

Autocoin Plus

Change machine

EN



Operating Manual

GUIDE TO THE SYMBOLS IN THE MANUAL

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



Important information



Read carefully before use



Warning!

DECLARATION OF CONFORMITY

THE MANUFACTURER: SUZOHAPP
Antonie Van Leeuwenhoekstraat 9
3261 Oud-Beijerland LT NL

DECLARES That the product

TYPE: Coin change machine
TRADEMARK: Comestero
MODEL: Autocoin Plus

Complies with that foreseen by the following EU directives, including the latest amendments, and with relative national legislation of transposition:

2004/108/EC
2006/95/EC

And that the following harmonised standards were applied:

EN 55014-1
EN 55014-2
EN61000-3-2
EN61000-3-3
EN62233
EN 60335-2-82 used in conjunction with
EN 60335-1

SAFETY INFORMATION



These devices must not be bypassed, removed or disabled for any reason.

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



The safety devices have been constructed in compliance with existing regulations.

We recommend the operator to periodically check their correct operation.

Risks arising from the use of the machine

The machine is exclusively for outdoor use.

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 loading the dispensers and turning ON the machine after maintenance must take into account that: all moving parts, doors and cash boxes can cause injuries of varying severity, if operated inappropriately; it is a good practice to switch OFF the power supply for any operation carried out when the machine is open (maintenance, etc...). The machine must not be used by persons (including children) which reduced physical, sensorial or mental capacities, or lacking experience or knowledge, unless they are monitored by a person responsible for their safety or they have received instructions on how to operate the machine. Children must be monitored to ensure they are not playing with the machine.



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



Crushing hazards due to moving parts in the machine.
The machine must be opened and closed slowly and carefully.

Hazards arising from the installation and setup of the machine

Follow the machine installation instructions below (see Chapter 5 below) so that risks for people and property are minimal.



Crushing hazards during handling and positioning of the machine.
Transport of the machine must be carried out by a **technician qualified** for moving loads (forklift operator, etc...)

Caution:

- Use suitable lifting machines and harnesses
- Carry out operations in an area free from obstacles and people
- Before lifting, always ensure the load is stable and carry out all movements carefully, avoiding any oscillation



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

Caution:

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

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Hazards arising from the maintenance of the machine



Electrical hazards: Direct contact with live parts within the electrical cabinet.
Operations carried out by a **qualified technician**.

Caution:

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

Signage

The machine is equipped with warning signages located near dangerous areas, showing conventional hazard signs with symbols and/or written messages.



GENERAL HAZARD



ELECTRICAL SHOCK HAZARD



GROUND

GENERAL WARRANTY

Please read the following carefully to understand the general warranty conditions for this product.

ART. 1 - Scope of application

These general terms and conditions shall apply to all the goods and services provided by our company. Placed orders shall imply the full and unconditional acceptance of these general terms and conditions of sale. The contract of sale shall be considered perfected when the Purchaser receives the order confirmation from the Seller.

ART. 2 - Electromagnetic compatibility and safety

Our company certifies that the supplied goods comply with the standards concerning electromagnetic compatibility and safety; mandatory declarations are indicated in detail in the plates and labels affixed on the products and in the technical documentation attached or available at our premises. The recipients of the supply undertake to use or market the supplied goods, ensuring the integrity, completeness and usability of such information.

ART. 3 – Warranty

Except in cases where the mandatory provisions in Leg. Decree No. 206/2005 (“Consumer Code”) or in other relevant laws are to be applied, the goods and services are supplied under warranty by our company for a period of 12 months. This period starts from the date of purchase of the product. The warranty is exclusively limited to the normal operation of the goods supplied and to the result of the service provided. The warranty exclusively involves the repairs or replacement of the goods. Restoration of the goods to their normal operative state shall be carried out in our factory. Although not provided for here, Art. 1512 CC is also applicable in terms of revocation and limitation.

Our company shall not be liable in any way for operation of goods supplied in environmental conditions or technical conditions other than those established by our specifications, usually set out in the technical documentation. Any liability for direct or indirect damage not deriving from a malfunction is expressly excluded.

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:

1. lack of or improper maintenance, even if carried out by qualified personnel;
2. repairs or alterations made by the purchaser on his unilateral initiative;

3. inadequate or irregular voltage in the power lines, insufficient flow rate and abnormal electrical systems;
4. corrosive action of detergents;
5. poor or non-functioning software or hardware or loss of data recorded by the purchaser as a result of storms, lightning, high temperature or voltage variations of the electric current, earthquakes, fire, etc...;
6. with reference to all the electrical components and mechanical plastic moving parts subject to normal wear, which must be replaced during routine maintenance;
7. where the products have been used in conjunction with or incorporated into equipment or materials whose specifications have not been approved in writing by the selling company;
8. tampering with the label showing the serial number of the machine;
9. fault or breakage due to transport, acts of vandalism, natural calamities or wilful damage;
10. wrong or bad installation of the product;
11. carelessness, negligence or lack of skill in using the product;
12. failure to comply with the operating instructions in the technical manual;
13. interventions for alleged defects or casual checks;
14. repairs carried out without our authorization.

Malfunctioning of the machine due to the software not being upgraded is not considered a defect. SUZOHAPP is not obliged in any way to upgrade the software free of charge or upgrade the mechanical components which may be necessary due to new coins or banknotes being introduced by the Italian and European authorities, when repairing a product that is covered by the warranty. However, such upgrades could still be requested from SUZOHAPP and the company is obliged to send a quotation to the customer prior to intervention.

Any repair or tampering carried out on the supplied goods by subjects who are not authorized by us will render the warranty null and void.

We declare to have carefully considered, to the best of our knowledge and manufacturing practices, the issue related to preventing the goods supplied from being violated by persons who intentionally intend to alter their operation. However, we shall not assume any liability for illegal conduct or damage that may result from fraudulent use of the goods supplied. All required repairs not covered by the warranty must be paid for and the SUZOHAPP price list shall apply whose updates are regularly communicated.

ART. 4 – Limitation of Liability

Notwithstanding the hypotheses in art. 1229 of the Italian Civil Code and notwithstanding the mandatory provisions of law, for every damage caused directly or indirectly by failures or delays of the Seller or by the purchased products to objects or persons, including but not limited to lost profits and damage to the corporate image, the compensation payable by the Seller shall not exceed, in any case, 10% of the amount paid by the Purchaser for the product that caused the damage.

ART. 5 – Delivery

The goods subject of the supply are considered delivered at the time and in the place they are passed on to the carrier; therefore, our company shall not be held liable for total or partial shortages, damage or delays related to transport. Upon delivery, the recipient must duly note any errors or damage on the bill of lading. The Purchaser's refusal to accept or collect all or part of the ordered goods does not suspend obligation to pay. The terms of delivery indicated in the order confirmation allow for a grace period of 60 days. Upon delivery, the Purchaser must carry out a complete technical verification of the quality and functionality of the product within eight days. If not, the product shall be considered accepted without reservations or objections by the Purchaser.

ART. 6 - Retention of Title

The supplied goods shall remain the property of our company until full payment of the price has been made. In the event of termination of the contract for non-payment, the Seller is entitled to claim the unpaid items held by the Purchaser, which must be returned at the Purchaser's expense. All sums already paid will be retained by the seller as compensation and penalty.

ART. 7 – Terms of payment

Invoices must be paid in accordance with the agreements and within the deadline specified on the invoice. Any delay in payment will automatically result, without the need of formal notice, the application of interest at the rate stipulated in Legislative Decree no. 231 of 9.10.2002, unless agreed otherwise. If the purchaser delays, each benefit in the terms and conditions that may have been granted shall be deemed null and void and the seller may demand immediate payment of all outstanding amounts as well as of additional orders on receipt of the goods.

ART. 8 – Returns

Return of faulty goods or of goods requiring our assistance must be expressly authorised by us. Therefore, we reserve the right to reject the return or ask you to return the good to another destination other than our headquarters. We shall be liable for the goods only when it will be delivered to the indicated address.

ART. 9 - Applicable law and court of jurisdiction

The supplies regulated by these general terms and conditions are governed by Italian law. Any dispute shall be resolved by the Court of Milan.

Dear Customer,

Thank you for buying one of our products.

If you carefully follow the indications included in this manual, we are sure you will appreciate our quality over time with full satisfaction.

We kindly ask you to carefully read the instructions of this manual about the correct use of our product in accordance with the basic safety provisions.

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1. Introduction

This manual and its annexes provide all information needed to install and operate the product and all its parts, as well as some technical information for correct maintenance. The information contained in this manual can be modified without prior notice and does not constitute a commitment on behalf of SUZOHAPP. The information in this manual has been collected and verified with utmost care; however SUZOHAPP has no liability arising from using this manual. Unless otherwise stated, any reference to companies, names, dates, and addresses is purely coincidental and has the sole purpose to illustrate the use of the product. The reproduction of any part of this manual without prior authorisation by SUZOHAPP is prohibited. When you want to learn more about how to use the product or you are unsure how your device should function, you can see the support pages of your product at eu.suzohapp.com

2. Warnings



Read this manual carefully before installation. Knowledge of the information and instructions of this manual is fundamental to use the product correctly. Check upon receipt that the package and the product have not been damaged during transport. Take care with the electrical connections. Faults due to failure to follow the warnings of this publication are not covered by warranty. Significant situations that need to be followed strictly are signalled by specific symbols in this manual.

3. Product presentation

3.1 General description

The Autocoin Plus change machine has been designed to offer to the market a reliable and strong instrument even under the most critical weather and environment conditions. Completely realised in AISI 304 stainless steel, Autocoin Plus has design features that give it an IP 54 protection rating. To protect from weathering the most exposed parts, like payment systems and coin dispenser, strong polycarbonate doors have been studied and realized. Moreover an anti-moisture automatic system is present to prevent moisture attacks on the Autocoin Plus electronics boards and internal parts. So that the change machine has a longer life. The rear opening with the strong safety lock protects the taking into the machine from break-in attempts.

3.2 Characteristics of the equipment

The Autocoin Plus change machine has been designed to dispense coins or tokens with a pre-assigned value for an amount equal to the amount introduced by the customer using notes or coins (if so arranged).



Any improper use of the machine, other than the use described above, will make the warranty lapse with no responsibility whatsoever of SUZOHAPP.

4. Handling and unpacking

4.1 Delivery of the packaged product

Check upon receiving your product and make sure it has not been damaged during transport. Should any damage be noticed of whatever nature, contact the delivery company and immediately file a complaint.

After transport, the package must be intact, i.e., it must *NOT* show:

- dents, signs of knocks, deformation or rupture of the packaging
- areas that are wet or signs which indicate that the package has been exposed to rain, frost or heat
- signs of tampering

Also, check that the content of the package matches to your order.

4.2 Handling



To prevent any damages to the machine, we recommend moving it only within its original package, using adequate handling machines. Follow carefully the handling instructions printed on the box.

We recommend:

- **not** to drag the machine
- **not** to turn over or lay down the package during transportation and handling
- **not** to bump the machine
- **not** to leave the machine (even if still in the package) exposed to atmospheric agents

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4.3 Unpacking

After being tested and tooled, the machine is delivered inside a corrugated cardboard packaging, which protects it during transport and handling.

