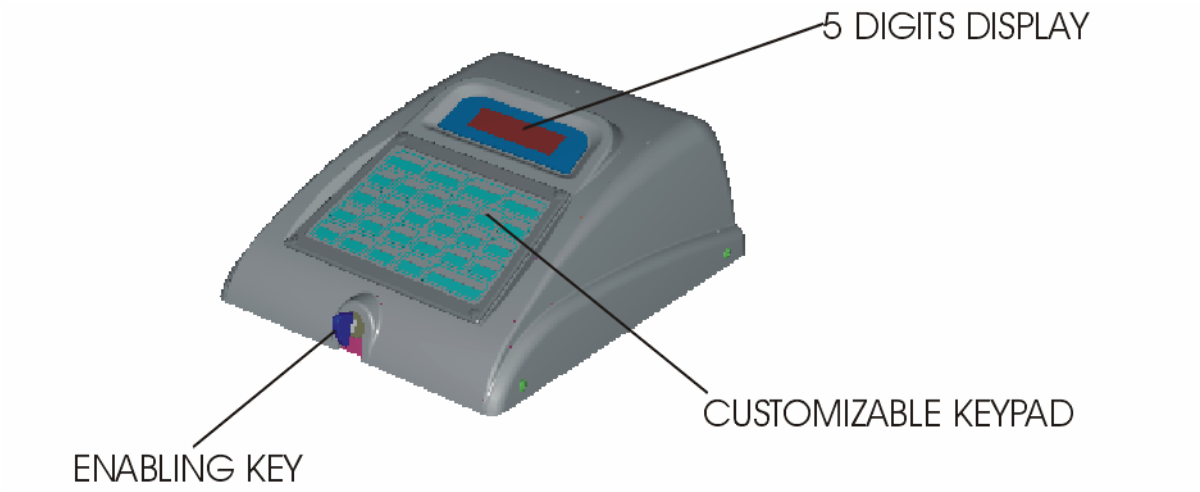
CATERPAY

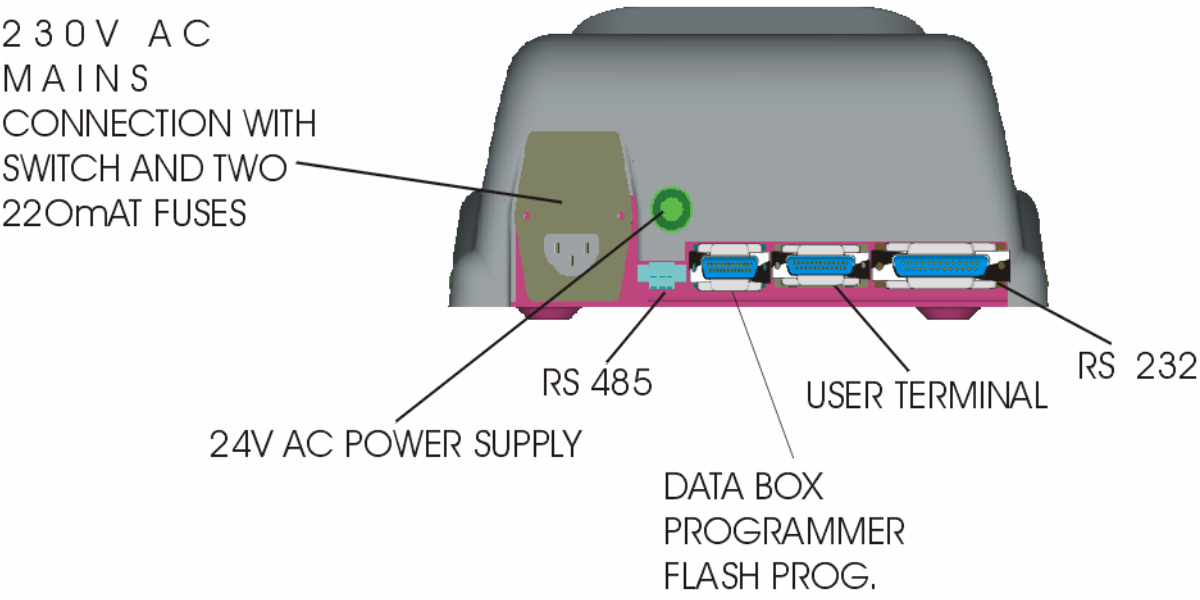
Release 1.1 - September 2003

CONTENTS

1. TECHNICAL DATA

POWER SUPPLY VOLTAGE	:	230 VAC 50-60Hz 24 VDC
ABSORBED POWER	:	13VA (15VA max)
OPERATION	:	with contactless key/card
COMMUNICATION WITH KEY	:	Radio Frequency 125 KHz





N.B. The RS-232 and RS-485 are interchangeable and require the replacement of an internal card.

2. GENERAL SYSTEM FEATURES

2.1. COMPOSITION OF THE SYSTEM

- The system **ZIP Caterpay** is composed of two parts:
- the ***Cash Register*** ;
- the ***User Terminal***.

- The ***Cash Register*** consists of:
- a 16 x 2 characters LCD display;
- a 27-key + 27-LED keypad;
- a key-operated switch;
- on/off switch (located on back of register);
- 2 line x 20 character column display (optional).

- The ***User Terminal*** consists of:
- a 16x2 characters display;
- a key/card reader.

- Keypad description:

TOKEN		**F1**	**F2**	**CANCEL**	
7	**8**	**9**	**Sel. 1**	**Sel. 2**	**Sel. 3**
4	**5**	**6**	**Sel. 4**	**Sel. 5**	**Sel. 6**
1	**2**	**3**	**Sel. 7**	**Sel. 8**	**Sel. 9**
0	**.**	**C**	**Sel. 10**	**ENTER**	

Layout of keys on the keypad.

The 27-key keypad is subdivided as follows:
- 10-key numerical keypad (0..9) (allows to type the price of the selected choice expressed in hundredths);
- keypad with 10 selection choices (the price of the selection is already programmed in the cash register by means of the programmer);
- confirm key (ENTER) (if the entire price is typed, this must be followed by the ENTER key);
- cancel key (CANCEL);
- numerical keypad clear key (C) (it cancels any mistakenly entered amount, which has been shown on the display. This must be done before pressing the ENTER key);
- Token-recording key (TOKEN);
- the keys F1, F2 and . are not currently used;
- the 10 Selection, ENTER, CANCEL and TOKEN keys include a led that can be lit up.

2.2. FUNCTIONAL FEATURES

The ***Cash Register*** includes the following features:

- It allows sales using the credit previously charged in a ***sale key/card.***

- It has 10 selection keys, the corresponding prices of which can be programmed by using the ***programmer***. For each selection, 4 different prices can be set: "with key" (or discount level 0), "discount level 1", "discount level 2" and "discount level 3".

- It has:
  - a 10-key numerical keypad (0..9);
  - a "clear key"(C) that can be used if a wrong number is typed;
  - an ENTER key (Note: The price must always be expressed in hundredths).

- It allows to disable 10 sale keys/cards by writing the corresponding number in the "Black List" using the ***programmer***.

- It can be programmed using the ***programmer***.

- It memorizes the sale statistics which can be collected with the ***data-box*** or with a portable PC in which appropriate software has been installed.

3. SALE AND CHARGING METHODS

3.1. SALE METHOD

The ***Cash Register*** allows to sell using the credit previously charged in a sale key/card.
The operator can type the price of the choice using the numerical keypad or he/she can press one of the 10 selection keys.
The price of the 10 selections can be programmed using the ***programmer*** in the "PROGRAMMING" menu – "SALE PRICES". In particular, it is possible to program 4 different prices for each selection using the sales tables "with Key", "discount level 1", "discount level 2", and "discount level 3".

3.2. INSERTION OF A SALE KEY/CARD

When a sale key or card is inserted in the reader of the User Terminal, the following is displayed on the first line of the LCD:
- the number of the key/card and the credit: the codes of the key/card are compatible with those programmed in the Cash Register;
- "EVENT 1": the key/card inserted has its credit area altered (statistic S48 is updated);
- "EVENT 2": the key/card inserted has codes that are not compatible with those programmed in the Cash Register (statistic S49 is updated);
- "EVENT 6": the key/card inserted has an erroneous key function code (statistic S53 is updated);
- "EVENT 7": the key/card inserted has more credit than the usable credit programmed in the Cash Register (statistic S54 is updated).

To view the messages it is necessary to enable the "ERROR MESSAGES" in the menu "OTHER PARAMETRS".

3.3. SALE SEQUENCE

The sale sequence is the following:

- The user/client inserts the key/card in the reader of the User Terminal**.**
- The number and the credit of the sale key/card are displayed on the first line of the LCD display of the Cash Register and of the User Terminal (e.g. "n.123456 20,50").
- According to the choice made by the customer, the operator presses a selection-key (among the 10) or he/she types the price of the choice in hundredths (in the second case the numerical information representing the price must be followed by the ENTER key).
  When a selection-key is pressed, on the second line of the display the name and the price of the selection are shown for one second. If the price is typed, this price is shown on the second line of the LCD display.
- If there is enough credit in the sale key/card, the price calculated in the previous point is deducted from the credit in the sale key/card.
- If the deduction of credit from the sale key/card takes place properly:
  a. the selection-key led or the ENTER-key led (in case that the price was typed) will light up;
  b. the buzzer will emit a beep;
  c. the credit left in the sale key/card will be shown on the first line of the LCD display.
- If, on the other hand, there is not enough credit in the sale key/card, on the second line of the display the message "No Credit" is shown.
- The sale key/card can be extracted or a new sale sequence can start only after the display shows the left credit.

