

ANNOTATIONS:

Programming manual

F600/F606 GK

V1-2021



ESSENTIAL COFFEE

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ESSENTIAL COFFEE



Note: this manual could be modified or updated without any forewarning obligation .

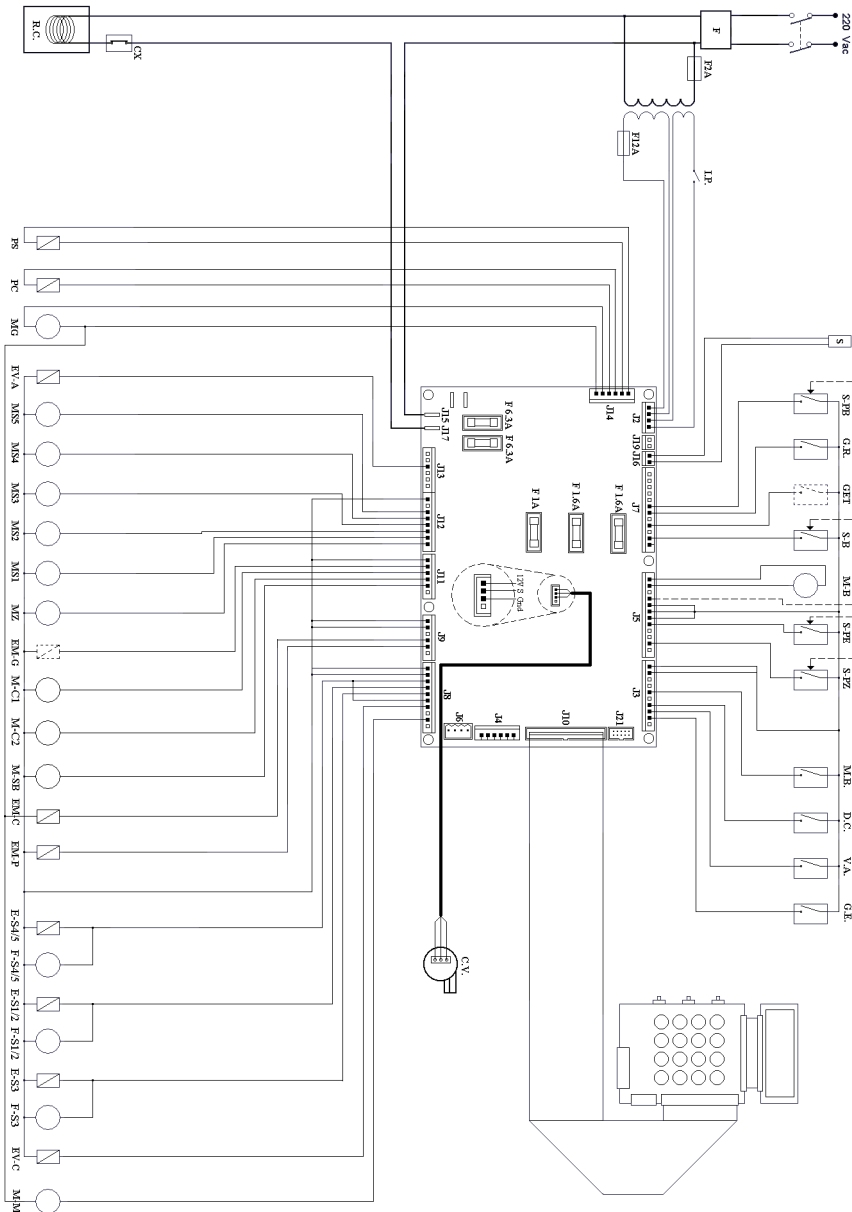
INDEX

Technical specifications-----	3
Installation -----	4
Working description -----	7
Programming -----	8
Standard menu -----	8
set drinks -----	9
set prices-----	10
counters & amounts-----	11
events -----	12
Special menu -----	14
set time -----	15
payment sistem-----	16
set temperature -----	17
options-----	18
1°level -----	19
2°level -----	20
set drinks -----	23
quick functions-----	27
Troubleshooter guide-----	28
Hydraulic circuit -----	29
Wiring diagram-----	30

WIRING DIAGRAM LEGEND

F	EMI filter
TR	transformer 230Vac / 24 – 20 Vac 170VA
I.P.	door safety switch
CX	safety thermostat 145°C
R.C.	boiler heating element 230V 1200W
G	tank float
μL	water reservoir level switch
RL	water reservoir refilling relay
D	pump diode
P	water reservoir pump
R.G.	espresso group heating element
V	centrifugal fan
CV	flow meter
PS	soluble pump
PC	espresso pump
MG	espresso group motor
EV-A	hot water electro valve
MS5	motor soluble 5
MS4	motor soluble 4
MS3	motor soluble 3
MS2	motor soluble 2
MS1	motor soluble 1
MZ	motor sugar
EM-G	electro coil coin system / obliterator
M-CB	cup turret motor
M-SB	cup releaser motor
EM-C	electro coil coffee releaser
EM-P	electro coil stirrers releaser
E-S4/5	soluble 4 and 5 electro valve
F-S4/5	soluble 4 and 5 mixer
E-S1/2	soluble 1 and 2 electro valve
F-S1/2	soluble 1 and 2 mixer
E-S3	soluble 3 electro valve
F-S3	soluble 3 mixer
EV-C	espresso electro valve
M-M	tea leaf motor (grinder motor)
S	boiler temperature probe
S-PB	“cup” position sensor
G.R.	“start” espresso group position sensor
GET	“token” micro switch
S-B	cup sensor
MB	cup-arm motor
S-PE	“supply” position sensor
S-PZ	“sugar” position sensor
M.B.	cup-releaser switch
D.C.	coffee measuring device switch
V.A.	lack water switch
G.E.	“supply” group micro switch

