damian ⊃

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LUCE X SNAC

INSTALLATION AND ASSISTANCE

PROGRAMMING

Handbook for assistance skilled personnel only
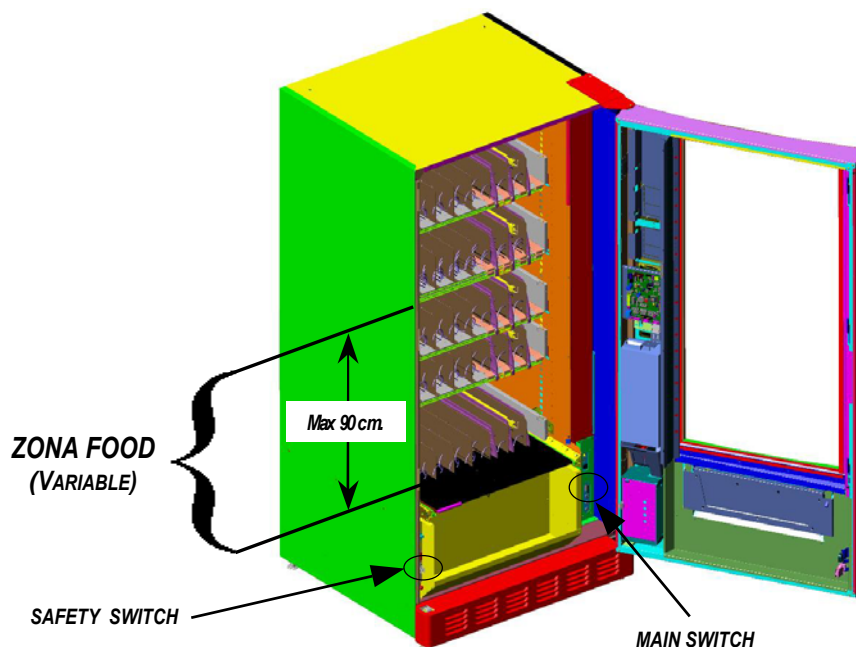
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- IDENTIFICATION AND TECHNICAL DATA

This handbook refers to automatic vendors with spirals **LS9** series **LUCE**, automatic vendor with the number of sections, of spirals and their type, which can change according to the model.

PICTURE 1

KEYBOARD

ZONA FOOD
(VARIABLE)

Max 90 cm.

PICTURE 2

SAFETY SWITCH

MAIN SWITCH
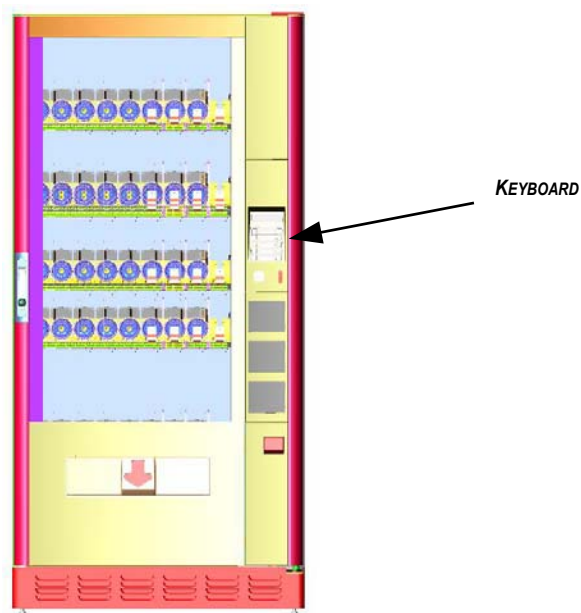
The use foreseen for the automatic vendor with spirals **LS9** series **LUCE** consists in distributing automatically solid product or solid confection and pre-manifactured, foods (Snack, drinks in bottle, etc) and not foods. For the alimentary products to assess that the confection is integral and that they are in good state of conservation in compliance with the applicable enforced norms regarding the conservation of the sold products.

Each model is produced in the following variations: **"-A"** for room temperature, **"-R"** for refrigerated temperature,**"-S"** with refrigeration plant *Super*, with the following characteristics:

Characteristics	Variations		
	LXS9B/x/xx-A	LXS9B/x/xx-R	LXS9P/x/xx-S
Electric feeding			
Voltage	220-230V~		
Frequency	50Hz		
max. absorbed power.	200 W	650 W	650 W
Protection	IP24 (suitable just for covered and protected places where it gets not wet or is not sprinkled by water jets)		
Refrigeration plant power	Absent	Standard	Super
Min. internal operating temperature	-	10 °C	2 °C (*) Only Food Zone
Environment			
Stockage temperature	0 ÷ 40 °C		
Work temperature	5 ÷ 32 °C		
max relative humidity	65 %		
Dimensions and weights			
Height	185 cm +/- 1 cm		
Width	89 +/- 1 cm		
Deepness	85 +/- 1 cm		
Max empty weight	250 Kg	300 Kg	300 Kg
Noisiness			
The automatic vendor emits an A-weighted sound pressure level inferior to 70 dB			

(*) **Food Zone** *(Variable)*= First 90 cm (maximum)low of the automatic vendor (See picture 2 Page 2).

- LEGEND OF SYMBOLS

Symbol	MEANING
⚡	**Warning**: necessary operation for people's safety
⚠	**Caution**: the operation can damage the machine or cause its malfunctioning.

- WARNINGS

The setting at work of the device must be carried out ONLY by **skilled service personnel**.
All transactions described in this book, especially all maintenance procedures concerning the electricity device must be carried out ONLY by **skilled service personnel**.

The vendor is equipped of a safety switch (see picture 2) that allows to only feed all the electrical parts workers to closed door. Acting on this switch is possible to supply the distributor also open door, for example to perform the Motors manual test, make sure that these moving parts (spirals) not be activated accidentally.

"This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety", "Children should be supervised to censure that they do not play with the appliance".
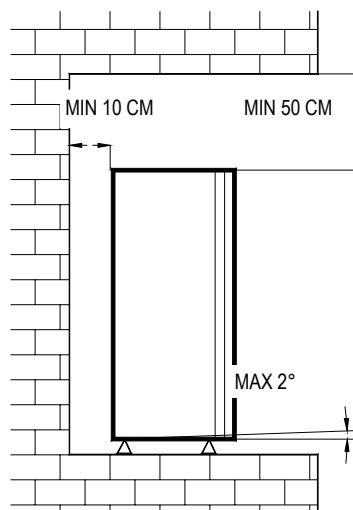
⚠️ Before each electric check, turn the *main switch* of the vendor on "OFF", (see picture 2).

- UNPACKING

To unpack the vendor act in this way:
Cut the transparent film that wraps the packing cardboard and remove the protection angles.
Free the keys which are tied up with the feeding cable in the back lower part of the vendor.

MIN 10 CM   MIN 50 CM

MAX 2°

PICTURE 3

To take away the support woods lift up the vendor with a forklift truck (with working loading capacity at least of 350 kg. and lifting height of 25 cm from the ground) and take off the two iron squares that block the vendor feet removing the fixing nails.

⚠️ **Install the vendor in covered or protected places where it cannot be invested by water jets**.

Put the vendor in the point where it will be installed controlling that there are **at least 10 cm. from the vendor back part to the wall and 50 cm. from the upper part to the ceiling, that the vendor inclination is not more than 2 degrees** and that the air can freely circulate in the back and upper part (see picture 3); the room should be also regularly airy.

The vendor must work in a room with a **minimum temperature of 5° C and a maximum one of 32°C**. Using the vendor out of these temperatures could cause its malfunctioning.

Adjust the vendor height and alignment by means of the feet with an 19 open key, the vendor is aligned when the door can be easily closed and the vendor is stable.

With the "wall fixing flasks " fitting it is possible to fix the vendor to the wall with two spacers (see picture 3A), installed as follows:

Screw from the upside

Wall fixing flasks

Drill and fix to the wall

Nut from the vendor inside
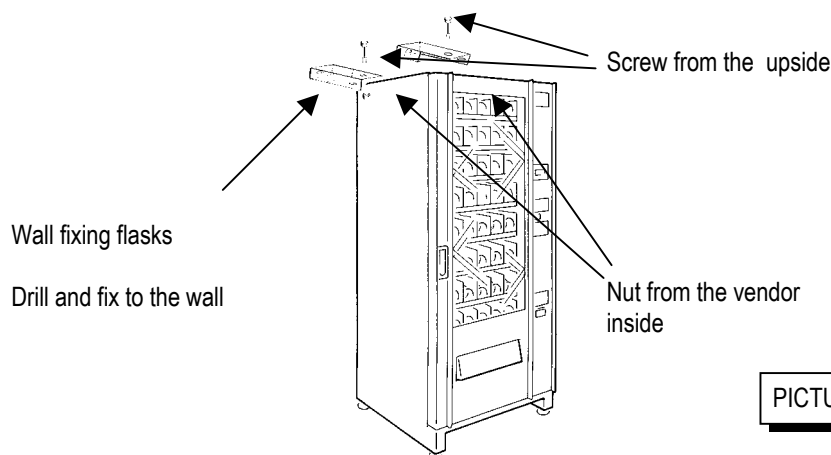
PICTURE 3A

Screw the "wall fixing flasks " on the vendor cover, (see picture) with a screw and a nut from the inside of the vendor, remove the first drawer at the bottom to reach the position.
- Place the vendor as you like and mark on the wall the position of the flasks.
- Drill the wall and fix the flasks with screw anchor, pay attention to the right position of the flasks.
- Place the vendor inside the flasks and fix it with the screws up and the nut down (inside of the vendor).

- FEEDING

The vendor must be connected just to earthed electric plants.

⚠ Before connecting the vendor to the net, check that the device is earthed, that the voltage is **220-230 Volt~**, that the tap to which the vendor must be connected is not damaged, that it is type-approved for at least 10 Amp. and that a multiple switch is installed on it, able to stop both feeding switches with one single opening (except for the earth wire) with an opening of the contacts for at least 3 mm. (the tap must be connected to an insulated differential switch).

Check the cable to find abrasions or other defects on the sheath or on the plug on the cable and if necessary replace it as explained in this handbook.

If necessary replace the electric input plug with another one suitable for the tap, with a min. capacity of 10 Amp. and type-approved, You can choose among these standard types:: S11, S17, S30, S31, SPA11, SPB11, SPA17, SPB17.

If it is necessary to replace the feeding plug, connect the inside wires of the feeding cable as shown in the following table, following the instruction given by the plug manufacturer.

⚠ Connect the inside wires of the feeding cable as shown in the following table, following the instruction given by the plug manufacturer.

CABLE COLOR	MEANING
yellow-green	Protection earth
blue	Neutral conductor
brown	Phase conductor

Check that the main switch (magneto-thermic) on the bottom of the box (see picture 4,) is "OFF" and insert the plug in the tap of the feeding net and turn the main switch on "ON".

Closing the vendor door, all electric parts will be on thanks to the pressure of the door on the safety.

- USE SAFETY SWITCH

The vendor is equipped of a safety switch (see picture 2) that allows to only feed all the electrical parts workers to closed door. When is necessary supply the vendor with the open door (for example for the loading of the products or for the programming) the safety switch can be activated inserting and turning of 90° the key adapted (the key is hung close the same switch). To disarm the safety switch (to remove the feeding to the electrical parts) to turn of 90° the key of the switch and to remove it from the safety switch.

- PROGRAMMING

For programming information, see the here enclosed "Programming **Sheet".**

- PAYMENT SYSTEMS:

⚠ The installation and the removal of the payment system have to be done with the feeding switched off, taking the main switch in position "OFF".

