

## USE

## TABLE OF CONTENTS

	Page
1. Description of the control panel	38
2. Daily powering	39
3. Dispensing of beverages - coffee	39
3.1 Dispensing of beverages - cappuccino / milk	40
3.2 Dispensing of beverages - hot water / steam	41
4. How to use the cappuccino maker	42
5. Cup tray - Cup warmer tray	42
6. Cleaning operations	43
7. Caution	45
8. Check Control Messages	46
9. Anomalies	47

### Certification for materials in contact with food used in CIBALI products

We, GRUPPO CIBALI S.P.A. hereby certify that the cleaning materials (used as specified in the manual) and the materials used in our products in contact with food, are suitable for foodstuff or substances for personal use, in compliance with law 89/109/CEE.

### CE Declaration of conformity

According to the EC Directives

We, GRUPPO CIBALI S.P.A. hereby declare that the design and construction of the machines designated below, are conform to the relevant safety and health requirements of the EC Directive.

This declaration shall not apply to machines modified without constructor approval.

Machine type: refer to machine data

Machine number: refer to machine data

Relevant EC Directives: 98/37/CE  
73/23/CEE, 93/68/CEE  
89/336/CEE  
97/23/CE

EC Machinery Directive  
EC Low Voltage Directive  
EC Electromagnetic Compatibility Directive  
Pressure Equipment Directive (PED)

Applied harmonized Standards: EN 292-1, EN 292-2, EN 55014,  
EN 60335-1, EN 60335-2-75, EN 61000-3

Description pressure equipment:

	P <sub>max</sub>	T <sub>max</sub>	Fluid	Capacity (L)			
				M2			
Service boiler	2 bar	133° C	water/steam	3			
Heat exchanger	12 bar	170° C	water	0,14			

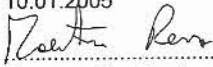
Source of applied standards: Via A. Manzoni 17, Binasco (Mi), Italy

Date: 10.01.2005

Signature:

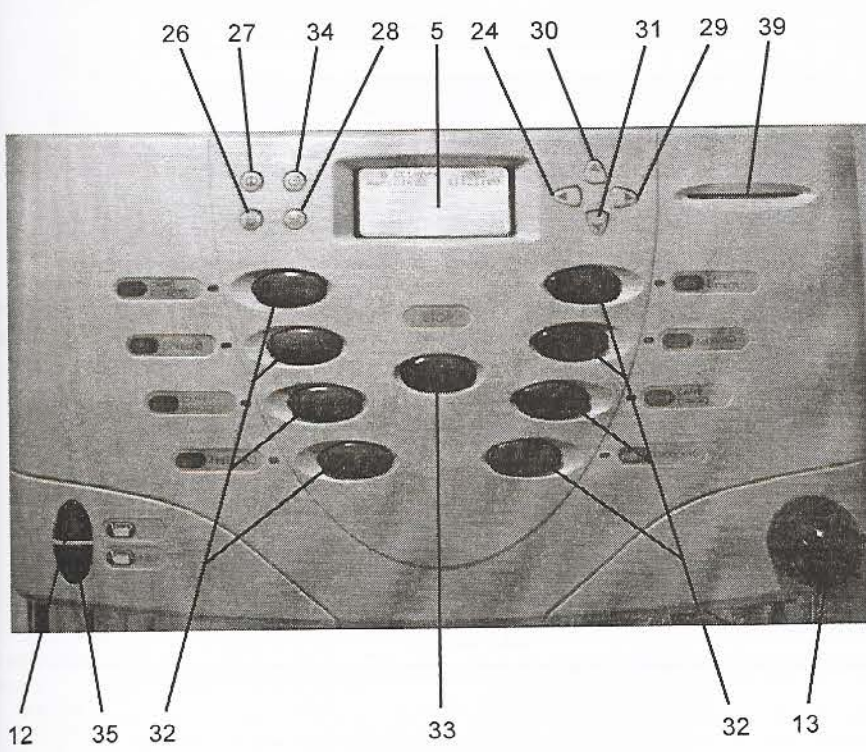
  
Development and Prod. Manager

10.01.2005

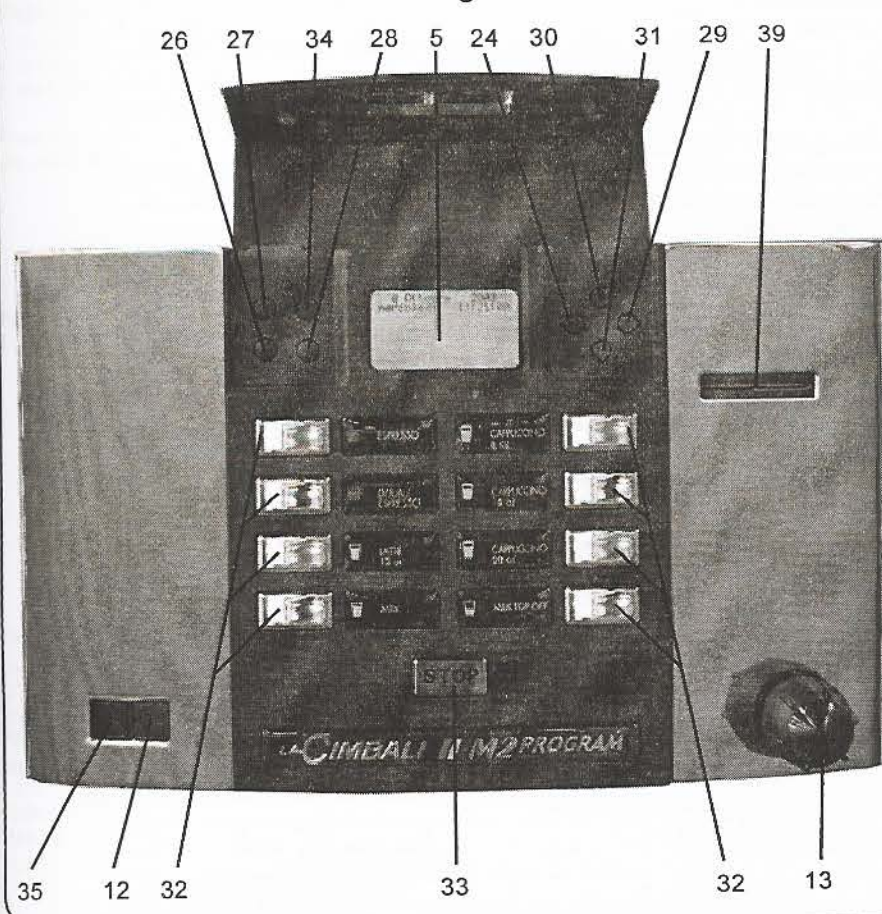
  
Manager Quality Assurance

### 1. Description of the control panel - Keyboard

#### M2 Barsystem



#### M2 Program



#### DESCRIPTION OF THE COMPONENTS

- 5 Graphical display
- 12 Hot water button
- 13 Steam dispensing knob (Turbosteam selector \*)
- 24 "RES" key (to quit programming mode/confirm data)
- 26 Coffee circuit flushing key / short washing
- 27 "i" key (displays the number of cycles)
- 28 Milk circuit wash key - automatic wash
- 29 "PRG" key (to access programming mode/menu)
- 30 "+" key (to modify parameters/clock)
- 31 "-" key (to modify parameters/clock)
- 32 Beverage selector key
- 33 "STOP" button (stops products from being dispensed)
- 34 "CUSTOMER PARAMETERS" key
- 35 Hot water "STOP-CONTINUOUS" key
- 39 Card services slit (technical programming)



