<table>
<thead>
<tr>
<th>REV No</th>
<th>DATE</th>
<th>REASON</th>
<th>ROM VER</th>
<th>Check sum</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>21/04/2004</td>
<td>1st edition</td>
<td>1.00-7</td>
<td>5588</td>
</tr>
<tr>
<td>01</td>
<td>26/01/2005</td>
<td>ADD SOME FUNCTION</td>
<td>1.02-4</td>
<td>65A4</td>
</tr>
</tbody>
</table>
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13.41 item %, item (-), item (+) for minus item

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1. Unpacking

The ECR packing method is shown fig 2-1.

Unpack the ECR an check that the following items are present.

1. two rolls of thermal rolls 38mm
2. one journal Take-up reel
3. key set
4. G356E owners manual
5. Dust cover

1.1 check for transport damage

If the ECR was received in a damaged carton, unpack and inspect for physical damage immediately, as described in table 2-1. If damage is found, contact the freight carrier and file a claim promptly. If any parts are missing, contact JCM within one week of receiving the ECR.

Initial inspection

Perform the appearance and mechanical checks as listed on table 2-1.

The ECR cabinet can be detached by removing the three screw on the upper side of the cabinet. The two screw is on the printer side. And other one is under the customer display unit.

It is concealed under a small cover

<table>
<thead>
<tr>
<th>Inspection</th>
<th>check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>A. surface of cabinet, keyboard, and cash drawer for damage such as dents and scratches.</td>
</tr>
<tr>
<td></td>
<td>B. display windows for damage such as cracks or scratches.</td>
</tr>
<tr>
<td>Mechanical</td>
<td>A. all electrical connections for proper seating</td>
</tr>
<tr>
<td></td>
<td>B. keys in mode lock for proper operation.</td>
</tr>
<tr>
<td></td>
<td>C. Cash drawer for smooth operation when released manually. See selection 2.3 for release details.</td>
</tr>
</tbody>
</table>

1.2 EPROM VERSION CHECK

JCM is developing and improving software of G356 day and night without stop, so your machine may be implemented with old version of EPROM.

So, please make sure EPROM version as follows.

G356E-1.00-5 or later

1.3 REPLACEMENT OF EPROM

When you replace version 1.00-5 with version 1.00-4, all clear by using DIP switch should be executed.
1.4 EMERGENCY CASH DRAWER RELEASE
In the unlikely event of a machine malfunction or a prolonged power failure, the model G356E is equipped with an emergency cash drawer release.

The release is located on the rear underside of the cash drawer. To manually release the drawer, carefully lift one side of the ECR with your left hand and push the release tab with the other.

FIGURE 2-2 Emergency Drawer Release

![Emergency Drawer Release Diagram]

2. SYSTEM CONFIGURATION

2.1 SCANNING WITH INTERNAL PLU
Although no special programming for bar code reading by hand scanner is required, and inner cable should be implemented.

![Inner Cable Diagram]

<table>
<thead>
<tr>
<th>Port</th>
<th>Connector</th>
<th>No.(CPU BOARD)</th>
<th>Harness number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCOM1</td>
<td>JP8</td>
<td>WI-906</td>
<td></td>
</tr>
<tr>
<td>SCOM2</td>
<td>JP9</td>
<td>WI-907</td>
<td></td>
</tr>
</tbody>
</table>

There is no specific model for Fixed Scanner. You may use Metrologic MS860 or Spectra Phisics VS-1200 or HS-1250. For detail, contact JCM Sales Dept.

If you use the ZE-84RMR hand scanner(Panasonic), inner cable should be implemented.
2.2 REAL TIME COMMUNICATION AND SCANNING WITH EXTERNAL PLU

ECR

G356

IBM -PC
+SOFTWARE

MS5100 (metrologic) HAND SCANNER
2.3 SCOM1 & SCOM2 PIN LAYOUT

<table>
<thead>
<tr>
<th>J8,J9,J16,J17</th>
<th>SCOM1,SCOM2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN</td>
<td>SIGNAL</td>
</tr>
<tr>
<td>6</td>
<td>GND</td>
</tr>
<tr>
<td>5</td>
<td>TxD</td>
</tr>
<tr>
<td>4</td>
<td>RxD</td>
</tr>
<tr>
<td>3</td>
<td>RTS</td>
</tr>
<tr>
<td>2</td>
<td>CTS</td>
</tr>
<tr>
<td>1</td>
<td>+5V</td>
</tr>
</tbody>
</table>

- SCOM1=WI-906 FOR SCANNER(+5V is available)
- SCOM2=WI-907 FOR PC COMMUNICATION(+5V isn’t available)

2.4 RS232C POINT TO POINT COMMUNICATION WITH PC

Cable for 9-pin connector(cross cable)

<table>
<thead>
<tr>
<th></th>
<th>ECR</th>
<th>PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN</td>
<td>SIGNAL</td>
<td>SIGNAL</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
<td>GND</td>
</tr>
<tr>
<td>3</td>
<td>TxD</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>RxD</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>RTS</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>CTS</td>
<td>7</td>
</tr>
</tbody>
</table>

After system configuration is connected between PC & ECR, pls do the programming as belows:
1) In ECR, set SCOM 1 or 2 for PC communication
   EG. “P”——95——X/TIME——3000——ST——#/NS (in case of SCOM1)
2) In ECR, set communication open
   EG. “R”——112233——

2.5 CABLE CONNECTION WITH HAND SCANNER

<table>
<thead>
<tr>
<th>ECR male 9pin</th>
<th>HAND SCANNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN</td>
<td>SIGNAL</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
</tr>
<tr>
<td>3</td>
<td>TxD</td>
</tr>
<tr>
<td>2</td>
<td>RxD</td>
</tr>
<tr>
<td>7</td>
<td>RTS</td>
</tr>
<tr>
<td>8</td>
<td>CTS</td>
</tr>
<tr>
<td>9</td>
<td>+5V</td>
</tr>
</tbody>
</table>

**Optional:** If your hand scanner has external power supply, you do not need to connect 6——9.
JCM highly recommend the Metrologic Handscanner,
2.6 CONNECTION WITH SLIP PRINTER

configuration of cable for slip printer
(1) WI-837N + slip printer cable (currently)
   Female  male——dsub 25pin

(2) WI-907 + slip printer cable (new version)
   male   female——dsub 25pin

G356 9 Pin female connector GP965 Slip Printer

**New version cable**

<table>
<thead>
<tr>
<th>ECR female 9pin</th>
<th>slip printer(25pin)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN SIGNAL</td>
<td>PIN SIGNAL</td>
</tr>
<tr>
<td>5 GND</td>
<td>7 GND</td>
</tr>
<tr>
<td>3 TxD</td>
<td>2 RxD</td>
</tr>
<tr>
<td>2 RxD</td>
<td>3 TxD</td>
</tr>
<tr>
<td>7 RTS</td>
<td>4 CTS</td>
</tr>
<tr>
<td>8 CTS</td>
<td>5 RTS</td>
</tr>
<tr>
<td>N.C</td>
<td>1 F.G</td>
</tr>
</tbody>
</table>

**Pls make sure the Slip Printer’s dip switch 7 & 8 are “on”
**Turn on ECR first, then turn on Slip Printer

Pls do the programming as belows:
(1). In ECR, set the SCOM 1 port for GP965
   EG. “P”——95—X/time——4000—ST——#/#NS
(2). In Ecr, set the Free Function Key for Slip printing
   EG. “P”——99—X/Time——062——F1——#/NS
(3). After the above setting, pls go to “Reg” mode, and press
   “F1” which was set for executing the Slip Printing.
   After the above connection, Pls do the following programming

2.7 INSTALLATION AND WARNINGS

Premised that the cash register must be installed on the point of sale exclusively from authorized technical staff, we remember that for a good operation of the same cash register it is necessary to respect the following indications:

- at the ECR installation, verify that electrical plant is endowed of a corrected earth connection and that the socket is installed near of the ECR and is of easy access;
- to avoid to make the ECR in excessively cold or excessive warm places or exposed directed to solar for along time (the correct operation is guaranteed for temperatures comprised between 0°C and 40°C);
- to avoid that the ECR comes to contact with liquids of whichever kind;
- to avoid to make to work the ECR in places very dusty;
- The ECR contains a re-charging battery to the LITIO whose substitution is previewed exclusively through the authorized technical staff.

In case of breakdowns that prevent a corrected operation of the ECR from the “special Memory” point of view, the cash register jams, on the display a numerical code appears and is emitted an acoustic signal.

In these cases it is opportune to power-OFF the machine and to call the technical servicing authorized.

**OTHER WARNING :**

1) The G·356 model is equipped with a thermal printer, therefore, the user will have to conserve printed documents, in dark places with inferior relative humidity to 80% and inferior temperature to 35°C, avoiding the contact directed with plastic materials and in particular with polivinilcloruro, in this mode will be possible to conserve printed reports for long time.
DIMENSIONS
WIDTH  :  41 cm
Depth   :  42 cm
Height  :  31 cm
3. Block Diagram

Main board
- CPU: M16C/80 (16bit Micro Processor)
- PROM: 4M BIT EPROM (for program)
- RAM: 4M BIT (512k byte base memory)
- PRINTER: LTP2W47 Line thermal printer
  - 20 characters for receipt and 20 characters for the journal
  - The printing speed is 90mm/sec (max)
- Auto Cutter: ACU1224B0
- Paper Feed: Receipt / Journal independent feed
- Keyboard: Mould type membrane contact
- Display (FD, RI): 9digits Vacuum Fluorescent Display
- Communication Port: 4-channel UART
- PC: GP965 Slip Printer
- Fix/Hand Scanner
- Drawer: 4bill / 8coin Middle size
### 3.1 Memory configuration

#### 3.1.1 Totalizer

<table>
<thead>
<tr>
<th></th>
<th>DAILY TOTALIZERS</th>
<th>CONTERS TOTALIZERS</th>
<th>P-T-D TOTALIZERS</th>
<th>COUNTERS TOTALIZERS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Digits</td>
<td>Q’ty</td>
<td>Dig</td>
<td>Q’ty</td>
</tr>
<tr>
<td>Departments</td>
<td>10</td>
<td>50</td>
<td>6+2</td>
<td>50</td>
</tr>
<tr>
<td>All Departments</td>
<td>10</td>
<td>1</td>
<td>6+2</td>
<td>1</td>
</tr>
<tr>
<td>PLU</td>
<td>10</td>
<td>*</td>
<td>6+2</td>
<td>*</td>
</tr>
<tr>
<td>Clerks</td>
<td>10</td>
<td>9</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>Hourly Activity</td>
<td>10</td>
<td>24</td>
<td>6</td>
<td>24</td>
</tr>
<tr>
<td>Dept’s Groups</td>
<td>10</td>
<td>4</td>
<td>6+2</td>
<td>4</td>
</tr>
<tr>
<td>%1,2,3</td>
<td>10</td>
<td>3</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>% after sales</td>
<td>10</td>
<td>3</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>% after SUB-TOTAL</td>
<td>10</td>
<td>3</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>Deduction (-)</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Deduction after items</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Deduction after SUB-TOTAL</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>(+) after items</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>(+) after SUB-TOTAL</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Total key</td>
<td>10</td>
<td>9</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>R/A</td>
<td>10</td>
<td>3</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>P/O</td>
<td>10</td>
<td>2</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>R.M</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Void</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>E.C</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Transaction Void</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Rounding</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Non taxable</td>
<td>10</td>
<td>1</td>
<td>6+2</td>
<td>1</td>
</tr>
<tr>
<td>VAT</td>
<td>10</td>
<td>6</td>
<td>6+2</td>
<td>6</td>
</tr>
<tr>
<td>TAX</td>
<td>10</td>
<td>2</td>
<td>6+2</td>
<td>2</td>
</tr>
<tr>
<td>Net sales</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>General Total</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Bill</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Currency</td>
<td>10</td>
<td>9</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>F.C Total</td>
<td>10</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>C.I.D</td>
<td>10</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CREDIT</td>
<td>10</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>EFT received on account</td>
<td>10</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PB</td>
<td>10</td>
<td>*</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Deposit (on PB)</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Debit (on PB)</td>
<td>10</td>
<td>1</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>G.T (NRGT)</td>
<td>14</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Receipt Number</td>
<td></td>
<td>6</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>

- Quantities with "*" symbol, (PLU, and PB), depends from memory setting, see Par.3.1.2 at next page.
3.1.2 Memory occupation
On ECRs memory, different kinds of data can be managed. The mentioned data have different memory occupation size, so it’ll be necessary to calculate the memory expansion.

Here below (on table) the max record number for each kind of data, besides the single dimension for each kind of record.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Standard Memory 448KB</th>
<th>Mem. Occ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLU12 char</td>
<td>7545</td>
<td>30 Bytes</td>
</tr>
<tr>
<td>PLU20 char</td>
<td>6233</td>
<td>38 Bytes</td>
</tr>
<tr>
<td>PLU15 char. +Stock</td>
<td>6233</td>
<td>38 Bytes</td>
</tr>
<tr>
<td>PLU12char+P-T-D</td>
<td>5851</td>
<td>41 Bytes</td>
</tr>
<tr>
<td>PLU20char+P-T-D</td>
<td>5030</td>
<td>49 Bytes</td>
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<td>5030</td>
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<tr>
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</tr>
<tr>
<td>Second Lang.</td>
<td>fix occupation.</td>
<td>16384 Bytes</td>
</tr>
<tr>
<td>Electronic journal</td>
<td>5000line x 25</td>
<td>125k Bytes</td>
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</tbody>
</table>

3.2. KEYBOARD
3.2.1 Default keyboard configuration
One of the main characteristics of ECR consists in the possibility to personalize the layout of the keyboard allotting the keys and the correspondent functions in the wished positions.