To facilitate loading/unloading the product, also by means of earth moving machines (transpallets), the box sits on an appropriate wooden pallet (up to two machine units per pallet).



Follow the instructions printed on the box when unpacking. Both the carton package and the pallet comply with the standards regarding recycling and disposal (as for disposal, follow the regulations in force in your country).

4.4 Device and accessories identification

The plate shown in Figure 1 includes the main operating and identification characteristics of the machine. The serial number printed in the relevant box is particularly important.

This number must be mentioned in any request for service, spare parts, repairs or information concerning the operation of the machine.

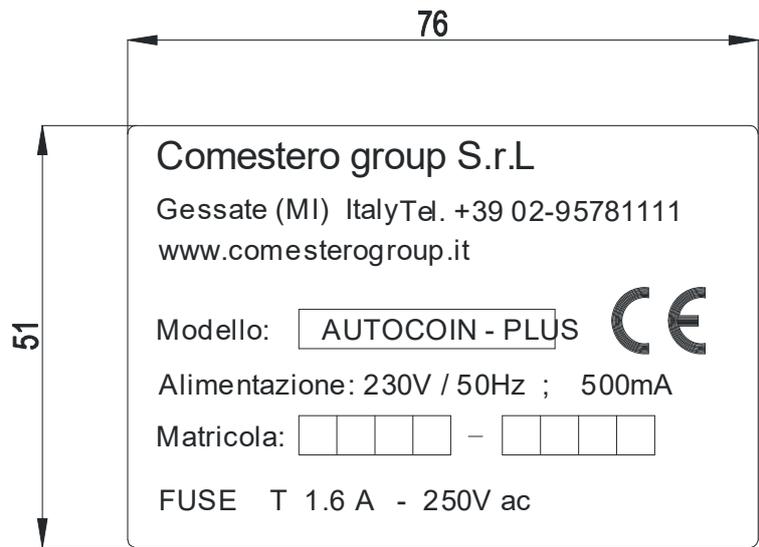


Fig. 1



The identification plate of the machine must be well visible. It is forbidden to remove it or tamper the data on it. In case of damage or loss, a new plate can be requested to the manufacturer.

To ensure visibility even if the machine is installed, the plate is applied both on the outer right wall and on the inside left wall on the machine as shown in Figure 2 below.



Fig. 2

4.5 Name of parts

4.5.1 View from outside

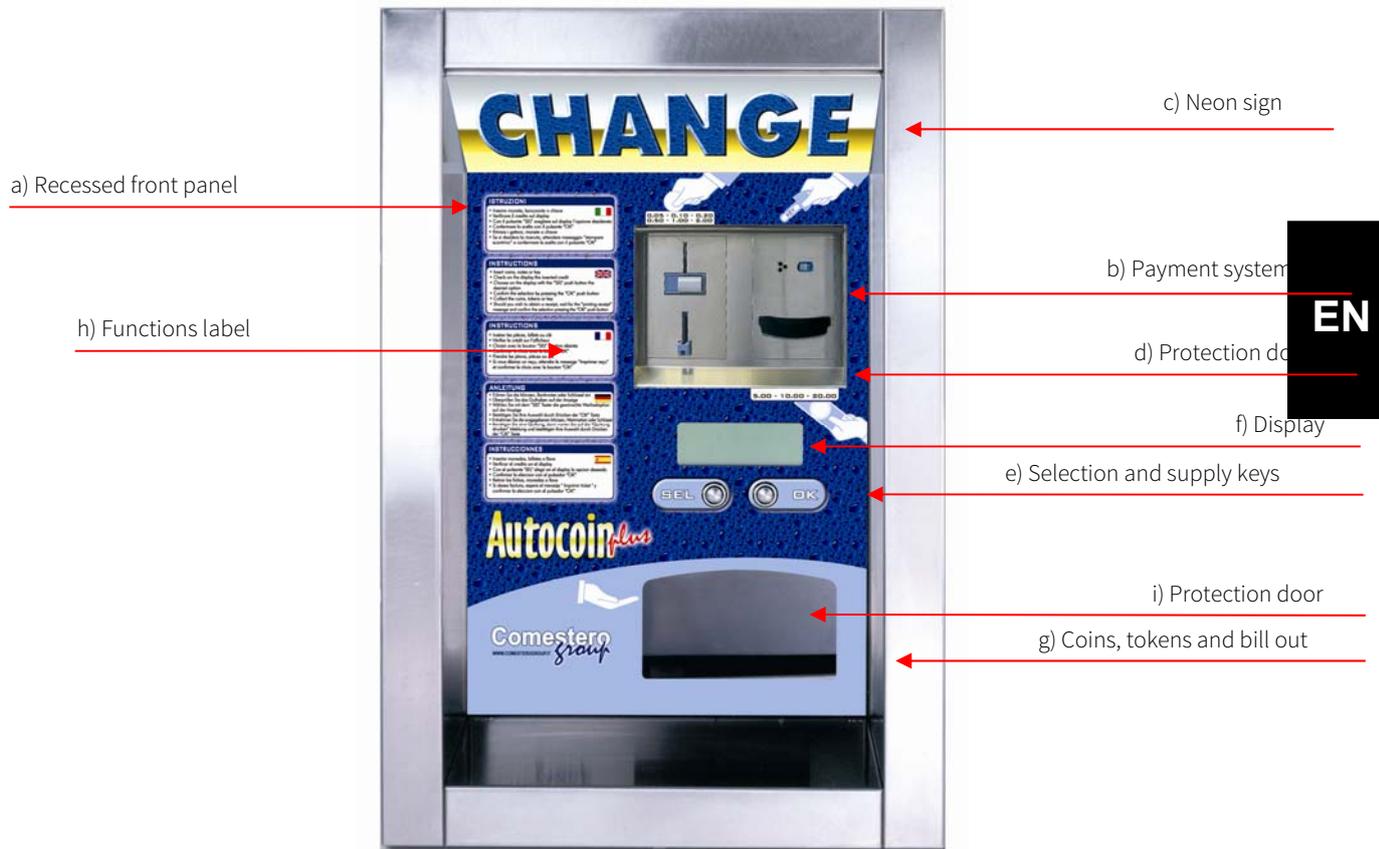


Fig. 3

- **Front panel:** Recessed to protect the devices from pouring rain and direct sunlight.
- **Payment systems:** Different payment systems combinations are possible according the customer requests.
- **Neon sign:** It has an aesthetic function, but makes the panel detection easier too.
- **Protection door:** Realized in strong and transparent polycarbonate, it protects the payment systems from the weathering.
- **Keys:** There are two keys to select (SEL key) and supply the change (OK key).
- **Display:** It shows the machine status and the available options.
- **Bowl:** Designed to quickly draw out coins, tokens and bill.
- **Label:** It contains instructions about the machine functioning.

4.5.2 View from the inside

l) Top loading



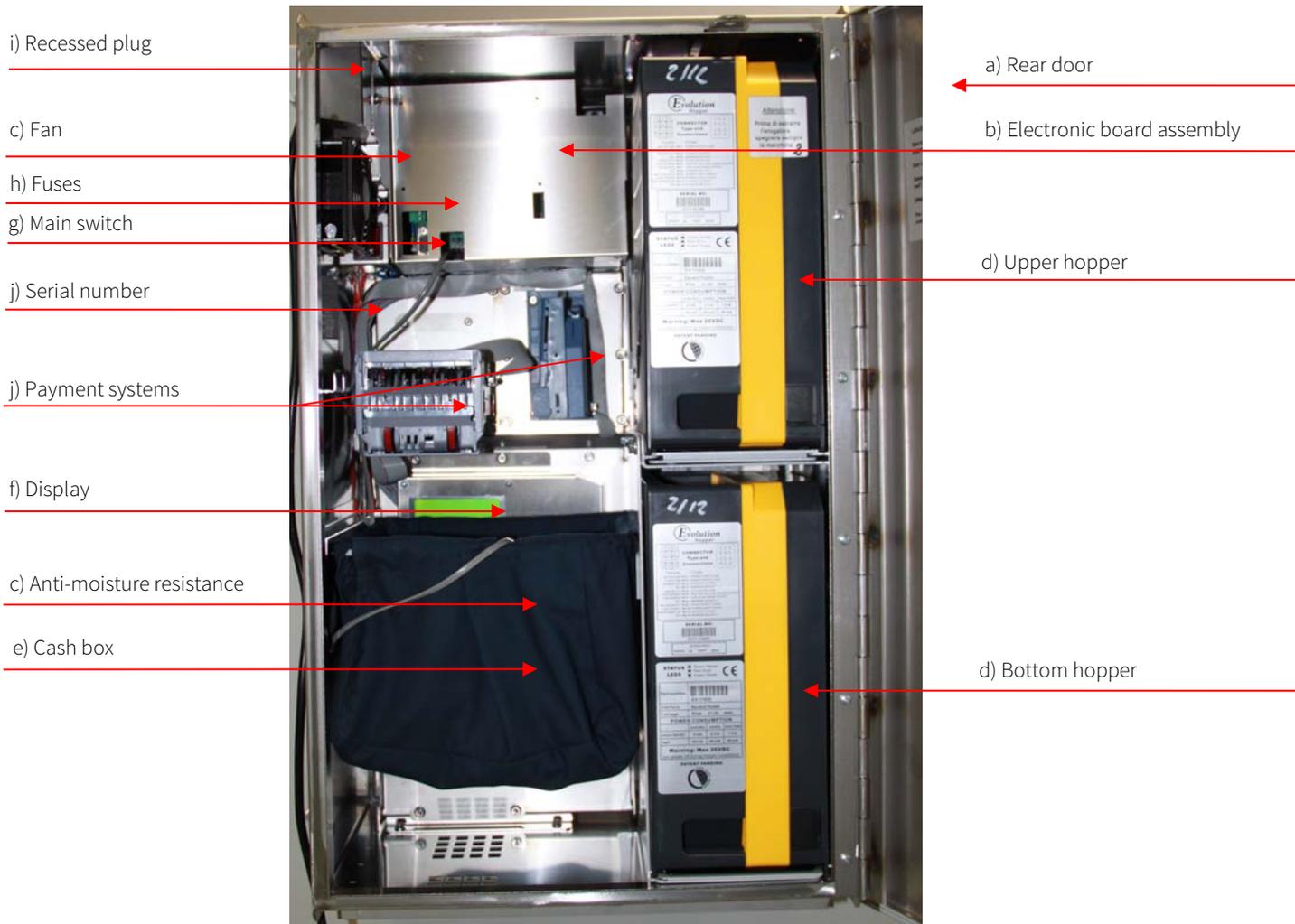


Fig. 4

Built in stainless steel and assembled with a continuous hinge. The closure is guaranteed by a sturdy lock with Zama cylinder connected with brackets that by acting on three distinct locking points give the best protection in case of burglary attempt.

a) Rear door:

b) Electronic board assembly:

c) Fan and anti-moisture resistance:

d) Coins and tokens dispensers:

The supply and the CPU board are the electronic part of Autocoin Plus. They are protected by a special metallic screen that avoid electrical noise and accidental contact.