WIRING DIAGRAM



TECHNICAL SPECIFICATIONS

Dimensions: Height 184 cm
Width 66 cm
Depth 60 cm

Net weight: 160 Kg

Voltage supply: 230 Vac – 50 Hz o 120 Vac – 60 Hz on request

Absorbed power: 1,7 KW

Selections: Possibility to program up to 30 selections.

Payment system: predisposed for

- Obliterator / coin system 24Vdc
- Selector 12Vdc o 24Vdc
- Serial system Executive / MDB

Water connection: with internal tank 30lit.
with water system connection, 3/4 “ male fitting.

Cups capacity: up to 600

Stirrers capacity: n°600

Optional:

- Decalcification purifier

INSTALLATION

Before proceeding with the operations of installation, maintenance and repairs of the machine, read through carefully this manual. It contains all information for the correct use of the machine.

Install the machine in a dry and not dusty place.

Put to level the machine through the regulation of the feet.

ELECTRIC CONNECTION

Before connecting the machine to the power socket, follow with attention the following instructions:

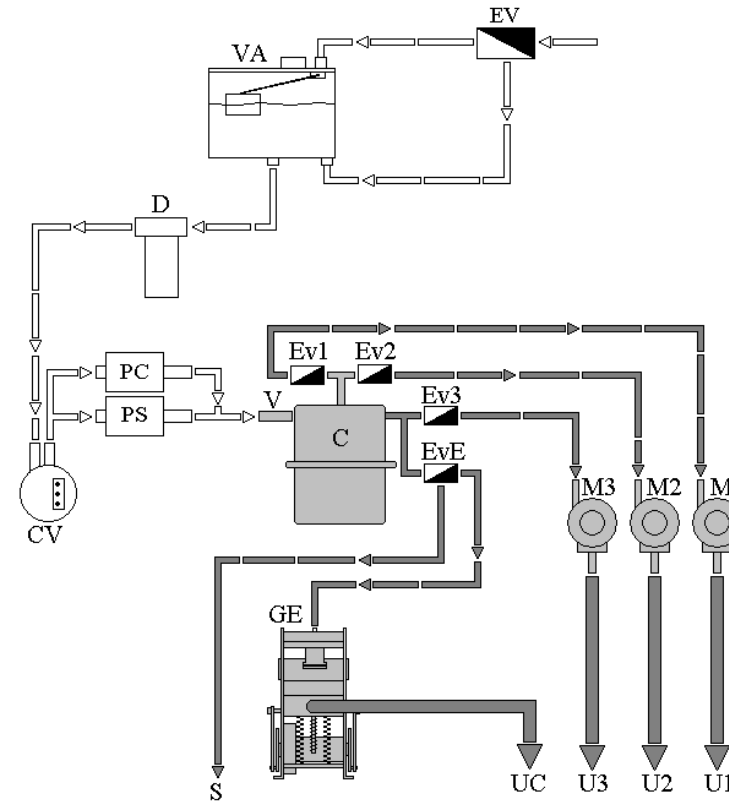
- Check that the electric line has got a suitable course for the absorbed power (1700W) .
- Check that the voltage corresponds to the one indicated on the plate positioned on the left side of the machine.
- The power socket has to have an efficient earth connection.
- In case of substitution of the feeding cable, use only original cables (ask to the manufacturer the special cable with connection type M)

The manufacturer will not assume any responsibility if these instructions are not respected.

The machine is provided with a main backlighted switch, positioned on the back side and a security switch positioned on the body, which cuts off the electric supply when you open the door. The feeding can be restored extracting the button (only technical staff) also if the door is open.

All electrical devices of the machine work with a feeding of 24 Vdc, except the boiler heating element and the transformer, which work with a supply of 230 / 115 Vac.

HYDRAULIC CIRCUIT



Legend:

EV	inlet electro valve or water bowl refill pump	UC	espresso outlet
D	lime scale filter	U1	mixer 1 outlet
VA	water bowl	U2	mixer 2 outlet
CV	flow meter	U3	mixer 3 outlet
PS	soluble pump		
PC	espresso pump		
V	one-way valve		
C	boiler		
Ev1	soluble 1&2 electro valve		
Ev2	soluble 3 & hot water electro valve		
Ev3	soluble 4&5 electro valve		
EvE	espresso electro valve		
M1	soluble 1&2 mixing group		
M2	soluble 3 mixing group		
M3	soluble 4&5 mixing group		
GE	espresso group		
S	espresso waste electro valve		

TROUBLESHOOTING GUIDE

The machine is provided with a program of self-diagnosis, which allows to visualize on the display the messages of machine breakdowns or blockings.