It is possible to check the credit left in the sale key/card by simply inserting the key/card in the User Terminal.
If there is no key/card inserted in the reader of the User Terminal, it is possible to check the name and the price of a selection (for one second) by pressing the selection-key (the displayed value is the one programmed in the table "Sale Prices" – "with key").

3.4. CANCEL KEY OPERATION

The CANCEL-key is used by the operator whenever he/she may have pressed the wrong selection-key or when he/she has typed in the wrong amount and has already pressed the ENTER-key. Pressing this key, in fact, the amount that has been just detracted from the credit in the sale key/card is re-accredited.

This cancel operation can be used only if the sale key/card has not been extracted from the reader after the wrong sale. In fact, if the sale key/card is extracted from the reader after the sale, the possibility to re-accredit the most recent sale is cancelled.

If an error takes place during the sale key/card re-accreditation phase, the amount to be reimbursed remains in the cash register. In this case you have to extract the sale key/card and re-insert it again to complete the cancellation operation.

If the cancellation operation is successful (that is, the reimbursement of the amount takes place correctly):
a. the LED located on the cancel key will light up for an instant;
b. the buzzer will emit a beep;
c. the message "CANCEL *selection name*" or "CANCEL Various"(if the price of the selection has been typed) will be shown on the second line of the display;
d. the statistics will be reset to the value they had before the wrong sale.

To be enabled, the cancel-key must be set in the ON position in the menu "PROGRAMMING" – "OTHER PARAMETERS".

3.5. TOKEN RECORDING

Token means a "credit" object that the user/customer physically hands to the operator: in exchange for this token a sale (e.g. the complete meal) can be given to the customer.
The TOKEN-key allows to record (in the statistic S11 "TOKEN NUMBER") the number of tokens that the operator has collected.

3.6. FREE SALE KEY

The free sale key/card is a special key/card which allows to make a purchase without deducting the price from the credit of the key/card (it can also be 0).
To enable the free sale key/card it is necessary to program ON in the menu "PROGRAMMING" – "OTHER PARAMETERS".
When a free sale key/card is inserted on the reader of the User Terminal and it is enabled, on the first line of the LCD display is shown the number of the key/card followed by the message "Free".
After the sale has taken place:
a. the selection-key or the ENTER key (in case that the price was typed) led will light up;
b. the buzzer will emit a beep.
Sales carried out through the use of a free sale key/card are accounted for in the statistic S8.

3.7. KEY/CARD CHARGING METHODS

3.7.1. CHARGING THE KEY/CARD BY MEANS OF A CHARGE KEY

The charge key is a special key that allows to charge the sale key/card with a predetermined amount.
The charge key can be used in a Cash Register.
In order to charge a sale key/card the operator has to:
a. ensure that the item "CHARGE KEY" of the "OTHER PARAMETER" menu in the "PROGRAMMING" menu is programmed ON;
b. insert the charge key in the reader of the User Terminal: if there are charges left in the charge key, the number of charges will be displayed for 3 seconds followed by the value of each single charge; otherwise nothing will be displayed;
c. extract the charge key after the charge amount has been displayed and insert the sale key/card that has to be charged: the charge amount will be transferred to the sale key/card.
   Note. If a sale key/card is not inserted within 30 seconds from the time the charge key/card is extracted, the charge amount will be cancelled; the amount will be accounted in statistic S58.

NOTES:
While the number of charges is displayed, the charge key can be removed without decrementing the number of charges (so this is a way to check the number of charges left in the charge key).
If the sale key/card that has to be charged contains credit equal or greater than the maximum chargeable credit, the sale key/card will not be charged. In this case, the amount available in the sale key/card will be displayed and the key/card can be used normally. If the credit in the sale key/card drops below the maximum chargeable credit after a sale, the amount of the charge will automatically be credited to the sale key/card. Otherwise, when the sale key/card is removed the amount of the charge will remain in the Cash Register, and that amount can be used to charge another sale key/card (which has a credit lower than the maximum chargeable amount).

3.7.2. CHARGING THE SALE KEY/CARD BY MEANS OF A PROGRAMMER

The sale keys/cards can also be charged using the ***programmer***: in fact, in the "KEYS HANDLING" menu it is possible to establish the new credit to be charged in the sale key/card.

3.7.3. CHARGING THE SALE KEY/CARD USING THE CASH REGISTER KEYPAD

The sale key/card can be recharged using the keypad of the Cash Register entering the TICKET menu.
In order to enter the TICKET menu, press the F1 key and digit the PIN (if it isn't programmed digit 00000). Then program the amount to charge in the key/card and insert the key/card in the reader of the User Terminal.
The amount charged in the key/card is recorded in the statistics called "TICKET AMOUNT".

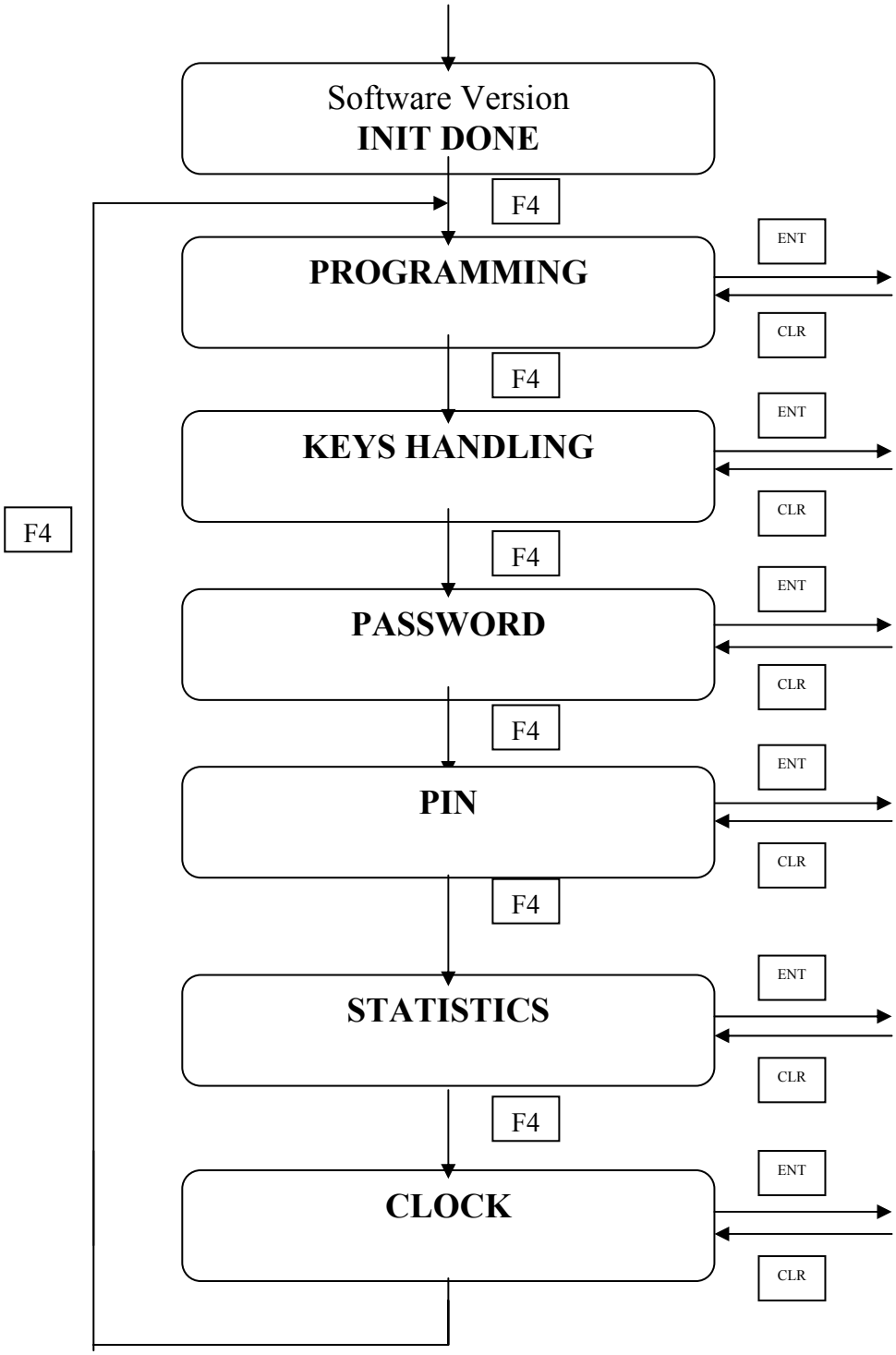
3.7.4.OTHER WAYS OF CHARGING SALE KEY/CARD

The sale key/card can also be charged in the following ways:
- through the use of the PC interface;
- through wall or tabletop key chargers;
- through automatic distributors equipped with validators or bill acceptors.

