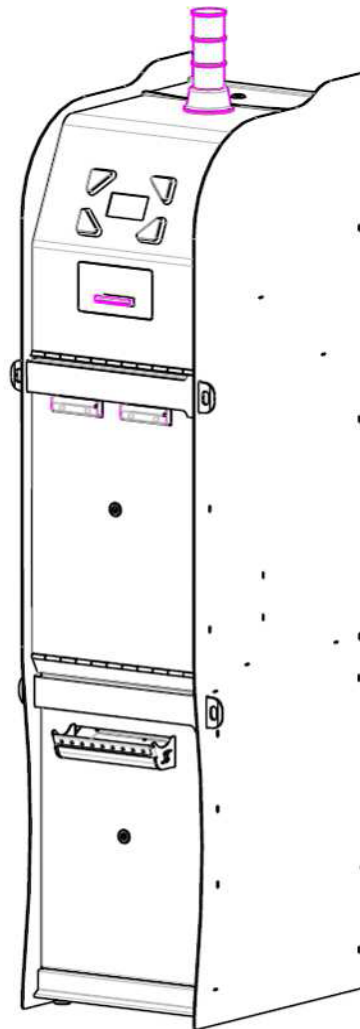




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Break

Banknote change machine



EN

Operating Manual

DESCRIPTION OF THE SYMBOLS USED IN THIS MANUAL

The following symbols are used in this manual in order to facilitate its understanding.



Important information



Read carefully before use



Attention!

DECLARATION OF CONFORMITY

THE MANUFACTURER: Comesterogroup s.r.l. via M. Curie 8,20060 Gessate MI

STATES:

That the product:

TYPE: Banknote change machine

BRAND: Comesterogroup

MODEL: Break

Is compliant with the following European Directives and related amendments, and with the national laws that have acknowledged these directives:

2004/108/EC

2006/95/EC

And that it has been designed in accordance with the following harmonised standards:

EN 55014-1

EN 55014-2

EN61000-3-2

EN61000-3-3

EN62233

EN 60335-2-82 used in combination with EN-60335-1

Gessate, 15/06/2011

Riccardo Chionna, Managing Director of Comesterogroup s.r.l.



SAFETY INFORMATION

This machine is fitted with safety devices to prevent potential damages originating from short-circuits and fires.



These devices should never be disconnected from the circuit, removed or disabled for any whatsoever reason.

If the devices must be disabled to carry out maintenance or servicing, work on the appliance only when the power supply has been switched off.



All safety devices are compliant with current regulations.

We recommend that the operator periodically check their correct operation.

Risks deriving from using the machine

If maintained in good operating conditions and installed correctly (according to the instructions of this manual), the machine does not pose any danger for the operator.

The personnel appointed to load the dispenser, turn the equipment on, and service it must take into account that all of the moving parts, the doors, the cash box, can cause injuries of varying degrees, if not handled as required; it is also good practice to cut off the power before performing any operation when the equipment is open (maintenance, etc.).



Electrical hazards: direct contacts during connection to the main power supply.
Operations to be carried out by a **qualified technician**.



Crushing risks when moving mobile parts of the machine.
The compartments of the machine must be opened and closed slowly and carefully.

EN

Hazards during machine installation and setup

Follow the machine installation instructions below to minimise risks for people and property.



Crushing risks during handling and positioning of the machine.
The machine must be transported by a **qualified technician** experienced in the handling of loads (truck operators, etc.).

Precautions:

- Use suitable lifting devices and slings
- Perform all operations in an area free from obstacles and people
- Before lifting the machine, always verify that the load is stable and perform all operations while very carefully keeping the load as balanced as possible.



Electrical hazards: direct contacts during connection to the main power supply. These operations must be performed by a **qualified technician**.

Precautions:

- Make sure that the distribution line is sized according to the power supply used by the machine.
- Connect the earthing system before connecting the machine or the accessories.

Hazards during machine maintenance



Electrical hazards: direct contact with live parts within the electrical cabinet.

Operations to be carried out by a **qualified technician**.

Precautions:

- Service the machine only after the main power supply has been switched off.

Labels

Warning labels have been installed on the machine close to dangerous areas. These labels contain traditional danger pictograms with standard symbols and/or written indications.



GENERIC DANGER



RISK OF ELECTRICAL SHOCK



EARTH

GENERAL WARRANTY CONDITIONS

Carefully read the following section for information on the general warranty conditions provided with this product.

All products supplied by our company are covered by a 12-month warranty. The warranty period starts from the date of purchase (the invoice shall be proof). The warranty covers only the ordinary operation of the machine and the result of the service it provides. Warranty repairs will be carried out in the manufacturer's factory only.

The manufacturer declines any responsibility for damage resulting from the use of the machine in environmental conditions different from those stated and in technical conditions other than those prescribed and stated in the technical documentation. The manufacturer also declines any responsibility for direct or indirect damage not related to faults. The warranty is void and null if the purchaser is insolvent in paying the established price.

The warranty does not apply in the following cases:

- tampering with the label that bears the serial number of the machine;
- damage or fault caused during transport;
- damage or fault resulting from acts of vandalism, natural disasters or fraudulent acts;
- incorrect or inappropriate installation of the product;
- inadequacy or anomaly of the electrical systems;
- carelessness, negligence or lack of skill in using the product;
- failure to follow the operating instructions;
- operations linked to alleged faults or inspections conducted for convenience;
- unauthorised operations on the machine.

Unauthorised operation or manipulation of the goods supplied will result in the immediate cancellation of the warranty. We claim to have taken into careful consideration, to the best of our knowledge and manufacturing practice, the issue of inviolability of the goods provided by individuals who intend to alter the operation of the machine with wilful misconduct. We will nevertheless not be held responsible for any illicit conduct or damage that may derive from the fraudulent use of the goods provided.

Dear Customer,

Thank you for choosing a Comestergroup product. If you follow the instructions contained in this manual carefully, you will be able to enjoy the performance and quality of this machine over time.

Please read the operation and maintenance instructions carefully, in compliance with the safety provisions, before using the machine and store this manual for future reference.

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1. Introduction

This manual and its attachment provide all the information required to install the machine and all its components and use it, along with all the technical information for correct maintenance.

The information in this manual can change without notice and is not binding upon Comestergroup.

While Comestergroup has taken all measures to collect and check the information contained in this manual, it declines any responsibility for damage arising from the use of the manual.

Unless otherwise specified, all references to companies, names, contacts and addresses used in the examples are purely fictional and have the aim of illustrating the operation of the product. The whole or partial reproduction in any form of this manual without the explicit authorization of Comestergroup is strictly forbidden.

2. Product overview

Comestergroup is proud to present Break, a new generation banknote change machine with superior performance that is capable of dispensing change automatically and intelligently.

Break uses the CCTalk protocol to communicate with all peripherals and also has an advanced CPU with a removable SD card so that all accounting data and the event log may be exported with an SD card and processed on a personal computer in Excel.

The SD card may also be used to clone the machine's configuration parameters and export them onto another Break, all without the aid of an external programmer.

To achieve maximum security against vandalism and theft, Break is supplied with special chrome-plated iron bars to protect the cash box and its contents.

3. Warnings



Read this manual carefully before installation.

Acquiring familiarity with the information and prescriptions contained in this manual is essential for a correct use of the machine. Upon receiving the machine, verify that the machine and packaging have not been damaged during transport.

Pay particular attention to the electrical connections. Damage originating from the failure to comply with all the warnings provided in this manual is not covered by warranty.

Specific symbols are used in this manual to emphasise specific instructions that must be carefully observed.

4. Handling and unpacking

4.1 Receipt of the packaged product

Check upon receipt that the product has not been damaged during transport. If damage of any kind is visible, immediately report it to the carrier.

After transport the package must be complete, that is, it must *not* :

- show dents, signs of shocks, deformation or breakages of the container.
- show areas that are wet or signs that could lead to the assumption that the casing has been exposed to rain, frost or heat.
- there must be no signs of tampering on the container.

Check that the content of the package matches the order.

4.2 Handling



In order to avoid damage to the machine we recommend moving it only when it is inside its original package, using suitable handling machines. Follow the handling instructions printed on the container. Given the weight of the machine, it is advisable to handle Break with automatic or manual trolleys designed for the transportation of heavy loads. If this is not possible, slide the change machine on its base or on an axis with wheels as far as the site of installation. Break is fitted with four adjustable supporting feet that enable the machine to be levelled even on irregular surfaces and that enhance its stability. Adjust the height of these devices depending on the characteristics of the resting surface.

Following initial inspection, put the apparatus back in its box for transportation to its final location.

It is advisable to:

Avoid dragging the machine.

Avoid tilting the container or resting it on one side during transport and handling.

Avoid bumping the machine.

Avoid leaving the machine exposed to the weather (even if still in the package).

4.3 Unpacking

After being tested and equipped the machine is delivered within a corrugated carton package which ensures it is protected during transport and handling.

To simplify the loading/unloading of the machine, even if special machinery is used, the container is usually placed on a special wooden pallet.



Unpack the machine following the instructions printed on the container.

Both the cardboard package and the pallet meet the standards for recycling and disposal (follow current local regulations).

4.4. Identification of the machine

Figure 1 shows the nameplate with the main operating specifications and identification data. Pay particular attention to the serial number printed on the box. Always mention this number any time you require service, parts, repairs or information relative to the operation of the machine.

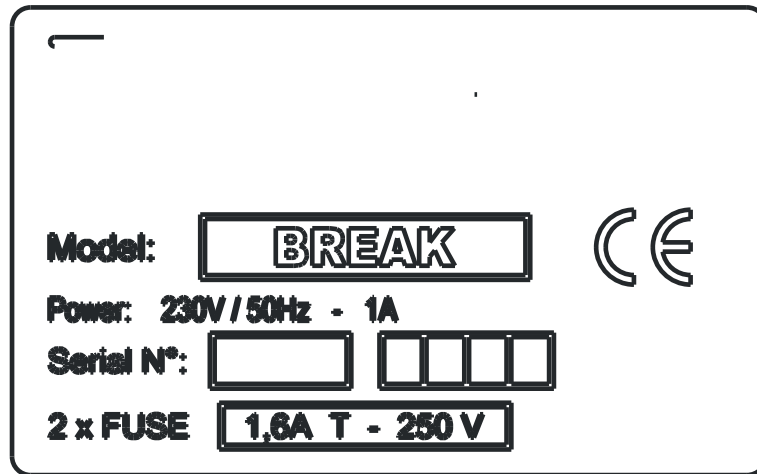


Fig. 1

EN

Each machine has two identification plates, one of which is applied on the back and the other inside the left wall of the central compartment, to ensure that the serial number can be read even if the back of the machine is attached to a wall.



Fig. 2



Fig. 3



Fig. 4



The identification plate is attached to the machine and must be clearly legible. It is prohibited to remove it or tamper with the data printed in it. If the nameplate is damaged or is lost, it is necessary to order a replacement from the manufacturer. It is important to remember that the warranty is associated with machine's identification number.

4.5 Description of the parts

NAMES OF THE PARTS (external view):

- A. Luminous signal tower (optional).
- B. Power switch compartment with lock.
- C. Display.
- D. Selection buttons.
- E. Printer (optional).
- F. Banknote reader (the first one is standard, the second is optional).
- G. Banknote reader compartment with lock.
- H. Banknote dispenser.
- I. Banknote dispenser compartment with lock.

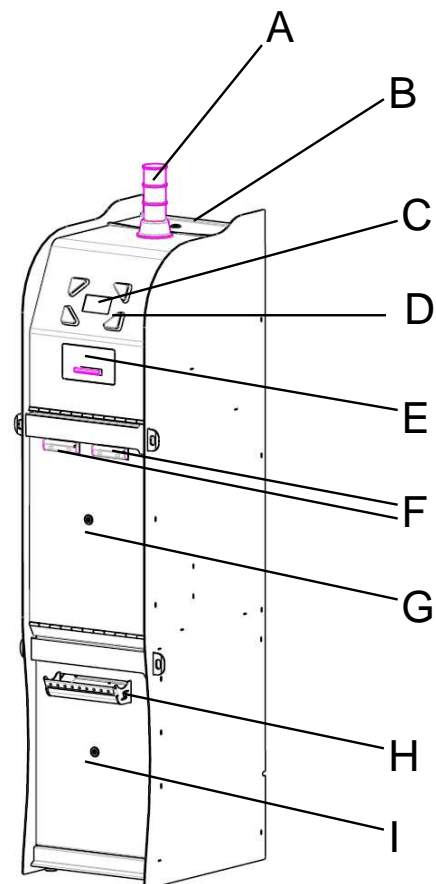


Fig. 5

NAMES OF THE PARTS (internal view):

- L. Main switch.
- M. Printer (optional).
- N. Banknote dispenser.
- O. Cash box compartments.

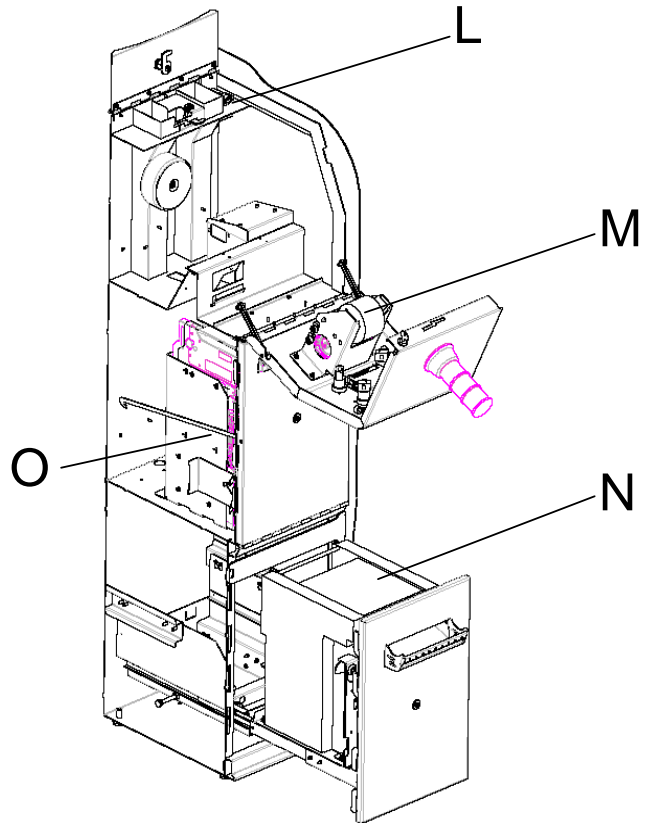


Fig. 6

EN

NAMES OF THE PARTS (internal view):

- P. CPU.
- Q. Buzzer.
- R. Slot SD card.
- S. Printer.
- T. Banknote reader.