Message	Description	Probable causes
ERROR CUPS RELEASING	During the cup-releasing, the board has not received the change of state of the cup-releaser micro switch	Fuses, cups releaser motor, cups releaser micro switch, electronic board.
ERROR ARM 0	The electronic board has not received the position "sugar" of the cups arm signal by the respective sensor on the cup station board	Fuses, cup blocked in the cup arm, cup arm motor, position sensor, electronic board
ERROR ARM 1	The electronic board has not received the position "cup" of the cup-arm signal by the respective sensor on the cup-station board.	Fuses, cup blocked in the cup arm, cup arm motor, position sensor, electronic board
ERROR ARM 2	The electronic board has not received the position "supply" of the cup-arm signal by the respective sensor on the cup-station	Fuses, cup blocked in the cup arm, cup arm motor, position sensor, electronic board
ERROR SUPPLY GROUP	The coffee-group has not reached the position "supply" given by its right micro switch	Fuses, group right micro switch, group motor, electronic board
ERROR START GROUP	The coffee-group has not reached the position "start" given its left switch	Fuses, group left micro switch, group motor, electronic board
ERROR COFFEE FLOW	During the espresso supply, the board has not received signals from the flow meter	Fuses, too fine coffee, coffee pump, coffee electro valve, flow meter, electronic board
ERROR SOLUB. FLOW	During the soluble supply, the board has not received signals from the flow meter	Fuses, soluble pump, soluble electro valve, flow meter, electronic board
ERROR DOSAGE M1	During the coffee grinding, the board has not received the signal given by the measuring device switch in the maximum time of 25 seconds	Coffee run out, fuses, micro switch measuring device, grinder motor, impurities in the grinder, electronic board
LACK OF CUPS	The board doesn't receive the signal from the cup sensor	Lack of cups, cups sensor, electronic board.
LACK OF WATER	The board doesn't receive the signal from the float	Lack of water, float, water container micro switch, electronic board.
ERROR BOILER 1	The board has not received the programmed temperature value from the boiler probe in the maximum time of 15 minutes.	Safety thermostat, boiler heating element, electronic board
EMPTY GROUNDS	The coffee grounds counter has received the programmed value	To reset it see consult "quick function" no.5
ERROR EXECUTIVE	The board has not received the signals by the programmed payment system Executive or MDB.	Payment system, cables, electronic board.

HYDRAULIC CONNECTION

IMPORTANT

The manufacturer recommends to install a decalcification purifier, for this reason he doesn't assume any responsibility in case of lime scale problems.

WORKING WITH TANK

The machine is already programmed for the working with internal tank.

WATER SYSTEM CONNECTION

- Remove the suction pipe in the tank of the decalcification filter (if present) or of the flow meter.
- Connect the silicone pipe, coming from the water connection tank, to the decalcification filter or to the flow meter.
- Connect the wires to the electro valve coil, assuring that the provided diode-bridge is inserted between the grey wires and the coil.
- Verify that the pressure of the system doesn't overcome 2,5 bars, otherwise it is necessary to install a pressure reducing valve.
- Connect to the electro valve the water incoming pipe with a male fitting of $\frac{3}{4}$ ".

Remark: in case of restoring to the working with tank, be sure to have disconnected at least one wire of the electro valve coil with water connection, in order to avoid, idling, that it burns.

PRODUCTS LOADING

Fill up the containers of the products as specified on the labels of the containers.

CUPS LOADING

Remove the lock of the cups container and turn the latter towards the outside.
Load the columns of the cups.
Reinsert the container and put its lock again.

STIRRERS LOADING

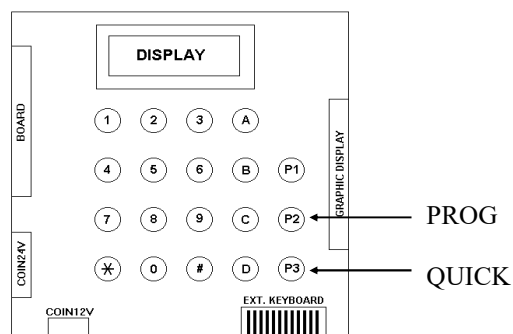
Load the container and position the stirrers weight above all of them to facilitate their expulsion until the last one.

PAYMENT SYSTEM CONNECTION

- VALIDATOR 12V connect to the keyboard connector COIN12V
- VALIDATOR 24V connect to the keyboard connector COIN24V
- EXECUTIVE / MDB connect to the respective cables, positioned near the keyboard.
- SINGLE IMPULSE SYSTEM (obliterator, token system, etc.) connect to the connector 6 poles on the back side of the machine.

After the electric connection, it is necessary to set into the program the chosen type of payment system. (consult page 16).

INTERNAL KEYBOARD



QUICK FUNCTIONS

In this selection it is possible to execute some of the most useful functions by the operator.