In any case the cash register comes initially supplied with a standard configuration that, like saying, could then be modified from the Servicing on the bases of the particular requirements of customer.

Other possibility is that one allows the utilization of the keyboard to input alphabetical characters, useful in phase of programming of descriptions and to input PLU codes alphanumeric when the device is connected to a PC.

3.2.2 Default keyboard layout
( ): FOR ALPHABETICAL CHARACTER

G356 LAYOUT

| HELP Info. | XTime | #/No Sale | Clerk | Trans. Void | Void | %1 | %2 | 7 | 8 | 9 | 4 | 5 | 6 | 1 | 2 | 3 | 1 | 4 | 9 | 8 | 13 | 14 |
|------------|-------|-----------|-------|-------------|------|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CL         |       |           |       |             |      |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Err Cor    |       |           |       |             |      |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| (-)        |       |           |       |             |      |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Rtn Mlsre  |       |           |       |             |      |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

<table>
<thead>
<tr>
<th>Amount</th>
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<th>F</th>
<th>Z</th>
<th>R</th>
<th>F</th>
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<tr>
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<td>U</td>
<td>21</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Q</td>
<td>V</td>
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<td>R</td>
<td>W</td>
<td>23</td>
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<tr>
<td>S</td>
<td>X</td>
<td>24</td>
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<table>
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<tr>
<th>Recd On Acct</th>
<th>Total 3</th>
<th>Paid Out</th>
<th>Total 2</th>
<th>Sub Total</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Cash Tend</th>
<th>(total 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4. PRINTER

The characters are printed using one matrix of points printed by of one fixed thermal head.
The printing ability is of 20 characters for receipt and 20 characters for the journal
(characters with double height and double width are available also ; using the characters to
double width the number of characters for line will be obviously inferior).
The printing speed is of 10 lines/second.
At the end of the journal's paper roll the ECR'll stop its functions signaling the paper end
by giving an appropriate message.
Main characteristics of printing are the remarkable speed of emission of the receipt, due
essentially to the quick paper feed, the low level of noisiness obtained thanks the utilization of
special materials and to the technology of thermal printer support.
On G-356, it is possible moreover to activate the printing of graphical LOGO fixed or
personalizable bringing back images (as an example the brand of the own activity).

5. PREPARATION OF ROLL PAPER

1. To fold the border of the paper like indicated on the drawing identified with "√"
and set the roll paper again like indicated in the same drawing.

2. The setting of the roll paper as indicated on the drawing identified from "x" it is not
corrected and must not be used.

To insert the roll paper on the printer like indicated in the figure “3”.
1. To insert the border of Roll paper in the insertion figure presents in the back side of the printer
doing them to pass in the part below to the rubber roller.
2. To let out the paper from the front side of printer

To predispose the printer for the paper introduction.
1. To raise up the BLUE lever on the right side of the printer and set it towards the upper site, so like indicated in the figure "2".

Set again the printer for the normal operations.
1. To lower the BLUE lever on the right side of the printer setting it towards the ECR bottom, like indicated in the figure "4".
2. To wrap the journal paper on the rewinder.
3. To resume, on the ECR, the normal operation.
6. Constitution of Indicator and error messages

The indicator consist in two display, one at the clerk side and one at the customer side. Clerk and customer display can be only numeric (one line for 9 columns).

The messages of error and state are evidenced on display through numerical codes. The meanings of the messages showed by the display is following, the error meaning can also be printed by “i/help” key pression during error message:

- **OP** - Operator Code  
  It indicates that it is necessary to input a clerk code.

- **E000** - Paper lock  
  It indicates a generic problem in printing at the receipt or journal site, like the lacked or incorrect closing of the printer thermal head, or the disconnection of some connector of the printer from the main board.

- **E001** - RAM  
  Indicates a problem concerning to a malfunctioning of the base RAM memory installed on ECR.

- **E004** - EPROM  
  Indicates a problem in the EPROM containing the functional program of the ECR.

- **E005** - Internal RAM (CPU)  
  It indicates a problem in the area of the memory of job of the machine, contained inside of the CPU of the ECR.

- **E006** - Battery (memory)  
  It indicates a problem in the backup battery of maintenance RAM data, the data of the totalizers have altered, is demanded obligatorily an All Clear Reset of the ECR.

- **E007** - Thermal head connector  
  It indicates the disconnection of the connector of the thermal head (printing) from the mother board of the ECR.

- **E100** - Key Sequence  
  It signals the pression of a key not previewed.

- **E101** - HALO over  
  It indicates that it has been exceeded the set up maximum limit for the amounts.

- **E103** - C. C. D. compulsory  
  It indicates the obligatory nature to execute the cash declaration before being able to execute the daily closing (Z~1~Tot.1).

- **E104** - PLU preset over  
  It indicates that the max number of PLU inside ECR’s memory has been reached.

- **E105** - Scanner read  
  Error in the data sent from the Scanner to the ECR.

- **E106** - no PLU  
  Indicates the impossibility to identify a code produced in the memory of the PC or of the ECR.

- **E107** - Slip compulsory  
  It indicates the obligation of the printing of the Invoice or Bill on Slip Printer.

- **E108** - Supervisor code  
  It required supervisor operation.

- **E111** - Debit mode error  
  It indicates a formulation error during a Debit operation on a PB.

- **E112** - Deposit mode error  
  It indicates a formulation error during a Deposit operation on a PB.

- **E114** - PB Reg. mode error  
  It indicates a formulation error during an operation on a customer (PB).
E115 · Type writing error  · It indicates a formulation error during the input of one alphanumeric string executed by using of the key "Prints alphanumeric string".

E116 · Decimal Point  · Indicates a wrong operation after the use of the key "," (decimal point).

E117 · amount key PLU error  · Indicates a wrong operation after the use of the key "PLU price".

E118 – No limit key error  · Indicates a wrong operation after the use of the key "No Limit".

E119 · Shift Key error  · Indicates a wrong operation after the use of the key "SHIFT".

E120 – Void key error  · Indicates the execution of a wrong operation after the use of the "VOID" key, as for example the attempt to execute the VOID of an article with a VAT not used inside the receipt in course.

E121 · R.M key error  · Indicates a wrong operation after the use of the key "R.M.".

E122 – Digits input error  · Indicates the execution of a wrong operation after the use of numeric keys (key-pad).

E123 – input digits (required.)  · Indicates that the executed operation demands a preventive input to execute by numerical keys (key-pad).

E124 – input over limit  · It indicates that the input executed by numerical keys (key-pad) exceeds the maximum number of digits allowed.

E125 · X Key error  · Indicates a wrong operation after the use of the key "X/Time".

E126 – Limit overflow  · The result of the multiplication exceeds the maximum limit of digits (10) allowed.

E127 – no price preset  · The insertion of price lacks in the pressed department, the department does not have programmed price and it cannot be pressed directly without the manual insertion of the selling price.

E128 · Repeat inhibit  · It indicates the attempt to repeat a registration when the repeat function is not allowed.

E130 – subtotal negative  · It indicates that an operation is being executed of (-), (+) or (%) to the inside of a receipt where, for previous operations, Sub-Total is already negative.

E131 · % (-), (+) not enable  · It indicates that it has been tried to execute an operation of discount or additional charge in not qualified percentage in the ECR (Es.: 10% of reduction in price on the item when the reductions in price on % are possible only after Sub-Total, see status of the percentages).

E132 · % after negative reg.  · It indicates that an operation of (%) is being executed after the registration of an amount negative (negative PLU).
E133 · after arrangement PLU  · It indicates that it has been executed an operation of (-) DEDUCTION or (+) ADDITIONAL CHARGE immediately after the registration of a "PLU arrangement".

E134 · amount over for (-)  · Indicates that a deduction of an amount higher than Sub-Total has been executed.

E136 · Tendering compulsory  · It indicates that it has been activated the closing of a receipt without the insertion of the amount paid from the customer, while obviously the ECR is enforced tendering amount input.

E137 · S.T. compulsory  · It indicates that it has been tried to continue an operation without the pression of key Sub Total to the inside of a procedure where instead the Sub Total is obligatory, recording , Foreign Currency exchange, PB, etc....

E138 – not cash on F/C key  · It indicates that it has been tried to close receipt with a TOTAL set to "Sum in the Credits totalizer" after to have executed the calculation of the F/C exchange.

E139 · over subtotal limit.  · It indicates that the executed operation (PLU, %, R.M., etc...) bring the Sub Total in negative ; this, in case of R.M., can only happens if the Status System 6.H is set to 0 (zero) "automatic balance of bill not possible".

E140 · Max. receipt line  · it indicates that it has been exceeded the maximum amount of the amount admitted in the receipt.

E141 · C/D error  · Indicates that the digit of Check Digit introduced after PLU code EAN13 is not correct.

E142 · More than 13 dig  · It indicates that it has been tried to memorize in the ECR's memory a PLU code with more than 13 digits.

E143 – Supervisor code  · Supervisor code is required in order to enter the “P” mode

E144 · Code not previewed  · Indicates that the code inserted before the pression of the key "key " in order to go in a different mode (Es. X, Z, P, Training, etc...) is one wrong code and therefore not previewed.

E145 · Code Input error  · It indicates that the secret clerk code inserted is not correct.

E147 · Change no allow  · Indicates that the inserted amount for over tendering on receipt in course, is lower to the total of the same receipt.

E148 · Err. SLIP PB  · It indicates that it has been executed a wrong and not previewed operation during the printing of operations relative to PB on the Slip Printer.

E149 · PB non exist  · Indicates that it has been inserted and recalled a PB code (customer) not existing.

E150 · Code no preview  · It indicates that the programming code (in order to activate one of the previewed
programmings) inserted is not previewed.

E151 - Sequence error
- It indicates that the sequence activated in programming mode, of one whichever function, is not corrected.

E152 - Data Error
- It indicates that the data inserted during the programming contains an error.

E154 - PB memory full
- Indicates that it has been exceeded the maximum number of PB in the ECR.

E155 - Code non exist
- Indicates that the inserted code for the report printing does not exist.

E156 – Block PLU err.
- Indicates that the code of a PLU, used in order to define a "block" during the printing of a sequential report of PLU, is not corrected or does not exist in the ECR's memory.

E157 - PB Code error
- Indicates that the code input for the programming of PB (customer) is wrong.

E161 - Data format err
- Indicates that the format with which is being tried to insert the date is not that one previewed, the format must be: DDMMYY.

E162 - Time format err
- It indicates that the format with which is being tried to insert the time is not that one previewed, the format must be: HHMM.

E163 - No date set yet
- It indicates that after to have executed an "All Clear reset" on the ECR still the date has not been programmed : operations on the ECR before the date and time programming after All clear reset could not therefore be executed.

E164 - No time set yet
- It indicates that after to have executed an "All Clear reset" on the ECR the time has not been programmed : operations on the ECR before the date and time programming after All clear reset could not therefore be executed.

E169 - Dip switch 1 OFF
- It indicates that an operation from keyboard (Reset) that request the setting in "ON" position of the Switch 1 on ECR's mother board is being executed without Switch 1 in "ON" position.

E171 – not authorized
- Indicates that the clerk running has tried to execute an operation to which is not qualified.
  It’s necessary the SUPERVISOR intervent, so he will be able to execute the operation for the not qualified clerk.

E172 - Dep·Shift error
- It indicates that the use of the "SHIFT" has defined the amount recording on a department upper than "50", or the PLU on PC makes reference to a dept. upper than "50".

E173 - Amount not Allow
- The inserted amount is not allowed.
E175 - Receipt buffer full
- Indicates that the buffer used to containing the operations made in the within of a receipt it has caught up the 99 lines; if the receipt it comes continued, the receipt VOID will not be more possible and the eventual stub receipt could not be detailed.

E177 - HALO (RM/VD)
- It indicates that the value of the amount input for the execution of the VOID or R.M. operation is upper to the maximum allowed from the configuration of the ECR.

E178 - LALO (RM/VD)
- It indicates that the value of the amount input for the execution of the VOID or R.M. operation is lower to the maximum allowed from the configuration of the ECR.

E179 - Mode cannot chg.
- It indicates that it has been tried to change the key position with the receipt open; this message can appear in mechanical key moving case (if present like option), or because the key "key" has been pressed with the receipt in course.

E180 - subtotal HALO over
- It indicates that it has been exceeded the maximum amount in one receipt.

E183 - inhibit display
- It indicates that it is being tried to execute a report in visualization on the display, while the ECR is set in order to doesn't allow such type of report.

E184 - inhibit double multi
- It indicates that it has been executed an operation of "double multiplication" (Es.: 10--X--10--X--500) while in the ECR the operation is not allowed.

E185 - inhibit P-T-D reset
- It indicates that it is being tried to execute a P-T-D reset while on ECR this kind of reset Isn't allowed.

E186 – no PLU memory
- It indicates that on ECR there isn't memory et for PLU containing.

E187 – no PB memory
- It indicates that on ECR there isn't memory set For PB containing.

E189 - SLIP not connect
- It indicates that it has been activated the Slip without that the same one is connected to the ECR or with the Slip Printer In "OFF" condition.

E191 – No EJ memory
- It indicates that on ECR there is not memory set for EJ containing.

E197 -no 2nd language memory
- It indicates that it is being tried to execute an operation relative to the use of the second language without that has been reserved memory to the second language same.

E201 - LALO over error
- It indicates that the amount that it is attempted to register in the department is inferior to the minimal amount allowed.
E204 · receipt void not possible · It indicates that it is being tried to execute the receipt VOID on a receipt with more than 99 registration lines.