Protection from excessive heat is provided by a fan placed inside the machine that functions while Autocoin Plus is switched on. Protection from moisture is provided by a special anti-moisture resistance, that ensure the Autocoin Plus functioning even with low temperature. The anti-moisture resistance is placed behind the cash box.

Autocoin Plus has two hoppers. To refill coins and tokens it is not necessary to move the hoppers from their normal position. Indeed it is sufficient to pull out the hoppers by sliding on their sled up to the limit, where they stop and can be refilled.

-
- | | |
|----------------------------|--|
| e) <u>Cash box:</u> | The cash introduced into Autocoin Plus settles in the special bag that can contain at least 1000 notes and 1000 coins. |
| f) <u>Display:</u> | A second display is installed inside Autocoin Plus to simplify the machine control and programming. |
| g) <u>General switch:</u> | 230 Vac 16°, placed behind the fan, at the bottom. |
| h) <u>Fuses:</u> | 250 Vac 2°, placed behind the fan, at the top. |
| i) <u>Plug:</u> | Placed outside, recessed in the change machine box. The plug supplied comply with the standards of the country where the device is commercialized. |
| j) <u>Serial number:</u> | Label with serial number and production date, required for the warranty application. |
| k) <u>Payment systems:</u> | They can change according the customer requests. |
| l) <u>Top loading:</u> | It is possible to refill the dispenser from the outside, without opening the machine. |

4.6 Accessories

The product includes the following **standard accessories**:

- Operating manual
- Power cord
- Compartment keys

Two keys are provided for the one lock on the machine.

We recommend creating two sets of keys and storing spare keys in a safe place other than the place normally used for the service set of keys.

Furthermore, we recommend noting down the serial number engraved on each key so that a duplicate key can be requested to SUZOHAPP if the key is lost.

5. Installation

5.1 Dimensions

Autocoin Plus has to be installed on the wall by using appropriate lifting devices, avoiding shocks.

To permanently fix Autocoin Plus carefully apply the following instructions:

- 1) The wall where Auocoin Plus has to be installed must be vertical, with maximum inclination of 2°, and sturdy enough to support the machine, with thickness up to 200

mm. Moreover it must be free of strong vibrations transmitted by other mechanical devices

- 2) Draw on the wall the shape of the box and the four holes position according the drawing on the next page or using the supplied counterflange as outline. It is recommended to keep the change machine as vertical as possible to avoid dispenser problems
- 3) Fix the flange placed behind the wall and the counterflange placed in front of the wall by using the four bolts supplied with Autocoins Plus. Ensure a proper isolation of the frame from the water through the special seals or alternatively through a silicone-based adhesive
- 4) Connect the cable supplied with the change machine to a 230Vac/50 Hz plug. It is recommended to install a circuit breaker upstream the feeding line
- 5) The machine can be switched on by using the main switch inside Autocoin Plus
- 6) To start Autocoin Plus introduce at least 100 coins or tokens inside the dispensers (to exit from the EMPTY condition). By this way the different payment systems are enabled and the change machine is ready to operation

CHANGE MACHINE INSTALLATION CLEARANCES

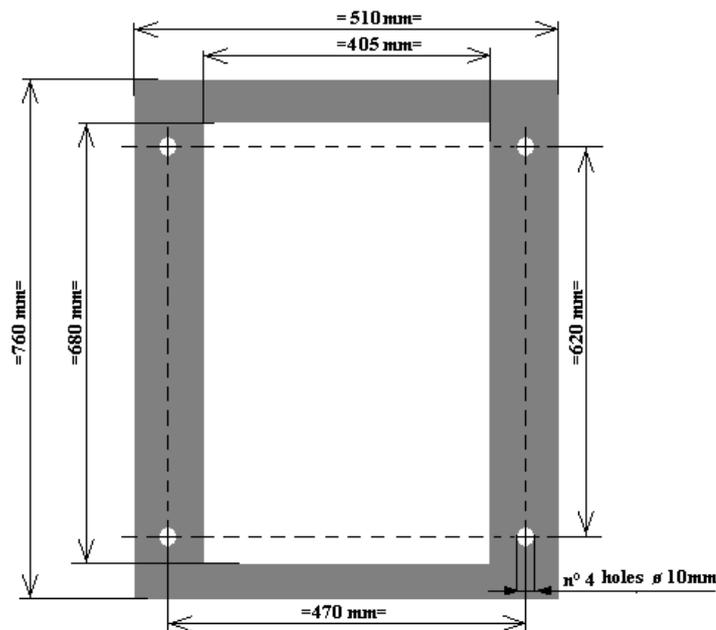


Fig. 4

5.2 Available peripheral combination

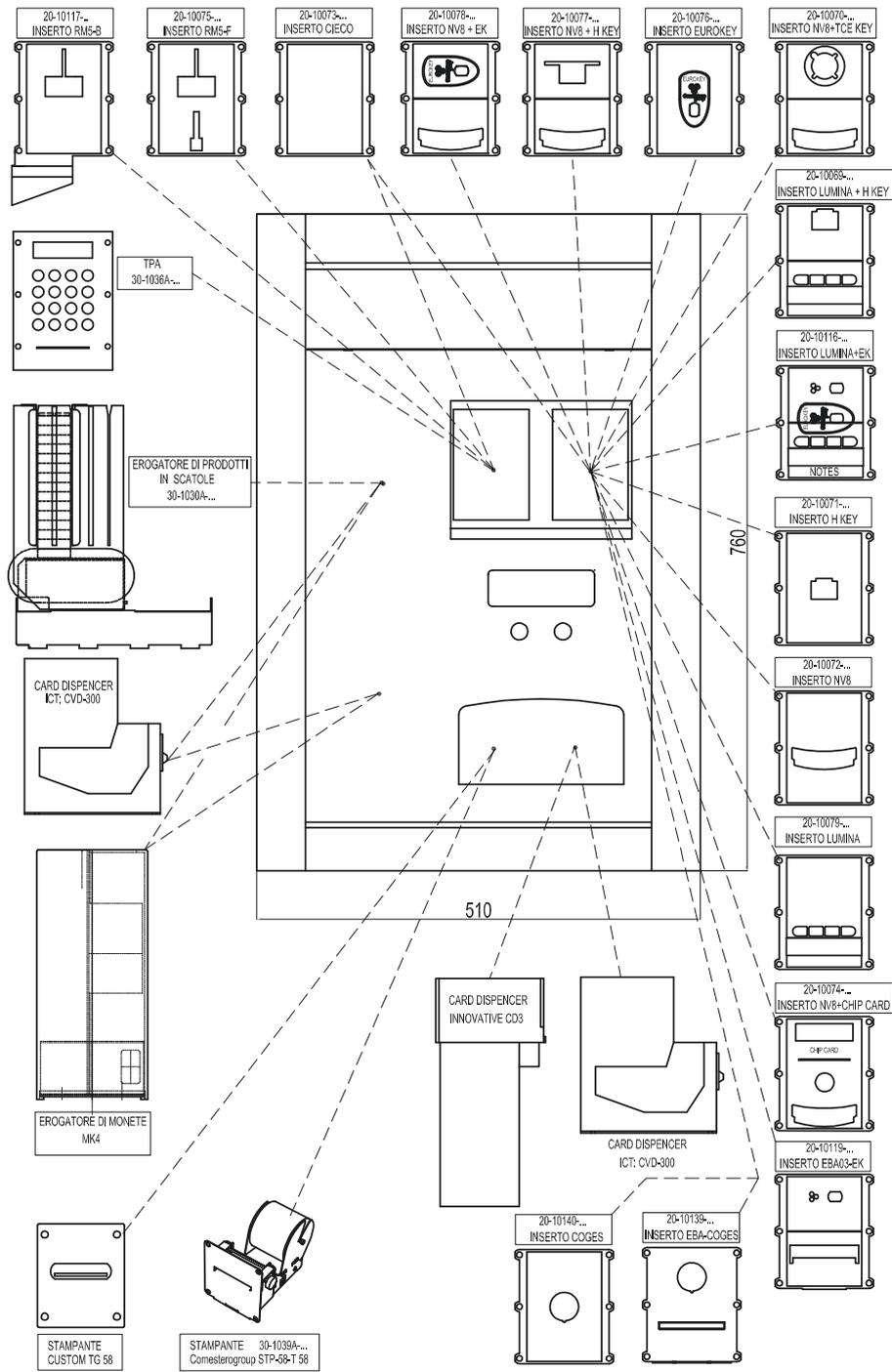


Fig. 17

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6. Starting up the machine

This machine is delivered, from the factory, with a standard configuration that can be modified by the user (please see section 7.2 for further details).

6.1 Preliminary operations



Before starting the machine, to exit from the EMPTY condition, fill the dispensers with coins or tokens.

In this way the various payment systems are enabled and the machine is ready to operate.

6.2 Standard operation of the change machine

Below is a description of the standard operation of the change machine: any setting other than the factory setting may cause different behaviours of the machine in comparison with the provisions of this manual (see Chapter 8 “Programming”).

Unless otherwise specified by the customer upon purchase, the change machine is programmed and configured as follows:

Machine configuration:

- **Language:**

Italian, English, French, Spanish, German (the following languages Czech, Croatian, Dutch, Polish, Portuguese, Slovenian, Turkish are available upon request)

- **Value table:**

Currency: Euro by default, Pound and Dollar upon request

Note validator: NV10, EBA 03

Validator mode: Parallel with 5 / 10 / 20 / 50 € and EBA 03 impulsive with 5 / 10 / 20 €

Coin mechanism: RM5 F00, RM5 HD

Coin mechanism mode: validator with 0,05 / 0,10 / 0,20 / 0,50 / 1 / 2 €

- **Dispenser type:**

Universal Hopper MK4 Coin Control, EV1000 Suzo

- **Hopper message:**

Coins/Tokens

- **Button functions**

Selection (SEL key) and Dispensing (OK key)

Machine programming:

- Dispenser value: 1,00 €
- Dispensing selection:
 - Level 1.1
 - 1,00 €
 - 1x1,00 € = (1,00 €)
- Required hopper: None
- Automatic threshold: No
- Max.Introduction: 50 €
- Residual Credit: YES for 1 minute

With this configuration the change machine can accept 5 / 10 / 20 € notes and (if provided with coin mechanism) 0,05 / 0,10 / 0,20 / 0,50 / 1 / 2 € coins and change them into 1 € coins. The change machine user can introduce up to 50 € in the payment systems (note validator and/or coin mechanism); to get the change, that will be at par (i.e. the value of the dispensed coins will be equal to the total value of the introduced money) the user must press the OK button on the front of the equipment; the residual credit, if any, generated by the fact that an amount not perfectly divisible by the dispensed coins (1 €) has been introduced, will be shown on the display and can be re-used for one minute; after this time period the amount will be lost and the change machine display will show the main frame again.

6.3 General parameters setting procedure

Autocoin Plus can be programmed only by using the special programmer supplied with it.