To access press the key “QUICK MENU” of the keyboard.

On display it will be shown “quick functions”.

Pressing the respective number, it is possible to execute the following functions:

1. **mixer cleaning**: a cleaning cycle for each mixer group will be executed
2. **temperature visualization boiler 1**: on display it will be indicated for 2 seconds the actual temperature of the boiler 1
3. **temperature visualization boiler 2**: on display it will be indicated for 2 seconds the actual temperature of the boiler 2.
4. **free mode working**: the function will be programmed for “free” mode. After 1 minute of inactivity the machine will turn back in normal working.
5. **reset grounds counters**: the counter “grounds number alarm” value, programmed in the level 2 “administrator”, will be reactivated. The message “empty grounds” will disappear and the machine will be active again.
6. **reset filter counters**: the counter “filter counter” value, programmed in the level 2 “administrator”, will be reactivated. The symbol “*” will disappear.
7. **test coffee group motor**: an electro mechanic test of the espresso group will be done. Pressing the key 7, the group motor will work intermittently, while keeping pressed the key, the motor will work continuously ‘til reaching the positions “supply” or “start”.
8. **reset coffee counter**: the coffee counter will be reactivated. Consult pag. 26.
9. **reset chocolate counter**: the chocolate counter will be reactivated. Consult pag. 26.
0. **general counter visualization**: for 3 seconds it will be visualized the general counter of the machine. This counter cannot be reset.

Movements n°38 and 39 (Coffee & chocolate counters)

The movements n°38 (coffee counter) and n°39 (chocolate counter), were present, decrease the respective counter.

To introduce the counter value it is sufficient to modify the value of one selection in which it is contained, automatically it will change also the other selections.

The parameter “type” if programmed with 0, each reset of the counter (consult quick functions), restarts from the programmed value, while if it is 1, each reset, the value of the counter will be the sum of the programmed value and the value previous to the reset.

Example with value= 100 and type=0

In case the counter will be reactivated when its value is 20, the new value of the counter will be 100.

Example with value =100 and type=1

In case the counter will be reactivated when its value is 20, the new value of the counter will be 120 (100+20).

In both cases, when the counter reaches 0, on display it will be shown “Machine ready without coffee” or “Machine ready without chocolate” or “Machine ready without coffee nor chocolate”, blocking the selections which contain the counters (movements 38 and 39).

WORKING DESCRIPTION

After having followed all instructions, it is possible to turn on the machine through the backlighted switch situated on the back side of the machine.

At the beginning, it appears on the display the message of the Software version, following the heating of the boiler will begin, which will be visualized with the message “HEATING”. This message will be replaced, to reached temperature, by the flowing message “ INSERT THE CREDIT AND SELECT YOUR DRINK...”.

IMPORTANT: We recommend to execute a manual cleaning as soon as the machine will be turned on, in order to load with facility the hydraulic circuit and the boiler.

See “quick functions” on page 27.

Sugar choice

This choice follows the drink choice within 5 seconds, with the keys “without sugar” and “extra”; during the choice it appears on the display the message “CHOOSE SUGAR” which will disappear once selected.

The function of the 2 keys and the Standard supply of sugar depend on the setting of the parameter “ACTIVATE STANDARD DRINK WITHOUT SUGAR” described on page 20.

The quantity of sugar is programmable for each drink, while the extra sugar is 50% more.

PROGRAMMING

There are 2 programming levels: a **Standard menu** and a **special menu**.

The Standard menu is useful for the user in order to regulate the dosage of the drinks, to set the prices, to set the strokes and to visualize the functions of the machine.

The special menu is useful for the technicians in order to set the various programs of the machine.

The keys used in the programming are the followings:

A (+) has got the function to increase or to advance in the program.

B (-) has got the function to decrease or to regress in the program.

C (esc) has got the function to exit

D (enter) has got the function to confirm

STANDARD MENU

This menu is accessible pressing the button PROG of the keyboard.

The following menus will appear on display:

- **SET DRINKS**
- **SET PRICES**
- **COUNTERS & AMOUNTS**
- **EVENTS**

To scroll the different menus use A (+) or B (-)

To enter the visualized menu press D (enter).

To exit from the program press C (esc).

- | | | |
|----|---------------------|---|
| 33 | LYOF. SOL4 SUGAR V. | a dosage of sugar and a water quantity will be released with volumetric control in the mixer of the solub. 4. |
| 34 | LYOF. SOL4 SUGAR T. | a dosage of sugar and a water quantity will be released with time control in the mixer of the solub. 4. |
| 35 | LYOF. SOLUBLE 5 | a powder quantity of the soluble 5 will be supplied (used for light powders). |
| 36 | LYOF. SOL5 SUAGR V. | a dosage of sugar and a water quantity will be released with volumetric control in the mixer of the solub. 5 |
| 37 | LYOF. SOL5 SUGAR T. | a dosage of sugar and a water quantity will be released with time control in the mixer of the solub. 5. |
| 38 | DECOUNTER COFFEE | the coffee counter will be decreased by one unit |
| 39 | DECOUNTER CHOC. | the chocolate counter will be decreased by one unit. |
| 46 | DOSAGE GRINDER 1 | the grinder 1 (tea leaf motor) produces one dosage of ground coffee (tea leaf) by time |
| 47 | DOSAGE GRINDER 2 | the grinder 2 produces one dosage of ground coffee by time. |
| 48 | CUP DECOUNTER | the cup decounter will be decreased by one unit. |
| 49 | WASHING GROUP | a washing group cycle will be performed |
| 50 | SOLUBLE 4-5 VOLUM. | the soluble 4-5 (motor 4, mixer 5) will be supplied with volumetric control of the water quantity. |
| 51 | SOLUBLE 4-5 TIME. | the soluble 4-5 (motor 4, mixer 5) will be supplied with time control of the water quantity. |