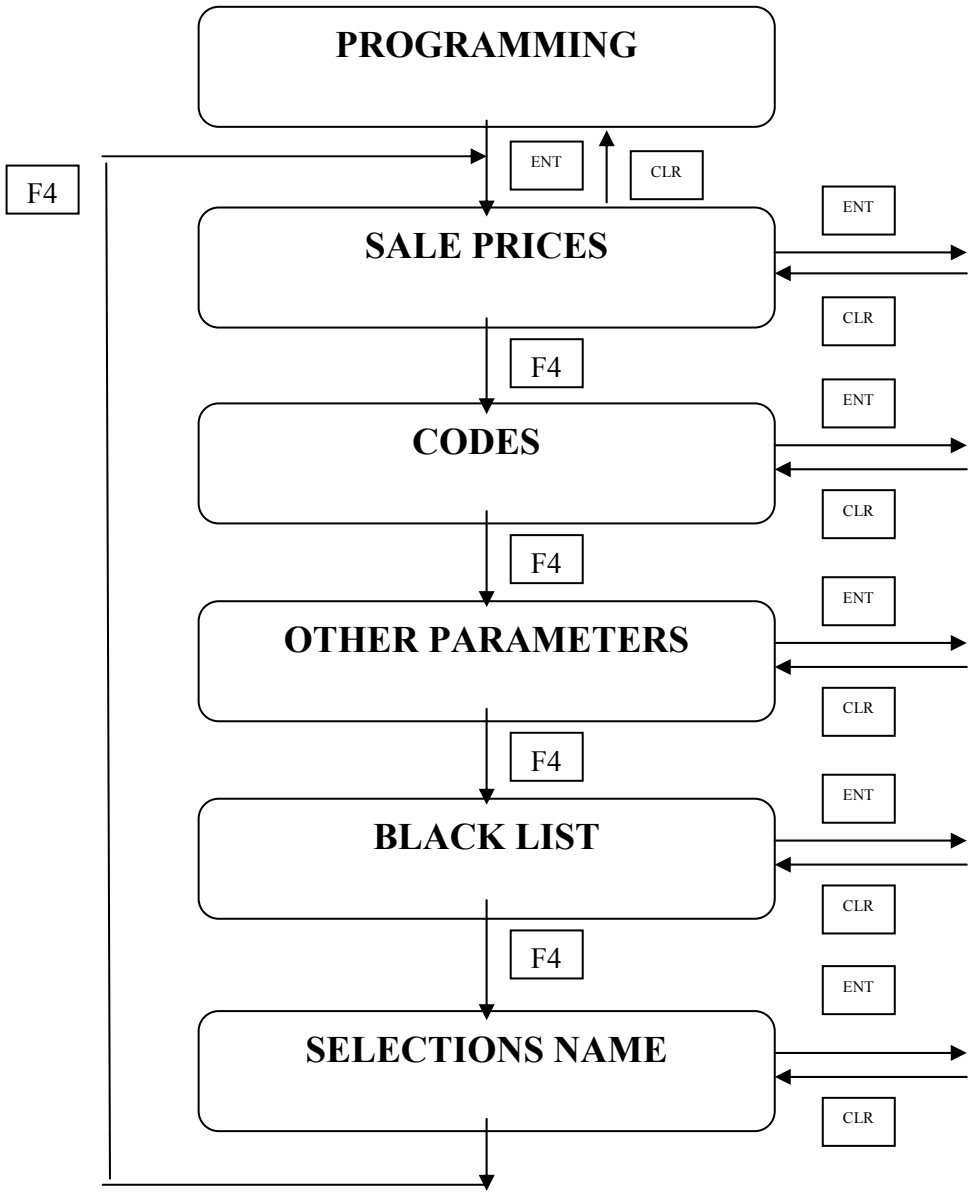
4. SYSTEM PROGRAMMING

The programming of the ZIP Caterpay system can be done using the ***Programmer*** (connected to the D-SUB 9 pin connector in the back of the Cash Register).

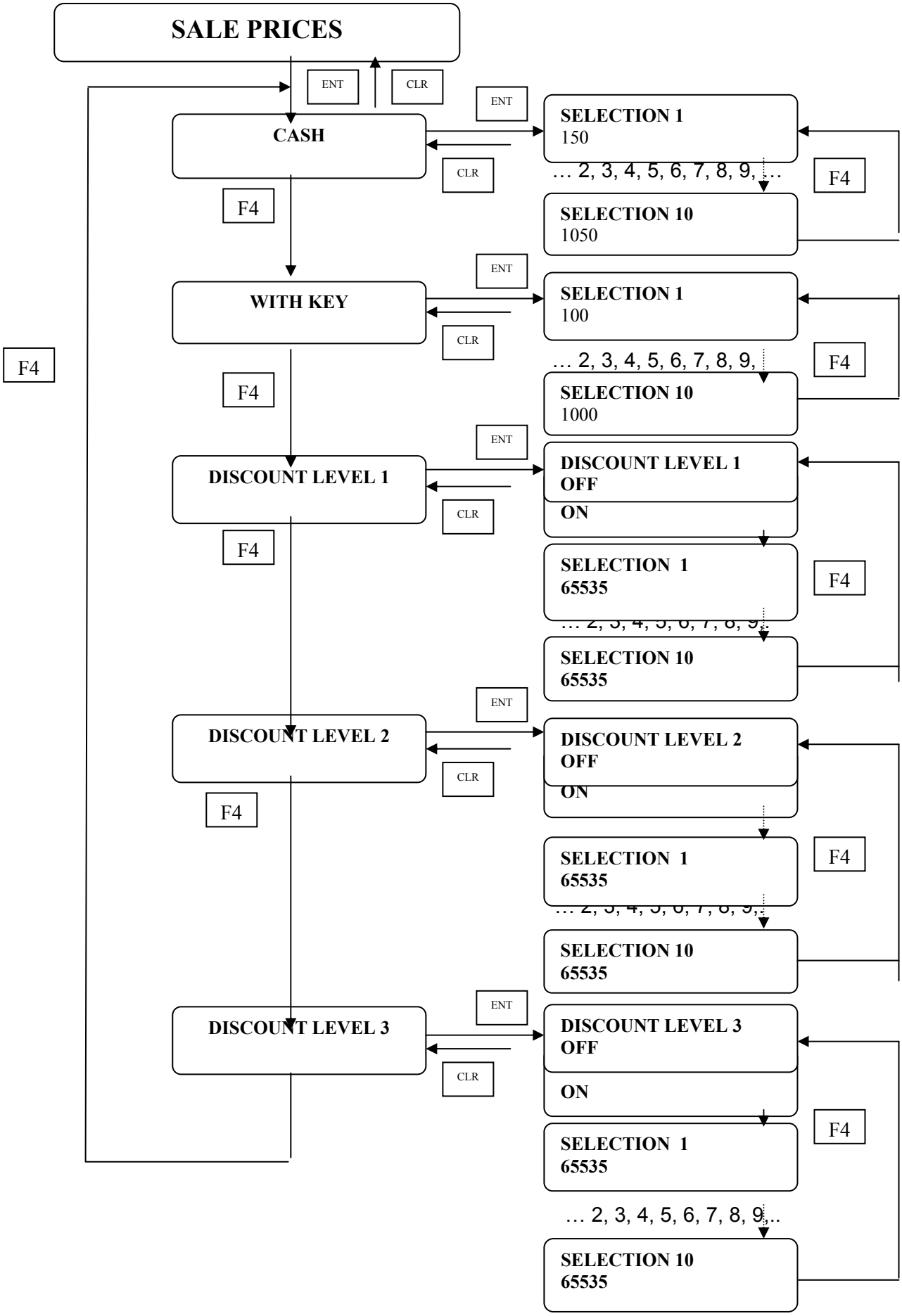
PROGRAMMER CONNECTED



4.1. PROGRAMMING



4.1.1. SALE PRICES



4.1.2. CODES

The **ZIP Caterpay** contains some protective codes which make ***key/cards*** incompatible if they are not programmed with the same codes. If a key/card with incompatible codes is inserted in the reader of the User Terminal and if the "ERROR MESSAGES" in the menu "OTHER PARAMETERS" are enabled, the message "EVENT 2" will be shown on the LCD display.

- **DEPARTMENT CODE (default value = 001)**

This is composed of 3 numbers (max 255) and its purpose is to avoid the transfer of credit among different departments of the same company.
If the department code is programmed to 000 in the key/card or in the Cash Register it is not verified (See Table 1).

- **CUSTOMER CODE (default value = 000001)**

This is composed of 5 numbers (max 65535) and its purpose is to avoid the transfer of credit among different companies served by the same operator.
If the customer code is programmed to 00000 in the key/card or in the Cash Register it is not verified (See Table 1).

- **OPERATOR CODE (default value = 00000001)**

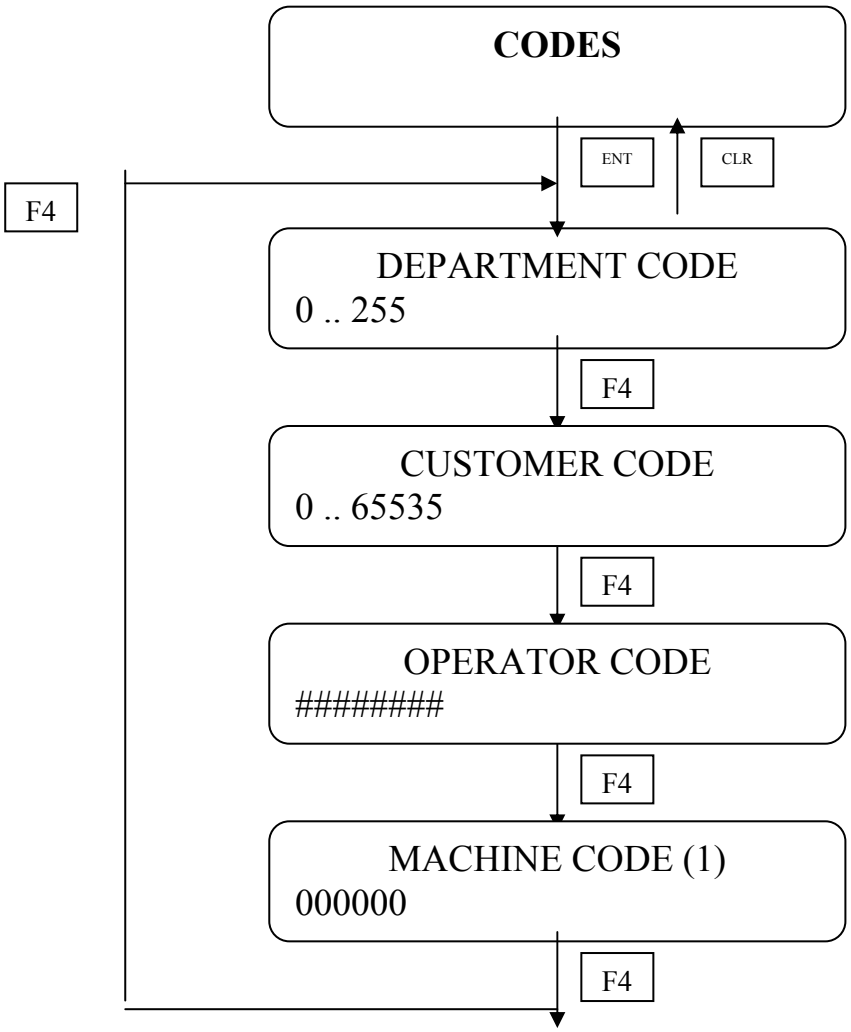
This is composed of 8 numbers (max 99999999) and its purpose is to not accept keys/cards that do not belong to the company owner of the Cash Register.
When a key/card, with an operator code different from the one programmed in the Cash Register, is inserted in the reader of the User Terminal, the key/card is not accepted (the credit is not displayed).