Fig. 23

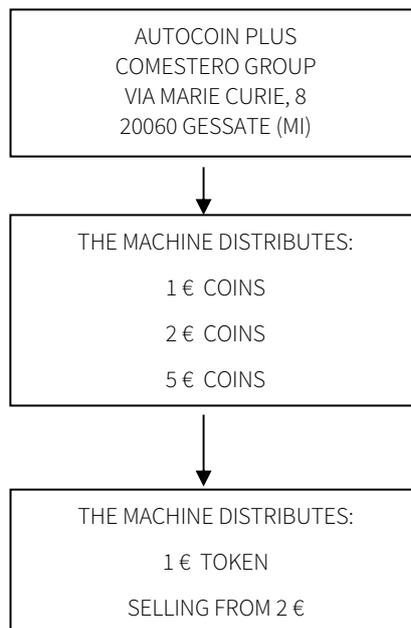
6.3.1 Regular operation

Switch on the change machine by using the red switch inside Autocoin Plus.

As the Autocoin Plus is switched on the program release and the machine serial number are shown on the display for few seconds. Then the normal operation screens appear.

When the change machine is functioning, the display, that shows 4 lines with 20 characters each, is updated every 3 seconds, so that all the data are visualized ciclically. It is possible to see an advertisement in the first screen and the available coins and tokens in the second and eventually the third screen.

EXAMPLE:



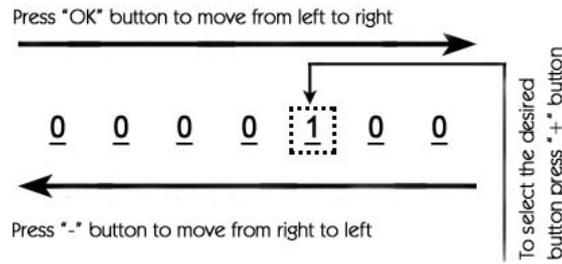
6.3.2 Operating parameters setup menu

To set any operation parameter of the change machine it is necessary to enter the relevant menu and select the desired function. The parameter setting principle is the following.

- Access the different menus by selecting the desired function, that begin to flash. Move with “+” and “-“ buttons and press “OK” to confirm
- Set the values by pressing “OK”. The display will show the figures forming the value. To move from left to right use “OK” button, to move from right to left use “-“ button.

When the desired position is reached, as identified by the flashing character, use “+” button to establish the figure ranging from 0 to 9. Press “OK” to confirm and move. When the last figure is confirmed, the display will show the set value. Now if also the other parameters need to be changed, programming can be continued by pressing “OK”, otherwise you can go back to the programming menu by keeping “-“ button pressed.

Example of value change:

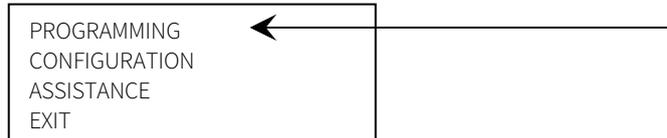


To access the available menu it is necessary to press “+” and “OK” buttons at the same time. The frame below will be displayed:



7. Programming

To access the Programming Menu select the corresponding heading after pressing “+” and “OK” buttons at the same time on the Programmer.



From the Programming Menu it is possible to set or change the machine operating parameters. Here below are listed and described the programmable functions in the different Programming Menu sections.

To pass from a function to an other, press “+” and “-“. To confirm the selected heading identified by the flashing, press “OK”.

PROGRAMMING MENU:

- HOPPER VALUES
- DISPENSING SELECTION
- REQUIRED HOPPER
- AUTOMATIC THRESHOLD
- MAX: INTRODUCTION
- RESIDUAL CREDIT
- HISTORICAL SETTING TO ZERO
- EXIT

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7.1 Hopper values

This section of the menu is used to set the values of the tokens, coins or cards to be dispensed by the change machine.

Example:

VALUE PIECES DISPENSED



Dispenser position and content identification. See the peripheral positioning diagram.

Supplied pieces value assignment field.

The supplied pieces value assignment field has to be set according the value of the single piece. For example, if the Hopper1 of the change machine has to supply 0,50 € coins, it is sufficient to set on the NR1 line the 0,50 value.

See the “General parameters setting procedure” paragraph.

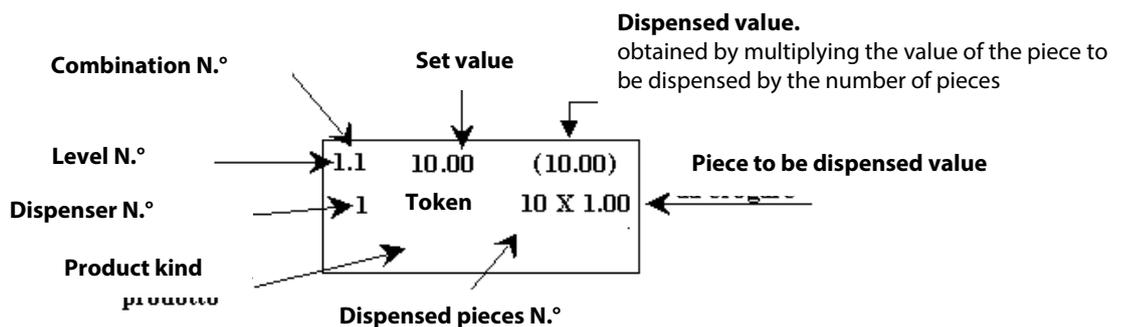
7.2 Dispensing selection

In this section it is possible to program 9 change levels. For each level, 5 different combinations can be set. Change level means the value at which we want the machine to make the change. The value between brackets is the value that will be dispensed, if it corresponds to the value that is out of brackets, it means that the change machine will make the change at par, e.g. 10,00 € = 10 pieces of 1 € each.

If instead we want to give a BONUS, the value between brackets will be bigger than the value out of brackets. E.g. when introducing a 10€ note we want a corresponding dispensing of 12 tokens of 1€ each, the set value will be 10€, whereas the dispensed value will be 12€.

Example:

We want the change machine to be programmed to make the change using 1.00 Euro coins only.



Note:

If the change is set for the smallest note or coin, the changes of the other notes or coins need no setting as these will be considered as multiples of the first one.

7.3 Required hopper

In this section it is possible to set one of the hoppers as necessary, so that if this specific dispenser is empty or broken, the whole change machine is blocked.

NOT EXPECTED	
1 COINS	3 COINS
2 COINS	4 TOKENS

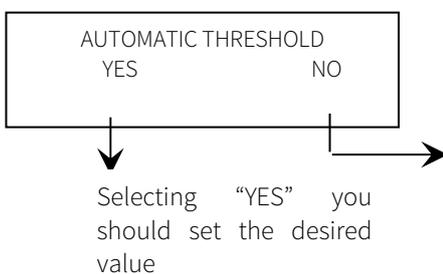
To access this function it is sufficient to select it. The corresponding heading will be highlighted by the flashing. Press “OK” to confirm the selected choice, then select the desired option by pressing “+” and “-”, finally press “OK” again to confirm.

7.4 Automatic threshold

In this section it is possible to choose a threshold value above which the change machine gives coins automatically.

If the automatic threshold is not set, the change machine functions with manual mode and requires the user to press the dispensing button to get the change.

For example if the automatic threshold value is set at 10.00€ , up to 9.90€ the change machine will visualize the available change according to the set table and to get the change it will be necessary to press the dispensing button. When a 0.10 € coin is added, and therefore the automatic threshold is reached, the change machine will dispense without requiring the use of the button.



See the “7. Programming” chapter to set the automatic threshold value.

7.5 Max. introduction

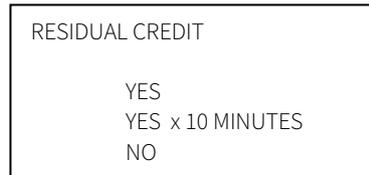
In this section it is possible to fix the max. credit that can be cumulated for every single transaction, after that the change machine accepts only a last coin or note.

When the set value is exceeded the change machine emits a sound, inhibits the payment systems and performs only change operations.

It is not possible to set a value lower than the value of the highest note nor lower than the value of the highest change level. Should this be incorrectly done, the set figure will be ignored and the highest note or table value will be taken as the limit.

7.6 Residual credit

In this section it is possible to select three different modes to manage the residual credit. The residual credit is generated when the user of the change machine introduces an amount which is not entirely divisible by the value of the coin dispensed. Then the residual credit is a fraction of the smaller credit that the change machine can dispense.



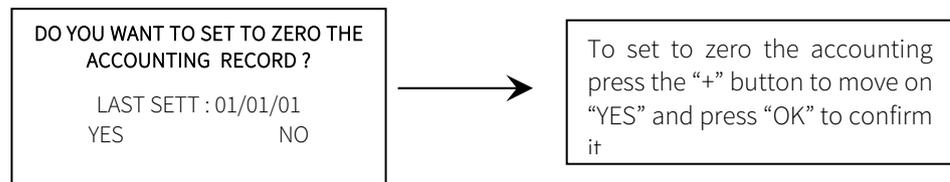
By selecting “YES” the change machine stores the credit not deliverable eventually remained and considers it for the following changes.

By selecting “NO” the credit not deliverable eventually remained is cancelled.

By selecting “YES X MINUTES” it is possible to fix a time after that the residual credit is automatically cancelled.

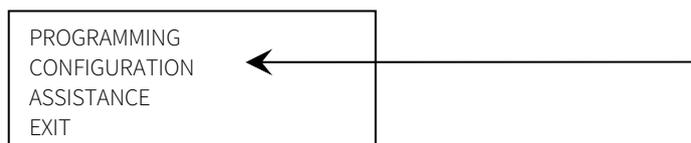
7.7 Historical setting to zero

In this section it is possible to set to zero the accounting record kept in memory by the change machine.



7.8 Configuration Menu

To access the Configuration Menu select the corresponding heading after pressing “+” and “OK” buttons at the same time on the Programmer.



Below is a list and a description of the functions that can be programmed in the different sections of the Configuration Menu.

CONFIGURATION MENU:

↑ LANGUAGE SELECTION
VALUE TABLE
HOPPERS PROVIDED

OPTIONS
DATE AND TIME
ADVERTISING MESSAGE
TICKET HEADER
EXIT

The Configuration menu is the menu including the hardware settings of the machine. These functions are set directly by SUZOHAPP technicians during the production. Therefore before making any change in this menu, it is advisable to contact the After-Sales Service who can supply information about the operations.

Below is a description of the functions that can be programmed in this menu.

The Configuration menu is a scrolling menu; to shift from one function to another press “+” and “-” buttons, press “OK” to confirm.



