

GAGGIA® Pera



SERVICE MANUAL

Revision 00

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1.1 Documentation required

The following documentation is needed for repair procedures:

- Instruction booklet for specific model
- Technical documentation for specific model (diagrams, exploded drawings)

1.2 Tools and equipment required

As well as the standard equipment, the following is required:

Qty.	Description	Notes
1	Screwdriver	Torx T 10
1	Pliers for Oetiker clamps	
1	CC -A - Vdc tester	
1	Digital thermometer	Scale limit > 150°C
1	SSC (Saeco Service Center)	Programmer

1.3 Material

Description	Notes
Thermal paste	Heating element > 200°C
Descaler	Saeco Entkalker
Grease solvent	Personal preference
Silicone grease	Safe to use with food

1.4 Safety warnings

We recommend you consult the technical manual of the machine before performing any maintenance work.

Observe all applicable standards relating to the repair of electrical appliances.

Always disconnect the power plug from the mains before beginning repair work. Simply turning off the main machine power switch is not an adequate safety precaution.

This domestic appliance is rated as insulation class I.

On completion of the repair work, insulation and dielectric rigidity tests must be performed.



1.5. Brera range

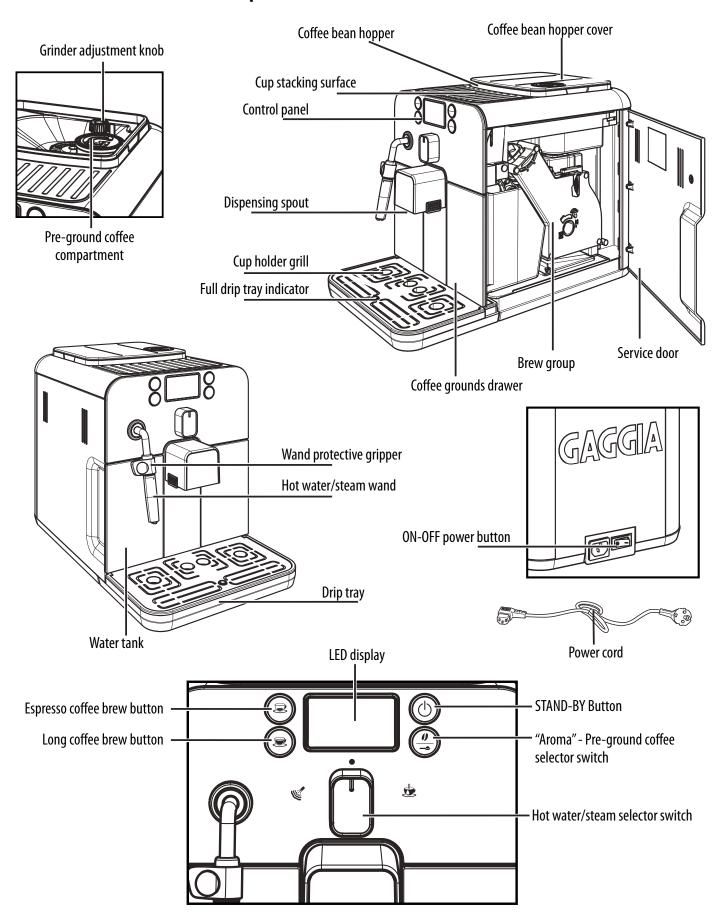




Led interface	X
Painted details	Х
Water/steam valve	X
Alarm LED	X
Automatic rinse	Х
Automatic dosage	X
Pannarello (frother)	X
Dispensed coffee memory capacity	X
Automatic shutdown (after 60' inactivity)	х

