

MAINTENANCE MANUAL

Translation of original instructions



GENIUS



INDEX

1	INT	FRODUCTION	1.1
	1.1	SYMBOLS	1.1
	1.2	SAFETY SPECIFICATIONS	1.3
		1.2.1 HACCP module (Hazard Analysis	
		Critical Control Point)	
		1.2.2 Personal protective equipment (PPE) .	
	1.3	RESIDUAL RISKS	1.7
	1.4	TOOL SET NECESSARY FOR	
		MAINTENANCE	
	1.5	CONSUMABLES / ACCESSORIES	
		1.5.1 Accessories supplied	
		1.5.2 Parts recommended for maintenance .	1.11
2	MA	ACHINE DESCRIPTION	2.1
	2.1	5-LED TOUCHPAD	2.2
		2.1.1 Dispensing Mode	
		2.1.2 Programming Mode	
	2.2	OPTIONAL	
	2.3	ADDITIONAL UNITS	2.4
	2.4	MACHINE IDENTIFICATION	2.5
	2.5	TECHNICAL CHARACTERISTICS	2.6
		2.5.1 Overall dimensions	2.6
	2.6	TRANSPORT, STORAGE,	
		AND DISPOSAL	2.7
3	INS	STALLATION	3.1
3			
3	3.1	FIRST INSTALLATION AND START-UP	3.2
3			3.2
3		FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine	3.2
3		FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine	3.2 3.2
3		FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine	3.2 3.2 3.3
3		FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version	3.2 3.3 3.3
3		FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling	3.2 3.3 3.3 3.4 3.10
3	3.1	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start	3.2 3.2 3.3 3.4 3.10 3.13
3	3.1	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS	3.2 3.2 3.3 3.4 3.10 3.13
3	3.1	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS ELECTRONIC BOARDS, FUSES,	3.2 3.3 3.3 3.4 3.10 3.13
3	3.1	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS	3.2 3.3 3.3 3.4 3.10 3.14 3.16
3	3.1	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS ELECTRONIC BOARDS, FUSES, AND WIRING DIAGRAM	3.2 3.3 3.4 3.10 3.14 3.16
3	3.1 3.2 3.3	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS ELECTRONIC BOARDS, FUSES, AND WIRING DIAGRAM 3.3.1 Power board 3.3.2 Wiring diagram	3.2 3.3 3.4 3.10 3.13 .3.14 .3.16 3.16
3	3.1 3.2 3.3	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS ELECTRONIC BOARDS, FUSES, AND WIRING DIAGRAM 3.3.1 Power board	3.2 3.3 3.4 3.10 3.13 .3.14 .3.16 3.16 3.17 .3.18
3	3.1 3.2 3.3	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS ELECTRONIC BOARDS, FUSES, AND WIRING DIAGRAM 3.3.1 Power board 3.3.2 Wiring diagram ELECTRICAL WIRING LIST	3.2 3.3 3.4 3.10 3.13 .3.14 .3.16 3.16 3.17 .3.18
3	3.1 3.2 3.3 3.4 3.5	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS ELECTRONIC BOARDS, FUSES, AND WIRING DIAGRAM 3.3.1 Power board 3.3.2 Wiring diagram	3.2 3.3 3.4 3.10 3.13 .3.14 .3.16 3.16 3.17 .3.18
4	3.1 3.2 3.3 3.4 3.5 3.6	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS ELECTRONIC BOARDS, FUSES, AND WIRING DIAGRAM 3.3.1 Power board	3.2 3.3 3.4 3.10 3.14 3.16 3.17 3.18 3.19 3.20
	3.1 3.2 3.3 3.4 3.5 3.6 DIS CL	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS ELECTRONIC BOARDS, FUSES, AND WIRING DIAGRAM 3.3.1 Power board	3.2 3.3 3.4 3.10 3.14 3.16 3.17 3.18 3.19 3.20
	3.1 3.2 3.3 3.4 3.5 3.6	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version	3.2 3.3 3.4 3.10 3.14 3.16 3.17 3.18 3.19 3.20
	3.1 3.2 3.3 3.4 3.5 3.6 DIS CL 4.1	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version	3.2 3.3 3.4 3.10 3.14 3.16 3.17 3.18 3.19 3.20
	3.1 3.2 3.3 3.4 3.5 3.6 DIS CL 4.1	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS ELECTRONIC BOARDS, FUSES, AND WIRING DIAGRAM 3.3.1 Power board 3.3.2 Wiring diagram ELECTRICAL WIRING LIST HYDRAULIC DIAGRAMS VALVE LAYOUT SASSEMBLY AND EANING PROCEDURES DISCONNECTION OF ELECTRIC WIRING DISCONNECTION OF	3.2 3.3 3.4 3.10 3.13 .3.14 .3.16 3.17 .3.18 .3.19 .3.20
	3.1 3.2 3.3 3.4 3.5 3.6 DIS CL 4.1	FIRST INSTALLATION AND START-UP 3.1.1 Positioning of the machine 3.1.2 Connection of the machine to the power mains 3.1.3 Connection of the machine to the water mains 3.1.4 Jolly "J" version 3.1.5 Hydraulic circuit filling 3.1.6 Washing at the first start MACHINE INITIAL SETTINGS ELECTRONIC BOARDS, FUSES, AND WIRING DIAGRAM 3.3.1 Power board 3.3.2 Wiring diagram ELECTRICAL WIRING LIST HYDRAULIC DIAGRAMS VALVE LAYOUT SASSEMBLY AND EANING PROCEDURES DISCONNECTION OF ELECTRIC WIRING DISCONNECTION OF HYDRAULIC HOSES	3.23.33.43.103.143.163.173.183.193.204.1

	4.3.1 External cleaning of the machine 4.3.2 Removal of external machine panels .	
		4.3
4.4	CLEANING OF LIQUID	
	GROUNDS CONTAINER	
4.5	COFFEE GROUP WASHING	
4.6	STEAM WAND WASHING	
4.7	HOT WATER WAND WASHING	4.12
5 PR	OGRAMMING	5.1
5.1	ACCESS LEVELS WITH PASSWORD	5.3
5.2	ACCESSIBLE FUNCTIONS	0.2
5.2	ACCORDING TO LEVEL/PASSWORD	5.3
	LEVEL/PASSWORD	
	5.2.1 Configurations - machine	
	5.2.2 Counters / Dose programming	
5.3	PASSWORD ENTRY	
5.4	DOSE PROGRAMMING	
5.5	COUNTERS AND WASHING MENU	
5.5	5.5.1 Dose counter	
	5.5.2 Washing cycles	
	5.5.3 Dose counter reset	
	5.5.4 Washing counter reset	
5.6	MACHINE CONFIGURATIONS	
6 MA	AINTENANCE	6 1
6.1	GENERAL MAINTENANCE WARNINGS.	
6.2	MAINTENANCE MANUAL	
	6.2.1 Minimum stock	6.4
7 TR	OUBLESHOOTING	7.1
7.1	HOW TO DETECT AN ERROR	7.2
7.2	DEFINITION OF ERRORS	
	AND ALARM LEVELS	7.2
7.3	ALARM MESSAGES	
7.5		



MANUAL REVISION	DATE	AMENDMENTS
00	01-2019	First edition



1

INTRODUCTION

1.1	SYMBOLS	1.1
1.2	SAFETY SPECIFICATIONS	1.3
	1.2.1 HACCP module (Hazard Analysis Critical	
	Control Point)	1.6
	1.2.2 Personal protective equipment (PPE)	1.7
1.3	RESIDUAL RISKS	1.7
1.4	TOOL SET NECESSARY FOR MAINTENANCE	1.8
1.5	CONSUMABLES / ACCESSORIES	1.9
	1.5.1 Accessories supplied	1.9
	1.5.2 Parts recommended for maintenance	1.11

1.1 SYMBOLS



DANGER

It indicates a serious danger for the operator that may cause severe injury or death.



ATTENTION

It indicates a potentially dangerous situation for the operator that may cause severe injury.



WARNING

It indicates a potentially dangerous situation that may cause minor injury or machine damage.



NOTE

It points out notes or operation procedures that helps the operator when using the machine.







This symbol on the product or on the packaging indicates that the product shall not be treated as household waste, as it shall be delivered to an authorised waste collection point for recycling of electric and electronic devices.

For more detailed information about recycling of this product, contact the local authority, the local waste disposal service.

Do not position the machine in close proximity of water jets or heat sources.

Avoid the direct contact with water or other liquids also during cleaning.

Do not expose the machine to weather conditions (sun, rain, snow, etc..).

Before plugging the machine in, make sure the power switch is on "0" position and the plate data match with the ones of the electrical mains.

Unroll the power cord for its entire length to prevent the risk of dangerous overheating.



NOTE

The single-phase power supply with nominal current above 16A must be connected to the power supply with a dedicated impedance.



WARNING

The Manufacturer declines any liability for failure to comply with the above or for damages caused by the failure to properly ground.

Unplug the machine for any intervention of routine maintenance or checking.



WARNING

If residues of inedible material are found inside beverages during machine use, it is necessary to carry out maintenance.





1.2 | SAFETY SPECIFICATIONS

This manual is an integral part of the machine.

Before proceeding with installation, use and maintenance of the machine, the operator must read and fully understand the contents of this manual.

Always strictly follow the instructions contained in this manual and keep it in a safe, dry place for future reference.

The machine is intended for professional use. It must be used by skilled operators according to the instruction in the related use and maintenance manual for dispensing of:

- · Coffee:
- · Hot water:
- · Steam.

The equipment is not suitable for the installation in close proximity of water jets or heat sources. Avoid the direct contact with water jets or other liquids also during cleaning.

The machine is intended for professional use, such as:

- Refreshment areas in shops;
- Refreshment areas in offices:
- Refreshment areas in other environments:
- Holiday farms;
- Hotels;
- Motels:
- Bed & Breakfast.



ATTENTION

The machine is not intended for outdoor use.



NOTE

The machine can be installed only in places where its use and maintenance are performed only by skilled personnel.

In case of damage suffered in the premises due to accidental nature, wilfully, etc., the putting back into service must be carried out by qualified persons or our CARIMALI Service Centre.



WARNING

In order to ensure the safety of the operator and the machine, it is strictly forbidden to use the machine in a way other than that indicated in this manual and the related use and maintenance manual.



WARNING

The Manufacturer declines any liability for damage to things and/ or persons arising from an improper use of the machine and/or an incorrect maintenance.



The weighted, equivalent sound pressure level is below 70 dB.

After having unpacked the machine, verify its integrity. In case of damage or doubts about the packaging contents, contact the CA-RIMALI Service Centre within 7 days from the date of purchase.

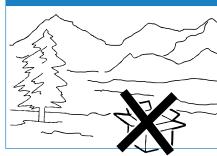
Remove the machine from the packaging completely before proceeding with installation.

Handle the machine with care to prevent the risk of impacts or falls that may cause damage.

The machine can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children are not allowed to play with the device and to carry out cleaning and maintenance operations without the supervision of trained personnel.