7.9 Language selection

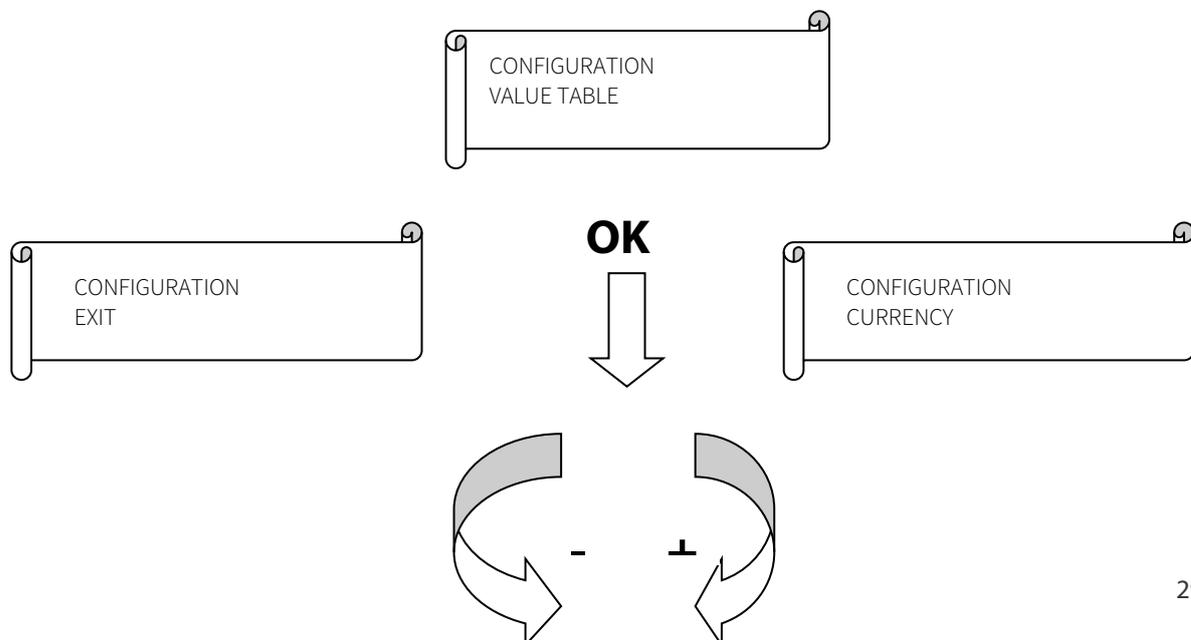
The change machine is designed to show on the display messages in Italian, English, French, Spanish and German. Moreover is available, only in some releases, an “ALL” function that allows to show cyclically the messages in all the languages. By pressing the selection or the supply button it is possible to select the language maintained during all the change operation.

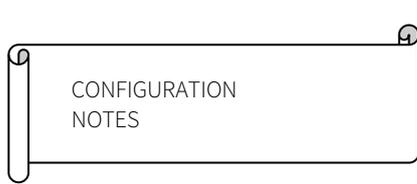
See the “General parameters setting procedure” paragraph.



7.10 Value tables

In the Value table different parameters can be set. Below is a description of the functions that can be programmed in this menu.



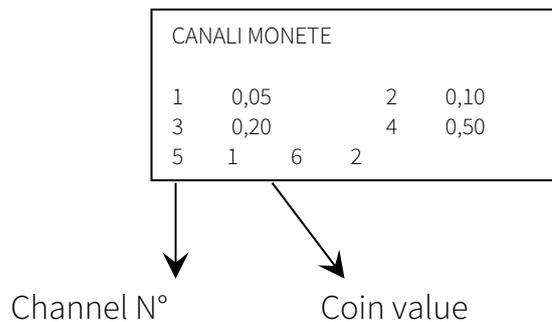


7.11 Currency

It is possible to select the character representing the currency of the country where the change machine is used.

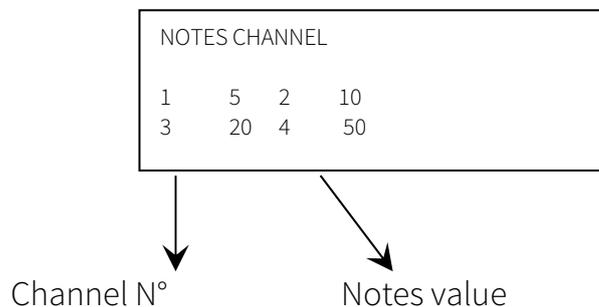
7.12 Coins

It is possible to set the values of the 6 coins accepted by the electronic validator. For a correct configuration the parameters must be set with reference to the programming label of the coin mechanism.



7.13 Notes

It is possible to set the values of the 4 notes accepted by the validator. For a correct configuration the parameters must be set by referring to the programming label of the notes validator.



7.14 Hoppers provided

In this section it is necessary to set the quantity, the kind and the content of the hoppers, so that the change machine could manage them and could perform the change operations. If the change machine has to function with only one hopper, it is sufficient to set the heading “NOT PRESENT” for the hopper 2.

N° 1	COINS
N° 2	TOKENS

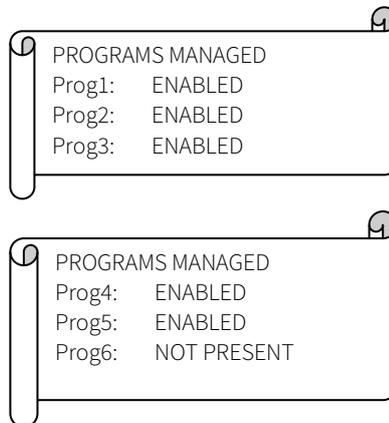
Through the **Coins or Tokens** parameters the configuration to drive the Coin Control Universal Hopper MK4 or the SUZOHAPP EV1000 Hopper is set.

Through the **Boards 1** parameters the configuration to drive the Innovative Card Dispenser Mod. CD3/12 is set.

Through the **Boards 2** parameters the configuration to drive the Asahi Seiko Card Dispenser Mod. CD200 is set.

7.15 Managed programs

Inside this function, you can decide how many and which programs will be managed. Due to the limits of viewing the programs are displayed three at a time, to enter the next visualisation press the "+" button.



7.16 Options

In this section it is possible to set different parameters, described here below.



7.17 Display

It is possible to set an internal display, if present.

ATTENTION!

If this setting is changed, it is necessary to switch off and then switch on again the change machine.



7.18 Ticket

It is possible to set the slip printing. If the slip printing is enabled, the change machine automatically prints on the slip the number of tokens supplied and the sales carried out or prints only the difference between cash introduced and cash dispensed. See the “Slip Head” paragraph to set the bill header.

TICKET PRINTING?	
YES	NO

ESEMPIO DI STAMPA

SCONTRINO COMESTERO GROUP VIA MARIE CURIE 8 GESSATE (MI)	
Appar.N.	23269
101. EURO	6.50
PAGAMENTO IN CONTANTI	
RICEVUTA NON FISCALE	
Ora:	10:12
Data:	01/01/2004
Nr.	33787
ARRIVEDERCI E GRAZIE	

7.19 Key

It is possible, only in some releases, to set an electronic key payment system, if present.

ELECTRONIC KEY?	
YES	NO

7.20 Date and time

In this section it is possible to set or change the date and the time of the change machine internal clock.

UPDATE	
TIME :	16:25
DATE :	01/01/01



(day/month/year)

See the section “7.8 Configuration Menu” for any further details.

7.21 Advertising message

In this section it is possible to set an information or advertising message with 4 lines of 20 characters each.

If the “YES” option is selected a screen appears where the sentence or the message that has to be shown to the customer during the functioning can be typed.

After entering the advertising message, it is sufficient to press the “OK” button for few seconds to confirm and exit from the screen.



See the section “7.8 Configuration Menu” for any further details.

7.22 Ticket header

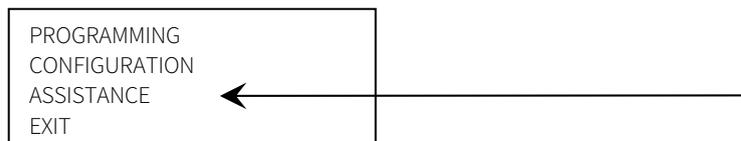
This function allows to insert an information or advertising header on the slip. By selecting “YES” a screen appears where the sentence or the advertising message that has to be used as slip header can be typed.

After entering the header, it is sufficient to press the “OK” button for few seconds to confirm and exit from the screen.



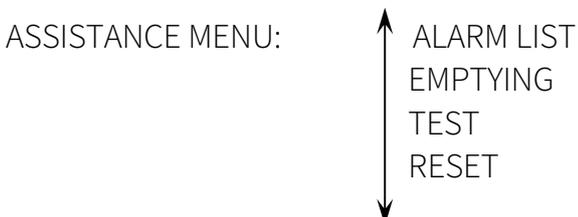
8. Assistance

To access the Assistance Menu press “+” and “OK” buttons at the same time on the Programmer, use the “+” button to move in the menu list until the “ASSISTANCE” heading is shown, then confirm by using the “OK” button.



The Assistance menu includes the diagnostic functions of the machine. The diagnostic functions are usually used by the technicians to check the correct operation of the machine. Indeed when a failure happens, the error occurred is registered. It is therefore advisable to contact the SUZOHAPP After-Sales Assistance to have information about the checks to carry out.

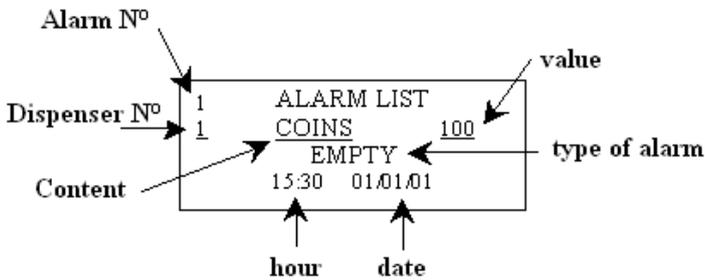
Below is a list and a description of the functions included into the different sections of this menu.



EXIT

8.1 Alarm list

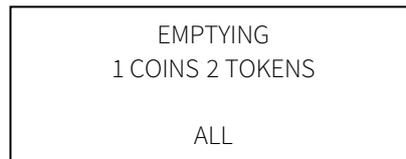
The change machine can diagnose up to 10 anomalies. For each of them it is shown the sequence number to which it is associated, the kind of peripheral, the cause, the code, the recording date and time.



- ALARM LIST:
 ALARM 1: EMPTY HOPPER
 ALARM 2: BLOCKED HOPPER
 ALARM 3: DISPENSING WITHOUT COMMAND
 ALARM 4: OUTPUT SENSOR FAILURE
 ALARM 5: STUCK TOKEN AT THE SWITCHING ON

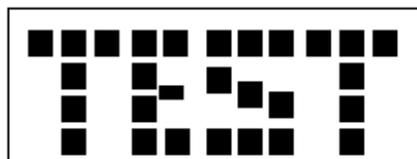
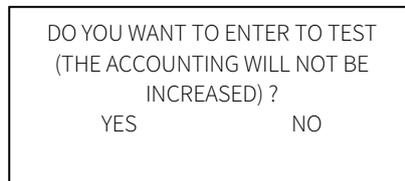
8.2 Emptying

This function allows to carry out the complete emptying of one or more hoppers.