"Before that t that t

**MANUAL POWER**  
Set in action the m  
message will appe

08 Se  
wedn  
  
\*\*\*\*\*  
  
\*\*\*\*\*

The message "M  
messages of war



**GENERAL INFOR**  
Place the cup (or  
Adjust the height  
Press the coffee  
led of the selected  
Dispensing stops

**Delivery of p**  
**automatic dos**  
After having po  
decaffeinated coff  
coffee into the tub  
leds relative to th  
display panel (3)  
Press one of th  
corresponds to th  
Delivery terminate

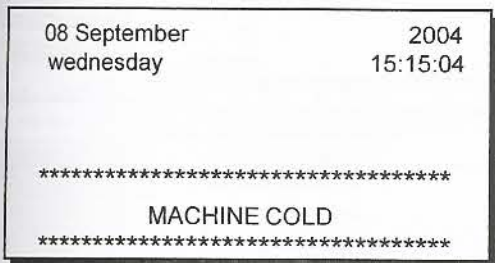
### 2. Daily powering



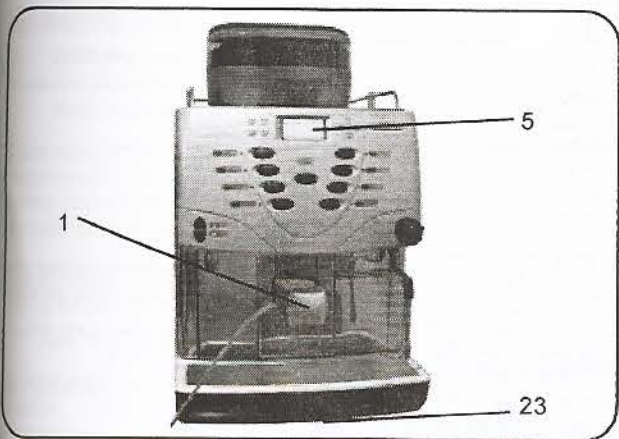
“Before setting the machine at work, make sure that the main electric power switch is on and that the mains water cock has been turned on”.

#### MANUAL POWERING

Set in action the main switch (23) to turn on the machine. The following message will appear on the display (5):

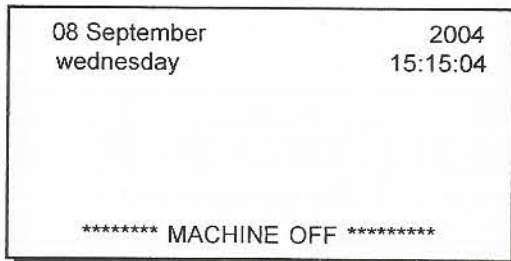


The message "Machine cold" is alternated to other eventual messages of warning (ex. "no coffee sx", "no coffee dx", etc).



#### AUTOMATIC SWITCH OFF (see service time menu)

The machine executes a short washing cycle and then it switches off automatically to the programmed timetable. During the phase of switch off, on the display it comes visualized the below message.



N.B. When the machine is working in the automatic on/off function do not use the general switch (23) to switch off the machine. If this happens, the machine will not be able to switch on again automatically.

#### AUTOMATIC SWITCH ON

The machine switches on automatically at the programmed time. The messages displayed and the operations performed by the machine are the same as those described in the paragraph "MANUAL SWITCH ON". A short washing cycle is also performed automatically.

#### FORCED SWITCH ON

Press the STOP key for a few seconds to force the machine on again.

N.B. Forcing the machine on does not change the programmed on/off times.

N.B. At this point the machine will remain on until the next switch off time is reached.

To immediately return the machine to "off" as originally programmed, switch it off and on again using the general on-off switch (23).

### 3. Dispensing of beverages - coffee

#### GENERAL INFORMATION

Place the cup (or cups) under dispenser (1) of the required group. Adjust the height of the dispenser (1) if necessary. Press the coffee dispensing key relative to the selected dose. The led of the selected key lights up and dispensing commences. Dispensing stops automatically.

#### Delivery of powdered coffee for machines without automatic dosers

After having positioned the cup under the spout, open the decaffeinated coffee panel (18) and measure out a dose of powdered coffee into the tube and close the powdered coffee panel (18). The leds relative to the keys programmed for one cup located on the display panel (3) will flash.

Press one of the keys associated to the flashing leds that corresponds to the desired dose. Delivery terminates automatically.

#### Coffee STOP function

This stops coffee dispensing before the programmed dose has been reached.

NOTE: use of the STOP button will not modify the programmed parameters.

#### SECTION REPETITION Function

The repeat selections function can be programmed in the following way. Press any one of the selection keys and after about 3 seconds press the same key again for the number of dispensed drinks required. The number of dispensed drinks programmed is indicated on the top left of the display. Press the STOP (33) key and keep pressed for about 3 sec. to reset.

NOTE: These functions are deactivated when error messages and/or codes are displayed.

## Dose adjustment

*Dose adjustment: coffee versions*

The dose in the cup can be adjusted, if necessary, by turning the screws (E).

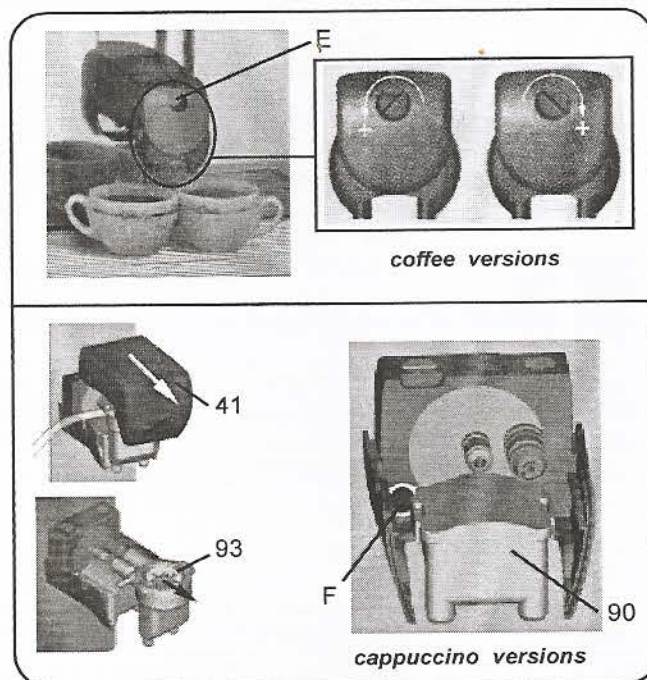
*Dose adjustment: cappuccino versions*

In tall versions, adjustments are made as follows:

After removing the lid (41) and the cappuccino unit (93), loosen the screw (F), adjust the coffee spout casing (90), then tighten the screw (F).