EXECUTIVE / MDB PAYMENT SYSTEM

KEYBOARD

DISPLAY

PAYMENT SYSTEM SUPPORT
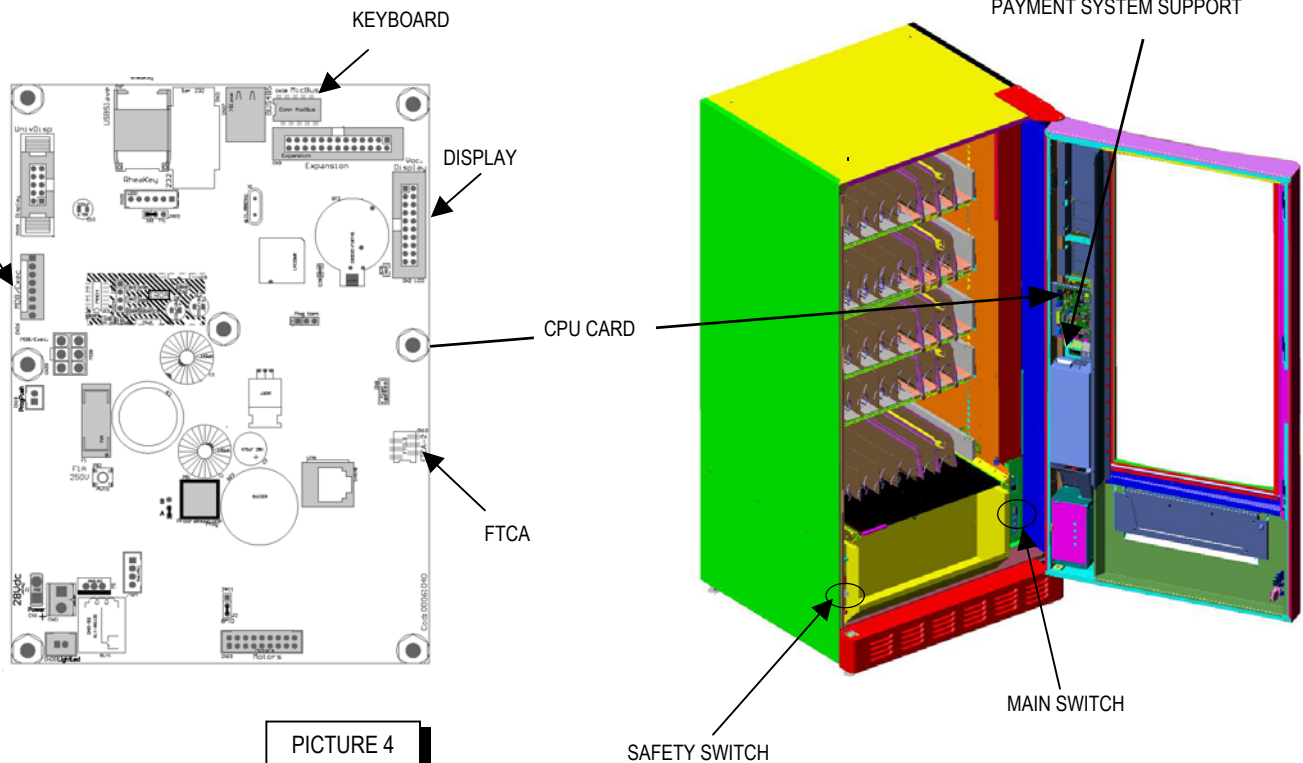
CPU CARD

FTCA

MAIN SWITCH

SAFETY SWITCH

PICTURE 4

24 VOLT SELECTOR

The selector must be completely compatible with the 24 Volt Standard Mars MS-130 selectors (ex. NRI G18, NRI G40, FAGE Selector 24V, COGES EUR 10 etc. etc.)

The selector and its Châssis with the chutes to canalize the coins are applied on the extracted slide through 3 supporting clutch pins.

Link the connector of the selector on the vendor CPU card paying attention to link it on the appropiate connector (see picture 4).

Close and feed the vendor then programm it to the functioning in Stepper (refer to the enclosure A "Programming sheet").

Insert the selling prices and eventually other programming data (refer to the enclosure A "Programming sheet").

The vendor is now ready to use.

SELECTORS WITH FRONTAL PLATE

The automatic vendor is electrically predisposed to the connection with a frontal plate selector completely compatible with the selectors NRI G13.

Link the connector of the selector on the back of the vendor display card paying attention to link it on the lower left connector (see picture 4).

Feed the vendor then programm it to the functioning in stepper (refer to the enclosure A "Programming sheet").

Insert the selling prices and eventually other programming data (refer to the enclosure A "Programming sheet").

The vendor is now ready to use.

EXECUTIVE PAYMENT SYSTEM

Link the feeding connector Molex with 15 female poles of the vendor (see picture 4) to the corresponding connector on the payment system (refer to documents of the payment system).

Connect the serial connector of the payment system to the CPU card by means of the fit adapter cable, connect the adapter cable to the right connector (see picture 4).

Close and feed the vendor, programm the vendor for the Executive functioning (as described in the enclosure A "Programming sheet"); turn off and turn on again the vendor and wait from 10 seconds to 2 minutes to be connected to the payment system. Remember to programm the value of every step (called also "*coin scaling factor*" or "*minimum coin*") to the same value already inserted during the payment system programming (refer to the documents of the payment system)

Insert the selling prices and eventually other programming data (refer to the enclosure A "Programming sheet").

The vendor is now ready to use.

- *PRODUCT SALE SENSORS (FTCA).*

The vendors LXS9 have (beside the pick up tank) an infra-red system to sense the passage of the product (the sale has occurred).

This infra-red system is composed by two infra-red led (see picture 5).

After each sale the FTCA card controls the passage of the product; in case it does not occur (missed sale) the vendor keeps the coins and allows another selection.

Picture 5

Infra red led
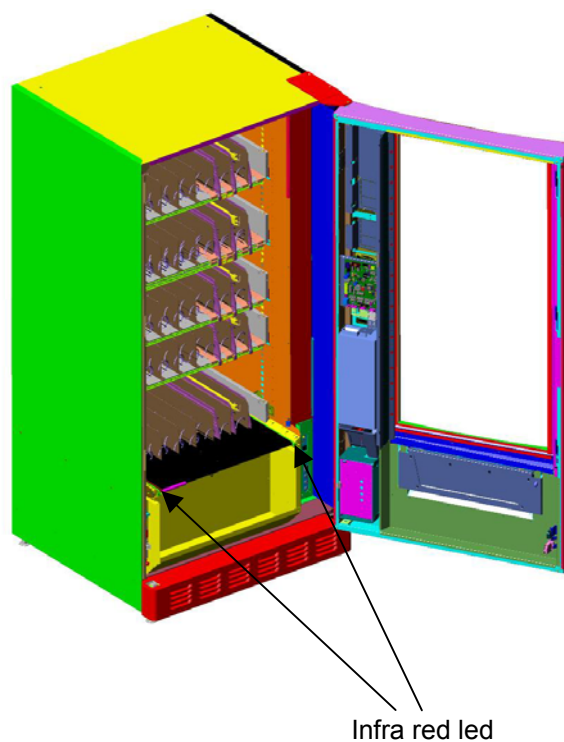
During the standard vendor operation the CPU card controls the sensors.

On each vendor start and before each sale, the FTCA system is tested and in case of anomaly the vendor is out of order (error "OFF 10") till the reset.

OVERTEMPERATURE CONTROL (JUST FOR MODELS LXS9P/x/xx – S)

To keep the sale products the vendor controls that the inside temperature does not exceed a threshold called **safety temperature** for a period longer than the **overtemperature time**;

The overtemperature is controlled through 3 parameters:

- **(A) Safety temperature**
- **(B) Overtemperature time** (set).
- **(C) Supply time**

The overtemperature is controlled just in *refrigerator configuration 2* , by setting the parameter *Safety temperature* at a value lower than 40 °C.

During the normal vendor operation, if the inside temperature exceeds the "safety temperature" " (A) for a period longer than the "Overtemperature time " (B), error "OFF 09" will appear , which blocks the first two drawers at the bottom of the vendor.

When the vendor is switched off, the date and the hour will be stored and also the overtemperature time (calculated), if the vendor was in overtemperature, is stored.

When the vendor is switched on, if it is still in overtemperature, the time of "vendor in Power-OFF"
(vendor off) will be calculated.

If the time of "vendor in Power OFF" is added to the "overtemperature time " (calculated) you get the
"Total overtemperature time ".

By comparing the **"Total overtemperature time "** with the sum of parameters
"Overtemperature time " (B) + **"Supply time"** (C) , the following conditions may appear:

1) *Total overtemperature time*   higher =   *Overtemperature time* **(B) +**
                                                         Supply time **(C)**

Error "OFF 09" will appear ,which blocks the first two drawers at the bottom of the vendor.

2) *Total overtemperature time*   lower   *Overtemperature Time* **(B) +**
                                                         Supply time **(C)**

Will be displayed for about 15 sec.: missing minutes, inside temperature, safety temperature.
(with missing minutes we mean the minutes within which the inside temperature must decrease under the safety temperature to avoid error "OFF 09").

In case of error "OFF 09", entering in programming you will be asked if you want to reset the error flag.

```
RESET OFF 9
(1):SI  (2):NO
```
Press key **1**   to reset
Press key **2**   to keep the flag

Warning: the values of these three parameters must be set according to the standard rules in force. Regarding the conservation of the sold products.

ANSWERS TO EVENTUAL PROBLEMS

⚡ To check every electric part, the main switch must be "OFF" (See Picture 2, page 2).

- MESSAGES THAT APPEAR ON DISPLAY

Message "OFF 01": The sensor n° 1 (temperature measurement) does not work:
Switch the vendor off and on, if the message is still on the display check the sensor harness and in case replace it.
The functioning of the sensor is checked only at the ignition of the vendor.

Message "OFF 02": The sensor n° 2 (defrosting control) does not work:
Switch off and on again the vendor, if the message is still present check the pattern of the vendor as indicated in the self-learning procedure described in the Programming Sheet erewith enclosed, check the harness of the probe end in case replace it.

Message "Attesa segnale Executive": There is no communication with the Executive payment::
Wait without doing anything, the vendor resets the payment system, this message should disappear within one minute.
The message appears immediately after the ignition of the vendor.

Message "OFF 04": It is not possible to reset the communication with the Executive payment system:
Switch the vendor off and on, if there is no communication and the message is still present check the connecting Flat-cables of the display and of the Executive card, check the connections with the Executive payment systems and in case replace it.

Message "OFF 09": *Refrigerator safety operating time (Time out refrigerator)*:
                    Just for models LXS9x/x/xx-S

It may appear during the normal operation, if the vendor inside temperature exceeds the safety threshold (can be set during the programming by means of parameter *"Safety temperature "*) for a period longer than the allowed one (Can be programmed in the parameter *"Overtemperature time "*).
By entering in programming you will be asked if you want to reset the error flag .

RESET OFF 9 (1):YES (2):NO	Press key **1** to reset Press key **2** to keep the flag

NOTE : to put the function "*refrigerator safety control* " off-line, set the parameter *"Safety temperature "* at a very high level (i.e. 45 °C).

Message "OFF 10": *Sale sensor error:*
This message can appear when the vendor is switched on or just before a sale;
- If the error is caused by a luminous interference the standard vendor operation is automatically reset by removing the interference.
- If the error is caused by a defect of the card and/or harness and/or infra-red led barriers check the connection and/or replace them.

Message "System Error n°xxx": *System error:*

Survey the errors which cause a wrong vendor operation.
Take note of the error number, reset the vendor, in case the fault appears again, call the assistance service.

- ERROR MESSAGES OF THE DOOR EXTRACTION PRODUCT "PUSH"

Message " OFF 12a ": _Short-circuit_ *magnets block "Push":*
One or both magnets to block the "push" are in short circuit, verify the proper connection, the integrity of wiring and / or replace them.

Message " OFF 12b ": *Two magnets blocking "push"* _disconnected_:
The magnets to block the "push" both are disconnected, verify the proper connection, the integrity of wiring and / or replace them.

Message " OFF 12c ": *A magnet blocking "push"* _disconnected_:
One of the magnets that block the "push" is disconnected, verify the proper connection, the integrity of wiring and / or replace them.

Message " OFF 12d ": *Door "push"* _open_:
The micro-switch and / or the magnetic sensors of closing, not identified the actual closing of the push. Check that micro-switch and sensor magnetic reed are properly connected, adjusted correctly, check the integrity of wiring and / or replace them.

Message " OFF 12e ": *Door "push"* _not blocked_:
One or both micro-switch of the two magnets that locks the "push" not detect the actual blocking of the "push". Check the pins of magnets can move freely without hindrance, that the two micro-switches are properly connected, adjusted correctly, check the integrity of wiring and / or replace them.

Message " OFF 12f ": *Door "push"* _blocked_ *(not released):*
The micro-switch of the two magnets that locks the "push" not detect the actual release of "push". Check the pins of magnets can move freely without hindrance, that the two micro-switches are properly connected, adjusted correctly, check the integrity of wiring and / or replace them.