8.3 Test

This function allows to verify the correct functioning of the machine without modifying the accounting. To enter the Test mode select the TEST heading in the Assistance Menu, then, in the screen that appears, move on the “YES” heading by using the “+” button and confirm the choice by pressing “OK”, finally get out from the menu and return to the first screen. The machine indicates operation in Test mode by emitting a sound and showing on the display the “Test” word. To get out from the Test mode it is sufficient to enter the Assistance Menu, select the TEST function, move on the “NO” heading and confirm the choice pressing “OK”, otherwise it is sufficient to switch off the change machine for few seconds.



8.4 Reset

This function allows to partially or totally reset the machine.

If the “ONLY PROGRAMMING” option is confirmed, all the values contained in the Programming menu will be cancelled.

If the “CONFIGURATION + PROGRAMM.” option is confirmed, the machine emits a sound signal (BIP) of about three seconds, while cancelling all the values contained both in the Programming Menu and the Configuration Menu. At the end of the reset process in the change machine only the minimum configuration will be present, composed by the settings for a display, an hopper, Euro currency, date and time. The machine without programming will show on the display the words “MACHINE OUT OF SERVICE”. To set again the Programming Menu and Configuration Menu parameters necessary to the functioning, see the respective paragraphs.



FUNCTION TO BE USED WITH SPECIAL CARE.

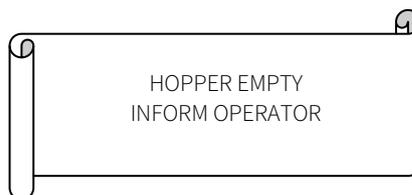
8.5 Signals on display

In normal conditions of use the main frame of the change machine will appear as shown below.



Where XXX is the value of the coin dispensed.

Should the change machine go out of order, the display can appear as follows:



This message means that the change machine finds the coin hopper empty and therefore it cannot make the change operations.

To restore the machine functioning introduce coins into the hopper.



This message means that the program is corrupt and the change machine board must be reprogrammed.



This message means that the configuration and accounting data of the change machine are corrupt and it is therefore necessary to set accounting to zero and to reconfigure the board.



This message can be generated by three possible causes:

CASE 1

This message shows an inconsistency in the machine programming related to the activation of the button function “dispense <A> dispense ” together with the “automatic threshold function” or with a change table where the contemporaneous dispensing from both hoppers is required. The “+” and “OK” programmer buttons must be kept pressed at the same time until the display shows the message “programming technician management”; then fix the inconsistencies.

CASE 2

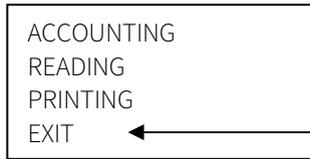
This message means that both hoppers are in alarm condition. The “+” and “OK” programmer buttons must be kept pressed at the same time until the display shows the message “programming technician management”, move with “+” button in the Assistance Menu and check the cause in the ALARM LIST.

CASE 3

This message means that the hopper set as necessary in the Programming Menu is in alarm condition. The “+” and “OK” programmer buttons must be kept pressed at the same time until the display shows the message “programming technician management”, move with “+” button in the Assistance Menu and check the cause in the ALARM LIST.

8.6 Accounting Menu

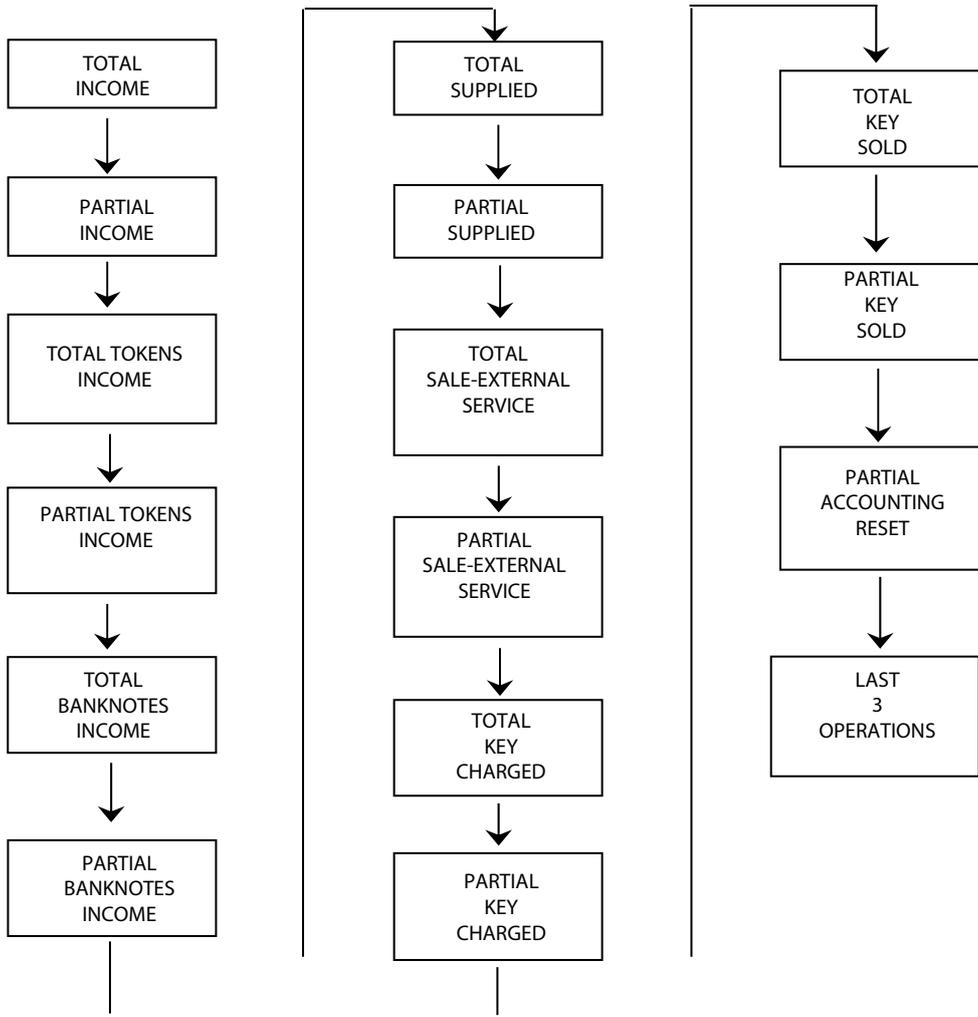
Autocoin Plus allows to check and print the accounting data. To access this function the “OK” programmer button must be kept pressed. Select the desired function through the “+” and “-” buttons, the selected function will be highlighted by the flashing, then press “OK” to confirm. Select EXIT to return to the normal functioning.



Selecting "EXIT" you come back to the Regular Operation

8.6.1 READING Menu

Press the "OK" button to move through the menu functions showed here below

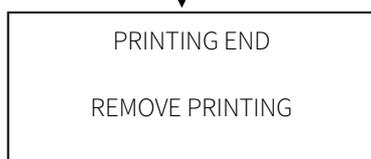


8.6.2 PRINTING Menu

Selecting "YES" when printing is finished you will see the following message



Selecting "NO" you come back to the main menu



Selecting “EXIT” you come
back to the Regular
Operation

9. 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.

9.1 External maintenance and cleaning

Clean the exterior surface of the machine; 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 use jets of water (hydro-cleaners) to clean the machine.

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.)

See the “Spare parts” section later this manual, to order the right replacement parts.

9.2 Internal maintenance and cleaning

Clean the machine interior with a damp cloth; use only compressed air to clean the electronic components. Periodically check the connections of each cable and check that the peripheral connection cables are not frayed or excessively bent.

If any unusual situation is noticed with regard to cables and connectors, immediately replace them according to the “Spare parts” section.

9.3 Inactivity periods

We recommend turning the machine OFF by means of the main power switch located inside the case for short inactivity periods, when the machine will not be used for two or three days.

For long inactivity periods, when the machine will not be used for longer periods of time, we suggest unplugging the machine from the power grid, removing the power plug from the wall socket.

Protect the machine from dust, covering it with a drape and store it in a dry and ventilated area.

9.4 Lithium battery replacement

The non-rechargeable lithium battery BT1 must be replaced with the model BR2032, nominal voltage 3V, 190 mA capacity, inserted as shown in the Connection Diagram. N.B. UN INCORRECT BATTERY REPLACEMENT CAN CAUSE AN EXPLOSION.

EN

9.5 NV10 banknotes reader maintenance



The initialization of a NV10 reader is a procedure rather complex to be carried by the user.

Whenever you want to “re-initialize” the NV10 banknotes reader, we suggest you to contact the Comestero after sales service at the following number: (+39) 02 95781111.

In the event the reader reveal a poor acceptance of banknotes, you must perform the initialization procedure of the NV10 reader.

This procedure can be useful when there is a sudden efficiency reduction of the reader or when there is a poor banknote acceptance by the validator due to dust. In this case it is necessary a cleaning of the reader both mechanical and electronic. Open the mouth of the reader and clean the lenses very gently using a paper towel, then wipe them immediately to remove any streak.

10. Diagnostic and technical support

This section presents the main faults that can be noticed during operations and the corresponding possible solutions in order to minimise or completely eliminate any need for machine shutdown.



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.

Problem			Solution
Empty	hopper	warning	Make sure that the coins level is sufficient to cover the brass

although the hopper is apparently loaded.	plates placed at the bottom of the hopper.
	To make sure that the hopper is correctly in place, exert slight traction on it and check whether the stopping device prevents it from moving horizontally. If the hopper is not locked into place, push it further in until you hear the protrusion underneath it click as it snaps into the slide.
	Clean with metal brush the brass plates placed at the bottom of the hopper. Complete the operation by cleaning the plates through a soft cloth dampened with alcohol.
The equipment is switched on, but does not accept banknotes.	Make sure that there are no banknotes jammed in the validator.
The equipment is switched ON, but does not accept banknotes.	Verify that the banknotes level in the cash box does not prevent the fall of the notes out of the reader.
The machine accepts banknotes but does not credit them.	Verify that the banknotes level in the cash box does not prevent the fall of the notes out of the reader.
	Check that the denomination of the inserted banknote has been configured in the banknote denomination table.
Poor banknote acceptance by the reader.	Do the NV10 initialization procedure.

Problem	Solution
Poor banknote acceptance by the validator.	Disconnect the reader and open it, clean the top and bottom parts of the LED sensors with a clamp cloth with water.
	Make sure the reader is perfectly closed.
The equipment display shows the message “EMPTY” for one or more hoppers.	Check that the coins inside the hopper are sufficient.
	Empty the hopper, then switch off the machine and remove the hopper.
	The two brass plates that act as coins presence sensors are inside the hopper, at the bottom.
	Clean the brass plates using a cloth soaked in alcohol, to eliminate the layer of grease and oxide.
	If the message does not disappear after filling the hopper, please contact the SUZOHAPP After-Sales Service.

The equipment display shows the message “ALARM” for one or more hoppers.	Check that the hopper is correctly in place, if the message does not disappear, switch off the change machine and remove the hopper.
	Empty the hopper on a table by turning it upside down, so that you can check if there are foreign bodies in it.
	Fill and replace the hopper.
	if the message does not disappear please contact the SUZOHAPP After-Sales Service.