Table 1

	OPERATOR CODE	CUSTOMER CODE	DEPARTMENT CODE
CODES IN THE KEY/CARD	12345678	12345 OR 0	123 OR 0
COMPATIBILITY CONDITION	SAME	SAME OR ONE OF TWO = 0	SAME OR ONE OF TWO = 0
CODE IN THE CASH REGISTER	12345678	12345 OR 0	123 OR 0

- **MACHINECODE**

It is an identification code of the Cash Register: it isn't an access code. It consists of six alphanumeric characters and is collected in the statistics.



(1) THE MACHINE CODE CAN BE PROGRAMMED WITH ALFANUMERIC SIMBOLS

FOR THIS PURPOSE PRESS F2 AND F3 IN THE PROGRAMMER

4.1.3. OTHER PARAMETERS

- **CHARGEABLE CREDIT ("MAX.CHARG.CREDIT")**

This represents the credit limit chargeable in the key/card (max. 65535). In fact, if in the key/card there is a credit equal or greater than this value, it isn't possible to recharge the credit of the key/card. This value is programmed in hundredths.

- **USABLE CREDIT ("ABSOL.MAX.CREDIT")**

This represents the maximum credit that a key/card can have to be used in the ZIP Caterpay (programmable up to 65535 hundredths). If a key/card with credit greater than this value is inserted in the reader of the User Terminal, the key/card will be refused, and if the "ERROR MESSAGES" are enabled the message "EVENT 7"will be shown on the display.

- **CANCELLATION**

It enables/disables (ON/OFF) the CANCELLATION key.

- **CREDIT RESET ("OVERPAID")**

It enables/disables (ON/OFF) the credit (left in the Cash Register) reset.
If this parameter is ON, after 3 minutes any credit left in the Cash Register (and shown on the display) is reset to zero. The amount reset to zero is memorized in statistic S5 "OVERPAID".

- **ACOUSTIC ALARM ("BUZZER")**

It enables/disables (ON/OFF) the acoustic alarm.

- **ERROR MESSAGES**

It enables/disables (ON/OFF) the error messages.

- **STATISTICS**

It can be enabled or disabled. If this parameter is enabled, a check is carried out on the integrity of the data collected in the statistics. If an error is detected and "STATISTICS" has been programmed ON, the system is blocked until statistics are collected using **databox**. If this parameter is disabled, the system continues to function even if an error has been detected.
NOTE: The statistics are collected regardless of the value of this parameter.

- **CHARGE KEY**

It enables/disables (ON/OFF) the use of the charge key.

- **FREE KEY ENABLE**

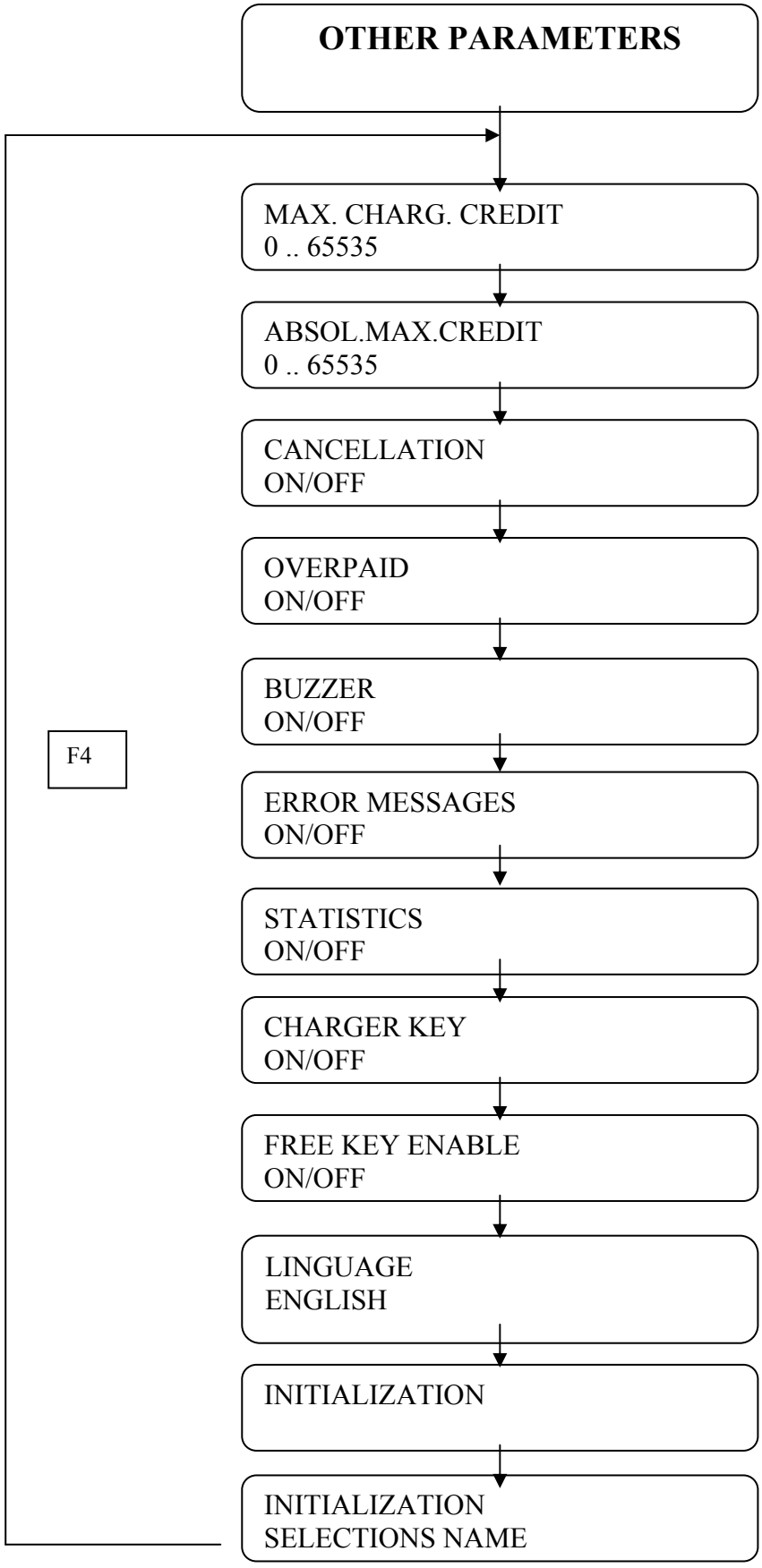
It enables/disables (ON/OFF) the use of the free sales key.

- **LANGUAGE**

This parameter allows to choose the language in which messages are shown.