Message " OFF 12g ": *Door "push"* _false blocked_ *(no detection release):*
The micro-switch of the two magnets that locks the "push" not detect the actual release of "push", even though the door "push" was opened (then actually released). Check that the two micro-switches are properly connected, adjusted correctly, check the integrity of wiring and / or replace them.

- ERROR MESSAGES OF THE ANTITHEFT SLIDING PANEL

Message " OFF 13a ": <u>*Short-circuit* motor antitheft panel:</u>
Check the wiring the motor antitheft panel, check the motor antitheft panel, check that they are connected correctly and / or replace them.

Message " OFF 13b ": *Motor antitheft panel <u>unplugged</u>:*
You try to run the motor antitheft panel when the micro-switch door open is not activated, if the door of the distributor is open, close the door or arming the micro-switch to simulate the door closed. Check the micro-switch door open, the motor antitheft panel, the wiring of the micro-switch, the wiring power of the motor antitheft panel, check that they are connected correctly and / or replace them.

Message " OFF 13c ": *Antitheft panel <u>removed</u>:*
Check that, after a service, has been remounted the antitheft sliding panel, Check the micro-switch opening and closing panel antitheft, check the wiring of these micro-switch and that are connected correctly and / or replace them.

Message "OFF 13d ": *Micro-switch antitheft panel <u>reversed</u>:*
Check that, after a service, have been connected correctly micro-switch opening and closing panel antitheft and / or the wiring power of the motor antitheft panel.

Message "OFF 13e ": *Error antitheft panel <u>at the opening</u>:*
At the end of a cycle of opening the antitheft panel, does not open completely the panel, or is not detected open. Make sure the antitheft panel can slide freely and there is nothing that prevents the opening, control the operation of the micro-switch to open, the wiring of it, the correct connection and / or replace them.

Message "OFF 13f ": *Error antitheft panel <u>at the closing</u>:*
At the end of a cycle of closing the antitheft panel, does not close completely the panel, or is not detected closed. Make sure the antitheft panel can slide freely and there is nothing that prevents the closure, control the operation of the micro-switch of closed, the wiring of it, the correct connection and / or replace them.

Message "OFF 13g ": *Motor antitheft panel <u>released / blocked</u>:*
They try to move the antitheft panel, when the block-motor of the panel is not properly locked. Make sure the block-motor of the antitheft panel is properly locked, check that the pinion of the motor being fixed correctly, check that the antitheft panel can slide freely.

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- *FUSES CONTROL*

A → **F1**
LED

B → **F2**

MAIN SWITCH

C → **F3**

D → **F4**

Picture 7

Press to programming

Pressing the key it is possible to cancel the
Out of Order condition of the motors

PS2

PS2
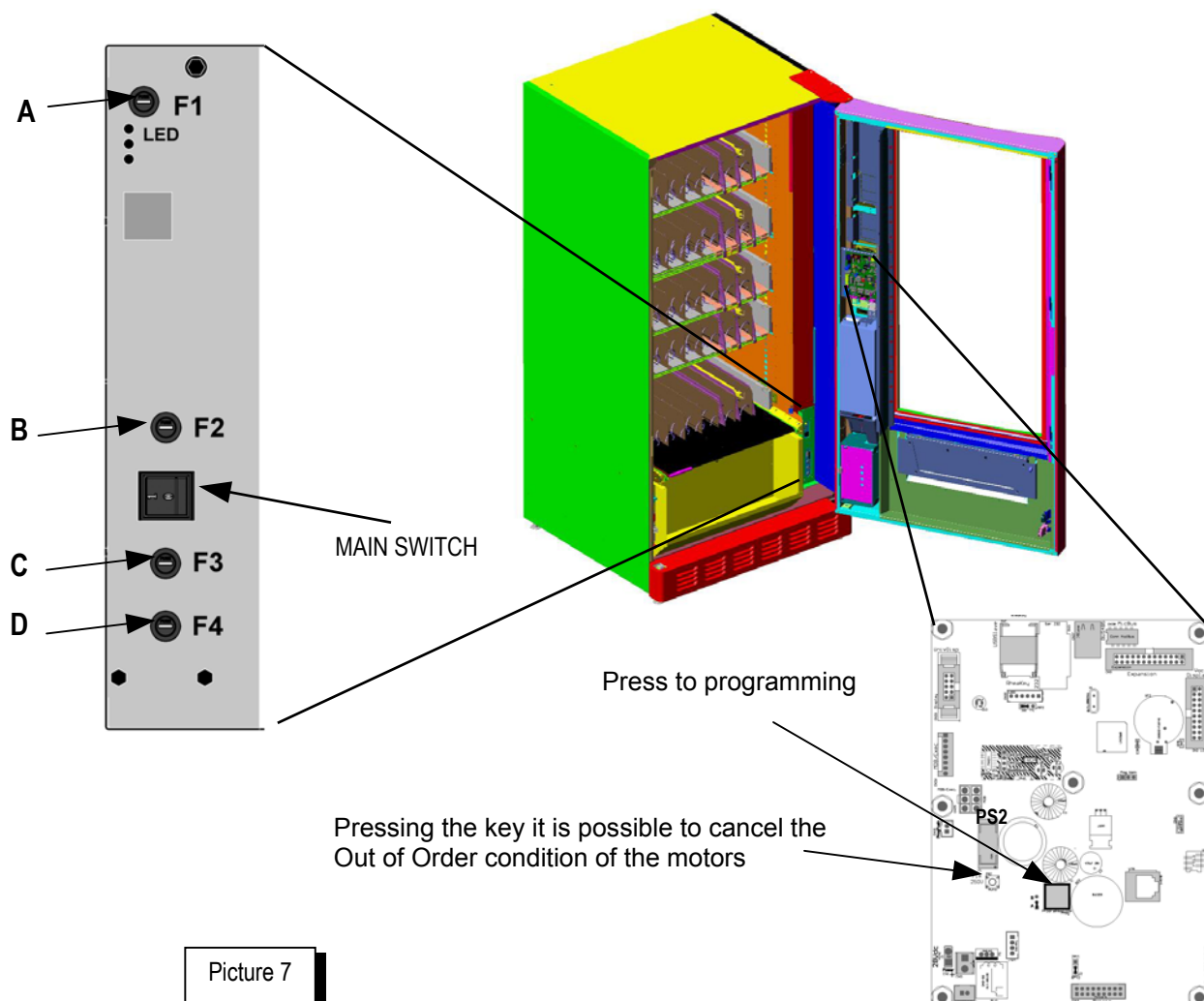
The vendor is equipped with fuses mounted as shown in the table.

POSITION	INSCRIPTION	TYPE	PROTECTED CIRCUITS	CONTROL WHEN
A	**F1**	**5x20 T6.3** (6,3 A delayed 250V)	Refrigeration plant	The vendor does not refrigerate
B	**F2**	**5x20 T6.3** (6,3 A delayed 250V)	General 28V	The vendor does not work
C	**F3**	**5x20 T6.3** (6,3 A delayed 250V)	General 230V	The vendor does not work
D	**F4**	**5x20 T6.3** (6,3 A delayed 250V)	General 230V	The vendor does not work

THE MACHINE DOES NOT REACH THE SET TEMPERATURE

Check the fuses (see chapter "*Fuses control*")

Check that the refrigeration reeds of the condenser are not clogged and in case clean them.

Check that the set temperature is not too high or too low, see the programming sheet.

Check that the inside air circulation fan is working correctly .

Check that the compressor of the refrigeration plant is working and that the refrigeration fan (between the compressor and the condenser of the refrigeration plant) is working correctly.

Check that the evaporator gets cold.

If it is not possible to solve the problem, call the authorised service centre.

SOME SELECTIONS ARE OFF (MESSAGE SELECTION OFF)

Check the harness of the gearmotor corresponding to the selection off, check the integrity of the gearmotor itself and the right assembly of the spiral on the gearmotor, check that the spiral or the gearmotor are not blocked by products out of place or wastes.

NOTE: You can cancel the condition of "Out of Service" motors without programming, pressing for about 3 seconds the button PS2 that is on the card CPU (See Figure 7, page 12.).

SOME ENGINES ARE NOT RECOGNISED

Check the harness ant the integrity ot the engines which are not recognised, check the integrity and the right connection of the connectors at the bottom of the sale sections.

REPLACEMENT OF THE FEEDING CABLE

In case of replacement of the feeding cable of the vendor, the cable mod. H05RN-F is available by Damian, it is in conformity with the rule CENELEC EN 60 335-1, operation that must be carried out ONLY by **skilled service personnel**.

⚠ Before any operation on the feeding cable, check that the feeding plug is out of its tap.

GRATE
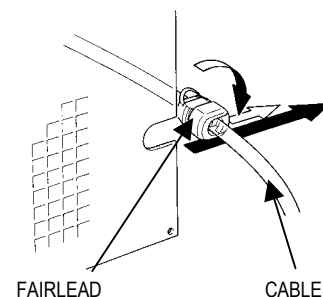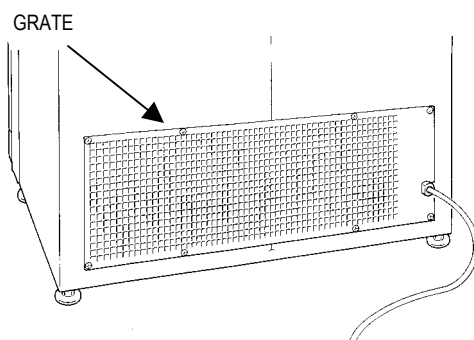
FAIRLEAD   CABLE

Remove the back grate of the box by unscrewing the fixing screws, remove the fairlead of the grate, remove the tap of the connector from the bottom of the electric box and disconnect it from the cable to replace, remove the cable from the fairlead. Insert the new cable on the fairlead, connect the tap of the connector on the new cable and insert it again on the plug of the connector at the bottom of the electric box, insert the fairlead on the back grate and fix the grate with the fixing screws.

ROUTINE MAINTENANCE AND LUBRICATION

Symbol	Periodicity	Check
✳	1 month	- Safety switch check

✳ SAFETY SWITCH CHECK

During the safety switch check follow carefully the instructions, avoid action not indicated.
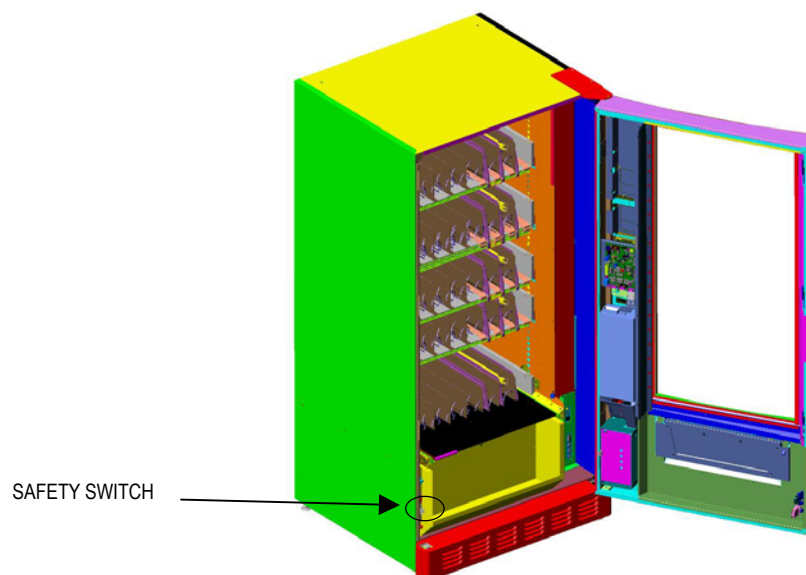
SAFETY SWITCH

Check the right functioning of the safety switch by opening and closing the door of the vendor when it is on, check that the neon lamp is off when the door is open and is on when the door is closed.

ENVIRONMENTAL PROTECTION

Dispose, in conformity with the laws in force, the cleaning and lubrication materials.

Not dispose the device in the city refusal. To recycle this device to reduce the pollution and to assure the maximum protection of the ambient, the materials must be recycle on base of the local and regional laws.

It is better to recycle the raw materials instead of disposing of the waste: the device and the packing should be ecologically recycled.