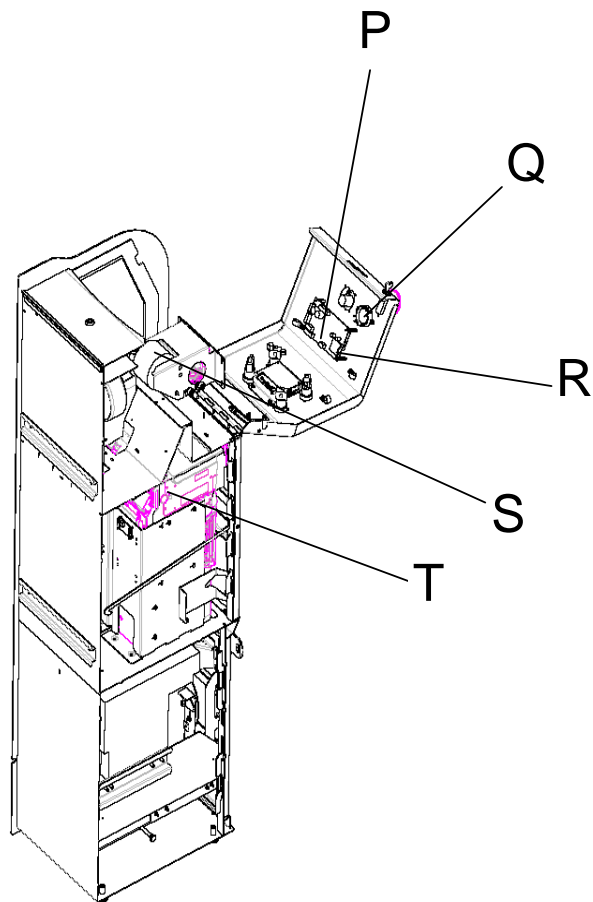


Fig. 7

4.6 Accessories

The standard machine is supplied with the following accessories:

- Operator's Manual
- Special chrome-plated steel security bars
- SD card (already installed)
- Keys to open the compartments:

Two keys are supplied for each of the three locks fitted on the machine.

It is advisable to separate them and keep one copy of each key in a safe place different from the ones on the set of keys normally used.

It is also advisable to note the serial number chiselled on each key in order to be able to request a copy to Comesterogroup in case of loss.

- Programming key: to access the configuration menu.

We recommend keeping the programming key in a safe place.

Upon client request it is possible to install the luminous signal tower, the printer, the lock to access the cash boxes and the lock to access the drawers of the banknote dispenser.

If the lock to access the cash boxes is included, it is nevertheless possible to remove the banknote reader heads without having to use the key, for cleaning and maintenance, whereas the cash boxes and the entire structure for the banknote reader cannot be removed without using the specific key.



Fig. 8

If the lock to access the banknote dispenser is included, it is nevertheless possible to remove the entire structure of the banknote dispenser without having to use the key, for cleaning and maintenance, whereas the individual drawers cannot be removed without using the specific key.



Fig. 9

5. Installation

5.1 Overall dimension

The figure below shows the overall dimensions of the machine and should be used as reference during the positioning and installation of the machine.

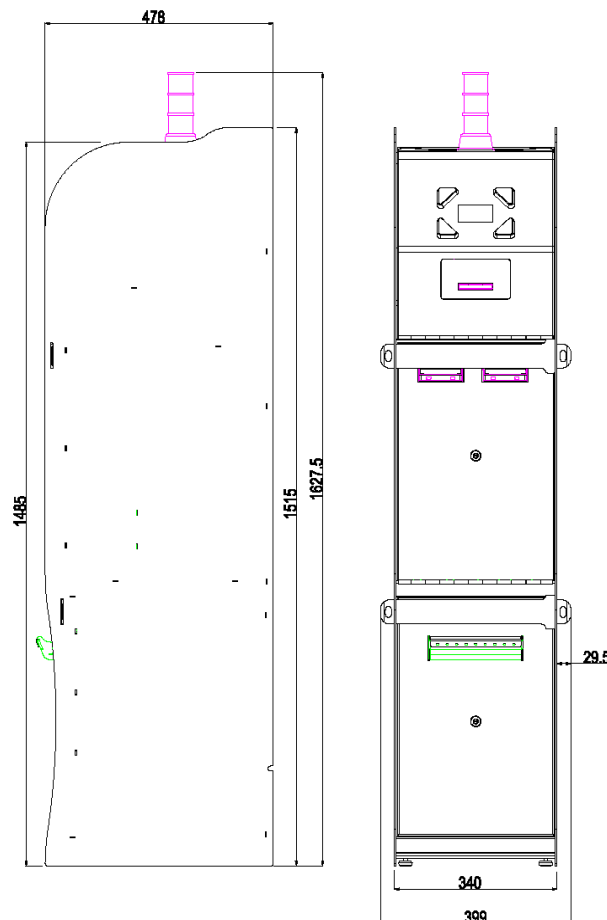


Fig. 10

5.2 Wall anchorage

It is advisable to fix the machine to the wall using expansion plugs. Break has four pre-drilled holes on the back of the cabinet to allow the machine to be fixed to a wall and two holes on the base for floor anchoring. Break also has four adjustable supporting feet to permit levelling and improve stability, even on an uneven surface. Adjust the height of the feet as required based on the supporting surface.

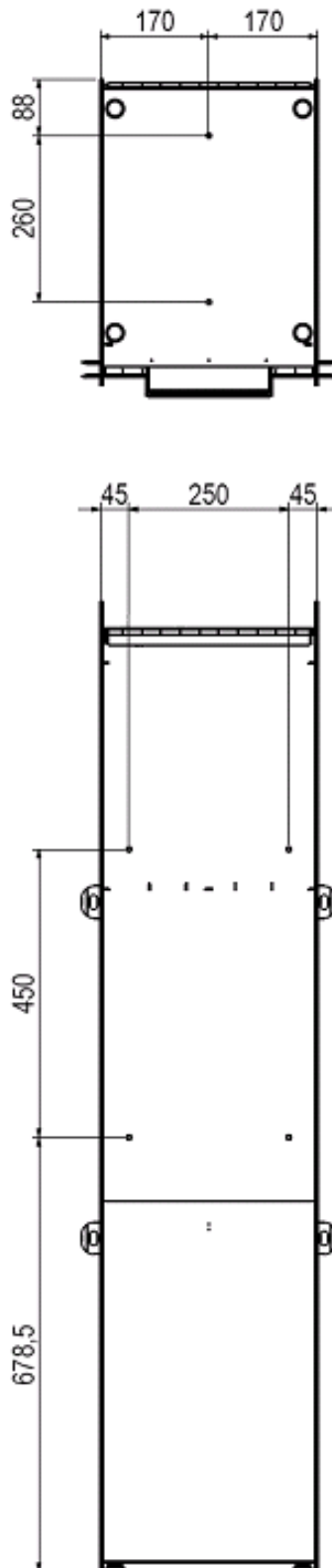


Fig. 11

6. Connections



All electrical connections of the machine are already installed except the power supply. Before connecting the machine to the power supply, check that the main switch situated in the top compartment inside the change machine is in position “0” or OFF, as shown in the Figure 12 below.

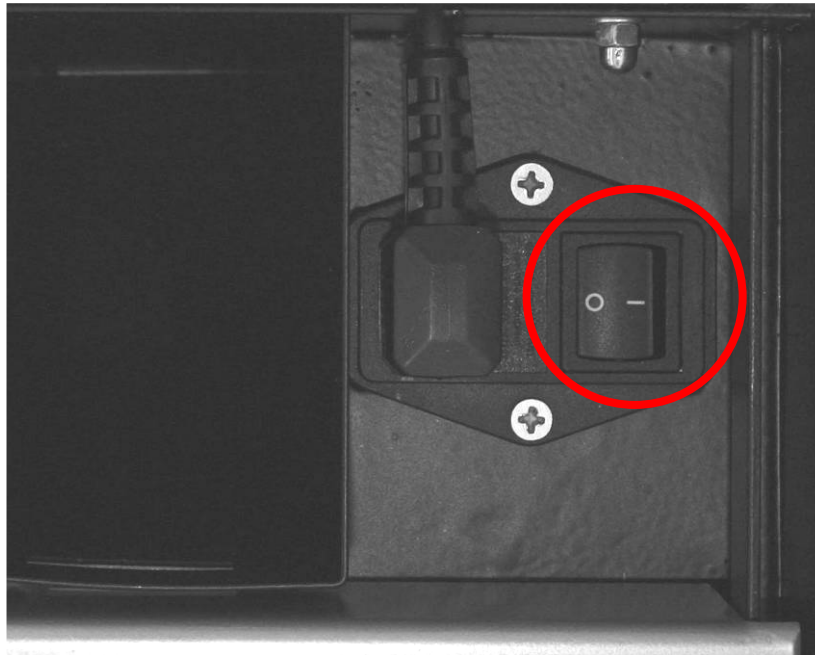


Fig. 12



Make sure that the rating of the outlet that the machine has to be connected to matches that of the machine, and is protected by a differential magneto-thermal switch with appropriate specifications. Connect the machine to the mains using the cable supplied (the cable that is pre-assembled in the main machine switch, situated on the back of the machine).

EN

N.B. :

For installation instructions, refer to the specific regulations concerning protection against contact with electric components.

7. Starting the machine

Read the instructions provided below carefully before beginning to use Break.

7.1 Removing and replacing the cash boxes

The cash boxes are located in the central compartment of the banknote change machine and are protected by a safety lock. Open the central door by 90° to access the cash boxes.

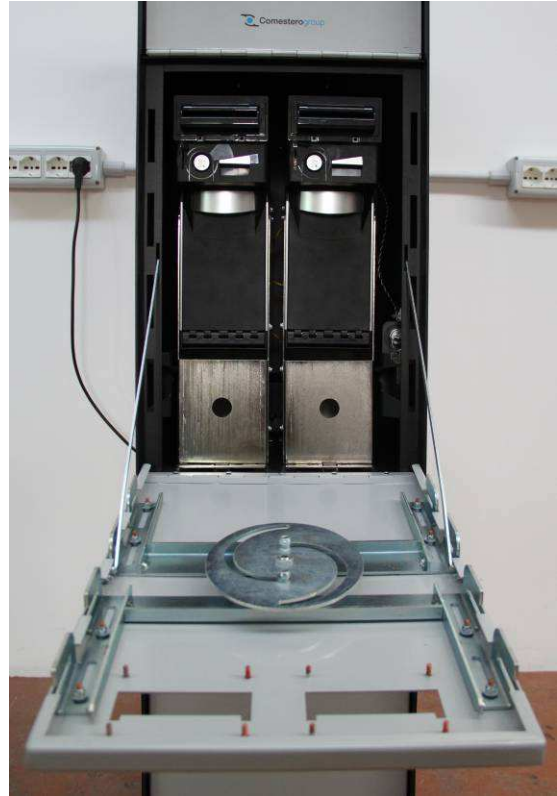


Fig. 13

To remove each of the two cash boxes grab onto the handle and pull the container forwards.

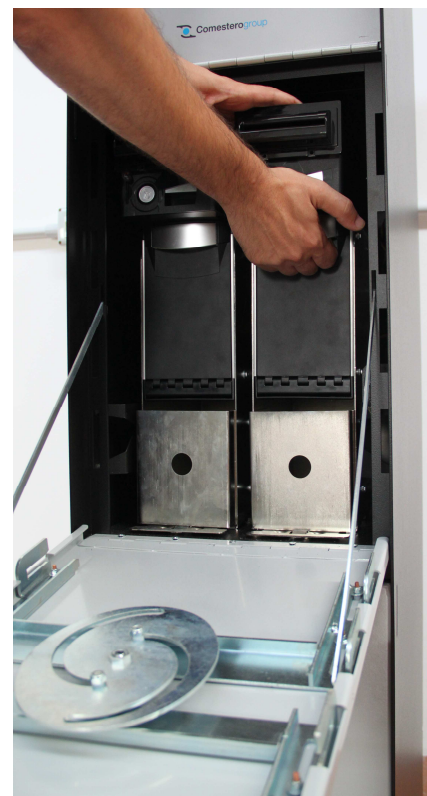


Fig. 14

The light for the banknote reader, initially blue, will flash red.
To remove the contents of the cash box turn the container over, and open the door by pressing the flap



Fig. 15



Fig. 16

EN

and slide out the banknotes.



Fig. 17

Then close the door with the flap, place the cash box back into place and slide it in until it stops. After a few moments the light for the banknote reader will switch back from red to blue.

N.B.
Inserting the cash boxes incorrectly could cause the machine to malfunction (always make sure that the cash boxes have been correctly pushed back into place).

7.2 Filling the Puloon LCDM2000 dispenser with banknotes

Banknotes are dispensed by the Puloon Technology LCDM2000 device installed in the lower compartment of the change machine, which may be accessed using one of the 3 keys provided.



Fig. 18

The Puloon LCDM2000 device has two drawers for storing banknotes to be dispensed and one reject drawer in which banknotes considered unsuitable are stored, if they are damaged or temporarily stuck together.



Fig. 19

The drawers are provided in formats that are suitable for the type of banknotes required when the banknote change machine is purchased. Each drawer containing banknotes may be filled with notes of same type or single type, accordingly Break can dispense one type or two different types of notes

If you load the drawers with one type of banknotes, the machine will dispense banknotes will be picked up, in alternative way, from the two drawers until the banknotes will be over.