11. Technical data

Coin change clearances (bxhxp) [mm]:	510 mm X 760 mm X 500 mm clearances on the whole
Weight [Kg]:	45
Operating temperature [°C]:	-15 ÷ +50
Storage temperature [°C]:	-30 ÷ +70
Not condensed humidity [%]:	10 ÷ 90
Input voltage [V/Hz]:	230 / 50
Absorbed power [VA]:	Max: 100 in stand-by: 25
Coins / tokens quantity:	1600 pieces/dispenser or 1600 + 3000 pieces in case of hopper with extension.

Protection rating:	IP 54
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Installed peripherals

Banknote reader:	Innovative Technology NV10
Coin / Token dispenser:	Up to two dispensers Universal Hopper MK4 Coin Control. SUZOHAPP Hopper Evolution1000
Coin diameter [mm]:	20 ÷ 30 (or 16 ÷ 20)
Cashless system:	Eurokey Next

Optional peripherals

Comestero electronic coin mechanism: RM5 Evolution
Front with reader, according with the customer requests
Hopper extension
External or internal printer
Product dispenser

12. Spare parts

Just alike to the parts to be replaced, our spare parts are in compliance with manufacturing specifications, and they guarantee during the time optimum performance and reliability, satisfying all industry regulations for which they are designed.



For further information about this spare parts list, please call our after-sale service at the following number: (+39) 02/95781111.

In order to provide a fastest way to search for spare parts and to make the work of our technicians easier, is necessary to provide SUZOHAPP after sales service with the following information:

- Model, type and serial number of the machine

- Code number, name and quantity of parts you intend to order

The following list applies to all configurations which the change machine Autocoin Plus is produced and sold.

12.1 Autocoin Plus general assembly

POSITION	CODE	DESCRIPTION
1	Z/AC-2010002-G	AUTOCOIN DOOR
2	C20---10085-A	AUTOCOIN LOCK ROD
3	Z/AC-2010003-E	UPPER DOOR
4	Z/AC-2010005-F	UPPER DOOR GUIDE Version F
5	C20---10065-H	COIN MECHANISM SLIDE AND BOXES Version H
6	Z/AC-2010016-F	AUTOCOIN COUNTERFLANGE Version F
7	Z/AP-2010115-A	INTERNAL WALL Version A
8	Z/AC-2010014-B	BAG SUPPORT ROD FOR AUTOCOIN
9	C20---10015-E	EXTENSION FOR MK4 CH.S-M-AUTO
10	Z/AC-2010025-D	AUTOCOIN HOPPER GUIDE
11	Z/X-20-10049A--	LOCK FOR HOPPER
12	Z/AP-2010078-A	NV8-EUROKEY INSERT Version. A
13	1001-20-0002-A	NV10-EK NEXT INSERT - AUTOCOIN
14	RFT-NEXT	EUROKEY NEXT
15	1053-20-0004-A	GASKET FOR ANTENNA MCF

POSITION	CODE	DESCRIPTION
16	20-13837-A	COUNTERFLANGE MCF FULL
17	RFT-CARDCO	RFT CARD SMART 1K LOGO COMESTERO
18	RFT-006-BLU	RFT KEY“BLU”
19	Z/AP-2010104-A	BLIND INSERT FOR CARD DISPENSER Version A
20	Z/AP-2010109-B	POWER GRID PROTECTION CARTER Version B
21	Z/AP-2010075-A	FRONTAL INSERT RM5F Version A
22	Z/AP-2010117-A	RM5-B INSERT
23	20-10105-D	AUTOCOIN PLUS CABINET
24	Z/AC-2010055-A	HOLE COVER FOR PRINTER
25	Z/AP-2010108-E	TOKENS COLLECTION FOR TOKENS Version E
26	Z/AP-2010110-C	CARTER FOR INTERNAL DISPLAY Version C
27	Z/AP-2010113-C	PAYMENT DEVICES SUPPORT Version C
28	C20---10112	PAYMENT DEVICES PROTECTION



29	C20---10057-E	TOKENS RECOVERY DOOR
30	C27-23950-B-30	Autocoin standard Europe – logo -
31	C11-29-10-15X10	ADHESIVE GASKET 15x10
32	Z/A-SERRATURE	CYLINDER LOCK 2901.00
33	Z/A-LEVETTE	STICK FOR LOCK 2901.00
34	Z/X-PULSANTINOX	BUTTON IN INOX
35	Z/A-DISPLAY-C	AUTOCOIN DISPLAY – front -
36	Z/A-VETRINO	GLASS FOR AUTOCOIN
37	Z/X-FILTRO220V	FILTER MODEL 906 – 6 AMP.
38	Z/A-PROTEGGIDIT	PLASTIC FINGER GUARD FOR FAN 80X80
39	Z/X-INTERRUTOR	BRIGHT SWITCH
40	Z/X-DISPLAY-C	DISPLAY CH.EURO, AUTOCOIN
41	FSE--START-4.06	S.E. Version 04_02_00.S19 – std CM-
42	Z/A-INSEGNA	POLYCARBONATE SIGN AUTOCOIN
43	C6TIRM8X300----	TIE ROD M8x300 ZINC-COATED
44	C21-10026-A	Reworked FUNNEL with hole
45	30213000000044A	REACTOR FOR NEON LAMP – autocoin
46	30213000000045A	NEON LAMP 13W – autocoin -
47	LS/NV10/EURO2	BANKNOTE READER FROM 5€ to 50€
48	Z/AC-2010020-D	AUTOCOIN SACK WITH TG58

POSITION	CODE	DESCRIPTION
49	SZ/EV1000ADJ	PARALLEL HOPPER EVOLUTION
50	Z/A-SLITTA-ADJ	CABLED SLIDE AUTOCOIN
51	C4302010000001C	EK MDB CABLE Autocoin plus Revision C
52	FRM5F00-T	F00 E06 trop. – change machine -
53	FRM5B00-T	B00 trop. €6 Autocoin-Pit Start
54	RM-F1/5	FRONT PLATE F1
55	FAE---CHANGEMAC	PROGRAMMER FOR CHANGE MACHINE
56	V/V-SCATOLE-U	AUTOCOIN BOX – 2 covers-
57	C27-CM	Change machine labels kit
58	C20---10795-A	EUROKEY HOLE COVER
59	C34R05X202.5000	FUSE 5X20 delayed 2.5 A
60	30202000000000A	FUSE 5X20 DELAYED 5A 250V
61	C20---10138-B	RELAY FINDER SUPPORT – Revision B

62	F-CM-F1-B	FRONT PLATE F1 BLUE/GREY BUTTON - autocoin
63	FSE-START-4.06	S.E. Version 04_02_00.S19 -std CM -

12.2 Lock for hopper (Cod. Z/X-20-10049A--)

POSITION	CODE	DESCRIPTION
1	Z/X-2010049A--GREZZO	LOCK FOR ROUGH HOPPER

12.3 Autocoin display – front - (Cod. Z/A-DISPLAY-C)

POSITION	CODE	DESCRIPTION
1	Z/A-DISPLAYANT	AUTOCOIN FRONT DISPLAY mp
2	CP206410P1600-L	CON. POL. C.S. 16P MOLEX
3	CP100200470501L	ELECTROLYTIC CAPACITOR 6,3X7 47mF 50V 105LE

EN

12.4 CH.EURO, AUTOCOIN display (Cod. Z/X-DISPLAY-C)

POSITION	CODE	DESCRIPTION
1	Z/SL-DISPLAY	CH. S.S m.p DISPLAY
2	CP206410P1600-L	CON. POL. DA C.S. 16P MOLEX

POSITION	CODE	DESCRIPTION
3	CP100200470501L	ELECTROLYTIC CAPACITOR 6,3X7 47mF 50V 105LE

12.5 S.E. Version 04_02_00.S19 -std CM - (Cod. FSE-START-4.06)

POSITION	CODE	DESCRIPTION
1	FSE---START-1	S.E. STANDARD BASE
2	CA28MCC24LC512-	EEPROM MCC24LC512-I/P
3	CP22CS02VP254F0	SHUNT p.2,54
4	C27-TT.15.0016	Met. square LABEL 11x12

12.6 Autocoin cabled slide (Cod. Z/A-SLITTA-ADJ)

POSITION	CODE	DESCRIPTION
1	Z/A-CBL1A	AUTOCOIN SLIDE ADJ

2	Z/A-CBLSLITTA/ADJ	AUTOCOIN SLIDE WIRING ADJ
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12.7 F00 E06 trop. – change machine - (Cod. FRM5F00-T)

POSITION	CODE	DESCRIPTION
1	FRM5F-C4-T-R	RM5F standard tropicalized Rohs
2	C25RM5—10374A1	DUCT REDUCER standard 29x3

12.8 B00 trop. €6 Autocoin-Pit Start (Cod. FRM5B00-T)

POSITION	CODE	DESCRIPTION
1	FRM5B-C4-T-R	RM5B C4 Version tropicalized Rohs
2	C25RM5—10374A1	DUCT REDUCER standard 29x3

12.9 Programmer for change machine (Cod. FAE---CHANGEMAC)

POSITION	CODE	DESCRIPTION
1	C27-23962-2	Programmer plate cm- 3 buttons -
2	Z/X-CBL6-B	PROGRAMMER CABLE

POSITION	CODE	DESCRIPTION
3	CP22-SL1/53/36Z	Double male header single row 36 positions 5.3 x 5.8

12.10 Silkscreen

CODE	DESCRIPTION
C27-23905-C	SILKSCREEN CHANGE FOR AUTOCOIN

12.11 Small parts

CODE	DESCRIPTION
C6-DIN6799-D4	ELASTIC RING DIN6799 diam. 4

C6-DADO06ZB-----	HEXAGONAL NUT M6 ZINC-COATED
C6-DADO3-BN860	FLANGED NUT M3 KNURLED
C6-DADO4-BN860	FLANGED NUT M4 KNURLED
C6-DADO08ZB-----	NUT M8 ZINC-COATED
C6-HTSBM310051	BRASS SPACER M3x10 F-F
C6-4X35-BN3318	SPACER M4x35 BN3318
C700-R912-2	CYLINDRICAL SPACER R900 $\varnothing 4,3 \times \varnothing 6,4 \times H=3$
C6-20-10048	SPACER FOR DISPLAY
C6RON18X6,2X0,6	SPRING CAP 18x6,2x0,6
V/S-PIASADESIVA	CABLE CLEATS PLATE ABMM-A-D
C6RIVET03,15X12	ALUMINUM RIVET 3,15x12
Z/X-DF-137-010	RIVET RICHCO DF-137-010
C6RONDIA3----NY	NYLON WASHER DIAM 3
C6RONDPIANA04-L	PLANE WASHER $\varnothing 4 \times 12$ – UNI 6593 ZINC-COATED
C6ROND-KS2-BLS-	WASHER QUICKLOCK KS 2
C6TCC03X06-----	PAN HEAD SCREW M3x6 – ISO7045 ZINC-COATED
C6TCC03X35	PAN HEAD SCREW M3x35 – ISO7045 ZINC-COATED
C6TCC04X12	PAN HEAD SCREW M4x12 – ISO7045 ZINC-COATED
C6TCC06X20-----	PAN HEAD SCREW M6x20 – ISO7045 ZINC-COATED
C6TSC04X12	CROSS-RECESSED RAISED COUNTERSUNK M4x12 ZINC-COATED
C6TSC04X08-----	CROSS-RECESSED RAISED COUNTERSUNK M4x8 ZINC-COATED