E215 · Over tender not allowed · It indicates that it is being attempted to execute the over tendering on a Total where this function is not allowed.

E301 – Paper near end · It indicates that journal or the receipt rool paper is finished, so the machine stops working and it’ll be necessary to replace the ended rool to continue working.

E305 · Slip OFF · It indicates that there is a problem in external printer (the Slip Printer) used for the printing of Invoices or Bill; the printer could also be simply only OFF.

E306 · Slip paper · It indicates that it has been sent a document printing to external printer (the Slip Printer) without having preventively put a paper sheet on Slip Printer.

E401 · PC Linking · It indicates that there is an interruption of the connection between ECR and PC; in the case in which the problem is due to big problems on the PC, it’s possible to close the communication on ECR by lowering for three times the key "E.C.", after three times the "E.C." key the ECR will be unconnected from the PC so it’ll be able to continue to work stand-alone.

E408 – SLIP line over · It indicates that it has been caught up, on external printer (the Slip Printer), the maximum number lines allowed (the maximum number of lines comes defined in programming), to insert another paper sheet on Slip and to press for three times the "CL" key to reactivate the printing.

E406– Net sales overflow · It indicates that the max amount earn in the course of a single day (19,999,999.98) have been caught up the maximum limit of amount recorded in the totalizer “net sales” and that for being able to continue with other registration is enforce to execute the daily reset.
The indicator consist of two display, one at the clerk side and one at the customer side.
Clerk and customer Display can be only numeric (one line for 9 columns).
Type      :  7-segment green
Capacity   : 9 digits
Amount     --- 7 digits for input 8 digits for display
Repeat     --- 2 digits

7.1 OPERATING MODE and PARTICULAR INDICATIONS ON DISPLAY

There are 7 different operating mode:
- **LOCK**  no operation is allowed
  first: and last : lit
  
- **S** visualization on display of the PLU/PB data (S.S.7·G=1 only)
  
- **R** normal operations of registration
  
- **SIGN OFF** It indicate to require to sign-in the clerk code.
  
- **X** reading reports and adjustment stock PLU
  
- **Z** daily and P-T-D reset reports
  
- **P** program mode

In order to pass from an operating mode to another a numerical code is used and key "   " , in this way:
- **LOCK** : to press directly the key "   "
- **S** : press " 0 " and "   "
- **R** : press " 1 " and "   "
- **X** : press " 2 " and "   "
- **Z** : press " 3 " and "   "
- **P** : press " 4 " and "   "

While, always relatively to the indications that can appear on the display (for G·356), the light-on of one or more point and comma in the low part of the display will indicate one of following situations:
- Second keyboard (Shift) active (first lit)
- Second price active (second lit)
- Communication with the PC open (last lit)
OTHER DISPLAY MESSAGE
(1)  J FULL  : When the electronic journal memory become nearly full, it will appear.
(2)  HAPPY  : When the happy receipt is issued, it will appear.
(3)  CE  : When change amount is occur, it will appear with changing amount.

7.2  LOCK MODE
The unit is locked out in this mode from any operations.
The display is blacked out in this mode except that two comma and two decimal point are light.

7.3  Register mode
All registering operation are available in this mode.

7.4  Read Mode (X)
All total and counters can be read in this mode.
Depressing the CASH/TEND key with specified numeric (Report codes) causes various read reports to be issued.
The time and date setting can be entered.
When a terminal enters into the read mode, the symbol "L" signifying the read mode is displayed on the extreme left column of the numeric display.

7.5  Reset Mode (Z)
The function on the reset mode is to generate various reset reports in the same manner as in the read mode.
After reset report generation, all totals and counters are reset to zero except those which are specified as non-resettable.
When a terminal enters into reset mode, the symbol "C" signifying the reset mode is displayed on the extreme left column of the numeric display.

7.6  Program Mode(P)
When a machine enter into the program mode, the symbol “P” signifying the program mode is displayed on the extreme left column of the numeric display.
8. FUNCTIONS AND MEANING OF FUNCTION KEYS

The G-356 model, like said, can be personalized with various configurations of keyboard; moreover, on a part of the keys, the alphabetical characters and some symbols are available. In this way a true alphanumerical keyboard is available very useful in phase of programming, and also during the registrations, in order to annotate data and/or names for managerial use (for eg. the name of the customer) or in order to recall alphanumeric codes article in the case of ECR connected to P.C. Here of continuation we give the list of the keys available and the relative functions; between parenthesis it comes indicated the description standard of the labels.

Key " " Used to select the operating mode

Numeric Keys (00,0...9) Used in order to input amounts and quantity, to recall codified articles (PLU) and customers (PB), for the programming and in order to select the reports of reading and/or reset.

Leading zeros indexed prior to the numeric keys, “1” through “9” are ignored

Decimal Point(.) Used in order to input quantity and percentage rate with decimals.
The index capacities of the quantity and percent rate are "0.001 to 9999.999" and 0.001 to 99.999% respectively.
The depressing of this key is limited to once per numeric entry.

Multiplication (X / time) Used in order to input quantity to multiply for the unit price (also “split pricing” Q x Q x P); used also in order to visualize hour and time (“Reg.” mode).

In X mode, this key used to setting of (1)”time of day” And (2) “date” is set in the machine and it is printed.

Clear (CL) Used in order to remove an error condition or in order to cancel one wrong numerical input.

Departments (D1-D50) Used in order to classify the executed registrations (eg. to divide the different categories).

Receipt/Journal feed () Used in order to make to advance the receipt.

Up/Down receipt (↑↓) Used in order to make advance temporary the receipt during an operation (in order to allow the visualization of the last line), and then to set automatically the paper to the initial point.

Cash drawer open/No sale (#/NS) Used in order to open the drawer or to print a numeric or alpha numeric code ("Reg." mode); used also in order to close the operations of programming.
Clerk (Clerk CODE) Used in order to program and to introduce the "secret" code of clerks (the waiters, cashiers, vendors, etc...).

Dept shift (SHIFT Key.) Used in order to increase the number of the accessible Departments: after Keyboard shift pression, the used department will correspond to that one on ECR Keyboard plus the maximum programmed department number divided for 2 (eg.: programmed number of Dept. = 40, Dept. shift + Dept.10 = 10 + (40/2)= Dept. 30).

Free price on PLU (amount) Used in order to execute the sale of a PLU with the price different from that memorized on ECR's memory or different from the price memorized on external PLU. This key status is reset by clear key.

PLU Code (PLU) Used in order to recall the price and the eventual description of codified articles.

Hard PLU Used to give the possibility to set directed on keys PLU codes, so by the direct key pression, it'll be possible to recall PLU code (either available for internal PLU than for external PLU).

E. C. (Error Correction) Used in order to delete the last operation executed during the receipt: used also in order to close the ECR / P.C. connection.

Void (VOID) Used in order to void during a receipt, an amount on a Dept. (whose VAT code has already been interested from one previous operation in the same receipt) or in order to cancel the sale of a PLU previously sold.

Amount limit free (NO LIMIT) Used in order to free a Department from the HALO limit set.

(-) Used in order to subtract an amount from one item and/or from Sub-Total.

(+) Used in order to add an amount from one item and/or from Sub-Total.

Sub total (-)+(+) In case immediately after the Sub total operation, when any tax itemizer is negative, this operation is prohibited and error condition will occur.
<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Slip Printer, bill</strong></td>
<td>Used in order to activate the external printer (the Slip Printer) and to begin the printing of one bill</td>
</tr>
<tr>
<td><strong>Previous Balance (P/B)</strong></td>
<td>Used in order to recall the balance of the codified customers and in order to bring up to date (to memorize) the relative balance (habitual customers, hotel rooms, etc.).</td>
</tr>
<tr>
<td><strong>Deposit on PB (Deposit)</strong></td>
<td>Used in order to record accounts, deposits, etc... on a PB code.</td>
</tr>
<tr>
<td><strong>Debit on PB (Debit)</strong></td>
<td>Used in order to record debits on a PB code.</td>
</tr>
<tr>
<td><strong>New Balance (N/B)</strong></td>
<td>Used in order to conclude some operations concerning to a customer (PB).</td>
</tr>
<tr>
<td><strong>Percent key 1-3 (%)</strong></td>
<td>Used in order to execute deductions and/or additional charge, in percentage, relative to one item or to the Sub TOTAL. In case immediately after the Sub total operation, when any tax itemizer is negative, this operation is prohibited and error condition will occur.</td>
</tr>
<tr>
<td><strong>Received on Account 1-3 (R/A)</strong></td>
<td>Used to register receiving on account.</td>
</tr>
<tr>
<td><strong>Paid Out 1-2 (P/O)</strong></td>
<td>Used to register paid out.</td>
</tr>
<tr>
<td><strong>Sub Total (SUB-Total (R))</strong></td>
<td>Used in order to visualize and to print the partial total during one receipt or to execute one deduction or one additional charge &quot;proportionally shared&quot; on more Depts. or PLU, in order to record mixed payment, in order to visualize the sum of the last two receipts.</td>
</tr>
<tr>
<td><strong>Sub Total only on display</strong></td>
<td>Like above but without the printing on the receipt of the SUB-TOTAL line.</td>
</tr>
<tr>
<td><strong>Total 1-9 (TOTAL)</strong></td>
<td>Used in order to close the transactions holding for example credit, check, cash, etc... subdivided. The key Tot. 3 is used also in order to print the &quot;stub receipt&quot;.</td>
</tr>
<tr>
<td><strong>Foreign currency exchange 1-9</strong></td>
<td>Used in order to register payments in foreign currency, with the automatic calculation of the exchange and of the possible change in national currency.</td>
</tr>
<tr>
<td><strong>EURO detailed stub receipt</strong></td>
<td>Used in order to print the detailed stub receipt with all amounts converted in EURO currency.</td>
</tr>
</tbody>
</table>
VAT print | Used in order to print the VAT data on the receipt.
---|---
Help Key (Help - Info) | Used in order to activate help functions on the key mode active in the ECR, used also in order to print on receipt the lists of the Error codes, Programming, reports, etc...
---|---
Second Language | Used in order to pass from the language of default (see S.S.7H) to the other language available, before the beginning of one receipt. The descriptions of the second language can be inserted and modified via PC, those of “Default language” are fixed on the ECR.
---|---
{EFT Key (confirm) } | Used in order to activate one operation of payment by debit or credit card and to activate the consequent operations on EFT terminal connected to the ECR. Please see the specification of EFT function.
---|---
{EFT void key} | Used in order to interrupt one operation activated with EFT/key. Please see the specification of EFT function.
---|---
Information PLU on Display (PLU info) | Used in order to visualize, during a receipt, the selling price of a PLU, without that this one is registered in the receipt.
---|---
Prints alphanumeric string | Used in order to print on receipt and on the journal one string or alphanumeric message of max. 16 characters, the procedure can as an example be useful for the press of the name of the customer.
---|---
Change "Hallo logo" | Used in order to change with the key in "Reg." mode the Hallo logo printed on the receipt ; function very useful in order to allow, as an example, to the customer to quickly change and simply the logo regarding to the requirements of the moment (Christmas, Easter, etc...). It’ll be sufficient in fact, without open receipts, to input the number of the logo desired and to press the key.
---|---
Transaction VOID (Receipt VOID) | Used in order to VOID one complete receipt ; the pression of the key will VOID all the registrations made until that point to the inside of the receipt. It's not possible in this way to VOID receipts containing more than 99 lines, the overcoming of this limit is advised from the message "Item over".
Arrangement PLU by code  Used in order to call PLU arrangement (until max. 9 PLU) by the arrangement code input (from 1 to 9) and the pression of the key.

Hard linked PLU 1 ~ 9    Used in order to call PLU arrangement (until max. 9 PLU) by the direct pression of the key "Hard arrangement", used either for internal than for external PLU.

Calculator keys "+", ",-", "X", ",÷", "=" These keys are concerning to the function "CALCULATOR", they can be positioned on the keyboard to give the possibility to use the ECR like a normal calculator (numbers on display only).

Tax shift1,2    Used to in order to invert the tax condition.
e.g 150---taxshift1---Dep’t1(taxable1)---total1. 
The amount of Dep’t1 will be treated as nontaxable. Conversely, when registration of nontaxable item.
e.g 250---taxshift1 ----Dep’t2(nontaxable)---total1 
the amount of Dep’t2 will be treated as taxable2. It can be used with PLU ,%,and (+),(−) registration.
In VAT mode ,those key entry are inhibited.
And error condition will occur.

Tax exempt/VAT Empty    Used to in order to cancel all computed tax.
Once a tax exempt is performed, only an error correct or a tender key is permitted.
The sales amount is added to tax exempt total. And tax exempt counter is advanced.
It also can be use in VAT mode.
   In TAX mode, it have a manual tax function.
   It can be used to add tax amount manually.
The indexed amount is added to manual tax total. And its counter is advanced.

TEMP    Used to registration of PLU that is not defined.
Once temporary PLU is registered, this programming data is Stored in G356 even if you enter error correction key or void key after the registration.

A-SHIFT~E-SHIFT    It used to change the key function up to 5 kind.
By this key depression, one key turn into a different function according to the shift key.
This function is managed with memory setting. And it becomes available With setting the memory status that level shift is enable.
The fundamental keys(ten key, X/Time, CL,#/NS) are not affect by SHIFT key.
2nd price key  Used in order to pass from the use of the first programmed price on the department to the use of the second programmed price on the department and vice versa.