Follow these instructions to fill the drawers:

1. Shuffle the banknotes repeatedly before putting them in the drawer, especially if they are brand-new.



Fig. 20

EN

2. Put the notes together in a single bundle.



Fig. 21

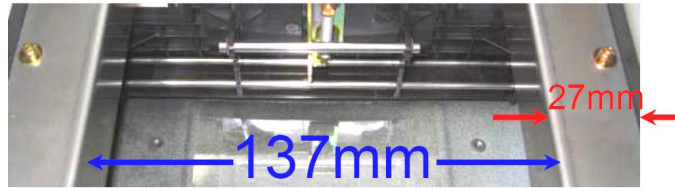
3. Open the lid of the drawer and lift the pressure surface, locking it in place.



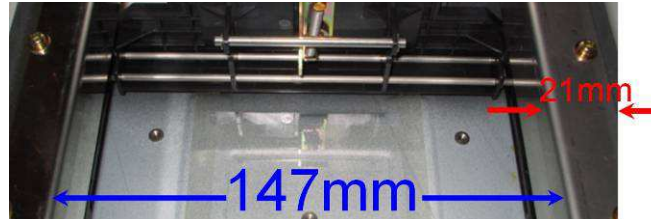
Fig. 22

- The machine is equipped with guides to handle the type of banknotes requested by the client. Check the type of guide to be used, according to the dimensions of the banknotes: size S for 5-10-20 € and size M for 50 € and up.

DRAWER SIZE "S" for 5/10/20 €



DRAWER SIZE "M" for 50 €



- put the bundle of notes in the drawer.



Fig. 23

- release the pressure surface so that it presses down on the notes.

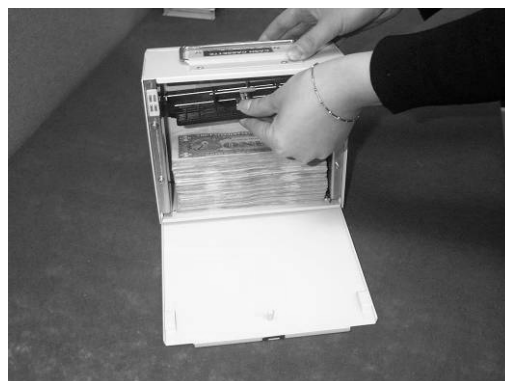


Fig. 24

- Before putting the drawers back in their compartments, press down on the notes from the outside in, as shown in Fig. A (also shown on the lid of the drawer). In fact, this operation allows you to position the first banknotes correctly, which may otherwise partially stick out from the drawer, thus obstructing the dispensing action (Figure B shows banknotes inserted incorrectly).

Make sure that the banknotes are positioned as shown in Figure C before placing the drawer in its compartment.

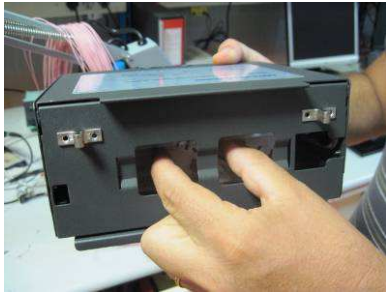


Fig. A



Fig. B



Fig. C

8. Place the drawers in their housings.



Fig. 25

EN

N.B.

Placing the banknotes in their drawers incorrectly could cause malfunctioning (always make sure that the banknotes have been inserted correctly and the drawers are in their proper compartments).

7.3 Changing the programming parameters of the banknote dispenser LCDM2000



It is necessary to turn the machine off before accessing its hardware to change the configuration parameters of the banknote dispenser. To change the configuration parameters for the banknote dispenser it is necessary to set the dip switches located on the interface board on the back of the banknote dispenser.

1. To access the interface board for the banknote dispenser open the bottom door of the machine until it reaches the limit stop.



Fig. 26

2. Unscrew the two pins that hold the supporting frame for the entire dispenser.



Fig. 27

3. Pull the frame for the dispenser out using the handle.



Fig. 28



Fig. 29

4. Turn it by 90°, being very careful not to touch or rub it against the cables that the rear part of the frame is connected to.



Fig. 30

5. Place the dispenser on the guides of the door.



Fig. 31

6. At this point the interface board for the dispenser becomes accessible and it is possible to change the position of the dip switches, depending on the banknote denomination that you wish to place inside the drawers.

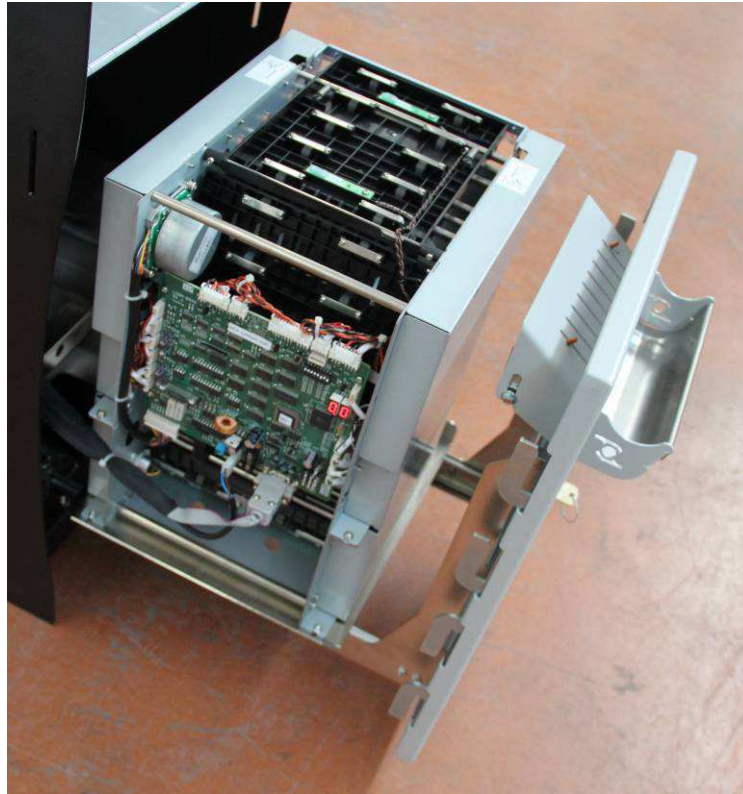


Fig. 32

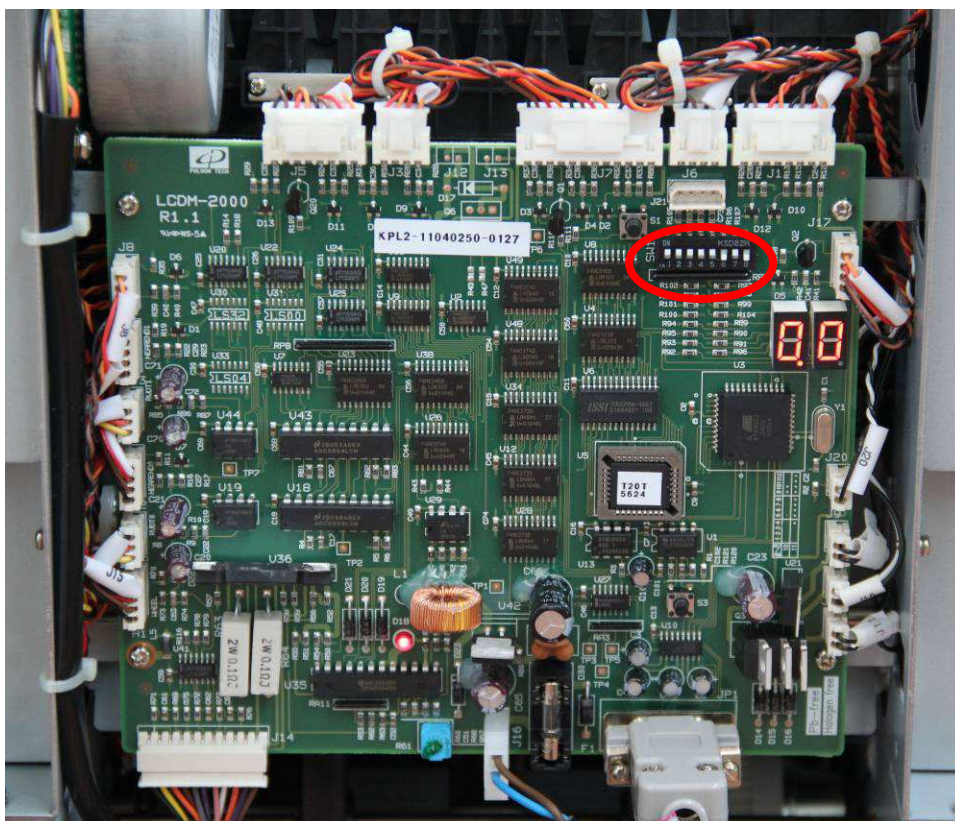


Fig. 33

The dip switches for the machine provided by the manufacturer are configured in the following way:

- The first 5 dip switches are always ON.
- Dip switch 6 is always OFF, as shown in the figure.

- The position of dip switch 7 depends on the type of banknote that you wish to place inside the second note dispenser (the bottom drawer).
- The position of dip switch 8 depends on the type of banknote that you wish to place inside the first note dispenser (the top drawer).

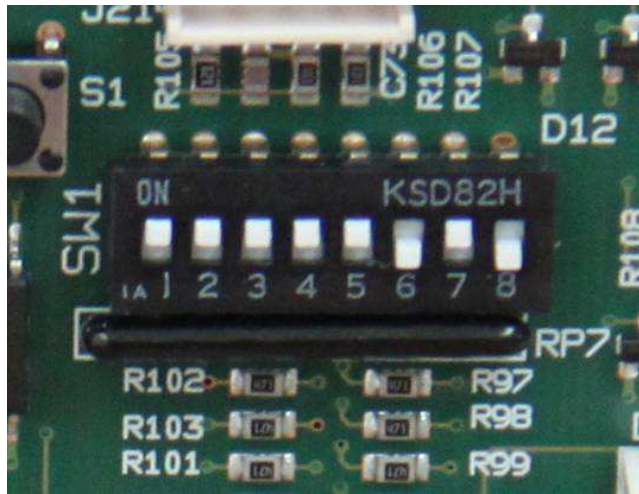


Fig. 34

Dip switch settings allow you to pilot how the banknotes in the drawers will be dispensed. They should be set based on the size of the banknote contained in each individual drawer.

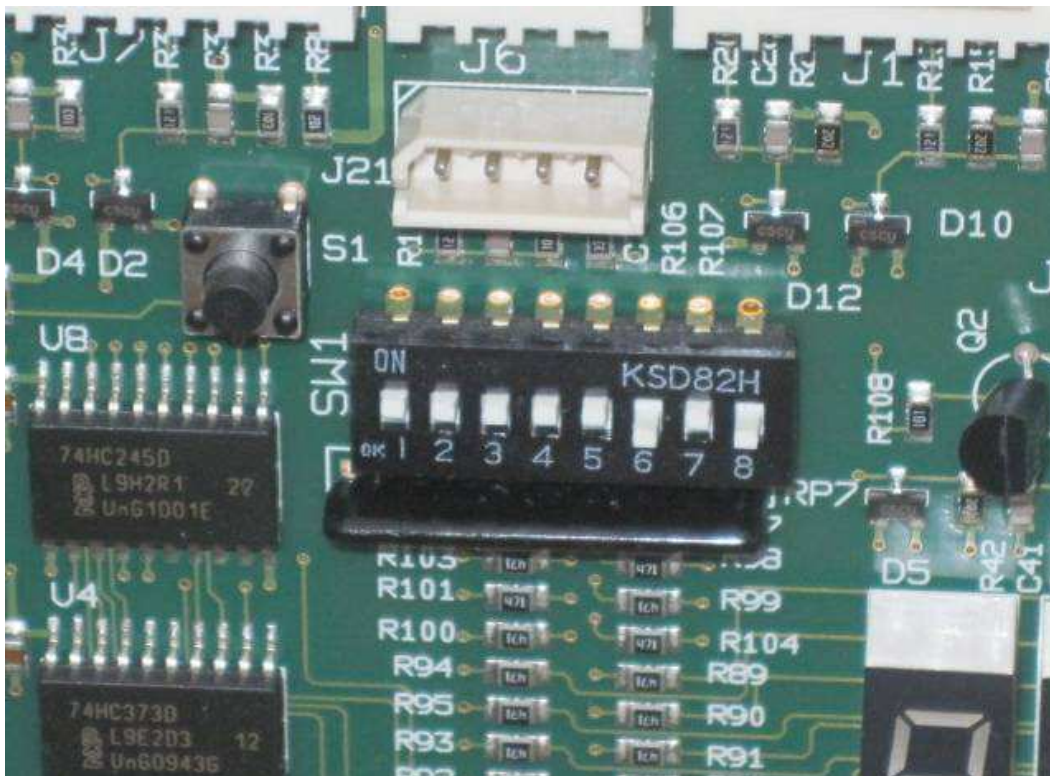
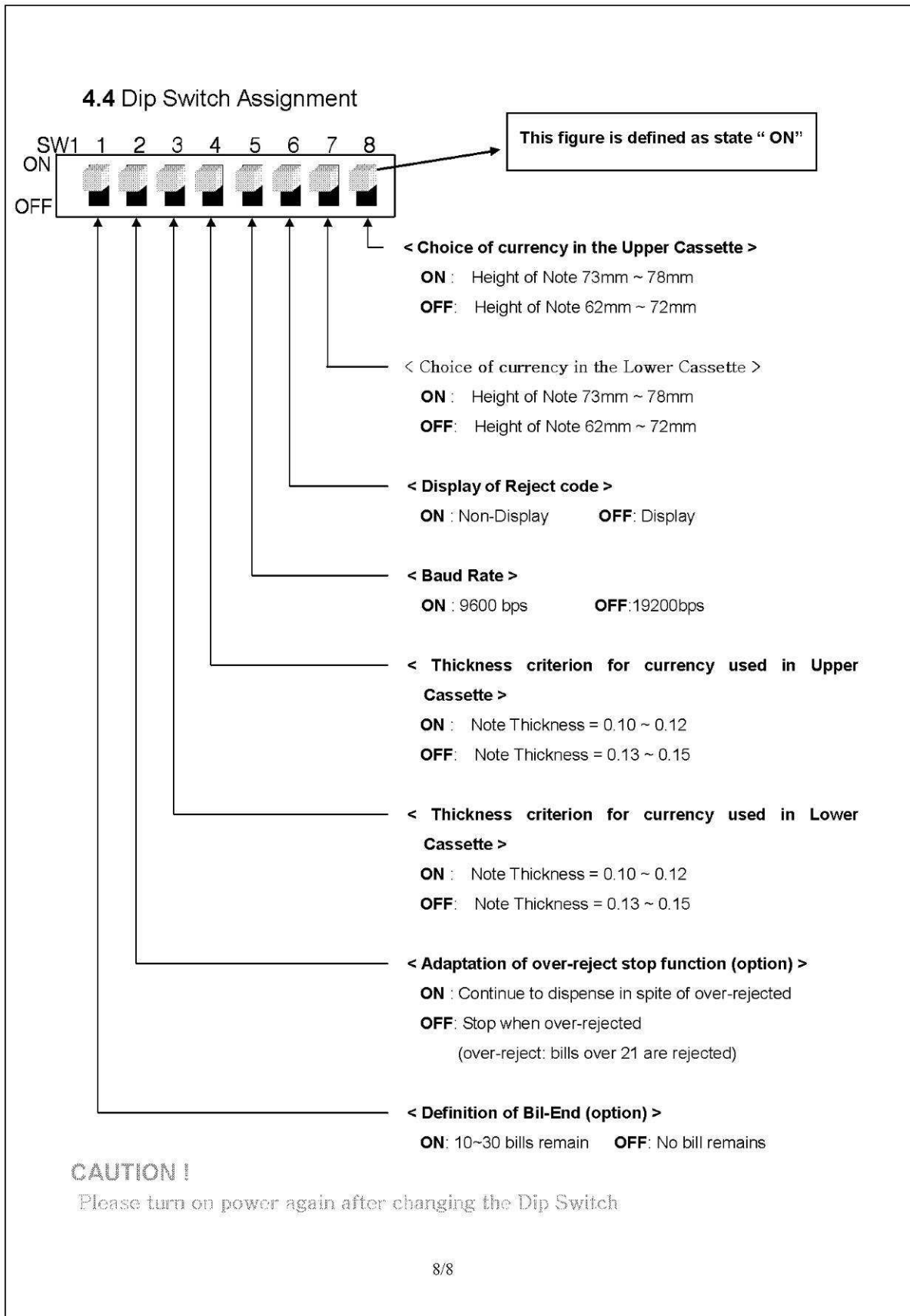