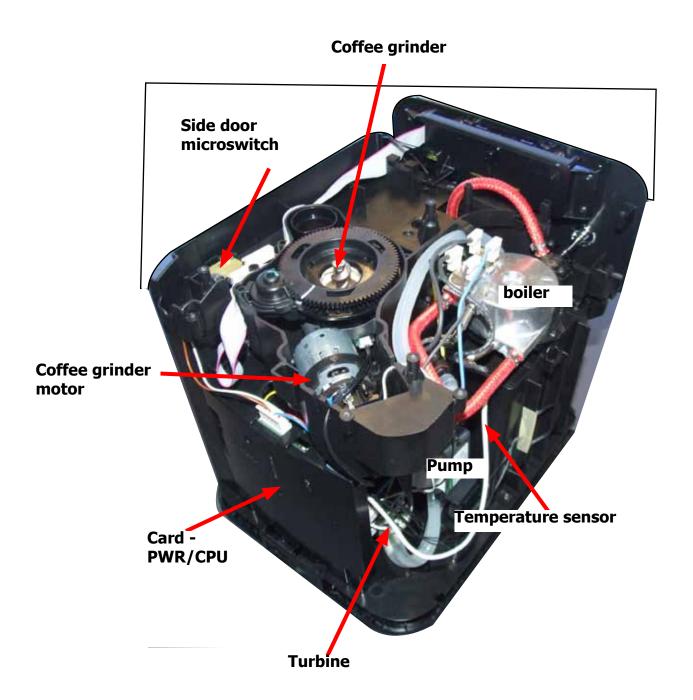


1.6.1 External machine parts





1.6.2 Internal machine parts



CHAPTER 2 TECHNICAL SPECIFICATIONS





2.1. Technical specifications

Power supply and output:	240 V~ 50 Hz 1400 W - 230 V~ 50/60 Hz 1400 W - 120 V~ 60 Hz 1500 W - 100 V~ 50/60 Hz 1300 W
Temperature monitoring:	Variable heating element sensor (NTC) - transmits the value to the electronic card
Safety system:	2 manual reset or one-shot thermostats (175°C)
Coffee heat exchanger output:	(230/120 V~) 1300 W - (100 V~) 1100W
Stainless steel	for coffee, hot water and steam dispensing
Gearmotor:	33VC with 2 rotation directions; power supply 24VC
Pump:	Ulka with reciprocating piston and 120°C cutout 48 W, 230V, 50 Hz, Type EP5 approx. 13-15 bar 120V, 60Hz 100V, 50/60 Hz
Overpressure valve:	Opens at approx. 16-18 bar
Overpressure valve: Water filter:	Opens at approx. 16-18 bar In tank
•	
Water filter:	In tank
Water filter: Coffee grinder:	In tank Direct current motor with flat ceramic grinder blades
Water filter: Coffee grinder: Hot water/steam valve Automatic dosage Power consumption:	In tank Direct current motor with flat ceramic grinder blades Presblock
Water filter: Coffee grinder: Hot water/steam valve Automatic dosage	In tank Direct current motor with flat ceramic grinder blades Presblock Dose adjustment controlled by the electronic system
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Water filter: Coffee grinder: Hot water/steam valve Automatic dosage Power consumption: Dimensions: W x H x D in mm:	In tank Direct current motor with flat ceramic grinder blades Presblock Dose adjustment controlled by the electronic system During the heating phase - approx. 5,6 A 256x315x410
Water filter: Coffee grinder: Hot water/steam valve Automatic dosage Power consumption: Dimensions: W x H x D in mm: Weight:	In tank Direct current motor with flat ceramic grinder blades Presblock Dose adjustment controlled by the electronic system During the heating phase - approx. 5,6 A 256x315x410 9 kg
Water filter: Coffee grinder: Hot water/steam valve Automatic dosage Power consumption: Dimensions: W x H x D in mm: Weight: Water tank capacity:	In tank Direct current motor with flat ceramic grinder blades Presblock Dose adjustment controlled by the electronic system During the heating phase - approx. 5,6 A 256x315x410 9 kg 11.
Water filter: Coffee grinder: Hot water/steam valve Automatic dosage Power consumption: Dimensions: W x H x D in mm: Weight: Water tank capacity: Coffee bean hopper capacity Dreg drawer capacity Heat exchanger capacity:	In tank Direct current motor with flat ceramic grinder blades Presblock Dose adjustment controlled by the electronic system During the heating phase - approx. 5,6 A 256x315x410 9 kg 1l. 200 gr. coffee beans 8 Approx. 10 cc
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Water filter: Coffee grinder: Hot water/steam valve Automatic dosage Power consumption: Dimensions: W x H x D in mm: Weight: Water tank capacity: Coffee bean hopper capacity Dreg drawer capacity Heat exchanger capacity: Water circuit filling time:	In tank Direct current motor with flat ceramic grinder blades Presblock Dose adjustment controlled by the electronic system During the heating phase - approx. 5,6 A 256x315x410 9 kg 11. 200 gr. coffee beans 8 Approx. 10 cc Approx. 15 seconds for first filling cycle

2.2. Machine parameters and performance

AMOUNT OF PRODUCT	Minimum amount (Puls.)	Default amount (Puls.)	Maximum amount (Puls.)	Programm. by the user	Programm. by Production/Service department
Espresso	70	165	600	Yes	No
Medium coffee	No	No	No	No	No
Long coffee	70	440	600	Yes	No
Pre-ground	Yes				
Hot water	Continues until the water supply has been exhausted (capacitive sensor)				
Steam pannarello (frother)	Continues until the water supply has been exhausted (capacitive sensor)				