Hold/Recall key  this key used to finalize the transaction intermediately, and to recall the transaction. For example, it is useful when a shopper forgets his wallet during registration in a store. When his registration can be closed by Hold/Recall key entry. When he comes back and an operator can enter Hold/Recall key, so that the amount which is held is recalled and registration can be continued.

Preset cash key  Used in order to input preset amount as tendering amount. There are six kind keys for preset amount.

(1 – 6)
9. PROGRAMMING

9.1 KEYBOARD LAYOUT CONFIGURATION

There are on G-356's keyboard 64 keys positions, all the key's positions on keyboard can to assume a previewed function, so the G-356's keyboard can be completely personalized concerning with the customer requirements.

In any case on G-356 there are some keys that are obligatory on the keyboard, so the position can be only "changed" on ECR's keyboard but they cannot be eliminated from the keyboard, for the obligatory key position exchange see below.

9.1.1 G-356 Key position

| 1 5 9 13 17 | 21 25 31 37 | 43 49 55 61 |
| 2 6 10 14 18 | 22 26 32 38 | 44 50 56 62 |
| 3 7 11 15 19 | 23 27 33 39 | 45 51 57 63 |
| 4 8 12 16 20 | 24 28 34 40 | 46 52 58 64 |

9.1.2 OBLIGATORY KEY POSITION CHANGING

Established that on G-356 the keyboard is completely programmable as far as functions and disposition of keys, but it is necessary to take in consideration that a series of keys are "obligatory" for the fundamental functions of the ECR (Programmings of all the other functions of keyboard).

For this reason, these keys can "be moved" from their default position but they cannot be physically removed from the keyboard of G-356.

Above mentioned keys are:

0 1 2 3 4 5 6 7 8 9 X CL and #/NS

The procedure in order to change the position to the keys indicated over, so numerical keys from 0 to 9, the multiplication key, "CL" key and the "#/NS" key, is following:

1) To switch ON the ECR holding pressed the keys indicated in position 1, 2 and 3 of the figures indicated in: 9.1.1 G-356 Key position in the same page

2) After to have executed point 1), press for three times the key indicated in the position 1on same figures indicated over, after this the ECR's display will visualize:

   Display
   ---

3) Press at this point following keys:

   Key on pos.24 to set the keys in object like default in automatic mode, after the pressure of the key. The "obligatory keys" will be set in the ECR's keyboard like from default, in the ECR's display will appear "0" (zero) again and it will be possible to be begun to operate, such default will remain until the power OFF of the ECR.

   Key on pos.30 in order to activate the function that allows to change "the obligatory" keys position.
4) If it has been pressed the key pos. 30 the display will visualize:
   Display
   -0- press the key where to set the zero
5) -1- press the key where to set the one
6) -2- press the key where to set the two
7) -3- press the key where to set the three
8) -4- press the key where to set the four
9) -5- press the key where to set the five
   Display
10) -6- press the key where to set the six
11) -7- Press the key where to set the seven
12) -8- press the key where to set the eight
13) -9- press the key where to set the nine
14) -A- press the key where to set the "X/Time"
15) -b- press the key where to set the "CL"
16) -C- press the key where to set the "#/NS"
17) After the repositioning of the "#/NS" key (that it is last of the obligatory keys)
    the display will visualize:
    Display
    End
18) At this point the "obligatory keys" have been set in the new positions.
    This function could, as an example, be useful in the case in which the operator is left
    handed and therefore he desires to adapt the ECR's keyboard in complete way to its
    requirements.
    It's important to consider that at this point all the keys in the ECR's keyboard, except obviously
    those "obligatory keys" as soon as set on new positions, are not active and therefore if pressed
    don't execute any operation (beep only) ; it'll be however obviously possible, "the obligatory"
    keys already arranged and working, to execute the configuration also of the other keys in the
    ECR's keyboard.
    For the configuration of the keys necessary on the keyboard to follow the procedure
    described in the following page, so:
    9 9  X/time  (........
    Be noted that with the key, at this point, is in "Prg." mode.
    Be noted moreover that also the key "Key" is in this moment not present in the
    keyboard of the ECR and therefore suggest to set it immediately, because it is
    obviously indispensable for the normal use of the machine.
### KEYS’ FUNCTIONS

Each function available is identified from a code; this is the Codes Table of the Function available on G-356:

<table>
<thead>
<tr>
<th>COD</th>
<th>FUNCTION</th>
<th>COD</th>
<th>FUNCTION</th>
<th>COD</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>NOT ACTIVE</td>
<td>035</td>
<td>SUB-TOTAL(R)</td>
<td>064</td>
<td>EURO detailed stub</td>
</tr>
<tr>
<td>001</td>
<td>TOTAL1</td>
<td>036</td>
<td>SUB-TOTAL(D)</td>
<td></td>
<td>Reception</td>
</tr>
<tr>
<td>002</td>
<td>TOTAL2</td>
<td>037</td>
<td>On Display</td>
<td>065</td>
<td>Arrangement PLU</td>
</tr>
<tr>
<td>003</td>
<td>TOTAL3</td>
<td>038</td>
<td>VAT Printing</td>
<td></td>
<td>by code(1..9)</td>
</tr>
<tr>
<td>004</td>
<td>TOTAL4</td>
<td>039</td>
<td>“HELP(HELP – INFO)</td>
<td>066</td>
<td>Key “+”calculator</td>
</tr>
<tr>
<td>005</td>
<td>TOTAL5</td>
<td>040</td>
<td>Second LANGUAGE</td>
<td>067</td>
<td>Key “-”calculator</td>
</tr>
<tr>
<td>006</td>
<td>TOTAL6</td>
<td>041</td>
<td>JOURNAL FEED ↑</td>
<td>068</td>
<td>Key “x”calculator</td>
</tr>
<tr>
<td>007</td>
<td>TOTAL7</td>
<td>042</td>
<td>RECEIPT FEED ↑</td>
<td>069</td>
<td>Key “÷”calculator</td>
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<tr>
<td>008</td>
<td>TOTAL8</td>
<td>043</td>
<td>RECEIPT ON/OFF</td>
<td>070</td>
<td>Key “=”calculator</td>
</tr>
<tr>
<td>009</td>
<td>TOTAL9</td>
<td>044</td>
<td>UP/DOWN RECEIPT ↑</td>
<td>071</td>
<td>Temp</td>
</tr>
<tr>
<td>010</td>
<td>R/A1</td>
<td>045</td>
<td>000</td>
<td>072</td>
<td>A-SHIFT</td>
</tr>
<tr>
<td>011</td>
<td>R/A2</td>
<td>046</td>
<td>Decimal Point</td>
<td>073</td>
<td>B-SHIFT</td>
</tr>
<tr>
<td>012</td>
<td>R/A3</td>
<td>047</td>
<td>PLU</td>
<td>074</td>
<td>C-SHIFT</td>
</tr>
<tr>
<td>013</td>
<td>P/O1</td>
<td>048</td>
<td>CLERK code</td>
<td>075</td>
<td>D-SHIFT</td>
</tr>
<tr>
<td>014</td>
<td>P/O2</td>
<td>049</td>
<td>PLU price(amount)</td>
<td>076</td>
<td>E-SHIFT</td>
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<tr>
<td>015</td>
<td>%1</td>
<td>050</td>
<td>Department shift</td>
<td>077</td>
<td>2nd PRICE</td>
</tr>
<tr>
<td>016</td>
<td>%2</td>
<td>051</td>
<td>No limit</td>
<td>078</td>
<td>HOLD/RECALL</td>
</tr>
<tr>
<td>017</td>
<td>%3</td>
<td>052</td>
<td>PB</td>
<td>079</td>
<td>VAT Empty</td>
</tr>
<tr>
<td>018</td>
<td>(+)1</td>
<td>053</td>
<td>PLU info</td>
<td>080</td>
<td>Preset cash key 1</td>
</tr>
<tr>
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<td>(+)</td>
<td>054</td>
<td>NB</td>
<td>081</td>
<td>Preset cash key 2</td>
</tr>
<tr>
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<td>F/C1(Euro)</td>
<td>055</td>
<td>Slip</td>
<td>082</td>
<td>Preset cash key 3</td>
</tr>
<tr>
<td>021</td>
<td>F/C2</td>
<td>056</td>
<td>Tax shift1</td>
<td>083</td>
<td>Preset cash key 4</td>
</tr>
<tr>
<td>022</td>
<td>F/C3</td>
<td>057</td>
<td>Tax shift2</td>
<td>084</td>
<td>Preset cash key 5</td>
</tr>
<tr>
<td>023</td>
<td>F/C4</td>
<td>058</td>
<td>Key&quot;</td>
<td>085</td>
<td>Preset cash key 6</td>
</tr>
<tr>
<td>024</td>
<td>F/C5</td>
<td>059</td>
<td>#/NS</td>
<td>086</td>
<td>Dept 1</td>
</tr>
<tr>
<td>025</td>
<td>F/C6</td>
<td>060</td>
<td>(EFT)</td>
<td>101</td>
<td></td>
</tr>
<tr>
<td>026</td>
<td>F/C7</td>
<td>061</td>
<td>(EFT Void)</td>
<td>149</td>
<td>Dept 49</td>
</tr>
<tr>
<td>027</td>
<td>F/C8</td>
<td>062</td>
<td>Change “Hallo Logo”</td>
<td>150</td>
<td>Dept 50</td>
</tr>
<tr>
<td>028</td>
<td>F/C9</td>
<td>063</td>
<td>Prints alphanumeric String</td>
<td>201</td>
<td>Hard PLU</td>
</tr>
<tr>
<td>029</td>
<td>DEPOSIT</td>
<td>064</td>
<td></td>
<td></td>
<td>Arrangement 1</td>
</tr>
<tr>
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<td>065</td>
<td></td>
<td>208</td>
<td>Hard PLU</td>
</tr>
<tr>
<td>031</td>
<td>VOID</td>
<td>066</td>
<td></td>
<td></td>
<td>Arrangement 8</td>
</tr>
<tr>
<td>032</td>
<td>Return Merchandize</td>
<td>067</td>
<td></td>
<td>209</td>
<td>Hard PLU</td>
</tr>
<tr>
<td>033</td>
<td>E.C</td>
<td>068</td>
<td></td>
<td></td>
<td>Arrangement 9</td>
</tr>
<tr>
<td>034</td>
<td>Transaction VOID</td>
<td>069</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FUNCTION KEY CODES TABLE**
KEYBOARD FUNCTION PROGRAMMING

In order to personalize the keyboard, it is necessary to follow the following procedure of positioning (see the Matrix of the Codes Position and the Table of Codes Function):

to repeat for several Position/Function

NNN : Function code (three figures)
P : Key on ECR's keyboard.

the sequence (PPP...PP)X/Time can be replaced from the reading through scanner of the bar code of the product.

XX=99 : Common key function preset (same function is set into every level)
  =81 : free function preset level A
  =82 : free function preset level B
  =83 : free function preset level C
  =84 : free function preset level D
  =85 : free function preset level E

In case that level shift function is not available, the input 81·85 will cause error condition.

S.S.9 D : 0 =level shift function is not allowed
  1 =level shift function is allowed

E : 0=level shift status is effective until next level key depressed.(stay down)
  1=level shift status is effective only next key.(pop up)

print sample
common key or in case of no level shift status

<in case of Level A>
If XX=99 (common key setting), target key will be set with same function every level.
9.1.4 PROGRAMMING CODES  ALPHA on KEYBOARD

Like already pointed out, it's possible to use several keys also like input of alphanumeric characters. Analogous to the functions, it's possible to place the characters in one position whichever of the keyboard. Every identified character is obtainable from the codes of two digits from this table.

<table>
<thead>
<tr>
<th></th>
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<td>&gt;</td>
<td>55</td>
<td>¥</td>
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<tr>
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<td>!</td>
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<td>56</td>
<td>l</td>
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<td>À</td>
<td>Ò</td>
<td>Ñ</td>
</tr>
</tbody>
</table>

CHARACTERS CODES TABLE

In order to personalize the keyboard use the procedure of character position:

  to repeat for the each Character/Keys

R M       X/Time     (CC)     Key   #/NS

press the RM key in order to pass from the insertion of capital characters or small characters and vice versa.

CC : Code Character (two figures, you see above table)
Key : Key where it is desired to place the Character

Print format

Key position number
Descriptor
Function code
Alphanumeric character
9.1.5 SPECIAL FUNCTIONS IN ALPHABETICAL MODE INPUT

In the modality of input alphabetical characters:

A. the "E.C" key cancels last character input;

B. the "R.M" key activates the printing of the successive characters in small mode ("a", "b", "c",....) the second pressure of the same key (R.M.), release the printing in small mode and allows to return to the printing of the characters in capital;

C. the "00" key corresponds to "space" (in the characters insertion modality by alphanumeric keyboard only and not in case of characters insertion by numerical code; in this last case the space is obtained pressing for two times the key "0" zero);

D. the "," key (decimal point) activates the printing of the character in double horizontal width. The pressure of the key ",," is valid for all the characters following until the successive pressure of the key ",," so in order to print more characters in modality "double width", it will be necessary to lower the key ",," before the first character (E.g.: BEER = BEER);

E. the "X" key (multiplication) allows to pass from the modality of insertion of the characters by alphanumeric keyboard to insertion of the characters by numerical code and vice versa;

F. above described commands can be used also in "combined " mode, therefore, if as an example he desires to insert of the characters in double horizontal width and in double width it is sufficient to lower the key ",," (decimal point) and the key "R.M." before the insertion of the characters of the description to program.

G. On "E.C", "00", "000", ",", "R.M." and "X" keys it isn't possible to set alphabetic characters, the numeric keys can be used for numeric characters input.
This programming is very important and is fundamental for all the ways of operation of ECR.

