TECHNICAL INSTRUCTIONS

DAYTONA

1-POWER

ENGLISH
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DICHIAZIONE DI CONFORMITA’ – KONFORMITÄTSERKLÄRUNG
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La Pavoni S.p.A.- Via Privata Gorizia, 7
20098 San Giuliano Milanese (MI)

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(Bezeichnung Typ oder Modell, Los-, Chargen- oder Seriennummer, möglichst Herkunft und Stückzahl)
(Name, type or model, lot, batch or serial number, possible sources and number of items)
(Nom, type ou modèle, no de lot, d’échantillons ou de série, éventuellement sources et nombre
d’examplaires)

DAYTONA 1 – 2 POWER

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document(s)
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(Title and/or number and date of issue of the standard(s) or other normative document(s))
(Titre et/ou no et date de publications de la (des) norme(s) ou autre(s) document(s) normatif(s))
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89/392 CE

San Giuliano Milanese
15/06/2003

La Pavoni S.p.A.
Il Procuratore
Dr. Eugenio Pennè

383033GB          Pag. 5          November 2003
INTRODUCTION AND GENERAL INSTRUCTIONS

Thoroughly read the instructions contained in this booklet because it gives important information regarding safety for installation, use and maintenance. Keep this booklet in a safe and accessible place for further consultation.

This machine must be used only for the purpose it was designed: dispensing coffee, cappuccino and pouring hot water.

Any other use is to be considered inappropriate and therefore dangerous.

The manufacturer declines all responsibility for damage caused by any improper, incorrect and unreasonable use of the machine.

The use of any electric appliance implies the observance of some fundamental rules.

More specifically:
- do not touch the appliance with your hands or feet wet or damp
- do not use the appliance with bare feet
- do not pull the power cord to disconnect the plug from the power socket
- do not leave the appliance exposed to the weather (rain, sun, frost)
- do not let children or untrained persons use the appliance.

Before carrying out any cleaning and maintenance, disconnect the appliance from the power supply, pulling the plug from the power socket and turning off the main switch.

In case of failure or malfunction turn the machine off and do not attempt to carry out any repairs or direct operations on the machine.

All repairs must be carried out in a LA PAVONI Authorised Service Centre, using original spare parts only.

Failure to comply with the above recommendations will compromise the safety of the machine and the warranty conditions.

If this machine is no longer used, we recommend that it is made inoperative by disconnecting the power cord and water tube from the power supply, and all potentially dangerous parts are made harmless, especially to protect children who might use the machine for their games.

INSTRUCTIONS FOR INSTALLATION

Installation must be carried out according to the manufacturer’s instructions.

An incorrect installation can cause damage to persons, animals or things; the manufacturer declines all responsibility for such situation.

After unpacking check that the machine is not damaged.

If in doubt, do not use the machine and contact a LA PAVONI Authorised Service Centre.

All packing materials (plastic wrapping, polystyrene, nails, etc.) are potentially dangerous and must be kept out of children’s reach and disposed of in a safe manner for the environment.

Before connecting the machine to the power supply make sure that the rating information of the machine correspond to that of the power supply: if the power socket is not compatible with the plug of the machine (if supplied), replace the socket with a proper one, ensuring that the size of the cable is suitable for the absorbed power of the machine. If you replace the power cord, use an H07RN-F cord again.

Make sure that the voltage rating of the machine corresponds to that of the power supply, and that the power supply is adequate to additional power absorption of the machine.

After installing the main switch and fuses (see annex), connect the power cord of the machine to the main switch according to the attached electrical diagram.

The use of adapters, multiple power boards and extension cords is not recommended.

If it is absolutely necessary, then use only single or multiple adapters and extension cords which comply with current safety regulations, ensuring also that the electricity load capacity of the single adapters and extension cords and the maximum power rating of the multiple adapters is suitable.

The electrical safety of this machine can be guaranteed only if correctly connected to an efficient earth circuit as indicated by current electrical safety regulations.

It is necessary to check this fundamental safety prerequisite, and in case of doubt, ask a professionally qualified technician to check the circuit.

The manufacturer declines all responsibility for any damage caused by failure to earth the machine.

In order to avoid any dangerous overheating, we recommend that the power cord be fully unwound.

The power cord of this machine must not be replaced by customers.

In case of damage to the cord, contact exclusively a LA PAVONI Authorised Service Centre.

Do not leave the machine connected unnecessarily.

Turn off the main switch of the machine when not in use.

Do not cover the ventilation openings of the machine.

Place the machine at an adequate distance from walls, objects, etc.

The machine must be connected to a system with a water pressure, which is not greater than 5 bar. (Kg/cm²).

If the pressure is greater, a pressure reducer must be installed.

Install a water softener above the machine.

SPECIAL INSTRUCTIONS FOR USE AND MAINTENANCE

For a correct functioning of the machine it is fundamental to comply with the manufacturer’s instructions, having qualified personnel to carry out ordinary maintenance and to check all safety devices.

Avoid exposing hands or other parts of the body to the coffee dispensing spouts or to the hot water nozzle. The water from the nozzle is very hot and can cause severe burns.

The water nozzle is very hot and therefore must be handled with care, holding it in the appropriate point.

Do not use the machine without water.

Do not leave the machine in rooms where the temperature is below zero °C or 32 °F without having first drained the boiler and the hydraulic circuit.

A softener needs to be used where the water is very hard and where the calcareous scaling is particularly extensive.

In any case, regularly check the boiler even where the water is not very hard, and if necessary, have the resistors and tubing descaled by specialised technicians.

Failure to clean La Pavoni S.p.A. machines daily, especially for brewing unit and milk frother, using approved cleaning products and following specified cleaning procedure will result in void warranty and service contract.
### GENERAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of coffee dispensing groups</td>
<td>1</td>
</tr>
<tr>
<td>Number of grinders</td>
<td>1</td>
</tr>
<tr>
<td>Decaffeinated door</td>
<td>1</td>
</tr>
<tr>
<td>Automatic cappuccino nozzle</td>
<td>1</td>
</tr>
<tr>
<td>Hot water dispenser</td>
<td>1</td>
</tr>
<tr>
<td>Maximum quantity of coffee dispensed per hour</td>
<td>180</td>
</tr>
<tr>
<td>Width (mm)</td>
<td>360</td>
</tr>
<tr>
<td>Machine height (mm)</td>
<td>710</td>
</tr>
<tr>
<td>Machine height with hopper (mm)</td>
<td>840</td>
</tr>
<tr>
<td>Depth (mm)</td>
<td>580</td>
</tr>
<tr>
<td>Net weight (Kg)</td>
<td>30</td>
</tr>
<tr>
<td>Coffee boiler capacity (lt)</td>
<td>2</td>
</tr>
<tr>
<td>Steam boiler capacity (lt)</td>
<td>2</td>
</tr>
<tr>
<td>Boiler resistor (W)</td>
<td>2000</td>
</tr>
<tr>
<td>Voltage (V)</td>
<td>230V-1+N – 50/60Hz</td>
</tr>
<tr>
<td></td>
<td>230V-3 – 50/60Hz</td>
</tr>
<tr>
<td></td>
<td>200V-1+N – 50/60Hz</td>
</tr>
<tr>
<td></td>
<td>200V-3 – 50/60Hz</td>
</tr>
<tr>
<td></td>
<td>400V-3+N – 50/60Hz</td>
</tr>
<tr>
<td>Brewer group resistor PTC (W)</td>
<td>70</td>
</tr>
</tbody>
</table>

#### Materials used:
- Copper for boiler
- Copper for hydraulic tubes
- Nickel-plated brass for connections.
- Reinforced silicone for the flexible feed tube.
- Aluminium with stainless steel lining for the brewing group.
- Aluminium for the grinder.
- Other accessories in food plastic which are in contact with the ground coffee or drink.
- Aluminium bodywork
- ABS plastic for controls area.
- Stainless steel and ABS plastic for working area and cups tray.

### DAYTONA 1-POWER MACHINE KEYPAD

![Daytona 1-Power Machine Keypad Diagram](image-url)
1) **Message of machine door positioning**

   ![Door Position Symbol]

   This message is displayed with the following symbol:
   - **Cause**: open door. The reed does not touch the magnet on the door.
   - **Result**: shutdown of the machine functioning.
   - **Solution**: close the machine door.

2) **Message of grounds bin out of position**

   ![Grounds Bin Symbol]

   This message is displayed with the following symbol:
   - **Cause**: grounds bin out of position. The reed does not touch the magnet on the bin.
   - **Result**: shutdown of coffee-based dispensing keys.
   - **Solution**: put the grounds bin into its housing.

3) **Message of full grounds bin**

   ![Grounds Bin Full Symbol]

   This message is displayed with the following symbol:
   - **Cause**: full grounds bin. The number of coffee grounds in the bin has reached the value set in the programming stage.
   - **Result**: shutdown of coffee-based dispensing keys.
   - **Solution**: remove the grounds bin and empty it; put the bin back in when the display shows the following symbol: ![Grounds Bin Full Icon]

4) **Message of coffee boiler heating temperature not reached**

   ![Coffee Boiler Symbol]

   This message is displayed with the following symbol:
   - **Cause**: the coffee boiler has not reached the set up heating temperature.
   - **Result**: shut down of coffee based dispensing.
   - **Solution**: wait until the boiler has reached the set up heating temperature.

5) **Message of steam boiler heating temperature not reached**

   ![Steam Boiler Symbol]

   This message is displayed with the following symbol:
   - **Cause**: the steam boiler has not reached the set up heating temperature.
   - **Result**: shut down of milk based dispensing and hot water and steam dispensing.
   - **Solution**: wait until the boiler has reached the set up heating temperature.

6) **Message of manual group cleaning**

   ![Manual Group Cleaning Symbol]

   This message is displayed with the following symbol:
   - **Cause**: the number of set group cycles has been reached.
   - **Result**: according to the type of machine set up, the results are:
     a) coffee-based deliveries are disabled after 10 deliveries from display of the message
     b) the relevant icon is displayed without blocking machine functioning
   - **Solution**: carry out manual group cleaning.

7) **Message of milker cleaning**

   ![Milk Dispenser Symbol]

   This message is displayed with the following symbol:
   - **Cause**: the number of set milker dispensing has been reached, or the set time after the last milker dispensing is over.
   - **Result**: according to the type of machine set up, the results are:
     a) milk-based doses are disabled after 10 deliveries from display of the message
     b) milk-based deliveries are disabled when the timeout set after the last milker delivery has elapsed
     c) the relevant icon is displayed without blocking machine functioning
STARTING UP PROCEDURE

After having connected the machine to the water and electric networks, turn the switch on (see diagram). The display shows:

LA PAVONI
REV. X.XXX

Where REV. X.XXX indicates the version of the inserted version.

After a few seconds the display shows:

SELECT LANGUAGE
ENGLISH

Press the key N°13 (1x) or N°14 (2x) to display the available languages
Press the key N°16 (3.4.5…X) to confirm the chosen language, the display shows:

OFF

Press the key N°11( ON/OFF ), the display shows:

WARNING:
If the language choice procedure is not displayed, keep the machine in OFF mode; it is absolutely necessary to carry out PARAMETERS PRESET procedure. See system-programming chapter.

STEAM BOILER FILLING UP

During this stage the steam boiler is being filled up.

WARNING:
The solenoid valve of the steam nozzle automatically opens to release the air inside the boiler. When the steam boiler has been filled up, the display shows:

STEAM BOILER FILLING UP
PRESS KEY N°1
AT DISPENSING

During this stage the coffee boiler is being filled up

WARNING:
The upper piston of the coffee group positions itself inside the brewing chamber, and the coffee boiler starts filling up. When the coffee spout starts dispensing water, press the key dose N° 1 to confirm that the filling up has been carried out. When the coffee boiler has been filled up, the display shows:

COFFEE
BOILER
STEAM
BOILER
XXX°C
YYY°C

Where:
- XXX °C indicates the temperature of the coffee boiler
- YYY °C indicates the temperature of the steam boiler

WARNING:
During this stage the solenoid valve of the steam nozzle will stay open until the temperature of 95°C is reached. This will release the air from the boiler and generate steam.

When the set up temperature of both boilers has been reached, all beverage buttons will be operative and the display shows:

SELECT DRINK

For machine configurations: Standard or Self
 For machine configurations: waiters’ card or Self with credit card

For machine configuration: Self with coin mechanism

**WARNING:**

a) For Self-configuration the key N° 11 (ON/OFF) is only enabled for ON function.
   To turn the machine in OFF mode, insert the smart card and either press the key N°11 (ON/OFF), or open the machine door, or use the main switch (see diagram).

b) In case of temporary voltage drop, the machine will be automatically turned back to the stage previous to the voltage drop.

c) The display shows:

Where the displayed icon indicates that the set up heating temperature in the coffee boiler has not been reached yet, and therefore coffee based dispensing is not enabled; or:

Where the displayed icon indicates that the set up heating temperature in the steam boiler has not been reached yet, and therefore milk based dispensing and hot water and steam dispensing are not enabled.

Wait until the boiler has reached the set up heating temperature.
The machine is supplied complete with milk box holder assembly to be fixed to the machine left side, in case the refrigerating unit is not being used.
See drawings to fix the milk box holder.

La Pavoni Spa.
NT.0004
1) STANDARD MACHINE
The display shows:

```
SELECT DRINK
```

The arrows turned downwards indicate the enabled buttons
Press the desired selection button, the display shows:

```
XXXXXXXX
```

Where XXXXXXXXX is the name of the selected drink, while the arrows indicate the key N°13 (1x) and the key N°14 (2x). Press the key “1x” to confirm single cup dispensing, press the key “2x” to confirm double cup dispensing.

Extra foamed milk function.
Extra milk function enables to dispense extra foamed milk in the following way:
- Press any milk-based key and keep it pressed, after 2 seconds foamed milk will start being dispensed.
- Releasing the pressed key, dispensing will stop.

WARNING:
- a) If you want to change the type of displayed selection, press the desired selection button again, before confirming the dispensing by means of the key buttons “1x” o “2x”.
- b) If dispensing is not confirmed after 30” time-out, the display will cancel the chosen selection.
- c) If the selection button you have pressed immediately enables the dispensing cycle, it means that the chosen selection is activated only for a single cup.
- d) Pressing any key during dispensing can stop the selected dose.
  - In case of a milk-based dose, press twice to stop dispensing; press once to stop milk dispensing, and once to stop coffee dispensing; the sequence depends on the type of dispensing.