CODE	DESCRIPTION
C6TCC04X06	CROSS-RECESSED RAISED COUNTERSUNK M4x6 – ISO7045 ZINC-COATED
C6TCC-02X4-I	CROSS-RECESSED RAISED COUNTERSUNK M2x4 – ISO7045 INOX
C20---10724-A	INSULATION SPACER FOR LCD

12.12 Wiring group

CODE	DESCRIPTION
C4-GLC-300-084-B	AUTO COIN PLUS CABLED TRANSFORMER REV. B
C4-GLC-300-082-B	CABLED ANTI CONDENSATION FAN
C4-GLC-300-083	GROUND SWITCH-FILTER CABLE
C4-GLC-300-081	THERMOSTAT CABLE – new -

C4-GLC-300-085	230V ADAPTER CABLE
C4-GLC-300-087	GROUND-C.E.P.-FAN 230V CABLE
Z/A-CBL3A	AUTO COIN DISPLAY CABLE L=60
Z/A-CBL4A	3 POLES BUTTONS CABLE L=50 cm
Z/A-CBL7-B	LAMP 2p. + ground CABLE L=40 cm
C4302010000004	RM5 CABLE – autocoin plus -
C4302010000007	NV10 CABLE –autocoin plus-
CP25-04605PAS	FLANGE MOUNT ADAPTOR FOR RELAYS S46
CP25-46619024	RELAY 46.6190240040
Z/X-CAVOSCK90	SCHUKO POWER CORD 90 DEGREE ANGLE 10A PLUG
C4-GLC-300-125	SHORT CABLE cpu-ground

13. Appendix

13.1 Connection diagram

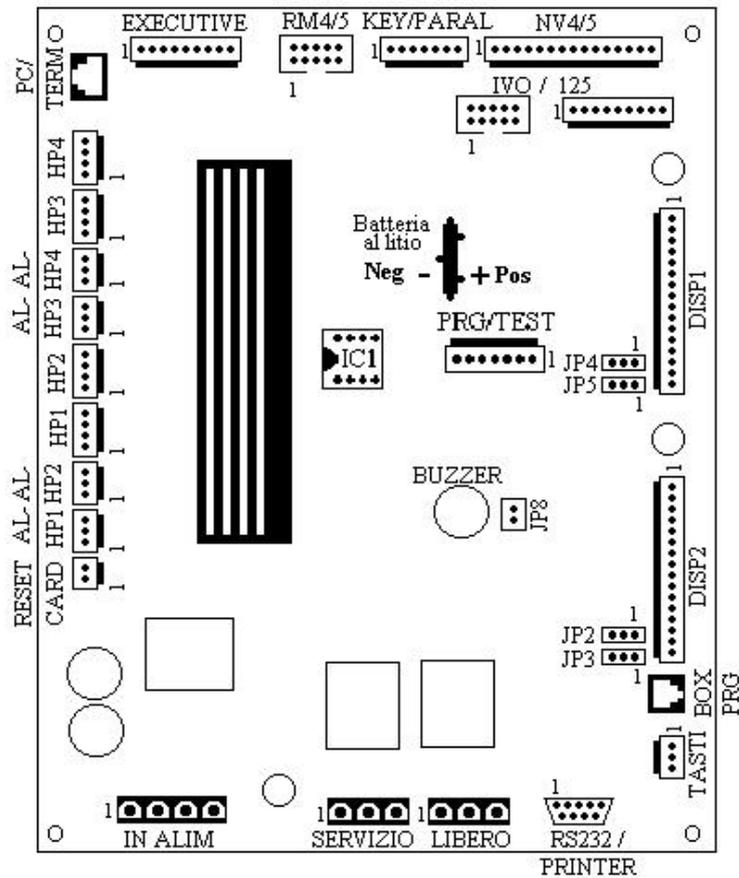


Fig. 34

13.2 Connector specifications

EXECUTIVE

Executive connector

Pin	Direction	Signal
1	-	24 Vac
2	OUTPUT	TX Master
3	OUTPUT	TX+ Slave
4	OUTPUT	TX - Slave
5	GND	0 V Master
6	INPUT	RX Master
7	INPUT	RX+ Slave
8	INPUT	RX- Slave
9	-	24 Vac

COIN MECHANISM RM5

Coin mechanism connector RM5

Pin	Direction	Signal
1	-	GND
2	-	+12 VDC
3	INPUT	CHANNEL 5
4	INPUT	CHANNEL 6
5		
6	INPUT	ACTIVATION
7	INPUT	CHANNEL 1
8	INPUT	CHANNEL 2
9	INPUT	CHANNEL 3
10	INPUT	CHANNEL 4

KEY PARALLEL

S.E.C.I. Key Connector

Pin	Direction	Signal
-----	-----------	--------

NV10 BANKNOTES READER

NV4/5 Banknotes Reader Connector

Pin	Direction	Signal
-----	-----------	--------

1	-	+12 VDC
2	-	GND
3	OUTPUT	OUT1
4	OUTPUT	AVAILABILITY
5	INPUT	CREDIT
6	INPUT	CSA
7	INPUT	KEY INSERTED

IVO/125

1	INPUT	CHANNEL 1
2	INPUT	CHANNEL 2
3	INPUT	CHANNEL 3
4	INPUT	CHANNEL 4
5	INPUT	ENABLING 1
6	INPUT	ENABLING 2
7	INPUT	ENABLING 3
8	INPUT	ENABLING 4
9		
10	INPUT	ALARM
11	-	+12 VDC
12	-	GND
13		+12 VDC
14		
15		

IVO/125

Banknote reader connector IVO (SIGNAL)

Pin	Direction	Signal
1		
2	-	GND
3		
4		
5	INPUT	CHANNEL 1
6		
7	INPUT	CHANNEL 4
8	INPUT	CHANNEL 3
9	INPUT	CHANNEL 2
10		

DISP1, DISP2

Banknote reader connector IVO (POWER)

Pin	Direction	Signal
1		
2	OUTPUT	ENABLING
3		
4		
5		
6		
7	-	+24 Vdc
8	-	GND
9		
10		

BOX PROG

DISPLAY 1, 2 connector

Pin	Direction	Signal
1	-	GND
2	-	+ 5 Vdc
3	-	CONTRAST
4	OUTPUT	RS
5	OUTPUT	RW
6	OUTPUT	E
7...14	I/O	D 0...7
15	-	BACKLIGHT

Programming keyboard connector

Pin	Direction	Signal
1	INPUT	KEY -
2	INPUT	KEY +
3	INPUT	KEY OK
4	-	COMMON

KEYS

Keyboard connector

Pin	Direction	Signal
1	INPUT	KEY +
2	-	COMMON
3	INPUT	KEY OK

EN

RS232/PRINTER

Printer connector

Pin	Direction	Signal
1		
2		
3	OUTPUT	TX
4		
5	-	GND
6		
7		
8	INPUT	CTS
9		

SERVIZIO, LIBERO

Relay connectors

Pin	Direction	Signal
1	-	COMMON
2	-	NC
3	-	NO

IN SUPPLY

Transformer connector

Pin	Direction	Signal
1	-	26 Vac
2	-	26 Vac
3	-	18 Vac
4	-	18 Vac

RESET CARD

Card dispenser interface connector

Pin	Direction	Signal
1	OUTPUT	RESET CARD
2	-	GND

AL-HP1, AL-HP2, AL-HP3, AL-HP4

HP1, HP2, HP3, HP4

Hoppers supply connectors

Pin	Direction	Signal
1	-	+ 12 Vdc
2	-	GND
3	-	+ 24 Vdc

Hoppers interface connectors

Pin	Direction	Signal
1	INPUT	EMPTY
2	INPUT	COIN OUT
3	INPUT	ALARM
4	OUTPUT	COMMAND

PC / THERMO

Terminal connector

Pin	Direction	Signal
1		
2	OUTPUT	TX
3		
4		
5	INPUT	RX
6	OUTPUT	TX
7	-	GND
8	-	+ 5 V

13.3 Decommissioning and disposal

At the end of its life the product must be decommissioned and sent to a disposal centre.

Remove the machine from its installation place, empty all coins and remove the power cable. **Contact SUZOHAPP to collect the decommissioned machine. Call the following telephone number: +39 02/95781111.**

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



Please read the following information carefully.

EN

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.

These machines fall within the scope of legislative decree 151/2005 annex 1B article 2 section 1, since they are:

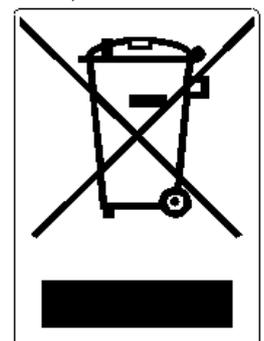
7.6 Coin / token machines

10.2 Automatic dispensers of cash or products

In brief:

- These machines must not be disposed of as normal waste but rather be separately collected
- 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
- Collection centres for waste electronic and electrical equipment (WEEE) have been created. 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



The following sanctions are established if this waste is disposed of unlawfully:

15. Pursuant to article 6, section 1, letter b), a dealer that does not accept the return of a used electrical or electronic equipment for free will incur a monetary sanction of Euro 150 to Euro 400 for each device that is not accepted or is accepted for a fee
16. A manufacturer that does not organise a separate collection system for professional WEEE as per article 6 - section 3 and a system for returning and sending, treating and recycling the WEEE, pursuant to articles 9 - section 1 and 9 - section 1, 11 - section 1 and 12, sections 1, 2 and 3, without prejudice to the agreements signed pursuant to article 12 - section 6, will incur a monetary sanction of Euro 30,000 to Euro 100,000
17. A manufacturer that after August 13, 2005 does not provide the financial guarantee established by article 11 - section 2 or 12 - section 4 when the electrical or electronic device enters the market, will incur a monetary sanction of Euro 200 to Euro 1,000 for each device which enters the market
18. A manufacturer that does not provide instructions for the use of WEE pursuant to article 13- section 1 will incur a monetary sanction of Euro 200 to Euro 5,000
19. 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
20. A manufacturer that after August 13, 2005 launches on the market WEE without the identification or symbol set out by article 13 - sections 4 and 5 will incur a monetary sanction of Euro 200 to Euro 1,000 for each device that enters the market. The same monetary sanction applies if the identification or symbol is not conforming with the requirements set out by article 13, sections 4 and 5
21. A manufacturer that launches on the market a WEE without being registered with the Chamber of Commerce pursuant to article 14- section 2 will incur a monetary sanction of Euro 30,000 to Euro 100,000
22. A manufacturer that does not communicate the information established by article 13, sections 4 3 5 to the national register of subjects obliged to dispose of WEEE within the terms established by article 13, section 8 can incur penalties
23. 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

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