It exists 10 Status that are 10 groups of various options each status will come called "Status 1, Status 2,..., Status 10"; the meant one of the aforesaid Status is explained in the successive pages while the general procedure of programming is following:

```
<table>
<thead>
<tr>
<th>KEY</th>
<th>(NNN)</th>
<th>X/time</th>
<th>(A B C D E F G H)</th>
<th>SUB·TOTAL</th>
<th>#/NS</th>
</tr>
</thead>
</table>
```

NNN = Status System number (551~565, 551 = S.S1, ..., 559 = S.S.9, 560 = S.S.10)

A, B, ... H = 0 or 1, depending from the setting needed

Note: It is possible to program also one Bit's status for time: inserting 2 it will not come modified the setting previously done on the bit of the Status in object, in this way it will be possible to change a Status setting without to modify all the others Bits pertaining to the same Status System.

**STATUS SYSTEM 1 (551 -- X/TIME -- ABCDEFGH --- SUB·TOTAL )**

A : 0 = X and Z reports are zero skipped
1 = X and Z reports aren't zero skipped

B : 0 = Sales composition rate isn't printed on hourly sales report
1 = Sales composition rate is printed on hourly sales report

C : 0 = Sales composition rate isn't printed on department report
1 = Sales composition rate is printed on department report

D : 0 = Receipt "TOTAL" line printed with normal height
1 = Receipt "TOTAL" line printed with double height

E : 0 = VAT data not printed automatically (only by VAT print key) on receipt
1 = VAT data printed automatically on receipt

F : 0 = Items are printed on double receipt (until 99 registrations)
1 = TOTAL AMOUNT is printed on double receipt

G : 0 = Item counter not printed on receipt
1 = Item counter printed on receipt

H : 0 = VAT&TAX status isn't printed on receipt and journal.
1 = VAT&TAX status is printed on receipt and journal.

**STATUS SYSTEM 2 (552 -- X/TIME -- ABCDEFGH -- SUB·TOTAL )**

A : 0 = Double receipt possible (by TOT 3 key)
1 = Double receipt not possible

B : 0 = SUB·TOTAL not compulsory
1 = SUB·TOTAL compulsory

C : 0 = Buzzer at key pression
1 = Not buzzer at key pression

D : 0 = transaction data is not sent to PC during training mode.
1 = Transaction data is sent to PC during training mode

E : 0 = Store logo isn't printed on receipt
1 = Store logo is printed on receipt

F : 0 = Store logo is printed on the top of receipt
1 = Store logo is printed at the end of receipt

G : 0 = Hallo logo isn't printed on receipt
1 = Hallo logo is printed on receipt

H : 0 = Hallo logo is printed on the top of receipt.
1 = Hallo logo is printed at the end of receipt.
STATUS SYSTEM 3 (553 --- X/TIME --- ABCDEFGH --- SUB-TOTAL)

A : 0 = No sale operation is allowed.
     1 = No sale operation is not allowed.

B : 0 = PB code printed on receipt and journal
     1 = PB code not printed on receipt and journal

C : 0 = No sale operation is not allowed during the transaction
     1 = No sale operation is allowed during the transaction

D : 0 = "Net-sales" amount not printed on receipt in case of %, (-) and (+)
     1 = "Net-sales" amount printed on receipt in case of %, (-) and (+)

E : 0 = Cancelled items are printed by Transaction VOID
     1 = Total cancelled is printed by Transaction VOID

F : 0 = PLU code not printed on journal and receipt
     1 = PLU code printed on journal and receipt

G : 0 = training mode is prohibited
     1 = training mode is allowed

H : 0 = Linked dept. description isn't printed at PLU entry and PLU report
     1 = Linked dept. description is printed at PLU entry and PLU report

STATUS SYSTEM 4 (554 --- X/TIME --- ABCDEFGH --- SUB-TOTAL)

A : 0 = Sub-Total %, (-) and (+) operations are subtracted (added) from (to) dept totals
     (only one % or (·) or (+) operation after Sub-Total)
     1 = Sub-Total %, (·) and (+) operations aren't subtracted (added) from (to) Depts.
     totals (more % or (·) or (+) operations after Sub-Total)

B : 0 = %, (·) and (+) operations detracted (added) from (to) PLU total
     1 = %, (·) and (+) operations not detracted (added) from (to) PLU Total

C : 0 = Prints daily and P-T-D reports of Departments and VAT (reports: 10, 11, 12, 13, 14, 15, 110, 111, 112, 113, 114, 115, 31 e 131) with the amounts only in
     local currency.
     1 = Prints daily and P-T-D reports of Departments and VAT (reports: 10, 11, 12, 13, 14, 15, 110, 111, 112, 113, 114, 115, 31 e 131), with the amounts in
     local currency and with the amounts and description linked to F/C1.

D : 0 = Change due is subtracted from C.I.D
     1 = Change due is subtracted from used Total for receipt closing

E : 0 = 2nd Decimal
     1 = 3rd Decimal

F : 0 = decimal point Controlled by S.S.4E
     1 = no decimal point

G : 0 = quantity stored on Departments
     1 = clients stored on Departments

H : 0 = PLU selling data not reset by daily full terminal report (1-·Tot.1)
     1 = PLU selling data reset by daily full terminal report (1-·Tot.1)

STATUS SYSTEM 5 (555 --- X/TIME --- ABCDEFGH --- SUB-TOTAL)

A : 0 = Store and courtesy messages not automatically centered
     1 = Store and courtesy messages automatically centered

B : 0 = CCD is applied with daily transaction report only.
     1 = CCD is applied with all reports.

C : 0 = Compulsory Cash Declaration isn't activated
     1 = Compulsory Cash Declaration is activated

D : 0 = Doesn't print automatically "1 X" on receipt if quantity is 1
     1 = Print automatically "1 X" on receipt if quantity is 1

E : 0 = Consecutive number is not reset by full terminal report (Z 1-CA or 101-CA)
     1 = Consecutive number is reset by full terminal report (Z 1-CA or 101-CA)
F : 0=Clerk secrets codes are reset by daily specific "Z" report
1=Clerk secrets codes are reset by daily full terminal report

G : 0=Clerk entry isn't required for every transaction
1=Clerk entry is required for every transaction

H : 0=Clerk secret code isn't printed on clerk sales report
1=Clerk secret code is printed on clerk sales report

STATUS SYSTEM 6 ( 556 --- X/TIME --- ABCDEFGH --- SUB-TOTAL )

A : 0=PB amount is printed by PB operation
1=PB amount isn't printed by PB operation

B : 0=PB amount is displayed by PB operation
1=PB amount isn't displayed by PB operation

C : 0=NB amount is displayed by PB operation
1=NB amount isn't displayed by PB operation

D : 0=GST amount is printed
1=GST amount is not printed

E : 0=After paper near end signal, only Transaction VOID or finalize by Total are possible
1=In case of paper near end only warning message activation

F : 0="X" report by display is prohibited
1="X" report by display is allowed

G : 0=Split pricing "Q x Q x P" is allowed
1=Split pricing "Q x Q x P" is prohibited

H : 0=Print "*" next to GST item
1=Not print "*" next to GST item

STATUS SYSTEM 7 ( 557 -- X/TIME -- ABCDEFGH -- SUB-TOTAL )

A : not in use

B : 0=Department SHIFT key resets automatically at every transaction
1=Department SHIFT key resets by next SHIFT key pression

C : 0=Store message printed on receipt in other REG mode.
1=Store message not printed on receipt in other REG mode.

D : 0=PLU repeat by PLU key allowed
1=PLU repeat by PLU key not allowed

E : 0=Repeat Counter is displayed
1=Item Counter is displayed

F : 0=Item Counter is displayed at SUB-TOTAL key
1=Item isn't displayed at SUB-TOTAL key

G : 0=Key mode by mechanical Key
1=Key mode by Code and Key

H : 0=First (local) language like default
1=Second language like default

STATUS SYSTEM 8 ( 558 --- X/TIME --- ABCDEFGH --- SUB-TOTAL )

A : 0=PLU repeat doesn't send PLU request in case of external PLU
1=PLU repeat sends PLU request in case of external PLU

B : 0=Registration data aren't sent to PC
1=Registration data are sent to PC

C : 0=VAT
1=TAX

D : 0=Registration data isn't transmitted by No-sale operation
1=Registration data is transmitted by No-sale operation
E :  0=P-T-D reset are allowed by ECR
1=P-T-D reset are allowed by PC command only

F :  0=Keyboard entry is allowed at SLAVE mode
1=Keyboard entry isn't allowed at SLAVE mode

G :  0=Internal PLU mode
1=External PLU mode

H :  0=Internal PB mode
1=External PB mode

Note :  The configuration of the S.S.8 is important in case of ECR connected to an external
device (PC or memory box), since the S.S.8 adapted the operation of the ECR to the
operation of the external device, is fundamental that the setting of this Status comes
defined from the Software House that has developed the software to which the ECR
will be connected.

STATUS SYSTEM 9 ( 559 --- X/TIME --- ABCDEFGH --- SUB-TOTAL )
A :  0 = "BILL" description printed on Slip Printer
1 = "BILL" description not printed on Slip Printer

B :  0 = "BILL" number printed on Slip Printer
1 = "BILL" number not printed on Slip Printer

C :  0 = Department second price disactivated by next key pression
1 = Department second price disactivated automatically at receipt closing

D :  0 =level shift function is not allowed
1 =level shift function is allowed

E :  0=level shift status is effective until next level key depressed.(stay down)
1=level shift status is effective only next (pop up)

F :  0=Doesn't print automatically "1 Q" on Slip Printer if quantity is 1
1=Prints automatically "1 Q" on Slip Printer if quantity is 1

G :  0=PB not automatic line finder
1=PB automatic line finder

H :  0=Not in use.

STATUS SYSTEM 10 ( 560 --- X/TIME --- ABCDEFGH --- SUB-TOTAL )
A :  0=Print the "EURO xxx,xx" line after the "TOTAL" line
1=Don't print the "EURO xxx,xx" line after the "TOTAL" line

B :  0=Show subtotal amount include GST amount.
1=Show subtotal amount exclude GST amount.

C :  0=exchange rate of F/C 1 not printed on
the first line of receipt (before registrations lines)
1=exchange rate of F/C 1 printed on the first line of receipt
(before registrations lines), this line is printed only in case of
F/C 1 exchange rate different from 0 (zero)

D :  0=F/C currency amount blinking on display
1=F/C currency amount not blinking on display

E :  0=Singapore rounding is not allowed
1=Singapore rounding is allowed.

F :  0=NRGT is printed on full terminal report
1=NRGT is not printed on full terminal report.

G :  0=F/C print key possible to print the stub receipt with the EURO detailed amounts
1=F/C print key not possible to print the stub receipt with the EURO detailed amounts

H :  0=European rounding is performed
1=Scandinavian rounding is performed.
9.3 PROTECTED FUNCTIONS (SUPERVISOR)

On G-356 it is possible to define the ability to execute "delicate" operations, as for example %, (+), (-), Void, R.M., reports execution, etc..., like possible operation or not possible operation for every Clerk on the ECR.

In this way it will be possible to limit the use of the delicate operations to people authorized to their execution, diversifying also the levels of qualification.

It exists a code defined like "SUPERVISOR" that can set up by the following programming, by the use of this code it will be possible to execute all "delicate" operations, replacing the inhibited operator during the receipt, this to give the possibility to the responsible person to control operations of Void, E.C., Reduction in price, etc.... The "Supervisor" code can be activate on G-556 by the Clerk key.

9.3.1 PROGRAMMING SUPERVISOR CODE (Key in "PRG")

```
| P | (3) | X/time | (ABCDEF) | SUB-TOTAL |
|   |     |        | (ABCDEF) |          |
|   |     |        | SUB-TOTAL | #/NS     |
```

The first and second formulation of the "Supervisor" code, must to be equal in order to make that the programming of the code comes accepted from the ECR. During inputting the “Supervisor” code, it does not come neither visualized nor printed from the ECR for security reasons.

ABCDEF = "Supervisor" code

Es. : ABCDEF (It is not necessary to insert all and the six figures ABCDEF)

123456 = 123456
3549 = 3549
DEFAULT : 4 = 4

The codes indicated here below, cannot be used in the ECR like "SUPERVISOR Code":

| 0 | 1 | 2 | 3 | 112233 | 332211 | 9999 |

9.3.2 SUPERVISOR enforce PROGRAMING

The following key can be set to supervisor enforcement.

- Dep’t (-),(+)
- R.M TOTAL1-9
- E.C P/O1,P/O2
- VOID A-SHIFT~E-SHIFT
- %1,%2,%3 Transaction void

Programming

```
| P | (34) | X/time | P | #/NS |
|   |     |        |   |      |
```

cancel the supervisor enforcement

```
| P | (35) | X/time | P | #/NS |
|   |     |        |   |      |
```
9.4 NUMBER OF DEPARTMENTS

The ECR can use until 50 departments that can be placed on the keyboard and be recalled or directly or eventually through key "SHIFT".

\[
P(61) \quad X/TIME \quad (A \ B) \quad SUB\cdot TOTAL \quad 2/NS
\]

A B = number of departments (from 01 to 50)

If the number of departments programmed is NR, the use of key "SHIFT" before the pression of the dept. n. XY, will assign the transaction to dept. number : XY + (NR/2).