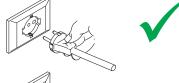
NOTE



Keep packaging parts (box, inner protections, etc.) out of reach of children since they are potential sources of danger. Do not dump those parts into the environment, but dispose them according to applicable regulations.



WARNING



Do not pull the power cord to unplug the machine from the electric socket.



Never touch the hot parts of the machine.

Never touch the machine when hands or other body parts are wet. Never immerse the machine in water.

The machine delivers high-temperature drinks. Beware of scalding that can be caused by accidental contact with the steam wand or porta filter while using the machine.







In case of fault or malfunctioning of the machine, switch it off and unplug.

In case of power cord damage, have it replaced to prevent any risk.

Once the machine is no longer in use or idle for any length of time, it is necessary to drain the boiler tanks.



WARNING

If the machine is idle for any period, carry out the necessary maintenance operations to allow it to return to work in optimum condition.

In case the machine is not used any longer, render it inoperative.



NOTE

The Manufacturer reserves the right to carry out technical and aesthetic modifications to the machine and/or this manual for manufacturing or sales reasons without obligation to update the previous versions.

Owing to the above, some pictures contained in this manual may slightly differ from the actual product.

THE latest version of the manual can be accessed by registering in the area reserved to customers of the official Carimali website.



1.2.1 HACCP module (Hazard Analysis Critical Control Point)

Herewith we declare that out machines HORECA have been designed and built in compliance with the sanitary laws of the European Community.

Always refer to the hygiene Directives and Regulations on food safety applicable in the Country.

For identification and assessment of the risk relating to food safety, a HACCP planning must be borne by the food business operator (OSA). It is advisable to carry out a risk analysis in the installation places.

With a correct installation, care, maintenance, and cleaning with approved detergents, Carimali meets the above requirements.

For cleaning all parts in contact with food, use a specific, certified product.

For cleaning the coffee group, use the detergent tablets (cleaner) Carimali (refer to the spare parts catalogue).

Even though the risk assessment in hygienic safety is to be borne by the food business operator (OSA), the Manufacturer has envisaged a ordinary maintenance plan, which ensures the best operation of the machine over the time.

To monitor the normal wear of the parts, refer to timing indicated in the ordinary maintenance tables.



ATTENTION

For further information about the ordinary cleaning and maintenance operations, refer to the chapter MAINTENANCE contained in this manual, where the consumable parts, that may lead to a contamination of beverage, are specified.



1.2.2 Personal protective equipment (PPE)



ATTENTION

Always wear the PPE during maintenance procedures.



Protective gloves



Protective goggles

1.3 RESIDUAL RISKS

The Manufacturer pre-sets all necessary measures to ensure operator's safety when using the machine.

Anyway, some inconveniences may occur in certain conditions and/ or situations. The causes may be:

- · Operator not suitably trained and/or experienced;
- · Machine misuse:
- · Use of foodstuffs close to their expiry date or already expired;
- Use of non-certified foodstuffs;
- · Use of non-original spare parts;
- · Unauthorized modifications on the machine;
- Improper maintenance of the machine.



ATTENTION

Always be very careful during the maintenance procedures with the machine connected to the mains.



1.4 TOOL SET NECESSARY FOR MAINTENANCE

Icon











Description

Phillips screwdriver

Flat head screwdriver

Pliers

Hex wrench

Torx wrench

Socket wrench



1.5 **CONSUMABLES / ACCESSORIES Accessories supplied** 1.5.1 **Description** Code **Image** Brush 95.01773 for spray head cleaning Measuring spoon 37.00001 35.00003 Coffee strainer Filter Holder + 01.06656 wooden knob Side 1-way spout 22.00786.CR 22.00782.CR 2-way spout





Code

87.00104

14.05252 PR.08444







Description

Big blind filter membrane

1-dose filter 2-dose filter



1.5.2	Parts recommended for maintenance	
Code	lmage	Description
06.00133	CARIMALI MACCHINE PER CAFE Esperson Machine Caseing Tableta Parties are la Unique de Misquinus de Car Parties aver la Unique de Misquinus de Misquinus de Car Parties aver la Unique de Misquinus de Misquinus de Car Parties aver la Unique de Misquinus de Car Parties aver la Unique de Misquinus de Car Parties aver la Unique	Detergent Cleaner CARIMALI (tablets)
01.01081		Coffee grounds basin
95.01773	• Chroni	Spray head clean- ing brush
95.01806		Brush for coffee circuit clean- ing
95.05050	(a)	Brush for steam wand cleaning
95.01567		Brush for silicone hose cleaning
		\\\



>>> Code	Image	Description
35.00003		Coffee press
95.01774		Calibrated coffee press
37.00001		Calibrated spoon for pre-ground coffee
95.01831		Insulation for steam hose Discharge hose (Ø10 mm)
37.00255		Insulation for steam hose (Ø8 mm)
95.01026	WHERE COORDINATE OF THE PARTY O	Pipe clip for drain hose (Ø16-27 mm)
97.00150		L-shaped joint (Ø16 mm)
87.00104		Big blind filter mem- brane
		>>



>>> Code	Image	Description
A 0112		Cutter for Teflon hoses
95.01269	THE STOP OF THE STOP	Discharge hose (Ø16 mm)
96.00202		Serial cable for con- necting the PC to the cash register
04.00828		AVR programming kit
22.00805		L-shaped joint
22.00786.CR		Side 1-way spout
22.00782.CR		2-way spout
14.05252 PR.08444		1-dose filter 2-dose filter
		>>>





Code

A 0101 A 0060

04.00061 04.00062

86.00039

Image







Description

Socket wrench (CH 37 mm) (CH 42 mm)

Purifier kit for ion exchange (8 I - 12 I)

> Insulation in rubber for hose (Ø8 mm)



2

MACHINE DESCRIPTION

2.1	5-LED TOUCHPAD	2.2
	2.1.1 Dispensing Mode	2.2
	2.1.2 Programming Mode	
2.2	OPTIONAL	2.3
2.3	ADDITIONAL UNITS	2.4
2.4	MACHINE IDENTIFICATION	2.5
2.5	TECHNICAL CHARACTERISTICS	2.6
	2.5.1 Overall dimensions	2.6
26	TRANSPORT STORAGE AND DISPOSAL	27



Button of hot water dosed

5-LED touchpad

Hot water spout

NOTE

The main parts are listed below.

The image is only an example and may differ in colour from the machine purchased.



Programming display

Steam tap

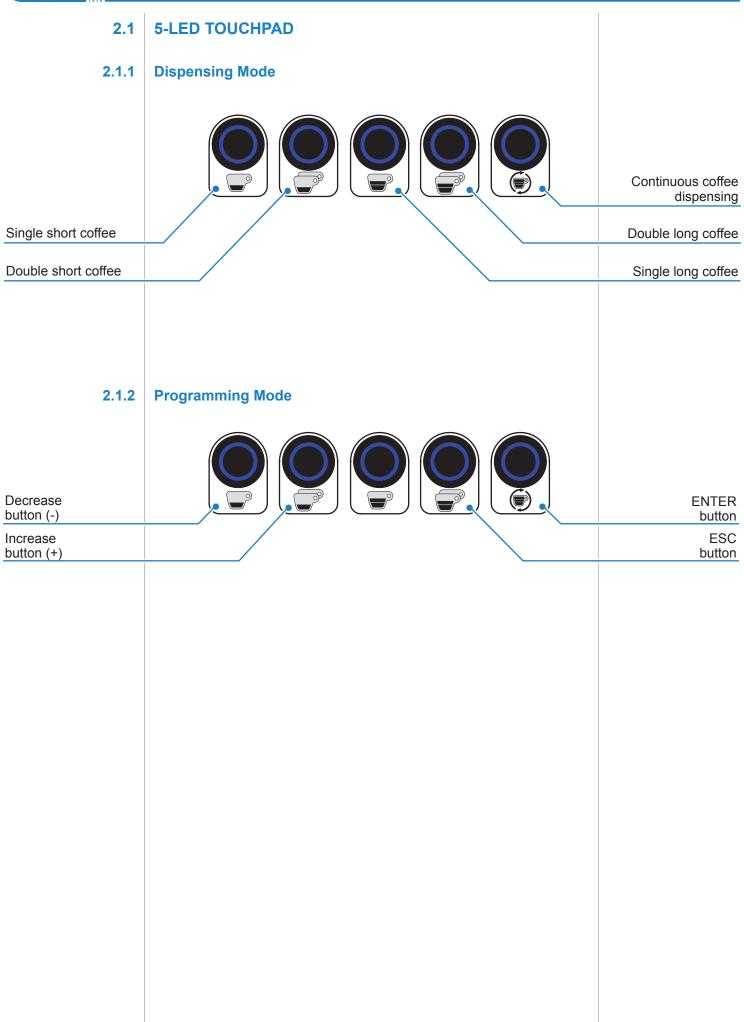
Steam wand

Drip tray

Coffee unit

Stainless steel grid







2.2 OPTIONAL

Water jolly



CARIpure 100 water filter (100L)





0

NOTE

For further details, refer to the specific description paragraphs.



2.3 **ADDITIONAL UNITS**



ATTENTION

Refer to the specific label of the additional unit of yours to verify the correspondence of data.



Hopper	capacity
Vol	tage
Frequ	uency
Fridge	nower

Fridge power Dosing

Net Weight (empty)

Dimensions:

Width

Length Height

Motor

	П	
\mathbf{r}	ப	~
		-

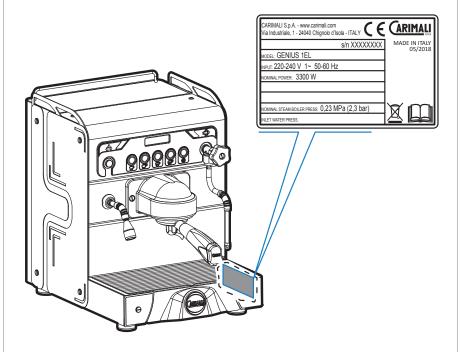
250 g
120 / 230 V
50 / 60 Hz
150 W
on demand - 1 programmable dose
4.8 Kg

152 mm 250 mm 382 mm

1400 rpm - 1680 rpm



2.4 MACHINE IDENTIFICATION



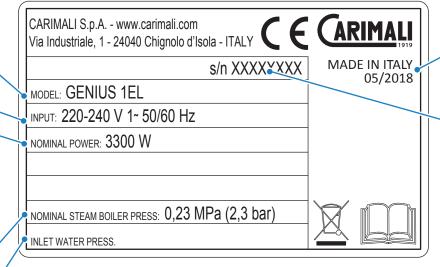
Machine model

Power supply

Rated power

Steam boiler rated pressure

Water mains connection inlet pressure



Production month / year

Progressive serial number



NOTE

If the data plate shows the letter "J", the machine is version JOLLY (water mains + tank). If it is missing, the machine has no connection to the water mains, but is only equipped with the tank.