2) MACHINE WITH WAITERS' CARD
The display shows:

```
INSERT CARD
```

Insert the smart card into the proper slit, the display shows in order:

```
SELECT DRINK
CARD N° XX
WAITER XX
```

Where N°XX indicates the number of the inserted waiters’ card, while the arrows turned downwards indicate the enabled buttons.
Press the desired selection button, the display shows:

```
XXXXXXXX
```

Where XXXXXXXXXX is the name of the selected drink, while the arrows indicate the key N°13 (1x) and the key N°14 (2x). Press the key “1x” to confirm single cup dispensing, press the key “2x” to confirm double cup dispensing.
At this point you can take the smart card out

Extra foamed milk function.
Extra milk function enables to dispense extra foamed milk in the following way:
- Press any milk-based key and keep it pressed, after 2 seconds foamed milk will start being dispensed.
- Releasing the pressed key, dispensing will stop.
WARNING:

a) Dispensing is enabled only when the smart card is inserted.
b) The number of carried out dispensing is saved in the counter relevant to the inserted card.
c) If you want to change the type of displayed selection, press the desired selection button again, before confirming dispensing by means of the key buttons “1x” o “2x”.
d) If dispensing is not confirmed after 30” time-out, the display will cancel the chosen selection.
e) If the selection button you have pressed immediately enables the dispensing cycle, it means that the chosen selection is activated only for a single cup.
f) Pressing any key during dispensing can stop the selected dose.
   In case of a milk-based dose, press twice to stop dispensing; press once to stop milk dispensing, and once to stop coffee dispensing; the sequence depends on the type of dispensing.

3) SELF MACHINE
The display shows:

![SELECT DRINK](image1)

The arrows turned downwards indicate the enabled buttons.
Press the desired selection button, the display shows:

![XXXXXXXX](image2)

Where XXXXXXXXXXX is the name of the selected drink.

WARNING:

a) On-Off button is enabled only when the smart card is inserted
b) Extra milk function is not enabled
c) Steam function is not foreseen and not enabled
d) Decaffeinated function is not foreseen and not enabled
e) Continuous dispensing is not enabled
f) Pressing any key during dispensing can stop the selected dose.
   In case of a milk-based dose, press twice to stop dispensing; press once to stop milk dispensing, and once to stop coffee dispensing; the sequence depends on the type of dispensing.

4) SELF MACHINE WITH CREDIT CARD
The display shows:

![INSERT CARD](image3)

Insert the smart card into the proper slit, the display shows the message:

![SELECT DRINK](image4)

alternated with the message

![CREDIT XXXXX](image5)

Where XXXXX indicates the residual credit of the inserted card.
The arrows turned downwards indicate the enabled buttons.
Place a cup under the delivery spout.
Press the desired selection button, the display shows:

![XXXXXXXX](image6)
Where XXXXXXXX is the name of the selected drink.

**ATTENTZIONE:**
a) On-Off button is enabled only when the smart card is inserted  
b) If you press a selection button before inserting the smart card, the display shows the cost of the selected drink.  
c) Extra milk function is not enabled  
d) Steam function is not foreseen and not enabled  
e) Decaffeinated function is not foreseen and not enabled  
f) Continuous dispensing is not enabled  
g) The selected dose cannot be stopped.

**WARNING:**
To disable the functioning of the machine with credit card, proceed as follows:
Turn the machine ON.
Insert the owner or technician's smart card into the proper slit.
Press the key N°9, the display shows:

```
FREE DRINKS
XXXXXXXX
```

Where XXXXXXX indicates:
- **ENABLED** (Self-configuration: the machine dispenses free drinks)
- **DISABILITATO** (Coin mechanism: the machine dispenses drinks against payment)

Press the key N°13 (1x) or N°14 (2x) to modify the level mode.
Press the key N°12 (gost1) to return to the previous environment and/or exit.
Press the key N°16 (3.4.5…X) to confirm, the display shows:

```
SELECT DRINK
```

**WARNING:**
The following configurations are available: self with credit card + self with coin mechanism. In this case the display shows: “INSERT COINS” alternated with “INSERT CARD”.

**5) SELF MACHINE WITH COIN MECHANISM**
The display shows:

```
INSERT COINS
0000
```

Alternated with the message:

```
SELECT DRINK
```

Where "00000" indicates the money amount inserted in the machine.
The arrows turned downwards indicate the enabled buttons.
Place a cup under the coffee spout, insert coins, press the desired button, the display shows:

```
XXXXXXXX
```

Where XXXXXXXX is the name of the selected dose.

**WARNING:**
a) On-Off button is enabled only when the smart card is inserted  
b) When pressing the selection button before inserting coins, the display shows the cost of the selected drink.  
c) The credit will not be returned and will be available for the next selection.  
d) To get the coins back before having selected the dose, press the relevant button of the coin mechanism.  
e) Extra milk function is not enabled.  
f) Steam function is not foreseen and not enabled.  
g) Decaffeinated function is not foreseen and not enabled.  
h) Continuous dispensing is not enabled.  
i) The selected dose cannot be stopped.

**WARNING:**
To disable the coin mechanism, proceed as follows:
Turn the machine ON 
Insert the owner or technician's smart card into the proper slit.
Press the key N°9, the display shows:

**FREE DRINKS**

XXXXXXXX

Where XXXXXXX indicates:

- **ENABLED** (Self-configuration: the machine dispenses free drinks)
- **DISABLED** (Coin mechanism: the machine dispenses drinks against payment)

Press the key N°13 (1x) or N°14 (2x) to modify the level mode.
Press the key N°12 (gost1) to return to the previous environment and/or exit.
Press the key N°16 (3.4.5…X) to confirm, the display shows:

**SELECT DRINK**

---

6) SELF MACHINE WITH CREDIT CARD + COIN MECHANISM

The following configurations are available: self with credit card + self with coin mechanism.
In this case the display shows:

**INSERT COINS**

0000

alternated with:

**INSERT CARD**

For further information, see the following paragraphs.
DISPENSING BY MEANS OF DECAFFEINATED COFFEE DOOR

The display shows:

```
SELECT DRINK
```

Open the decaffeinated door, pour in the powdered coffee, close the door.
The display shows:

```
SELECT DRINK
```

Where ❤️ indicates that the selected dose will be dispensed without the activation of the grinders.

**WARNING:**

a) If the decaffeinated door is not closed, or if the dose button is not selected, the machine will automatically cancel this function after 20". The coffee group will carry out a cleaning cycle of the chamber, the display shows:

```
          
```

b) This function is not enabled for self machine, for self machine with credit card, for self machine with coin mechanism, and for self with credit card + coin mechanism.

CONTINUOUS DISPENSING

The display shows:

```
SELECT DRINK
```

Press the continuous key N°16 (3.4.5…X) as many times as the number of doses you want to dispense by means of the continuous dispensing function, maximum value is 5; the display shows:

```
SELECT DRINK
```

Where X ☐ indicates the number of cycles the machine will automatically carry out for the dose you will select.

**WARNING:**

a) If you want to stop the automatic continuous cycle just press the continuous button N°16 (3.4.5…X).

b) This function is not enabled for the decaffeinated cycle.

c) This function is not enabled for self machine, for self machine with credit card, for self machine with coin mechanism, and for self with credit card + coin mechanism.

STEAM DISPENSING

Put the steam nozzle into the drink you want to heat up. Press the key N°9 to start and stop dispensing. The display shows:

```
STEAM
```

**WARNING:**

a) Handle the steam nozzle with caution because it could cause burns, due to high temperature.

b) The steam message will not be displayed in case another dispensing is being carried out.

c) Steam cannot be dispensed simultaneously with hot water.

d) This function is not enabled for self machine, for self machine with credit card, for self machine with coin mechanism, and for self with credit card + coin mechanism.
HOT WATER DISPENSING

Place the decanter under the hot water spout. Press the key N°10 to start the hot water dose. Dispensing will be automatically stopped once the programmed dose is reached.

The display shows:

HOT WATER

WARNING:

a) Handle the hot water spout with caution because it could cause burns, due to high temperature.
b) The hot water message will not be displayed in case another dispensing is being carried out.
c) Hot water cannot be dispensed simultaneously with steam.
d) Pressing the key N°10 can stop the dose, which is being dispensed.

SMART CARD FUNCTIONS

The machine is enabled to work in the various use procedures with or without the smart card according to the desired operation, and to the type of machine configuration.

The available smart cards are:

1) Waiters’ Smart card  Card number 1-25
2) Owner’s Smart card  Card number P
3) Technician’s Smart card Card number T
4) Smart credit card  Card number C
5) Reading-writing Smart card  Card number LS

WARNING:

a) Waiter, owner, technician and credit cards can be created on the machine control panel (see chapter system programming, smart card programming)
b) Owner, waiter and credit cards can be converted into smart cards with other functions
c) Technician’s cards cannot be converted into any other smart card

g) Dispensing carried out with this card is not counted
e) Linked remote control systems (interface I/O, coin mechanism) are disabled.
3) Technician’s smart card

It is possible to set an infinite number of technician's cards. This card enables all the machine functions:

WARNING:
- a) Dispensing carried out with this card is not counted
- b) Linked remote control systems (Interface I/O, coin mechanism) are disabled
- c) Grounds bin reed and machine door are disabled.

4) Smart credit card

It is possible to set an infinite number of cards with credit. This card enables dispensing in case the machine has been set as “self with credit card”.

5) Reading-writing Smart card

This card enables to read all machine data, and transfer them to another machine or read them by means of a P.C.

WARNING:
- a) Wait at least 2" before removing the card from its proper slit; during this time the display shows a card icon. If the card is removed during this stage, the card might suffer irreparable damages.
- b) If you use a card having a card code different from the machine code, the card can no longer been used after two failures.
AUTOMATIC WASHING CYCLE PROCEDURE

1) COFFEE GROUP AUTOMATIC TIMED WASHING
A timed washing cycle of the brewing chamber is automatically carried out 15’ after the last dispensed drink and every 180’ when the machine is in stand-by mode.
The display shows:

   AUTOMATIC CLEANING

WARNING:
a) The timed washing cycle is not enabled for self machine, for self machine with credit card, for self machine with coin mechanism, and for self machine with credit card + coin mechanism.
b) The parameters of water quantity and activation time of automatic washing are modifiable (see chapter: machine data configuration).

2) AUTOMATIC TIMED RINSE OF THE CAPPUCINO MAKER.
This is a brewing chamber washing cycle, which is carried out by the machine automatically 10 minutes after the last dose based milk and every 3 hours.
WARNING:
You can change the interval time before the automatic wash switches on (see machine parameter management chapter).

3) GROUP-MILKER AUTOMATIC WASHING WITH DETERGENT
To enter the automatic washing mode with detergent, proceed as follows:
Turn the machine ON.
Insert the Smart Card into the proper slit.
Press the key N° 12 (goes1), the display shows:

   SELECT CLEANING
   ▼ T1 GROUP CLEANING
   ▼ T2 MILKER CLEANING

The arrows turned downwards indicate the keys enabled to choose the type of washing:
Press the key N°1 to start group washing
Press the key N°2 to start milker washing
WARNING:
a) Before starting milker washing, remove the milk infeed pipe from the milk carton and carefully read the washing procedure.
b) The access to this function is enabled by means of the smart card only for Self-service configurations

3.1. GROUP WASHING
It is advisable to carry out this type of washing at the end of each working day.
The display shows:

   GROUP CLEANING
   PLEASE WAIT

The group moves to the tablet ejecting position and the display shows:

   GROUP CLEANING
   Open the door and clean

Open the machine door
and by using the special brush supplied, clean the group pistons and the brewing chamber.

**WARNING:** if you move the ejector in order to optimise manual cleaning, remember to put it back to its **ejection position**. Close the door, the display shows:

```
GROUP CLEANING
PLEASE WAIT
```

The group is brought to its rest position, the display shows:

```
GROUP CLEANING
Insert detergent
```

Open the decaffeinated door nor the machine (for Self-service configurations), insert the detergent tablet and close the decaffeinated door, the display shows:

```
GROUP CLEANING
```

Washing will automatically start; when the washing cycle is over, the display shows:

```
SELECT DRINK
```

**WARNING:**

a) The washing cycle is disabled after 30" time-out in any stage before inserting the detergent, except when the machine door is open.

b) The washing cannot be interrupted after the detergent has been inserted.

c) If the washing cycle is interrupted by any type of operation unrelated to the washing cycle, when the machine functioning is set back again, the washing cycle will be automatically activated.

d) The hot water parameters and activation times of the washing cycle are modifiable (see chapter: group-washing procedure).

e) The cleaning cycle can also be activated by keeping a dose key (T1-T8) pressed for about 3 seconds, if previously configured as “GROUP CLEANING” (see chapter beverage name programming).

The display shows:

```
GROUP CLEANING
Open the front door and clean
```

Repeat the same procedures to carry out the washing cycle.

### 2.2) MILKER WASHING

It is advisable to carry out this type of washing at the end of each working day.

**WARNING:**

Before starting automatic milker washing, proceed as follows:

a) remove the milk infeed pipe from the milk carton.

b) Put the milk infeed pipe into a glass of cold water. If you use a detergent it must be liquid, no-foaming and food-type.

The display shows:

```
MILKER CLEANING
```

When the washing cycle is over, the display shows:

```
SELECT DRINK
```
WARNING:

a) The washing cycle cannot be interrupted.
b) If the washing cycle is interrupted with any type of operation unrelated to the washing cycle, when the machine functioning is set back again, the washing cycle will automatically be activated.
c) At the end of each working day the milker should be dismantled and cleaned by hand. To dismantle the milker, remove the cover of the coffee-milker spout (see diagram).

d) The plunged tube needs to be periodically cleaned, therefore we suggest dismantling the two parts of the tube (1-2) and carefully clean them, as well as the bulkhead (3) fixed on the side of the machine, by means of the supplied brush.

WARNING:

When the washing is over, check that the milker infeed pipes are correctly connected; see below diagram:
e) The cleaning cycle can also be activated by keeping a dose key (T1-T8) pressed for about 3 seconds, if previously configurated as "MILKER CLEANING" (see chapter beverage name programming).

The display shows:

```
MILKER CLEANING
```

When the cleaning cycle is over, the display shows:

```
SELECT DRINK
```
DOSE PROGRAMMING PROCEDURE

To enter programming mode, proceed as follows.
Insert the owner or technician’s smart card into the proper slit, with machine ON or OFF.
Press the key N°16 (3.4.5…X) for 5 seconds, the display shows:

```
DOSE PROGRAMMING
SELECT BUTTON
```

**WARNING:**

a) During selection key programming, it is possible to choose another selection key, remaining in the same programming level, if the selection key is enabled to this function.
b) When the technician’s smart card is inserted, the machine can be programmed even in OFF mode.
c) After 30” time-out, any type of mode and/or programming environment will be abandoned.

1) BEVERAGE NAME PROGRAMMING

Press a selection button, the display shows:

```
DOSE PROGRAMMING
SELECT NAME
TY XXXX
```

Where:
TY indicates the number of the selected button.
XXXX indicates the name of the selected button.
Press the key N°13 (1x) or N°14 (2x) to modify the level mode.
Press the key N°16 (3.4.5…X) to confirm the modification carried out and shift to the next level.
Press the key N°15 (gost2) to shift to the next level without saving the modifications carried out.
Press the key N°12 (gost1) to return to the previous environment and/or exit.