The illegal disposal of the product by the holder includes the application of administrative sanctions provided for by existing legislation

1. In the European Union

If the device is marked externally by this symbol, it should not be mixed with general household waste.
For more information on disposal contact your local dealer.

2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

WARRANTY

Damian S.r.l. supplies for its own products, a warranty in conformity with the specific national laws.
The warranty starts from the date on the freight bill or, if missing, on the invoice.
The warranty does not include the damages caused by normal wear, overload, wrong use, or other breakdowns not caused by defects in manufacturing.

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Enclosure "A"

PROGRAMMING SHEET

This enclosure has to be combined with
the handbook and it is an integral part of it

PROGRAMMING METHOD

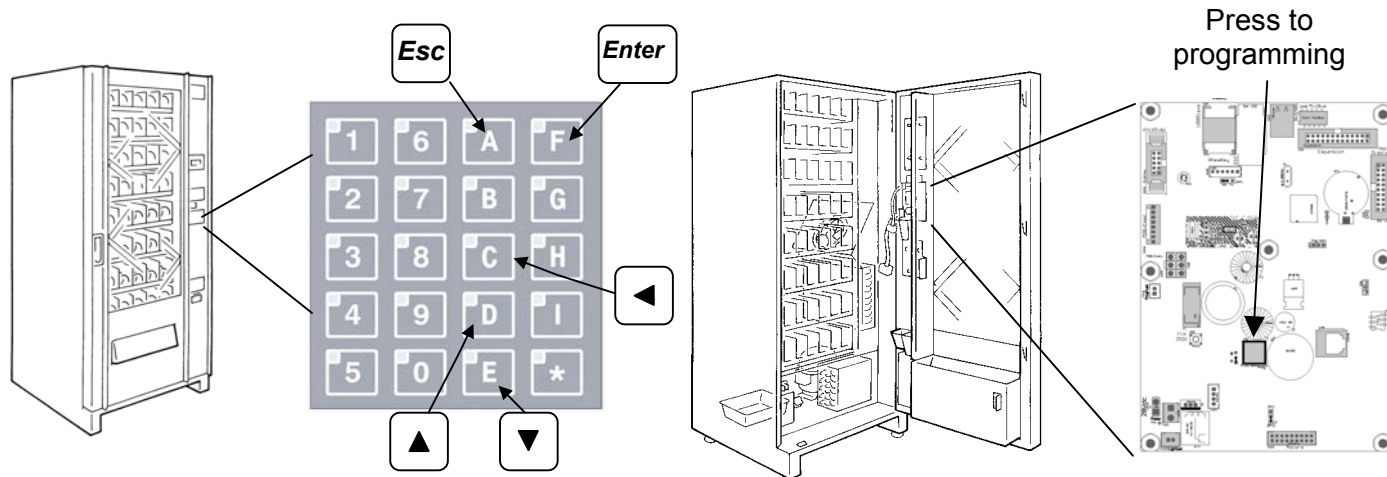Press to programming

NORMAL STATE OF THE DISPLAY:

When the vendor is awaiting a sale, the indications of date and hour, available credit and (if qualified) date/time internal temperature of the vendor are sequentially visualised on the first line of the display, on the second line you can see the following writing running: "Insert credit, enter number and letter of selected product "

TO ENTER THE PROGRAMMING:

Open the vendor, feed it acting with the right key on the safety switch and press the button on the CPU card of the vendor (see picture above), avoid closing the vendor again in order not to damage the safety switch.

⚠ When the key is in the safety switch, do nothing different from the instruction given.

TO CHOOSE THE PARAMETER YOU WANT TO PROGRAM:

Select the menu acting on the buttons **D(▲)** or **E (▼)**, on the second line of the display it will sequentially appear the writings relating to the different menus, until it starts again with "Products Prices"

When the writing relating to the menu chosen appears, press the button **F (*Enter*)** to confirm.

The name of the parameter will appear on the first line of the display, the value laid at the present time will appear on the second one. Select the parameter of the menu acting on the buttons **D (▲)** or **E (▼)**, the writings relating to the different parameters of the menu will sequentially appear on the first line of the display, until it starts again from the first parameter.

When the writing relating to the wished parameter appears, press the button **F (*Enter*)** to confirm.

TO CHANGE THE PROGRAMMED VALUE OF THE CHOSEN PARAMETER:

If on the second line there is "***>" followed by the present value, without flashing figures:

Write the value wished through the keyboard or press the button **D (▲)** to increase or **E (▼)** to decrease the present value.

Press the button **F (*Enter*)** to confirm and return to the previous point.

If on the contrary there is "***>" followed by the present value with a flashing figure:

Press the button **D (▲)** to increase or **E(▼)** to reduce the flashing figure.

Press the button **C (◄)** to move a figure on the left, in order to start from the first on the right again.

Once all the figures have been inserted, press the button **F (*Enter*)** to confirm and return to the previous point.

TO EXIT THE PROGRAMMING:

Press the button **A (*Esc*)** to return to the choice of the menus.

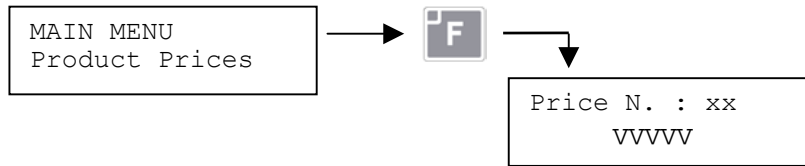Press for about 3 seconds the button on the CPU card of the vendor or press the button **A (*Esc*)** for some seconds or wait 120 seconds without pressing any button.

You will hear a short Beep and the display will be back to its normal condition, indicating the credit aid (if qualified) date/time and internal temperature.

Remove the key from the safety switch and close the vendor again, which is now ready for use.

- SELLING PRICE :

The 32 sale prices can be set as follows:

```
┌─────────────────┐        ┌───┐
│ MAIN MENU       │───────▶│ F │──┐
│ Product Prices  │        └───┘  │
└─────────────────┘               ▼
                          ┌──────────────────┐
                          │  Price N. : xx   │
                          │      VVVVV       │
                          └──────────────────┘
```

[default value: 2.00 for all selections.]

Press keys **D** and **E** to see the 32 available prices (xx which goes from 01 to 32)
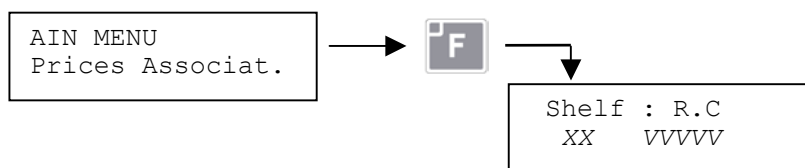Press key **F** to select the value "VVVVV" of the price to change, insert the new value by pressing the numbers on the keyboard, confirm the price by pressing **F** again.

Note 1 : if the value is not an exact multiple of parameter "Value of each step " (see farther) it will be automatically rounded off and it is necessary to confirm the new value again by means of key **F**

Note 2 : default = value automatically used by a new or reset card

Once the sale prices are set, it is possible to combine them to the available selection as follows:

- PRICES ASSOCIATION:

```
┌─────────────────┐        ┌───┐
│ AIN MENU        │───────▶│ F │──┐
│ Prices Associat.│        └───┘  │
└─────────────────┘               ▼
                          ┌──────────────────┐
                          │  Shelf : R.C     │
                          │   XX     VVVVV    │
                          └──────────────────┘
```

Where **L** (line) indicates the number of the section (from below) and **C** (column) indicates the column from left.
Example: selection corresponding to the lowest section, first column from the left: **1A** last column on the right: **1G**;

selection corresponding to the third section from below, fourth column from the left: **3D**, the penultimate column on the right: **3F**

XX is the current price and VVVVV the combined value.

Pressing **D** and **E** you can skim through the 32 available selections

Press **F** to change the combination with the sale price for the current selection; skim through the price list by means of **D** and **E**, select the desired price and confirm by pressing **F**.

- COIN VALUES (NOT USED BY THE EXECUTIVE PAYMENT SYSTEM):

The values of the 6 recognisable coins are set as follows:

```
┌─────────────────┐        ┌───┐
│ MAIN MENU       │───────▶│ F │──┐
│ Coin Values     │        └───┘  │
└─────────────────┘               ▼
                          ┌──────────────────┐
                          │  Coin Value  X   │
                          │  actual value    │
                          └──────────────────┘
```
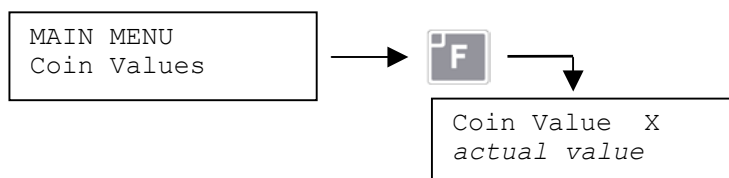
[Default value: see table]

Coin	Default
1	000.01
2	0
3	000.02
4	000.04
5	0
6	000.10

Note 1 : if the inserted value is not an exact multiple of the parameter "Value of each step" (see farther), it will be automatically rounded and it will be necessary to reconfirm the new value with the button **F**

- *VALUES OF THE BANKNOTE* (if present)**:**

The values of the 5 recognisable banknote (if a banknote reader is present) can be set as follows:
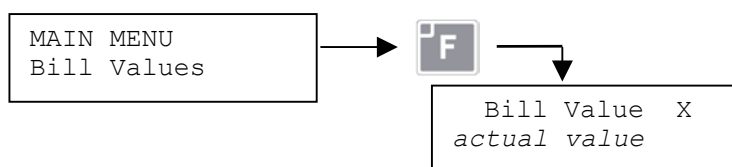
```
MAIN MENU
Bill Values
```
→ `F` →
```
   Bill Value  X
   actual value
```

Banknote	Default
1	1000
2	5000
3	10000
4	0
5	0

[Default value: see table]

Note 1 : if the inserted value is not an exact multiple of the parameter "Value of each step" (see farther), it will be automatically rounded and it will be necessary to reconfirm the new value with the button **F**

GENERAL PARAMETERS

- OPERATION:

The operation can be set as follows:

```
MAIN MENU
General Param's
```
→ `F` →
```
Operating Modes
actual value
```

Value	Operation
1	Executive
2	Stepper Single sale
3	Stepper Multisale
4	MDB
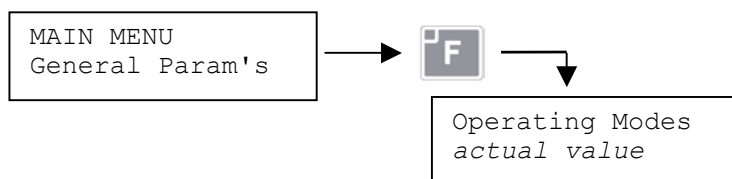
[Default value: 2]
[Meaning: see table]
[Particularities: in modality 3 (multi-sale stepper) the remaining credit is not reset after the sale]

- VALUE OF EACH STEP OR *COIN SCALING FACTOR*:

The value of the coins and the selling prices are always multiples of a base coin with a minimum value Working with Executive payment systems this value must be the same as the value set in the payment system.

The value can be set as follows:

```
MAIN MENU
General Param's
```
→ `F` →
```
Min.Coin Values
actual value
```

[Default value: 000.01]

Note 1 : if during the insertion of the selling price and the value of the different coins and banknote, these are not multiple of the parameter "Value of each step", the will be automatically rounded.

- DECIMAL POINT:

The position of the decimal point on the display, which is used for prices with cents, works only in stepper mode and value 1 corresponds to the 1st position on the right.

```
MAIN MENU
General Param's
```
→ **F** →
```
Decimal Point
Actual Value
```

[Default value: 3]
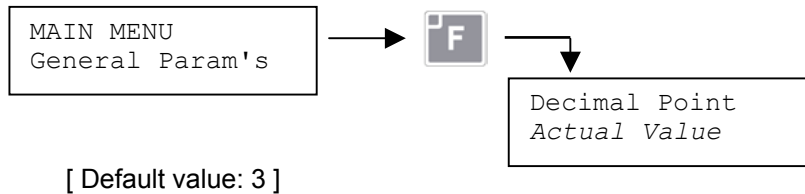
- AUTOMATIC *RESET* FUNCTION OF *EXECUTIVE* PAYMENT SYSTEMS

If the function is on, the vendor restarts automatically the Executive payment system if there is no communication for a period longer than the pre-set one.