Eg. : for example if the number of departments programmed is 20, and key "SHIFT" is pressed from the dept. number 11, the transaction comes reported to the dept. number 10 + (20/2) = 20.
9.5 STATUS AND PRICE OF DEPARTMENTS

(1) to repeat for several departments with eventual use SHIFT KEY

<table>
<thead>
<tr>
<th>Key</th>
<th>Dept Status N.1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A Single item dept</td>
</tr>
<tr>
<td>0</td>
<td>NO</td>
</tr>
<tr>
<td>1</td>
<td>YES</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>3</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>NO</td>
</tr>
<tr>
<td>5</td>
<td>YES</td>
</tr>
<tr>
<td>6</td>
<td>No</td>
</tr>
<tr>
<td>7</td>
<td>Yes</td>
</tr>
</tbody>
</table>

B: Tax Status

<table>
<thead>
<tr>
<th>Code</th>
<th>VAT Version</th>
<th>TAX Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>1</td>
<td>VAT1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>VAT2</td>
<td>No</td>
</tr>
<tr>
<td>3</td>
<td>VAT3</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>VAT4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>VAT5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>VAT6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: "single item", VAT 3, HALO = 60,00, LALO = 30,00, programmed price = 35,00

ABCDEF PPPPPP = 136434 003500

Supervisor programmed

Default: Dept. Status = 0

A=single/list, +,-, GST

VAT code = 0

HALO = 09

LALO = 00

Price = 0.000,00

Note: ⇒ by the input of 11 digits "BCDEFGPPPPPP" are programmed,
        ⇒ by the input of 6 digits "PPPPPP" is programmed
        ⇒ to every VAT code it must correspond the VAT aliquot programmed
        ⇒ if the max. value of the first figure ("C") is set to "9", it will be possible to record
          prices that can arrive to the max of 9.000.000,00; therefore 9, followed from
          the number of zero previewed from "D", Eg.: CD = 45, maximum value that
          can be registered = 400,00.

If instead "C" comes set to "0", it will be possible to record prices that can arrive
          to a maximum of 9.999.999.99; therefore 9 followed from the previewed
          number of 9 from "D", Eg.: CD = 05, maximum value that can be
          registered = 9.999.99.
(2) Programming of second price on Departments to repeat for several departments with eventual use SHIFT KEY

9.6 DEPARTMENT GROUPS PROGRAMMING
Several the depts. can be associated to homogenous Groups this to obtain the managerial data on the sale activities: for example such Groups can correspond to the same category of commerce or the same suppliers or to the various fields of one same store.

Above Groups are 4: Group 1, Group 2, Group 3, Group 4.

for one same Group

9.7 DATE AND TIME
The programming of the Date comes made, normally, only during ECR installation because the ECR has an "internal calendar" that can manage also about of the bissextile years.

Note: before varying the departments/groups linking it is necessary to perform a complete Groups data reset either daily reset than periodic (Code Relationship 1 and 110 - see par. 15.3.1).

Note: It's possible to visualize the date and the time by pressing the key "X/Time" in operating mode "Reg." (after 3 min. of ECR don't use the time will be visualized automatically by ECR on display).
9.8 STATUS OF THE TOTALS OF CLOSING

It's possible to define the ways of operation of the Totals "TOTAL 1 (Cash)", "TOTAL 2 (Credit)", "TOTAL 3", "TOTAL 4", and "TOTAL 5".

In particular it's possible to define if a Total of closing involves:
- Status A: "add to Cash, "add to Credits" or "add to other"
- Status B: "the possibility to execute the over tendering and the split tendering"
- Status C: "the enforcement to execute the tendering"
- Status D: "open / not open the drawer"

The procedure of programming of the Status A, B, C and D uses the codes of following tables:

<table>
<thead>
<tr>
<th>A</th>
<th>Add to</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Add to the totalizer &quot;C.I.D. 1&quot;</td>
</tr>
<tr>
<td>2</td>
<td>Add to the totalizer &quot;Credit&quot; (not paid)</td>
</tr>
<tr>
<td>3</td>
<td>Add to other (No Cash, No Credit)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B</th>
<th>Over tendering</th>
<th>Split tendering</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Allow</td>
<td>Allow</td>
</tr>
<tr>
<td>1</td>
<td>Disallow</td>
<td>Allow</td>
</tr>
<tr>
<td>2</td>
<td>Allow</td>
<td>Disallow</td>
</tr>
<tr>
<td>3</td>
<td>Disallow</td>
<td>Disallow</td>
</tr>
</tbody>
</table>

Even if when B=3, just tendering is allow.

<table>
<thead>
<tr>
<th>C</th>
<th>Tendering compulsory</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Not compulsory</td>
</tr>
<tr>
<td>1</td>
<td>Compulsory</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D</th>
<th>Drawer opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Allow Drawer opening</td>
</tr>
<tr>
<td>1</td>
<td>Disallow Drawer opening</td>
</tr>
</tbody>
</table>

PROGRAMMING:

```
TOTAL1 Cash 1000
TOTAL2 Credit 3101
TOTAL3 Total 3 1000
TOTAL4 Total 4 1000
TOTAL5 Total 5 1000
```

Default:

```
TOTAL1 Cash 1000
TOTAL2 Credit 3101
TOTAL3 Total 3 1000
TOTAL4 Total 4 1000
TOTAL5 Total 5 1000
```

P (A B C D) TOTAL 1/TOTAL 5 #/NS
9.9 FOREIGN CURRENCY EXCHANGE RATE AND STATUS

EXCHANGE RATE:

to repeat for other Foreign Currency

\[ \begin{align*}
\text{P Currency Key} & \quad \text{TTT TTT TTT T} \\
\text{TTT TTT TTT T} & \quad \text{Currency Key} \\
\text{TTT TTT TTT T} & \quad \text{#/NS}
\end{align*} \]

TT.T = amount of the exchange rate, Max. 8 digits plus decimal point.

Examples:

- 1¥ = 0.00869€
- 1£ = 1.565€
- 1$ = 1.06956€
- 1€ = 0.9349$ 

Note: It's very important to take in consideration that the exchange rate programmed on FOREIGN CURRENCY 1 will be the exchange rate used from the ECR to prints on receipts and on stub receipts.

STATUS:

to repeat for other Foreign Currency

\[ \begin{align*}
\text{P Currency Key} & \quad \text{(ABC) TTTT TTT T} \\
\text{TTTT TTT T} & \quad \text{Currency Key} \\
\text{TTTT TTT T} & \quad \text{#/NS}
\end{align*} \]

A: Currency rounding, from 0 to 4

- 0.5/4 on 1°/3° decimal
- 1 up on 1°/3° decimal
- 2 up on units/2° decimal
- 3 up on tens/1° decimal
- 4 up on hundreds/units

B: 0 = Foreign currency with two decimals ($, P, etc...)
- 1 = Foreign currency without decimals (¥en, etc...)

C: 0 = Normal exchange calculation "currency = local Amount ÷ Exchange rate"
- 1 = Calculation inverted "currency = local Amount X Exchange rate"

9.10 VAT RATE

It's possible to program until 6 different rates for VAT that can be associated to departments through the correspondent code (see also par. 9.5).

\[ \begin{align*}
\text{P Currency Key} & \quad \text{(4A) X/Time} \\
\text{X/Time} & \quad \text{(MMNN) Sub Total} \\
\text{MMNN} & \quad \text{Sub Total} \\
\text{Sub Total} & \quad \text{#/NS}
\end{align*} \]

A: = 1, = 2..., = 6 respectively for VAT codes 1, 2,...,6

MMNN: VAT aliquot with eventual decimals (eg. 9%, MMNN = 0900)

Note: before to change a VAT aliquot it is better to perform a daily and P-T-D Transaction report reset (Reports Code 1 and 130 - see par.15.3.1)

9.11 TAX RATE

to repeat for other TAX codes

\[ \begin{align*}
P \\
(11N) \\
\text{X/Time} \\
\text{(ABCDEF)} \\
\text{SUB TOTAL} \\
\text{#/NS}
\end{align*} \]

N: Tax rate code(1 ~ 2) 
A: Rounding Factor 0=Discarding 
BCDEFF: percent rate(00.000—99.999%) 
5 = Round off 
9 = Round on
9.12 GST RATE

\[ \text{P} (114) \times \text{Time} (\text{ABCDEF}) \quad \text{SUB TOTAL} \quad \# / \text{NS} \]

A: Rounding Factor 0=Discarding
5=Round off
9=Round on

BCDEF: percent rate (00.000—99.999%)

9.13 PERCENTAGES

The percentage keys can be programmed to be used after item and/or after the "SUBTOTAL"; moreover the polarity can set as (+) or (-) and a rate can be set for eventual direct callback.

\[ \text{P} \text{ KEY} \quad (A B C D E F G) \quad \% \text{ KEY} \quad \# / \text{NS} \]

<table>
<thead>
<tr>
<th>A</th>
<th>(+) or (-)</th>
<th>ST%</th>
<th>Item%</th>
<th>Print format</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>(+)</td>
<td>YES</td>
<td>YES</td>
<td>50 R</td>
</tr>
<tr>
<td>1</td>
<td>(-)</td>
<td>YES</td>
<td>YES</td>
<td>-12.345%</td>
</tr>
<tr>
<td>2</td>
<td>(+)</td>
<td>NO</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(-)</td>
<td>NO</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(+)</td>
<td>YES</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(-)</td>
<td>YES</td>
<td>NO</td>
<td></td>
</tr>
</tbody>
</table>

B: VAT version: NOT USE

TAX version

| B  | Tax1 | Tax2 | "Before" means tax is calculated on the item or sub total before the % is taken. |
|----|------|------|                                                                                 |
| 0  | Before | Before | "after" means tax is calculated on the item or sub total after the % is taken.    |
| 1  | After  | Before |
| 2  | Before  | After  |
| 3  | After  | After  |

CDEFG: percentage rate (from 00,000% to 99,999%)

Example: negative percentage with programmed rate of 10%, working either after the SUBT. than after the item registration, ABCDEF = 1010000
9.14 PLU : STATUS

It is possible, on G-356, to execute the following procedure of programming for every PLU that must be memorized on the ECR:

PROGRAMMING:

\[
\begin{array}{c}
\text{P} \quad (\text{CCC...C}) \quad \text{PLU} \quad (\text{A B C D E F G H I}) \quad \text{DEP'T} \quad \#/\text{NS}
\end{array}
\]

CCC...C = PLU code (Max. 12 digits + C/D)
A = PLU's Status (from 0 to 2 see table below)
BCDEFGHI = PLU's price (8 digits)

PLU's STATUS "A":

<table>
<thead>
<tr>
<th>Status</th>
<th>Single item</th>
<th>+/-</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No</td>
<td>+</td>
</tr>
<tr>
<td>1</td>
<td>Yes</td>
<td>+</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
<td>-</td>
</tr>
</tbody>
</table>

Note: The sequence (CCC...C)-- PLU can be replaced from the reading by scanner of the bar code of the product or from the pression of the hard PLU key.

9.14.1 PLU : DESCRIPTIONS

On PLUs it is possible to program 12 characters for description for each PLU.

PROGRAMMING

To repeat for several PLU's codes

\[
\begin{array}{c}
\text{P} \quad (\text{CCC....C}) \quad \text{PLU} \quad \text{X/TIME} \quad (\text{YY..YY}) \quad \text{X/TIME} \quad \text{PLU} \quad \#/\text{NS}
\end{array}
\]

only if description inferior to 12 characters

CCC...C : PLU code (Max. 12 digits)
YYY...Y : description to insert by using the function of input alphabetical characters (12 characters).

Note:

⇒ in order to cancel the last character input it is necessary to press the "E.C." key.
⇒ in order to obtain the characters in double width it is necessary to press the key "," (decimal point) before the characters to program.
⇒ in order to obtain the small characters it is necessary to press the "R.M." key before the characters to program.
⇒ the space corresponds to the key "00" (double zero).
⇒ The sequence (CCC... C)-- PLU can be replaced from the reading by scanner of the bar code of the product or from the pression of hard PLU key.

### Example Print Format

<table>
<thead>
<tr>
<th>Link</th>
<th>Dept'</th>
<th>Status</th>
<th>PLU Code</th>
<th>Descriptor</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PLU</td>
<td>2.54</td>
</tr>
<tr>
<td>#2</td>
<td>2</td>
<td>02</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.14.2 PLU : PRICE CHANGING

To repeat for several PLU codes

```
(PLU code)  PLU (P P ... P) PLU #/NS
```

PP...P : PLU's price (8 digits)

Note : These variations influence PLU's reports.

The sequence (PLU code) —PLU can be replaced from the reading through scanner of the bar code of the product or from the pressing of hard PLU key

9.14.3 PLU : DELETING

to repeat for several PLU codes

```
(PLU code)  PLU VOID #/NS
```

Note : This operation is possible only after to have executed a daily PLU selling reset and eventually a PLU Stock reset ; it influences obviously all the PLU's reports.

The sequence (PLU code) —PLU can be replaced from the reading by scanner of the bar code of the product or from the pressing of the hard PLU key

```
#02  2 02
PLU  2.54
```

9.14.4 HARD PLU

It's possible to set directly a PLU code (internal PLU or external PLU on PC) on a key in the ECR's keyboard, this to have the possibility to call a PLU with the simple pressing of a key without having to input codes or to read BAR-CODE with scanner. In order to refer the PLU code to call through the key pressing it will be necessary to proceed like described here below with the procedure of configuration of the keyboard already described in paragraph 6.