The available choices are the following:

<table>
<thead>
<tr>
<th>COFFEE-BASED DRINKS</th>
<th>MILK-BASED DRINKS</th>
<th>FILTER DRINKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaffee creme</td>
<td>Schnaps</td>
<td>Cappuccino</td>
</tr>
<tr>
<td>Espresso</td>
<td>Kaennchen</td>
<td>Café latte</td>
</tr>
<tr>
<td>Coffee</td>
<td>Lutz</td>
<td>Café au lait</td>
</tr>
<tr>
<td>Kaffee</td>
<td>Fertig</td>
<td>Milchkaffee</td>
</tr>
<tr>
<td>Black coffee</td>
<td>Grosser brauner</td>
<td>Café</td>
</tr>
<tr>
<td>Ristretto</td>
<td>Kleiner brauner</td>
<td>2 Ristretti</td>
</tr>
<tr>
<td>Schale</td>
<td>Verlaengerter</td>
<td></td>
</tr>
<tr>
<td>Entkoffeeinert</td>
<td>Melange</td>
<td>ONLY-MILK DRINKS</td>
</tr>
<tr>
<td>Koffeinfrei</td>
<td>Schuemli</td>
<td>Latte</td>
</tr>
<tr>
<td>Fruehestueck</td>
<td>Café petit déjeuner</td>
<td>Milch</td>
</tr>
<tr>
<td>Sans cafeïne espresso</td>
<td>Sans cafeïne café</td>
<td>Group cleaning</td>
</tr>
</tbody>
</table>

**WARNING:**

a) Depending on the type of chosen drink, the necessary programming levels will be activated to set the drink.
b) If the chosen drink refers to “FILTER DRINKS”, the coffee group cycle will be automatically modified so that ground coffee is not pressed. Besides, additional programming levels are activated, enabling to optimise the infusion of the selected drink.
c) If the selected name is not enabled, the button will not be enabled to dispensing.
d) If the selected name refers to “SERVICES”, the button is enabled to group or milker cleaning function (see par. automatic cleaning cycle procedure).
Descriptions of the levels of programming doses

1.1) Decaffeinated door function
This level will not be displayed for only milk drinks

<table>
<thead>
<tr>
<th>DOSE PROGRAMMING</th>
<th>DECAFFEINATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXXXXXX</td>
<td></td>
</tr>
</tbody>
</table>

Where XXXXXXX indicates:
- ENABLED (the selected dose button is enabled to the use of the door to insert decaffeinated coffee)
- DISABLED (the selected dose button is not enabled to the use of the door to insert decaffeinated coffee)

WARNING:
This programming level is not enabled for self machine, self with credit card and self with coin mechanism

1.2) Motor pump function during filter coffee cycle or latte macchiato
This level will be displayed only for filter drinks or for milk-based drinks

<table>
<thead>
<tr>
<th>DOSE PROGRAMMING</th>
<th>MOTOR PUMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXXXXXX</td>
<td></td>
</tr>
</tbody>
</table>

Where XXXXXXX indicates:
- ENABLED (the selected dose will be dispensed by means of the motor pump)
- DISABLED (the selected dose will be dispensed without the activation of the motor pump, only by using the pressure of the hydraulic network)

WARNING:
This function is enabled in order to allow dispensing of filter drinks without using the motor pump and obtain an infusion similar to that of percolators, that is without pressure.

1.3) Grind time programming
This level will not be displayed for only-milk drinks.

<table>
<thead>
<tr>
<th>DOSE PROGRAMMING</th>
<th>GRIND TIME</th>
<th>M1 XX s</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>M2 XX s</td>
</tr>
</tbody>
</table>

Where XX s indicates the time in seconds during which the grinder will be activated.

WARNING:
To check the set up grind time and therefore the corresponding coffee quantity, proceed as follows:
a) Open the machine door.
b) Remove the coffee chute, disassembling the components according to the procedure shown in the picture
c) Place a paper cup at the exit of the grinder chute to collect the coffee that will be ground.
d) Press the dose button you are programming.
e) Weigh the ground coffee obtained.
To ease the procedure, we suggest removing the upper piston, or taking out the coffee chute and directly taking the ground coffee from the coffee outlets of the grinders.

1.4) Pre-infusion time programming
This level will not be displayed for filter and only-milk drinks.

```
DOSE PROGRAMMING
PRE – INFUSION X.X s
```

Where X.X s indicates the time in seconds necessary to wet coffee in the brewing chamber before dispensing.

1.5) Pre-infusion time programming for filter coffee cycle
This level will be displayed for filter drinks only.

```
DOSE PROGRAMMING
PRE – INFUSION X.X CC
```

Where X.X CC indicates the water quantity in cm3 necessary to wet coffee in the brewing chamber before dispensing.

1.6) Pause programming during filter coffee cycle
This level will be displayed only for filter drinks

```
DOSE PROGRAMMING
PAUSE     XX s
```

Where XX s indicates the pause time in seconds carried out by the coffee group cycle after pre-infusion cycle.
**WARNING:** This function has been enabled to optimise the infusion of filter drinks.

1.7) Coffee water dose programming
This level will not be displayed for only milk drinks

```
DOSE PROGRAMMING
INFUSION XX CC
```

Where XX CC indicates the water quantity in cm3 of the selected dose.

1.8) Water dose programming for extra water volume
This level will be displayed only for coffee-based and filter-based drinks.

```
DOSE PROGRAMMING
EXTRA WATER VOLUME XX CC
```

Where XX CC indicates the water quantity in cm3 dispensed by means of the by-pass solenoid valve
**WARNING:**
The extra water dose (by-pass) is equivalent to the amount of water dispensed by the by-pass solenoid valve simultaneously with the coffee group solenoid valve during the final dispensing stage. The amount of water set up in the previous programming level remains the same.

1.9) Programming of steamed milk-dispensing time before coffee
This level will not be displayed for filter-based and coffee-based drinks

```
STEAMED MILK  PRE XX s
```

Where XX s indicates the time in seconds during which steamed milk will be dispensed before the coffee dose.
1.10) Programming the pause time between the PRE steamed milk and PRE foamed milk delivery.
This level will not be displayed for coffee and filter based drinks.

\[
\text{DOSE PROGRAMMING} \\
\text{PAUSE MILK PRE XX}
\]

Where XX s indicates the time in seconds of the pause between the PRE steamed milk and PRE foamed milk delivery.

**PLEASE NOTE:**
This function has been enabled to allow the hot milk and the frothy milk to stratify before the coffee is dispensed.

1.11) Programming of foamed milk-dispensing time before coffee
This level will not be displayed for filter-based and coffee-based drinks

\[
\text{DOSE PROGRAMMING} \\
\text{FOAMED MILK PRE XX s}
\]

Where XX s indicates the time in seconds during which foamed milk will be dispensed before the coffee dose.

1.12) Programming of pause time between milk and coffee dispensing
This level will not displayed for filter-based and coffee-based drinks.

\[
\text{DOSE PROGRAMMING} \\
\text{MILK-COFFEE PAUSE XXs}
\]

Where XX s indicates the pause time in seconds passing between milk and coffee dispensing.

**WARNING:**
This function has been implemented to allow steamed and foamed milk to stratify before coffee dispensing.

1.13) Programming of steamed milk-dispensing time after coffee
This level will not be displayed for filter-based and coffee-based drinks

\[
\text{DOSE PROGRAMMING} \\
\text{STEAMED MILK POST XX s}
\]

Where XX s indicates the time in seconds during which steamed milk will be dispensed after coffee doses.

1.14) Programming the pause time between the POST steamed milk and POST foamed milk delivery.
This level will not be displayed for coffee and filter based drinks.

\[
\text{DOSE PROGRAMMING} \\
\text{PAUSE MILK POST XX s}
\]

Where XX s indicates the time in seconds of the pause between the POST steamed milk and POST foamed milk delivery.

**PLEASE NOTE:**
This function has been enabled to allow the hot milk and the frothy milk to stratify before the coffee is dispensed.

1.15) Programming of foamed milk-dispensing time after coffee
This level will not be displayed for filter-based and coffee-based drinks

\[
\text{DOSE PROGRAMMING} \\
\text{FOAMED MILK POST XX s}
\]

Where XX s indicates the time in seconds during which foamed milk will be dispensed after the coffee dose.

1.16) Price programming of a set up dose

\[
\text{DOSE PROGRAMMING} \\
\text{DOSE PRICE XXXXX}
\]

Where XXXXXXX indicates the dose price given to the selection button that is being programmed.
1.17) Control of deliveries of programmed doses

Press a dose key to carry out one delivery and check the previously set values.

1.18) Programming menu function for two cups

This level will not be enabled for only milk-based drinks.

Where XXXXXXX indicates:
- ENABLED (the dose button is enabled to single and double dispensing (X1 e/o X2)).
- DISABLED (the dose button is only enabled to single dispensing).

WARNING:
- a) When the function 2X is enabled, the above menu is displayed again to set up the doses for two cups.
- b) This programming level is not enabled for self machine, self with credit card, self with coin mechanism, self with credit card + coin mechanism.

2) PROGRAMMING OF HOT WATER DOSE FOR TEA

Press hot water button, the display shows:

2.1) Programming hot water dose for tea

where XXX.X indicates the time in seconds during which hot water will be dispensed; the value varies between 0-120s; 10s are the standard set up value.

Press the key N°13 (1x) or N°14 (2x) to modify the level mode.
Press the key N°16 (3.4.5…X) to confirm the modification carried out and shift to the next level.
Press the key N°15 (gost2) to shift to the next level without saving the modifications carried out.
Press the key N°12 (gost1) to return to the previous environment and /or exit.

2.2) Price programming of a set up dose

where XXXXX indicates the dose price given to the selection button that is being programmed.

WARNING:
If the dose is programmed to zero, the button is disabled.

3) STEAM DISPENSING TIME PROGRAMMING

Press the hot water key, the display shows:

3.1) Steam dispensing time programming

where XXX indicates the time in seconds during which steam will be dispensed; the value varies between 0-120s; 10s are the standard set up value.
where XXX indicates the time in seconds during which steam will be dispensed; the value varies between 0-255s; 255s are the standard set up value.
Press the key N°13 (1x) or N°14 (2x) to modify the level mode.
Press the key N°16 (3.4.5…X) to confirm the modification carried out and shift to the next level
Press the key N°15 (gost2) to shift to the next level without saving the modifications carried out.
Press the key N° 12 (gost1) to return to the previous environment and/or exit.

3.2) Price programming of a set up dose

<table>
<thead>
<tr>
<th>DOSE PROGRAMMING</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE PRICE</td>
</tr>
<tr>
<td>XXXXX</td>
</tr>
</tbody>
</table>

where XXXXX indicates the dose price given to the selection button that is being programmed.

WARNING:
If the dose is programmed to zero, the button is disabled.

---

**SYSTEM TEMPERATURE INFORMATION PROCEDURE**

To enter the environment of info temperature system, proceed as follows:
Turn the machine ON or OFF.
Press the key N° 15 (gost2), the display shows:

<table>
<thead>
<tr>
<th>INFO TEMPERATURE SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>COFFEE TEMPERA. XX°Z</td>
</tr>
<tr>
<td>STEAM TEMPERA. YY°Z</td>
</tr>
</tbody>
</table>

Where:
XX°C indicates the temperature of the coffee boiler, and Z indicates the unit expressed in ° Centigrade or ° Fahrenheit
YY°C indicates the temperature of the steam boiler, and Z indicates the unit expressed in ° Centigrade or ° Fahrenheit

WARNING:
a) The system temperatures will be displayed for 5”.
b) This function is enabled without the use of the smart card

---

**INFORMATION PROCEDURE AND DISPENSING RESET**

To enter the information environment and dispensing reset, proceed as follows:
Turn the machine ON
Insert the smart card into the proper slit
Press the key N°15 (gost2), the display shows:

<table>
<thead>
<tr>
<th>DISPENSING INFO</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE READING</td>
</tr>
</tbody>
</table>

Press the key N°16 (3.4.5…X) to confirm entering the environment
Press the key N°13 (1x) or N°14 (2x) to display the available environments
Press the key N° 12 (gost1) to exit the environment
The display shows:

<table>
<thead>
<tr>
<th>DISPENSING INFO</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE READING</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DISPENSING INFO</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAITERS' DOSE</td>
</tr>
<tr>
<td>RESET</td>
</tr>
</tbody>
</table>
WARNING:
a) Dispensing info environment of the waiters’ card reset is only enabled by means of machine configuration “waiters”.
b) Dispensing info environment of the waiters’ card reset is only enabled by means of the owner or technician’s card.

Descriptions of information environments and dose reset:

1) READ DOSE COUNTER

1.1) In case of machine configuration: standard, self, self with credit card, self with coin mechanism, self with credit card + coin mechanism, the display shows:

![DISPENSING INFO
READ DOSE COUNTER](image1)

Press N°16 (3.4.5…X) to confirm entering the environment, the display shows:

![DISPENSING INFO
TOTAL TAKINGS
XXXXXXXX](image2)

Where XXXXXXXX indicates the total takings of the machine

WARNING:
The total takings will be calculated if a selling price has been set for each dose
Press the key N° 16 (3.4.5…X) to confirm entering the next environment, the display shows:

![DISPENSING INFO
READ DOSE COUNTER
SELECT BUTTON](image3)

Press the key dose whose number of drinks you want to display; the display shows:

![DISPENSING INFO
READ DOSE COUNTER
XXXXX
1X YY 2X ZZ ♥ JJ](image4)

Where: “XXXX” indicates the name of the selected button
1X YY indicates the number of single cup dispensed drinks
2X ZZ indicates the number of double cup dispensed drinks
♥ JJ indicates the number of decaffeinated dispensed drinks

1.2) In case of machine configuration with waiters’ card, the display shows:

![DISPENSING INFO
READ DOSE COUNTER](image5)

Press the key N°16 (3.4.5…X) to confirm entering the environment, the display shows:

![DISPENSING INFO
READ DOSE COUNTER
WAITER 1](image6)

Where 1 indicates the number of the waiter’s card.
Press the key N°13 (1x) or N°14 (2x) to change the number of the waiter’s card or the machine total T
Press the key N° 12 (gostr1) to exit the environment.
Press the key N°16 (3.4.5…X) to confirm, the display shows:

![DISPENSING INFO READ DOSE COUNTER WAITER Y TOTAL TAKINGS XXXXXXXX](image7)
Where Y indicates:
from 1 to 25 the waiter’s number
T all the waiters.

Where XXXXXXX indicates the total takings made by the relevant waiter 1-25 or by all the waiters T.

**WARNING:**
The total takings will be calculated if a selling price has been set for each dose
Press the key N° 16 (3.4.5…X) to confirm entering the next environment, the display shows:

```
DISPENSING INFO READ
DOSE COUNTER WAITER 1
```

Press the key dose whose number of drinks you want to display; the display shows:

```
DISPENSING INFO READ
DOSE COUNTER WAITER 1
XXXXX
1X YY  2X ZZ  ♥ JJ
```

Where: “XXXX” indicates the name of the selected button
1X YY indicates the number of single cup dispensed drinks
2X ZZ indicates the number of double cup dispensed drinks
♥ JJ indicates the number of decaffeinated dispensed drinks
Press the key (gost1) to return to the level enabling to select the card number.

**WARNING:**
a) If the waiters’ card is inserted, it is not possible to display info about other cards.
b) If the owner or technician’s card is inserted, info about each waiter card or of all the waiters’ key can be displayed.