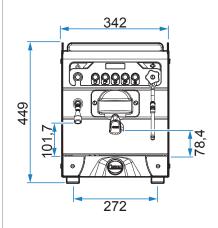


2.5 TECHNICAL CHARACTERISTICS

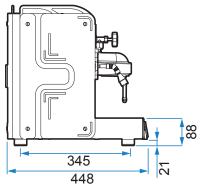


DESCRIPTION	DATA	
Power supply	220-240	
Electric power	3300 W	
Frequency	50-60 Hz	
Power consumption	14.3 A	
Coffee boiler capacity	0.6 I	
Coffee boiler power	1.8 Kw	
Steam boiler capacity	0.6 l	
Steam boiler power	1.2 Kw	
Pressure (water mains version)	8 - 9 bar	
Water tank capacity	2	
Drip tray capacity	1.5	
Type of vibration	pump	
Weight	23 Kg	

2.5.1 Overall dimensions

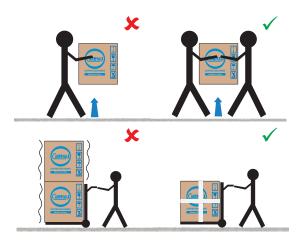


Measurements expressed in mm





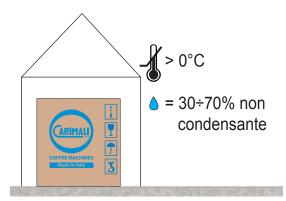
2.6 TRANSPORT, STORAGE, AND DISPOSAL





WARNING

Handle the packaging by means of the apposite carrying handles.





WARNING

In case of prolonged storage at temperatures below 2°C, the water circuit in the machine must be drained.

Do not switch the machine on before having reconditioned it for at least 1 hour at a suitable room temperature. If it is installed in areas with room temperature above 30°C, malfunctioning may occur.



WARNING

When the machine is not used any longer, render it inoperative after having unplugged it and having cut the power cord.



NOTE

The disposal of the machine is not responsibility of the Manufacturer and must be carry out in compliance with the applicable regulations.



WARNING

Follow the aforesaid disposal procedures, subject to penalties set forth in the applicable waste legislation.



Page intentionally left blank



3

INSTALLATION

3.1	FIRST	INSTALLATION AND START-UP	3.2
	3.1.1	Positioning of the machine	3.2
	3.1.2	Connection of the machine to the power mains .	
	3.1.3	Connection of the machine to the water mains	3.3
	3.1.4	Jolly "J" version	3.4
	3.1.5	Hydraulic circuit filling	3.10
	3.1.6	Washing at the first start	3.13
3.2	MACH	INE INITIAL SETTINGS	3.14
3.3	ELEC	TRONIC BOARDS, FUSES,	
	AND \	NIRING DIAGRAM	3.16
	3.3.1	Power board	3.16
	3.3.2	Wiring diagram	3.17
3.4	ELEC	TRICAL WIRING LIST	3.18
3.5	HYDR	RAULIC DIAGRAMS	3.19
3.6	VALVE	E LAYOUT	3.20



WARNING

The machine shall be installed by a skilled technician according to the applicable law.



3.1 | FIRST INSTALLATION AND START-UP



WARNING

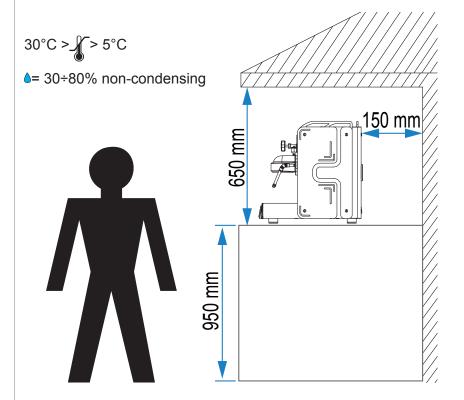
The machine shall be installed using the parts supplied and shall be powered with water suitable for human consumption.



WARNING

The machine is configured by the manufacturer. Anyway, it is advisable to carry out the Preset of the parameters at the TECHNI-CIAN level after the first installation.

3.1.1 Positioning of the machine



Position the machine:

- In closed environments with temperature between 5°C and 30°C.
- At a minimum distance of 150 mm from walls or other objects, to facilitate ventilation.
- Horizontally, on a flat, stable surface, at a height above 950 mm.



WARNING

Position the machine on a horizontal surface.



WARNING

Do not obstruct the openings or slots for ventilation or heat dissipation and do not insert water or any kind of liquid.









WARNING

In case of prolonged storage at temperatures below 2°C, the water circuit in the machine must be drained. Do not switch the machine on before having reconditioned it for at least 1 hour at a suitable room temperature. If it is installed in areas with room temperature above 30°C, malfunctioning may occur.



NOTE

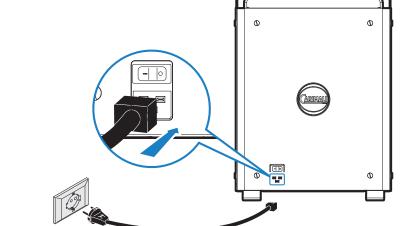
The machine with raised containers or feet cannot be installed on a surface under a wall unit, due to its wider dimensions.





DANGER

Do not carry out this operation with wet or damp hands.



Insert the connector into the machine socket and connect the cable to the power outlet.

NOTE

Make sure the connector is properly inserted into the apposite machine socket.



3.1.3 Connection of the machine to the water mains

<u>^!\</u>

WARNING

The connection to water mains must be done by a skilled technician in compliance with applicable regulations.

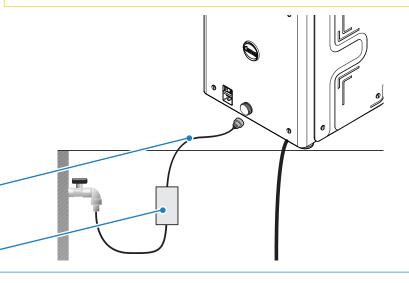


NOTE

Use the certified CARIMALI power hose (95.01889). In case of need, the Customer shall envisage and install the softener filter.



External softener filter to be installed by the Customer













ATTENTION

To prevent damages to hydraulic system, the optimal range of the water inlet from the mains is between 10 and 15 French Degrees (60-80 mg/l Ca).

ATTENTION

The mains water pressure must never exceed 6 bar (0.6 MPa).

If this is not the

If this is not the case, it is necessary to install a pressure reducer.



ATTENTION

For water mains connection, use only the hose and the fittings supplied with the device.

Do not utilize used parts.



WARNING

For the proper operation of the machine, install a softener filter (purifier kit) with external water non-return system.

3.1.4 Jolly "J" version



NOTE

The Jolly version (J) can operate both with the water mains connection and the tank. It is possible to pass from a version to the other via the connections and the software settings.

Hereunder the procedure from water mains to the tank is described. For passing from the tank to the water mains, proceed in the reverse order.









NOTE

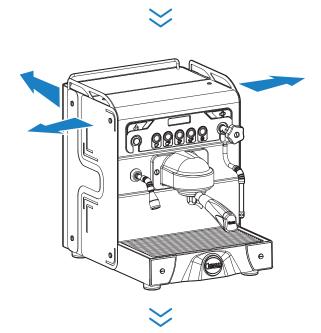
At the factory, the machine is preset for the operation with the water mains.

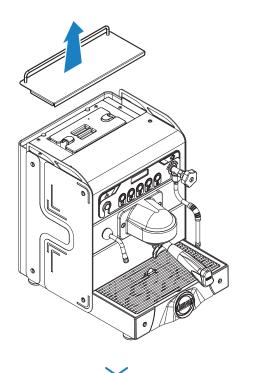
ATTENTION

Before intervening on the machine, unplug it and close the water mains tap.

NOTE

Prepare a container for collecting any water leakage.





Remove the side and rear panels.

Remove the tank and empty it, if necessary.





HEREUNDER THE PROCEDURE FROM WATER MAINS TO THE TANK IS DESCRIBED.

Air break hose

Tank hose

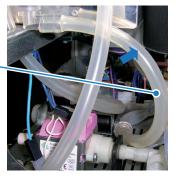
Tank hose cap

Air break hose

Tank hose

Filter





VIEW FROM RIGHT SIDE



REAR VIEW

Remove the hose of the air break from the filter.

NOTE

Empty the hose from any water residues.

Remove the cap from the tank hose and insert it into the air break hose.

Connect the tank hose to the filter.











Disconnect the electric wiring of the flowmeter.









Fasten the flowmeter to the main wiring using a clamp to avoid accidental contacts with voltage or cold parts.

Disconnect the connector from the air

connect it to the tank

micro and

break

sensor.

NOTE

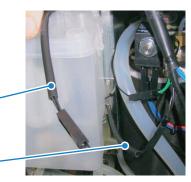












VIEW FROM LEFT SIDE



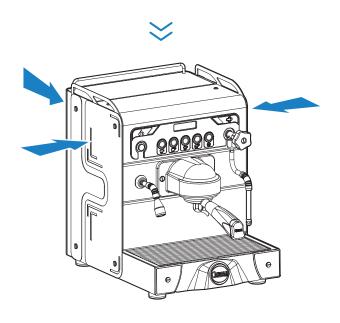


Air break sensor connector

Tank sensor connector

NOTE

Fasten the air break micro to the main wiring using a clamp to avoid accidental contacts with voltage or cold parts.



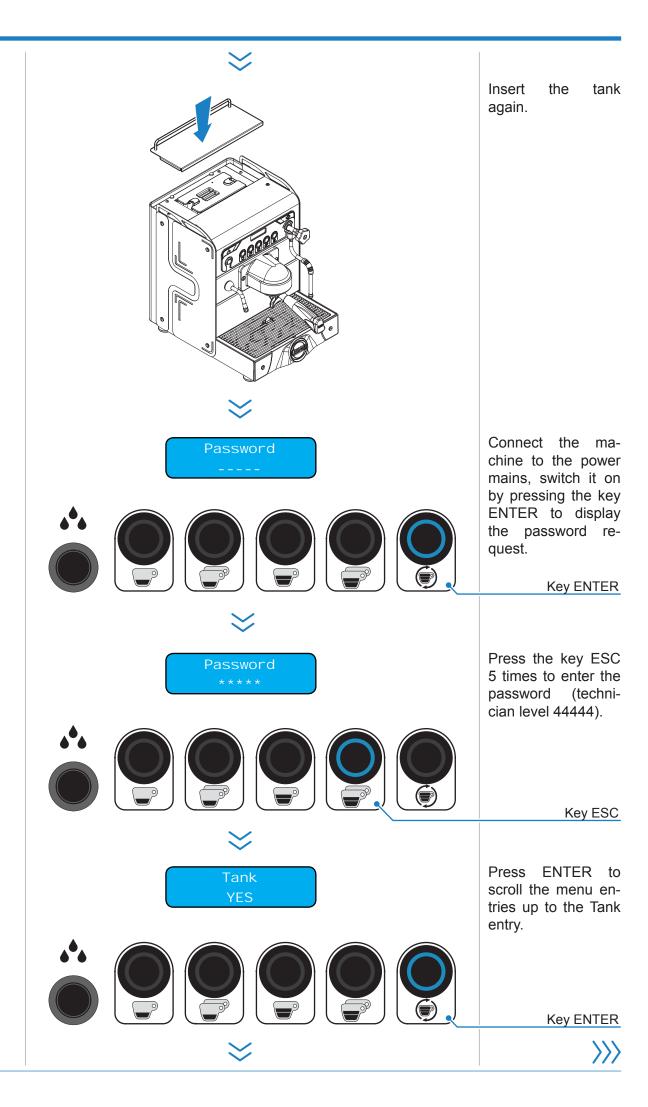
Fit again the side and rear panels.