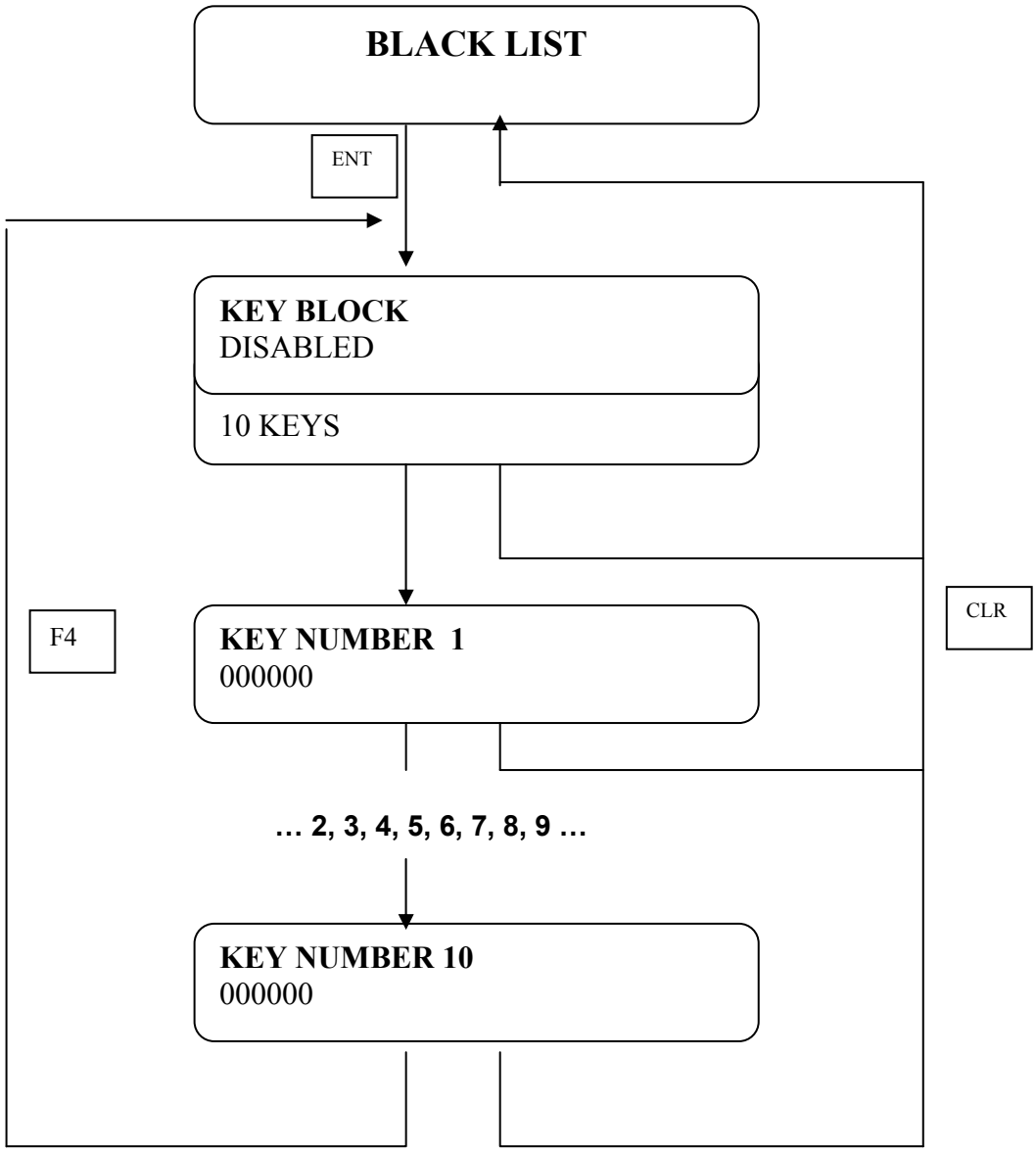
- **INITIALIZATION**

This command allows to initialize all parameters with default values.


OTHER PARAMETERS
MAX. CHARG. CREDIT
0 .. 65535
ABSOL.MAX.CREDIT
0 .. 65535
CANCELLATION
ON/OFF
OVERPAID
ON/OFF
BUZZER
ON/OFF
F4
ERROR MESSAGES
ON/OFF
STATISTICS
ON/OFF
CHARGER KEY
ON/OFF
FREE KEY ENABLE
ON/OFF
LINGUAGE
ENGLISH
INITIALIZATION
INITIALIZATION
SELECTIONS NAME

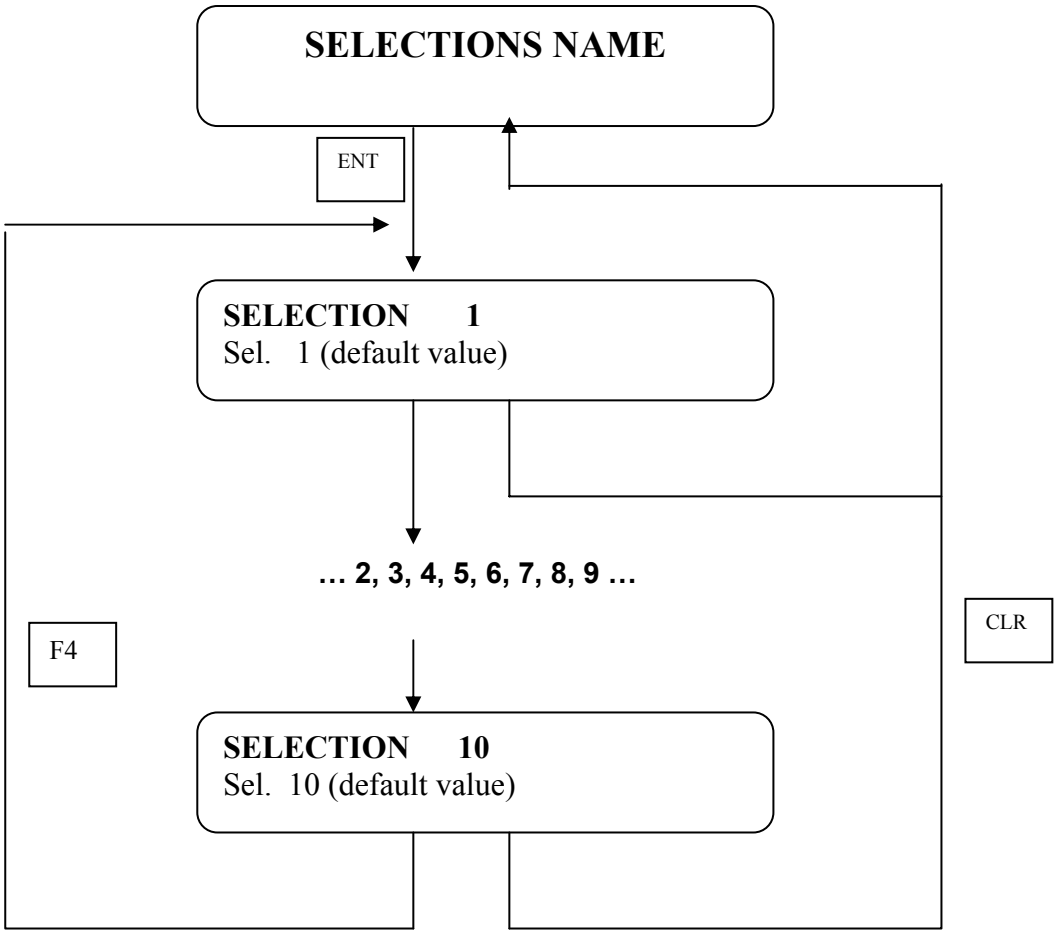
4.1.4. BLACK LIST

The "Black List" contains the list of the keys/cards numbers which have been disabled.
The "Black List" can be enabled or disabled.
If "KEY BLOCK" is "DISABLED", the "Black List" isn't managed.
On the contrary, if "KEY BLOCK" is programmed to "10 KEYS" and "ERROR MESSAGES" is ON, inserting a key/card belonging to the "Black List", "EVENT 13" is shown on the LCD display, the statistic S60.