1.4. This operation will assign exclusively the code to recall the key and therefore all the other programmings concerning to the PLU, in case of internal PLU, must be executed like already described in paragraphs 6.11, 6.12 and 6.13 with the difference that rather than to use the procedure :

```
(PLU code) —PLU or reading of PLU bar code with the scanner, it'll be possible to press directly the key to which the code of the PLU has been assigned.
```

ALLOCATION OF PLU CODE ON A KEY: to repeat for other PLU

```
(99) X/TIME (CCC..C) X/TIME (T) #/NS
```

CCC..C = PLU's code refer to the key

T = key to which link the PLU code

Note : If it is possible to link to the direct key pressing on keyboard all the types of PLU available on G-356 (internal PLU and external PLU)

F the sequence (CCC..C) —X/Time can be replaced from the reading through scanner of the bar code of the product.
9.14.5 PLU STOCK ADJUSTMENT

It's possible to adjust the stock quantity of PLU with variations either positive (load) than negative (drainage); obviously also the sale transactions (receipts) modify the stock quantity.

To repeat for several PLU codes

\[
\begin{array}{cccc}
\times & (99) & \text{TOT.2} & (Q\ldots Q) \\
\text{KEY} & & \text{X/TIME} & (\text{PLU code}) \\
& & & \text{PLU} \\
& & & \text{TOT.1}
\end{array}
\]

\text{R.Mkey in Case of} (-)

\[
Q\ldots Q : \text{ quantity (until 6 entire figures plus 2 decimals)}
\]

Examples

\begin{align*}
12 \text{ pz.} & \rightarrow Q\ldots Q = 12 \\
123.85 \text{ Kg.} & \rightarrow Q\ldots Q = 123.85
\end{align*}

Note: ⇒ sequence (PLU code) \text{PLU} can be replaced from the reading through scanner of the bar-code of the product or from the direct pressure of the key

Hard PLU.
9.14.6  PLU chain(arrangement)

It's possible to link until nine PLU codes to a PLU arrangement that will activate the callback automatically and also the selling data registration of the PLU linked together to the same PLU group; it's possible to create on G-356 until nine PLU chain.

It's possible to insert and to create PLU arrangement that can recall all kinds of PLU's managed from the ECR (internal PLU and external PLU on the PC).

PLU arrangements, can be recalled by the insertion of the code of the arrangement (from 1 to 9) and the pression of the key "PLU arrangement by code" or by the direct pression of the key linked to the PLU arrangement "Hard PLU arrangement X" that it is wanted to be recalled, see also par. 9.1 KEYBOARD LAYOUT CONFIGURATION.

Obviously, like already indicated in the previous page relatively to Hard PLU, than all the other programmings concerning to the PLU, in case of internal PLU in the ECR's memory, must be executed like already described in paragraphs 9.14.1, and 9.14.2.

PLU CODES LINKING TO PLU ARRANGEMENT:

<table>
<thead>
<tr>
<th>X</th>
<th>PLU arrangement code (from 1 to 9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCC..C</td>
<td>PLU code to link to PLU arrangement (Max. 12 digits + C/D)</td>
</tr>
</tbody>
</table>

Max nine PLUs for each arrangement.

Note:
⇒ it is possible to link to a PLU arrangement all the types of PLU available on G-356 (internal PLU and external PLU).
⇒ the operation described above links only the PLU's codes to an arrangement on the ECR, all the programmings eventually concerning to an internal PLU must be made like described in the previous paragraphs.
⇒ the sequence (CCC..C) PLU can be replaced from the reading through scanner of the bar-code of the product.
⇒ the registration of a PLU arrangement cannot be cancelled by the pression of the "E.C." key, it could be only corrected by the use of the keys "VOID" or "R.M." one PLU at time.

Print form

```plaintext
PLU chain 1
#1
#2
#6
#9
```
9.15 **PB CODES**

The ECR can execute the registrations reported to a customer code; in this way it is possible to memorize and to manage the "balance" of several customers codified with a number (composed by until 4 digits).

Being able to use this type of function it is necessary to define the codes that they will be then eventually used.

The programming of the customer codes can be executed or one code at time (case A) or by sequential codes blocks (case B).

**CASE "A" one PB code PROGRAMMING**

To repeat for all the PB

\[
\text{P} \rightarrow (XXXX) \rightarrow \text{PB} \rightarrow \#/NS
\]

XXXX = PB code (Max. 4 digits)

**CASE "B" PB PROGRAMMING by sequential code blocks**

\[
\text{P} \rightarrow (XXXX) \rightarrow \text{NH} \rightarrow (YYYY) \rightarrow \text{PB} \rightarrow \#/NS
\]

XXX...X = First PB code (Max. 4 digits)

YYY...Y = Last PB code (Max. 4 digits)

9.15.1 **PB CODES : CANCELLATION**

to repeat for each PB code that must be cancel

\[
\text{P} \rightarrow (XXXX) \rightarrow \text{PB} \rightarrow \text{VOID} \rightarrow \#/NS
\]

XXXX = PB code

Note: Being able to cancel a PB code, it is necessary that the relative balance is zero; the balance can be annulled or in "Reg" mode, through a Total of closing, or with a zero setting in "Z" mode.

9.15.2 **SUB-TOTAL HALO PROGRAMMING**

\[
\text{P} \rightarrow \text{X/time} \rightarrow (NN...N) \rightarrow \text{Sub Total} \rightarrow \#/NS
\]

NN...N : SUB-TOTAL HALO (Max. 9,999,999,99)

default = 9,999,999,99

Examples:

- S.T. HALO 2,500,00 \* NN...N = 250000
- S.T. HALO 15,000,00 \* NN...N = 1500000.
9.16 **CLERK CODES**
It's possible to program on the ECR, until 9 "secrets" codes for clerks (the cashiers, waiters...).
- Each code can be composed of max. 4 digits; last digit of the code must be equal to 1, or to 2, or to 3... or to 9 respectively for the clerks from 1 to 9.
- So the Clerks codes will have to be programmed and subsequently recalled in the following way, before codes programming the previous codes memorized must be reset by the "Z" report below described:

<table>
<thead>
<tr>
<th>Clerk (code)</th>
<th>Clerk CODE key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eg.: 2234 for the Clerk 4, 5672 for the Clerk 2, etc...</td>
<td></td>
</tr>
</tbody>
</table>

- The programmed Clerks codes can be deleted automatically after every daily full terminal reset (Z-1-Tot.1), this depends from Status System 5F setting.
- The Clerks' codes can in any case be cancelled independently from the Status System 5F setting, by following "Z" report (following "Z" report will be possible only after the daily full terminal reset "Z-1-Tot.1"):

<table>
<thead>
<tr>
<th>Clerk (code)</th>
<th>Clerk CODE key</th>
</tr>
</thead>
</table>

- In "Reg." mode, if the key "Clerk Code" will be directly pressed, the Clerk at the moment active will be immediately inactive; on the ECR's display it'll appear "OP" and no operation of registration will be possible until a clerk code input.

9.17 **CLERKS NAMES : PROGRAMMING**
to repeat for each clerk

<table>
<thead>
<tr>
<th>Clerk (code)</th>
<th>Clerk CODE key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eg.: 2234 for the Clerk 4, 5672 for the Clerk 2, etc...</td>
<td></td>
</tr>
</tbody>
</table>

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</table>

- In "Reg." mode, if the key "Clerk Code" will be directly pressed, the Clerk at the moment active will be immediately inactive; on the ECR's display it'll appear "OP" and no operation of registration will be possible until a clerk code input.

9.17 **CLERKS NAMES : PROGRAMMING**
to repeat for each clerk

<table>
<thead>
<tr>
<th>Clerk (code)</th>
<th>Clerk CODE key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eg.: 2234 for the Clerk 4, 5672 for the Clerk 2, etc...</td>
<td></td>
</tr>
</tbody>
</table>

- In "Reg." mode, if the key "Clerk Code" will be directly pressed, the Clerk at the moment active will be immediately inactive; on the ECR's display it'll appear "OP" and no operation of registration will be possible until a clerk code input.

**Note:**
- in order to cancel the last character input press the "E.C." key
- to obtain double width characters it is necessary to press the key ",," (decimal point) before the characters to program
- in order to obtain the small characters it is necessary to press the key "R.M."
- the space corresponds to double zero key "00".
9.18 STORE/BOTTOM (COURTESY MESSAGE) PROGRAMMING

It's possible to program until 9 lines of 20 characters, these 9 lines can be divided between STORE message and "Courtesy Message" (Eg.: 5 lines for Store message and 4 lines for "Courtesy Message"), the sum of (Store message lines) + (Courtesy Message lines) must be max. equal to 9 lines or it can be lower than 9 lines. So, it will be possible to define, through the following programming, how many lines are used for the STORE message and how many for the Courtesy Message (the sum cannot be higher than 9 lines), it's possible also to define the number of white lines between the STORE/HALLO LOGO and the receipt data printing:

\[
\text{P} \quad (5) \quad X/TIME \quad (AB \ CD \ E \ RM) \quad \text{Sub Total} \quad \#\text{NS}
\]

**KEY**

A : number of white lines of advance before (above) of the programmable graphical STORE LOGO (from 0 to 9, default = 0)

B : number of white lines of advance after (below) of the programmable graphical STORE LOGO (from 0 to 9, default = 3)

C : number of white lines of advance before (above) of HALLO LOGO (fix LOGO), (from 0 to 9, default = 3)

D : number of white lines of advance after (below) of HALLO LOGO (fix LOGO), (from 0 to 9, default = 0)

E : 0 = three white lines before "Courtesy message" (default)
    1 = no white lines before "Courtesy message"

R : number of lines for Store message (from 0 to 9) \( R + M \) sum cannot be higher than 9 lines

M : number of lines for "courtesy message" (from 0 to 9)

At this point, in order to program the characters of each line, follow the procedure under described here:

\[
\text{P} \quad (1 \ A) \quad X/TIME \quad (Y \ Y \ Y \ ... \ Y \ Y) \quad X/TIME \quad \text{Sub Total}(R) \quad \#\text{NS}
\]

**KEY**

20 characters

A : =1 or =2... or =N depending from the line number setting for STORE message andCourtesy Message, Eg.: if R=4 and M=3, by the line numbers from 1 to 4 the Store message will be programmed and by line numbers from 5 to 7 Courtesy Message will be programmed

YY.Y : heading to input by using the function of alphabetical characters input.

Note:
- \( \Rightarrow \) in order to cancel last character input press "E.C." key
- \( \Rightarrow \) in order to obtain a line to double height, press "000" key (triple zero)
- \( \Rightarrow \) immediately before to input the characters of the line to program
- \( \Rightarrow \) in order to obtain the characters in double width press the key "," (decimal point) immediately before the characters to program
- \( \Rightarrow \) in order to obtain the small characters press the "R.M." key immediately before the characters to program
- \( \Rightarrow \) the space corresponds to "00" key (double zero)
- \( \Rightarrow \) like default the ECR uses three white lines after STORE LOGO printing and three white lines before HALLO LOGO printing
9.19  HAPPY RECEIPT FUNCTION
The ECR can be predisposed so, in fortuitous mode, it can send to display a kind of message like "HAPPY RECEIPT " accompanied from a particular acoustic modulation with the duration of some seconds. This function can be used in order to activate promotions at the ECR point (gifts etc.), it's possible to define the number of daily happy receipt and the medium frequency of the signaling.

\[
\text{P} \quad \text{KEY} \quad \text{X/time} \quad (\text{MMMM NNNN}) \quad \text{SUB·TOTAL} \quad \text{#/NS}
\]

MMMM : maximum number of happy receipts during a day
NNNN : happy receipt issue rate.
If NNNN is set to 0001, every receipt become happy receipt.

9.20.1  DESCRIPTION OF THE FUNCTIONAL KEYS
Quite all the functional keys can be linked to a personalized description that it will print on receipts and on the reports.
Functional keys for which is previewed the programming defined more ahead are :

- DEPARTMENT KEYS
- TOTAL 1, 2, 3, 4, 5
- % KEYS
- FOREIGN CURRENCY KEYS
- R/A 1, 2, 3
- DEBIT
- P/O 1, 2
- DEPOSIT
- (-)
- (+)

to repeat for other functional keys

\[
\text{P} \quad \text{X/time} \quad (\text{YY YY Y Y ............. Y Y}) \quad \text{KEY XX} \quad \text{#/NS}
\]

KEY 12 characters
YY..Y : description to input by using the function of input alphabetical characters by keys (max. 12 characters).
KEY XX : key where to set the description.
Note:
⇒ in order to cancel last character input press "E.C." key
⇒ in order to obtain the characters in double width press the key "," (decimal point) immediately before the characters to program
⇒ in order to obtain the small characters press the "R.M." key immediately before the characters to program
⇒ the space corresponds to "00" key (double zero)
9.20.2 Special descriptor programming

(1) GST description

\[ P \text{ mode} 341 \text{ X/Time } \text{ (YY...YYYY) X/time subtotal #/NS} \]
max 12 characters

(2) TAX name

\[ P \text{ mode} 32N \text{ X/Time } \text{ (YY...YYYY) X/time subtotal #/NS} \]
max 12 characters

N: TAX code (1, 2)

(3) VAT/TAX description

\[ P \text{ mode} 33N \text{ X/Time } \text{ (YY...YYYY) X/time subtotal #/NS} \]
max 12 characters

N: VAT/TAX code (1~4)

1=VAT net sales &
2=non taxable VAT
3=taxable amount
4=non taxable TAX: total amount of non taxable items

(4) R.M description

\[ P \text{ mode} 352 \text{ X/Time } \text{ (YY...YYYY) X/time subtotal #/NS} \]
max 12 characters

(5) VAT description

\[ P \text{ mode} 36N \text{ X/Time } \text{ (YY...YYYY) X/time subtotal #/NS} \]
max 12 characters

9.21 MACHINE NUMBER PROGRAMMING

\[ P \text{ mode} \text{ (1) X/time } \text{ (N...N) Sub Total #/NS} \]
KEY max 4 digits

N...N : ECR (machine) number
9.22 Rounding

<table>
<thead>
<tr>
<th>P</th>
<th>(2)</th>
<th>X/time</th>
<th>(CD)</th>
<th>Sub Total</th>
<th>#/NS</th>
</tr>
</thead>
</table>

**KEY**

- **C**: rounding code
  - 0 "down",
  - 5 "5/4",
  - 8 "5/10"
  - 9 "up"

- **D**: digit on which the rounding must be calculated
  - 0 first decimal if currency without decimals or third decimal if currency with decimals (EURO)
  - 1 units if currency without decimals or second decimal (hundredths) if currency with decimals (EURO)
  - 2 tens if currency without decimals or first decimal (tenth) if currency with decimals (EURO)
  - 3 hundreds if currency without decimals or units if currency with decimals (EURO)

**Note**: ⇒ All the rounding calculated on the first integer digit (or second decimal), second integer digit (or first decimal), third integer digit (or first integer digit), fourth integer digit (or second integer digit) and on fifth integer digit (or third integer digit) will activate the printing on the receipt of the amount of the rounding, before "TOTAL" and with the description of "ROUNDING."