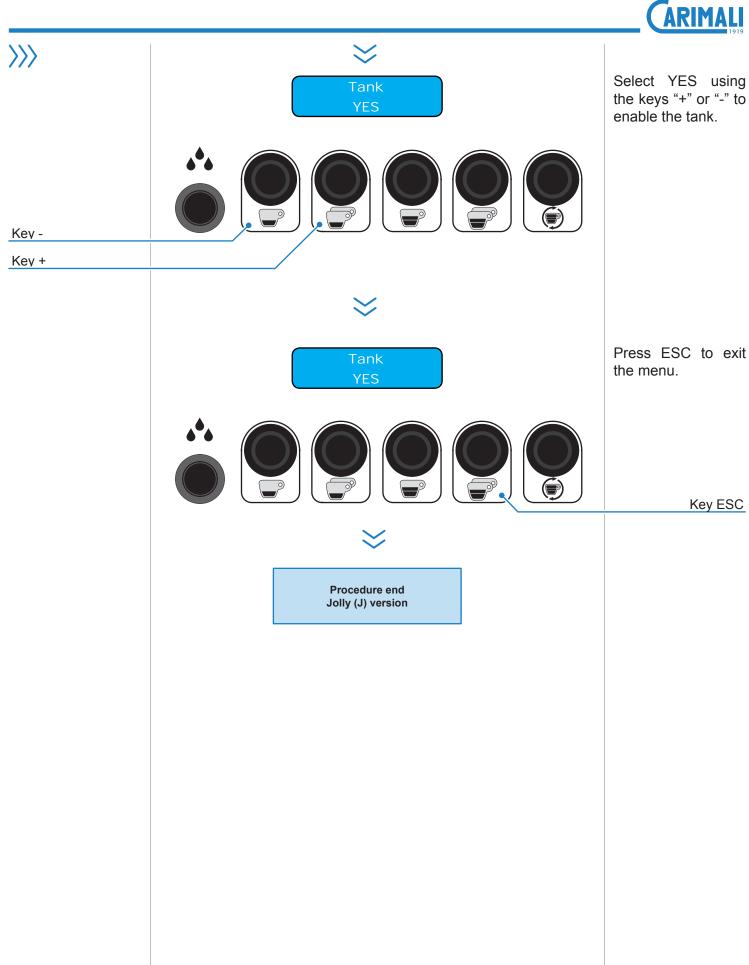














3.1.5 | Hydraulic circuit filling



ATTENTION

Never use the machine without water.

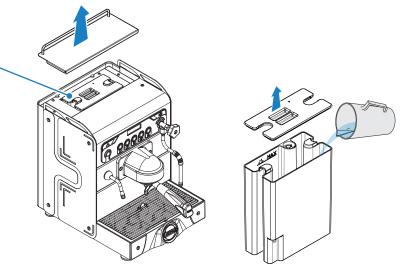
MACHINE VERSION WITH TANK



ATTENTION

Initially, switch the machine off and disconnect the power cable.

Water tank



Open the cover and remove the water tank.

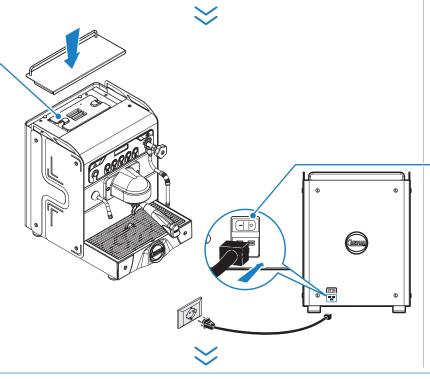
Fill the tank with water up to the MAX level or with minimum 1.5 litres of water.



NOTE

Always install the apposite filter CARIMALI (CariPure 100 Water Filter) into the tank. Once having inserted the adapter, always use the filter for the correct indication of empty tank.

Water tank



Insert the full tank into the machine and close the cover.

Key button

Connect the power cable and position the switching on button to the position "I" to switch the machine on.

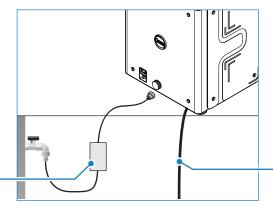
Wait until the firmware is loaded and follow the procedure on the display.







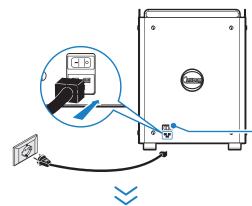
MACHINE VERSION WITH WATER MAINS CONNECTION



After having connected the machine to the water mains, make sure the mains tap is open.

External softener filter to be installed by the Customer

Any liquid drain



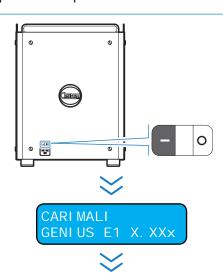
Connect the power cable.

Key button



NOTE

The machine fill water in the tank up to the max. level. Thereafter, it is possible to proceed with the boiler filling.



Press the switching on button situated on the rear side of the machine to position "I".

Wait until the firmware is loaded and follow the procedure on the display.



NOTE

The procedure on the display is the same for both machine versions. During the process, the display signals any errors.



WARNING

After the filling process of the hydraulic circuit has been started, it cannot be stopped and must be completed for the proper operation of the machine.











CARIMALI GENIUS ENJOY















Filling Boiler



NOTE

During this phase the buttons flash slowly.



CARIMALI GENIUS Heating



This operation starts automatically when switching the machine on and stops when the boiler is filled up to the max. level.

Press the flashing

buttons to bring the

machine to ON.

The heating phase of the coffee boiler starts.



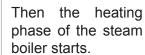
NOTE

During this phase the buttons flash alternately.



Steam heating... ENJOY







NOTE

The coffee and steam boilers take some minutes to reach the operating temperature.

During the steam boiler heating, if the boiler has reached the temperature, coffee or hot water can be dispensed.













NOTE

At the end of the first filling of the hydraulic circuit, it is advisable to carry out emptying of the boiler and fill it again.

This operation allows to remove any impurity in the circuit. For further details about boiler emptying, refer to the relevant paragraph.



NOTE

At the end of the complete procedure, the following amounts (approx.ly) had been dispensed:

- 2 litres of water from the hot water outlet;
- 1 litre of water from each coffee outlet;
- 1 minute of active steam from the apposite wand.



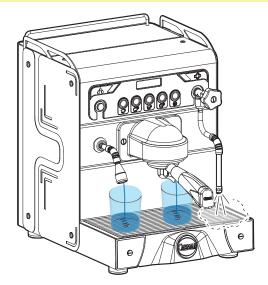
Procedure end Hydraulic circuit filling

3.1.6 Washing at the first start



WARNING

When using for the first time, or after a long period of disuse of the machine, wash to eliminate any impurities that may be in the boilers.



- 1. Dispense 1.5 I water from each intake point.
- 2. Dispense steam for 1 minute.



Procedure end Washing at the first start



3.2 | MACHINE INITIAL SETTINGS



NOTE

For further details, refer to chapter 5 "PROGRAMMING".



NOTE

The following table shows the default data and settings of the machine.

Initial configurations

PARAMETERS	DATA
Language	English
Coffee boiler temperature	92°C
Steam boiler temperature	126°C
Coffee group temperature	80°C
Temperature unit of measure	°C
Water purifier	Off
Tank	No



NOTE

If the purifier filter is fitted on the water mains, the relevant parameter must be set on 99999 litres.





Dose initial setting















PARAMETERS	DOSES
Espresso	Coffee water: 20ml Pre-infusion: 3 ml Pause: 2 s
2 x Espresso	Coffee water: 40 ml Pre-infusion: 3 ml Pause: 2 s
Long coffee	Coffee water: 80 ml
2 x Long coffee	Coffee water: 130 ml
Continuous dispensing	Coffee water: 150 ml
Hot water	100 ml or 10 s

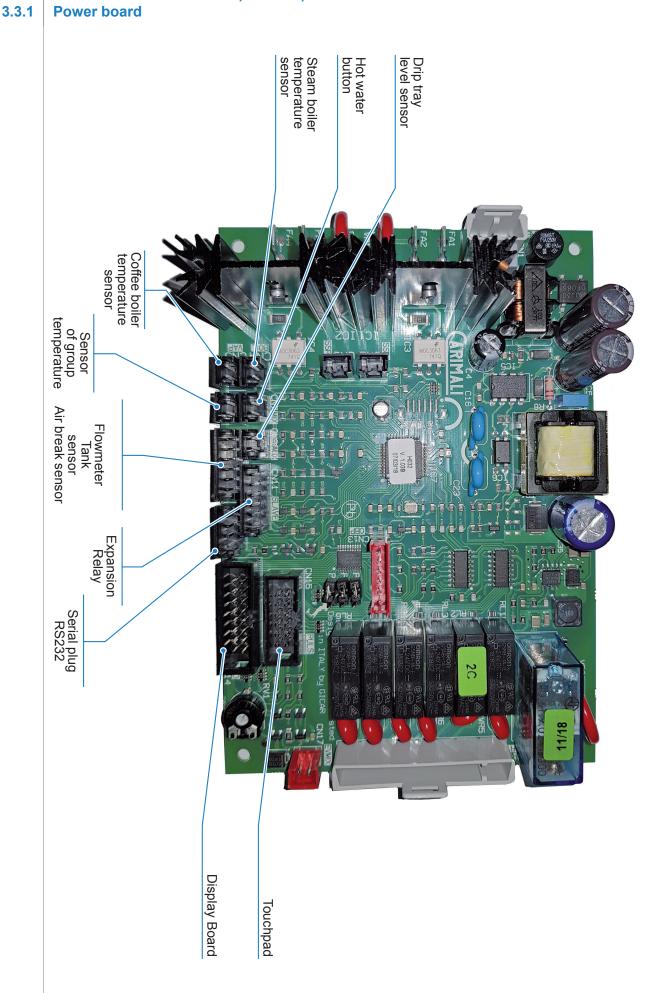


Description end Machine initial configuration



3.3

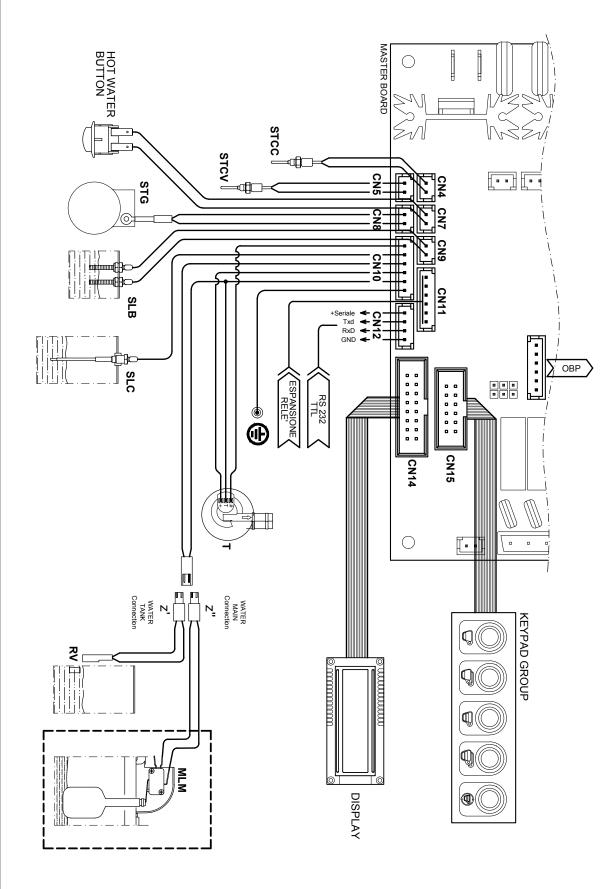
ELECTRONIC BOARDS, FUSES, AND WIRING DIAGRAM Power board