Fig. 35












The instruction for correct dip switch setting are here below:



EN

To set the dip switches correctly, follow the directions in the table below.

7.3.1. Incoming and Outgoing Banknotes Table

BANKNOTES		Banknotes acceptable by NV200	Banknotes that Puloon may dispense				Banknotes guides (right & left)	Dip Switch settings	
			Minimum		Maximum			Top Drawer 1 Dip Switch 8	Bottom Drawer 2 Dip Switch 7
			Height	Width	Height	Width			
			62mm	100mm	78mm	162mm			
EURO		May be accepted	May be dispensed but not recommended 120 x 62				Model S 27 mm	OFF	OFF
		May be accepted	May be dispensed 127 x 67				Model S 27 mm	OFF	OFF
		May be accepted	May be dispensed 133 x 72				Model S 27 mm	OFF	OFF
		May be accepted	May be dispensed 140 x 77				Model M 12 mm	ON	ON
		May be accepted	May not be dispensed 147 x 82				/	/	/
		May be accepted	May not be dispensed 153 x 82				/	/	/
		May be accepted	May not be dispensed 160 x 82				/	/	/
POUND		May be accepted	May be dispensed 135 x 70				Model S 27 mm	OFF	OFF
		May be accepted	May be dispensed 142 x 75				Model L 12 mm	ON	ON
		May be accepted	May not be dispensed 149 x 80				/	/	/
		May not be accepted (too high)	May not be dispensed 156 x 85				/	/	/

The notes in the table are only an example of all possible notes that can be accepted and dispensed. Check the dimensions for different currencies.

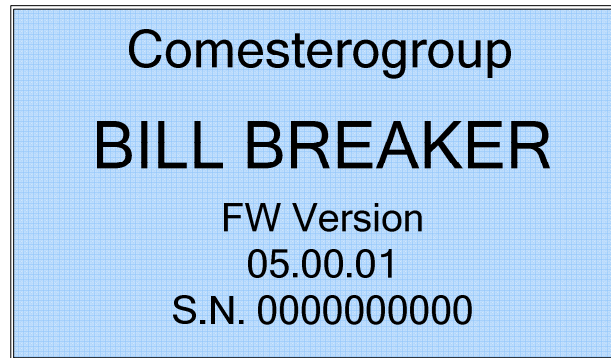
N.B : Values outside the specified range are shown in bold type. Dip Switch settings take into consideration the shortest side of the banknote. The machine must be restarted whenever dip switch settings are changed.

7.4 Basic operation

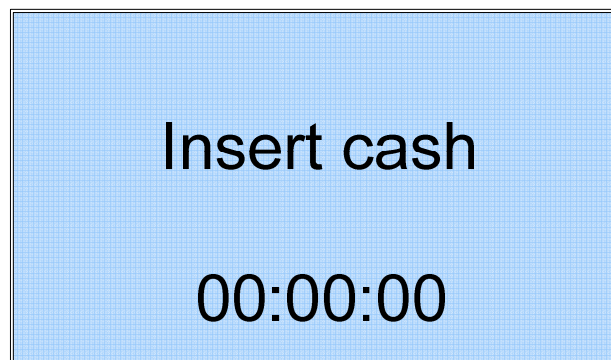
Break is fitted with a graphic display (B) that guides the user through basic operations as well as configuration procedures, and the 4 triangular selection buttons located in the corners of the display, are enabled and back-lit only during the configuration procedures.

The set default language for Break is English. It is nevertheless possible to select other languages through the configuration route **SETUP**→enter password→**CONF**→**SETU**→>>>→**LANG** explained in more detail in par. 8.3.3.1.

When Break is turned on the following initial screen will appear,



immediately followed by this screen



EN

asking you to insert a banknote.

To start Break, the user must insert a banknote in either the first or second reader.

The denomination of the note being inserted must be greater than the lowest of the two denominations stocked in the dispenser drawers.

If a note of the same denomination or lower than the denominations loaded in the dispenser, the reader will refuse to accept it.

If a note of a greater denomination than the lowest denomination stocked in the dispenser is inserted, the machine will automatically dispense as many notes of the lowest denomination required to issue the value that was inserted.

The drawers of the dispenser are marked as empty when the number of notes they contain drops below the minimum reserve level, of approximately 30 notes, set to allow the last change operation to be carried out.

If the dispenser has finished the denomination of the notes required for the exchange, the reader will refuse to accept the note.

Ex. The drawers of the dispenser are configured to contain 10 and 50 Euro notes. If a 10 Euro note is inserted, the reader will not accept it. If a 50 Euro note is inserted, the reader will accept it and five 10 Euro notes will be issued. If the 10 Euro notes are completely finished or the reserve is below the minimum level and a 50 Euro note is inserted , the reader will refuse it.

Once the note has been inserted, the amount picked up by the reader will appear on the display for a few moments.



Dispensing will then be enabled automatically and the amount being issued will show up on the display, increasing with every note being dispensed:



N.B. If one of the denominations loaded into the dispenser are finished, the yellow light will go on the signal tower, and if both denominations loaded into the dispenser are finished, the red light will go on the signal tower.

8. Programming

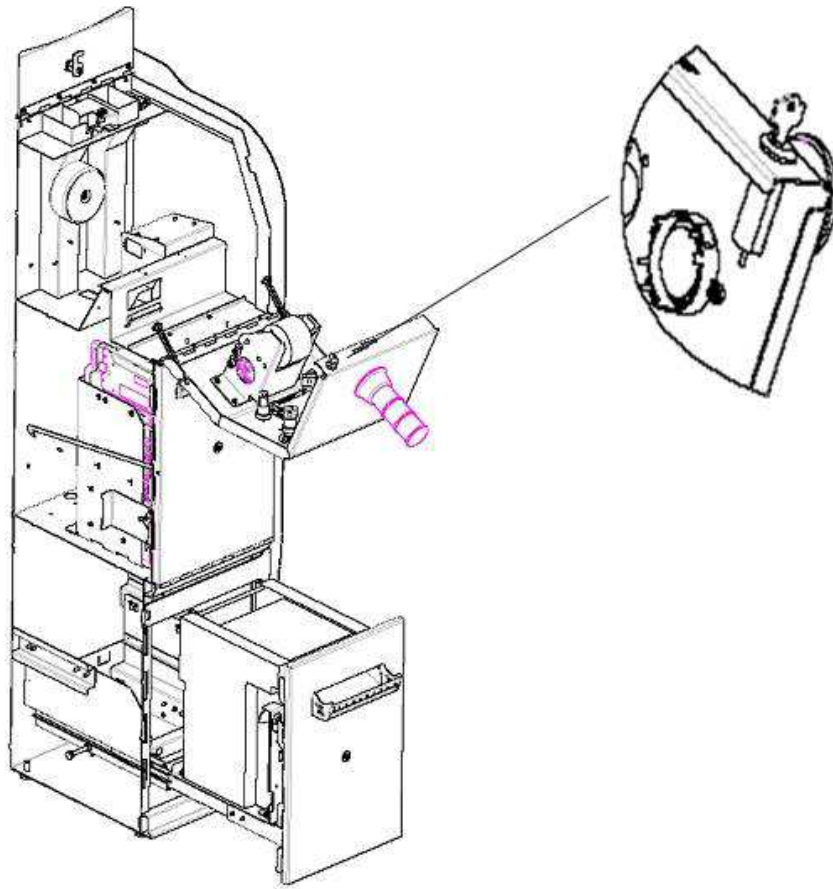
8.1. Introduction

Break is configured without the aid of an external programmer, using the buttons at the corners of the display directly, or by importing the configuration from an SD card. The SD card has various functions. A “.csv” extension file where all of the operations performed by the machine are listed, is registered on the SD card by default. To access this file simply remove the SD card from the machine and read it on a PC. The collected data is inserted in the SN_serial number folder and subdivided by year and then by month. A “day-month-year.csv” file is available for each month, with a list of completed operations.

	A	B	C	D	E	F	G	H
1	2011	8	19	15	8	Power Up	1	0
2	2011	8	19	15	8	Firmware v	49	1.04.00
3	2011	8	19	15	8	Cash In	3	20.00
4	2011	8	19	15	8	Starting pa	4	20.00€
5	2011	8	19	15	8	Coin out	47	10.00
6	2011	8	19	15	8	Coin out	47	10.00
7	2011	8	19	15	58	Power Up	1	0
8	2011	8	19	15	58	Firmware v	49	1.04.00
9	2011	8	19	15	58	Maintenan	20	0
10	2011	8	19	15	58	Maintenan	20	0
11	2011	8	19	15	58	Pwd OK	21	0

In addition to this, the SD card can also contain other information of the user programs it in. Such information (specifically accounting data, the configuration of the machine and the translation of the strings of text that appear on the display in the four available languages) is better described in the following paragraphs.

The four buttons at the corners of the display can be used to program the machine once the configuration menu has been accessed.
To enter the Break configuration menu it is necessary to open the top door, insert the programming key into its lock and turn it clockwise.



EN

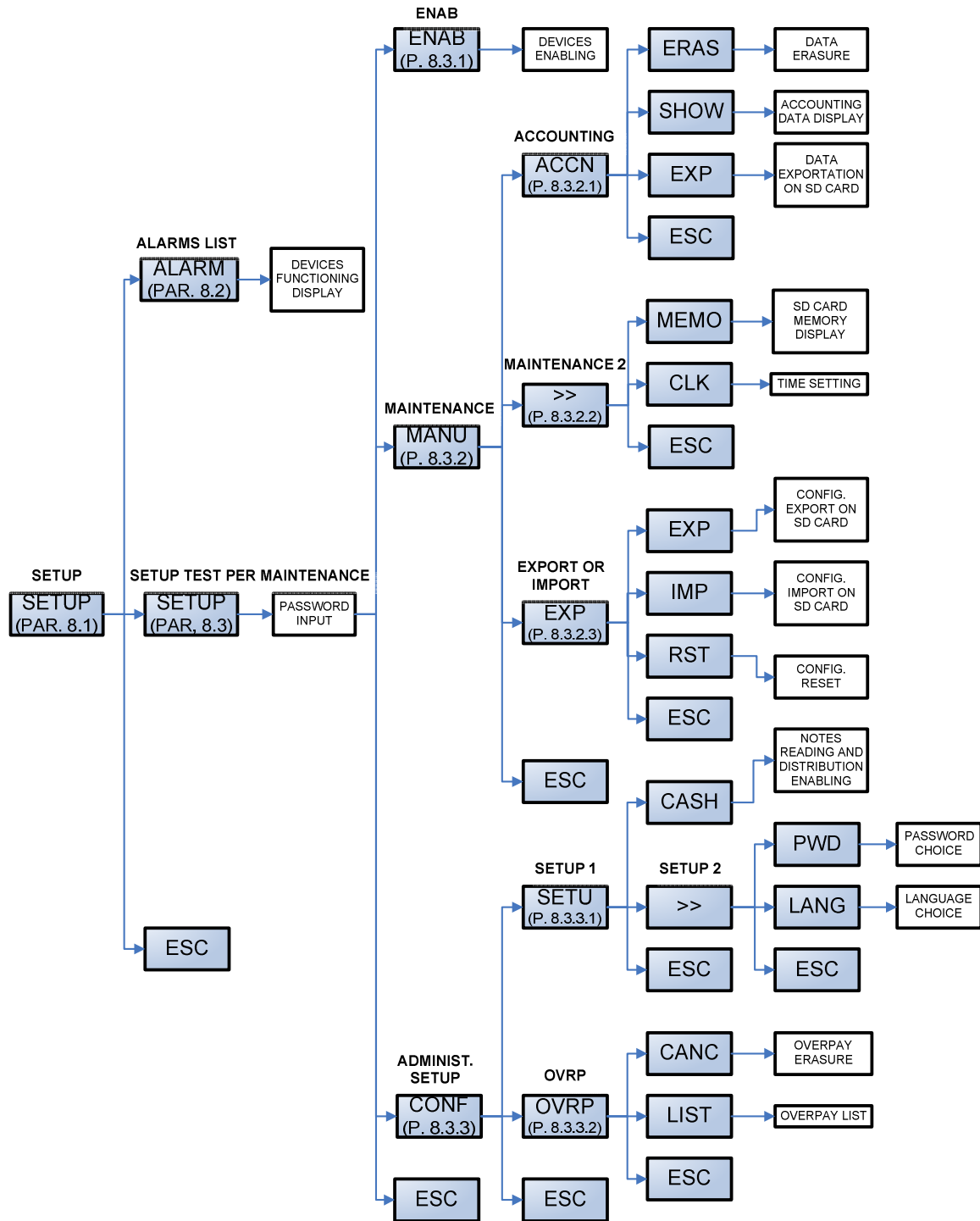
WARNING!