GAGGIA ZYEVA		02 TECHNICAL SPECIFICATIONS		
RINSE	Initial rinse		Final rinse	
When performed	When the machine is switched on and the boiler temperature is ≤ 50°C		When the machine is switched off electronically, manually or automatically after 60', after having dispensed at least one coffee, before switching off	
No. of pulses	180)	80	
Stopping option	Yes, by pressing any key		Yes, by pressing any key	
User disable option	No		No	
Disabling by Production/Service department	No		No	
No. of pulses user adjustment option	No		No	
No. of pulses adjustable by Production/Service department	No		No	
Pulse range (Min Max.)	No		No	

WATER HARDNESS

CANNOT BE SET

DREG DRAWER	Description and values
Time-out for dreg drawer	5 sec.
Empty dreg drawer alarm after	8 lots of dregs
(double coffee is the last product dispensed)	(9 lots of dregs)
Warning to empty dreg drawer after	No
Reset dreg counter	Every time the dreg drawer is removed for at least 5 seconds, even if the "empty dregs" alarm has not been activated

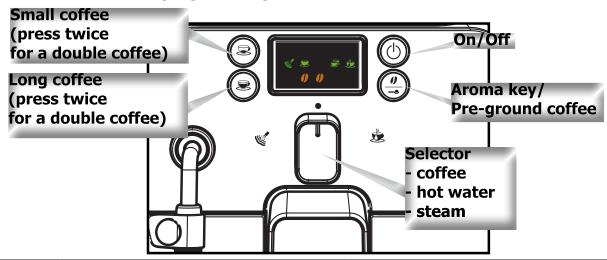
POWER/OFF	Description and values
Inlet time (min max.)	60 minutes
Inlet time (default)	No
Inlet time prog. by the user	No
Inlet time prog. by Production / Service departments	No

WATER TANK	Description
Level sensor	Yes
Water reserve (pulses) with water filter	200
Water reserve (pulses) with no water filter	200
Water reserve modifiable by Production/Service departments	No
"Fill tank" alarm	Yes
"No tray" alarm	No
Water mains	No

CHAPTER 3 BRIEF INSTRUCTIONS



3.1. Customer and programming menu



Indications	Causes	Solutions
U U Steady on	Machine at correct temperature - for coffee bean dispensing - for hot water dispensing	Proceed with the dispensing process
Steady on	Machine at correct temperature - for ground coffee dispensing (pre-ground)	Proceed with the dispensing process
Steady on	Machine dispensing steam	Proceed with steam dispensing
Steady on	Machine dispensing hot water	Proceed with hot water dispensing
Steady on	Machine dispensing a coffee	Wait for the dispensing process to end (dispensing stops when you press the key again)
Steady on	Machine dispensing two coffees	Wait for the dispensing process to end (dispensing stops when you press the key again)
Blinking	The machine is being programmed with the coffee cup fill level	Stop dispensing as desired
Blinking	Machine in pre-heating phase for coffee, hot water and steam dispensing	Wait until heated (see bar)

Indications	Causes	Solutions	
Cyclic blinking	Machine in rinsing phase - wait for the machine to complete the procedure	Wait until end of procedure	
₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	The appliance requires a descaling cycle	Perform the descaling cycle To enter the descaling cycle press the aroma/pre-ground coffee key for 5 sec.	
Steady on	No coffee beans inside hopper	After filling the coffee bean hopper, start the cycle again	
Steady on	No water	Fill the water tank	
Blinking	Service door open: Close it If the service door is opened while product is being dispensed, the appliance stops dispensing and starts a 30 sec. countdown before cancelling the dispensing process. The countdown can be stopped by closing the service door and operation will resume from its stopping point.		
Blinking	Turn the hot water/steam valve knob to the correct position. If the knob is turned (open) while product is being dispensed, the appliance stops dispensing and starts a 30 sec. countdown before cancelling the dispensing process. The countdown can be stopped by closing the knob and operation will resume from its stopping point.		
Blinking	No brew group If the brew group is removed while product is being dispensed, the appliance stops dispensing and starts a 30 sec. countdown before cancelling the dispensing process. The countdown can be stopped by re-inserting the brew group and closing the service door; operation will resume from its stopping point.		
Steady on	Refill circuit	Turn the knob to the cup	
Steady on	Empty the dreg drawer	To reset the dreg counter, wait for the icon to flash (5 sec.)	
Blinking	Insert dreg drawer	When the dreg counter is reset, the icon flashes	

3.2. Operation, cleaning and maintenance

	Operating the machine				
1	Fill water tank				
2	Fill the coffee bean hop-				
	per				
3	Switch on the appliance				
4	Fill the circuit	Place a container under the steam wand and turn the selector to the " " symbol			
		and wait for the appliance to return to coffee ready status.			
5	Press the coffee key	Press once for one coffee; twice for two coffees			