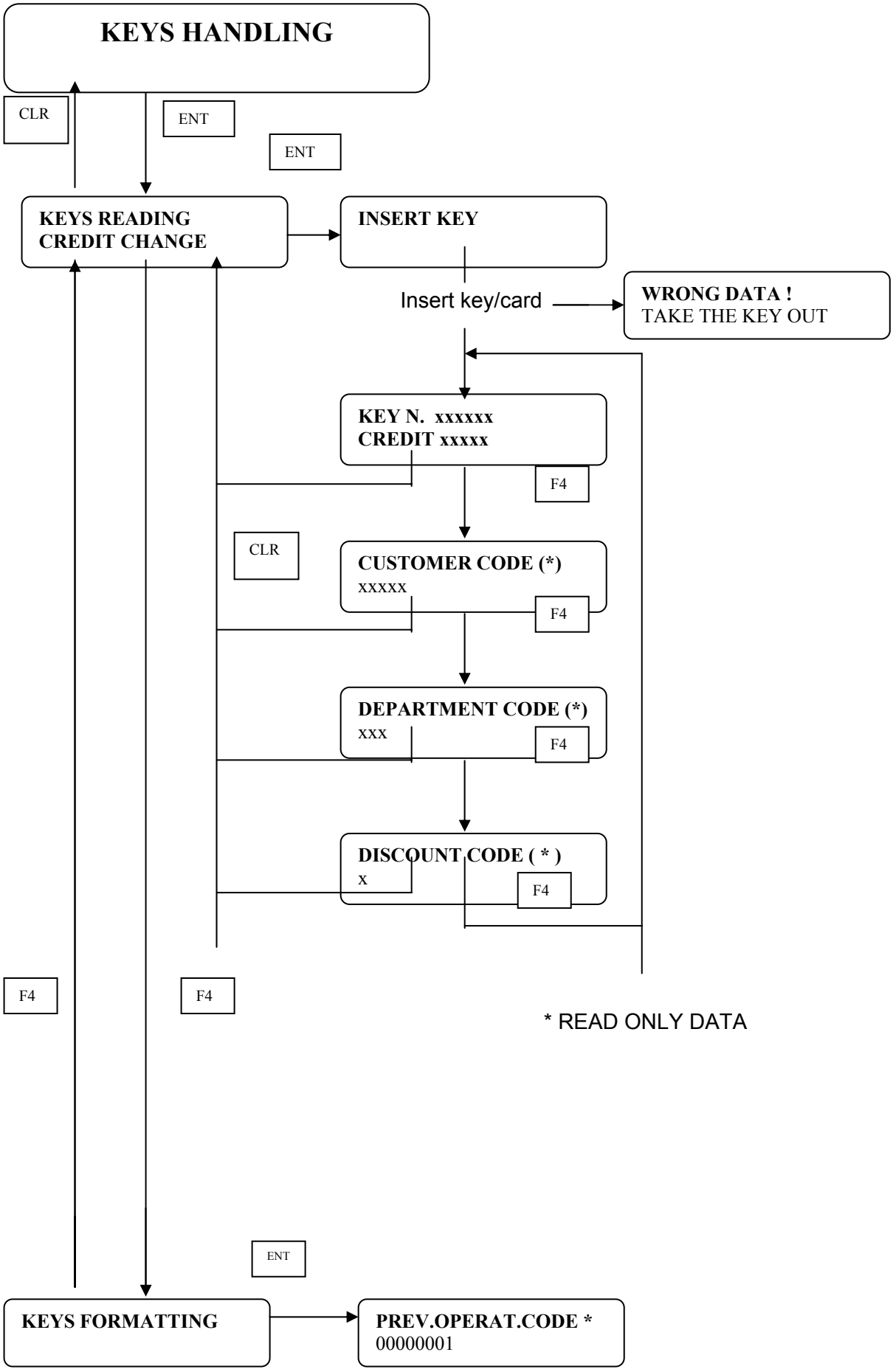


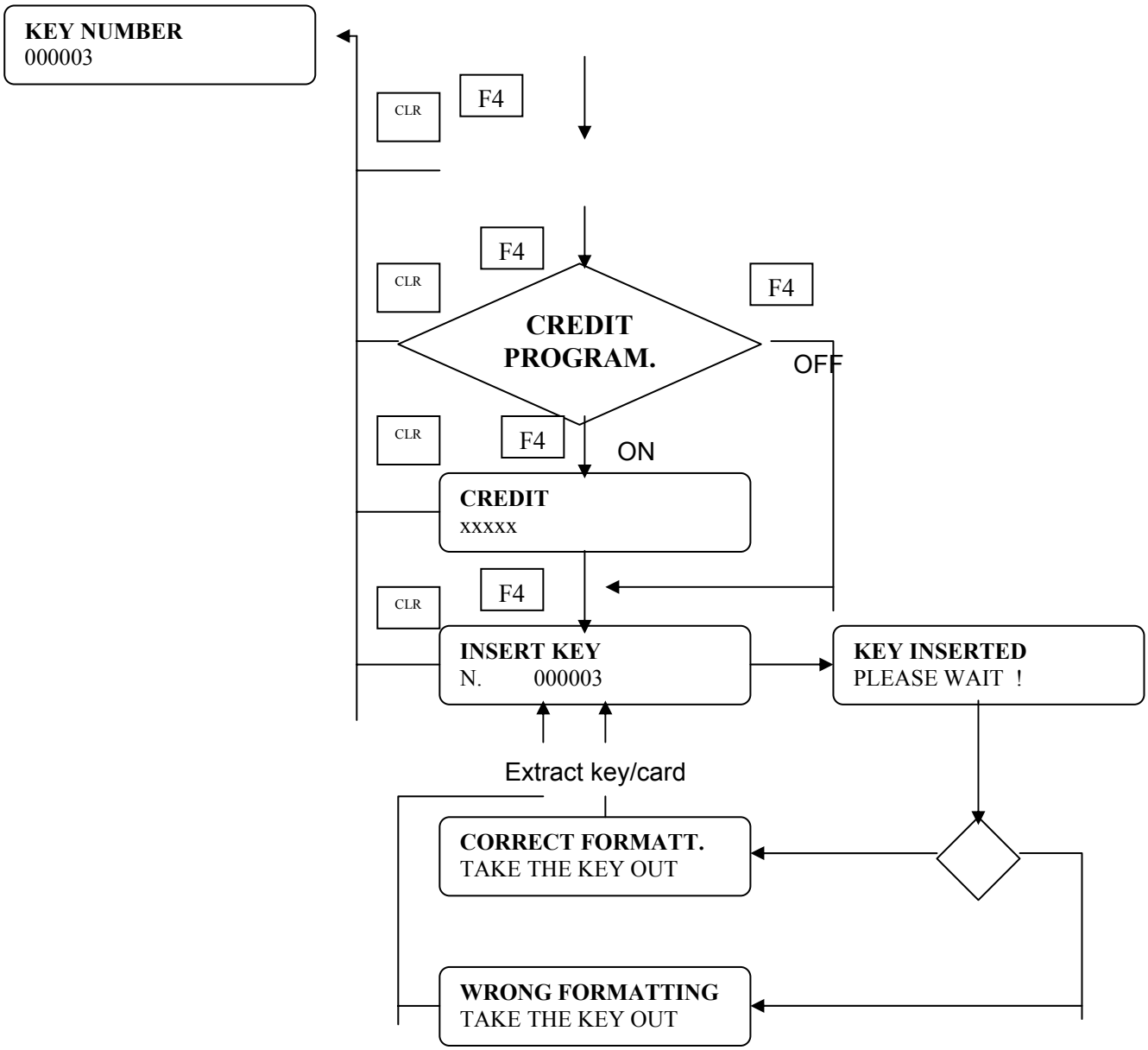
4.1.5. NAMES OF THE SELECTIONS

This menu allows to program the name of the 10 selections; each name is composed of 8 alphanumeric characters.



4.2. KEYS HANDLING



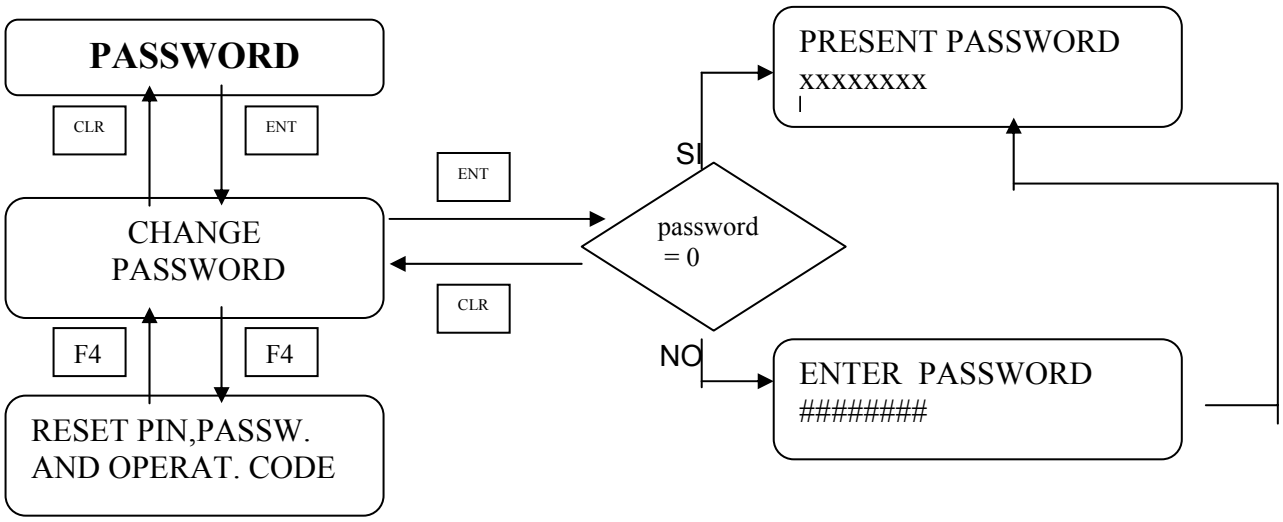


*THE "PREVIOUS OPERATOR CODE" IS THE OPERATOR CODE OF THE KEY/CARD BEFORE FORMATTING.
IF THE KEY/CARD OPERATOR CODE IS DIFFERENT FROM THE ZIP CATERPAY OPERATOR CODE OR FROM THE PREVIOUS OPERATOR CODE, INSERTING THE KEY/CARD INTO THE READER ON THE DISPLAY WILL BE SHOWN:

WRONG DATA !
TAKE THE KEY OUT

4.3. PASSWORD

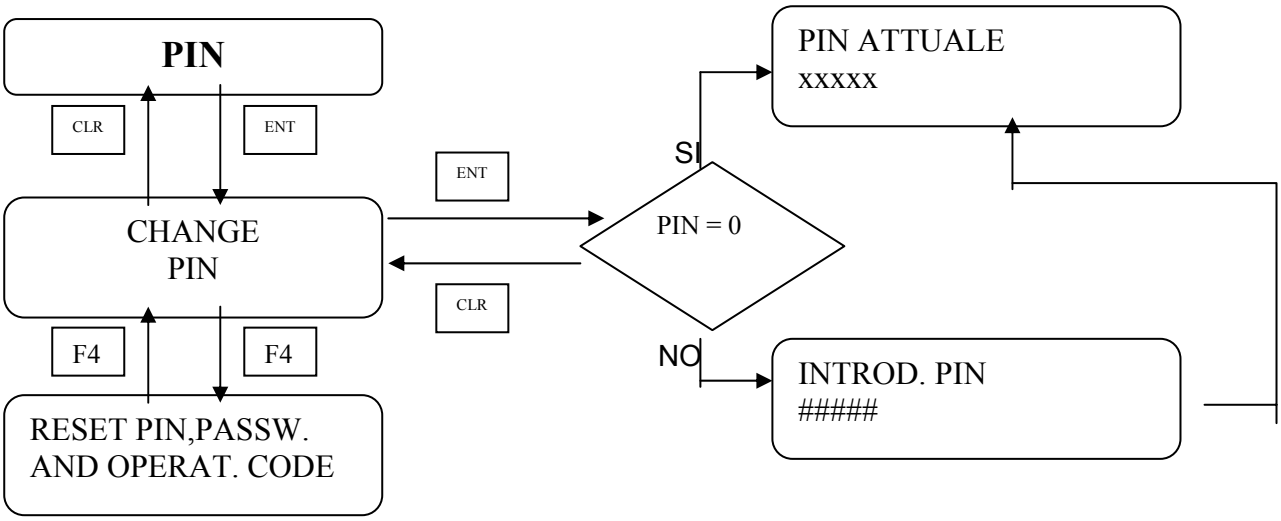
The **Zip Caterpay** allows to program a password that is composed of 8 numbers (max 99999999).



CHANGE PASSWORD allows to program the password.
If the password is programmed, it is required when you try to modify the operator code, the date and time of the Cash Register, or the credit of a sale key/card or the number of charges of a charge key.
RESET PIN,PASSW., AND OPERAT. CODE allows to set the password to 00000000, the pin to 00000 and the operator code to 00000001.

4.4.PIN

Lo **Zip Caterpay** allows to program a PIN code that is required when you want to charge credit in a key/card using the keypad of the Cash Register.
It is composed of 5 numbers (max 65535).



The PIN is required when you enter the "TICKET" menu using F2 key.
CHANGE PIN allows to modify the pin number.
RESET PIN, PASSW. AND OPERAT. CODE allows to set the password to 00000000, the pin to 00000 and the operator code to 00000001.