If you leave the key turned to the right every time you exit the configuration menu and every time you turn the machine on, it will ask you if you wish to load the default configuration. It is therefore advisable to put the key back in its starting position all the time (turn it all the way to the left, anti-clockwise).

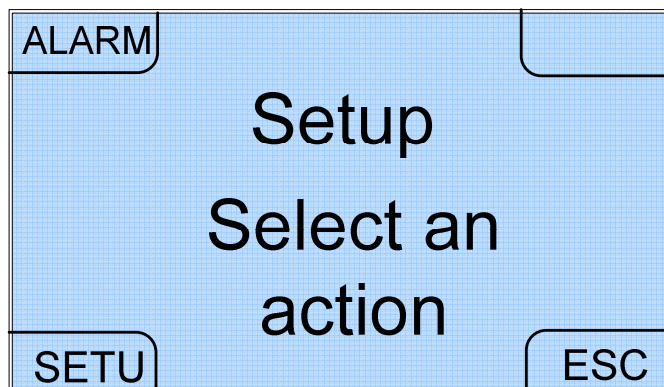
The architecture of the programming controls is illustrated in the next diagram.

The light blue boxes contain commands that can be selected using the four keys located in the corners of the display and, below in brackets, the paragraph that discusses them in this manual. Also, name of the menu that this command allows you to access is provided above each blue box. By selecting the available options you can go from one menu to the next, whereas by choosing ESC, which is available in each menu, you go back one step, with the exception of a few cases. The white boxes, on the other hand, indicate the operations that can be carried out by following the sequence of commands that precede them.

The diagram can therefore be read from left to right, to identify the hierarchical structure and the sequence of the commands, and from right to left, to choose the operation that needs to be carried out and identify the reverse order of the sequence of commands necessary to make it happen.



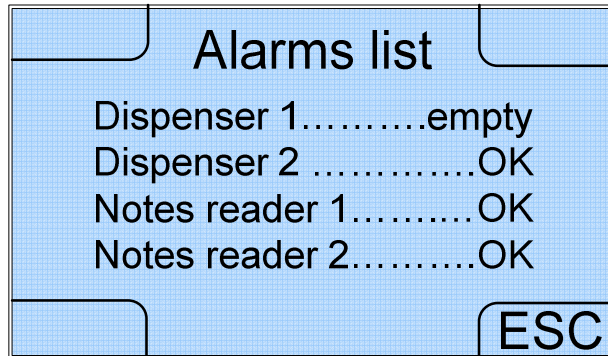
Once you have inserted the programming key into its lock and turned it to the right, the following initial screen will appear:



From the Setup menu it is possible to select the two main options ALARM and SETUP. The latter is only accessible with a password. The ESC option allows you to exit the programming area and go back to banknote dispensing.

8.2 Alarms list

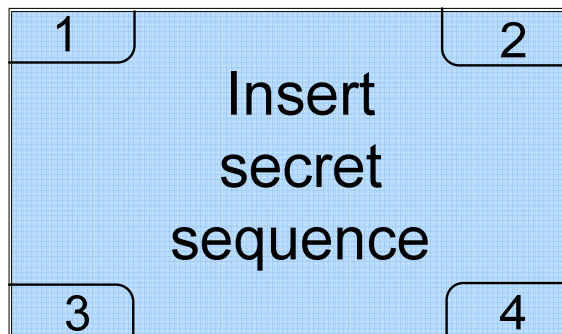
By selecting the ALARM option on the Setup Menu, the list of peripherals with relative state of operation will be displayed. It is thus possible to identify any problems that are stopping the machine from operating correctly.



By selecting ESC you go back to the Setup menu.

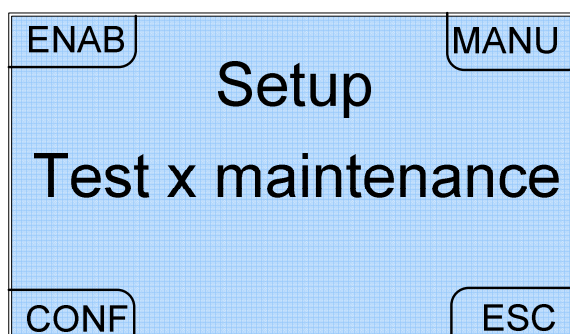
8.3 Setup Test x maintenance Menu

By selecting the SETUP option in the Setup menu, first of all you will be requested to provide the password.



When the machine is delivered the password is 111111 as entered by the manufacturer. The password can be changed by following SETUP→enter password→CONF→SETU→>>→PWD as described below in paragraph 8.3.3.1.

Once the password has been entered, which protects the machine from undesirable changes to the configuration, it is possible to enter the Setup Test x maintenance menu.

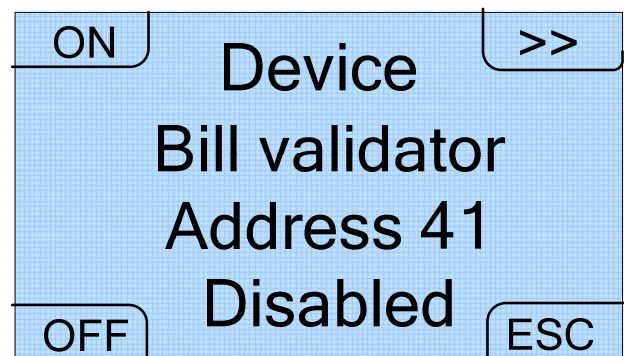
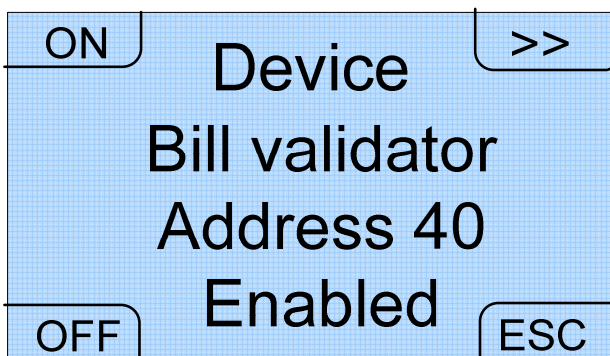
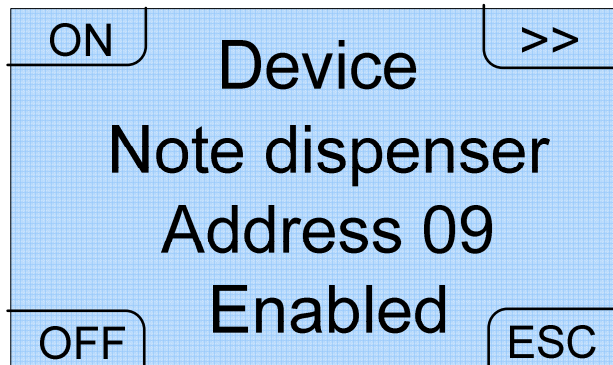


EN

From the Setup Test x maintenance menu it is then possible to go on to the 3 submenus to enable peripherals, maintenance and configuration for the machine. By selecting ESC you go back to the initial Setup menu.

8.3.1 ENAB option

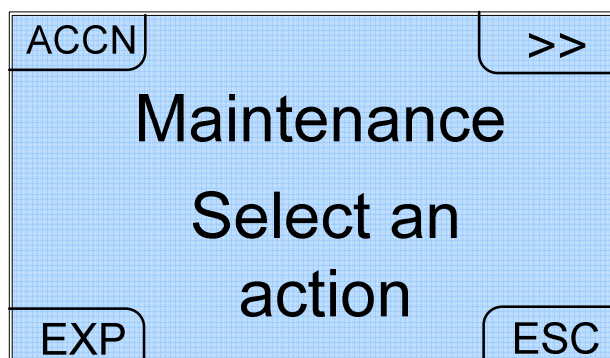
From the Setup menu using the ENAB option you enter a series of screens where you can enable or disable the operation of each of the two banknote readers and each of the two banknote dispensers. Attention, when the machine goes out from the factory s setted with second note dispenser off. And it will be enable, because optional, interacting as in the following.



The peripheral is enabled by selecting the option ON and disabled by selecting the option OFF. Using the >> key it is possible to go from one peripheral to the next. By selecting ESC you go back to the Setup Test x maintenance menu.

8.3.2 Maintenance Menu

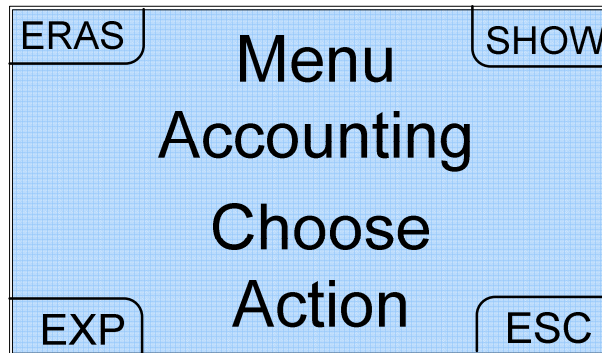
Using the MANU option from the Setup menu it is possible to enter the Maintenance menu.



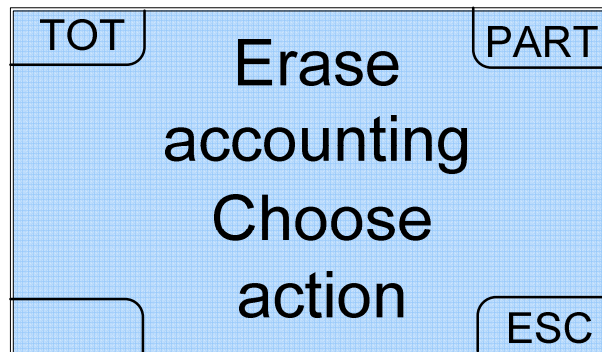
From the Maintenance menu it is possible to select the options ACCN, >>, EXP or go back to the Setup Test x maintenance menu using the ESC key.

8.3.2.1 Accounting Menu

The ACCN option allows you to enter the Accounting Menu to manage accounting data.

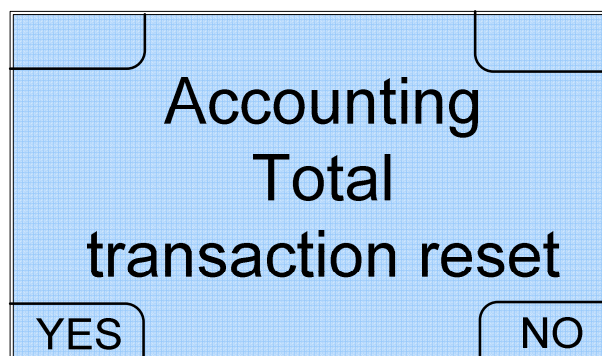


The three available options allow you to cancel, view or export the accounting data to the SD card. By selecting ESC you go back to the Maintenance menu. With the ERAS option you enter the Erase accounting menu where it is possible to reset the partial or total accounting to zero.

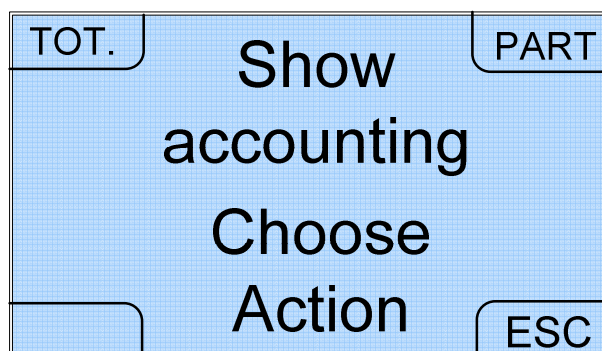


EN

If you decide to reset the total accounting to zero this screen will appear, for example



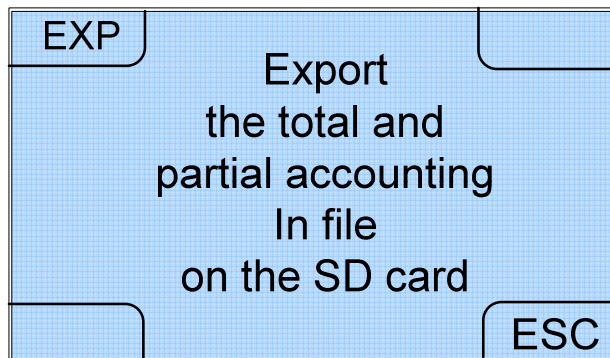
With the SHOW option you enter the Show accounting menu where it is possible to view the partial or total accounting.



If you decide to view the total accounting, for example, a screen will appear



By passing from one screen to the other with the >> key it is possible to view the amounts that have been inserted, dispensed, present in the cash box, credit that has not been dispensed. It is also possible to view amounts that have been inserted subdivided by denomination and the amounts dispensed subdivided by dispenser. Using the EXP key partial and total accounting can be exported to an SD card.



By selecting ESC you go back to the Accounting menu.