	CLEANING AND TECHNICAL SERVICING				
Α	Empty the dreg drawer	When indicated or every three (3) months which- ever occurs first			
В	Empty the drip tray	As necessary			
С	Clean the water tank	Weekly			
D	Clean the coffee bean hopper	As necessary			
Е	Clean the casing	As necessary			
	Clean the brew group	Every time the coffee bean hopper is filled or weekly			
F	Lubricate the brew group	Once a month or every 500 dispensing procedures			
	Clean the group housing	Weekly			
Н	Descaling	When indicated or every three (3) months, whichever occurs first			

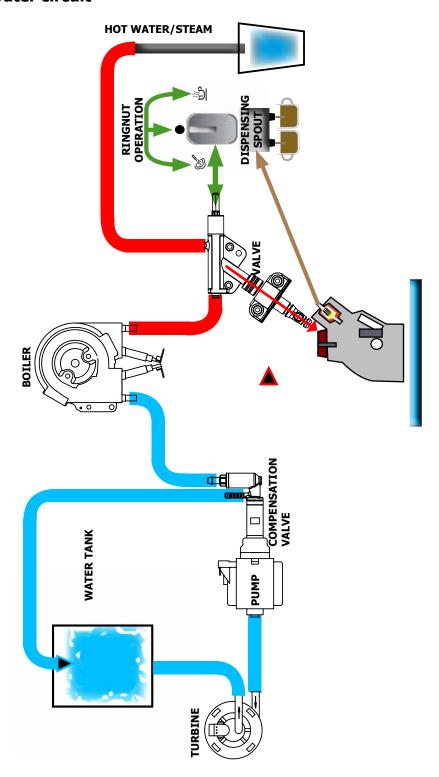
	Descaling cycle frequency					
Hard- ness	Water hardness	Without water filter	With water filter			
1	Soft water (up to 7°dH)	Approx. every 3 months / 120 litres	Approx. every 6 months / 240 litres			
2	Medium water (7° - 14°dH)	Approx. every 2 months / 90 litres	Approx. every 4 months / 180 litres			
3	Hard water (15° - 21°dH)	Approx. every 6 weeks or 60 litres	Approx. every 3 months / 120 litres			
4	Very hard water (over 21°dH)	Approx. every 4 weeks or 30 litres	Approx. every 6 weeks or 60 litres			

CHAPTER 4

OPERATING LOGIC

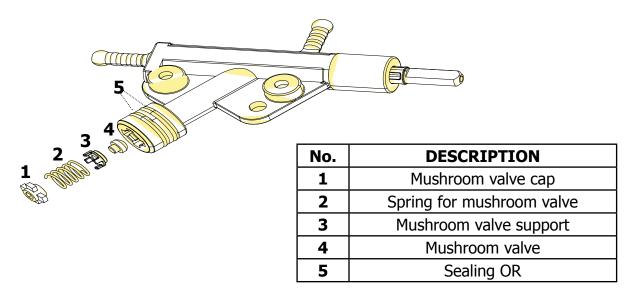


4.1. Water circuit



- Traditional water system
- Turbine Amount of coffee dispensed into the cup
- Reciprocating piston type pump (13 15 bar)
- Compensation valve (opening pressure 16 18 bar)
- Boiler 1400 W
- Presblok valve select coffee hot water steam

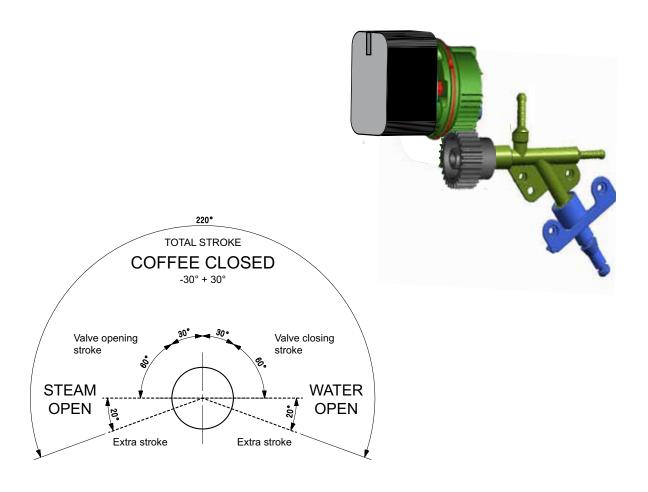
4.2. Control ringnut and valve



When dispensing coffee the mushroom valve opens at 4 bar +/- 0.5

Manual opening when dispensing water

Manual opening when dispensing steam



4.3. Coffee cycle operating diagram

Main switch ON		START	STOP
Time			
Coffee grinder			Pulses (Dosage)
Heating	approx. 45 sec.		
Pump			Pump activity (turbine pulses) depending on the product quantity selected
Gearmotor Brew group	↓ <mark>↑</mark>		<u>↑</u>
Status	Heating	Ready	Coffee cycle