Can be set from 0 to 1, the value 0 cancels the function.

Set 0 if the payment systems use their accessories or peripherals (i.e.: programmers, printers, etc.. etc...), as under these conditions there will be malfunctions.
The value can be set as follows:

```
MAIN MENU
General Param's
```
→ **F** →
```
Enable Exe.Reset
actual value
```

[Default value: 0]
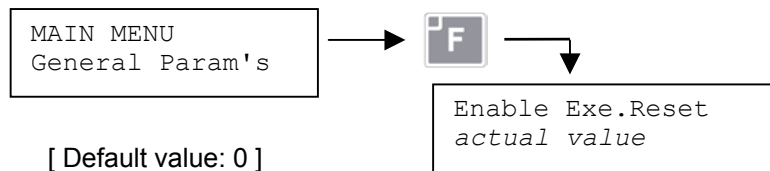
- DISPLAY OF THE SELLING PRICE IN MODALITY *EXECUTIVE*

Displays the selling price for the Executive payment systems, by setting 0 the function is cancelled.
The value can be set as follows:

```
MAIN MENU
General Param's
```
→ **F** →
```
Enable Price Dsp
actual value
```

[Default value: 1]
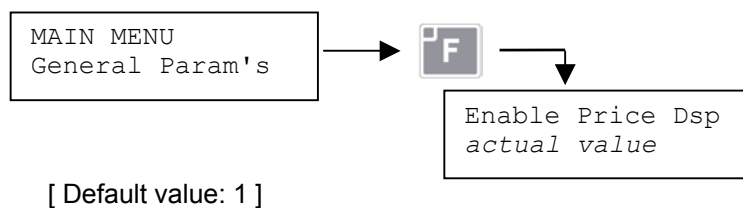
- LANGUAGE OF THE MESSAGES:

Language of the messages.

```
MAIN MENU
General Param's
```
→ **F** →
```
Language
actual value
```

[Default value: (Italian)]
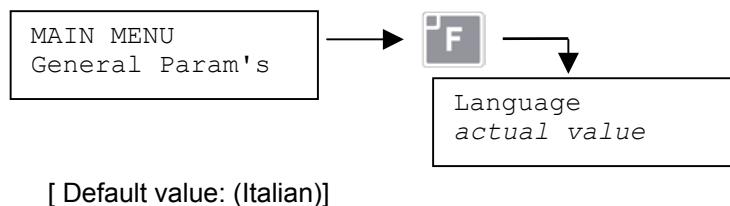
Language
Italiano
Francais
English
Español
German

- CLOCK DISPLAY:

To display or not the time while the vendor is waiting for a sale, 0 off, 1 on.

```
MAIN MENU
General Param's
```
→ ⬛F ┐
```
Time Dsp Enable
actual value
```
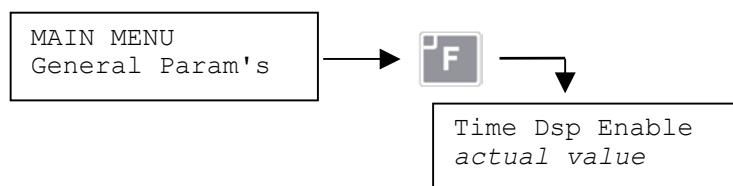
- CLOCK ADJUSTMENT:

To adjust the current date and time.

```
MAIN MENU
General Param's
```
→ ⬛F ┐
```
ddd mm/dd hh:mm
actual value
```
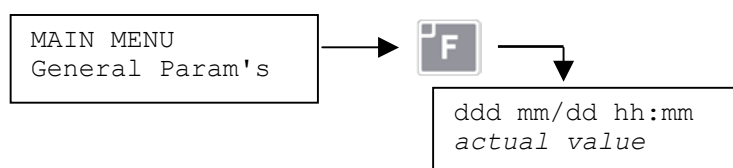
- ENABLING SALE SENSORS:

It enables the sale sensors operation which control the passage of the products, 0 off (OFF), 1 on (ON).

```
MAIN MENU
General. Param's
```
→ ⬛F ┐
```
Sale sensor enable
actual value
```
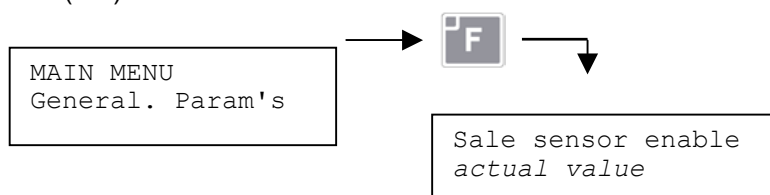
[Default value: 0 (OFF)]

- FTCA MAX 3 SELECTIONS:

If the product will be not sell, will be possible make for 3 time the same selection without lose the credit.

```
MAIN MENU
General Param's
```
→ ⬛F ┐
```
FTCA Max 3 Selec
  actual value
```
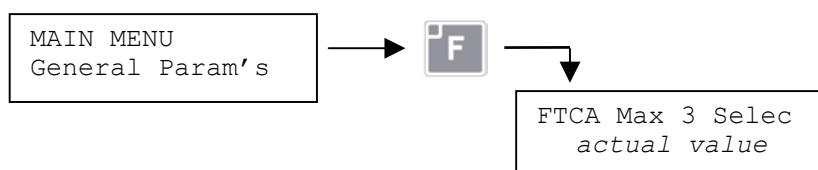
[Default value: 0 (OFF)]

WARNING: after the third selection, if the product will not be sold, the credit will be scaled.

- CARD RESET:

It resets the vendor electronic card (CPU) ,after the replacement with another not yet programmed one.

```
MAIN MENU
General Param's
```
→ `F` →

```
Default P. Reset
Current value
```
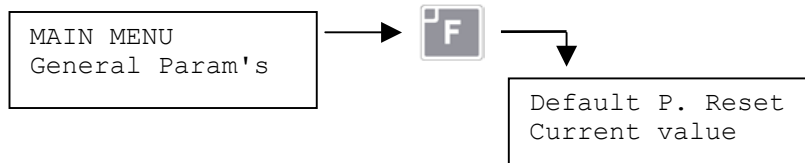
To reset the card:

1) enter in programming. General parameters, as previously described;

2) select `Default Param. Reset;`

3) insert value *"12345"* and confirm with **F**, the card will cancel some stored programming parameters and will automatically be in **"selflearning ".**

The selflearning process has the following phases:

Note: in case of error in one point of the process press for a few seconds key **A**, the selflearning process will restart from the beginning.

A) The following writing will appear on the *display*:

```
Selflearning
Language: Italian
```

press "**F**" **to confirm**

B) The following writing will appear on the *display* :

```
Selflearning
Motors conn.: xx
```

Check that the number of connected motors corresponds to the motors in the vendor, in case of clash follow the instruction explained in the installation and assistance handbook , in chapter "Answers to eventual problems" , paragraph "some motors are not recognized" .

Press "**F**" **to confirm**

C) The following writing will appear on the display:

```
Selflearning
Sale sensor.:XXX
```

If the vendor has the product sale sensors (FTCA): **XXX = ON**
If the vendor has not the product sale sensors (FTCA): **XXX = OFF**

Press "**F**" **to confirm**

D) The following writing will soon appear on the display:

```
Selflearning
Config. Refr. x
```

Compare such writing with the following table:

Vendor model	Refrigerator	*Display* writing
LXS9x/x/xx-**A**	None	*Config. Refr. 0*
LXS9x/x/xx-**R**	Normal	*Config. Refr. 1*
LXS9P/x/xx-**S**	Super	*Config. Refr. 2*

If on the display appears the writing corresponding to the refrigerator installed on the vendor press key "**F**" to confirm the data.

In case, during phase **D)**, a wrong writing appears on the display, follow the instruction of the **"Installation and maintenance"** handbook , referring to message "**OFF 01** and **OFF 02**".

E) Just for vendors in **refrigerator 2 configuration**, this writing will appear on the display:

```
Selflearning
Safety Temp.:OFF
```

Press key "**D**" (ON) to enable the overtemperature control, or key "**E**" (OFF) to switch it off.

Press "**F**" to confirm

F) Just for vendors with product sale sensors (FTCA) , on the display appears the writing:

```
Sequen. Mod.
     Off
```

Press "**F**" to confirm

After the confirmation of the last parameter the selflearning process stops and the vendor, after the reset, starts automatically the normal operation.

4) Enter again in programming, select "**GENERAL PARAMETERS** " and set the value of parameter "OPERATION MODE ".

The reset keeps all other settings valid (i.e. "product prices " , "Price combination ", etc) avoiding to program them again.

IMPORTANT

In case the electronic card should be reset completely with the total cancellation of the programming parameters it is necessary to reset, as above explained, by inserting in point **3)** value **"21613"**.

REFRIGERATOR PARAMETERS

- INSIDE TEMPERATURE:

To set the inside temperature of the vendor, from 0 to 44°C.

```
MAIN MENU
Refrig. Param's
```
→ `°F`

```
Probe 1 Temp.Set
actual value
```
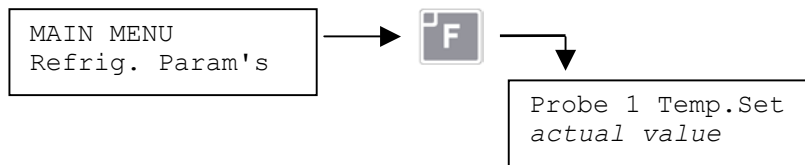
[Default value: 40]

- INSIDE TEMPERATURE READING:

To read the inside temperature of the vendor, not adjustable:

```
MAIN MENU
Refrig. Param's
```
→ `°F`

```
Probe 1 Measure
actual value
```
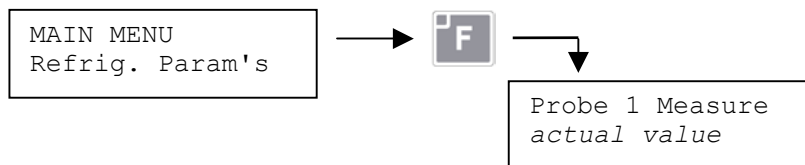
- WORKING TEMPERATURE OF THE REFRIGERATION PLANT: (ONLY ON MACHINES "–S")

To read the temperature of the refrigeration plant, not adjustable:

```
MAIN MENU
Refrig. Param's
```
→ `°F`

```
Probe 2 Measure
actual value
```
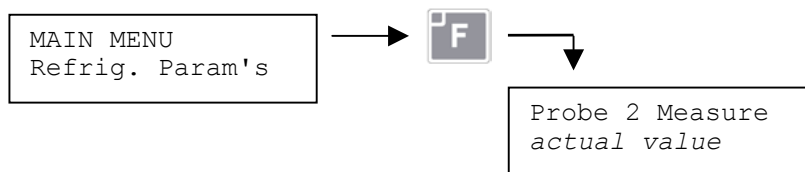
- SAFETY TEMPERATURE:

To set the safety temperature for the sale of the products; see paragraph **Overtemperature control** and the description of the error message "**OFF 09**":

```
MAIN MENU
Refrig. Param's
```
→ `°F`

```
Security Temp.
Current Value
```
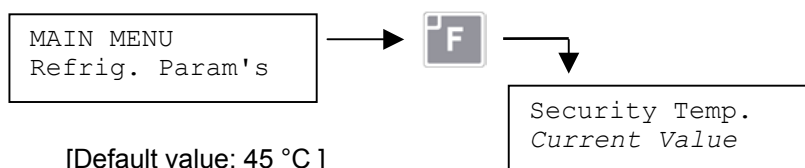
[Default value: 45 °C]

[Just for models LXS9P/x/xx-S the default value is 7 °C – To remove this function set it at 45°C]

- OVERTEMPERATURE TIME:

To set how long the inside temperature must not exceed the safety one; see paragraph **Overtemperature control** and the description of the error message "**OFF 09**":

```
MAIN MENU
Refrig. Param's
```
→ `°F`

```
Overtemp. Timing
Current value
```

[Default value: 30 minutes]

- SUPPLY TIME:

To set the time which is added to the overtemperature time each time a supply takes place (vendor ignition); see paragraph **Overtemperature control.**

```
MAIN MENU
Refrig. Param's
```
→ **F** →

```
Recharging time
Current value
```

[Default value: 120 minutes]

OVERTEMPERATURE CONTROL (JUST FOR MODELS LXS9P/x/xx – S)

To keep the sale products the vendor controls that the inside temperature does not exceed a threshold called **safety temperature** for a period longer than the **overtemperature time**;

The overtemperature is controlled through 3 parameters:

- **(A) Safety temperature**
- **(B) Overtemperature time** (set).
- **(C) Supply time**

The overtemperature is controlled just in *refigerator configuration 2* , by setting the parameter *Safety temperature* at a value lower than 40 °C.
During the normal vendor operation, if the inside temperature exceeds the "safety temperature" " (A) for a period longer than the "Overtemperature time " (B), error "OFF 09" will appear , which blocks the first two drawers at the bottom of the vendor.