In particular:

- Turn the screw (E) or the coffee spout casing (90) counterclockwise to increase the amount in the left cup.
- Turn the screw (E) or the coffee spout casing (90) clockwise to increase the amount in the right cup.



## 3.1 Dispensing of beverages - cappuccino / milk

## GENERAL INDICATIONS

Milk is a delicate biological product and can easily deteriorate. Heat modifies its structure. Milk must be kept at a storage temperature no higher than 5°C (41°F) from the moment the container is opened and throughout its entire period of use. Our storage appliances are suitable for this purpose.

NOTE: at the end of the work day (or not more than 24 hours from the time the container is opened), any remaining milk must be discarded.

## Preliminary operations

Insert the tube (40) of the dispenser (1) into the milk container. Place the cup (or cups) under the dispenser (1). If necessary, adjust the dispenser height, using the keys (2).

## Cappuccino dispenser

Press the cappuccino dispensing button corresponding to the required dose. The led in the selected button will come on and dispensing will begin. Dispensing will stop automatically. Dispensing can also be interrupted by pressing the "STOP" key. If the milk and coffee are poured into the cup simultaneously, the "STOP" key needs to be pressed once only to stop dispensing. If the milk and coffee are not poured into the cup simultaneously, when the "STOP" key is pressed the liquid currently being dispensed will stop. When the "STOP" key is pressed a second time the next dispensing phase will be stopped.

## Delivery of cappuccino with powdered coffee for machines without automatic doser

Open panel (18) and measure out a dose of powdered coffee into the tube and close the powdered coffee panel (18). The leds relative to the keys programmed for one cup located on the display panel (3) will flash.

Press one of the keys associated to the flashing leds that corresponds to the desired dose.

Delivery terminates automatically.

## Milk dispenser

Press the milk dispensing button corresponding to the required dose. The led in the selected button will come on and dispensing will begin. Dispensing will stop automatically. Dispensing may be interrupted by pressing the "STOP" key.

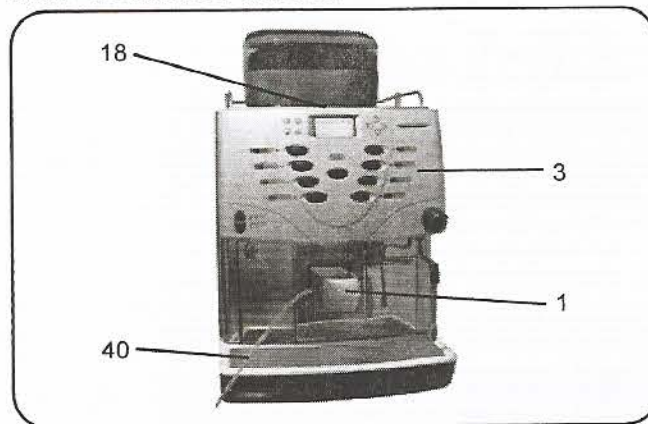
## OPTIONS

The options indicated in section "3. Coffee dispensing" are available.

The technician who installs the machine can also be asked to personalize the cappuccino buttons in the following ways:

- milk dispensing before the coffee or vice versa (only when cappuccino is dispensed);
- plain milk (without froth).

Proceed as explained in section "How to use the cappuccino maker" to obtain hot or tepid milk.



HOT WATER  
Place the a

Dispensing  
Press one  
the desired  
The program  
and will stop  
N.B. Dispense  
key (35).  
Pressing the  
rameters se

STEAM: GE  
Fully immerse  
the beverage

Dispensing  
Turn the steam  
Wait until the  
Stop the steam  
opposite dir

Note: At the  
inside  
Turn the  
steam

Dispensing  
Machines eq  
system have  
reached" fun

Select the ty  
- using the b  
- using the M

When the se  
stopped:  
- automatic  
- manually, p  
direction.

For more info  
manual.

### 3.2 Dispensing of beverages - hot water / steam

#### HOT WATER: GENERAL INSTRUCTIONS

Place the appropriate container under the hot water dispenser (14)

#### Dispensing with automatic dosing

Press one of the hot water dispensing keys (12) corresponding to the desired dose.

The programmed dose of hot water will pour from the dispenser (14) and will stop automatically.

N.B. Dispensing may be stopped by pressing the HOT WATER STOP key (35).

Pressing the HOT WATER STOP key (35) does not change the parameters set during the programming phase.

#### STEAM: GENERAL INSTRUCTIONS

Fully immerse the steam dispenser tube (15) into the vessel containing the beverage that needs to be heated.

#### Dispensing through the tap (13)

Turn the steam tap knob.

Wait until the beverage has reached the required temperature.

Stop the steam dispenser by turning the knob of the steam tap in the opposite direction.

Note: At the conclusion of each steam dispensing phase, clean the inside of the steam nozzle as follows:

Turn the nozzle towards the cup tray and carefully activate steam dispensing at least once.

**Dispensing with the Turbosteam selector (13) (when provided)**  
Machines equipped with the TURBOSTEAM (STOP STEAM) dispensing system have the "stop steam dispensing when set temperature is reached" function, and can rapidly heat and froth milk.