Notes: * Only with Prebrewing



Single microswitch gearmotor

Switching on

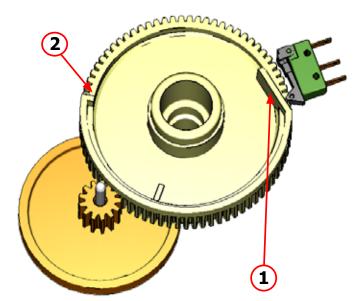
When the machine is switched on, the gearmotor repositions itself as follows:

- It acts on microswitch 1 (see following section)
- The gearmotor changes its rotation direction and moves upwards again by approx. 1-2 mm
- The boiler begins to heat water for approx. 45 seconds. It absorbs all the available heating power in order to reach the optimal temperature. The temperature will then remain at a constant level.

Coffee cycle

- 1. The coffee grinder starts the grinding process (controlled by pulses generated by a sensor)
- 2. The gearmotor (brew group) moves to the dispensing position
- 3. Preliminary dispensing phase (short pump activity, short pause)
- 4. Product dispensing (the pump operation period is defined by the amount of product dispensed)
- 5. The gearmotor moves to its home position (the dregs are expelled automatically).

4.4. Single microswitch



The gearmotor is powered by a direct current motor that engages with the smaller double toothed wheel using a worm screw. The brewing 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.

- Standby position: 1

- Dispensing position: 2

4.5. Temperature sensor (adjustment)

Temperature sensor

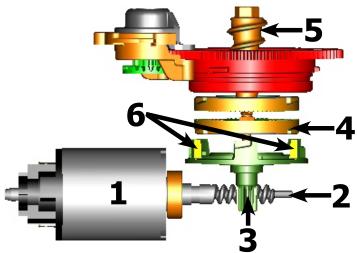
An NTC is used as a temperature sensor; in the event of overheating this reduces boiler element power consumption.

The electronic system detects the current boiler temperature from the drop in voltage of the sensor and adjusts it accordingly.

Heating element values: see table

Tomm (96)	D ==== (I=O)	AD (/ 0/)
Temp. (°C)	R nom (kΩ)	ΔR (+/- %)
20	61,465	8,6
50	17,599	5,9
75	7,214	4,1
80	6,121	3,7
85	5,213	3,4
90	4,459	3,1
100	3,3	2,5
125	1,653	3,9
150	0,893	5,1

4.6. Coffee grinder operation



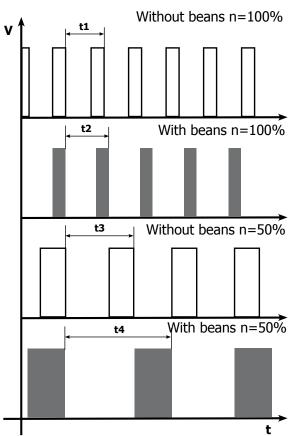
Ceramic coffee grinder

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).

There are two magnets (6) in the gear wheel; at every rotation these induce two pulses to a Hall sensor, which in turn transmits them to the electronic system.

4.7. Low bean level detection, dose quantity adjustment, coffee grinder blocked



No coffee

A low coffee bean level is detected by the Hall sensor, after variations in the pulse frequency (with or without coffee). If there are no coffee beans (operation while empty), the number of rotations - and therefore the number of pulses - will be greater

t1 = no coffee indication

If, however, there are coffee beans, the number of rotations will be lower due to the force created by the grinding **t2 = no indication**

t3 and t4 = this measurement is taken at the end of each grinding cycle

Dose quantity adjustment

The dose quantity is adjusted in accordance with the pulses detected (number of rotations proportional to the weak/medium/strong aroma setting)

Coffee grinder blockage

If the coffee grinder becomes blocked for any reason, pulses will no longer be transmitted to the electronic system and the grinder will come to a stop

4.8 Dose self-learning

With an algorithm based on three pieces of information (listed below) detected by the machine computer, the average dose is adjusted automatically (SELF-LEARNING).

- **1.** Number of coffee grinder pulses taking place during the grinding cycle
- **2.** Max. average value of the power consumed by the gearmotor during the cycle for coffee brewing
- **3.** Aroma selected by the user

The algorithm compares the maximum average value of the power consumed by the unit with the value listed in the table for the selected aroma, in order to calculate the new grinding pulse value for the next coffee produced.

If the value of the current absorbed by the gearmotor is lower than the value of the minimum current, the grinding pulses will be increased by 2.

If the value of the power consumed by the gearmotor is greater than the value of the maximum current, the grinding pulses will be decreased by 4.

If the "pre-ground" aroma is selected by the user, no modification will be made.

