

Chapter 4

Programming and troubleshooting

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Programming

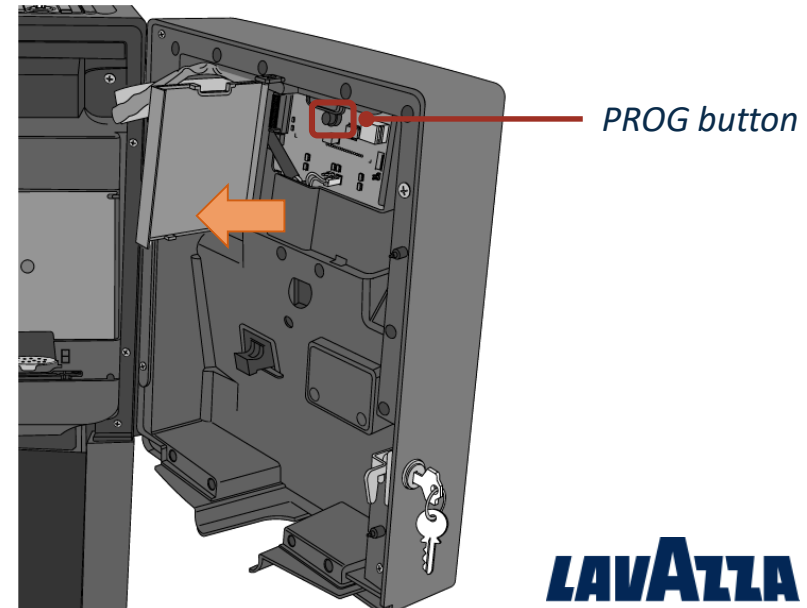
1 Access to programming mode

- Open the front door and insert the service key in the door lock.



- Open the display board hatch (on the inside of the door).

- Press the **PROGRAMMING** button.



Programming

2 Displaying the available Menus

When the **PROG button** is pressed, the display shows available options:

1= PROG 2= DATE
3= CLEANING

- 1= PROG (*Espresso key*)
 - Programming machine variables.
- 2= DATA (*Espresso macchiato key*)
 - Displaying the number of dispensed drinks.
- 3= CLEANING (*Long Espresso key*)
 - Enable washes (Dispensing unit, Mixer Set and Cappuccino spout).

To quit programming and save the changes made, press “**1 - ESPRESSO**” then “**PROG**”.

The display shows

PROGRAMMING END
PLEASE WAIT....

Note Should you wish to cancel the changes made, due to a mistake, it is advisable to switch off then back on the machine using the main switch before pressing “**PROG**”.

Programming

3

Navigation mode



1	MENU	Scroll forward
5		Scroll backward
2	VARIABLES (for each menu)	Scroll forward
6		Scroll backward
3	VALUE (of each variable)	Increase value
7		Decrease value

Menu 1= PROG : Functions

1= PROG

2= DATA

3= CLEANING

N key

Inhibit the dispensing keys, setting drinks doses (water/coffee/powder drinks sequence), selection names, mixer speed.

Prices

Manage and edit the selling prices by individual selection.

Coins

Set the type of coins to use a Validator.

Temperatures

Set temperature of the thermoblock (in °C), first coffee, energy saving delay.

Miscellaneous

Setting various options such as: machine ID, display language, installing and uninstalling procedure, rinse.

Diagnostics

Check installed sensors, test water circuit, display thermoblock temperature and 24V actuator voltage.

Sale data

Total and partial counters of selections made (name according to EVADTS standard).

Menu 1= PROG : Functions

1= PROG

2= DATA

3= CLEANING

MDB

Setting for payment system with MDB communication protocol.

Clock

Setting the machine switch on/off time. mixer washing.

Out of Order Record

Displaying the last twenty errors occurred in the machine.

Product decounter

Assigning a time credit (seconds) to the product motors, which is decreased at each dispensing. When the credit runs out, product selection is inhibited.

Maintenance

Setting alarm counters close to reaching certain thresholds (e.g. capsule emptying, filter change).

Progr. Grams / seconds

Conversion of product doses from grams to seconds.

Menu 2= DATA : Functions

1= PROG

2= DATA

3= CLEANING

Sale data

Displaying the number of dispensed drinks (total and partial).

Menu 3= CLEANING : Functions

1= PROG

2= DATA

3= CLEANING

Mixer

Cappuccino spout

Software update



On a USB drive, create a “RHEA” folder.



In the “RHEA” folder, create a “CPU05” folder and move there the new file version available.



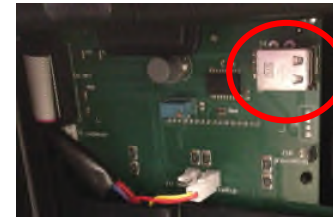
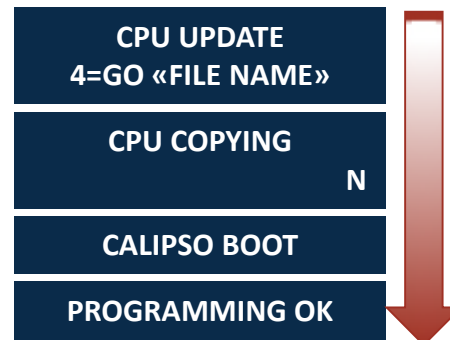
Switch off the machine and insert the USB drive in the DISPLAY Board.



Switch on the machine, the display shows “CPU UPDATE”. Press key “4”.



The following message sequence is displayed:



Switch off the machine and remove the USB drive. The new software has been successfully copied.

Troubleshooting

The display shows an error code that identifies the affected function and guides to the defective component or fault.

<u>OFF 5</u>	<u>EAROM</u>	CPU integrated circuits not working properly
<u>OFF 6</u> OFF 6	<u>Water supply</u> Refill water.	Water level low in the inner tank, or no water.
<u>OFF 7</u> OFF 7 A	<u>Volumetric counter</u> Water flow counting error in hydraulic circuit.	The volumetric counter is blocked or can not detect pulses in water flow to the thermoblock; display will show: "add water and turn off and on".
<u>OFF 8</u> OFF 8 A OFF 8 C OFF 8 N	<u>Capsule group</u> No coffee drinks. No coffee drinks. No coffee drinks.	The capsule unit motor is not detected or the motor is short-circuited or disconnected. The capsule unit fails to move within the pre-set period of time. The capsule unit fails to go up within the pre-set period of time.
<u>OFF 10</u>	<u>EAROM</u>	Stored data are not consistent (reading or writing error) and the overall operation of the vending machine may be otherwise than expected.
<u>OFF 16</u>	<u>Internal keyboard</u>	The PROG internal programming button is short-circuited or it has been held down too long.
<u>OFF 17</u>	<u>Selection keyboard</u>	A button appears as if it were constantly pressed.
<u>OFF 24</u> OFF 24 A OFF 24 B	<u>Power supply unit</u> 24 V dc 24 V dc	The actual 24 V dc voltage value is higher than the tolerated one. The measured 24 V dc voltage value is below the admitted threshold or totally absent, e.g. because a fuse has tripped; find out and remove the causes that have produced this error before powering on the machine again.
<u>OFF 33</u> OFF 33 A OFF 33 B OFF 33 C	<u>Temperature error</u> Temperature. Temperature. Thermoblock probe.	The thermoblock water temperature is higher than the programmed value. Water fails to achieve the set temperature. Sensor shorted or open.