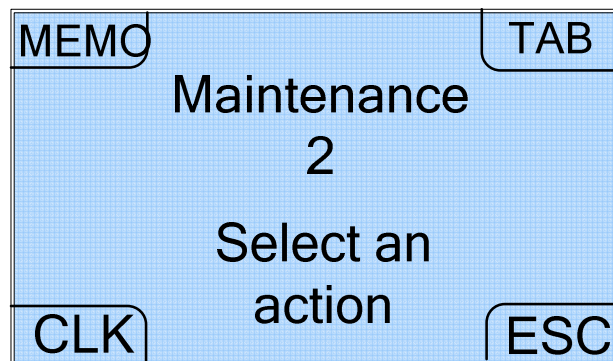
The partial or total accounting data can be collected inside the Account folder in a SN_serial number_day_month_year.csv file which appears as below

A screenshot of a Microsoft Excel spreadsheet titled 'Microsoft Excel - SN_00000'. The spreadsheet contains the following data:

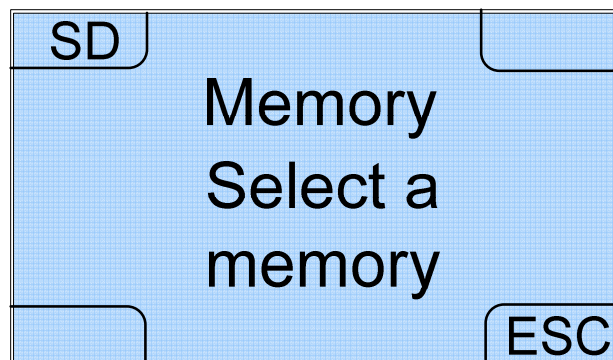
	A	B	C	D
1	DATE AND TIME			
2	19/03/2011 - 18:26			
3				
4				
5	TOTAL COUNTERS			
6	CASHENTRY			
7	0.00	Notes 5.00		
8	0.00	Notes 10.00		
9	40.00	Notes 20.00		
10	400.00	Notes 50.00		
11	0.00	Notes 100.00		
12	0.00	Notes 200.00		
13	0.00	Notes 500.00		
14	440.00	Total inserted		
15				
16				
17	CASH PAID			
18	380.00	Bills paid Disp. 1 (10.00)		
19	0.00	Bills paid Disp. 2 (50.00)		
20	30.00	Bills rejected Disp. 1		
21	0.00	Bills rejected Disp. 2		
22				
23				
24	BUDGET			
25	440.00	Money inserted		
26	380.00	Money out		
27	10.00	Money not paid		
28				
29				
30	PARTIAL COUNTERS			
31	CASHENTRY			
32	0.00	Notes 5.00		
33	0.00	Notes 10.00		
34	40.00	Notes 20.00		
35	400.00	Notes 50.00		
36	0.00	Notes 100.00		
37	0.00	Notes 200.00		
38	0.00	Notes 500.00		
39	440.00	Total inserted		
40				

8.3.2.2 Maintenance 2 Menu

By selecting option >> in the Maintenance menu you enter Maintenance 2 Menu.

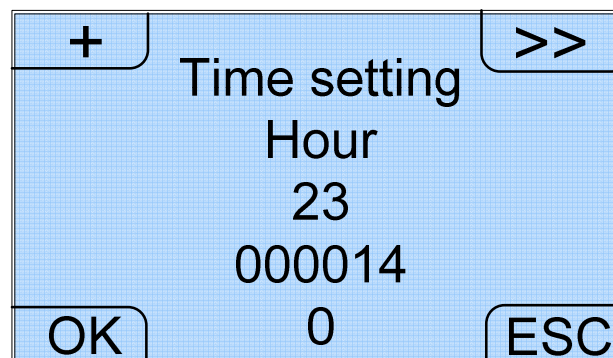


In this case the MEMO option allows you to access the Memory menu



EN

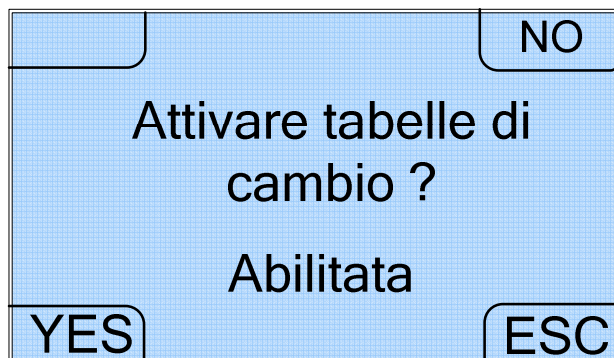
which can be used to find out how much space is available on the SD card. The CLK option allows you set the hour, minutes, day, month and year using a series of screens set up in sequence.



In each of the screens it is possible to view the limits set respectively for the hours (from 0 to 23), for the minutes (from 0 to 59), for the days (from 1 to 31), the months (from 1 to 12) and years (from 2008 to 2050). Use the >> key to identify the number you wish to work on, with the + key you can increase this number, and with OK you confirm your choice. If the set value does not fall within the displayed limits, an error message will appear on the screen, if on the other hand the value is within the displayed limits, it will be memorised and you will move on to the next screen. Only on the first screen, the one where you set the hour, by selecting ESC you can go back to Maintenance 2 menu. On all other screens, when you select ESC you will go back to the initial Setup menu.

The same can be done by selecting OK located on the final screen referring to the year.

TAB option allows you to enable fixed change table through the following screen:



Pressing YES will be loaded the configuration according the fixed and not edited change table, as you can see here below. Pressing NO, the machine will use the default change table.

8.3.2.2.1 Fixed and not editable change table

Enabling the change table, according to the procedure here above, you will proceed to the banknotes dispenser setting following the scheme here below:

NOTE DISPENSER	BANKNOTES DIMENSION DISPENSE
1	10 €
2	20 €

Based on these settings, change of notes, made by Break, will be made as in the following:

BANKNOTES INSERTED	BANKNOTES DISPENSE
20 €	number 2 banknotes for 10 €
50 €	number 2 banknotes for 20 € and 1 for 10 €
100 €	number 5 banknotes for 20 €
200 €	number 6 banknotes for 10 € and 7 for 20 €
500 €	number 20 banknotes for 10 € and 15 for 20 €

8.3.2.2.2 Default Configuration

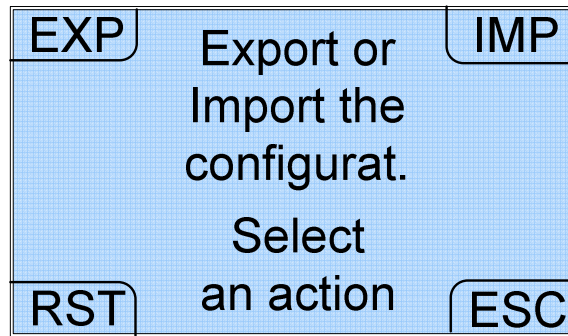
Default Break machine configuration it's the following.

Only one NV200 enabled, the second one is an option

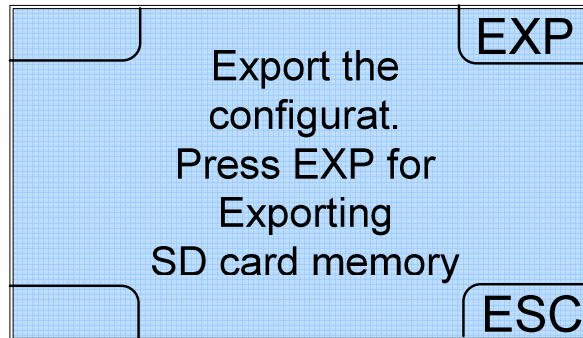
NOTE DISPENSER	BANKNOTES DIMENSION DISPENSE
1	10 €
2	20 €

8.3.2.3 Export or Import Menu

By selecting the EXP option on the Maintenance menu you enter the menu that allows you the export and import a configuration from one machine to another.

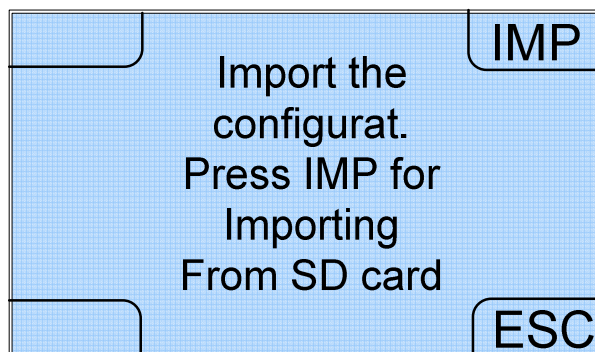


If you select EXP this screen will appear

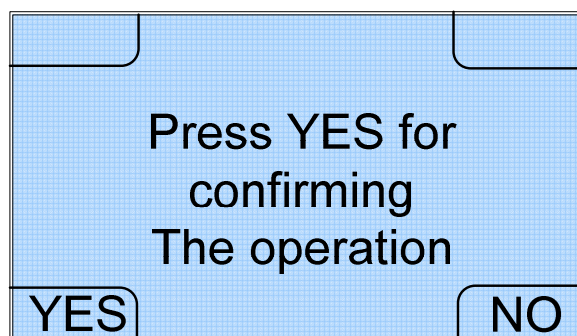


And the configuration data will be stored in the SD card inside the Configuration folder in the Configuration.csm file.

If you select IMP this screen will appear



In both cases you will be asked to confirm your choice.

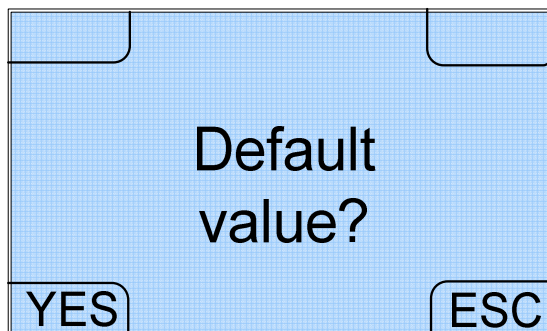


WARNING!

It is necessary to insert the SD card into the machine before turning it on, since if you insert it after the machine has been turned on it will not be recognised.

By selecting ESC in the export and import screens you will go back to the previous screen.

If, on the other hand, you select the RST option on the Export or Import the configuration screen, the machine will ask you if you want to go back to the default configuration.



If you press the YES button, the machine will ask for the password to reset the machine, which is different from the configuration password and must be provided by the manufacturer. If, on the other hand you press ESC, the machine will exit the programming area and go back to its normal operation as a banknote change machine.

8.3.3 Administration setup Menu

From the Setup Test x maintenance menu, using the CONF option, it is possible to enter the Administration setup menu.

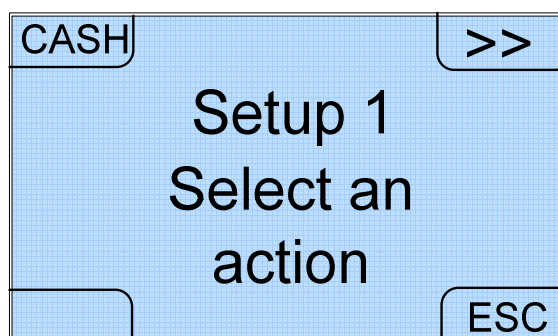


From the Administration setup menu it is possible to enter the Setup 1 menu or select the OVRP option.

By selecting the ESC option you go back to the Setup Test x maintenance menu.

8.3.3.1 Setup 1 Menu

By selecting the SETU option in the Administration setup menu you enter the Setup 1 menu, which allows you to select the CASH option or enter the Setup 2 menu.

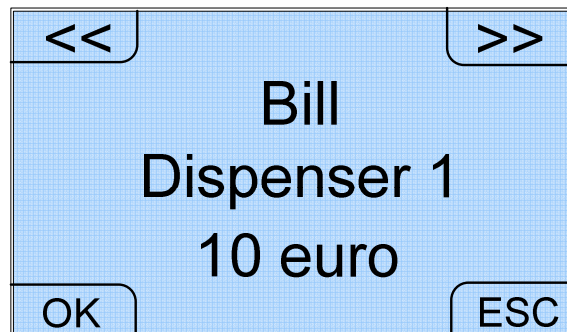


By selecting the ESC option you go back to the Administration setup menu. With the CASH option it is possible to identify the different denominations of the banknotes that will be accepted by the readers and set the types of banknotes that can be dispensed. Once you have selected the CASH option the following screen will be the first to appear.

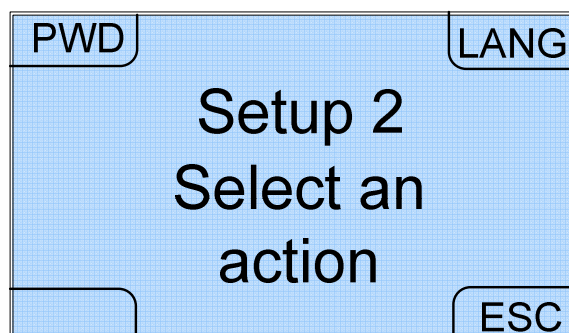


asking you if you wish to enable or disable the readers to accept banknotes of the indicated denominations. By pressing the ON and OFF keys you enable and disable the reader from accepting the displayed denomination, whereas the OK key confirms your choice and moves on to the next denomination. The readers can accept banknotes of 5, 10, 20, 50, 100, 200 and 500 Euro respectively. In reality, with this configuration the machine only accepts banknotes of higher denominations than those contained in the dispensers, therefore the 5 Euro denomination is automatically excluded, regardless of the settings for this option. Once the OK key has been pressed on the screen for 200 Euro denominations, the machine moves on to the first screen relative to the selection of banknotes that can be dispensed.