NOTE: it could be that some movements don't work, because they depend on the type of machine. Consult the manufacturer before adding new movements.

- To move the cursor of the movements selections use A and B
- To insert a new movement in the chosen position press “1”
- To eliminate a chosen movement press “2”
- To change a chosen movement press “3”
- To change the settings (e.g. dosage) press D

The movements are the following:

- | | | |
|----|----------------------|---|
| 01 | REALISING CUPS | the cups arm goes in position “cups” and one cup will be released by the “single” type dispenser. |
| 02 | SUPPLY POS. | the cups arm goes in position “supply”. |
| 03 | SUGAR POS. | the cups arm goes in position “sugar”. |
| 04 | GRINDER 1 START | the grinder 1 produces one dose of grinded coffee. |
| 05 | SOLUB.1 VOLUM. | the soluble 1 (milk) will be supplied with volumetric control of the water quantity |
| 06 | SOLUB.2 VOLUM. | the soluble 2 (chocolate) will be supplied with volumetric control of the water quantity. |
| 07 | SOLUB.3 VOLUM. | the soluble 3 (tea) will be supplied with volumetric control of the water quantity. |
| 08 | SUGAR DOSAGE | one dosage of sugar will be released |
| 09 | ESPRESSO 1 | one dosage of grinded coffee 1 will be released into the infusion chamber and an espresso coffee 1 will be supplied. |
| 10 | RELEASING STIRRERS | one stirrer will be released. |
| 11 | RESEARCH CUPS | it will be executed a research of the cups |
| 12 | GROUP STARTING POS. | the coffee group goes in starting position. |
| 13 | SOLUB.4 VOLUM. | the soluble 4 (decaff) will be supplied with volumetric control of the water quantity |
| 14 | SOLUB.5 VOLUM. | the soluble 5 (lyo normal coffee) will be supplied with volumetric control of the water quantity. |
| 15 | HOT WATER SUPPLY | a water quantity will be supplied. |
| 16 | GRINDER 2 START | the grinder 2 produces one dosage of grinded coffee. |
| 17 | PAUSE TYPE 1 | a pause will be executed |
| 18 | PAUSE TYPE 2 | a pause will be executed |
| 19 | PAUSE TYPE 3 | a pause will be executed |
| 20 | PAUSE TYPE 4 | a pause will be executed |
| 21 | ESPRESSO 2 | one dosage of grinded coffee 2 will be released into the infusion chamber and an espresso coffee 2 will be supplied.. |
| 22 | TIME SOLUB.1 | the soluble 1 (milk) will be supplied with time control of the water quantity. |
| 23 | TIME SOLUB.2 | the soluble 2 (chocolate) will be supplied with time control of the water quantity. |
| 24 | TIME SOLUB.3 | the soluble 3 (tea) will be supplied with time control of the water quantity. |
| 25 | TIME SOLUB.4 | the soluble 4 (decaff) will be supplied with time control of the water quantity. |
| 26 | TIME SOLUB.5 | the soluble 5 (lyo normal coffee) will be supplied with time control of the water quantity. |
| 27 | RELEASING CUPS CARO. | the cups arm goes in position “cups” and one cup will be released by the dispenser type “carousel”. |
| 28 | RESEARCH CUPS CAR. | it will be executed a research of the cups by the dispenser type “carousel”. |
| 29 | WATER TEMP. | a quantity of water will be supplied with time control. |
| 30 | SOLUB.6 VOLUM. | the soluble 6 will be supplied with volumetric control of the water quantity |
| 31 | TIME SOLUB.6 | the soluble 6 will be supplied with time control of the water quantity. |
| 32 | LYOF. SOLUBLE 4 | a powder quantity of the soluble 4 will be supplied (used for light powders). |



SET DRINKS

Entering the program with the button D, it will be shown the sequence of the existing drinks code

11-12-13-14-15-1
Sel.11

The flashing cursor points out the selected drink, to move it use the keys A to advance or B to regress; while you move the cursor it will be visualized in the following line the name of the chosen drink.

To change the parameters of the drinks code, press D. It will be shown a sequence of numbers, which correspond to the dosage of the selection, a price (P) and a name of the drink (MS).

08-09-P1-MS
DOSAGE SUGAR

As before, the cursor indicates the selected dosage; to move it use the keys A or B; it will be visualized in the following line the description of the selected dosage. To change the value, after having selected it, press D.