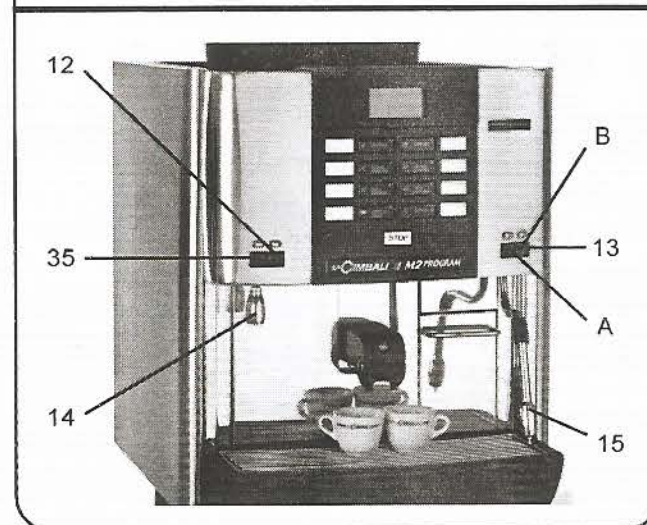
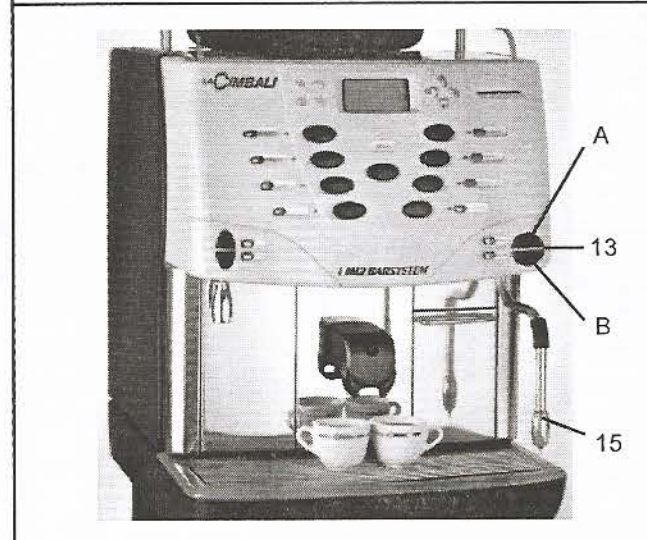
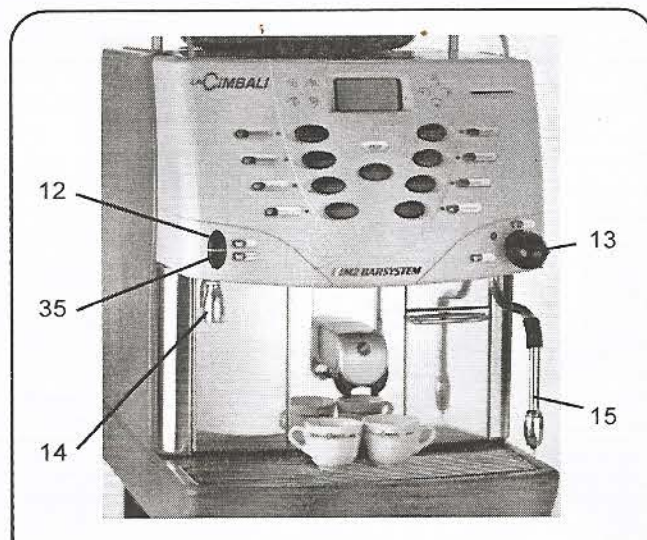
Select the type of milk you desire:

- using the buttons A (frothed) or B (hot);
- using the knob, clockwise (hot) or counter-clockwise (frothed).

When the set temperature is reached, steam dispensing can be stopped:

- automatically;
- manually, pressing buttons A or B again, or turning the knob in any direction.

For more information on the function, please consult the engineer's manual.



#### 4. How to use the cappuccino maker

Insert the tube (40) into the milk container.  
Place a vessel under the dispenser (1).  
Proceed with the distribution of milk or cappuccino pressing the wished key.

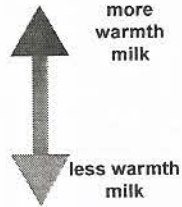
##### Cappuccino temperature

The temperature of the cappuccino can be regulated through the assembly of various milk connectors:

white connector: smaller diameter

red connector: intermediate diameter

yellow connector: greater diameter



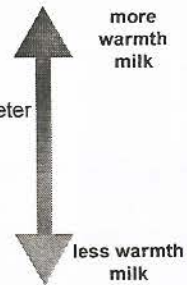
or, in some product configurations:

white connector, green OR: smaller diameter

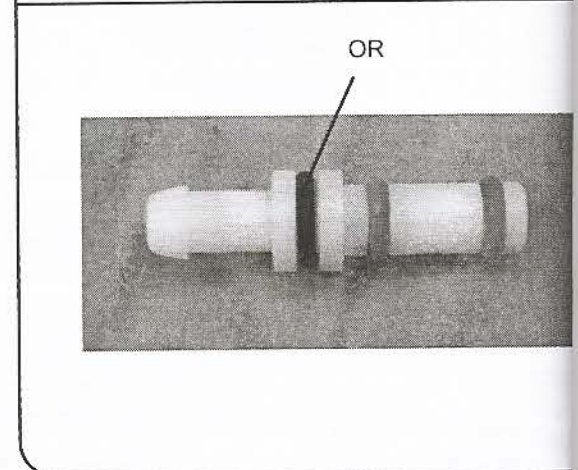
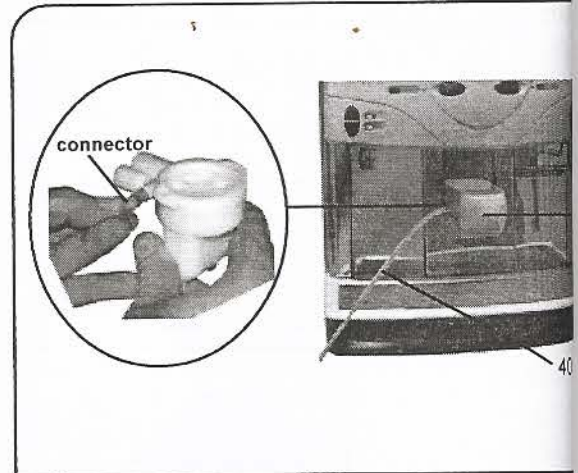
white connector, without OR: intermediate diameter

white connector, red OR: intermediate diameter

white connector, black OR: greater diameter



For further information about the milk connector, please consult the attached specific leaflet.



#### 5. Cup tray



**CAUTION:** do not put any cloth on the cup-tray.

The machines have a cup tray (9) which can be used to store the cups.

Only place cups and glasses used with the coffee machine on the cup tray (9). **No other objects must be placed on the tray (9).** Thoroughly drain the cups before placing them on the tray (9).





## 6. Cleaning operations



For correct application of the HACCP system, please follow the instructions in this paragraph.

### MILK CIRCUIT AND COFFEE CIRCUIT CLEANING CYCLES

The purpose of the flushing cycle is to remove all traces of grease and scaling deposited when the milk is conveyed and emulsified and when the coffee is dispensed.

Failure to flush out the circuit will allow these deposits to solidify. This will impair the qualitative performance of the cappuccino maker (1) and of the coffee circuit.

**NOTE:** the following operations must be carried out when the machine is on and pressurized.

**ATTENTION, RISK OF SCALDING:** hot water, steam and milk residues will spill out when the spouts of the cappuccino maker/dispenser spout (1) are flushed. Keep the hands and all other parts of the body well away until the cleaning cycle has terminated.