3.3.2 | Wiring diagram

Parts Coffee group temperature probe Drip tray level probe Steam boiler level probe
--





3.4 | ELECTRICAL WIRING LIST

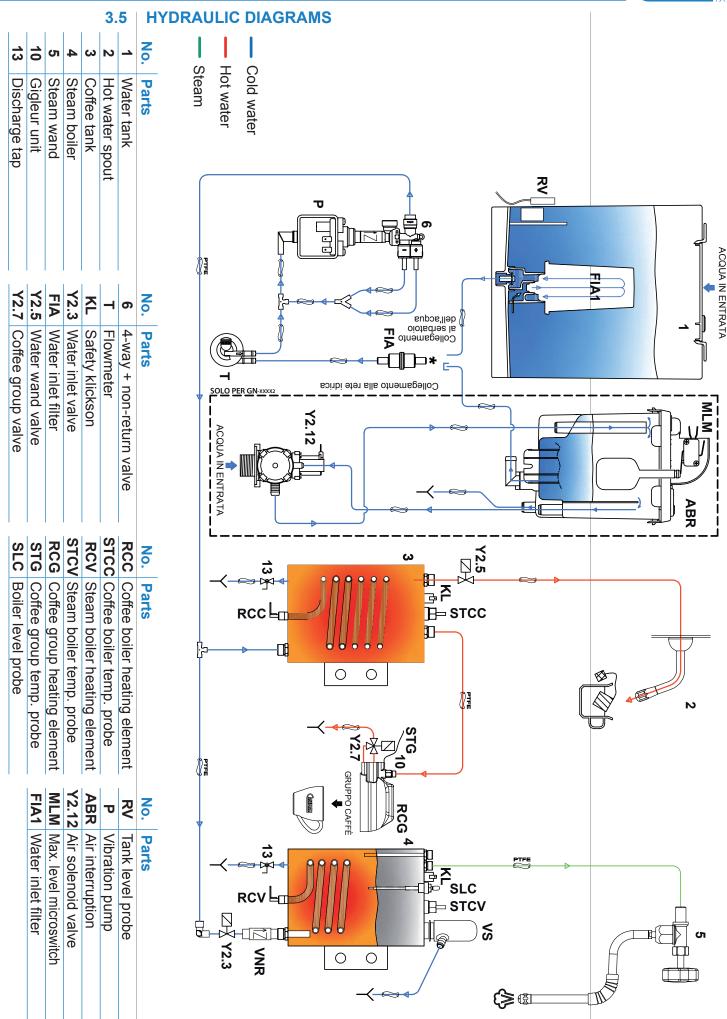
CODE	DESCRIPTION	QTY. (pc.)	Table reference
03.05294	Touchpad connection	1	5
03.05296	General wiring	1	9
03.05318	Air break micro wiring	1	7
03.05295	Display wiring	1	5



NOTE

For further information, contact the Carimali Technical Service and refer to the Spare parts catalogue for the latest modification index.

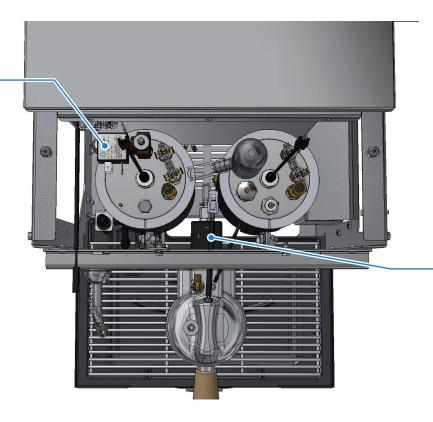




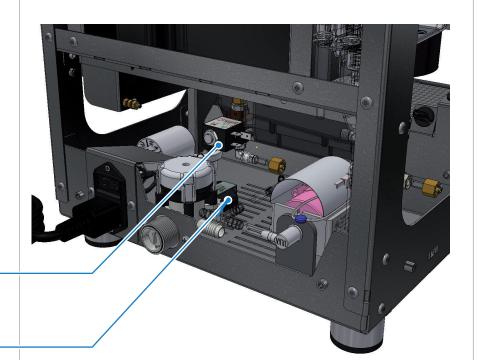


3.6 | VALVE LAYOUT

Solenoid valve of hot water (Y2.5)



Solenoid valve of coffee unit (Y2.7)



Solenoid valve of loading (Y2.3)

Solenoid valve Of air-break (Y2.12)



4

DISASSEMBLY AND CLEANING PROCEDURES

4.1	DISCONNECTION OF ELECTRIC WIRING	4.2
4.2	DISCONNECTION OF HYDRAULIC HOSES	4.2
4.3	MACHINE PANELS	4.3
	4.3.1 External cleaning of the machine	4.3
	4.3.2 Removal of external machine panels	4.3
4.4	CLEANING OF LIQUID GROUNDS CONTAINER	4.5
4.5	COFFEE GROUP WASHING	4.6
4.6	STEAM WAND WASHING	4.10
4.7	HOT WATER WAND WASHING	4.12

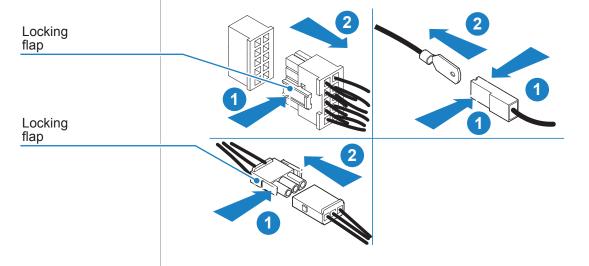


4.1 | DISCONNECTION OF ELECTRIC WIRING

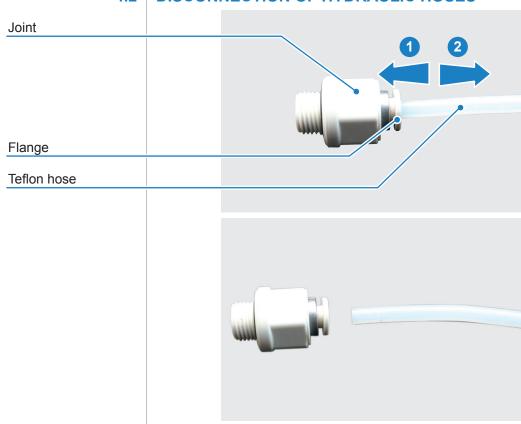


ATTENTION

Do not damage the electric connections. Press the locking flap before removing the connector to prevent it being damaged.



4.2 DISCONNECTION OF HYDRAULIC HOSES



Press the flange towards the joint to release the hose. Remove the Teflon hose.



ATTENTION

dampened

lukewarm water. Never use:

gents

acids.

 Abrasive cloths or steel brushes;
 Aggressive, foaming deter-

other solvents;Hot water and

Daily clean the outer surfaces using a non-abrasive cloth,

with

and/or

4.3 | MACHINE PANELS

4.3.1 External cleaning of the machine





0

NOTE

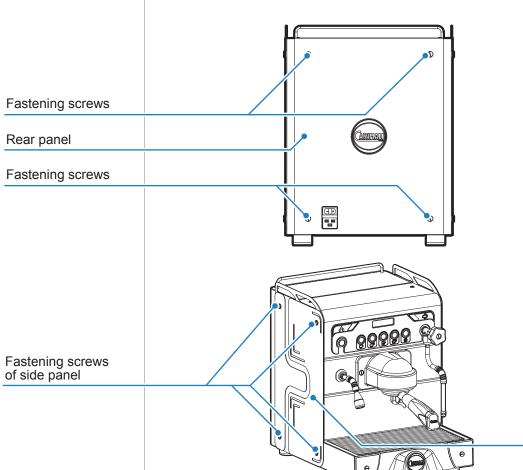
To access the inner components of the machine, it is necessary to open the front door, remove the rear panel, the side panels of the machine, and the grounds basin.

4.3.2 Removal of external machine panels



ATTENTION

Be very careful when handling the machine panels to prevent them from being damaged.



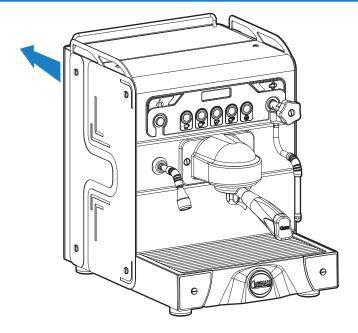
Loosen the locking screws of the rear

panel to release it.

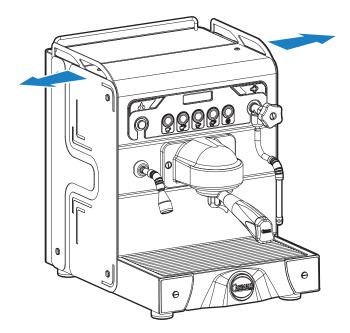
Loosen the locking screws of the side panels to release them.

Side panel





Remove the panel towards the rear side of the machine.



Remove the panels from the machine to release them.

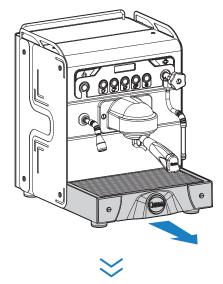


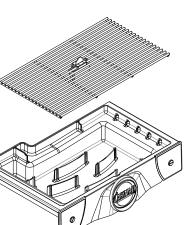
4.4 | CLEANING OF LIQUID GROUNDS CONTAINER

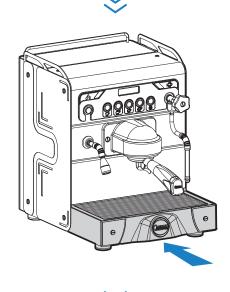
Required tools:

- Lukewarm water;
- Brush.

Remove the liquid container towards the front side of the machine.

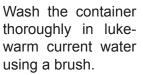








Procedure end Cleaning of liquid grounds containers



NOTE

Wash and wipe with care to prevent the proliferation of bacteria.

Insert the container back into the machine.





4.5 | COFFEE GROUP WASHING



NOTE

Carry out washing every day at the end of the work shift.