### 2) WAITER DOSE RESET

The display shows:

```
DISPENSING INFO
WAITER DOSE REST
```

Press the key N°16 (3.4.5…X) to display the next level, the display shows:

```
DISPENSING INFO
DOSE RESET
WAITER’S CARD N° XX
```

Where XX indicates the number of the waiter’s card you want to reset.
Press the key N°13 (1x) or N°14 (2x) to display the number of the desired waiter’s card.
Press the key N°16 (3.4.5…X) to confirm the number of the waiter’s card.
Press the key N°12 (gost1) to exit the environment.
The display shows:

```
WAITER’S CARD RESET N°XX
```

After 3” the display shows:

```
DISPENSING INFO
DOSE RESET
WAITER’S CARD N° XX
```

Repeat the above procedures to reset the other waiters’ cards.
This procedure is enabled only for the following machine configurations: self with credit card, self with credit card + coin mechanism.

To enter the credit charge environment, proceed as follows:

1. Turn the machine in ON mode.
2. Insert the owner or technician's smart card into the proper slit.
3. Press the key N°16 (3.4.5...X), the display shows:

```
SYSTEM PROGRAMMING
CREDIT CHARGE
```

Press the key N°16 (3.4.5...X) to confirm entering the environment. The display shows:

```
SYSTEM PROGRAMMING
CREDIT CHARGE
INSERT SMART CARD
```

Remove the technician or owner's card, and insert the card where you want to programme the credit.

Once the card to be programmed has been inserted, the display will automatically show the machine device code:

```
SYSTEM PROGRAMMING
CARD CODE
XXXXXX
```

Insert the code relevant to the card to be programmed.

To insert the card code, proceed as follows:

- The blinking X number indicates the first figure of the code to be modified:
- Press the key N°13 (1x) or N°14 (2x) to modify the figure.
- Press the key N°16 (3.4.5...X) to confirm the modification.
- Press the key N°15 (gost2) to enter the next level without saving the modification carried out.
- Press the key N° 12 (gost1) to return to the previous environment and/or exit.

After having modified the first figure and confirmed the operation, the display shows:

```
SYSTEM PROGRAMMING
CARD CODE
XXXXX
```

Where the blinking X number indicates the second figure to be modified, etc. etc. Repeat the above operations for all the other figures.

Once the card code has been entered, the display shows:

```
a
```

```
SYSTEM PROGRAMMING
CREDIT CHARGE
CURRENT CREDIT XXXXXXX
ADD YYYYYYY
```

Where:

- XXXXXXX indicates the residual card credit
- YYYYYYY indicates the value that can be added to the card

Press the key N°13 (1x) or N°14 (2x) to modify the value to be credited.
Press the key N°16 (3.4.5...X) to confirm the modification.
Press the key N°15 (gost2) to enter the next level without saving the modification carried out.
Press the key N° 12 (gost1) to return to the previous environment and/or exit.

The display shows:

```
SYSTEM PROGRAMMING
CARD CODE
FUNCTION OVER
```
Remove the created credit card, the display shows:

```
SYSTEM PROGRAMMING
INSERT CARD
XXXXXXXX
```

Where XXXXXXXX indicates:
- **TECHNICIAN** if the card inserted to enable the programming of the waiter’s card was the technician’s
- **OWNER** if the card inserted to enable the programming of the waiter’s card was the owner’s.

Insert the requested card, the display shows:

```
SYSTEM PROGRAMMING
CREDIT CHARGE
```

**WARNING:**
The value that can be inserted is determined by the difference between the maximum programming value of the card (value that is fixed in the environment “system programming, machine parameters”) and the residual credit of the inserted card.

b)

```
CREDIT CHARGE
CARD CODE
NOT VALID
```

This message is displayed if the inserted card code does not correspond to that of the inserted card.

Remove the card to be reprogrammed, the display shows:

```
CREDIT CHARGE
INSERT CARD
XXXXXXXX
```

Where XXXXXXXX indicates:
- **TECHNICIAN** if the card inserted to enable the programming of the waiter’s card was the technician’s
- **OWNER** if the card inserted to enable the programming of the waiter’s card was the owner’s.

Insert the requested card, the display shows:

```
SYSTEM PROGRAMMING
CREDIT CHARGE
```

Repeat the procedure.

**WARNING:**
After 4 (four) failed attempts the card can no longer be used.

c)

```
SYSTEM PROGRAMMING
BROKEN CARD
```

This message is displayed if one has repeatedly tried to programme the card and a wrong card code has been entered. The card can no longer be used.

Press the key N°16 (3.4.5…X), the display shows:

```
SYSTEM PROGRAMMING
SMART CARD PROGRAMMING
```
To enter the system-programming environment, proceed as follows:
Turn the machine OFF.
Insert the owner or technician’s smart card into the proper slit.
Press the key N°16 (3.4.5.), the display shows:

SYSTEM PROGRAMMING
MACHINE PARAMETERS

Press the key N°13 (1x) or N°14 (2x) to display the available environments.
Press the key N°16 (3.4.5…X) to confirm entering the desired environment.
Press the key N° 12 (gost1) to return to the previous environment and/or exit.

SYSTEM PROGRAMMING
PROGRAMMING
GROUP CLEANING

SYSTEM PROGRAMMING
PROGRAMMING
MILKER CLEANING

SYSTEM PROGRAMMING
SET-UP ENCODER

SYSTEM PROGRAMMING
GROUP MANUAL MOVEMENTS

SYSTEM PROGRAMMING
TEST ACTUATORS

SYSTEM INFORMATION
RESET DOSES COUNTER
SYSTEM DATA

SYSTEM PROGRAMMING
ALARM DATA MEMORY

SYSTEM PROGRAMMING
SMART CARD PROGRAMMING

SYSTEM PROGRAMMING
PRESET CONFIGURATION DATA

SYSTEM PROGRAMMING
FILE MANAGER

SYSTEM PROGRAMMING
UPDATE SOFTWARE

SYSTEM PROGRAMMING
HISTORY HIGER MOTOR

SYSTEM PROGRAMMING
HISTORY LOWER MOTOR

Descriptions of the machine programming environments:

1) MACHINE PARAMETERS
Only the technician’s card is enabled to enter this environment.
The display shows:
Press the key N°16 (3.4.5...X) to display the available levels.
Press the key N°13 (1x) or N°14 (2x) to modify the level mode.
Press the key N°16 (3.4.5...X) to confirm the modification and shift to the next level.
Press the key N°15 (gost2) to shift to the next level without saving carried out the modifications.
Press the key N° 12 (gost1) to return to the previous environment and/or exit.

1.1) Language selection programming

Where XXXXXX indicates the type of set up language: Italian, English, German, and French.

1.2) Machine type configuration programming

Where XXXXXX indicates:
STANDARD  (the machine works without the use of waiters’ smart card)
WAITERS’ CARD  (the machine works with the use of waiters’ smart card only)
SELF  (the machine works as Self Service version)
SELF with Credit card  (the machine works with the use of the smart credit card)
SELF Credit card +COIN MECHANISM  (the machine works with the use both of the smart credit card and coin mechanism)

1.3) Serial door function

Where XXXXXX indicates:
Disabled  (the machine works without connected peripheral)
I/O HARTWALL  (the machine works with connected interface I/O)
RM5Coin Box  (the machine works with connected standard coin mechanism)
Change Giver Executive  (the machine works with Executive protocol to run external devices, not sold by la Pavoni for instance change giver coin mechanism)

1.4) Coffee grounds number programming

Where XX indicates the set up grounds number, variable value between 0-100, 60 set up standard value.
WARNING:
XX  (The machine works with the use of coffee grounds bin; when the set up grounds number is reached, the relevant message “grounds bin full” will be displayed)
00  (The machine works without the use of coffee grounds bin; direct grounds discharge installed)

1.5) Automatic cleaning function

Where XXXXXXXX indicates:
ENABLED  (the machine automatically carries out coffee group cleaning)
DISABLED  (the machine does not carry out coffee group cleaning automatically)

If automatic cleaning is activated, the following programming levels are displayed:
1.5.a) Water dose programming for automatic cleaning

MACHINE PARAMETERS
AUTO CLEANING
WATER XX CC

Where XX CC indicates set up water quantity, which will be dispensed; variable value between 0-300CC; 70cc set up standard value.

1.5.b) Start time programming of automatic cleaning after the last coffee

MACHINE PARAMETERS
AUTOMATIC CLEANING
T.O. AFTER COFFEE XX min

Where XX min indicates set up time in minutes passed between the last drink dispensed and the first automatic cleaning cycle; variable value between 0-255'; 15' set up standard value.

1.5.c) Time programming between one cleaning cycle and the next

MACHINE PARAMETERS
AUTO CLEANING
T.O. REPETITION XX min

Where XX min indicates the set up time in minutes passed between the first automatic washing and the next one; variable value between 0-255'; 180' set up standard value.

1.6) Programming rinse after milk dose.

RINSE AFTER MILK DOSE
XXXXXXX

Where XXXXXXX indicates:
ENABLED (the machine automatically carries out a rinse after milk dose)
DISABLED (the machine does not carry out a rinse after milk automatically)

- If this parameter is enabled, a rinse at end of every dose milk based starts automatically.
- The start of the cleaning may be changed by programming a time pause, the following programation level will be displayed:

1.6a) Programming pause rinse after milk dose.

RINSE AFTER MILK DOSE
PAUSE AFTER MILK SEC. XXX

Where Sec. XXX indicates the time in seconds of the pause between the end of milk dose and the start of rinse; variable value between 3" - 10"; 3" set up standard value.

1.7) Automatic rinse milker machine in stand-by.

RINSE AFTER MILK STAND-BY
XXXXXXX

Where XXXXXXX indicates:
ENABLED (the machine automatically carries out coffee milker rinsing)
DISABLED (the machine does not carry out milker rinsing automatically)

If automatic cleaning is activated, the following programming levels are displayed:
1.7.a) Start time programming of automatic milker rinse after the last dose milk based.

RINSE AFTER MILK STAND-BY
PAUSE XX MIN

Where XX min indicates set up time in minutes passed between the last drink milk based dispensed and the first automatic rinsing cycle; variable value between 1'-10'; 10' set up standard value.

1.7.b) Time programming between one milker rinse cycle and the next.

RINSE AFTER MILK STAND-BY
REPETITION XX MIN

Where XX min indicates the set up time in minutes passed between the first automatic milker rinsing and the next one; variable value between 1'-180'; 180’ set up standard value.

1.8) M1 tools working time programming for maintenance

MACHINE PARAMETERS
TOOLS WORKING TIME 1 XXX

Where M1 XXX h indicates the time in hours of set up functioning for the grinder tools M1 ; variable value between 0-999; 300 set up standard value.

1.9) Water filter litre programming

MACHINE PARAMETERS
WATER FILTER LITRES XXXX

Where XXXX indicates the set up number of water filter litres; variable value between 0-15000; 5000 set up standard value.

WARNING:

XXXX (The machine works with the water filter; when the set up number of litres has been reached, the relevant message to renew the water filter is displayed)
00 (The machine works without counting water filter litres)

1.10) Group cycle number programming for maintenance

MACHINE PARAMETERS
GROUP CYCLES XXXX

Where XXXX indicates the set up number of group cycles; variable value between 0-65000

WARNING:

10000 (The number of group cycles is enabled; when the set up number of cycles has been reached, the relevant message to verify the group is displayed).
00 (The machine works without counting the number of group cycles).

If you set up a value higher than zero, the display shows:

MACHINE PARAMETERS
MACHINE SHUTDOWN XXXX

Where XXXX indicates:

YES (the machine shuts down when the set up number of cycles has been reached).
NO (the machine does not shut down when the set up number of cycles has been reached).
1.11) Group cycle number programming for manual group cleaning message

Where XXXX indicates the programmed group cycle number; variable value between 0-10000; 0 set up standard value.

**WARNING:**

XXX (The machine will display the message manual group cleaning when the set up cycle number has been reached)

0 (The machine works without counting the group cycle number)

1.12) Programming blocked deliveries message of group cleaning

This programming level is displayed, if a value higher than zero is inserted in the programming of the dispensing number message of group cleaning, the display shows:

Where XXXX indicates:

**ENABLED** a) coffee-based deliveries are disabled after 10 deliveries from display of the message

**DISABLED** b) the message is displayed without disabling deliveries

1.13) Dispensing number programming for milker cleaning message

Where XXXX indicates the programmed number of milk-based dispensing; variable value between 0-10000; 0 set up standard value.

**WARNING:**

XXX (The machine will display the message manual milker cleaning when the programmed dispensing number has been reached)

0 (The machine works without counting the milker dispensing number)

1.14) Programming of time out message of milker cleaning

Where X min. indicates the programmed time in min.; variable value between 0-60; 0 set up standard value.

**WARNING:**

XXX (The machine will display the message manual milker cleaning when the time set after the last milker dispensing is running out)

0 (The machine works without counting the time out)

1.15) Programming blocked deliveries message of milker cleaning

This programming level is displayed, if a value higher than zero is inserted in the programming of the dispensing number message of milker cleaning, the display shows:

Where XXXX indicates:

**ENABLED** a) milk-based doses are disabled after 10 deliveries from display of the message

b) milk-based deliveries are disabled when the timeout set after the last milker delivery has elapsed

**DISABLED** the message is displayed without disabling deliveries
1.16) Coffee temperature unit programming

MACHINE PARAMETERS
TEMPERATURE UNIT
X

Where X indicates:
°C (the machine works with temperature unit expressed in ° Centigrade).
°F (the machine works with temperature unit expressed in ° Fahrenheit).

1.17) Currency decimal number programming

MACHINE PARAMETERS
DECIMAL PRICES  X

Where X indicates the decimal number to display one price; variable value between 0-3 (1=decimal, 2= hundredth, 3 = thousandth); set up standard value 0.

1.18) Minimum currency unit programming

MACHINE PARAMETERS
SCALE OF PRICES  X

Where X indicates the value of the minimum currency unit that is being used; variable value between 1-65500; set up standard value 50.

1.19) Maximum credit programming of the credit card

MACHINE PARAMETERS
CARD MAXIMUM CREDIT
XXXXX

Where X indicates the maximum credit value that can be programmed on the credit card; variable value between 0- infinite; set up standard value 50.000.

1.20) Coffee boiler temperature programming

MACHINE PARAMETERS
COFFEE TEMPERAT. XX °Y

Where XX indicates the set up coffee boiler temperature and °Y indicates the unit expressed in ° Centigrade or ° Fahrenheit; variable value between 75-95 °C; 90°C set up standard value.

1.21) Steam boiler temperature programming

MACHINE PARAMETERS
STEAM TEMPERAT. XXX °Y

Where XXX indicates the set up steam boiler temperature and °Y indicates the unit expressed in ° Centigrade or ° Fahrenheit; variable value between 110-124 °C; 122 °C set standard value.

1.22) Programming of steam boiler heating time at each water filling up

MACHINE PARAMETERS
STEAM HEATER TIME
XX SEC

Where XX SEC indicates the time during which the heating of the steam boiler is automatically activated every time water is filled up into the steam boiler to reset the standard level; variable value between 0-15 "; 8" set up standard value.

WARNING:
This function has been implemented to avoid that the cold water, which is filled to reset the level, may cause the boiler temperature to drop.
1.23) Programming the Time-Out between one milk-based delivery and the next.
This level is enabled only for milk-based doses.