Min. current (mA)	Max. current (mA)	Aroma (pulses)
200	300	Mild (- 10% of the average value)
301	450	Average (nominal)
451	600	Strong (+ 10% of the average value)
_	ı	pre-ground

If the gearmotor power consumption value falls within the "overwork" interval, the grinding pulses will be decreased by 10 and the product will be dispensed.

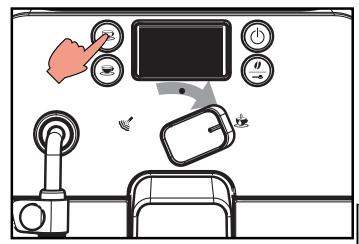
If the gearmotor power consumption value falls within the "expulsion" interval, the grinding pulses will be decreased by 10 and the pad will be dispensed.

Min. current (mA)	Max. current (mA)	Aroma (pulses)
800	1000	Overwork
1001		Pad expulsion

CHAPTER 5 SERVICE MODE

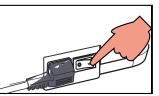


5.1. Test mode



To enter Test Mode

- 1. place the control knob in the water position
- 2. keep the espresso coffee key pressed
- 3. switch the appliance on from the 0/I button located at the rear of it; the icons scroll through in sequence
- 4. release the espresso coffee key





Operational check - keys				
PRESS	No key			
SETTINGS	Steady on	Steady on	Steady on	Steady on
PRESS THE ON/OFF KEY TO ACCESS THE NEXT LEVEL UP				

Operational check - microswitches and sensors					
PRESS	Control knob in water pos.	Control knob in coffee pos.	Control knob in steam pos.	No water	
SETTINGS	Steady on	Steady on	Steady on	Steady on	
PRESS	RHS service door open	No dreg drawer	No unit		
SETTINGS	Steady on	△ ♦ ½ ½ ½ Steady on	₩ # # # # # # # # # # # # # # # # # # #		
PRESS THE ON/OFF KEY TO ACCESS THE NEXT LEVEL UP					

Brew group operational check				
PRESS			NOTES	
SETTINGS	Steady on	Steady on	Illumination of icon When absorption is greater than 300	
FUNCTION	Group in work position (up) when the limit is reached, illumination of In the event of a malfunction, illumination of	Group in standby position (down)when the limit is reached, illumination of In the event of a malfunction, illumination of	mA with the group inserted and 200 mA with the group not inserted. When the group limit microswitches are not activated in both standby and work positions	
PRESS THE ON/OFF KEY TO ACCESS THE NEXT LEVEL UP				

Operational check - pump				
PRESS			NOTES	
SETTINGS	Steady on		If the control knob is set to hot water or steam and the key pressed, water is dispensed from the steam wand	
FUNCTION	Pump operation (the turbine monitors the water flow and the icon begins to flash)		Return to the previous level, set the brew group to its work position (up), return to this level, set the control knob to coffee and press the button; water will be dispensed from the dispensing spout	
PRESS THE ON/OFF KEY TO ACCESS THE NEXT LEVEL UP				

Coffee grinder and boiler operational check					
PRESS		9	NOTES		
SETTINGS	Steady on	Steady on	Boiler: Connect the machine (closed) on a counter with ammeter and check its absorption level; if using an ammeter		
FUNCTION	Boiler operation. Increase absorption	Coffee grinder operation. The icon flashes to confirm sensor operation	with needles, open the machine and connect the device to the boiler heating element		

CHAPTER 6 SERVICING AND MAINTENANCE

6.1. Repair schedule

	Action
1	Visual inspection (transport damage)
2	Machine data check (rating plate)
3	Operational check / problem analysis
4	Opening machine
5	Visual inspection
6	Operational tests
7	Repairing the faults encountered
8	Checking any modifications (view info, new sw, etc.)
9	Service activities in accordance with the operating schedule
10	Internal cleaning
11	Operational test while the appliance is open
12	Assembly
13	Final inspection test
14	Draining the circuit (in winter)
15	External cleaning
16	Lubricating the brew group with suitable grease
17	Insulation test HG 701 (dielectric)
18	Documentation

6.2. Service schedule

S R	Replacement	P	Cleaning
ES V	/isual inspection	TR	Noise test
D D	Descaling	R	Adjustment

Component	Action	Support/tool	
Water filter	P/S		
Water tank lip seal	S		
Boiler pin O-ring	S		
Brew group	ES/P	Grease solvent / Grease	
Hoses, attachments and Oetiker clamps	ES		
Pump	ES/TR		
Gearmotor	ES/TR		
Coffee grinder	P/R Vacuum cleaner / brush		
Water circuit	D	Saeco descaler	
Hot water/steam valve	ES/S		