WARNING

Do not wash the parts and the filter holder in the dishwasher.

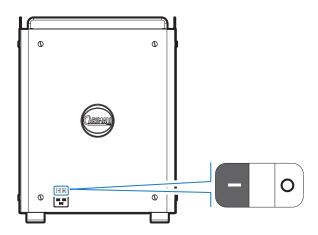


NOTE

For washing operations, use the Carimali detergent pads (06.00133).







Switch the machine off.





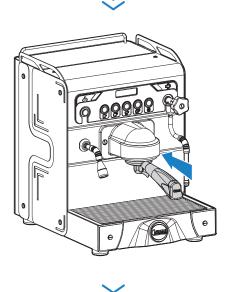
Insert the blind filter into the filter holder together with a detergent tablet.











Insert the filter holder into the coffee dispensing group.









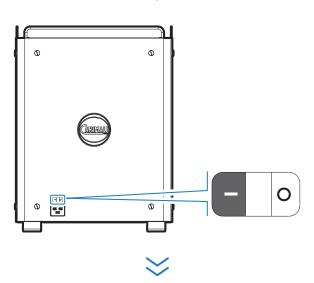




With the machine open, press and keep pressed the buttons indicated for accessing the washing mode.



Step No.



Keeping pressed the above buttons, switch the machine on.

















The display shows the steps remaining to the end of the washing cycle.









Off





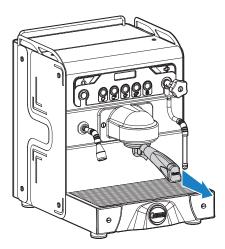












Remove the filter holder and wash it under running water.

At the end of the cycle, the machine

goes into OFF.





Remove any coffee residues with a soft cloth or the supplied brush.



Do not wash the parts and the filter holder in the dishwasher.

Brush the dispensing group spray head.











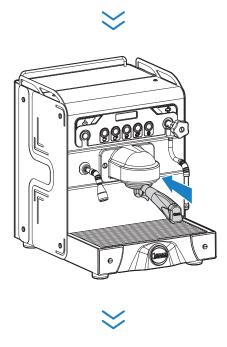






NOTE

Wipe well: filter holder parts and the filter holder to prevent the proliferation of bacteria.



Re-fit the filter holder into the dispensing group.



WARNING

Before proceeding with the normal use of the machine, carry out some test dispensing cycles.



Procedure end Coffee group washing



4.6 **STEAM WAND WASHING**



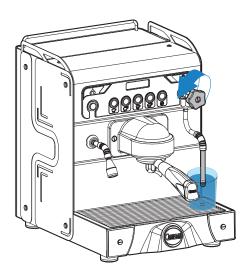
NOTE

Carry out washing after each dispensing or every day at the end of the work shift.



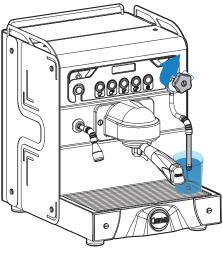
NOTE

If washing is not perfect, repeat this operation several times.



Immerse the steam wand into a container with hot water and open the tap for a short time.





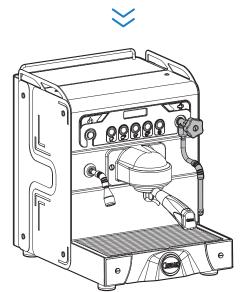
Close the steam wand.











Remove the steam wand from the container and dry it with a dry cloth.



NOTE

Make sure the part in contact with liquids is properly clean (from the retaining rubber to the nozzle).



Procedure end Steam wand washing

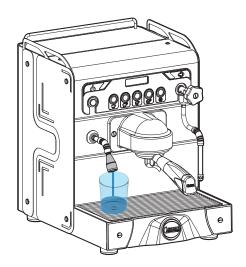


4.7 | HOT WATER WAND WASHING



NOTE

At the end of the procedure, if washing is not perfect, repeat this operation several times.



Position a container underneath the hot water spout and dispense a small amount of water.



NOTE

Dry the wand well with a dry cloth.



Procedure end Hot water wand washing





PROGRAMMING

5.1	ACCE	SS LEVELS WITH PASSWORD	5.2
5.2	ACCE	SSIBLE FUNCTIONS ACCORDING TO	
	LEVE	L/PASSWORD	5.2
	5.2.1	Configurations - machine	5.2
	5.2.2	Counters / Dose programming	5.2
5.3	PASS	WORD ENTRY	5.3
5.4	DOSE	PROGRAMMING	5.4
5.5	COUN	NTERS AND WASHING MENU	5.10
	5.5.1	Dose counter	5.10
	5.5.2	Washing cycles	5.12
	5.5.3	Dose counter reset	5.13
	5.5.4	Washing counter reset	5.14
5.6	MACH	HINE CONFIGURATIONS	5.16



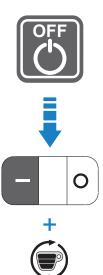
5.1 | ACCESS LEVELS WITH PASSWORD

LEVEL	USER	PASSWORD
1	Waiter	11111
2	Technician	44444

5.2 ACCESSIBLE FUNCTIONS ACCORDING TO LEVEL/PASSWORD

5.2.1 Configurations - machine

1	2
LANGUAGE ✓	✓
BOILER TEMPERATURE ✓	✓
STEAM TEMPERATURE ✓	✓
GROUP TEMPERATURE ✓	✓
TEMPERATURE UNIT OF MEASURE	✓
PRE-INFUSION	✓
WATER PURIFIER	✓
TANK	✓
BOILER EMPTYING	✓



5.2.2 Counters / Dose programming



NOTE

For accessing these functions, it is not necessary to enter the password.

- Dose counter;
- Washing cycles;
- · Dose counter reset;
- Washing counter reset.







Counters





Doses



5.3 | PASSWORD ENTRY



Enter the password via the keypad and press ENTER.



NOTE

Any error occurred when entering the password resets entry.

Password ****











Subsequently, the password can be entered again.



Description end Password entry



5.4 | DOSE PROGRAMMING



Programmi ng

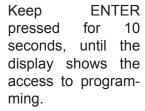














NOTE

When accessing the dose programming, the keys flash.



NOTE

The doses are set in a volumetric mode, according to the amount of product dispensed.







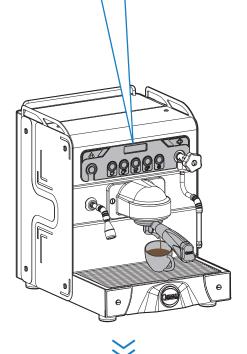








Press to start dispensing of the selected dose.











Programmi ng Espresso

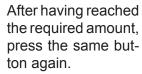










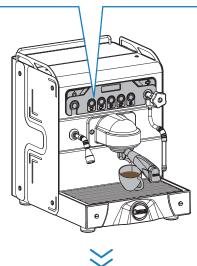




The doses can be set from 0 to 200 ml.

Press to go to the next dose programming.







NOTE

The machine saves the dispensed dose for the button selected and gets ready for programming of the next dose.



Programmi ng 2 x Espresso





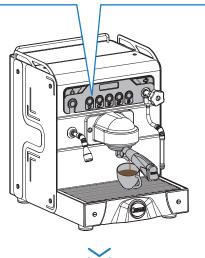








Press to start dispensing of the selected dose.



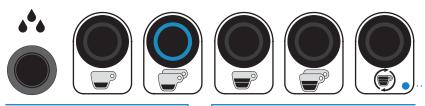






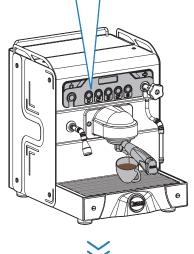


Programmi ng 2 x Espresso



After having reached the required amount, press the same button again.





NOTE

The doses can be set from 0 to 200 ml.

Press to go to the next dose programming.



NOTE

The machine saves the dispensed dose for the button selected and gets ready for programming of the next dose.



Programmi ng Long Coffee





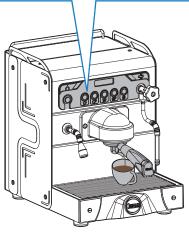








Press to start dispensing of the selected dose.













Programming Long Coffee

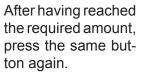




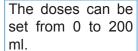






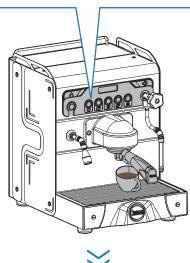






Press to go to the next dose programming.







NOTE

The machine saves the dispensed dose for the button selected and gets ready for programming of the next dose.



Programming 2 x Long coffee





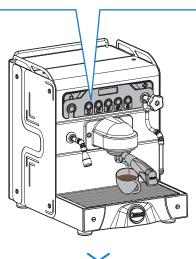








Press to start dispensing of the selected dose.









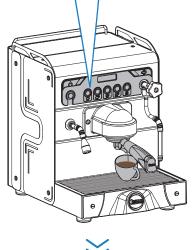


Programming 2 x Long coffee



After having reached the required amount, press the same button again.





NOTE

The doses can be set from 0 to 200 ml.

Press to go to the next dose programming.



NOTE

The machine saves the dispensed dose for the button selected and gets ready for programming of the next dose.

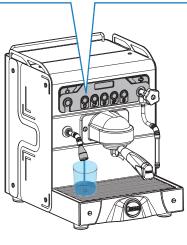


Programmi ng Hot water



Press to start dispensing of the selected dose.

Press to exit the dose programming menu.











Programming Hot water



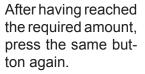




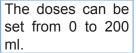






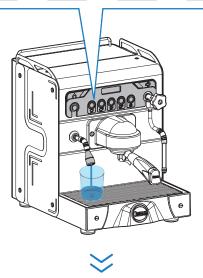






Press to go to the next dose programming.







NOTE

The machine saves the dispensed dose for the selected button automatically.

After the Hot Water dose, programming restarts from the Espresso dose.



CARIMALI GENIUS ENJOY













Press ENTER to stop programming of doses and return to the main screen.



Procedure end Dose programming



5.5 COUNTERS AND WASHING MENU

5.5.1 Dose counter



CARIMALI GENIUS ENJOY













Keep ENTER pressed for 5 seconds, until the display shows the access to counters and washing menu.



NOTE

The following data are by way of example.



Doses counter Espresso 2





When accessing, the first espresso counter is shown.

It scrolls the menu upwards.

It scrolls the menu downwards.





exit the menu.













It shows the counter of the double espresso.

Press to

Press to

exit the menu.

It scrolls the menu upwards.

It scrolls the menu downwards.



Doses counter Coffee L 1











It shows the long coffee counter.

It scrolls the menu upwards.

It scrolls the menu downwards.



Press to exit the menu.









Doses counter 2 x Coffee L 1











It shows the counter of the double long coffee.

Press to exit the menu.

It scrolls the menu upwards.

It scrolls the menu downwards.



Doses counter Dose Star 0











It shows the counter from the start/stop dispensing.



Doses counter T51 2











It shows the counter of water doses dispensed.



Doses counter T52











It shows the counter of steam dispensing.