4.5. STATISTICS

The **Cash Register** internally memorizes data concerning sales, system configuration and anomalous events that may have occurred during the Cash Register's operation.
The data can be collected by using:
1. a ***databox*;**
2. a PC in which appropriate special software has been installed.

1. Collection of statistics starts automatically connecting the **databox** to the appropriate connector and ends after approximately 3 seconds. The end of data collection is indicated by the red warning light fitted on the databox. It is important to remember that the Cash Register statistics are reset after collection.
If two consecutive statistics collections are made from the same Cash Register within two minutes, the collection is not carried out and the message "EVENT 10" is displayed.
The data collected with the databox are shown in the following table.

2. See instructions enclosed with software.

LIST OF RETRIEVED STATISTICS

Statistic	**Description**
Main Statistics	
S1	(Coins Amount) Total cash with coins
S2	(Bill Amount) Total cash with banknotes (not used)
S3	(Cash Vends) Total cash sales (not used)
S4	(Fail. Cash Vends) Total cash for failed sales(not used)
S5	(Overpaid) Cash for surcharge (credit left in machine due to a failed cancellation)
S6	(Key Vends) Cash for sales with key
S7	(Failed Key Vends) Cash for failed sales with key (not used)
S8	(Free Vends) Failed cash for free sales
S9	(Discounts) Failed cash for discounts
S10	(Programmed Cred.) Total credit charged into the keys by means of programmer or charge key.

List of Coins	
S11	Token number
Ticket Amount	
Detailed statistics of sales with key	
S35	(Amounts out Tab.) Total cash for prices not included in the table
S36	(Vends Num. Pr. 1) Selection 1: Number of sales with key
S37	(Vends Num. Pr. 2) Selection 2: Number of sales with key
S38	(Vends Num. Pr. 3) Selection 3: Number of sales with key
S39	(Vends Num. Pr. 4) Selection 4: Number of sales with key
S40	(Vends Num. Pr. 5) Selection 5: Number of sales with key
S41	(Vends Num. Pr. 6) Selection 6: Number of sales with key
S42	(Vends Num. Pr. 7) Selection 7: Number of sales with key
S43	(Vends Num. Pr. 8) Selection 8: Number of sales with key
S44	(Vends Num. Pr. 9) Selection 9: Number of sales with key
S45	(Vends Num. Pr.10) Selection 10: Number of sales with key

Diagnostic statistics	
S46	SF (latest error)
S47	E0 (progressive number of acquisitions)
S48	E1 (number of times a key with altered credit area has been inserted)
S49	E2 (number of times a key with mistaken codes has been inserted)
S50	E3 (number of keys/cards used)
S51	E4
S52	E5
S53	E6 (number of times a key with mistaken function code has been inserted)
S54	E7 (number of times a key with credit grater than usable credit has been inserted)
S55	E8 (not used)
S56	E9 (number of key writing errors)
S57	E10 (number of databox connection errors)
S58	E11(failed credit with charge key)
S59	E12 (number of times writing performed but not checked)
S60	E13 (no. of insertions of a key belonging to the Black List (with Black List enabled)
S61	E14 (number of resets in the credit area)
S62	E15 (not used)
S63	SA (number of key writing)
S64	SB (number of key readings)
S65	SC (number of power resets)
S66	SD (number of power failures)
S67	SE (system programming status)

5. INTERPRETATION OF STATISITICS DISPLAYED USING SW BOX 32

- **MAIN STATISTICS**

1 – Total amount: not used (must be at 0).

2 – Key revalue: this is a negative number equal to the overpaid value.

3 – cash revenue
- **sales:** not used (must be at 0);
- **failed sales:** not used (must be at 0);
- **overpay:** indicates the sum of credits left in the Cash Register through improperly performed cancellations. Basically this amount was collected from the sale keys/cards and it was not possible to re-accredit it through cancellation operations.

4 – Key sales
- **sales:** total sales carried out with a key/card. This amount includes sales not included in the table (that is, sales for which the amount is typed into the numerical keypad) and sales obtained by use of the Selection-keys (N.B. in this case the prices are those programmed in the menu "PROGRAMMING" – "SALE PRICES" – "WITH KEY";
- **failed sales:** not used (must be at 0).

5 – Lacked revenue special keys
- **free sales:** indicates the amount of sales carried out with a free sale key/card;
- **discounts:** indicates the sum of discounts originating from the use of sale keys/cards with a discount level of 1,2,3. The discount for a certain Selection is obtained by determining the

difference between the programmed price in the menu "WITH KEY" and the corresponding programmed price in the menu "DISCOUNT LEVEL *X*".
(In order to apply discount, the relative discount level must be enabled in the Cash Register).

6 - Key revenue
This is the difference between **sales with keys/card** and **missed revenues special keys/card.**

7 – Total revenues cash + keys
This is the sum **of overpay and key revenue.**
Basically it is the amount which in effect is detracted from the sale keys/cards.

- **KEY CHARGES**

8 - Cash
Not used.

9 - Programmer or charge key
This indicates the amount credited to the sale keys/cards using either the programmer or the charge key.

10 - Bonus
Not used (must be at 0).

11 – Key total credit
Not used.

12 – Key total debit
Not used.

13 – Current key balance
This is the difference between the value charged to the sale keys/cards with a **programmer or charge key/card** and the **total revenues cash + keys/cards.**

14 – Credits with charge key not carried out
This indicates the amount of recharges with a charge key/card that were not transferred to the keys/cards.

- **SALES**

15 – Cash sales
Not used.

16 – Key sales
This table indicates detailed sale statistics. For each selection the number of sales and the full price of the Selection is shown (that is the price programmed in the menu "SALE PRICES"- "WITH KEY"). The item *out table sales* indicates the total number of sales for which the price was typed in using the numerical keypad.

17 – Cash + key sales total number
It indicates the total number of sales using the 10 selection-keys.

- **CASH**

18 – Coins
- coin A: it indicates the number of tokens accounted using the TOKEN-key. The corresponding value must be 0.

- coins B,C,D,E,F,G,H: not used.

19 - Banknotes

Not used.

- **DIAGNOSTICS / BLACK LIST**

20 – Diagnostics

To see the meaning of each item listed in this table, refer to the *list of retrieved statistics* in the previous pages.

21 – Black List

This lists the number of keys/cards currently present in the Black List.
NOTE:
key 9 **:** this value indicates the number of tokens registered that can't be reset.
key 10 **:** this value indicates the amount of the sales made using keys/cards that can't be reset.

EXAMPLE OF STATISTICS COLLECTED USING SW BOX32

CONPAS - BOX32 | **File:** lastaudit.tmp | **Databox:** 2
print date: 05/11/02 | **Acquisition N,** 17 | **User:** ade*******

Progressive acquisitions: 14 | **Acquisition date:** 04.11.02 14:18 | **Precedent acq.date:** 04.11.02 13:49
Customer code: 000001 | **Machine code:** MENSA1 | **Sw.version:** code 100

1 - TOTAL AMOUNT		**0,00 (+)**
- coins	0,00 (+)	
- banknotes	0,00 (+)	
2 - KEY REVALUE		**0,00 (-)**
3 - CASH REVENUE		**0,00 (=)**
- sales	0,00 (+)	
- failed sales	0,00 (+)	
- overpay	0,00 (+)	

4 - KEY SALES		**609,00 (+)**
- sales	609,00 (+)	
- failed sales	0,00 (+)	
5 - LACKED REVENUE SPECIAL KEYS		**368,00 (-)**
- free sales	368,00 (+)	
- discounts	0,00 (+)	
6 - KEY REVENUE		**241,00 (=)**

7 - TOTAL REVENUE CASH + KEYS **241,00**

KEY CREDITS

8 - CASH	0,00 (+)
9 - PROGRAMMER OR CHARGER KEY	25,00 (+)
10 - BONUS	0,00 (+)
11 - KEY TOTAL CREDIT	**25,00 (+)**
12 - KEY TOTAL DEBIT	**241,00 (-)**
13 - CURRENT KEY BALANCE	**-216,00 (=)**

14 - FAILED CREDITS BY CHARGER KEY **0,00**

15 - Cash sales	n°	value
price line 1	0	1,50
price line 2	0	2,50
price line 3	0	3,50
price line 4	0	4,50
price line 5	0	5,50
price line 6	0	6,50
price line 7	0	7,50
price line 8	0	8,50
price line 9	0	9,50
price line 10	0	10,50
sales total number	0	
out table sales		0,00
total amount		0,00

16 - Key sales	n°	value
price line 1	10	1,00
price line 2	4	2,00
price line 3	4	3,00
price line 4	4	4,00
price line 5	4	5,00
price line 6	4	6,00
price line 7	5	7,00
price line 8	5	8,00
price line 9	5	9,00
price line 10	28	10,00
sales total number	73	
out table sales		119,00
total amount		609,00

17 - CASH + KEY SALES TOTAL NUMBER (without out table sales) **73**

18 - Coins	n°	value
coin A	57	0,00
coin B	0	0,00
coin C	0	0,00
coin D	0	0,00
coin E	0	0,00
coin F	0	0,00
coin G	0	0,00
coin H	0	0,00

19 - Banknotes	n°	value
banknote 1	0	0,00
banknote 2	0	0,00
banknote 3	0	0,00
banknote 4	0	0,00

20 - Diagnostics					
E00	14	E07	0	E15	0
E01	0	E08	0	SA	76
E02	0	E09	0	SB	20
E03	5	E10	0	SC	0
E04	0	E11	0	SD	1
E05	0	E12	0	SE	1679294520
E06	0	E13	0	SF	0
		E14	0		

21 - Black List	number		number
key 1	0	key 6	0
key 2	0	key 7	0
key 3	0	key 8	0
key 4	0	key 9	65758
key 5	0	key 10	451629

6. SERIAL PRINTER MANAGEMENT

The ZIP Caterpay allows to manage a **serial printer** in order to print data of the transactions.