### MILK CIRCUIT AND COFFEE CIRCUIT WASHING CYCLES

The milk circuit and the coffee circuit can undergo several types of washing cycles:

#### Daily wash cycle at set hour

**Function** - The message "EXECUTE WASHING MILK CIRCUIT" in alternation "EXECUTE WASHING GROUP" appears on the display at the set hour (consult the "Customer programming - Service time menu" paragraph).

**Activation** - *milk circuit:* through key (28) on the selection keypad. The message "MILK WASHING" appears on the display.

*Coffee circuit:* with the modalities described in "AUTOMATIC WASH WITH DETERGENT TABLET". The message "GROUP WASHING" appears on the display.

**Selection block** - *milk circuit:* 60' function from the hour set if wash cycle has not taken place, with the "Block milk circuit" function set (YES).

*Coffee circuit:* 60' (30' if short washing) from the hour set if wash cycle has not taken place, with the "Block coffee circuit" function set (YES).

**Wash type** - *milk circuit:* with water and steam, and with an external detergent in the place of the milk.

\* *Coffee circuit:* with detergent tablet inserted in the decaffeinated coffee panel (18)

For "CAPPUCCINO MAKER" cleaning instructions and methods, please consult the specific leaflet.

#### \*AUTOMATIC WASH WITH DETERGENT TABLET

To be performed at the end of the working day or when requested by the machine.

The machine will issue a message on the display "Perform wash cycle" together with an acoustic signal.

This will be repeated until the operation is performed.

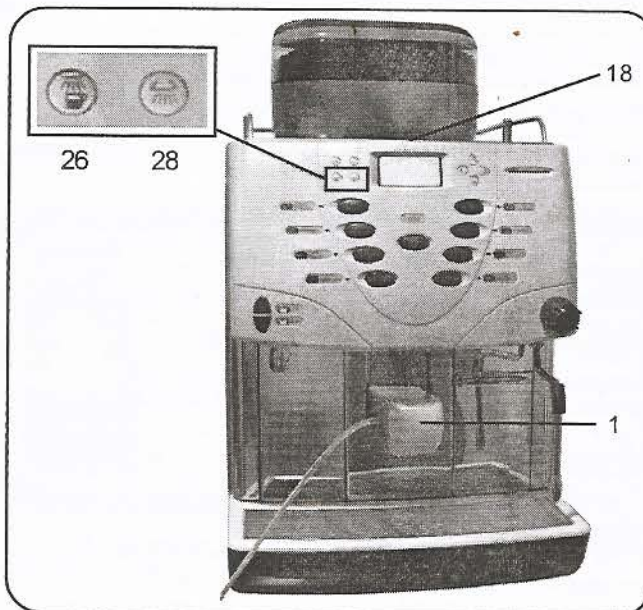
To perform the wash cycle, follow this procedure:

- 1) Open the decaffeinated coffee panel (18) and insert a tablet.
- 2) Close the panel (18).
- 3) Keep the coffee circuit wash key (26) pressed until the message "Group washing" is displayed.
- 4) Wait until the machine finishes the automatic wash cycle (approximately 8 minutes).

**N.B.** Once the wash cycle is underway, it CANNOT be stopped, even if the machine is switched off.

If there is a power failure, when power is returned the message "Press WASH" will be displayed. To continue, press key (26) to complete the cleaning cycle.

Programmed wash cycles that are not effected will be memorized by the machine.



#### Automatic wash (if programmed)

*only for machines with cappuccino maker*

**Function** - after each milk cycle has terminated, the timer count-down starts (from 10 to 99 minutes, OFF disabled function). At the end, "AUTOMATIC WASHING" appears on the display, with the time remaining before the wash cycle begins.

**Activation** - activation is automatic at the end of the remaining 30" seconds. During this stand-by time:

if the coffee dispensing key is pressed, the timer count-down will start again from 30" seconds before the end of the dispensing cycle;

if the milk/cappuccino dispensing key is pressed, the timer count-down will start from the set up time (10'+99').

If the (28) key is pressed, the automatic wash cycle will be performed immediately.

**Selection block** - always inactive. The wash cycle is performed even if the user does not intervene.

**Wash type** - with water, completely automatic.

For more details, please consult the technical manual at the "Configuration menu - wash options" paragraph.

When the machine is blocked, and the following message appears on the display:

```
*****
MACHINE LOCKED
WASH
*****XXXXXX*****
```

When the key corresponding to the wash requested in the message (key 26 or key 28), the wash cycle is activated and the machine is unblocked.

**Note:** If no wash cycle messages appear and the machine is used frequently, the wash cycle can be performed at any time:

- milk circuit washing cycle: pressing the (28) key
- short washing cycle: pressing the (26) key
- coffee circuit washing cycle: with the modalities described in "AUTOMATIC WASH WITH DETERGENT TABLET"



## 6. Cleaning operations

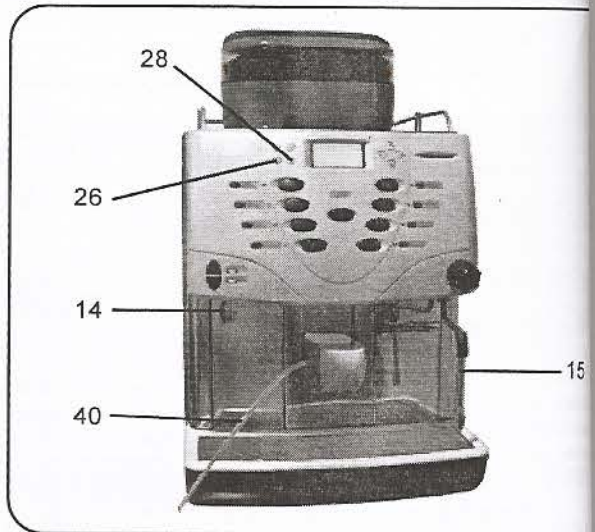
### STEAM TUBE (15/15a) AND HOT WATER DISPENSER (14)

Wash with hot water and a clean cloth or sponge, removing all organic matter.

Thoroughly rinse.

Clean up the inner part of the steam dispenser operating in the following way:

direct the tube towards the cup tray, and paying particular attention, allow the steam to flow at least once.

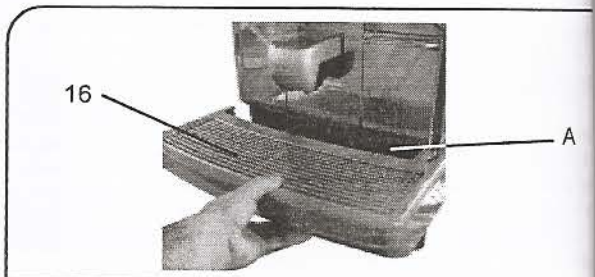


### CUP TRAY (16)

At the end of each work day, pour a jug of hot water into the tray (16) to remove any scaling in the outlet.