<table>
<thead>
<tr>
<th>MACHINE PARAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAITING TIME</td>
</tr>
<tr>
<td>MILK DOSE A-B XX min.</td>
</tr>
</tbody>
</table>

Where XX min. indicates the Time-Out in minutes between one milk-based dose and the next. Once it has elapsed, it will automatically increase the quantity of milk for the next dose.

PLEASE NOTE:
The milk lengthening programming parameter will only be displayed if you enter a number over zero.

1.24) Programming the milk lengthening time.
This level is enabled only for milk-based drinks.

<table>
<thead>
<tr>
<th>MACHINE PARAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADDITIONAL MILK XX s</td>
</tr>
</tbody>
</table>

Where XX s indicates the milk lengthening time in seconds of the first dose, which will be delivered as soon as the Time-out has elapsed, between one milk-based dose and the next, in order to obtain deliveries of the same volume.

PLEASE NOTE:
This level will be displayed only if you enter a number over zero in the Time-out programming parameter between one milk-based delivery and the next.

1.25) Programming of temperature drain stop of steam boiler

<table>
<thead>
<tr>
<th>MACHINE PARAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRAIN TEMPERAT. XX °Y</td>
</tr>
</tbody>
</table>

Where XX indicates the steam boiler temperature and °Y indicates the unit in ° Centigrade or ° Fahrenheit; variable value between 0-95 °C; 95°C set up standard value.

WARNING:
This function has been implemented to open the steam nozzle solenoid valve and release air from the boiler during the programming stage. The solenoid valve will remain excited until the set up temperature has been reached.

1.26) Sequential heating functions of coffee and steam boilers

<table>
<thead>
<tr>
<th>MACHINE PARAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEQUEN. HEATING XXXXXXX</td>
</tr>
</tbody>
</table>

Where XXXXXXX indicates:
ENABLED (the machine carries out a sequential heating of coffee-steam boilers with priority to the coffee boiler).
DISABLED (the machine carries out simultaneous, rather than sequential, heating).

1.27) Programming Button N°16 function

<table>
<thead>
<tr>
<th>MACHINE PARAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTTON N°16 FUNCTION XXXXXXX</td>
</tr>
</tbody>
</table>

Where XXXXXXX indicates:
CONTINUOUS (the N°16 button is enabled for continuous dispensing function, maximum value is ( see Continuous dispensing Paragraph)
GRINDER SHIFT (the N°16 button is enabled for grinder change function, ( see Grinder Change Function Paragraph)

1.28) Programming temperature probe type

<table>
<thead>
<tr>
<th>MACHINE PARAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEMPERATURE PROBE TYPE XXXX</td>
</tr>
</tbody>
</table>

Where XXXXXXX indicates:
100K (the machine is enabled for 100k probes, old version)
3K3 (the machine is enabled for 3k probes, new version)
ATTENTION: The software default value is 3k3. It is necessary to shift 100k in machines equipped with the old probes.

1.29) Programming maximum higher motor impulses

In this parameter, set the number of pulses corresponding to the maximum stroke of the upper motor, that you have previously noticed in the Manual Movements. (see position 2 on NT 0068)

1.30) Programming higher motor stand-by position impulses

In this parameter, set the number of pulses which will stop the upper motor stroke when moving to stand-by position. The default value is 20, i.e. the piston will stop its stroke 20 pulses before the mechanical end. (see position 3 on NT 0068)

1.31) Programming higher motor delivery position impulses

In this parameter, set the number of pulses which will stop the upper motor stroke when moving to dispensing position. For instance, if the maximum stroke is 575 pulses, you will set 555 pulses: the piston will stop its stroke 20 pulses before the mechanical end. (see position 4 on NT 0068)

1.32) Programming maximum lower impulses

In this parameter, set the number of pulses corresponding to the maximum stroke of the lower motor, that you have previously noticed in the Manual Movements. (see position 2 on NT 0068)

1.33) Programming lower motor stand-by position impulses

In this parameter, set the number of pulses which stops the lower motor stroke when moving to stand-by position. The default value is 20, i.e. the piston will stop its stroke 20 pulses before the mechanical end. (see position 3 on NT 0068)

1.34) Programming lower motor expelling position impulses
In this parameter, set the number of pulses which will stop the upper motor stroke when moving to expelling position. For instance, if the maximum stroke value is 552, you will set 532 pulses: the piston will stop its stroke 20 pulses before the mechanical end. (see position 4 on NT 0068)

2) GROUP CLEANING PROGRAMMING
Only the technician’s card can enter this programming level
The display shows:

```
SYSTEM PROGRAMMING
GROUP CLEANING
PROGRAMMING
```

Press the key N°16 (3.4.5…X) to display the available levels.
Press the key N°13 (1x) or N°14 (2x) to modify the level mode.
Press the key N°16 (3.4.5…X) to confirm the modification and shift to the next level
Press the key N°15 (gost2) to shift to the next level without saving carried out modifications.
Press the key N° 12 (gost1) to return to the previous environment and/or exit.

2.1) Water dose programming for automatic cleaning with detergent

```
GROUP CLEANING PROG.
WATER VOLUME   XXX CC
```

Where XX CC indicates the water quantity in cm³ set up for cleaning; variable value between 0-3000 CC; 300 CC set up standard value.

**WARNING:**
This programming level sets the water quantity, which will be dispensed at every stage of the cleaning cycle, except when the detergent is being wet.

2.2) Pause time programming during automatic cleaning with detergent

```
GROUP CLEANING PROG.
PAUSE    XX s
```

Where XX s indicates the pause time in seconds carried out by the coffee group cycle after inserting the detergent; variable value between 0-60 s; 30 s set up standard value.

**WARNING:**
This programming level sets the pause time between the stages of the washing cycle; this function has been implemented to optimise the action of the detergent.

2.3) Programming of cycle number

```
GROUP CLEANING PROG.
REPETITIONS    X
```

Where X indicates the number of the cycles carried out by the group during the cleaning cycle, variable value between 2-5; 2 set up standard value.

**WARNING:**
This programming level sets the number of cleaning cycles of the brewing chamber. During this stage the coffee group dispenses water with the opening of the group signal solenoid valve; this function has been implemented to optimise the washing of the group solenoid valve

3) MILKER CLEANING PROGRAMMING
Only the technician’s card can enter this programming level
The display shows:

```
SYSTEM PROGRAMMING
MILKER CLEANING
PROGRAMMING
```

Press the key N°16 (3.4.5…X) to display the available levels.
Press the key N°13 (1x) or N°14 (2x) to modify the level mode.
Press the key N°16 (3.4.5…X) to confirm the modification and shift to the next level.
Press the key N°15 (gost2) to shift to the next level without saving carried out modifications.
Press the key N° 12 (gost1) to return to the previous environment and/or exit.
3.1) Milker cleaning time programming

Where XX s indicates the Milker cleaning time in seconds; variable value between 1-120 s; 60 s set up standard value.

**WARNING:**
During Milker cleaning the solenoid valve opens at signals; this function has been implemented to optimise Milker cleaning.

4) SET-UP ENCODER
Only the technician’s card can enter this programming level
The display shows:

```
SYSTEM PROGRAMMING
SET-UP ENCODER
```

Press the key N°16 (3.4.5…X) to confirm the operation.
Press the key N° 12 (gost1) to return to the previous environment and/or exit.
The display shows:

```
GROUP MANUAL MOVEMENTS
HIGHER MOTOR         XXX
MOTOR EXPELLER
LOWER MOTOR           XXX
```

Where XXX indicates the impulses of the upper and lower motor.
Press the keys:
N°1 to move the upper piston
N°3 to move the lower piston

**Please Note:** this function allows to read the maximum strokes of the two pistons:
- starting from stand-by position, move the lower and upper motors to their mechanical ends of stroke (see position 1-2 on NT 0068).
- the maximum stroke of each piston is shown in the display by the related number of pulses.

5) GROUP MANUAL MOVEMENTS

**Please Note:** This function will be displayed only after having set the encoder
Only the technician’s card can enter this programming level
The display shows:

```
SYSTEM PROGRAMMING
GROUP MANUAL MOVEMENTS
```

Press the key N°16 (3.4.5…X) to confirm the operation.
Press the key N° 12 (gost1) to return to the previous environment and/or exit.

The display shows:

```
GROUP MANUAL MOVEMENTS
HIGHER MOTOR
MOTOR EXPELLER
LOWER MOTOR
```

Press the keys:
N°1 to move the upper piston
N°2 to move the expeller
N°3 to move the lower piston

**WARNING:**
Once the desired movement has been completed, by pressing the same button, the opposite movement is carried out.
6) TEST ACTUATORS

Access enabled with technical card.
The display shows:

SYSTEM PROGRAMMING
TEST ACTUATORS

Press key No. 16 (3.4.5…X) to confirm the operation.
Press key No. 12 (gost1) to return to the previous programming environment and/or exit.
The display shows:

TEST ACTUATORS

Press the key activating the actuator that you wish to check. (See the key reference table)
Press the previously pressed key again to stop the activated actuator from working.

PLEASE NOTE:
- you can activate more than one actuator at the same time.
- once a time-out of 10 seconds has elapsed, the activated actuators will be automatically interrupted.
7) SYSTEM DATA RESET INFO
The owner and technician’s cards can enter this programming level
The display shows:

SYSTEM PROGRAMMING
SYSTEM DATA
RESET INFO

Press the key N°16 (3.4.5…X) to confirm entering the environment.
Press the key N°13 (1x) or N°14 (2x) to display the available environments
Press the key N° 12 (gost1) to return to the previous environment and/or exit.
The display shows:

RESET INFORMATION
TOTAL DOSE RESET

RESET INFORMATION
GROUP CLEANING
XXXX

RESET INFORMATION
MILKER CLEANING
XXXX

RESET INFORMATION
GROUP CYCLES
XXXX

RESET INFORMATION
TOOLS TIME
M1 XXXX h

RESET INFORMATION
SYSTEM DATA
WATER FILTER LITRES
XXXX L

RESET INFORMATION
TOTAL GROUP CYCLES
XXXX L

WARNING:
1) The owner’s card can only enter total dose reset environment and water softener alarm reset.
2) Environments: group cycles, M1 tools time, and water filter litres will be displayed only if values higher than 000 (zero) have been set during the programming stage.

Descriptions of system programming environments of information reset.
7.1) Reset of total dispensing number carried out by selection buttons

RESET INFORMATION
TOTAL DOSE RESET

Press the key N°16 (3.4.5…X) to confirm the reset; the display shows:

INFO RESET
TOTAL DOSE RESET
CONFIRM RESET

Press the key N°16 (3.4.5…X) to confirm reset, the display shows in order:
Press the key N° 12 (gost1) to return to the previous environment and/or exit.

7.2) Reading-reset of automatic group cleaning number with detergent

Where XXXX indicates the number of group cleaning carried out. Press the key N°16 (3.4.5…X) to display the next level; the display shows:

Press the key N°16 (3.4.5…X) to confirm reset, the display shows:

Press the key N° 12 (gost1) to return to the previous environment and/or exit.

7.3) Reading-reset of milker cleaning number

Where XXXX indicates the number of milker cleaning carried out. Press the key N°16 (3.4.5…X) to display the next level; the display shows:

Press the key N°16 (3.4.5…X) to confirm reset, the display shows:

Press the key N° 12 (gost1) to return to the previous environment and/or exit.

7.4) Reading-reset of cycle number carried out by the coffee group

Where XXX indicates the number of group cycles carried out. Press the key N°16 (3.4.5…X) to display the next level; the display shows:

Press the key N°16 (3.4.5…X) to confirm reset, the display shows:

Press the key N° 12 (gost1) to return to the previous environment and/or exit.
7.5) Reading-reset of M1 tools working time

Where:
M1 XXXX h indicates the working time in hours carried out by the grinder 1

Press the key N°16 (3.4.5…X) to display the next level; the display shows:

Press the key N°16 (3.4.5…X) to confirm reset, the display shows:

Press the key N° 12 (gost1) to return to the previous environment and/or exit.

7.6) Reading-reset of water litre number regenerated by the water filter

Where XXX L indicates the total number of litres of the water filter.

Press the key N°16 (3.4.5…X) to display the next level; the display shows:

Press the key N°16 (3.4.5…X) to confirm reset, the display shows:

Press the key N° 12 (gost1) to return to the previous environment and/or exit.

7.7) Reading-reset of total cycle number carried out by the coffee group

Where XXX indicates the total cycle number carried out by the group.

WARNING:

a) This value can be reset only by means of a P.C.
b) Machine preset function does not reset the counter.
8) ALARM DATA MEMORY
Only the technician’s card can enter this programming level.
The display shows:

| SYSTEM INFORMATION | ALARM DATA MEMORY |

Press the key N°16 (3.4.5…X) to display the available levels.
Press the key N°13 (1x) or N°14 (2x) to display alarm data memory.
Press the key N° 12 (gost1) to return to the previous environment and/or exit.
The display shows:

| ALARM DATA MEMORY | X  YYYYY Z |

Where:
X is the alarm number; X=1 latest alarm.
YYYYY is the description of the alarm.
Z is the number of times the alarm occurred in a row (2-255)

Press key No. 16 (3.4.5…X) to memorize the alarm control performed.

| ALARM DATA MEMORY | X  YYYYY Z ♦ |

Where:
♦ indicates that the alarm has already been inspected by the technician.

WARNING:
a) The maximum alarm number the machine can save is 10.
b) To reset the alarm data memory, carry out “preset machine” procedure.

The alarms that will be saved in case of breakdown are the following:
1) Upper group motor alarm
2) Lower group motor alarm
3) Steam boiler filling up alarm
4) Boiler minimum level alarm
5) Volumetric meter time-out alarm
6) Coffee boiler temperature alarm
7) Steam boiler temperature alarm

Press the key N° 12 (gost1) to return to the previous environment and/or exit.

9) SMART CARD PROGRAMMING
The display shows:

| SYSTEM PROGRAMMING | SMART CARD PROGRAMMING |

Press the key N°16 (3.4.5…X) to confirm entering the environment.
Press the key N°13 (1x) o N°14 (2x) to display the available environments.
Press the key N°16 (3.4.5…X) to confirm entering the desired environment.
Press the key N° 12 (gost1) to return to the previous environment and/or exit.
The display shows:

| DEVICE CODE | XXXXX |
| WAITER’S CARD | CREATION |
| WAITER’S CARD | NUMBER RELEASE |
| OWNER’S CARD | CREATION |
NOTE:
- By DEVICE CODE it is meant the numerical code assigned to the machine. The device code is made up of 5 figures. The machine default device code is 21845.
- By CARD CODE it is meant the numerical code assigned to the card. The card code is made up of 5 figures. The card default code is 21845.
- By WAITER’S CARD N°XX is meant the number assigned to the waiter’s card. 25 cards are available, except when the same number has been assigned to different waiters.

WARNING:
- To use cards, the card and the device code have to be the same.
- If you use one card with a different code, after two failed attempts the card can no longer be used.
- The technician’s card does not have a device code; therefore it can be used in machines with different device code.
- If the number of waiter’s cards is over, the programming level of waiter’s card creation cannot be enabled. To enable it, it is necessary to release one number of the waiter’s card.
- Programmed smart cards can be converted into smart cards having different functions, except for the technician’s smart card.