6.3. Final test

Test	Procedure	Support/ tool	Standard	Tolerance
Espresso	2-3 Espressos for adjustment purposes	Measuring scoop	Same amount	15%
Coffee	2-3 Coffees for adjustment purposes	Measuring scoop	Same amount	15%
Noise			Standard	
Amount of cream	Blow into the cup until the cream separates		The cream should come together again to form a complete layer	
Cream colour			Hazel brown	
Temperature	Reading taken while dispensing	Thermometer	84 °C	± 4 °C
Grinding level	Check the grain size of the ground coffee			
Hot water	Dispense water			
Steam	Dispense steam			
Dreg drawer missing indication	Remove the dreg drawer		Dreg drawer missing indication	
Missing indication coffee beans	Start brewing a coffee while the coffee bean hopper is empty		Missing indication coffee beans	

CHAPTER 7 DISASSEMBLY



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7.1. Outer elements disassembly





- **1)** Remove the dreg drawer, water tank, coffee bean hopper cover, drip tray, brew group, steam wand cap and pannarello (frother)
- **2)** Unscrew the screws shown and remove the finger protection device and coffee bean hopper





- **3**) Lift and remove the top cover
- **4**) Slide out the service door, lifting it upwards





5/6) Unscrew the screws shown and slide out the rear cover, side cover and coffee grinder sound insulating cover

7.2. Dispensing spout disassembly



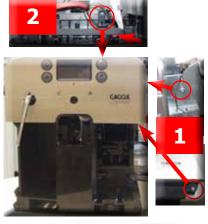






- **7)** Slide out the control knob cover, unscrew the screws shown and slide out the dispensing head cover
- **8)** Unscrew the screws shown and slide out the dispensing head fixed support
- **9)** Slide out the front panel support by lifting it
- **10)** Remove the fork

7.3. Keypad card and valve card disassembly





- 1) Unscrew the screws shown
- **2)** Release the stop device and the flat cable Slide out the front panel
- **3)** Disconnect the connector shown and unscrew the CPU card support screws shown







4 /5) Unscrew the screws shown





7) Slide out the keys, seal, light guide and LED glass







- 8) Unscrew the screws shown
- **9)** Slide out the top cover, knob support assembly, gear and card support



10) Release the card from the support

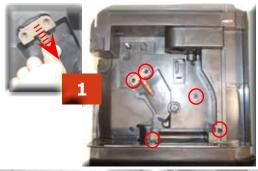
7.4. Power/CPU card disassembly



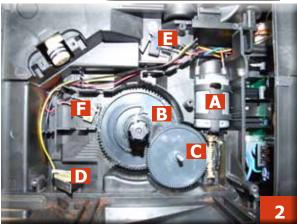


- **1)** Unscrew the screw shown and remove the card protection
- **2)** Slide out the card, removing all connections

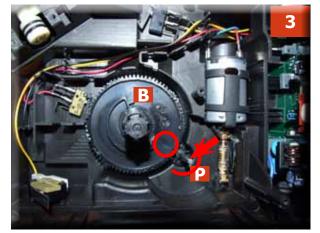
7.5. Gearmotor disassembly



1) Unscrew the screws holding the boiler pin in place, remove them and unscrew the other screws shown



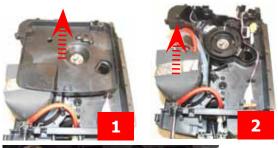
- **2)** The following are located inside the compartment protected by the casing:
- Brew drive (A) with gears (B) and (C) for transmission and timing of the dispensing head.
- Dreg drawer present microswitch (D)
- Dispensing head present microswitch (E)
- Microswitch (F) intercepting both the standby phase of the dispensing head and the dispensing phase
- Slide out the gear (C) that meshes with the brew drive
- Remove the large gear (B)
- Remove the brew drive (A), complete with transmission shaft
- **3)** Replace the gear (B), making sure that the imprint of the arrow is aligned with the opening containing the pin (P).



- H L 4
- **4)** When replacing the brew drive and the transmission shaft, make sure the bearings (L) are in the right position.

Grease the shaft thoroughly and evenly

7.6. Boiler disassembly



- 1) Remove the coffee grinder sound insulating cover
- 2) Remove the boiler insulation



3) Unscrew the screws shown.



4) Unscrew the screw and remove the plastic support.