DOSAGE SUGAR
15

Use the numerical keys from 0 to 9 to introduce the desired value and confirm pressing D. To exit from the menu press C.

SAVE CHANGES?
YES=1 NO=3

Press “1” to confirm the changes or “3” to cancel them.

To modify the name of the drinks use the following keys:

- “1” to regress with the cursor on the letter.
- “2” to advance with the cursor on the letter.



“A” or “B” to change the letter

Example: change the water quantity of the coffee of the selection “long coffee” no.13

- Enter “set drinks” with D
- Position the cursor on the drinks code no.13 with the key A
- Enter with D the sequence of the dosage
- Position the cursor on the dosage no.9 with A
- Press D to enter the modification of the value
- Use the numeric keys to introduce the chosen value and press D to confirm it
- Press C to exit from the menu “dosage drinks”
- Press “1” to confirm the modifications
- Press C to exit from the menu “set drinks”

SET PRICES

In this menu it is possible to introduce 10 prices, to which the various selections are linked.

To select one price which have to be modified, use the keys A or B, to enter the modification of the value press D and introduce the value with the numeric keys, after that confirm with D.

If all prices have got a value 0, the machine will go automatically in “free mode”, indicating it on display.

SET DRINKS

Preamble: each selection or drink is programmed with a sequence of movements which correspond to a single operation of the machine. Each movement will be executed only after the correct execution of the previous one, contrary, on display will appear an error.

THE CORRECT SEQUENCE OF THE COMPOSITION OF THE SELECTIONS IS PROGRAMMED BY THE MANUFACTURER, THEREFORE WE RECOMMEND NOT TO MODIFY IT AS NOT TO COMPROMISE THE CORRECT WORKING.

Entering the program with D it will be visualized the sequence of the existing drinks code.

11-12-13-14-15-1
Sel. 11

The cursor indicates the drinks code, to scroll it use the key A to advance or B to regress; simultaneously with the movement of the cursor, it will be shown in the next line the name of the selection correspondent to the drinks code.

To modify the parameters of the drinks code press D. It will be visualized a sequence of numbers, each of one corresponds to one movement of the machine.

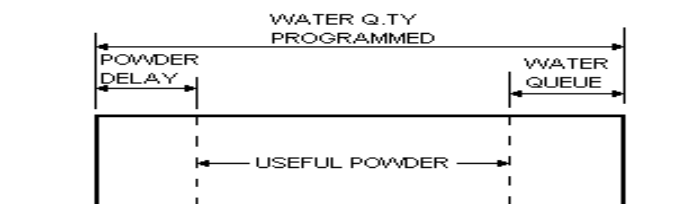
27-04-03-08-17-1
RELEASE CUPS

As for the drinks, the cursor indicates the movements code, therefore to move it use the keys A or B; in the following line it will be visualized the description of the movement.

Each drink is composed of one sequence of “movements”, of a price and of the menu of its name “MS”.

It is possible to eliminate or insert movements or change the settings where it is possible, as for example the dosages of the products.

Note 1: to avoid the blocks in the mixing group, the software controls the powder and water values in the way explained in the diagram.



LIST ELECTRICAL OUTPUTS

Nr	DESCRIPTION
0	Soluble pump
1	Espresso pump
2	Espresso group motor
3	Cups arm motor
4	Grinder 2
5	Tea Leaf Motor (Grinder 1)
6	Espresso ETV
7	Soluble 4 and 5 (lyo. and barley coffee) ETV and mixer
8	soluble 3 (tea) ETV
9	Soluble 1 and 2 (milk and chocolate) ETV and mixer
10	Not used
11	Stirrer releaser solenoid
12	1 grinded coffee releaser solenoid
13	2 grinded coffee releaser solenoid
14	Not used
15	Cup releaser motor
16	Not used
17	Cup column motor
18	Parallel payment system deactivated
19	Not used
20	Not used
21	Not used
22	hot water ETV
23	Not used
24	Sugar motor
25	soluble 1 (milk) motor
26	Soluble 2 (chocolate) motor
27	Soluble 3 (tea) motor
28	Soluble 4 (lyo. coffee) motor
29	Soluble 5 (barley) motor

COUNTERS & AMOUNTS

It is possible to register the counters of the various selections and eventually reset them.

Press D to enter the menu:

TOTAL COUNTERS&AMOUNTS

total in normal working of counters and amounts (Pcs.) from the last zero resetting. To reset, press" #" and" 3" to confirm.

TEST MODE: TOTAL COUNTERS&AMOUNTS

total in test working of counters and amounts (Pcs.). To reset, press" #" and" 3" to confirm.

FREE MODE: COUNTERS&AMOUNTS

total in "free test" working of the done tests and of theirs "loss" in relationship to the price of the effected selections. To reset, press" #" and" 3" to confirm.

TOTAL IN PRICE-PERIOD 1

total of the loss and of the counters in the working in period 1 of price. To reset, press" #" and" 3" to confirm.