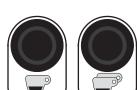
Procedure end Dose counters



5.5.2 Washing cycles



CARIMALI GENIUS ____ENJOY









Keep ENTER pressed for 5 seconds, until the display shows the access to counters and washing menu.



Doses counter Espresso 2











Press to scroll the menu entries.



Cl eani ng Cycl e 14











It shows the number of washing cycles carried out.

Press to exit the menu.



Procedure end Washing cycles



5.5.3 Dose counter reset



CARIMALI GENIUS ENJOY



Keep ENTER pressed for 5 seconds, until the display shows the access to counters and washing menu.





Press to scroll the menu entries.



CI eani ng Cycl e 14



Press to scroll the menu entries.



Reset dose count NO











It allows to reset the counters of the doses.

Press to exit the menu.

Press to scroll the options.



NOTE

When "YES" is selected, press ENTER to confirm the reset.



Procedure end Dose counter reset



5.5.4 Washing counter reset



CARIMALI GENIUS ENJOY











Keep ENTER pressed for 5 seconds, until the display shows the access to counters and washing menu.



Doses counter Espresso 2











Press to scroll the menu entries.



CI eaning Cycl e 14











Press to scroll the menu entries.



Reset dose count NO











Press to scroll the menu entries.











Reset cleaning











It allows to reset the counter of the washing processes carried out.

Press to exit the menu.



Press to scroll the

options.

NOTE

When "YES" is selected, press ENTER to confirm the reset.

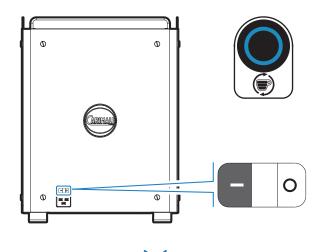


Procedure end Washing counter reset



5.6 | MACHINE CONFIGURATIONS





To access the technical settings, switch the machine on via the main switch and keep pressed ENTER.



Press to scroll the options

Press to scroll the options

backwards.

forwards.





The display shows the password entry screen.

Press the key ESC 5 times to enter the password.



Language English



Select the display language among:

- italiano;
- english;
- deutsch;
- dedisch,francais;
- espanol.

Press to scroll the menu entries.

Press to exit the menu.

Set the coffee boiler temperature from 80° to 96°C (176°-205°F).

Boi I er





Press to scroll the menu entries.

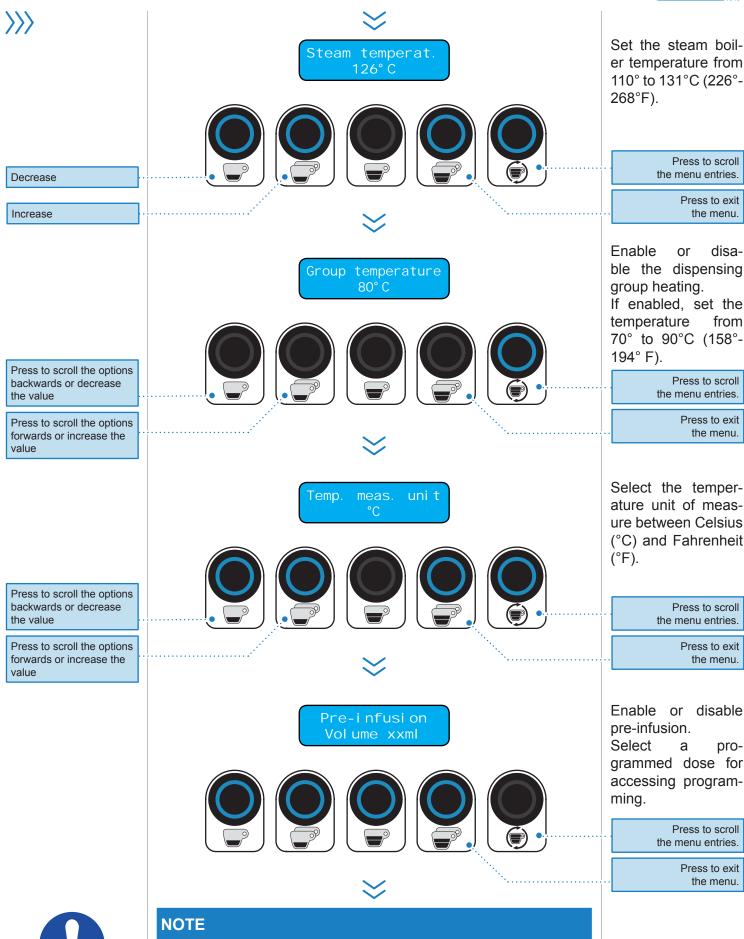
Press to exit the menu.



Decrease

Increase





After having selected a programmed dose, the other buttons turn off, but the programming functions (-, +, ESC, ENT) remain active.







Press to scroll the options backwards or decrease

Press to scroll the options forwards or increase the value

the value

Press to scroll the options backwards or decrease the value

Press to scroll the options forwards or increase the value

Press to scroll the options backwards or decrease the value

Press to scroll the options forwards or increase the value



Press to scroll the options backwards or decrease the value

Press to scroll the options forwards or increase the value



Pre-infusion Volume 3ml











Press to scroll the menu entries.

Set water for pre-in-

fusion from 0 to 20

ml.

Press to exit the menu.

Set the pause time of pre-infusion from 1 to 10 seconds.

It enables or disa-

bles the dispensing group heating. If enabled, set the filter capacity from 1 to 99999 litres.













Press to scroll the menu entries.

> Press to exit the menu.

Water filter













Press to scroll the menu entries.

> Press to exit the menu.



If enabled, the relevant counter is shown and, when time has elapsed, the relevant alarm.



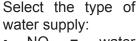
Tank NO











- NO water mains
- YES = tank

Press to scroll the menu entries.

> Press to exit the menu.







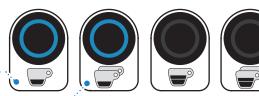




Empty boilers P1 Coff. P2 Stea Select a boiler to be emptied.

Press to confirm emptying of the coffee boiler.

Press to confirm emptying of the steam boiler





the menu entries.

Press to scroll

Press to exit the menu.

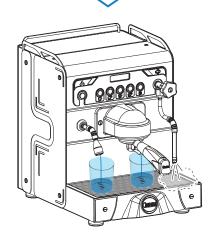
During boiler emptying, water is dispensed both from the group and the hot water wand.

Open also the steam

wand tap.

Prepare a suitable

Prepare a suitable container.

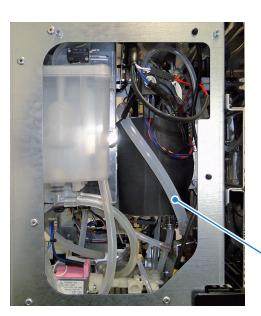




NOTE

To stop the emptying procedure, open the taps situated underneath the boilers.





Tap for boiler emptying



Procedure end Technical settings



Page intentionally left blank



MAINTENANCE

6.1	GENE	RAL MAINTENANCE WARNINGS	6.2
6.2	MAIN	TENANCE MANUAL	6.3
	621	Minimum stock	6.4



The purpose of these information is to extend the machine life through regular check-ups and replacement of worn components. The following table refers to a normal use of the machine (daily nominal cycle expected).

In case of a more or less intensive use, refer to our CARIMALI Service Centre.

6.1 GENERAL MAINTENANCE WARNINGS



DANGER

Before carrying out any maintenance work, switch the machine off and unplug it.



DANGER

If not requested by the maintenance procedure, disconnect the water connection to prevent possible damage due to water under pressure.

Furthermore, it is advisable to empty the coffee and steam boilers to work safely.



ATTENTION

When carrying out maintenance, only use compatible products (for example, food-grade grease) on the machine and in the surrounding area, to prevent any malfunctions and to avoid dispensing incorrect drinks.



DANGER

Risk of electric shock

Do not touch cables and electric elements with wet parts of the body.

Always comply with the safety provisions as per applicable standards.



DANGER

Risk of burns

Allow the hot parts to cool down before carrying our the maintenance operations.



DANGER

Risk of crushing

Pay attention to the movable parts inside the machine.



ATTENTION

For carrying out the maintenance operations, follow the hygiene standards set forth by HACCP.

For further details, refer to the relevant chapter contained in this manual.



6.2 | MAINTENANCE MANUAL

FREQUENCY	COMPONENT	NOTES	
	Screws and nuts of the frame.	Checking of damages due to transport. Possibility of blocking due to a prolonged storage.	
Before	Locking of the electronic board.		
installation	Flowmeter (96.05377).		
	Power cable.	Check the connector on the machine side and the plug on the socket side are deeply inserted to prevent overheating.	
2/3 weeks	Doses.	Check and correct if necessary.	
from installation	Dispensing group.	Daily thorough cleaning.	
Monthly	Procedure for manual group cleaning.	It is advisable to carry out a thorough manual cleaning of the above parts, as described in the manual. Replace the parts, if necessary.	
	Silicone hoses (coffee circuit) (84.00008; 84.00030).	Parts to be checked and to be replaced, necessary.	
Every 4 months	Coffee pump pressure.	Check pressures: • Rotary pump: 8-9 bar. For inspection, disconnect the boiler flow line and insert a pressure gauge with 20 bar full scale.	
	Doses.	Check settings and if necessary, correct.	
	Coffee dispensing group.	Check amount and quality of outgoing coffee.	
Every 12 months or	Steam safety valve (97.05024).	Replace.	
as noted	Rotary pump.	Replace (**).	
	(*) With the use of rated espresso coffee is mostly used for long beverages.	cycles. This interval may change if the machine	



6.2.1 | Minimum stock



NOTE

The amounts indicated in the table are calculated for only one machine. In presence of more machine, it is advisable to contact the Manufacturer for more detailed information.

CODE
16.05066
84.00008
84.00030
87.00087
88.00040
88.00041
96.05120
96.05377
95.01177
96.05151
96.05328
97.00097
97.00102
97.00103
97.00104
97.00105
97.05015
96.05457

DESCRIPTION	QUANTITY	NOTES
Joint Ø6 1/4M (2)	2	
Brown silicone hose	2 m	
Brown silicone hose	2 m	
Regulator gasket OR2056	25	Box of 25 pieces
Calibrated Teflon hose	2 m	
Teflon hose	2 m	
2-way solenoid valve	2	
Flowmeter	1	
3-way solenoid valve	1	
Calibrated temperature probe	2	
Pump	1	
Hose internal bush	6	
Seal ring	10	
Fastening nut	10	
Seal ring	25	Box of 25 pieces
Fastening nut	10	
Adjustable non-return valve	1	
Master board	1	



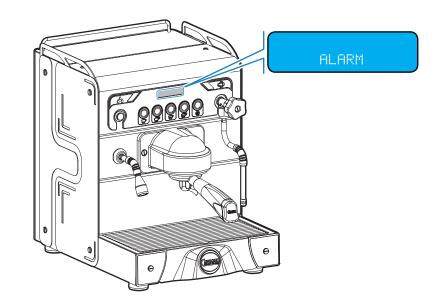
7

TROUBLESHOOTING

7.1	HOW TO DETECT AN ERROR	7.2
7.2	DEFINITION OF ERRORS AND ALARM LEVELS	7.2
72	ALADM MESSACES	7 2



7.1 | HOW TO DETECT AN ERROR





NOTE

The alarm messages are always visualised on the second line of the display.