Descriptions of the system programming environment of the smart card:

9.1) Device code display and modification

The owner and technician’s cards can enter this programming level. The display shows:

DEVICE CODE
XXXXX

Where XXXXX is the number of the device code assigned to the machine; the machine default device code is 21845.

Press the key N°16 (3.4.5…X), the display shows:

SYSTEM PROGRAMMING
SMART CARD PROGRAMMING

WARNING:
In case the technician’s card is inserted, by pressing the key N° 16 (3.4.5…X), the display shows:

MODIFY DEVICE CODE
X

Where the blinking X indicates the first figure to be modified. Press the key N°13 (1x) or N°14 (2x) to modify the figure. Press the key N°16 (3.4.5…X) to confirm the modification. Press the key N°15 (gost2) to enter the next level without saving the modification. Press the key N° 12 (gost1) to return to the previous environment and/or exit.

The display shows:

MODIFY DEVICE CODE
XXXXX

Where the blinking X indicates the second figure to be modified. Repeat the above operations for all the other figures.

When the modification procedure of the device code is over, the display shows:
9.2) Waiter’s card creation

The owner and technician’s cards can enter this programming level.

The display shows:

**WARNING:**

a) If you modify the device code, you also have to modify the code of the cards enabled to the machine use.
b) If you press the key N° 12 (gost1), you exit the programming level and all modifications carried out will be cancelled.

The owner and technician’s cards can enter this programming level.

The display shows:

Press the key N°16 (3.4.5…X) to confirm entering the environment.

The display shows:

Take out the owner or technician’s card, and insert the card to be programmed.

When the card to be programmed is inserted, the display will automatically show the machine device code:

Insert the code relevant to the card to be programmed, (the card code might be different from the device code).

To insert the card code, proceed as follows:

The blinking X number indicates the first figure of the code to be modified:

Press the key N°13 (1x) or N°14 (2x) to modify the figure.

Press the key N°16 (3.4.5…X) to confirm the modification.

Press the key N°15 (gost2) to enter the next level without saving the modification carried out.

Press the key N° 12 (gost1) to return to the previous environment and/or exit.

After having modified the first figure and confirmed the operation, the display shows:

Where the blinking X number indicates the second figure to be modified, etc. etc.

Repeat the above operations for all the other figures.

**WARNING:**

a) If the card is new, the card code to be entered is **21845**.
b) If the card has already been used in another device, you must necessarily remember the card code previously programmed; the operator has to remember the programmed code number of the card. Without the card code the card cannot be used.

Once the card code has been entered, the display shows:

Where XX indicates the available number of the waiter’s card to be assigned to the card itself.

Press the key N°13 (1x) or N°14 (2x) to modify the figure.

Press the key N°16 (3.4.5…X) to confirm the modification.

Press the key N°15 (gost2) to enter the next level without saving the modification carried out.

Press the key N° 12 (gost1) to return to the previous environment and/or exit.

**WARNING:**

a) The number of the available waiter’s cards is 25.
b) If a waiter’s number has already been assigned to one card, it will not be displayed.
c) If all the waiters’ numbers are already taken, the procedure of waiter’s card creation is not enabled.
d) To create new waiters’ cards, first release one waiter’s card number (see relevant procedure), and create the waiter’s card. Warning: in this case two waiters’ cards with the same number have been created.

Once the number of the waiter’s card has been entered, the display shows:
a) 

Take out the waiter’s card, the display shows:

Where XXXXXXX indicates
TECHNICIAN if the card inserted to enable the programming of waiter’s card was the technician’s
OWNER if the card inserted to enable the programming of waiter’s card was the owner’s

Insert the requested card, the display shows:

SYSTEM PROGRAMMING
SMART CARD PROGRAMMING

b) 

CARD CODE 
NOT VALID

This message is displayed if the inserted card code does not correspond to that of the card.
Remove the card to be re-programmed, the display shows:

Where XXXXXXX indicates
TECHNICIAN if the card inserted to enable the programming of waiter’s card was the technician’s
OWNER if the card inserted to enable the programming of waiter’s card was the owner’s

Insert the requested card, the display shows:

SYSTEM PROGRAMMING
SMART CARD PROGRAMMING

Repeat the procedure.

WARNING:
After 4 (four) failed attempts the card can no longer be used

c) 

BROKEN CARD

This message is displayed if one has repeatedly tried to programme the card and a wrong code has been entered. The card can no longer be used.

Press the key N°16 (3.4.5…X), the display shows:

SYSTEM PROGRAMMING
SMART CARD PROGRAMMING

9.3) Waiter’s card number enable / disable 

The owner and technician’s card can enter this programming level.
The display shows:

SYSTEM PROGRAMMING
ENABLE/DISABLE WAIT.CARD

Press the key N°16 (3.4.5…X) to confirm entering the environment.
The display shows:
Where N° XX indicates the number of the waiter’s card and YYYYYYYY indicates whether the card is free or blocked. Press the key N°13 (1x) or N°14 (2x) to display the desired card number. Press the key N°16 (3.4.5…X) to set the state of the card (BLOCKED - FREE) the display shows:

SYSTEM PROGRAMMING
ENABLE/DISABLE WAIT.CARD
N° XX FREE

Press the key N° 12 (gost1), the display shows:

SYSTEM PROGRAMMING
ENABLE/DISABLE WAIT.CARD

WARNING:

a) The number of the available waiter’s cards is 25.
b) The released number allows creating a new waiter’s card. Warning: in this case, it is possible to create a new card with the same number of an already card existing.c) If it is carried out the PRESET CONFIGURATION DATE, alls the waiter’s cards previously programmed will not be reset.

9.4) Owner’s card creation
The owner and technician’s card can enter this programming level.
The display shows:

OWNER’S CARD CREATION

Press the key N°16 (3.4.5…X) to confirm entering the environment.
The display shows:

INSERT CARD TO BE CREATED

Remove the technician or owner’s card, and insert the card to be programmed.
Once the card to be programmed has been inserted, the display will automatically show the machine device code:

CARD CODE X

Insert the code relevant to the card to be programmed, (the card code might be different from the device code). To insert the card code, proceed as follows:
The blinking X number indicates the first figure of the code to be modified:
Press the key N°13 (1x) or N°14 (2x) to modify the figure.
Press the key N°16 (3.4.5…X) to confirm the modification.
Press the key N°15 (gost2) to enter the next level without saving the modification carried out.
Press the key N° 12 (gost1) to return to the previous environment and/or exit.
After having modified the first figure and confirmed the operation, the display shows:

CARD CODE XX

Where the blinking X number indicates the second figure to be modified, etc. etc. Repeat the above operations for all the other figures.
WARNING:
a) If the card is new, the card code to be entered is 21845.
b) If the card has already been used in another device, you must necessarily remember the card code previously programmed; the operator has to remember the programmed code number of the card. Without the card code the card cannot be used.

Once the card code has been entered, the display shows:
a)  

FUNCTION OVER

Remove the owner’s card, the display shows:

INSERT CARD
XXXXXXXX

Where XXXXXXX indicates
TECHNICIAN  if the card inserted to enable the programming of waiter’s card was the technician’s
OWNER   if the card inserted to enable the programming of waiter’s card was the owner’s

Insert the requested card, the display shows:

SYSTEM PROGRAMMING
SMART CARD PROGRAMMING

b)

CARD CODE
NOT VALID

This message is displayed if the inserted card code does not correspond to that of the card.
Remove the card to be re-programmed, the display shows:

INSERT CARD
XXXXXXXX

Where XXXXXXX indicates
TECHNICIAN  if the card inserted to enable the programming of the waiter’s card was the technician’s
OWNER   if the card inserted to enable the programming of the waiter’s card was the owner’s.

Insert the requested card, the display shows:

SYSTEM PROGRAMMING
SMART CARD PROGRAMMING

Repeat the procedure.

WARNING:
After 4 (four) failed attempts the card can no longer be used

C)

BROKEN CARD

This message is displayed if one has repeatedly tried to programme the card and a wrong code has been entered. The card can no longer be used.
Press the key N°16 (3.4.5…X), the display shows:

SYSTEM PROGRAMMING
SMART CARD PROGRAMMING

9.5) Credit card creation
The owner and technician’s card can enter this programming level.
The display shows:

CREDIT CARD
CREATION

Press the key N°16 (3.4.5…X) to confirm entering the environment.
The display shows:

INSERT CARD
TO BE CREATED
Remove the technician or owner’s card, and insert the card to be programmed. Once the card to be programmed has been inserted, the display will automatically show the machine device code:

| CARD CODE | XXXXX |

Insert the code relevant to the card to be programmed, (the card code might be different from the device code). To insert the card code, proceed as follows:

1. The blinking X number indicates the first figure of the code to be modified. Press the key N°13 (1x) or N°14 (2x) to modify the figure.
2. Press the key N°16 (3,4,5...X) to confirm the modification.
3. Press the key N°15 (gost2) to enter the next level without saving the modification carried out.
4. Press the key N°12 (gost1) to return to the previous environment and/or exit.

After having modified the first figure and confirmed the operation, the display shows:

| CARD CODE | XXXXX |

Where the blinking X number indicates the second figure to be modified, etc. etc. Repeat the above operations for all the other figures.

**WARNING:**

a) If the card is new, the card code to be entered is 21845.
b) If the card has already been used in another device, you must necessarily remember the card code previously programmed; the operator has to remember the programmed code number of the card. Without the card code the card cannot be used.

Once the card code has been entered, the display shows:

a) SYSTEM PROGRAMMING
FUNCTION OVER

Remove the credit card, the display shows:

SYSTEM PROGRAMMING
INSERT CARD
XXXXXX

Where XXXXXXX indicates:
- TECHNICIAN if the card inserted to enable the programming of waiter’s card was the technician’s
- OWNER if the card inserted to enable the programming of waiter’s card was the owner’s

Insert the requested card, the display shows:

SYSTEM PROGRAMMING
SMART CARD PROGRAMMING

**WARNING:**
The credit amounts to zero, to insert the credit amount follow the proper procedure (see chapter).

b) SYSTEM PROGRAMMING
CARD CODE
NOT VALID

This message is displayed if the inserted card code does not correspond to that of the card. Remove the card to be re-programmed, the display shows:

SYSTEM PROGRAMMING
INSERT CARD
XXXXXX

Where XXXXXXX indicates:
- TECHNICIAN if the card inserted to enable the programming of waiter’s card was the technician’s
- OWNER if the card inserted to enable the programming of waiter’s card was the owner’s

Insert the requested card, the display shows:
Repeat the procedure.

**WARNING:**
After 4 (four) failed attempts the card can no longer be used.

c)  

This message is displayed if one has repeatedly tried to programme the card and a wrong code has been entered. The card can no longer be used.

Press the key N°16 (3.4.5…X), the display shows:

**9.6) Credit charge**

The owner and technician's card can enter this programming level.

The display shows:

Press the key N°16 (3.4.5…X) to confirm entering the environment.

The display shows:

Remove the technician or owner’s card, and insert the card where you want to programme the credit.

Once the card to be programmed has been inserted, the display will automatically show the machine device code:

Insert the code relevant to the card to be programmed, (the card code might be different from the device code).

To insert the card code, proceed as follows:

The blinking X number indicates the first figure of the code to be modified:

Press the key N°13 (1x) or N°14 (2x) to modify the figure.

Press the key N°16 (3.4.5…X) to confirm the modification.

Press the key N°15 (gost2) to enter the next level without saving the modification carried out.

Press the key N°12 (gost1) to return to the previous environment and/or exit.

After having modified the first figure and confirmed the operation, the display shows:

Where the blinking X number indicates the second figure to be modified, etc. etc.

Repeat the above operations for all the other figures.

**WARNING:**

a)  If the card is new, the card code to be entered is **21845**.

b)  If the card has already been used in another device, you must necessarily remember the card code previously programmed; the operator has to remember the programmed code number of the card. Without the card code the card cannot be used.

Once the card code has been entered, the display shows:

a)
CURRENT CREDIT XXXXXXX
ADD YYYYYYY

Where:
XX\[\[\text{XXXX}XX\[\] indicates the residual card credit
YY\[\[\text{YYYYYY}Y\[\] indicates the value that can be added to the card

Press the key N°13 (1x) or N°14 (2x) to modify the value to be credited.
Press the key N°16 (3.4.5…X) to confirm the modification.
Press the key N°15 (gost2) to enter the next level without saving the modification carried out.
Press the key N°12 (gost1) to return to the previous environment and/or exit.
The display shows:

SYSTEM PROGRAMMING
CARD CODE
FUNCTION OVER

Remove the created credit card, the display shows:

SYSTEM PROGRAMMING
INSERT CARD
XX\[\[\text{XXXXXXX}XX\[\]

Where \[\[\text{XXXXXXX}XX\[\] indicates:
TECHNICIAN if the card inserted to enable the programming of the waiter’s card was the technician’s
OWNER if the card inserted to enable the programming of the waiter’s card was the owner’s.

Insert the requested card, the display shows:

SYSTEM PROGRAMMING
SMART CARD PROGRAMMING

WARNING:
The value that can be inserted is determined by the difference between the maximum programming value of the card
(value that is fixed in the environment “system programming, machine parameters”) and the residual credit of the
inserted card.

\[\[c\[\]

CARD CODE
NOT VALID

This message is displayed if the inserted card code does not correspond to that of the inserted card.
Remove the card to be reprogrammed, the display shows:

SYSTEM PROGRAMMING
INSERT CARD
XX\[\[\text{XXXXXXX}XX\[\]

Where \[\[\text{XXXXXXX}XX\[\] indicates:
TECHNICIAN if the card inserted to enable the programming of the waiter’s card was the technician’s
OWNER if the card inserted to enable the programming of the waiter’s card was the owner’s.

Insert the requested card, the display shows:

SYSTEM PROGRAMMING
SMART CARD PROGRAMMING

Repeat the procedure.

WARNING:
After 4 (four) failed attempts the card can no longer be used.

\[\[c\[\]

SYSTEM PROGRAMMING
BROKEN CARD
This message is displayed if one has repeatedly tried to programme the card and a wrong card code has been entered. The card can no longer be used. Press the key N°16 (3.4.5…X), the display shows:

![System Programming]

9.7) Technician’s card creation
The technician’s card can enter this programming level. The display shows:

![Technician's Card Creation]

Press the key N°16 (3.4.5…X) to confirm entering the environment. The display shows:

![Insert Card To Be Created]

Remove the technician or owner’s card, and insert the card to be programmed. Once the card to be programmed has been inserted, the display will automatically show the machine device code:

![Card Code]

Insert the code relevant to the card to be programmed, (the card code might be different from the device code). To insert the card code, proceed as follows:
The blinking X number indicates the first figure of the code to be modified:
Press the key N°13 (1x) or N°14 (2x) to modify the figure.
Press the key N°16 (3.4.5…X) to confirm the modification.
Press the key N°15 (gost2) to enter the next level without saving the modification carried out.
Press the key N°12 (gost1) to return to the previous environment and/or exit.
After having modified the first figure and confirmed the operation, the display shows:

![Card Code]

Where the blinking X number indicates the second figure to be modified, etc. etc. Repeat the above operations for all the other figures.