TOTAL IN PRICE-PERIOD 2

total of the loss and of the counters in the working in period 2 of price. To reset, press" #" and" 3" to confirm.

RESET COUNTERS?

Zero resetting of all the counters. Press "1" to reset or "3" to cancel.

EVENTS

It is possible to detect in this menu the last 100 operations of the machine. Entering the menu with D, it will be visualized the following screen:

DATE: hour and time ID:XX RESULT POS

The line of the date indicates the hour and the date of the operation.
ID indicates the type of operation, which can be a drink code or an internal operation of the machine (see chart).
RESULT indicates if the operation has got a good result (GOOD) or on the contrary it occurs an error (Ennn): “nnn” indicates the type of error (see chart).
POS indicates the position of the operation (from 1 to 100).
To scroll the different operations use the keys A or B.

Internal operations

94 espresso group positioning
95 cups searching
96 numbers of strokes reached for the counter filter
97 refilling boiler 1
98 refilling boiler 2
99 cleaning

Error codes

E100	arm-cup positioning in position “sugar”
E101	arm-cup positioning in position “cup”
E102	arm-cup positioning in position “supply”
E103	espresso group positioning in position “start”
E104	espresso group positioning in position “supply”
E105	coffee espresso supply
E106	soluble supply
E107	coffee grinding grinder 1
E108	coffee grinding grinder 2
E110	releasing cups
E111	lack of cups
E112	lack of water
E113	boiler temperature 1
E114	boiler temperature 2
E115	coffee grounds counter
E116	boiler 1 off by timer
E117	boiler 2 off by timer
E118	heating boiler 1

SET NUMBER OF COFFEE GROUNDS

Counter for coffee grounds emptying. Once reached, the machine will show “EMPTY GROUNDS” and it will stop (see also at page 27).

REGULAR MODE COUNTERS&AMOUNTS

Regular mode counter. To reset it, press # and D.

TEST MODE COUNTERS&AMOUNTS

Test mode working counter. To reset it, press # and D.

FREE MODE COUNTERS&AMOUNTS

Free mode working counter. To reset it, press # and D.

TOTAL IN PRICE-PERIOD 1

Price-period 1 counter. To reset it, press “#” and D.

TOTAL IN PRICE-PERIOD 2

Price-period 2 counter. To reset it, press “#” e D.

RESET COUNTERS&AMOUNTS

Reset of all the counters above. Press “1” to confirm or “3” to cancel.

ENABLE SLAVE MACHINE

Enable the “slave” machine.

ENABLE TEMPERAT.ON DISPLAY:

Visualization of the boiler temperature on display .

SERIAL NUMBER

Set the serial number of the machine.

SET FLOWMETER

Set the factor for the flowmeter impulses (16 for d.1,8; 20 for d.1,2)

CAUTION ! OUTPUT TEST !:

Test of all the electrical output of the electronic board (see the LIST at page 22). Choose the output with A or B; to supply it, press D.

TYPE OF MACHINE

Set-up of the model of the machine.

WORKING BOILER 1

Activation boiler 1.

WORKING BOILER 2

Activation boiler 2.

OPTIONS: 2nd LEVEL (administrator)

After have inserted the correct password, that it initially is "222", you will enter the following menu:

MODIFY PASSWORD LEVEL 1

Insert the new password and press D to confirm.

MODIFY PASSWORD LEVEL 2

Insert the new password and press D to confirm.

SET DRINK

See "set drinks" chapter at page 23.

LOAD DEFAULT DATA

Original data loading. To confirm press "1" while to cancel press "3".

SET LANGUAGE

Language of all the message .

SET DELAY POWDER

Set the delay between the water and the powder, measured in cc if the movement is "volumetric" or in tenth of seconds if it is by time (see note 1).

SET WATER QUEUE

Reserve of water without powder at the end of the selection, measured in cc if the movement is "volumetric" or in tenth of seconds if it is by time (see note 1).

SET PAUSE ESPRESSO GROUP

Time for coffee grounds drying, measured in tenth of seconds.

ENABLE BITTER DRINK AS DEFAULT

Kind of sugar / no sugar drink.

If ENABLE, the drink will be without sugar and the buttons A and B will have the function of "sweet" and "extra sweet" respectively.

If DISABLED, the drink will be with sugar and the buttons A and B will have the function of "no sugar" and "extra sweet" respectively.

SET FILTER COUNTER

Counter for the limestone filter substitution. Once reached, the machine will show "*" on display but it will continue to work (see also at page 27).

E119

E120

E121

communication "executive / MDB"

communication at power on with system "executive / MDB"

heating boiler 2

SPECIAL MENU

To enter this menu, press the button PROG for 5 seconds.

The menu is configured with the following programs:

SET TIME

Setting of the clock and the execution of some functions.

SET PAYMENT SYSTEM

Setting of the payment system and its options.

SET TEMPERATURES

Programming of the temperatures and other functions regarding the boilers.

OPTIONS: INSERT PASSWORD

Access to the respective options of the programming level: user and administrator.

OPTIONS: LEVEL 1 (operator)

After have inserted the correct password, which initially is "111", the following menu will appear:

MODIFY PASSWORD LEVEL 1

Insert the new password and press D to confirm.