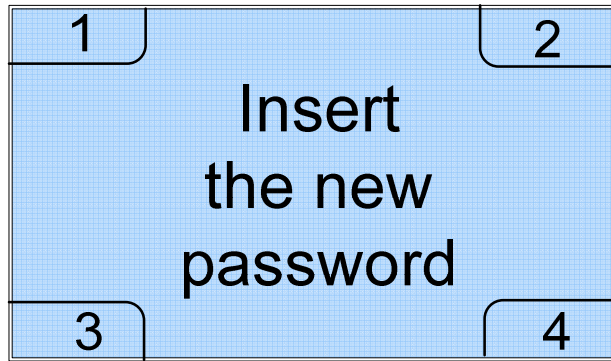
EN



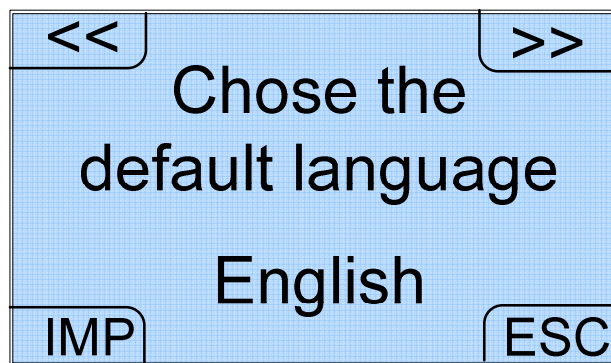
For each of the two drawers it is possible to choose a banknote denomination between 10, 20 and 50 Euro. To pass from one denomination to the next simply press the >> key, whereas in order to enable a denomination and move onto the configuration of the other drawer, simply press the OK key. Using the >> key on the Setup 1 menu you enter the Setup 2 menu, which allows you to select a new password or change the set language.



To change the password use the PWD option which allows you to enter this screen



To change the language use the LANG option which allows you to enter this screen



With the << and >> keys it is possible to scroll the screens relative to the languages available in the firmware, which are Italian, English, French and Spanish, whereas by pressing the ESC key the selected language will be set automatically for all of the operations thereafter.

By selecting the IMP option it is also possible to export and import the .Ing file onto the SD card, which contains the translation of the strings of text that appear on the display in the four languages available in the firmware.

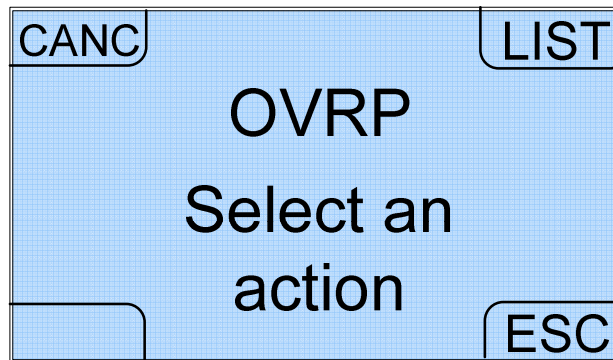


This function is useful in case the client needs to change any of the messages displayed on the screen during operation of the machine. In this case the client will need to export the .Ing file onto an SD card and send it to Comestero Client Assistance Service, specifying the changes they wish to make. The Client Assistance Service will then send the changed file back so that it can be loaded onto the SD card and imported to the machine in the same way.

By selecting ESC on the last screen you go back to the Setup 2 menu.

8.3.3.2 OVRP Option

By selecting the OVRP option in the Administration Setup menu you enter the programming part regarding overpay management.



By selecting the CANC option this screen will appear



EN

From here you can cancel all overpays.

By selecting the LIST option, on the other hand, it is possible to view the list of overpays and even delete them individually one at a time.

9. Bootloader and Firmware upgrade

This chapter explains how to upgrade the software on board (Bootloader and/or firmware) the banknote change machine Break.



It is not necessary to save the configuration or the accounting before making upgrades. The procedures to upgrade the Bootloader and/or Firmware will keep unchanged both the configuration and the accounting of the machine.



Since the upgrade of the Bootloader is a delicate operation, the upgrade files will be provided only upon specific request by the customer. Call the Comestergroup after-sales service at the following telephone number : (+39) 0295781111 to get a copy of the file.

From now on, we will suppose that the customer is already own of the Bootloader updgrade files and is thus able to complete the upgrade operation in complete autonomy.

Break is designed to avoid any kind problems during the upgrade. The machine is able to perform the operation in a fast and very easy way both for the Bootloader and the Firmware.

Make sure to have at your disposal one or more of the following three alternatives before making the upgrade operation:

- One SD Card to make the upgrade of the Bootloader and/or the firmware (you can use the card already available on board the change machine).



The SD Cards available in commerce with same capacity have all the features and performances different from each other and sometimes even contrasting with the declared characteristics. Therefore, to preserve the functionality and the performances of the machine Break, when it necessary, use only the SD Card approved and supplied as a spare part by Comestergroup.

- One built-in or externally card reader connected to the PC.
- Bootloader and/or firmware upgrade files.
- For more information about the banknote change machine Break, please refer to the [support page](http://www.comestergroup.com/cms/ENG/product/281-break.html) dedicated: <http://www.comestergroup.com/cms/ENG/product/281-break.html>



We recommend that you always upgrade the Bootloader and/or the Firmware of your machine to the latest version in order to achieve maximum benefit from the latest upgrades and features.

9.1 How to upgrade Bootloader



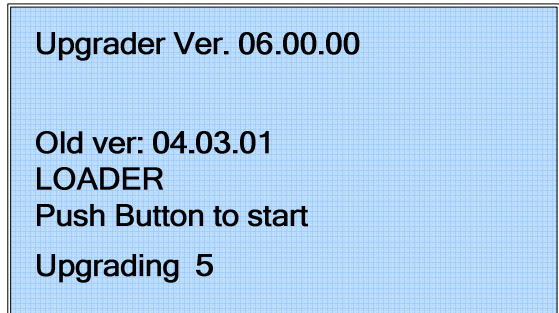
The Bootloader's upgrade operation will always involve the removal of any information regarding the machine's firmware. At the end of the installation process will always be necessary to proceed with restoring the firmware version previously installed on Break, as described later in this section.

To fully upgrade the machine's Bootloader, you must perform the steps described in the following 16 easy steps.

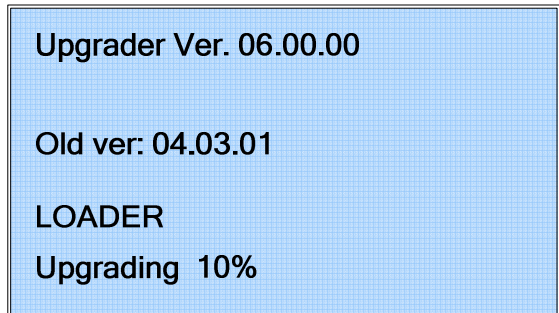
- a) Remove the SD card from the SD card slot (if you don't have the card provide with the machine, you can request a new one contacting the Comestergroup after-sales service), and then insert it into your PC.
- b) Only if you are using the SD Card onboard the machine, please before copying the Bootloader's upgrade file, you must save all your data in any folder on your PC.
- c) Format the SD card only in "FAT" mode. Other modes are not valid.
- d) Copy the 2 files you can find in the Bootloader upgrade file (without rename files and without creating any folders inside) into the SD Card.

- e) Turn off the banknote change machine Break and make sure that the main switch of the unit is in the OFF position.
- f) When the change machine has turned OFF, insert the SD card containing the Bootloader upgrades inside the machine CPU's slot. Always observe the orientation of the card (the side with manufacturer's label facing up) and make sure to have it properly pushed towards bottom.
- g) Turn on the machine.
- h) When the machine is turning ON, it will display a screen similar to the one shown in the first Figure below. On this screen, you can always check the Bootloader version (first line under the heading "Upgrader Ver 06:00:00") installed on board the change machine.

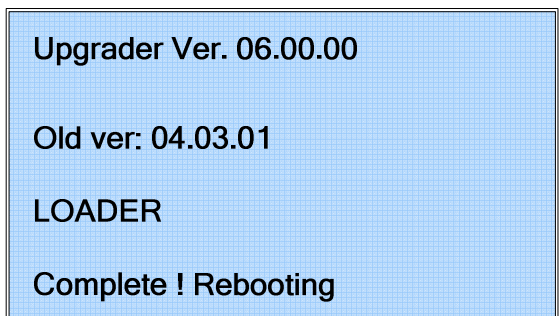
- i) Press one of the 4 external blue button within 5 seconds to start upgrading.



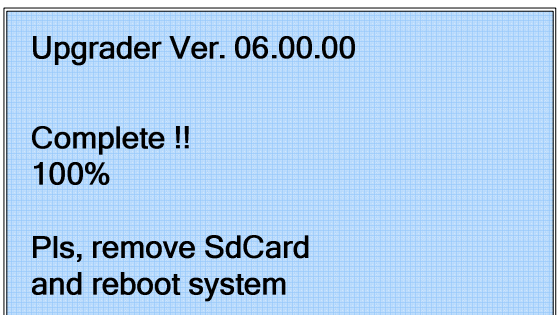
- j) The upgrade will start and a screen, very similar to the one shown in Figure here on the right, will be displayed. In this way you can always check the percentage of completion of the upgrade (indicated by a progressive counter).



- k) When the upgrade is complete, the change machine will show on screen the message : "Complete! Rebooting, as shown in the Figure here on the right.
- l) The machine will reboot. Wait for the complete reboot until you will see on display the screen shown in the Figure at point m) below.



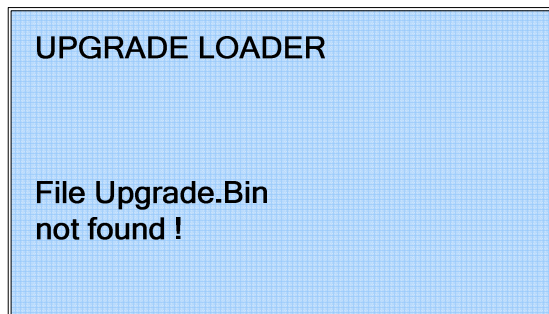
- m) At the end of the upgrade, if all has been successfully completed, the change machine will show on video the message "Complete !! 100% Pls, remove SD Card and reboot sistem ", as shown in the Figure here on the right.



- n) Turn off the machine and make sure that the main switch of the unit is in the OFF position.
- o) Remove the SD card containing the bootloader upgrade from the slot and proceed with the firmware upgrade as described in the next section called "How to Upgrade Firmware".

- p) If you failure to restore firmware of the machine after you upgrade the Bootloader, on the display you will see a message very similar to the one shown in the Figure here on the right.

In this case, turn off the machine and insert the SD card containing the firmware of the banknote change machine Break and proceed with the firmware upgrade as described in the next section.



9.2 How to upgrade Firmware

To fully upgrade the machine's Firmware, you must perform the steps described in the following 17 easy steps.

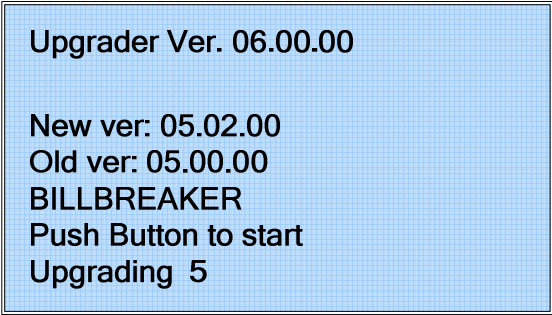
- a) Remove the SD card from the SD card slot (if you don't have the card provide with the machine, you can request a new one contacting the Comesterogroup after-sales service), and then insert it into your PC.
- b) Only if you are using the SD Card onboard the machine, please before copying the Firmware upgrade file, you must save all your data in any folder on your PC.
- c) Format the SD card only in "FAT" mode. Other modes are not valid.
- d) To download the necessary files you need to upgrade your machine's Firmware, go to <http://www.comesterogroup.com/cms/ENG/product/281-break.html> and click on the Support tab.



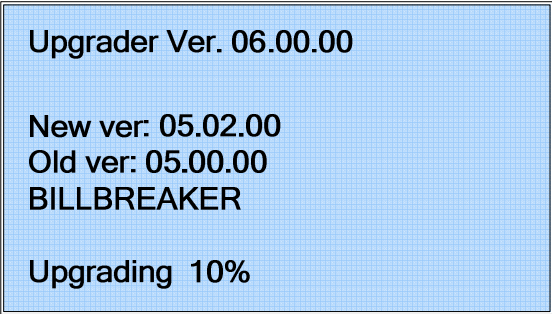
In the event you have no internet access, you can request the necessary files contacting the Comesterogroup after-sales service at the following telephone number: (+39) 02 95781111.

- e) Unzip the file you have just downloaded (or received by the Comesterogroup after-sales service) in any folder on your PC. Once unzipped you will find one file called : "ChangerMachine.bin".
- f) Copy ChangerMachine.bin file (without rename files and without creating any folders inside) into the SD Card.
- g) Turn off the banknote change machine Break and make sure that the main switch of the unit is in the OFF position.
- h) Insert again the SD Card into its slot onboard the machine's CPU. Always observe its orientation (the side with manufacturer's label facing up), and make sure to have it properly pushed towards the bottom.
- i) Turn ON the machine.

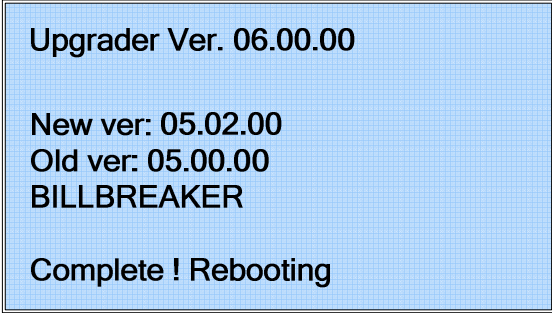
j) Once you have turned ON the machine, it will display a screen very similar to the one shown in Figure here on the right.



k) Push one of the 4 external blue button within 5 seconds to start upgrading. When the upgrading is started, you will see a screen very similar to the one shown in Figure here on the right. In this screen you can see the percentage of completion of the upgrading (its progress is indicated by a percentage of completion (%) from 0% to 100%.



l) At the end of upgrading, the change machine will show on the screen the message "Complete! Rebooting", as shown in the Figure here on the right.



m) Wait for the complete restart until, on the machine's display, is shown the screen you can see in the Figure at point n) below.

n) At the end of upgrading, If there are no error, the banknote change machine Break will restart automatically. When complete the screen will display the usual home screen, as shown in Figure here on the right.



o) Turn OFF the machine, making sure that the machine's main switch is in the OFF position.

p) Remove the SD card and insert it into an SD card reader connected to a computer. Delete the file "ChangerMachine.bin" and re-insert the SD card into the machine.