7.2 DEFINITION OF ERRORS AND ALARM LEVELS

SYMBOLS
×
<u>^i</u>

LEVEL	DESCRIPTION	
LEVEL	DESCRIPTION	
High	Main problem for the machine.	
Medium-high	The problem can be solved and requires the switching off of the machine to restore normal operation.	
Medium-low	The problem can be solved and does not requires the switching off of the machine. The normal operation is restored by solving the problem.	
Low	Warning message for the operator.	
	Medium-high Medium-low	



7.3 **ALARM MESSAGES**

CURRUPTED DATA ALARM



CAUSE

When switching the machine on, the values set outside the parameters are detected.



CONSEQUENCE	INTERVENTION
The machine goes into OFF	 Carry out the parameter pre- set procedure. The long coffee key flashes to signal the completed reset.

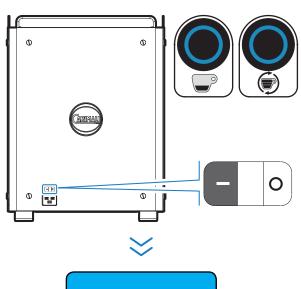
Preset procedure

NOTE



The preset procedure resets the default data settings.





To access the preset function, switch the machine on via the main switch and keeping pressed 1+ ENTER.



Press to scroll the

options.











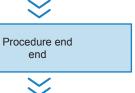
Press to confirm the selected option.

The display shows the preset screen:

Select the option YES and confirm by pressing ENTER.

NOTE

Wait for the completion of the automatic preset procedure.









TEMPERATURE PROBE ALARM





Coffee temperature probe

Steam Temp. Probe

Steam temperature probe alarm

Group Temp. Probe

Group temperature probe alarm



NOTE

The programming buttons blink.











CASE 1: Faulty temperature probe (measured 0 ohm)

CAUSE

The temperature probe is faulty and sends signals to the 0 ohm mother board (short circuit).

-	NCEA		
L.UI	NSEQ	$U \vdash D$	

INTERVENTION

Heating is interrupted and the dispensing buttons are disabled.

Switch the machine off and replace the probe.

Switch the machine on again.





CASE 2: Faulty temperature probe (measured 154 ohm)

CAUSE

The temperature probe is faulty and sends signals to the 154 ohm mother board (open circuit).

CONSEQUENCE	INTERVENTION
Heating is interrupted and the dispensing buttons are disabled.	Switch the machine off and replace the probe. Switch the machine on again.



ATTENTION

Regularly check the TRIAC electric wiring.

A wrong or incomplete wiring might cause the mother board damage.

FILLING ALARM COFFEE / STEAM BOILER



T.O. Boiler

Tank version



NOTE

It is shown automatically after 120 seconds from the alarm "NO $\mbox{H}_2\mbox{O.}$ "

No	water	in	the
	tank		

CAUSE

Heating disabled and machine in
OFF.
All of buttons flash.

CONSEQUENCE

INTERVENTION

Carry out the following operations:

- Fill the tank with fresh water;
- Check the water sensor.









CAUSE

- · After the preset procedure. boiler heating phase has exceeded 120 seconds.
- In case of norswitching mal on, the boiler heating phase has exceeded 30 seconds. In both cases, the

level probe (SLC) not

reached.

been

Water mains version

NOTE

It is shown automatically it the water level in the air break is not reached within 15 seconds.

CONSEQUENCE	INTERVENTION
The machine goes into OFF and the buttons blink.	 Carry out the following checking: The level probe (SLC) is dirty and therefore insulated from water; No water in the mains; Low water pressure; Motor pump fault; Filling solenoid valve fault; Wrong reading of the tank level sensor.





BOILER HEATING TIME OUT

CAUSE

- When starting for the first time or after a preset, the temperature set is not reached within 30 minutes.
- With the normal starting, the temperature set is not reached within 10 minutes.

NOTE

This kind of alarm is valid for heating of the steam/coffee boilers and the coffee group.

CONSEQUENCE	INTERVENTION		
Heating is interrupted. The buttons flash from left to right and vice versa.	Carry out the following operations:		













If the procedure is successful, the machine continues working properly and the boiler reaches the correct operating temperature.

WARNING

If the heating phase lasts more than 8 minutes after the machine restart, check the following:

- The operating conditions of the temperature probe;
- Fault of the temperature probe;
- TRIAC fault;
- Fault of the mother board.

PURIFIER FILTER REPLACEMENT



CAUSE

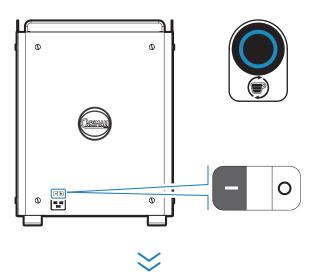
The flowmeter has reached the max. litres of water set as filter duration.

Water	fi l	ter	

CONSEQUENCE	INTERVENTION
The alarm is shown on the display.	Replace the filter with a new one and set the litre value.

Purifier filter setting procedure





Switch the machine on vie the main switch and keep pressed ENTER to access the machine configuration menu.



NOTE

Enter the password at the technician level (44444) to continue.



















Scroll menu entries up to water purifier one.

Press to scroll the menu entries.

Enable the water filter and set the filter capacity from 1 to 99999 litres.

Press to scroll the menu entries.



Water filter Off













ATTENTION

If enabled, the relevant counter is shown and, when time has elapsed, the relevant alarm.



Procedure end Purifier filter settings



FLOWMETER ERROR



GR2 flowmeter



Press to scroll the



CAUSE

The flowmeter does not send signals to the mother board for more than 5 seconds.

CONSEQUENCE

The button flashes and dispensing continues until 120-seconds timeout or after having pressed a dose key.

INTERVENTION

The alarm is reset automatically when the flowmeter restarts its normal operation.







NOTE

If coffee is dispensed continuously, use the machine as described in the manual.

Press the dose key to start dispensing and press the same key to stop dispensing.

Measure the amount dispensed in the cup.

If dispensing continues until the 120-second timeout, dispensing is interrupted and the display shows:

Infusion T. 0.

The message signals the timeout allowed for the flowmeter has been exceeded.

The machine stops dispensing automatically if the flowmeter counts 300 ml (anti-flood function):

When proceeding with next dispensing, if the drink is dispensed properly, this message is deleted.



ATTENTION

If the alarm is not reset, proceed as follows:

Carry out the following checking if coffee is not dispensed:

- No water from the mains;
- Clogged group;
- Faulty group solenoid valve;
- Clogged water inlet filters;
- Blocked flowmeter.

Carry out the following checking if coffee is not dispensed continuously:

- Faulty flowmeter;
- Wrong electrical connection.

STEAM TEMPERATURE ALARM







NOTE

This alarm may occur in case of:

- Steam boiler temperature > 133° C (271.4°F);
- safety Klickson intervention;
- · safety valve intervention;
- · faulty temperature probe.



NOTE

The anti-vacuum valve installed on the boiler serves to remove air in the loading stage and prevent the formation of vacuum during the heating stage within the boiler.









CASE 1: Steam boiler temperature > 133° C (271.4°F)

CAUSE

The inside temperature of the steam boiler has reached the value of 133° C (max. limit) or above.

CONSEQUENCE INTERVENTION

Heating is interrupted and the following buttons blink:

- short coffee;
- long coffee;
- · continuous coffee.

Switch the machine off and replace the TRIAC.
Switch the machine on again.

CASE 2: Safety Klickson intervention

CAUSE

The inside temperature of the steam boiler has reached the value of 145° C (293° F).

CONSEQUENCE INTERVENTION Heating is interrupted and the safety Klickson by

Heating is interrupted and the heating element is de-energized. The safety relicksoff by pressing the key in the middle of the thermostat.

CASE 3: Safety valve intervention

CAUSE

Steam boiler overpressure or safety valve fault.

CONSEQUENCE

upper part of the machine.

INTERVENTION

The safety valve opens at 2.8 • TR bar and releases steam in the • Ter

- Carry out the following checking:TRIAC operation;
- Temperature probe;
- · Safety Klickson;
- Master board.

CASE 4: Faulty temperature probe

CAUSE

Faulty temperature probe.

CONSEQUENCE

INTERVENTION

The machine goes into OFF. The display shows:

Steam Temp. Probe

Replace the temperature probe.







COFFEE GROUP TEMPERATURE ALARM



Over Temp. Group



NOTE

This alarm may occur in case of:

- Group temperature > 95° C (203° F);
- Faulty temperature probe;
- Group heating element continuously powered.

CASE 1: Group temperature > 95° C (203° F);

CAUSE	CONSEQUENCE	INTERVENTION		
The temperature of the coffee group has reached the value of 95° C or above.	Heating is interrupted and the following buttons blink: • short coffee; • long coffee; • continuous coffee.	Switch the machine off and		
	CASE 2: Faulty temperature probe			

above.	• continuous conee.	Switch the machine on again.	
	CASE 2: Faulty temperature probe		
CAUSE	CONSEQUENCE	INTERVENTION	
Faulty temperature probe.	The machine goes into OFF. The display shows: Group Temp. Probe	Replace the temperature probe.	
	CASE 3: Group heating element continuously powered.		
CAUSE	CONSEQUENCE	INTERVENTION	
The master board does not disable power supply to the heating element, which is powered beyond the temperature limit.	The machine goes into OFF.	Check proper operation of the master board and replace, if necessary.	







COFFEE TEMPERATURE ALARM



Over Temp. Coffee



NOTE

This alarm may occur in case of:

- Coffee boiler temperature > 105° C (221° F);
- safety Klickson intervention.

CASE 1: Coffee boiler temperature > 105° C (221° F)

CAUSE

The inside temperature of the steam boiler has reached the value of 105° C (max. limit) or above.

CONSEQUENCE INTERVENTION

Heating is interrupted and the following buttons blink:

- short coffee;
- long coffee;
- continuous coffee.

Switch the machine off and replace the TRIAC. Switch the machine on again.

CASE 2: Safety Klickson intervention

CAUSE

The inside temperature of the steam boiler has reached the value of 120° C (248° F).

CONSEQUENCE	INTERVENTION
Heating is interrupted and the heating element is de-energized.	

CASE 3: Electric fault

CAUSE

The mother board does not power the heating element properly.

CONSEQUENCE	INTERVENTION	
No heating. The machine goes into OFF.	Check operation of the TRIAC on the mother board and replace, if necessary.	







FULL DRIP TRAY ALARM



Water waste full

	CAUSE	CONSEQUENCE	INTERVENTION
_	x. level of the iin tray capacity reached.	Dispensing buttons disabled.	Empty the drip tray. If the message remains on the display, clean the drip tray sensors.



Page intentionally left blank



Carimali S.p.A.

single member company Via Industriale, 1 Chignolo d'Isola (BG) 24040 - ITALY

+39 035 905447 info@carimali.com

carimali.com