TEST MACHINE MODE

Set the machine in Test mode working.

FREE MODE

Set the machine in Free mode working.

SINGLE DRINK COUNTERS&AMOUNTS

Choose the id drink to analyse with A or B and D to confirm.

REGULAR COUNTERS

Regular working counter. To reset it, press “#” and D.

TEST MODE COUNTERS&AMOUNTS

Test mode working counter. To reset it press “#” and D.

FREE MODE COUNTERS&AMOUNTS

Free mode working counter. To reset it press “#” and D.

TOTAL IN PRICE-PERIOD 1

Price-period 1 counter. To reset it, press “#” e D.

TOTAL IN PRICE-PERIOD 2

Price-period 2 counter. To reset it, press “#” e D.

RESET COUNTERS&AMOUNTS

Resetting all the counters above. Press “1” to confirm or “3” to cancel.

NOTE: these counters are the same of the “frequent menu” ones (see page 11).

OPTIONS

This menu has got 2 different levels. Each is protected by a password:

1° level – USER - used by the user of the machine

2° level – ADMINISTRATOR - used by the technician / administrator of the machine

The machine has got 3 kinds of working, each one has got its own counter of receipts and strokes:

normal:	working with prices selections
test machine:	working with prices selections, but the credit doesn't go into the coin box (example: when the technician does tests with the machine and the payment system).
free test:	working with free selections.

Besides, when the time periods are active, there are two counters of strokes and receipts.

The counters of each level are independent, for this reason the reset of the counters of one level doesn't influence the counters of the other one.

SET TIME

Pressing D it is possible to enter the following menu:

SET DATE AND HOUR

Setting of the date and the present hour

SET TIMER BOILER 1 ON/OFF

On/Off of the boiler 1

ACTIVATION TIMER BOILER 1

Activation timer boiler 1.

SET TIMER BOILER 2 ON/OFF

On/Off boiler 2

ACTIVATION TIMER BOILER 2

Activation timer boiler 2

TIMER AUTOMATIC CLEANING 1

Time setting to execute automatically the 1st mixer cleaning

ACTIVATION AUTOMATIC CLEANING 1

Activation 1st automatic cleaning

TIMER AUTOMATIC CLEANING 2

Time setting to execute automatically the 2nd mixer cleaning

ACTIVATION AUTOMATIC CLEANING 2

Activation 2nd automatic cleaning

The times can be set using the numeric keys.

The activation and the deactivation will be set respectively through the keys A and B.

To confirm the modification press D, and to exit the menu press C.

The settings regarding the boilers 1 and 2 work only in case they exist (it depends on the machine type).

PAYMENT SYSTEM

The followings programs compose this menu:

SET COIN VALUE PARALLEL SYSTEM

Setting of the coin values (see note 1).

TIME 1ST PRICE PERIOD

Setting of the period 1 during which you can apply a discount.

1ST PRICE-PERIOD DISCOUNT

Value of discount to apply to the period 1.

TIME 2ND PRICE PERIOD

Setting of the period 2 during which you can apply a discount.

2ND PRICE-PERIOD DISCOUNT

Value of discount to apply to the period 2.

DECIMAL POINT

Setting of the decimal point to be applied coin and prices to the values.

NAME OF CURRENCY

Setting of the currency name.

SINGLE SALE NO CHANGE GIVEN

Setting of the sale without maintenance of the residual credit.

MAXIMUM CHANGE GIVEN

Maximum value of credit to be given (for MDB change-giver systems only).

TYPE OF PAYMENT SYSTEM

Type of payment system used on the machine (see note 2).

After have programmed the type of system of payment, it is necessary to go out of the program with C and switch off the machine.

Note 1: this menu is only valid for parallel selectors.

To memorize the values coin proceed in the following way:

- Set the value of the coin to accept with the numerical buttons
- introduce the coin in the selector
- if accepted, on the display the channel will appear on which is programmed
- press D to confirm the memorization.
- Repeat the procedure for the other coins.



SET TEMPERATURES

The menu is configured with the following programs:

SET TEMPERATURE BOILER 1

Value of the boiler temperature 1

SET TEMPERATURE BOILER 2

Value of the boiler temperature 2

TIME OVERHEATING BOILER C1

Stopped machine, after this the boiler 1 will be overheated

RISE TEMPERATURE, OVERHEATING BOILER C1

Value of the temperature rise boiler 1.

TIME OVERHEATING BOILER C2

Stopped machine, after this the boiler 2 will be overheated

RISE TEMPERATURE, OVERHEATING BOILER C2

Value of the temperature rise boiler 2.

RESET TIME BOILER 1

After this time, the pump refills the boiler 1 with water

DURATION RESET BOILER 1(S/10)

Duration of refilling the boiler 1 in tenth of seconds.

RESET TIME BOILER 2

After this time, the pump refills the boiler 2 with water

DURATION RESET BOILER 2(S/10)

Duration of refilling the boiler 2 in tenth of seconds.

Where no boiler is present, the respective parameters don't influence the final working.