When the vendor is switched off, the date and the hour will be stored and also the overtemperature time (calculated), if the vendor was in overtemperature, is stored.

When the vendor is switched on, if it is still in overtemperature, the time of "vendor in Power-OFF" (vendor off) will be calculated.

If the time of "vendor in Power OFF" is added to the "overtemperature time " (calculated) you get the **"Total overtemperature time "**.

By comparing the **"Total overtemperature time "** with the sum of parameters **"Overtemperature time "** (B) + **"Supply time"** (C) , the following conditions may appear:

2) *Total overtemperature time* higher = *Overtemperature time* **(B) +**
Supply time **(C)**

Error "OFF 09" will appear ,which blocks the first two drawers at the bottom of the vendor.

2) *Total overtemperature time* lower *Overtemperature Time* **(B) +**
Supply time **(C)**

Will be displayed for about 15 sec.: missing minutes, inside temperature, safety temperature.
(with missing minutes we mean the minutes within which the inside temperature must decrease under the safety temperature to avoid error "OFF 09").

In case of error "OFF 09", entering in programming you will be asked if you want to reset the error flag.

```
RESET OFF 9
(1):SI  (2):NO
```
Press key **1** to reset
Press key **2** to keep the flag

Warning: The values of these three parameters must be set according to the standard rules in force. Regarding the conservation of the sold products.

PARAMETERS OF MDB PAYMENT SYSTEMS

- MINIMUM COINS TO TURN ON THE PILOT LIGHT INDICATING THE LACK OF CHANGE

It allows to fix the minimum value of the coins which have to be present in a MDB payment system, under which the vendor signals the lack of change.

```
MAIN MENU
MDB Parameters
```
→ 🔲F

```
Min.Tube Led
actual value
```
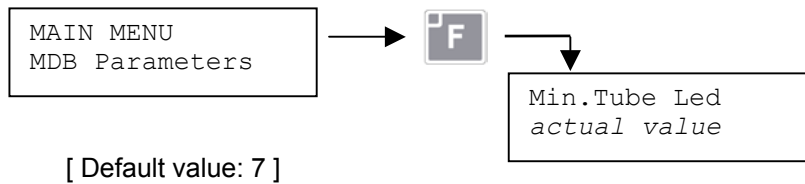
[Default value: 7]

- MINIMUM COINS TO RETURN THE CHANGE:

It allows to fix the minimum value of the coins which have to be present in a MDB payment system, under which the vendor is not able to give the change back.

```
MAIN MENU
MDB Parameters
```
→ 🔲F

```
Min Tube Change
actual value
```
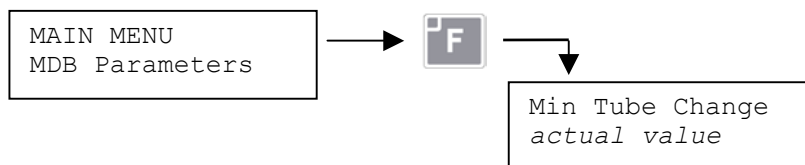
[Default value: 5]

- COMPULSORY SALE:

If it is activated, the MDB payment system does not give the change before any sale, to prevent that it is used as coin-changer, 1 activated, 0 disactivated.

```
MAIN MENU
MDB Parameters
```
→ 🔲F

```
Obligatory Sale
actual value
```
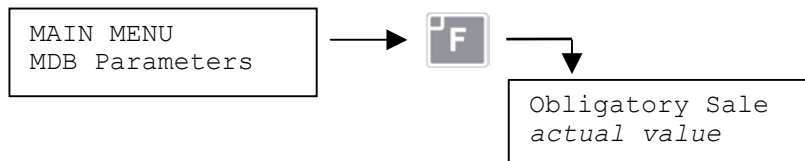
[Valor de default: 0]

- MDB SALE MODALITIES:

It allows to select the sale modality for a MDB payment system, 0 single sale without change, 1 single sale with change, 2 multiple sale the residual credit is given back only if requested:

```
MAIN MENU
MDB Parameters
```
→ 🔲F

```
Sale Modalit.MDB
actual value
```
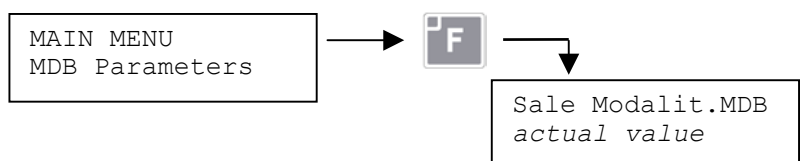
Value	Modality
0	Single sale without change
1	Single sale with change
2	Multiple sale: the residual credit is given back only if requested

[Valor de default: 0]

- MAXIMUM CREDIT:

It allows you to set the maximum credit accepted by the payment system MDB.

```
MAIN MENU
MDB Parameters
```
→ 🔲F

```
Maximum Credit
Valore attuale
```

[Valore di default: 0]

- MANUAL EMPTYING OF THE COIN TUBES:

If activated, it allows the manual emptying of the coin tubes of the MDB payment system, if it is arranged for this, 1 activated, 0 disactivated:

```
MAIN MENU          ┌───┐
MDB Parameters ──► │ F │─────┐
                   └───┘     │
                             ▼
                   ┌────────────────────┐
                   │ Man. Tubes Disch   │
                   │ actual value       │
                   └────────────────────┘
```
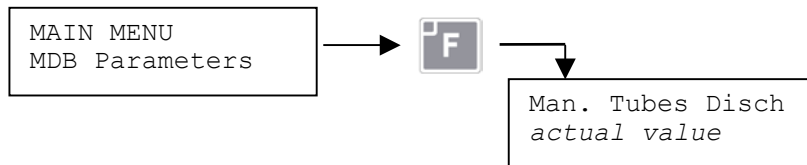
- PRESENT COINS:

It allows to read the value of the coins which are present in the MDB payment system and to qualify or disqualify the recognition of these coins:

```
MAIN MENU          ┌───┐
MDB Parameters ──► │ F │────┐
                   └───┘    │
                            ▼
                  ┌──────────────────┐         ┌───┐
                  │ Coins and Tubes  │───────► │ F │────┐
                  └──────────────────┘         └───┘    │
                                                        ▼
                                              ┌─────────────────────┐
                                              │ Coin : nn vvvvv      │
                                              │ in tube   xxx yyy    │
                                              └─────────────────────┘
```
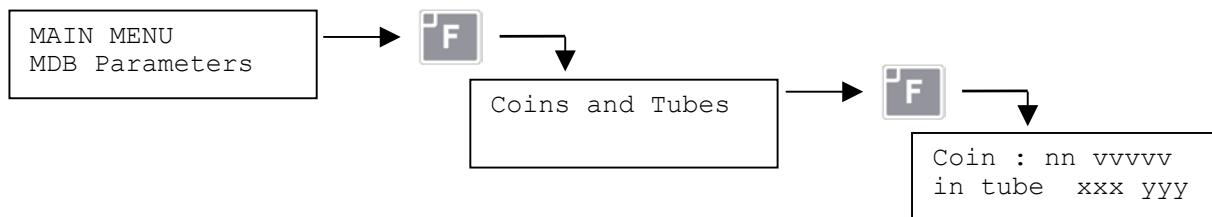
"nn" coin number, "vvvvv" coin value, "xxx" number of coins in the tubes, if the tube is not qualified, it displays"---", "yyy" =ON qualified coin, =OFF disqualified coin

Press on button **F** to qualify/disqualify.

Press on button **C** to empty the tube manually.

Note 1 : The value of the coins recognised by the payment system depends on the system itself, refer to its documentation.

Note 2 : With some payment systems MDB the value displayed could be indicative, this depends on the payment system, refer to the documentation of the system of payment in use.

- PRESENT TOKENS:

It allows to read the value of the tokens which are present in the tubes of the MDB payment system and to qualify or disqualify the recognition of these tokens:

```
MAIN MENU          ┌───┐
MDB Parameters ──► │ F │────┐
                   └───┘    │
                            ▼
                  ┌──────────────────┐         ┌───┐
                  │ Coins and Tubes  │───────► │ F │────┐
                  └──────────────────┘         └───┘    │
                                                        ▼
                                              ┌─────────────────────┐
                                              │ Token : n vvvvv      │
                                              │ in tube   xxx yyy    │
                                              └─────────────────────┘
```
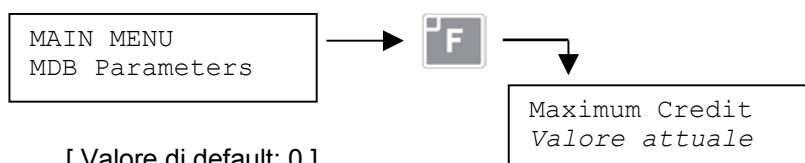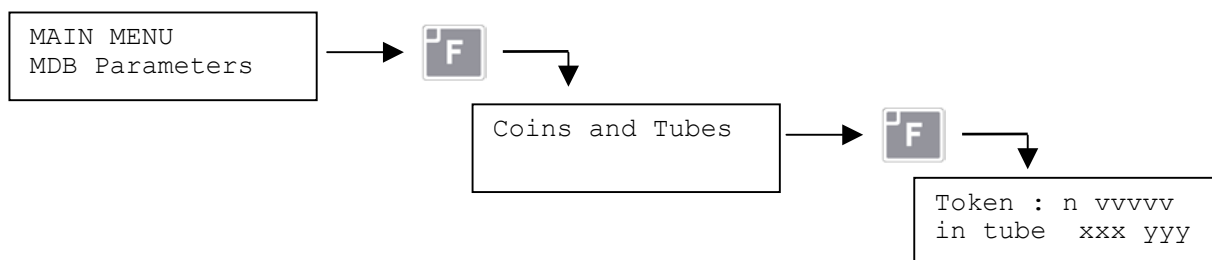
"n" token number, "vvvvv" token value, "xxx" number of tokens in the tube, if the tube is not qualified, it displays "---", "yyy" =ON qualified token, =OFF disqualified token.

Press on button **F** to qualify/disqualify, after having qualified the token, the following writing appears:

```
                   ┌────────────────────┐
                   │ Token Value   X    │
                   │ actual value       │
                   └────────────────────┘
```

Set the value of the token and confirm it with the button **F**.

Press on button **C** to empty the tube manually.

- PRESENT BANKNOTES:

It allows to read which and how many banknotes are present in a MDB payment system and to qualify their recognition.

```
MAIN MENU
MDB Parameters
```
→ **F** →
```
Bill and Staker
```
→ **F** →
```
Bill : nn vvvvv
Secur.H Act. ON
```
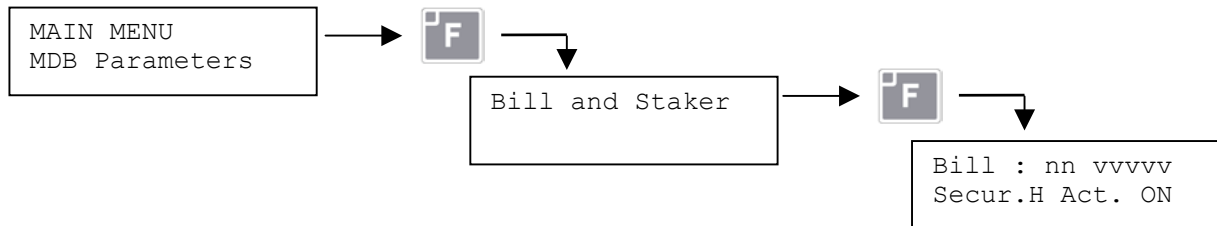
"nn" banknote number, "vvvvv" banknote value

" Secur.H " safety recognition level high , "Secur.L" low

"Act. ON" qualified banknote, "Act. OFF" disqualified banknote

Press **F** to qualify/disqualify the banknote, press **C** to change the safety identification level.