It is also possible the total removal of the tray, for a more deepened cleaning of the vain inside (A).

Do not use abrasive products.



### EXTERNAL PARTS

Clean with a soft cloth and products that DO NOT CONTAIN ammonia or abrasives. Eliminate all organic residues from the work area.

NOTE: do not spray cleaning liquids into the slots in the panels.

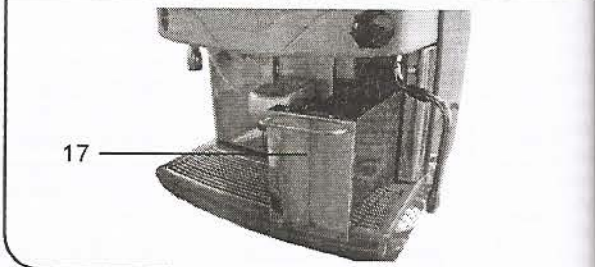
### COFFEE GROUND TRAY

Remove the coffee ground tray (17).

Empty it out and wash it under running water.

Thoroughly clean the zone where the tray (17) is housed using a damp cloth. Remove any coffee grounds.

Fit the coffee ground tray back.



#### CAUTION

When the machine has not been used for more than 8 hours, and in any case once a day, the internal components must be washed before use, in accordance to the following instructions:

#### Coffee circuit

Keep the coffee circuit wash key (26) pressed for a few seconds.

#### Hot water

Dispense hot water repeatedly (using the relative command) until at least 2 liter of water have been dispensed from the machine.

#### Steam

Allow the steam to flow through the nozzles for approximately one minute, using the appropriate commands.

**Milk circuit:** Remove the tube (40) from the milk container and press the milk wash key (28).

N.B. Follow the instructions contained in this manual to perform the various operations.



## 7. Caution

**Danger of burns**

The areas marked with this sign become hot. Great care should be taken when in the vicinity of these areas.



**WARNING:** Hot surface  
**ACHTUNG:** Heisse Oberfläche  
**ATTENTION:** Surface chaude  
**ATTENZIONE:** Superficie calda

**GENERAL**

The manufacturer disclaims all liability for damages to items or persons due to improper use or due to the coffee machine being used for reasons other than its intended use.

Never work the coffee machine with wet hands or naked feet.

**Cup-warming plate**

Place only coffee cups, cups and glasses to be used in conjunction with the coffee machine on the cup-warming plate.

Ensure that the coffee cups are completely drained before placing them on the cup-warming plate.

No other objects shall be placed on the cup-warming plate.

**MACHINE CLOSE-DOWN**

When the machine remains unattended for a long period of time (at night, during the weekly closing day or during holidays) the following operations shall be performed:

- Remove the plug or switch off the main switch.
- Close the water tap.

Non-compliance with these safety measures exonerates the manufacturer from all liability for malfunctions or damage to persons or items.

**Danger of Burns**

Do not place the hands or other parts of the body close to the coffee distribution points, or near to the steam and hot water nozzles.

Ensure that the machine is not handled by children or persons who have not been instructed in its correct use.

**MAINTENANCE AND REPAIR**

If the machine does not function correctly, switch it off, turn off the main switch and call the service agent.

Only qualified and authorised servicing personnel should be called.

Use only original spare parts.

Maintenance activities performed by unqualified personnel may jeopardise the safety of the machine.

If the electric cable is damaged, switch off the machine and apply to the servicing department for a replacement.



The following measures are indispensable for ensuring operational and functional safety:

- Comply with all the manufacturer's instructions.
- Ensure that specialized technicians periodically verify that the protection devices are intact and that all the safety devices function correctly (the first inspection should be made within 3 years and subsequently once yearly).

**Water softener regeneration**

The machine must be installed with an ionic resin water softener. The water softener may be of different types, with different resin capacity and autonomy.

If the message "Perform resin regeneration" is displayed, place a quantity of coarse kitchen salt or salt pastilles in the water softener. After having performed the resin regeneration, press key (24) "RES" and keep pressed for approximately 8 seconds until the message on the display is eliminated.

If regeneration is not performed at the set times, calcareous deposits are formed which progressively diminish the machine's performance until the functions are blocked.

See the instructions provided with the appliances for periods of time between one regeneration and another and for the description of the regeneration method.

Regeneration at the set times keeps the machine in ideal working conditions.

**DISMANTLING THE MACHINE**

To protect the environment, please proceed in compliance with the local laws in force.

When the machine can no longer be used or repaired, dismantle the parts for recycling and disposal.

## 8. Check Control Messages

The check-control messages are divided into two groups:

1. **Messages in explicit mode:** they position on the last line at the bottom of the Display (5). They are cancelled on each new cycle and they appear again if the cause that generated them returns
2. **Messages in code:** these appear in the top right-hand corner with the following syntax: **Exxx**

where:

E indicates an error;

xxx represents the error code of the unit.

When there are several errors, their representation is timed, passing in succession on the display.

For more details, please consult the technical manual at the "Configuration menu - Defect - Malfunctions".

### Messages in explicit mode

MESSAGE	POSSIBLE CAUSES: when the message is visualized	VERIFICATIONS
Machine cold	1. This message will appear on the display every time the machine is turned on until the service boiler pressure falls below the pre-set working pressure. When the service boiler reaches the pre-set pressure, the message automatically disappears. 2. Whether the service boiler cannot reach the set working pressure because of a problem, this message will be integrated with the message in code identifying the component that caused that problem.	2. Consult the technical manual and refer to the specific error code which will be flashed on the display to solve the problem
No coffee (SX/DX)	The right, left or both hoppers are almost empty.	Fill in the hopper with coffee beans.
Grounds drawer full	This message means that the coffee ground drawer is full. 10 more coffee selections (or 5 double dose) may be made (coffee-based drinks) before the machine is blocked and the following message is then displayed.	Empty the drawer to reset the counter or wait until when the machine will display the message 'empty drawer'. Consult the technical manual to program the number of grounds to the attainment of which the message will be visualized.
Empty drawer	The machine counts in decreasing order the pre-set maximum grounds number. This message means that that value run out. The machine is blocked and no coffees can be delivered.	Remove the coffee grounds drawer. Empty the drawer and replace it in the correct position. Close the panel. During this operation the message 'Groun. Draw. Removed' will be displayed.
Grounds drawer removed	This message always appears when the back side of the drawer is not in contact with the micro-switch reed.	If this message appears when the drawer is inserted, check the drawer is correctly positioned so as to be in contact to the reed. Replace the micro-switch reed whether it malfunctions.
Boiler filling	This message is displayed when the machine is filling the boiler	This operation is performed automatically and requires no action by the user. This operation does not impede the hot water delivery.
Service needed	This message is displayed when the machine requires the periodic maintenance intervention. In order to eliminate temporary the message, keep pressed RES key for approximately 8 seconds. The message will reappears in the successive relighting of the machine with the main switch.	Contact the authorized technical department. The message will be displayed until the service will be carried out. (Refer to the Technician's Manual).
No milk	The message is displayed only if the machine is connected to a 'Fresh Milk' and indicates that there is no milk in the refrigerator tank.	Re-fill in the refrigerator tank.
Softener	This message is displayed when the softener resins need to be regenerated. (Follow the instructions on softener maintenance).	Once regeneration has been completed, keep the RESET key pressed for few seconds to cancel out the message.
Machine in stand-by	This message is displayed when the machine switch ON/OFF has been programmed. The message indicates that the machine is switch-off and is in stand-by status.	Refer to the Technician's Manual to see how to program the switch ON/OFF of the machine.
Messages about washings		Please consult this manual at the "Cleaning operations".