Printers that can be connected:
The following EPSON serial printers can be connected to the Cash Register:
TM-T88III (thermal with cutter);
TM-U210D (impact).

Serial interface features:
Data transmission: non-synchronous serial
Flow control : XON/XOFF
Baud rate : 9600 bps
Data length : 8 bits
Parity : none
Stop bit : 1

Data printed on receipt

Heading
When the sale key/card or the free sale key/card are inserted in the reader, the heading is automatically printed (Note: If a charge key is inserted, nothing is printed).
The receipt heading consists of the **machine code** of the Cash Register (see MENSA1 in fig.1) programmed in the menu "PROGRAMMING"- "CODES" under the item "MACHINE CODE".

Data of inserted key/card
Sale key/card: the key number and the credit are printed (see fig.1).
Free sale key/card: the key number and the message "Free" are printed.
Charge key/card: nothing is printed.

Charging by means of charge key
The message "CHARGE" (see fig.1) is printed only if, when a sale key/card is inserted, there is credit in the Cash Register originating from a charge key. The corresponding amount is printed with the message "Charge".

List of selections and tokens
This section lists the selections correctly sold detracting the credit from the sale key/card.
If one of the 10 selection-keys has been used, the name and the price of the selection are printed. If the price has been typed using the numerical keypad, the message "Various" is shown with the amount typed beside it.
In the transaction list the message "TOKEN" may appear. This indicates that the token-key has been pressed (see fig.1).

Cancellation of last choice
If a selection is cancelled and the cancellation is successful, the message "CANCEL *selection-name*" appears and, beside it, the re-accredited amount (preceded by the symbol "-") appears. If the amount was typed in using the numerical keypad the message "CANCEL Various" (with the price) appears.
If the key is extracted during the cancellation operation (creating EVENT 9), the message "CANCEL xxxxx IN PROGRESS INSERT KEY" appears.

Total
The message "TOTAL" indicates the total amount of the selections performed using the key/card.

Number of items
Number of items indicates the total number of selections accounted during the last sale session.

Number of tokens
Indicates the number of tokens accounted during the last sale session.

Remaining credit
It indicates the credit which is present in the key/card at the end of the sale session.

Figure 1.

7. INSTRUCTION FOR PERSONALIZING THE KEYPAD

The keypad is sub-divided in 3 parts:
-Numerical keypad
-Keypad with 10 selection choices
-Function keys

The labels of the 10 selection choices can be personalised using the files **.cdr** included in the floppy disk sold together with the Canteen Cash Register.

The file EXAMPLES_EN.cdr includes an example of standard keypad.
The file LABELS_EN.cdr allows to personalise the keypad.
By using this file, in fact, it is possible to fill the empty buttons (10 selection choices) with personalised labels. With regards to all the other buttons, it is possible to modify the colour only.

CREATION OF THE LABELS

1. By using the file LABELS_EN.cdr create the personalised labels;
2. Print the labels on a white sheet of paper;
3. Stick an adhesive transparent plastic film on both sides of the paper as reinforcement (Fig.1);
4. Cut the strips following the lines (Fig.2);
5. Unscrew the metal cover of the keypad (Fig.3);
6. Insert with care the label strips into the slot openings(Fig.4);
7. Replace the metal cover of the keypad.

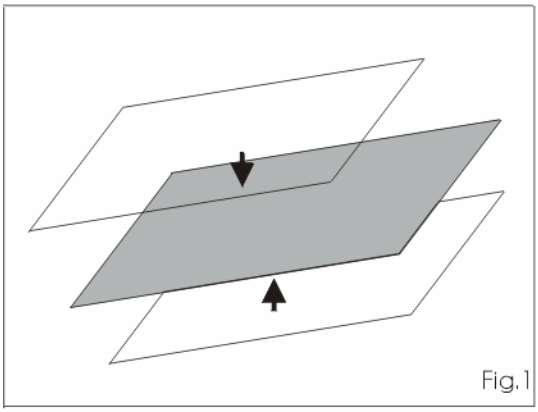


Fig.1

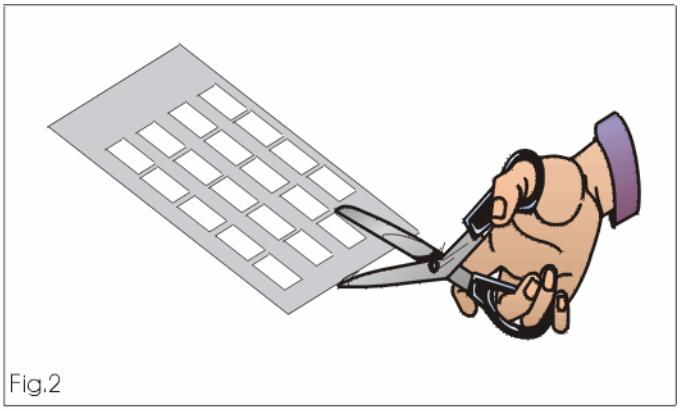


Fig.2

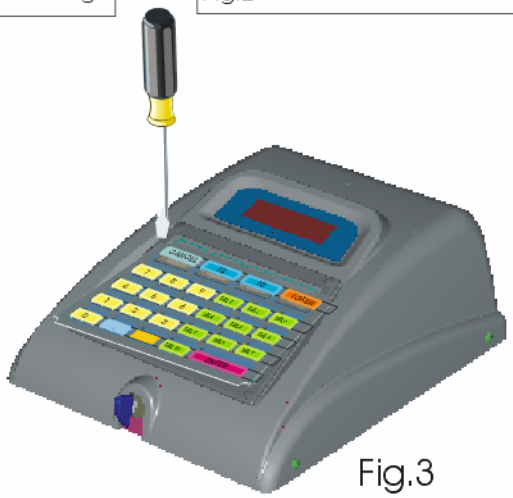


Fig.3

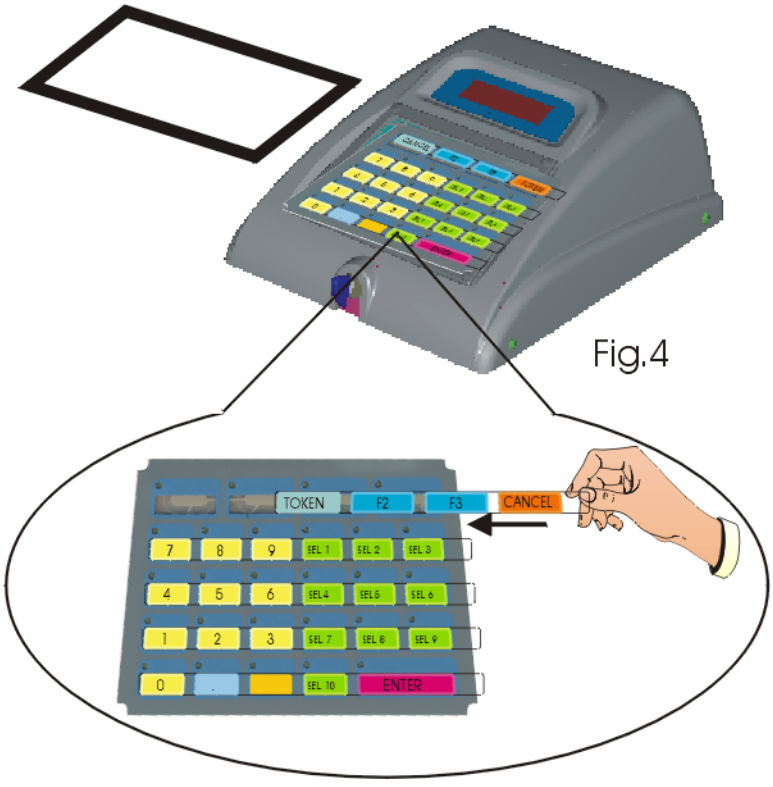


Fig.4

DICHIARAZIONE DI CONFORMITÀ - DECLARATION OF CONFORMITY
DÉCLARATION DE CONFORMITÉ - KONFORMITÄTSERKLÄRUNG
DECLARATIÓN DE CONFORMIDAD - DECLARAÇÃO DE CONFORMIDADE.

ADE S.r.l.
Via L.Galvani, 6 - 33089 Villotta di Chions (PN) - ITALY
Tel. (0434) 421711 r.a. - Fax (0434) 421790

Dichiara che la macchina, descritta nella targhetta di identificazione, è conforme alle disposizioni legislative delle direttive: **89/336, 73/23 CEE** e sucessive modifiche ed integrazioni.

Declares that the machine described in the identification plate conforms to the legislative directions of the directives: **89/336, 73/23 EEC** and further amendments and integrations.

Déclare que l'appareil décrit dans la plaque signalétique satisfait aux prescriptions des directives: **89/336, 73/23 CEE** et modifications/intégrations suivantes.

Erklärt, daß das im Typenschild beschriebene Gerät den **EWG** Richtlinien **89/336** und **73/23**, sowie den folgenden Änderungen/Ergänzungen entspricht.

Declara que la máquina descripta en la placa de identificación, resulta conforme a las disposiciones legislativas de las directivas: **89/336, 73/23 CEE** y modificaciones y integraciones sucesivas.

Declara que o distribuidor descrita na chapa de identificação è conforme às disposições legislativas das directivas CEE 89/392,73/23 e sucessivas modificações e integrações.

Villotta di Chions, 01-10-2002

NELLO TESOLIN

Presidente
Chairman
Prèsident
dar Präsident
President

FIRMA - SIGNATURE - UNTERSCHRIFT
ASSINATURA