Disconnect the hoses and the connections

7.7. Valve disassembly











- 1) Remove the boiler pin
- **2)** Remove the control knob cover and unscrew the screw as indicated
- **3)** Lift and remove the dispenser assembly, slide out the fork shown and unscrew the screws holding the front piece
- **4)** Unscrew the screws shown to remove the front piece support.
- **5)** Remove the spring washer and the control knob gear (steam/water)

GAGGIA 07 DISASSEMBLY

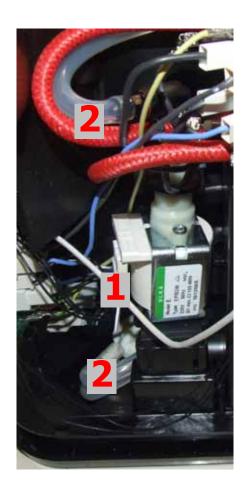




- **6)** Unscrew the screws shown to remove the insert on the base of the casing
- **7)** Unscrew the screws shown and disconnect the valve from the water connections.
- **7)** Unscrew the screws shown and disconnect the valve from the mesh hoses



7.8. Pump and turbine disassembly



PUMP

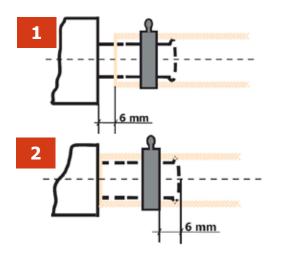
Remove the connection **1**, disconnect the silicone hoses **2**Unscrow the safety valve and remove the numb fr

Unscrew the safety valve and remove the pump from the two supports

TURBINE

Remove the connection and disconnect the silicone hoses

7.9. Disassembling and fitting OETIKER clamps



1) Boiler connection

2) Other connections



Replacing the hoses

1) Use a suitable pair of pliers to remove the clamp (as illustrated)



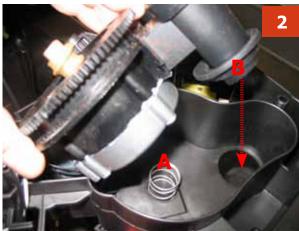
2) Tighten the clamp as illustrated

GAGGIA

7.10. Coffee grinder disassembly



1) To remove the coffee grinder, simply slide it out and remove its connections



2) When replacing it, make sure the spring (A) and the coffee pipe (B) are positioned correctly

7.11. Grinder adjustment / assembly and disassembly



1) To remove the upper grinder support, using a hex key push down and turn clockwise to release the grinder support from the bayonet coupling



2) To remove the grinder blade from the upper support, turn it anti-clockwise until it detaches from the bayonet coupling



3) To remove the lower grinder blade, keep the increment pin (A) locked in position and turn the grinder blade anti-clockwise, until it detaches from the bayonet coupling



4) When refitting the upper grinder support, make sure you reposition it so that the mark is as illustrated in the photo

CHAPTER 8 NOTES

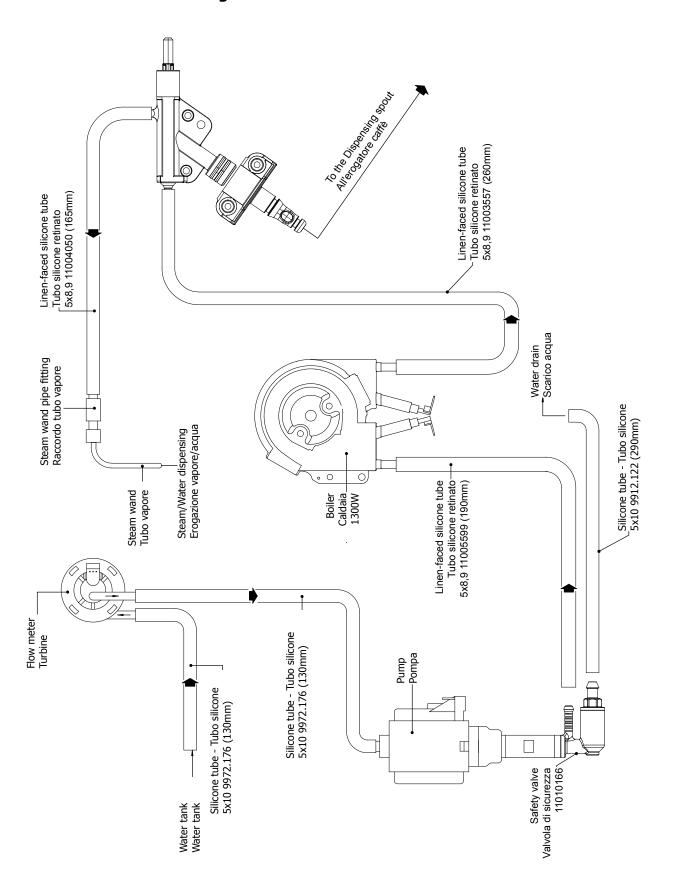


GAGGIA 08 NOTES

CHAPTER 9 WATER CIRCUIT DIAGRAM



9.1. Water circuit diagram



CHAPTER 10 ELECTRICAL DIAGRAM



10.1 Wiring diagram