## 9. Anomalies

### Customer interventions

Before calling the servicing department, verify whether the problem encountered with the machine is described herebelow in order to avoid unnecessary expenses:

ANOMALIES	CAUSE	REMEDY
The coffee machine does not function and the display (5) is off.	No electricity.	Check that the electricity is on. Check the position of the main switch (23).
Water leak in the cup-warmer tray (16)	Clogged basin hole.	Clean
Coffee dispensing time too short.	Coffee ground too coarse. Coffee too old.	Use a finer grind. Use new coffee.
Coffee drips out of machine.	Coffee ground too fine.	Use a coarser grind.
Loss of water under the machine.	Discharge well clogged up. Clogged drainage basin	Clean.
Machine heated up, but it does not dispense coffee.	Water supply or water softener tap closed. No water in system.	Open. Wait until water is available or call a plumber.
The automatic level control devices remain in operation.	Same causes as above.	Same solution as above.

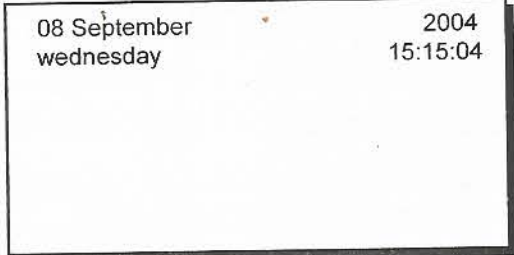
# CUSTOMER PROGRAMMING

## TABLE OF CONTENTS

	Page
1. Clock adjustment	50
2. Meter display and reset	50
3. How to access programming mode	50
4. Service time menu	52
5. Language selection	52

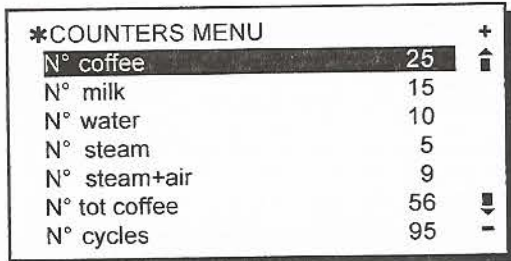
### 1. Clock adjustment

Use the "+" (30) and "-" (31) keys to adjust the clock.  
 The time increases (or decreases) one minute each time the key is pressed.  
 The time changing speed increases if one of the keys (30 or 31) is kept depressed. The date setting will change whenever the time setting indicates "00:00".



### 2. Meter display and reset

Press key "i" (27) to display the meters.  
 The following message will appear on the display (5):



To access the various menus, position the cursor on the interests you, using the "+" (30) or "-" (31) keys.

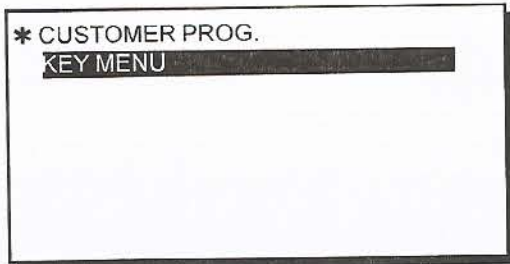
Press the "PRG" (29) key and then press the "+" (30) and "-" (31) keys to reset the number. The meter will be reset.

When the "RES" (24) key is pressed, zeroing is confirmed: number of coffees, the total value for the MSx grinder, the total value for the MDx grinder, the number of cycles and the hours of life cannot be zeroed.

Press the "RES" (24) key to return to the main menu.

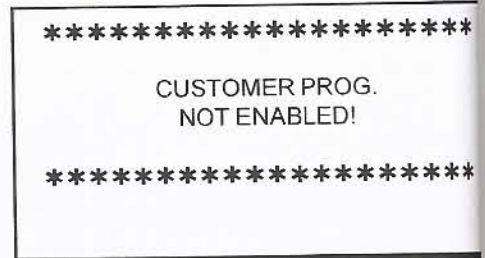
### 3. How to access the programming mode

**N.B. ONLY** if the item "Customer Progr." is set on "YES".  
 To access programming press the "PRG" (29) key; the following message will appear on the display:



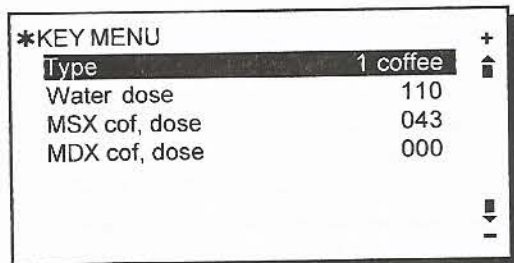
Press the "RES" key (24) to quit the programming phase.

If the "Customer Progr." is set to "NO", the following message will appear on the display:



#### 3.1 Key menu - Coffee selection

Press one of the coffee dispensing keys (32) (the relative led will remain on). The following message will appear on the display:



The following coffee selection parameters can be modified:  
 - water dose (volumetric dispenser impulses);  
 - coffee dose... (coffee dose grinde ...impulses).

The dose for making a cup of coffee can be composed of water taken from both hoppers, which has the advantage of being needed for grinding.  
 The dose setting for both grinders has a field range of ±10% value set in the technical programming menu.

Example

<i>technical programming</i>	<i>customer programming</i>
coffee dose MSx 045	coffee dose MSx 038
coffee dose MDx 020	coffee dose MDx 010

### 3.2 Key menu - Cappuccino selection

Press one of the cappuccino dispensing keys (32) (the relative led will remain on). The following message will appear on the display:

* KEY MENU	
Type	1 cappuccino
Milk dose	04.0
Emulsion	03.0
Water dose	110
MSX cof, dose	043
MDX cof, dose	000

The following cappuccino selection parameters can be modified:

- milk dose (milk dispensing time);
- emulsion (foamed milk dispensing time);
- water dose (volumetric dosage pulses);
- coffee dose... (coffee dose grinde ...impulses).