You must delete the "ChangerMachine.bin" file from SD Card after you upgrade the machine's Firmware, to avoid that, every time you turn on the machine, it automatically starts the Firmware upgrading.

Never delete the files inside the SD Card, except for the .bin file mentioned above. In this way you will preserve all previously accounting, etc ...data saved on the card.



In the event you need help or for any other problems you are encountering is not described in this section, please contact our after-sales service at the telephone number : (+39) 02 95781111. Alternatively, you can consult our online support service at <http://www.comestergroup.com/cms/ENG/online-support.html>

- q) Insert the SD card into the change machine and turn on Break without pressing any key.

10. Care and maintenance



All maintenance inside the machine must be carried out when the power supply has been switched off.



Follow the warnings carefully so that the machine is always in the best operating conditions, preventing dangerous situations or situations which would render the warranty null and void.

10.1 Maintenance and cleaning of external surfaces

Keep the exterior surface of the machine clean; use a damp cloth with water or a mild cleaning solution.

Do not use aggressive chemical solvents that may damage the finishing of the machine. Do not dip or expose the machine directly to water or liquids of any nature. **Do not clean the machine with jets of water.** Periodically check the surface of the machine, taking particular care to the areas that could be dangerous for the user due to normal operating conditions or wilful damage (sharp or bent metal sheets, rust, etc.) For information on how to order replacement parts, refer to the “Spare Parts” section.

10.2 Maintenance and cleaning of the interior

Clean the machine interior with a damp cloth; use only compressed air to clean the electronic components.

Regularly inspect the connections of all cables and verify that the connection cables of the devices have integral insulation and are not excessively bent. If the cables or their connectors are damaged, replace them immediately consulting manual “Spare Parts” for information on the correct codes.

10.3 Periods of inactivity

We recommend turning the machine off by means of the main power switch located inside the case for short periods of inactivity when the machine will not be used for two or three days. If the machine will not be used for a long period of time, it is advisable to disconnect it from the power supply and detach the plug from the wall socket. To protect the machine from dust, cover it and store in a dry and ventilated location.

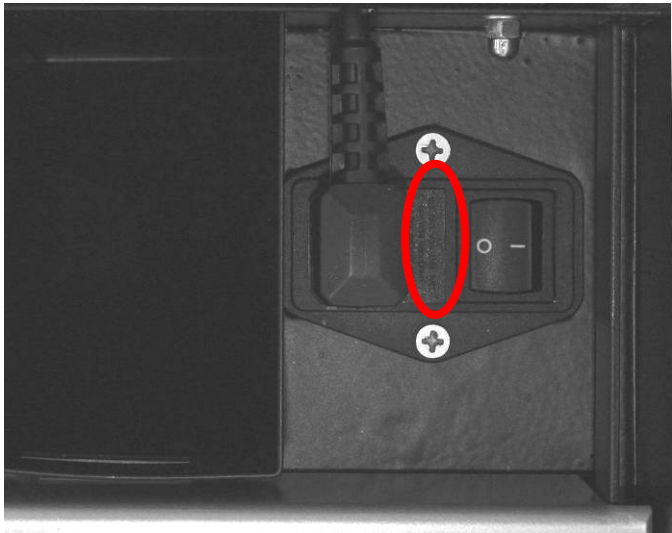
11. Troubleshooting and technical support

This section presents the principal faults that may occur during operation and the corresponding possible solutions in order to eliminate or reduce machine shutdowns to a minimum.



If the fault is not among those listed below or if it is there but the suggested solution does not solve the issue, call our after-sale service at the following number: +39 02 95781111

EN

Problem	Solution
<p>The machine will not switch on.</p>	<p>Check that the cable is plugged in.</p>
	<p>Check that the main switch is in the “I” position.</p>
	<p>Make sure that the 2 protection fuses, located under the plastic door next to the main switch for the machine, have not blown.</p>
	
	<p>Make sure that the fuse, located under the power supply unit in the top compartment of the machine, has not blown.</p>
<p>The machine will not dispense notes (in this case the light on the signal tower is yellow).</p>	<p>Make sure that the dispensers are full and connected to the machine correctly.</p>
<p>The machine accepts banknotes but does not credit them.</p>	<p>Check that the denomination of the inserted banknote has been configured in the banknote denominations table.</p>
<p>The reader does not accept all banknotes.</p>	<p>Disconnect the banknote reader by pressing on the silver-coloured tab.</p>



and making it scroll forward.



Once the reader has come detached, push the metal plate located on the top part of the device forward to access the leds.



With a cloth dampened with water only or possibly water and very diluted detergent clean the top part and the bottom part of the led sensors (the two plastic surfaces). If necessary also clean the rollers using the same method.



Make sure that the reader is closed.

The machine does not dispense banknotes even though it is full.

Check that the banknotes are positioned correctly in the drawers.



Make sure that the drawers are inserted in their seats correctly.

Cut off the power, open the bottom door of the machine.



Unscrew the pins that are locking the base.



pull the entire dispenser-drawers-base structure forwards using the handle.



Detach the metal pin from the plastic housing and open the plastic cover on the dispenser.



make sure that there are no bills or banknotes jammed in the dispenser or dispensing channel.

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12. Technical specifications

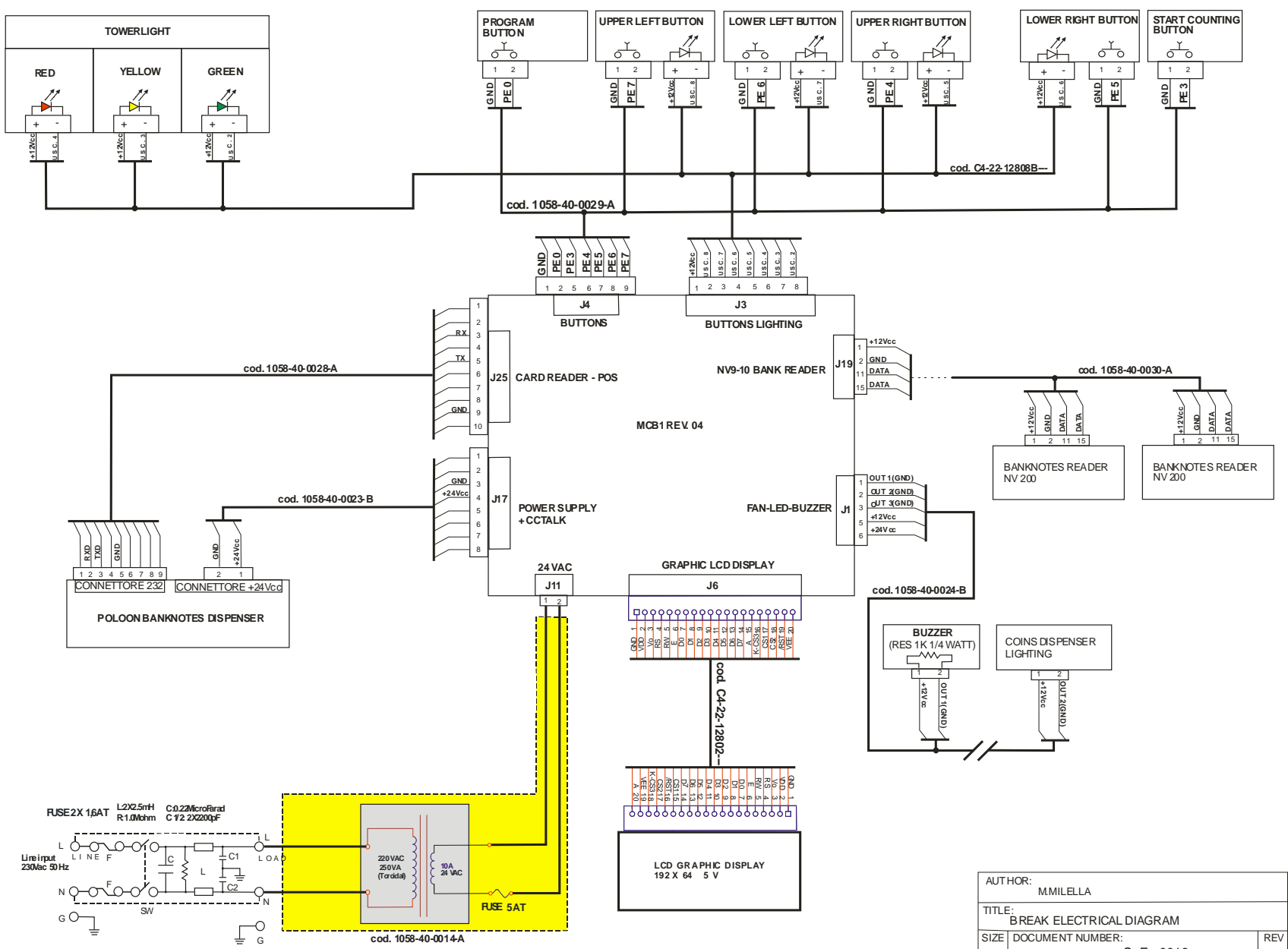
Dimensions (l x h x w) [mm] :	340 x 1.515 x 497
Weight [Kg] :	105 (approx.)
Power supply [V / Hz] :	230 / 50
Absorbed current [A] :	1
Banknotes that may be dispensed [Euro] :	20/10/5/50
Banknote or bill capacity	1000 (x2)

Installed peripherals

Banknote reader	Innovative Technology NV200 (x1 standard, x2 optional)
Banknote dispenser	Puloon Technology LCDM2000 (x1) other models available upon request

13. Appendices

13.1 Electrical diagram



AUTHOR:		M.MILELLA
TITLE:		BREAK ELECTRICAL DIAGRAM
SIZE	DOCUMENT NUMBER:	REV
A4	CODICE: S. E. 0013	A
DATE:	15/06/2012	1 of 1

13.2 Decommissioning and disposal

At the end of its life cycle, the machine must be removed from service and disposed of through an authorised collection centre.

Remove the machine from its installation place, empty all coins and remove the power cable.

Contact Comesterogroup to arrange for collection of the decommissioned machine. Call +39 02 95781111.

It is mandatory to dispose of the machine pursuant to Legislative Decree 25/07/2005 no. 151.



Please read the following sections carefully.

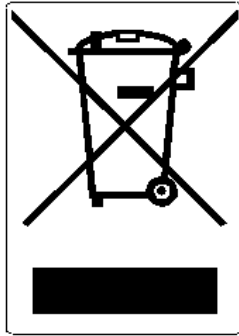
Since December 31, 2006, precise criteria have been established with regard to the Disposal of Waste Electronic and Electrical Equipment (WEEE), with the purpose of protecting the environment.

This machine falls within the field of application of Legislative Decree 151/2005, Attachment 1B, clause 2, paragraph 1 as:

10.2 Automatic dispenser of cash or products

In summary:

- This machine cannot be disposed of as urban waste, but must be collected separately through a special collection facility.
- Dealers will collect used machines for free, then they will send them to specialised collection centres so that they can be correctly disassembled and any reusable material can be recycled.
- Special centres have been set up for collection of used electric and electronic equipment (RAEE). Users can return used machines to their dealers when a new, equivalent machine is purchased.
- These machines or their parts are potentially harmful for the environment and human health if used incorrectly or if not disposed of pursuant to the present procedure, due to some substances being present in the electronic components.
- The symbol representing a crossed-out trash bin, well visible on these machines, means without doubts that the machine has entered the market after August 13, 2005 and that it must be collected separately.



Sanctions applicable in case of unlawful disposal of this kind of waste :

1. Retailers, as specified in Article 6, paragraph 1, letter b), who fail to collect used electric or electronic equipment free of charge or without reason, shall be penalised with an administrative sanction ranging from 150 to 400 Euro for each machine that has not been collected or has been collected upon payment of a fee.
2. Manufacturers who fail to organise a separate waste collection system for professional used electric and electronic equipment, as stated in Article 6, paragraph 3, and fail to implement collection, delivery, treatment and recovery procedures for used electric and electronic equipment, as per Articles 8, paragraphs 1 and 9, paragraph 1, 11 - paragraphs 1 and 12 - paragraphs 1, 2 and 3, and, except for the latter operations, fail to sign agreements in accordance with Article 12, paragraph 6, are penalised with an economic administrative sanction ranging from 30,000 to 100,000 Euro.
3. Manufacturers who after August 13th 2005 fail to provide a financial guarantee at the time of introduction of an electric or electronic equipment in the market, in compliance with Article 11, paragraph 2, or 12 - paragraph 4, are penalised with an economic sanction ranging from 200 to 1,000 Euro for each machine introduced in the market.
4. Manufacturers who fail to provide in the instructions for use of electric or electronic equipment the information specified in Article 13 - paragraph 1, are penalised with an economic administrative sanction ranging from 200 to 5,000 Euro.
5. A manufacturer that, within one year from the launch on the market of any new WEE, does not provide the instructions pursuant to article 13- section 3 to re-use centres and treatment and recycling plants will incur a monetary sanction of Euro 5,000 to Euro 30,000.
6. Manufacturers who, after August 13th 2005, introduce electric or electronic equipment without the indication or symbol specified in Article 13, paragraphs 4 and 5 on the market, shall be penalised with an economic administrative sanction ranging from 200 to 1,000 Euro for each item of equipment introduced in the market. The same economic administrative sanction shall also apply if the indications and symbols are not compliant with the requirements stated in Article 13, paragraphs 4 and 5.
7. Manufacturers who are not registered with the Chamber of Commerce, in compliance with Article 14, paragraph 2, and who introduce in the market electric and electronic equipment, are penalised with an economic administrative sanction ranging from 30,000 to 100,000 Euro.
8. Manufacturers who, within the term specified in Article 13, paragraph 8, fail to communicate the information specified in Article 13, paragraphs 4, 3 and 5 to the national register of the entities obliged to dispose of electric and electronic equipment.
9. With the exceptions set out by article 5 section 2, everyone that after July 1, 2006 launches on the market WEE containing substances listed in article 5, section 1 or further substances identified pursuant to article 18, section 1, will incur a monetary

sanction of Euro 50 to Euro 500 for each device that enters the market or of Euro 30,000 to Euro 100,000.