Note 1 : the value of the banknotes recognised by the payment system depends on the system itself, refer to its documentation .

Note 2 : the meaning and the functioning of the safety identification level depends on the payment system, refer to its documentation.

- TOKEN

It allows to qualify the token recognised by a MDB payment system:

```
MAIN MENU
MDB Parameters
```
→ **F** →
```
Bill and Staker
```
→ **F** →
```
* Token * vvvvv
Secur.H Act. ON
```
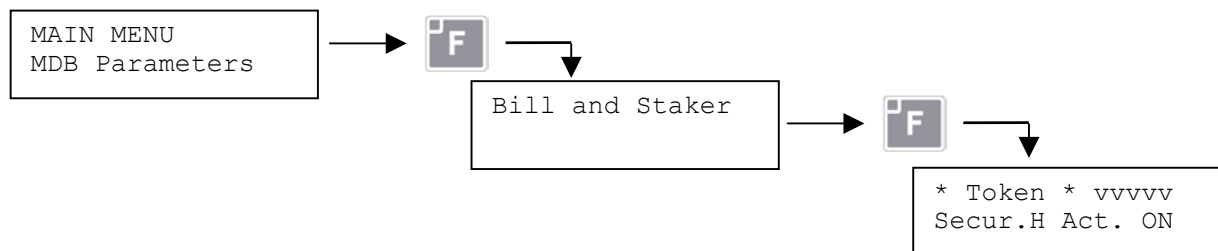
" Secur.H " safety recognition level high , "Secur.L" low

"Act ON" qualified token "Act OFF" disqualified token

press the button **C** to change the safety identification level

press the button **F** to qualify/disqualify the token, after having qualified the token, the following writing appears:

```
Value  * Token *
actual value
```

Set the value of the token and confirm it with the button **F**.

Note 1 : the meaning and the functioning of the safety identification level depends on the payment system, refer to its documentation.

- MDB ADDRESS SLAVE

It allows you to set the address MDB of distributor when it is connected as a Slave MDB to another master distributor.

```
MAIN MENU
MDB Parameters
```
→ **F** →
```
MDB address slave
actual value
```

[Valore di default: 0]

AUDIT PARAMETERS

- PARTIAL METER OF THE VENDOR SALE NUMBER:

It allows the reading of the total number of sales of the vendor from the last reset

```
MAIN MENU
Audit data
```
→ **F** →
```
Part. Sale numb.
Current value
```

- PARTIAL METER VENDOR SALE VALUE:

It allows the reading of the total amount cashed by the last reset. It is necessary to multiply the value by the parameter "value at each step" (or min. coin, Coin Scaling Factor)

```
MAIN MENU
Audit data
```
→ **F** →
```
Part.Sale value
Current value
```

- METER SALE NUMBER FOR EACH SELECTION:

It allows the reading of the total (absolute and partial from the last reset) number of sales for each vendor selection.

```
MAIN MENU
Audit data
```
→ **F** →
```
Motor sale num.
->->->->
```
→ **F** →
```
Motor :    xx
P xxxxx  T xxxxx
```

- METER SALE NUMBER PER LINE (SALE PRICE):

It allows the reading of the total (absolute and partial from the last reset) number of sale per each product price line.

```
MAIN MENU
Audit data
```
→ **F** →
```
Sale Num.Lines
->->->->
```
→ **F** →
```
Price N. :   xx
P xxxxx  T xxxxx
```

- TOTAL NUMBER OF VENDOR SALES:

It allows the reading of the total number of vendor sales:

```
MAIN MENU
Audit data
```
→ **F** →
```
Tot. sale Num.
Current value
```

- TOTAL VALUE OF THE VENDOR SALES:

It allows the reading of the total amount cashed by the vendor. It is necessary to multiply the value by the parameter "value at each step " (or min. coin, Coin Scaling Factor)

```
MAIN MENU
Audit data
```
→ `F` ─┐
```
Sale tot. value
Current value
```

- AUDIT DATA RESET:

To reset the Partial totals counted by the vendor, it is possible just by inserting a password:

```
MAIN MENU
Audit data
```
→ `F` ─┐
```
Audit reset
Current value
```

DIAGNOSTIC

N.B. in the Diagnostic submenu the programming TimeOut is off, so You can leave the programming just by hand, by means of the right keys.

- MOTORS OUT OF ORDER:

by selecting this function You may check which motors are out of order:

```
MAIN MENU
Diagnostic
```
→ `F` ─┐
```
Motors out of ord.
    ->->->->
```
→ `F` ─┐
```
Motor   : x.x
  Out of order
```

in case no motors are out of order, this writing will be displayed:

```
    No Motor
  Out of order
```

by means of **D** and **E** You can skim through the list of the out of order motors, pressing **F** the current motor will start, according to the malfunction one of the following messages will be displayed:

```
     Error
  Motor Disconn.
```

```
     Fault
  Motor Time Out
```

```
     Fault
  Motor P.Supply
```

```
     Fault
  Motor Malfunct.
```

according to the message displayed, check the wiring and the integrity of the ratiomotor as described in the Installation and service handbook at chapter "Answers to eventual problems", paragraph "some motors are not recognized".

Pressing the key **C** it is possible to cancel the Out of Order condition of the motor. On the display it will appear:

```
Motor  : x.x
---- Reset -----
```

pressing the key **A** you can come out of the submenu.

> *NOTE:* **You can cancel the condition of "Out of Service" motors without programming, pressing for about 3 seconds the button PS2 that is on the card CPU** (See Figure 7, page 12.).

- MOTORS MANUAL TEST:

Choosing this item, it is possible to test each motor and let them carry out a sale cycle.

```
MAIN MENU
Diagnostic
```
→ **F** →
```
Manual Motor Test
->->->->
```
→ **F** →
```
Motor  : x.x
```
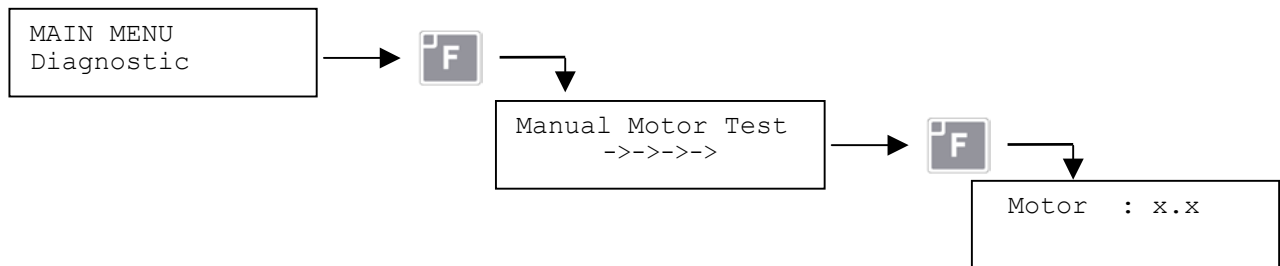
with the keys **D** and **E** it is possible to scroll all the motors detected through the self-learning.

Pressing shortly the key **F** the current motor will be set in motion, in case of error one of the following messages will be displayed:

```
Error
Motor Disconn.
```

```
Fault
Motor Time Out
```

```
Fault
Motor P.Supply
```

```
Fault
Motor Malfunct.
```

Pressing for one second the key **F**, the general test cycle will start; during this cycle the vendor will sequentially make one sale cycle for each ratiomotor detected trough the self-learning, starting from the current motor to the last vendor's motor. In case of defects on one motor, the test will be stopped displaying the relevant message of error.

Keeping any key pressed till the end of the sale cycle of the current motor, the general test cycle will stop.
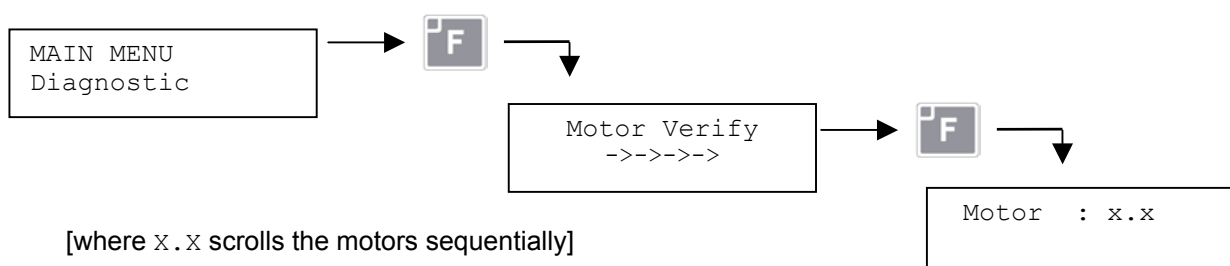
Pressing the key **C** it is possible to go to the first motor of the next drawer.
Pressing **A** it is possible to come out from the Submenu.

- MOTORS EXAMINATION:

Choosing this item, it is possible to carry out a quick control of the motors' condition.

This function does not change the vendor's configuration detected during the self-learning, it only compares the current state of the motors with the one of the last self-learning performed.

```
MAIN MENU
Diagnostic
```
→ **F** →
```
Motor Verify
->->->->
```
→ **F** →
```
Motor  : x.x
```

[where x.x scrolls the motors sequentially]

If during the examination some errors are found out, the examination itself stops and the vendor shows one of the following messages:

```
Motor  : x.x
  Disconnected
```

It means that the corresponding motor had been detected by the last self-learning but now it is not detected by the examination

```
Motor  : x.x
Selftest error
```

It means that the corresponding motor had not been detected by the self-learning but now it is present.

```
Motor  : x.x
  Sensed C.C.
```

It means that the corresponding motor is in short circuit.

From these conditions of error it is possible to let the examination sequence go on pressing the key **F** or to stop it with the key **A**.

At the end of the examination sequence one of the following messages will be displayed:

```
    Check OK
Motors Conn.: XX
```

It means that no defects and/or differences between the present configuration and the one detected by the self-learning have been found, XX indicates the number of the motors recognized.

```
   Wrong check
Motors Conn.: XX
```

It means on the contrary that some defects and/or differences between the present configuration and the one detected by the last self-learning have been found, XX indicates the number of the motors recognized at the moment.

<u>At the end of the examination of the motors, the original configuration of the vendor is completely reset.</u>

N.B.: *at each examination the motors rotate of few grades, therefore repeating the examination more times the motors could loose the alignment , we suggest then to re-align the motors, for example carrying out a motors manual test, as described before in this handbook.*
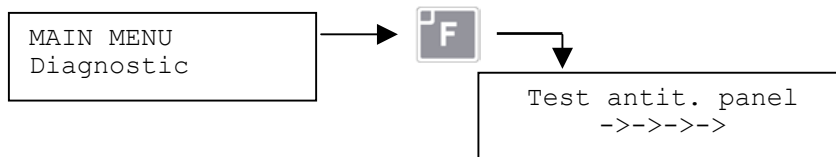
- MOTORS SELF-LEARNING:

choosing this item it is possible to repeat the self-learning of the motors present on the vendor, action allowed only with a password.

```
MAIN MENU
Diagnostic
```
→ **F** →
```
Motors SLearning
   ->->->->
```
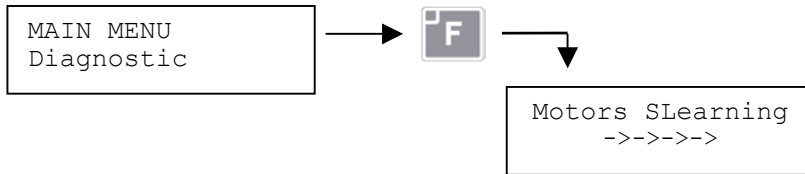
- TEST ANTITHEFT SLIDING PANEL.

Choosing this item you can test the operation of the sliding panel antitheft.

```
MAIN MENU
Diagnostic
```
→ **F** →
```
Test antit. panel
   ->->->->
```

Press the key **F,** on display will receive the following message:

```
O   C  ADC TC  Ttot
X   Y  ZZZ ZZZ ZZZ
```

Press the key **1** to open the sliding panel antitheft.
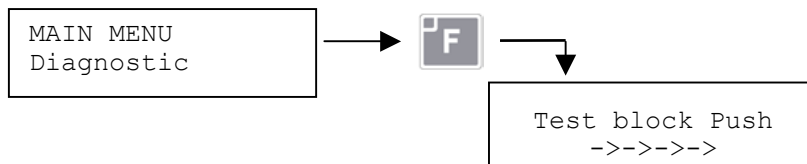Press the key **2** to close the sliding panel antitheft.

