Espresso Philips Service Center (EPSC)

EPSC is the Service tool to upload the software on the machine and run the diagnostic mode. It can be downloaded from the following link: **https://www.epsc.philips.com/ServiceCenterPortal/** The application can be used only in combination with the Saeco Programming Device: Cod. **996530009845 "KIT PROGRAMMER SERKIT SSC2"**.

A new cable **421946047151 "WIRING SERPROG OMN PROGRAMMER ASSY."** is required.

They can be ordered as spare parts.

All details related to the registration and operation are explained in the enclosed Quick start guide (QSG).

Espresso Philips Service Center– Quick Start Guide

Press the icon to view the document

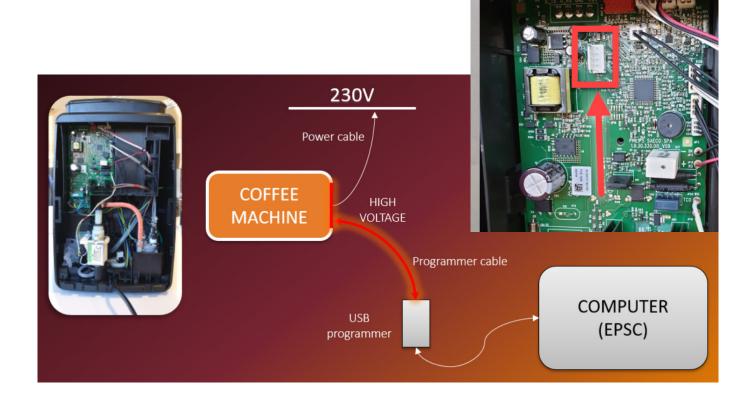
To open the attached document is necessary to save the service manual on your PC. The main Diagnostic Parameters description is available on the GDA_114331.



In order to connect the machine to the PC, we need to remove the back panel, which will expose the complete mainboard

REMEMBER: The board is working at 230V

Please take extra care before you start to open the machine or connect/disconnect the programmer cable, as till the USB programmer, high voltage is going through



Functions/features explanation

Repair Flow

Process stap	Saeco No.	Action		
Inkate	1	Visual inspection (transport damage) take care for pictures		
	2	Check Type/Serial number		
	3	Log all available accessory, counte check with info from consumer		
Diagnosis	4	Check product for consumer complaint and main function (NFF contact consumer)		
	5	Run Diagnostic to get error codes and relevant set statistics (EPSC) refer SDA_114585		
	6	Opening machine		
Repair	7	Repair the fault(s) encountered (view Symptom Cure)		
	8 Checking any modifications (view Symptom Cure, new software, etc.)			
		Refer Annex tabs per family (if available)		
	9 Basic Functional test while the application is open (linked to consumer complaint or what			
		detected)		
Coffee		Make e 2 cups at the same time. Are the volumes equal		
- Crema		Blow on the coffee. Does the crema come back together		
		Is the crema colour correct (Hazelnut)		
- Temperature		Is the coffee temperature within spec refer SDA_97832		
Steam		Does the steam work		
How Water	1	Does the hot water work		
Milk		(if applicable)		
- Cappuccino		Does the cappuccinatore produce good froth		
	10	check water circuit for any leakage, such as Oetiker clamps, boiler and valve connection and hoses		
	11	Check mechanism for good movement and unexpected noise		
	12	Assembly		
Inspection	13	Do cabinet parts fit well together		
- Visual	14	Check for damages		
- Power Check	15	Will the set switch on		
- Accessories	16	Do the accessories match with the intake		
- Consumer	17	Check the product for the consumer complaint		
complaint				
Quick Functional	18	Make 2 cups at the same time. Are the volumes equal		
test				
Coffee	19	Is the sound normal ?		
Leakage	20	Did the product leak during the testing		
Steam out	21	Steam out before shipping out, if temperature is below 0° to prevent any damaged due to frozen water.		
Steam out		No need for those families Minuto Family (all platform); Incanto Family New .; Pico Baristo ; Gran Baristo;		
		Intelia V2 ; Philips 2000 – 2100 ; Incanto Executive; Xelsis-New; Moltio Family (all Platform) Please also check		
		for GDA_113455		
Reset Error code	22	New devices like Xelsis-New have the possibility to reset the error code, once captured it need to be reset to		
		see if it appear afterwards again		
Claim	23	Provide precise IRIS code, according dedicated code table for Garment Care products. The location code		
Administration		from the part you have worked on MUST be completed always with the part reference from exploded view !		
		Primary fault and corresponding IRIS code should be claimed first.		
Cleaning	25	Clean water reservoir, bean reservoir, brew chamber and conveyor		
	26	Clean and dry brew unit, coffee bin and drip tray		
	27	External cleaning (housing surface)		

Functions/features explanation

Process stap	Saeco No.	Action
Safety check	28	Earth leakage, Isolation test, resistor of earth wire grounding, as requested in certain country's (VDE, ISO) or
		H-POT TEST
Visual	29	Check the mains cord for damages
Packing	30	Packing
	31	Check completeness (accessories) according income log refer #3
	32	Neatly pack the product
Documentation	33	Info for Consumer by packed ? e.g. service brochure, FAQ, NFF letter, s/c etc
	34	Descaling instruction with changed procedure (S/C) if available
Repair report	35	Is there an answer to ALL consumer questions/complaints (see complaint)
	36	add set statistic and give, if needed clear instruction towards consumer
	37	Is it indicated which documents are added
	38	Are there tips how to prevent issues

Error Codes

CODE	Description	Notes
01	Grinder fail (grinder blocked)	
02	Grinder fail (grinder turns not detected)	
03	Bu movement toward WORK fail	
04	Bu movement toward HOME fail	
05	Water circuit fail	
10	NTC short circuit fail	
11	NTC open circuit fail	
14	Heater over-temperature fail	
15	Heater time-out fail	
19	Zero-Crossing fail	

The error codes stored by the machine can be accessed via the USCP CONFIG MODE.

The information related to the error codes are available in the ErrorLog made up of 10 records.

The error codes are stored according to a FIFO concept.

The last error will be always at the first position ErrorLog1. And the older ones will be shifted down every time a new error code is added in the first position.

Position	Time0	Time1	Time3	Time4	 TimeN	TimeN+1
ErrorLog 1	0	А	G	R	С	Z
ErrorLog 2	0	0	А	G	В	С
ErrorLog 3	0	0	0	А	R	В
ErrorLog 4	0	0	0	0	G	R
ErrorLog 5	0	0	0	0	Н	G
ErrorLog 6	0	0	0	0	I	Н
ErrorLog 7	0	0	0	0	0	
ErrorLog 8	0	0	0	0	R	0
ErrorLog 9	0	0	0	0	G	R
ErrorLog 10	0	0	0	0	А	G

Version history

20/07 Version 1.0 : EP4300-5400 series Initial release.





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