The dose for making a cup of coffee can be composed of grounds taken from both hoppers, which has the advantage of less time needed for grinding.

The dose setting for both grinders has a field range of  $\pm 10$  of the value set in the technical programming menu.

### Grindind variation

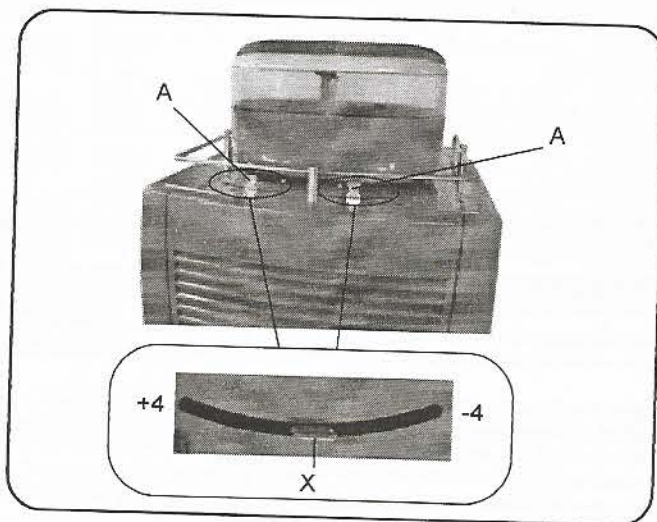
The machine is equipped with devices that permit grinding variations without having to dismantle the panels on the machine body.

To modify grinding parameters, adjust the devices behind the hoppers at the rear of the machine:

- raise mechanism A
- turn it clockwise if you want a finer grind, or turn it counter-clockwise if you want a coarser grind.
- once the adjustment has been made, lower mechanism A, making sure it is inserted in one of the special notches

Grinding adjustments can be performed separately and independently for the two grinders. The field range is  $\pm 4$  notches compared to the middle position X.

This operation corrects the parameters for ALL selections associated with the grinder that was modified.



### 3.3 Key menu - Milk selection

Press one of the milk dispensing keys (32). The related LED remains on and does not blink. The display appears as follows:

* KEY MENU	
Type	milk
Milk dose	07.0
Emulsion	05.0

Milk selection parameters that can be changed are:

- Milk dose (milk dispensing time: 0 ÷ 60 seconds, with increments of 0.1);
- Emulsion (foamed milk dispensing time, from 0 to 58, with increments of 1 second. The maximum setting time is always 2 seconds less respect "milk dose").

### 3.4 Key menu - Hot water selection

Press the hot water dispensing key (12). The following message will appear on the display:

The following hot water selection parameters can be modified:

- Water dose (dispensing time in seconds.).

* KEY MENU	
Type	Water dose
Water dose	05.0

## 4. Service time menu

To access "Customer parameters" press "⊖" key (34); the message shown below will appear on the display:

* CUSTOMER PARAMETERS	+
SERVICE TIME	↑
ITALIANO	
ENGLISH	
FRANCAIS	
DEUTSCH	
NEDERLANDS	
ESPANOL	↓

Pressing the "PRG" key (29), the following message will appear on the display:

*SERVICE TIME	+
DATE AND TIME	↑
ON time	03:00
OFF time	03:00
Day off	none
Night ON	02:00
Night OFF	02:00
Washing 1	14:30

The following service time parameters can be modified:

- ON time (time the machine switches on);
- OFF time (time the machine switches off);
- day off (day on which the enterprise is closed);
- Night ON (start time for evening beverage price: only when payment system is connected);
- Night OFF (end time for evening beverage price: only when payment system is connected);
- wash 1 (request - every 24 hrs - at the programmed hour; cannot be disabled);
- Wash 2 (hour of scheduled washes 2)
- Wash 3 (hour of scheduled washes 3)

Pressing again the "PRG" key (29), the following message will appear on the display:

* DATE AND TIME	+
Year	04
Month	09 SEP
Date	08 WED
Hour	17
Minutes	12

Use the "+" (30) and "-" (31) keys to move the cursor (black line) to the entry to be modified, then press the PRG (29) key. The cursor turns into an arrow → and it becomes possible to change the value for the selected entry by using the "+" (30) and "-" (31) keys. Once the operation is completed, press the RES (24) key to confirm the data.

Note: the cursor changes back to black line.

Repeat the operation described above to modify other parameters.

### General indications

If there is no day off (i.e. the enterprise never closes), enter "none" for the "day off" item.

Enter the same time for the "ON time" and "OFF time" parameters.

example: ON time 22:00  
OFF time 22:00

if the automatic switch on/switch off function is not required, you wish to manually switch the machine on and off.

A short washing cycle will be performed automatically at the set hour on and switching off time (for example, at 22:00).

### "WASH 1", "WASH 2" AND "WASH 3"

These are scheduled washes that are independent of the cycles related to the switching on and switching off phases. At the set hour, the messages "EXECUTE WASHING GR", "EXECUTE WASHING MILK CIRCUIT", "EXECUTE SHORT WASH" appear, according to the programmed washing.

After having positioned the cursor on the line to be changed and having pressed the "PRG" (29) key, change the value using the "+" (30) and "-" (31) keys. Then press the "RES" (24) key to confirm. Repeat the above operations to change the other wash schedule times.

### "Wash 1"

When this function is requested, a long wash cycle is performed (coffee circuit and coffee circuit) as described in the "Cleaning operation" paragraph.

NOTE: Wash 1 cannot be disabled. It is requested daily at the programmed hour, and always within 24 hours.

### "Wash 2", "Wash 3"

When these functions are requested, they can either be a long or a short wash cycle depending on how they were programmed. If the set hour for these wash cycles occurs when the machine is switched off, the request will be canceled.

NOTE: Set OFF against the time so as to not activate these wash cycles.

OFF is displayed press the "-" (31) key the indicated time is 00:00.

For more details, please consult the technical manual at the "Configuration menu - wash options" paragraph.

## 5. Language selection

To display the messages in a different language from that set, after entering into Programming mode, position the cursor on the desired language by pressing the "+" (30) and "-" (31) keys and then pressing the "PRG" (29) key. The machine will restart with the messages provided in the selected language.

The display (5) provides a choice of the following languages.: Italian, English, French, German, Dutch, Spanish, Portuguese, Russian, Chinese and Japanese.

* CUSTOMER PARAMETERS	+
SERVICE TIME	↑
ITALIANO	
ENGLISH	
FRANCAIS	
DEUTSCH	
NEDERLANDS	
ESPANOL	↓