**WARNING:**
a) If the card is new, the card code to be entered is 21845.
b) If the card has already been used in another device, you must necessarily remember the card code previously programmed; the operator has to remember the programmed code number of the card. Without card code the card cannot be used.

Once the code card has been entered, the display shows:

a)

![Function Over]

Take out the technician’s card, the display shows:

![Insert Technician's Card]

Insert the original technician’s card, the display shows:

![System Programming Smart Card Programming]

b)

![Card Code Not Valid]
This message is displayed if the inserted card code does not correspond to that of the card. Take out the card to be re-programmed, the display shows:

**INSERT TECHNICIAN’S CARD**

Insert the original card, the display shows:

**SYSTEM PROGRAMMING**
**SMART CARD PROGRAMMING**

Repeat the procedure.

**WARNING:**
After 4 (four) failed attempts the card can no longer be used

c) **BROKEN CARD**

This message is displayed if one has repeatedly tried to programme the card and a wrong code has been entered. The card can no longer be used.

Press the key N°16 (3.4.5…X), the display shows:

**SYSTEM PROGRAMMING**
**SMART CARD PROGRAMMING**

10) **PARAMETERS PRESET**
Only the technician’s card can enter this programming level
The display shows:

**SYSTEM PROGRAMMING**
**PRESET CONFIGURATION DATA**

Press the key N°16 (3.4.5…X).
The display shows:

**SYSTEM PROGRAMMING**
**PLEASE CONFIRM**

Press the key N°16 (3.4.5…X) to confirm the operation.
The display shows:

**SYSTEM PROGRAMMING**
**PLEASE CONFIRM**

After 5" the display shows:

**PRESET CONFIGURATION DATA POWER OFF AND POWER ON**

With this function, all the set up values and machine counters take the default values set up by the manufacturer.

**WARNING:**

a) By power off and power on, it is meant clearing and giving voltage to the machine.
b) After having carried out "PRESET CONFIGURATION DATA", when the machine is turned on the starting up stage of the machine will automatically be carried out (see “STARTING UP” chapter)
c) Press the key N° 12 (gost1) to return to the previous environment and/or exit.
11) FILES MANAGER

Access enabled with the technical card
The display unit displays

SYSTEM PROGRAMMING
FILES MANAGER

Press key 16 (3.4.5…X) to confirm access to the environment.

FILES MANAGER
DOWNLOAD

Press key 13 (1x) or 14 (2x) to display the available functions:

A)

FILES MANAGER
DOWNLOAD

This function can be used to download a new data configuration to the machine with the help of a cardisk.
Press key 16 (3.4.5…X) to confirm access to the operation.

FILES MANAGER
DOWNLOAD
FROM FILE: X

Where X shows the file number from which the new data configuration is to be downloaded.
Four file numbers are available.
Press key 16 (3.4.5…X) to confirm the choice, the display unit will display:

FILES MANAGER
DOWNLOAD
FROM FILE: X
REMOVE SMART CARD

Remove the technical card, the display unit will display:

FILES MANAGER
DOWNLOAD
FROM FILE: X
INSERT CARDISK

Insert the cardisk from which the new data configuration is to be downloaded to the machine.
The display unit displays:

FILES MANAGER
DOWNLOAD

Wait for about 60 seconds for the data download to be finished, the display unit displays:

FILES MANAGER
DOWNLOAD
POWER OFF – POWER ON

Remove the cardisk and power the machine down and then up. The display unit displays:

OFF

The operation is complete and the machine is ready for use with a new data configuration.

N.B.:
If the cardisk is removed during downloading the display unit displays :
Power the machine down and then up and repeat the procedure from the start.

B)

This function can be used to save a new data configuration on a cardisk, extracting it from the machine. Press key 16 (3.4.5…X) to confirm access to the operation.

Where X shows the file number to which a new data configuration is to be loaded. Four file numbers are available. Press key 16 (3.4.5…X) to confirm the choice, the display unit will display:

Remove the technical card, the display unit displays:

Insert the cardisk on which a new data configuration is to be saved. The display unit displays:

Wait for about 60 seconds for the data load to be finished, the display unit displays:

Remove the cardisk, the display unit displays:

Insert the technical card, the display unit displays:

The operation is complete and a new data configuration has been saved on the cardisk.

**N.B.:**
If the cardisk is removed during the loading operation the display unit will display:
Insert the technical card and repeat the procedure from the start.

**N.B.:**
The data configuration that is downloaded or saved is a total configuration of the machine that includes all the following data:
- dose programming
- total machine parameters
- alarms history
- delivery counts, cleaning, purifier litres, etc.

**12) UPDATE SOFTWARE**
Access enabled with the technical card
The display unit displays

```
SYSTEM MANAGER
UPDATE SOFTWARE
```

This parameter allows to download new software versions into the machine by means of a cyber card, see the following instructions to use the cyber card.

**TRANSFERING MACHINE SOFTWARE TO CYBER CARD**

In order to use the cyber card, you need to transfer the software version onto it. (only with EEPROM at Mbyte 128).
The software is transferred directly from a machine (Daytona 1 or 2-Power) with the correct software version installed (from V 3.00 onwards). To transfer software onto the cyber card, proceed as follows:

In the environment "SYSTEM MANAGER" the following parameter has been implemented to program the cyber card management:

```
SYSTEM MANAGER
UPDATE SOFTWARE
```

Press button N°16 (3.4.5…x) to confirm. The display shows:

```
UPDATE SOFTWARE DOWNLOAD
```

Press button N°14 (2X) to view “Load”. The following display appears:

```
UPDATE SOFTWARE LOAD
```

Press button N°16 (3.4.5…x) to confirm. The display shows:

```
UPDATE SOFTWARE REMOVE SMART CARD
```

Remove the smart card. The display shows:

```
UPDATE SOFTWARE INSERT CYBER CARD
```

Insert the cyber card. Once it has been identified, the transfer begins and the display shows the following:
The data transfer takes approx. 2 minutes.

Do not use the cyber card if the transfer is interrupted for any reason: voltage drop, card removal, etc.

When the operation is complete, the display shows the following:

```
UPDATE SOFTWARE
LOAD
```

The message "Remove Cyber Card " is only displayed in English and cannot be translated into other languages.

N.B. you can rewrite the cyber card and use it for further upgrades.

### UPGRADING MACHINE SOFTWARE USING CYBER CARD

In order to upgrade the software in an (Daytona1 or 2-Power) machine, proceed as follows:

The software can be upgraded in two ways:
1. By the System Manager procedure
2. When switching on the machine.

#### 1 UPGRADING SOFTWARE BY SYSTEM MANAGER PROCEDURE

In the environment "SYSTEM MANAGER" the following parameter has been implemented to program the cyber card management:

```
SYSTEM MANAGER
UPDATE SOFTWARE
```

Press button N°16 (3.4.5…x) to confirm. The display shows:

```
UPDATE SOFTWARE
DOWNLOAD
```

Press button N°16 (3.4.5…x) to confirm. The display shows:

```
UPDATE SOFTWARE
REMOVE SMART CARD
```

Remove the smart card. The display shows:

```
UPDATE SOFTWARE
INSERT CYBER CARD
```

Insert the cyber card. The display shows:

```
UPDATE SOFTWARE
DOWNLOAD
```
The data transfer takes approx. 4 minutes and 30 seconds. At the end of the operation, the display shows:

REMOVE CYBER CARD

The message “Remove Cyber Card” is only displayed in English and cannot be translated into other languages.

2 UPGRADE SOFTWARE WHEN SWITCHING ON THE MACHINE.

In order to upgrade software when switching on an Daytona1 or 2-Power machine, proceed as follows:

- With the machine off (motherboard not powered), insert the cyber card in the card reader.
- Switch on the machine. The display shows:

The software transfer starts automatically without any messages on the display. The software transfer takes approx. 4 minutes and 30 seconds. At the end of the operation, the display shows:

MEGAME REV. 3.01

followed by the message:

REMOVE CYBER CARD

The message “Remove Cyber Card” is only displayed in English and cannot be translated into other languages. The function ends when you remove the cyber card from the card reader.

PLEASE NOTE:

- a) The software upgrading operation must always end correctly so that the machine can work properly.
- b) If the procedure is interrupted by a drop in voltage or the removal of the cyber card from the card reader, you have to repeat the operation only in the following way: “upgrading software when switching on the machine”.
- c) If you use an incorrect cyber card or fail to insert it correctly in the card reader, the display alternates the following error messages:

ERROR CYBER CARD

FAULTY DATA

WARNING:

Every time that you switch on the machine, any smart-card must be inserted into the slot otherwise the display will show the following error message:

ERROR CYBER CARD

13) HISTORY HIGER MOTOR

The number of times the upper motor carries out encoder reset is stored in this parameter. Only the technician’s card can enter this programming level.

The display shows:

SYSTEM PROGRAMMING

HISTORY HIGER MOTOR

Press the key N°16 (3.4.5...X) to confirm the operation.

Press the key N° 12 (gost1) to return to the previous environment and/or exit.

The display shows:

HISTORY HIGER MOTOR Y XXX
Where:
Y  is the reset encoder number; Y=1 latest alarm.
XXX is the number corresponding to the cycle during which encoder reset occurred

14) HISTORY LOWER MOTOR
The number of times the lower motor carries out encoder reset is stored in this parameter.
Only the technician’s card can enter this programming level.
The display shows:

<table>
<thead>
<tr>
<th>SYSTEM PROGRAMMING</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY HIGER MOTOR</td>
</tr>
</tbody>
</table>

Press the key N°16 (3.4.5…X) to confirm the operation.
Press the key N° 12 (gest1) to return to the previous environment and/or exit.
The display shows:

<table>
<thead>
<tr>
<th>HISTORY HIGER MOTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
</tr>
<tr>
<td>XXX</td>
</tr>
</tbody>
</table>

Where:
Y  is the reset encoder number; Y=1 latest alarm.
XXX is the number corresponding to the cycle during which encoder reset occurred
1) Group movement board alarm.

Causes: a power or data transmission failure has occurred between the group movement board and the master board.
Effect: the machine is switched OFF.
Solution: make the following checks:
1) 18Vac power supply entry cabling (connector CN1) defective.
2) transmission cabling (connector CN2) defective.
3) fuse F2 (board stabilisers stage protection) blown or not properly in contact.

2) Time out impulses, upper piston motor

Causes: the upper motor encoder has not received impulses for 3 seconds, since the motor is not running
Result: the machine is switched OFF.
Solution: carry out the following controls.
1) Incorrect electric connections
2) Gear motor electric fault
3) Group movement card
4) Master card
5) Turn the machine in OFF mode and then turn it back on with the key N°11 (ON-OFF).

3) Time out impulses, lower piston motor

Causes: the lower motor encoder has not received impulses for 3 seconds, since the motor is not running the motor start has been recognised.
Result: the machine is switched OFF.
Solution: carry out the following controls.
1) Incorrect electric connections
2) Gear motor electric fault
3) Group movement card
4) Master card
5) Turn the machine in OFF mode and then turn it back on with the key N°11 (ON-OFF).

4) Too much coffee alarm

Causes: the upper piston has positioned itself where the wet seal of the piston gasket in the brewing chamber is not guaranteed.
Result: the machine is switched OFF.
Solution: carry out the following controls.
1) Reduce coffee quantity
2) Clean the upper piston gasket from any coffee residue
3) Check the upper piston alignment with the brewing chamber

Please Note: before any alarm, the upper piston tries to insert itself into the brewing chamber twice
5) Upper motor error alarm

Causes: a mechanical shutdown occurred to the gear motor or the upper piston encoder is not reading the impulses correctly.
Result: the machine is switched OFF.
Solution: carry out the following controls.
1) Gear motor defective
2) Gear motor not aligned with the brewing chamber
3) Encoder card fault
4) Incorrect electric connections
5) Master card
6) Encoder card fault
7) Turn the machine in OFF mode and then turn it back on with the key N°11 (ON-OFF).

6) Lower motor error alarm

Causes: a mechanical shutdown occurred to the gear motor or the upper piston encoder is not reading the impulses correctly.
Result: the machine is switched OFF.
Solution: carry out the following controls.
8) Gear motor defective
9) Gear motor not aligned with the brewing chamber
10) Encoder card fault
11) Incorrect electric connections
12) Master card
13) Encoder card fault
14) Turn the machine in OFF mode and then turn it back on with the key N°11 (ON-OFF).

7) Steam boiler filling alarm

Causes: the stage of boiler filling has exceeded the maximum time of 3 minutes; the level of the probe (SLC) has not been reached.
Result: the heating of the steam boiler is disabled.
Solution: carry out the following controls.
1) Level probe (SLC) dirty, thus isolated from the water (the complete filling of the boiler is checked)
2) No water from mains
3) Low water pressure
4) Faulty motor pump
5) Faulty filler solenoid valve
6) Incorrect electric connections (level probe (SLC) cord stopped, the boiler is filled completely).
7) Turn the machine in OFF mode and then turn it back on with the key N°11 (ON-OFF).

8) Steam boiler minimum level alarm

Causes: the water level in the boiler has dropped lower than the safety level (SLS).
Result: the heating of the steam boiler is disabled.
Solution: carry out the following controls.
1) Level probe (SLC) is earthen.
2) No water from mains.
3) Low water pressure.
4) Faulty motor pump.
5) Faulty filler solenoid valve.
6) Incorrect electric connections (safety probe (SLS) cord stopped).
7) Turn the machine in OFF mode and then turn it back on with the key N°11 (ON-OFF).

**WARNING:**
Selection buttons of milk-based doses, hot water and steam dispensing are disabled.

9) **Volume meter alarm**

![Volume meter alarm icon]

Cause: the volume meter is not sending signals to the control unit within a time-out of 5 seconds.
Result: dispensing continues up to a time-out of 120'' or until the selected key is pressed.
Solution: carry out the following controls:
1) No water from mains (coffee is not dispensed)
2) Clogged group piston filters (coffee is not dispensed)
3) Faulty group solenoid valve (coffee is not dispensed)
4) Clogged entrance filters (coffee is not dispensed)
5) Clogged or faulty volume meter (coffee is dispensed in continuous mode)
6) Faulty electric connection (coffee is dispensed in continuous mode).

Note: If coffee is dispensed continuously, use the machine as if it were manual: press the desired key to start the dose, then press the same key to stop the dose being dispensed, after checking the amount in the cup.

**WARNING:**
If dispensing continues until a time-out of 120'', when dispensing is over, the display shows:

![SELECT DRINK icon]

The message signals that a time-out problem of the volume meter occurred.
At the next dose the message will be cancelled, if dispensing is carried out correctly.

10) **Water softener alarm**

![SELECT DRINK icon]

Cause: the volume meter has reached the water litres previously set up (see chapter system programming machine configuration data).
Result: none.
Solution: renew the softener salts and cancel the alarm following the procedure explained in the chapter system programming – reset info.