Parameter **O** → **X = 1** panel open.
Parameter **C** → **Y = 1** panel closed.

Pressing the key **A** you can come out of the submenu.

- TEST DOOR EXTRACTION PRODUCT "PUSH"

Choosing this item you can test the operation of the door extraction product "PUSH".

```
MAIN MENU
Diagnostic
```
→ **F** →
```
Test block Push
   ->->->->
```

Press the key **F,** on display will receive the following message:

```
CL LK  ADC OUT  F
 X  Y  ZZZ  Z   Z
```

Keep Pressed the key **F** to keep the door product "push" **unlocked**

With pressed the key **F** you can open the door product "push"

Parameter **CL** → **X = 1** Door product "push" *closed.*   **X = 0** Door product "push" *open.*
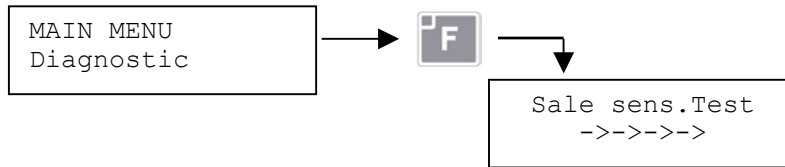
Parameter **LK** → **Y = 1** Door product "push" *blocked.*   **Y = 0** Door product "push" *unlocked.*

Pressing the key **A** you can come out of the submenu.

- SALE SENSOR TEST

Choosing this item It is possible to test the circuit of the sale sensors (FTCA).

```
MAIN MENU
Diagnostic
```
→ `F`

```
 Sale sens.Test
   ->->->->
```

Press key **F** , the following writing will appear:

```
 Left   Nois   Righ
  OK+    OK+    OK+
```

The parameters "Left" and "Righ" indicate the degree of intensity of light that is detected by sensors.

The Parameter "Nois" indicates the level of intensity of noise detected by the sensors

These three parameters allow you to understand the "status" of the system FTCA.

Possible values:

OK+ : The level is good

OK : The level is discreet

OK - : The level is minimal but sufficient

ERR : The level is insufficient

If one of the three parameters were to the level "ERR" the FTCA infrared system will be out of service.

When appears on the following written

```
 Left   Nois   Righ
  OK+    OK+    OK+
```

Press key **F** , the following writing will appear:

```
  FTCA 2 ACTIVE
 Mot:xx  Sens:xxx
```

Pressing the key **F** is possible to make a sale.

For each product sold that passes in front of the sensors, will be issued a "beep" and will appear on the display in the "Sens" a different value, plus the number (Sens) is high, plus easier it is to recognize the product sold to the FTCA system.

Pressing the keys **D** and **E**, is possible to change the selection indicated by the parameter "Mot".

Pressing the key **A** you can come out of the submenu.

- VENDOR'S FILLING:

After having completed the vendor's filling, it is possible to re-initialize the "empties control".

```
MAIN MENU
Products Load
```
→ `F`

```
  Recharging
  Completed
```
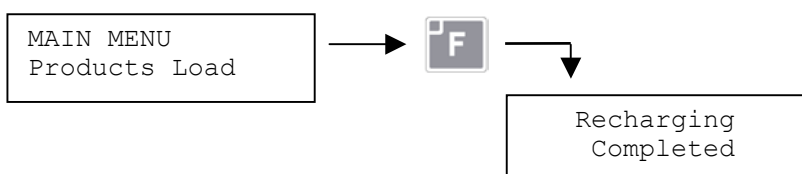
SUMMARY TABLE:

Menu	Parameter	Meaning	Min-Max	Adjusted at (*)	Default
Products Prices	Price N. : xx	The 32 sale prices	0 ÷ 99950	----	2.00
Prices Associat.	Shelf : L.C	Selling price (line) **L**, column **C**	01 ÷ 32	----	01
Coin Values	Coin Value 1	Coin value 1 (not used by the Executive payment system)			000.01
Coin Values	Coin Value 2	Coin value 2 (not used by the Executive payment system)			0
Coin Values	Coin Value 3	Coin value 3 (not used by the Executive payment system)			000.02
Coin Values	Coin Value 4	Coin value 4 (not used by the Executive payment system)			000.04
Coin Values	Coin Value 5	Coin value 5 (not used by the Executive payment system)			0
Coin Values	Coin Value 6	Coin value 6 (not used by the Executive payment system)			000.10
Bill Values	Bill Value 1	Values of the banknote 1 **(if present)**			1000
Bill Values	Bill Value 2	Values of the banknote 2 **(if present)**			5000
Bill Values	Bill Value 3	Values of the banknote 3 **(if present)**			10000
Bill Values	Bill Value 4	Values of the banknote 4 **(if present)**			0
Bill Values	Bill Value 5	Values of the banknote 5 **(if present)**			0
General Param's	Operating Modes	Operation	1 ÷ 4		2
General Param's	Min.Coin Values	Coin scaling factor	0 ÷ 255		000.01
General Param's	Decimal Point	Position of the decimal point			3
General Param's	Enable Exe.Reset	Automatic *reset* function of *Executive* payment systems	0 – 1 0 off		0
General Param's	Enable Price Dsp	Display of the selling price in modality *Executive*	0 – 1 0 off		1
General Param's	Language	Language of messages	0 – 4		Italiano
General Param's	Time Dsp Enable	Clock display	0 – 1 0 off		1
General Param's	ddd mm/dd hh:mm	Clock adjustment			
General Param's	Enab. sale sens.	Enable sale sensor	0 – 1 0 off		1
General Param's	FTCA max 3 sel.	Ftca max 3 sections	0 – 1 0 off		0
General Param's	Default.P. Reset	Reinitialization of the card		**Password request**	
Refrig. Param's	Probe 1 Temp.Set	Inside temperature	0 ÷ 44 °C		40
Refrig. Param's	Probe 1 Measure	Inside temperature reading		**Just reading**	
Refrig. Param's	Probe 2 Measure	Working temperature of the refrigerator (only on machines "–s")		**Just reading**	
Refrig. Param's	Security Temper.	Safety temperature			45
Refrig. Param's	OverTemper. Time	Overtemperature time			30
Refrig. Param's	Refueling Time	Supply Time			120
MDB Parameters	Min.Tube Led	Minimum coins to turn on the pilot light indicating the lack of change			7
MDB Parameters	Min Tube Rest	Minimum coins to return the change			5
MDB Parameters	Obligatory Sale	Compulsory sale	0 – 1 0 off		0

Menu	Parameter	Meaning	Min-Max	Adjusted at (*)	Default
MDB Parameters	Sale Modalit.MDB	MDB sale modalities			0
MDB Parameters	Maximun credit	Max. credit accepted	0 ÷ 635.35		
MDB Parameters	Enab.Man.Dispens	Manual emptying of the coin tubes	0 – 1 0 off		0
MDB Parameters	Sub-menú Coins and Tubes Parameter Coin : nn vvvvv in tube xxx yyy	Present coins			
MDB Parameters	Sub-menú Coins and Tubes Parameter Token : n vvvvv in tube xxx yyy	Present tokens			
MDB Parameters	Sub-menú Bill and Staker Parameter Bill : nn vvvvv Secur.X Act. ON	Present banknotes			
MDB Parameters	Sub-menú Bill and Staker Parameter * Token * vvvvv Secur.H Act. ON	Token			
MDB Parameters	MDB address slave	MDB address slave			0
Audit Data	Part. Sale Numb.	Partial meter of the vendor sale number	**Just reading**		
Audit Data	Part. Sale Value	Partial meter vendor sale value	**Just reading**		
Audit Data	Motor Sale Numb.	Meter sale number for each selection	**Just reading**		
Audit Data	Sale Numb. Lines	Meter sale number per line	**Just reading**		
Audit Data	Tot. Sale Numb.	Total number of vendor sales	**Just reading**		
Audit Data	Tot. Sale Value	Total value of the vendor sales	**Just reading**		
Audit Data	Audit Data Reset	Zero setting of Audit Data	**Password request**		
Diagnostic	Motors Out Of 0rd.	Search for out of order motors	**---**		**---**
Diagnostic	Manual MotorTest	Motors sale cycle test	**---**		**---**
Diagnostic	Motor Verify	Motors quick test	**---**		**---**
Diagnostic	Motors Slearning	Motors configuration self-learning	**Password request**		
Diagnostic	Test anti. panel	Test antitheft sliding panel	**---**		
Diagnostic	Test block Push	Test antit. panel	**---**		
Diagnostic	Sale sens. Test	Test the operation of the extraction product door "Push"	**---**		
Products Load	---	Re-initialize the "empties control"			

(*) Memorandum to fill after the programming

NOTE: "Default" = Value used automatically by a new and not programmed card or by a reset card.

DECLARATION OF CONFORMITY *CE*

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Declaration invalid
without the
identification tag

Dichiara che la macchina descritta nella targhetta di identificazione è conforme alle disposizioni legislative

delle seguenti Direttive: **2006/95 CE e 2004/108 CE;**

delle seguenti norme: **EN 60335-1:2002 + A1:2004 + A11:2004 + A12:2006**
EN 60335-2-75:2004 + A1:2005 + A11:2006
EN 55014-1:2000 + A1:2001 + A2:2002, EN55014-2:1997 + A1:2001
EN 55015:2002 + A1:2001 + A2:2002, EN 61547:1995 + A1:2000
EN 61000-3-2:2000 + A2:2005, EN 61000-3-3:1995 + A1:2001 + A2:2005
EN 50366:2003 + A1:2006.

e soddisfa i requisiti essenziali della Direttiva: **98/37 CE;**

Declares that the machine described in the identification plate is in accordance with the legislative dispositions

of the following Directive: **2006/95 CE e 2004/108 CE;**

of the following norms: **EN 60335-1:2002 + A1:2004 + A11:2004 + A12:2006**
EN 60335-2-75:2004 + A1:2005 + A11:2006
EN 55014-1:2000 + A1:2001 + A2:2002, EN55014-2:1997 + A1:2001
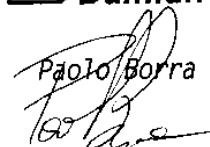**EN 55015:2002 + A1:2001 + A2:2002, EN 61547:1995 + A1:2000**
EN 61000-3-2:2000 + A2:2005, EN 61000-3-3:1995 + A1:2001 + A2:2005
EN 50366:2003 + A1:2006.

and satisfies the essential requirements of the Directive: **98/37 CE;**

Castellanza, 21 Febbraio 2007

Damian srl

Paolo Borra

Consigliere delegato

GENERAL WARRANTY CONDITIONS

In compliance with the laws, the device is guaranteed for 12 (twelve) months from the purchase date confirmed by a delivery document issued by the manufacturer.

Warranty means the free repair or the replacement by the manufacturer, of those parts of the device , which are faulty because of defects in manufacturing.

The faulty parts will be sent back by the customer, ex manufacturing works. If some parts in warranty must be repaired or replaced by the customer's location, by workers sent by the manufacturer, the labour costs and the travel expenses will be charged to customer.

The warranty does not include those parts which are faulty because of negligence or carelessness, wrong installation or maintenance, immoderate use, maintenance operations carried out by unskilled workers, caused during the transport, that is caused by events not due to defects in manufacturing of the device . Also the technical interventions to install and to connect the device to the feeding plants are not included in the warranty.

Damian S.r.l. is not responsible for injuries to persons or things caused directly or indirectly by the lack of observance of the information in this handbook and of any other information given by the manufacturer to the customer, concerning, above all, the installation, use and maintenance of the device.

The replacement and the prolongation of the warranty further to damage.

Reservation of technical modification

To improve the quality of the products and to guarantee a higher and higher safety and environmental protection level, Damian S.r.l. reserves the right to change the technical particulars and the constructive features of its own products without notice.

Damian S.r.l. reserves the right to inform its customers by information slips, handbook updating, communication or other proper means of information all the changes regarding safety and environmental protection and all other information which could be useful.