11) **Tools maintenance alarm**

![SELECT DRINK icon]

Cause: the tools have reached the set up working time (see chapter system programming – machine configuration data)
Result: none.
Solution: replace the tools and cancel the alarm following the procedure explained in the chapter system programming info data reset.
12) Coffee boiler temperature alarm (too high)

Cause: the coffee boiler temperature has reached the maximum value of 105°C
Result: boiler heating is interrupted and the buttons of coffee-based, milk-based and filter drinks are disabled.
Solution: turn off the machine and then turn it back on. If the alarm sets off again, verify:
1) Faulty temperature level
2) Temperature level short circuit
3) Contacts of the electromagnetic switch of the coffee boiler stuck (high temperature in the boiler)
4) Temperature value, set up in the programming stage, too high
5) Software problem (carry out machine preset)
6) Faulty control unit
7) Turn the machine in OFF mode and then turn it back on with the key N°11 (ON-OFF).

13) Coffee boiler temperature alarm (too low)

Cause: the coffee boiler temperature has reached the minimum value of 60°C
Result: boiler heating is interrupted and the buttons of coffee-based, milk-based and filter drinks are disabled.
Solution: turn off the machine and then turn it back on. If the alarm sets off again, verify:

WARNING:

a) If the alarm sets off again, wait until the machine reaches the working temperature
b) If the machine is in OFF mode, the display shows:

It indicates that the heating up stage of the coffee boiler has exceeded 12’ time-out, verify:
1) Faulty temperature level
2) Temperature level stopped
3) Faulty electromagnetic switch
4) Temperature value, set up in the programming stage, too low
5) Too long and too fast dispensing
6) Software problem (carry out machine preset)
7) Faulty control unit
8) Turn the machine in OFF mode and then turn it back on with the key N°11 (ON-OFF).

14) Steam boiler temperature alarm (too high)

Cause: the steam boiler temperature has reached the maximum value of 129°C
Result: boiler heating is interrupted and the buttons of coffee-based, milk-based and filter drinks are disabled.
Solution: turn off the machine and then turn it back on. If the alarm sets off again, verify:
1) Faulty temperature level
2) Temperature level short circuit
3) Contacts of the electromagnetic switch of the coffee boiler stuck (high temperature in the boiler; the steam boiler safety valve might set in, see alarm description of steam boiler safety valve)
4) Temperature value, set up in the programming stage, too high
5) Software problem (carry out machine preset)
6) Faulty control unit
7) Turn the machine in OFF mode and then turn it back on with the key N°11 (ON-OFF).
15) Steam boiler temperature alarm (too low)

Cause: the steam boiler temperature has reached the minimum value of 105°C
Result: boiler heating is interrupted and the buttons of coffee-based, milk-based and filter drinks are disabled.
Solution: turn off the machine and then turn it back on.

WARNING:

a) If the alarm sets off again, wait until the machine reaches the working temperature
b) If the machine is in OFF mode, the display shows:

It indicates that the heating up stage of the coffee boiler has exceeded 12' time-out, verify:
1) Faulty temperature level
2) Temperature level stopped
3) Faulty electromagnetic switch
4) Temperature value, set up in the programming stage, too low
5) Too long and too fast dispensing of hot water quantity
6) The steam boiler safety thermostat has set in (see alarm description of steam boiler safety thermostat)
7) Software problem (carry out machine preset)
8) Faulty control unit
9) Turn the machine in OFF mode and then turn it back on with the key N°11 (ON-OFF).

16) Faulty data alarm

Faulty data alarm can occur in two cases:
1) Cause: during machine functioning
   Result: machine shutdown
   Solution:
   a) Verify programming data relevant to the operation that is being carried out. They might be varied and therefore the machine does not recognise the new data.
   b) Carry out "PARAMETERS PRESET" procedure (see chapter system programming configuration data preset).
2) Cause: software programming values or data incorrect, data inserted by means of P.C. programming incorrect.
   Result: machine shutdown.
   Solution:
   a) Verify inserted data.
   b) Insert new software by means of P.C.
   c) Carry out "PARAMETERS PRESET" procedure (see chapter system programming configuration data preset)

17) Group maintenance alarm

Cause: the group has reached the number of programmed cycles (see chapter system programming configuration data preset).
Result: none.
Solution: check the group and cancel the alarm following the procedure of the chapter system programming reset info system data.
18) **Machine shutdown alarm**

CAUSE: the group has reached the number of programmed cycles (see chapter system programming configuration data preset).
RESULT: the machine shuts down.
SOLUTION: check the group and cancel the alarm following the procedure of the chapter system programming reset info system data.

19) **Intervention of steam boiler safety thermostat**

CAUSE: Overheating of the steam boiler electric element occurred
RESULT: the thermostat blocks the supply of the electric element

**WARNING:**
Before the safety thermostat sets in, the alarm of the steam boiler temperature could set in:

1) Level probes are both earthen
2) Temperature probe stopped
3) Contacts of the heating electric switch of the coffee boiler are stuck
4) Software problem (carry out machine preset)
5) Faulty central unit

**WARNING:**
To activate the safety thermostat, it is necessary to press the button placed at the centre of the thermostat itself. The thermostat is placed on the rear part of the machine between the two boilers.

CAUSE: the water level in the boiler has dropped lower than the electric element.
RESULT: the heating is disabled.
SOLUTION: carry out the following controls.
1) level probe (SLC) and safety probe (SLS) are earthen.
2) level probe (SLC) earthen and electromagnetic switch with stuck contacts

20) **Intervention of steam boiler safety probe**

If the safety probe of the steam boiler sets in, the temperature of the steam boiler could be displayed:

CAUSE: overpressure in the steam boiler
RESULT: the 1.7-1.9 bar safety valve opens and releases steam in the upper part of the machine
SOLUTION: carry out the following controls.
1) Temperature probe of the steam boiler (see temperature alarm in the steam boiler)
2) Contacts of the electromagnetic switch of the electric element are stuck
21) **Manual group cleaning message**
When the number of programmed group cycle, the display shows manual group cleaning message

![SELECT DRINK]

Cause: the number of programmed group cycles has been reached.
Result: the display shows the relevant icon without shutting down machine functioning.
Solution: carry out manual group cleaning.

22) **Milker cleaning message**
When the number of dispensing carried out with the milker has been reached or when the programmed time out has run out, the display shows manual milker cleaning message

![SELECT DRINK]

Cause: the number of programmed milker dispensing has been reached, or the programmed time out is over.
Result: the display shows the relevant icon without shutting down machine functioning.
Solution: carry out manual group cleaning.

23) **Milker cleaning message with blocked deliveries**
In case milker cleaning message with deliveries block is enabled, (see machine parameters par.), the display shows:

![ATTENTION]

Cause: the set cycles have reached zero or the time programmed after the last milker delivery has elapsed (see machine parameters par.)
Result: milk-based doses are disabled
Solution: carry out manual milker cleaning.

24) **Group cleaning message with blocked deliveries**
In case milker cleaning message with deliveries is enabled, (see machine parameters par.), the display shows:

![ATTENTION]

Cause: the set cycles have reached zero (see machine parameters par).
Result: coffee based doses are disabled
Solution: carry out manual group cleaning.
1) **Calibrating of coffee boiler expansion valve**
To calibrate the working pressure (12 bar), of the coffee water boiler (see hydraulic diagram), rotate the rubber sitting holder connection of the expansion valve clockwise to increase it and anti-clockwise to decrease it.
The working pressure is displayed on the pressure gauge placed on the boiler itself (rear part), when the machine has a steady stand-by temperature.

2) **Coffee dispensing pressure calibrating (pump pressure)**
To calibrate the coffee dispensing pressure (8-9 bar max) rotate the pumping body screw, which is reachable from the machine left side in the rear lower part; rotate it clockwise to increase the pressure, and anti-clockwise to decrease it.

The coffee dispensing pressure is displayed on the gauge placed on the boiler itself, and can be seen from the machine left side in the rear upper part, when the machine is dispensing coffee.

3) **Coffee grinding degree calibrating**
To calibrate coffee grinding degree, rotate the grinder adjusting screw (see annex) clockwise to increase it and anti-clockwise to decrease it.

4) **Calibrating of coffee outlet flow adjustment**
To calibrate the dispensing speed and to optimise the quantity of coffee cream, rotate the rubber sitting holder connection of the coffee outlet regulator (see hydraulic diagram) clockwise to decrease it and anti-clockwise to increase it.

**Warning:**
If you change one of the parameters related to the points 2-3-4, check the other parameters again.
5) Milk frother setting
The machine has a control (RA) which sets the quantity of air needed for whisking milk. Turn the ring nut clockwise for denser foam (small bubbles), or turn it anticlockwise for more voluminous foam (large bubbles) (see diagram).

6) Cold – hot water mix flow adjustment for Tea.
The cold water mix solenoid valve adjustment screw must be adjusted as follows to change the amount of cold water that is mixed with the hot for making Tea:
- open the machine hatch and remove the black cap on the front.
- turn the adjustment screw on the solenoid valve in a clockwise direction to reduce the amount of cold water.
- turn the adjustment screw on the solenoid valve in an anticlockwise direction to increase the amount of cold water.
See FIG (a).
BODY DISASSEMBLY PROCEDURE

1) REMOVE THE PIN (18) AND USING THE POLE (7) THROUGH THE HOLE
2) REMOVE THE DRIP TRAY (19) AND DRIP GRID (11)
3) CLOSE THE HOPPER (35) WITH THE SHAFT (37) AND LIFT IT UP
4) UNSCREW THE TOP MACHINE SCREWS (55)
5) LIFT THE COVER AND UNPLUG THE DECAFF SENSOR
6) UNSCREW THE SCREW (2) AND REMOVE THE CUP HOLDER
7) REMOVE THE MILK BOTTLE HOLDER PUSHING IT (DIRECTION A) THEN TOWARDS THE BOTTOM SIDE (DIRECTION B)
8) REMOVE THE SIDE COVER PUSHING IT TO THE TOP MACHINE (DIRECTION C) PULL IT (DIRECTION D)
BOILER DRAINING PROCEDURE

To enter the boiler-draining environment, proceed as follows:
Turn the machine in OFF mode; wait until the boilers have cooled down and the pressure has dropped down to zero.
Dismantle the left side of the machine.
Place the draining pipe of the boiler you want to drain into the drip tray, then remove the tap.
Insert the technician’s smart card into the proper slit.
Press the key N° 12 (gost1), the display shows:

<table>
<thead>
<tr>
<th>BOILER DRAINING</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
</tr>
<tr>
<td>T2</td>
</tr>
</tbody>
</table>

The arrows turned downwards indicate the enabled buttons to choose the type of boiler draining:
Press the key N°1 to start coffee boiler draining (the solenoid valve of the group by-pass will be activated).
Press the key N°2 to start steam boiler draining (the solenoid valve of hot water will be activated).
The display shows:

<table>
<thead>
<tr>
<th>SOLENOID VALVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENABLED</td>
</tr>
</tbody>
</table>

Press the key N1 or N2 to stop the functioning of the enabled solenoid valve.
The display shows:

<table>
<thead>
<tr>
<th>BOILER DRAINING</th>
</tr>
</thead>
<tbody>
<tr>
<td>COFFEE</td>
</tr>
<tr>
<td>STEAM</td>
</tr>
</tbody>
</table>

Press the key N° 12 (gost1) to exit the procedure, the display shows:

| OFF |

It is absolutely necessary to cut off the machine voltage rating.

WARNING:

a) If at the end of the boiler automatic draining procedure the machine voltage rating is not cut off, when the machine is turned back on, the boiler charge will not be carried out according to the procedure described in the chapter “Starting up procedure”. The elements can get burned. To avoid this problem, it is absolutely necessary to preset the machine or disconnect the element power cords.
b) In case of voltage rating lack, automatic draining procedure is not possible.

SPECIAL MAINTENANCE

Special maintenance must be carried out periodically by the Authorised Service Centre in the following way:
Overhaul of the machine every 6 months with special attention to all automatic group components
Replacing the upper and lower piston filters every 10,000 cycles
Replacing the upper piston gaskets every 20,000 cycles or every 6 months
Replacing the lower piston gaskets every 20,000 cycles or every 6 months
Overhaul of the components of the automatic coffee group every 30,000 cycles or every 6 months
Replacing the grinder tools every 300-500 Kg. of coffee or 60,000 cycles. Intervention message for grinder tools maintenance programmable.
CONTROL UNIT LEGEND

**Motor card** (see electrical diagram)

**Functions of the fuses:**
F1 value: 4A type: T input 18Vac  
F2 value: 3.15A type: T motor stabilised input

Trimmer functions:
RV1 move this trimmer to raise or lower the threshold for activating the upper piston motor start. By turning clockwise, the threshold is raised, vice versa, the threshold lowers. Note that the adjustment range of the trimmer is ¾ of a turn, so make only slight movements on the adjustment screw.
RV2 move this trimmer to raise or lower the threshold for activating the lower piston motor start. By turning clockwise, the threshold is raised, vice versa, the threshold lowers. Note that the adjustment range of the trimmer is ¾ of a turn, so make only slight movements on the adjustment screw.

**Warning:** It is advisable not to vary the calibration of the above trimmer.

**Master card** (see electrical diagram)

**Functions of the fuses:**
F2 value: 80mA type: T interface I/O output  
F3 value: 500mA type: T BARMASTER output  
F4 value: 1A type: T CPU card stabilised input  
F5 value: 6.3A type: T relays common protection

**Functions of the jumpers**

<table>
<thead>
<tr>
<th>Jumper</th>
<th>enabled</th>
<th>disabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P2</td>
<td>Daytona 1-power</td>
<td>Daytona 2-power</td>
</tr>
<tr>
<td>P3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>---------------------------------</td>
<td></td>
</tr>
<tr>
<td>Y2.5</td>
<td>Hot water solenoid valve</td>
<td></td>
</tr>
<tr>
<td>Y2.3</td>
<td>Refill solenoid valve</td>
<td></td>
</tr>
<tr>
<td>Y2.7</td>
<td>Coffee group solenoid valve</td>
<td></td>
</tr>
<tr>
<td>Y2.2</td>
<td>By – pass solenoid valve</td>
<td></td>
</tr>
<tr>
<td>Y2.1</td>
<td>Steam milker solenoid valve</td>
<td></td>
</tr>
<tr>
<td>Y1.1</td>
<td>Air milker solenoid valve</td>
<td></td>
</tr>
<tr>
<td>Y2.4</td>
<td>Steam nozzle solenoid valve</td>
<td></td>
</tr>
<tr>
<td>Y2.6</td>
<td>Mix cold water solenoid valve</td>
<td></td>
</tr>
<tr>
<td>Y2.8</td>
<td>rinse milker solenoid valve</td>
<td></td>
</tr>
<tr>
<td>RA</td>
<td>Air Regulator for milker</td>
<td></td>
</tr>
<tr>
<td>PTC</td>
<td>Heating element</td>
<td></td>
</tr>
<tr>
<td>TRM</td>
<td>Trimmer</td>
<td></td>
</tr>
<tr>
<td>RD</td>
<td>Decaffeinated reed</td>
<td></td>
</tr>
<tr>
<td>RF</td>
<td>Dregs drawer reed</td>
<td></td>
</tr>
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