**Examples**: In case of CD = 53 and currency with two decimals, the receipt's SUB-TOTAL amount of 12.00 € will be rounded to 10.00 €, the SUB-TOTAL amount of 15.50 € will be rounded to 20.00 € and the SUB-TOTAL amount of 14.80 € will be rounded to 10.00 €.

- **In case of 5/4 rounding, C = 5**:
  - the digits 0, 1, 2, 3 and 4 will became 0 (zero)
  - the digits 5, 6, 7, 8 and 9 will became 10

- **In case of 5/10 rounding, C = 8**:
  - the digits 0, 1 and 2 will became 0 (zero)
  - the digits 3, 4, 5, 6 and 7 will became 5
  - the digits 8 and 9 will became 10

9.23 SLIP MAX. LINES PROGRAMMING

It's possible to limit the maximum number of printed lines on every printing sheet module on additional printer (Slip Printer) so it'll be possible to adapt the documents printing to the customer used formats (Invoices, Bill, Cards Customer...).

When, during the printing of a document on Slip, it comes caught up the programmed lines limit, the Slip prints message "***CONTINUE***" and the ECR'll show the message "BILL COMPLETE", all the operation on ECR will be interrupted with the message on display and an acoustic signal.

At this point it is necessary to replace the sheet module with a new one and to press "CL" key three times; the Slip Printer will print message "***CONTINUATION ***" and, of continuation, all the operations memorized on the ECR's buffer will be printed.

**KEY**

- **P** (4) | **X/time** | (N N) | Sub Total | #/NS |

**NN**: lines number (from 02 to 99)
9.24 NUMBER OF WHITE LINES BEFORE THE PRINTING ON SLIP

It's possible, on G-356, to set a number of advance lines (white lines) that the ECR will execute every time that will come activated the printing of a document on Slip Printer (Invoice, Bill, Card customer).

The definable number of white lines will be useful to allow that the machine executes in automatic mode the advance of the preprinted module, with the purpose to begin the printing of the document, by the Slip Printer, after the eventual "heading" or "preprinted graphical Logo" on the module from by the printing office.

The lines of advance setting by the procedure described here below will come always executed to the beginning of a document printing on Slip Printer.

It will be possible to add other lines of advance to the number of lines defined in the programming inserting, before lowering the key Invoice, Bill or Slip, the number of white lines that it is desired to add to those already defined fixed : this operation could be executed directly with the key in "Reg." mode (Eg.: 20 · Invoice ....), the inserible number of lines in this modality can go from 1 to 20.

NN : number of white lines before the beginning of the printing of the documents on Slip Printer, from 00 to 20.

9.25 COUNTER AND TOTALIZER OF BILL ADJUSTMENT

Every time that a Bill is printed the ECR increases the periodic counter and the relative periodic totalizer (take note that the periodic counter corresponds to the progressive number printed on the document).

In some cases a manual correction of such values can become necessary (cancellation of one bill, temporary interruption of the operation of the ECR and consequent manual compilation of some documents...).

Two types of manual modification of these datas are possible : Bill counter and Bill totalizer.

A : = 3 P-T-D counter of Bill
    = 4 P-T-D totalizer of Bill

NN..N : numerical value (maximum 6 digits for the counters and maximum 10 digits for the totalizers).
9.26 MEMORY CONFIGURATION AND P.C. CONNECTION : PREMISED

On the ECR it’s possible to use a RAM memory that allows to manage until various PLU and/or PB; in the same memory it is moreover possible to load also the descriptions (fixed messages and keys) in a second language alternative to the English language.

Moreover the connection to Personal Computer is possible for the complete management of the point of sale.

The ECR has a standard base memory of 512 KB installed like default on ECR’s mother board.

The base memory is mainly used in order to contain the base programmings, and therefore it can only partially be used for the containing of the over listed data: in fact only 344KBytes of the memory are available in order to contain the over indicated data (PLU, PB and Second language).

Note: if the system uses the memory of the ECR, we will speak about "internal" PB and/or PLU; when instead the PLU and/or PB are inside the P.C. (On-Line operation), we will say that they are external.

9.27 RAM CONFIGURATION PROGRAMMING

A: PLU type:
1  PLU with 12 characters of description + P·T·D  41
2  PLU with 20 characters of description + P·T·D  49
3  PLU with 15 characters of description + stock+ P·T·D  49
4  PLU with 12 characters of description  30
5  PLU with 20 characters of description  38
6  PLU with 15 characters of description + stock  38

B: Second language
CD: memory blocks number for PLU(max 29)
EF: memory blocks number for PB(max 29)
G: electronic journal
0: not used
1: used

note: 1block=8kB
In case of second language using, 41 blocks will be available for PLU and PB. The following areas are shared in G356.

- **Transaction void area**: 99 line
- **Hold/recall operation area**: same as transaction void area.
- **Electronic journal**: for 5000 line (25 character/line) about 127 Kbyte

If EJ function is operated without occupation EJ area, the error condition will occur. Moreover E191 (no EJ memory) will be displayed.
9.28  PC COM. TERMINAL OPEN/CLOSE PROGRAMMING

\[ P \quad (91) \quad X/time \quad (N) \quad Sub \ Total \quad \#/NS \]

N \(:= 1\) terminal open, \(= 0\) terminal close

Note: If during the ECR/PC connection happens any strange thing that create an anomalous condition (like for example the ECR/PC connection cable broken or the broken of the same PC), the ECR goes in error signaling on display the "PC linking failure"; in this case, if it isn't possible to solve immediately the problem, it'll be possible to switch the ECR in "Stand Alone" mode by pressing three times the "E.C." key in "Reg." mode.

The communication can be activated or disactivated also with one procedure available in "Reg." mode instead than in "P" mode, independently from the mode evidenced here over:

\[ R \quad AA \quad BB \quad CC \quad \square \]

AA BB CC= 11 22 33 terminal open
AA BB CC= 33 22 11 terminal close

9.29  PC COM. BAUD RATE PROGRAMMING PC Scom port Data Bit

It's possible to select various communication speeds:

\[ P \quad (93) \quad X/time \quad (BN) \quad Sub \ Total \quad \#/NS \]

B\( = 0 \) 7 data bit (7,E,1 · ASCII characters via RS-232 until 127)
B\( = 1 \) 8 data bit (8,E,1 · ASCII characters via RS-232 until 255)
N\( = 0 \) 38,400 BPS \(= 3\) 4,800 BPS
N\( = 1 \) 19,200 BPS \(= 4\) 2,400 BPS
N\( = 2 \) 9,600 BPS (default) \(= 5\) 1,200 BPS

9.30  PC COM. TIME-OUT TIME PROGRAMMING

\[ P \quad (97) \quad X \quad (A) \quad Sub \ Total \quad \#/NS \]

A\( = \) from 1 to 8 (default = 4) seconds

Note: This programming allows to define the timeout after which the ECR considers concluded the operation in course, it's useful above all in case of ECR connection with a MODEM, this to have the possibility to manage eventual delays in the communication due to telephone line problems or in case of connection to a PC not dedicated to the ECR.
9.31 SCOM. PORT ASSIGNMENT PROGRAMMING

On G-356 two SCOM port (SCOM1, SCOM2) are available like default; on SCOM1 also the connector is installed like default (for RS-232), like option can be installed another SCOM port (SCOM2).

Each SCOM port can be set by the programming described in this page, either for the type of used protocol than for type of device connect to the SCOM port (PC, Slip Printer, Scanner, etc...).

These configurations are very useful, because they allow to use the SCOM port with the already present connector on ECR (SCOM1), in the necessary modality (Es. Slip Printer, PC-232, etc...), without for this having to make hardware modification in the machine.

CONFIGURATION:

<table>
<thead>
<tr>
<th>KEY</th>
<th>P KEY</th>
<th>X TIME</th>
<th>(A BCD)</th>
<th>SUB TOTAL</th>
<th>#/NS</th>
</tr>
</thead>
</table>

A: Setting code for SCOM1 (from 0 to 6 see table below)
B: Setting code for SCOM2 (from 0 to 6 see table below)
C: Setting code for SCOM3 (from 0 to 6 see table below) OPTION
D: Setting code for SCOM4 (from 0 to 6 see table below) OPTION

SCOM PORTS SELECTION CODES:

<table>
<thead>
<tr>
<th>CODE</th>
<th>Peripherals(protocol)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Not used</td>
</tr>
<tr>
<td>1</td>
<td>Hand scanner</td>
</tr>
<tr>
<td>2</td>
<td>Fix scanner</td>
</tr>
<tr>
<td>3</td>
<td>PC communication</td>
</tr>
<tr>
<td>4</td>
<td>Slip printer(GP-965)</td>
</tr>
<tr>
<td>5</td>
<td>EFT terminal 1</td>
</tr>
<tr>
<td>6</td>
<td>EFT terminal 2(for BBS)</td>
</tr>
</tbody>
</table>

Note:
- Two same devices cannot coexist connected to the ECR
- Default configuration : SCOM1 =1
  SCOM2 =0

9.32 HALO and LALO on OPERATIONS OF VOID AND R.M.

With this function it is possible to define the maximum limit and the minimum limit of the input amounts on operations of VOID and of R.M.

<table>
<thead>
<tr>
<th>KEY</th>
<th>P KEY</th>
<th>X TIME</th>
<th>(AB CD)</th>
<th>SUB TOTAL</th>
<th>#/NS</th>
</tr>
</thead>
</table>

AB: max. limit for operations of VOID and R.M.
A = Max value of the first digit
B = Max digits number

CD: min. limit for operations of VOID and R.M.
C = Min value of the first digit
D = Min digits number
9.33 ENTRY AMOUNT CONTROL PROGRAMMING

By this programming it is possible to define the value with which a registered amount can finish; with the same programming it can be defined moreover from which of last the three digits of the amount (unit, tens and hundred, or second decimal, first decimal and unit) must be activated the control on the format of the same amount.

In other words, by this programming it’s possible to define if the ECR can accept final amounts with whichever digit (Eg.: 156.73) or if the amounts allowed must obligatorily finish for zero (Eg.: 156.70 or 156,00 or 150,00) or for five, fifty or five hundred (Eg.: 156.75 or 156.50 or 155,00).

Like evidenced in the above examples and like already indicated, it will be possible to define if the amounts can end with a number whichever or must end for zero or can end for zero or for five; this definition can have effect on the units (or second decimal), the units and the tens (or first and second decimal) or on the units, the tens and the hundreds (or first decimal, second decimal and unit).

<table>
<thead>
<tr>
<th>P</th>
<th>X/time</th>
<th>AB</th>
<th>Sub Total</th>
<th>#/NS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>definition of the digit from which must begin the amount control format</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>=</td>
<td>no control (default)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>=</td>
<td>control on the last digit of amount</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>=</td>
<td>control on penultimate digit of amount</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>=</td>
<td>control on antepenultimate digit of amount</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>amount format allowed (0 or 5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>=</td>
<td>the defined digit can be only zero</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>=</td>
<td>the defined digit can be zero or five</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Examples: if \( AB = 10 \), all the amounts with the last digit different from zero will generate an error on the ECR.

If \( AB = 35 \), all the amounts with last the three digits different from "500" or "000" will generate an error on the ECR.

9.34 HALLO LOGO SELECTION

The G-356, beyond to the LOGO Personalizable (STORE LOGO) that it can be loaded via PC by a graphical image (File) in Bitmap format, can use also 50 LOGOs already residents and that can be select for direct printing.

It will be possible, after to have established the printing of the Hallo LOGO by the Status System 2.G,H to define, by choosing from the list of LOGO available printed here below, which Hallo LOGO will have to be printed from the ECR.

The procedure for the Hallo LOGO to print selection is following:

<table>
<thead>
<tr>
<th>P</th>
<th>X/time</th>
<th>NN</th>
<th>Sub Total</th>
<th>#/NS</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEY</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NN = Hallo LOGO to be printed (from 01 to 50, see below list)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: The HALLO Logo number 50 is programmable via PC, so it'll be possible to upload by the Personal Computer a BitMap file (with correct size) an Hallo Logo prechosen by the customer.
9.35 THERMAL HEAD ENERGIZING TIME PROGRAMMING
With the following setting it is possible to define the printing intensity of thermal
printing.
Increasing the intensity, obviously, the printing speed will be lower and decreasing the
intensity of printing, instead, the speed will come automatically increased.
With a little time and some tests the best compromise for the optimization of the
printing will be reached.

\[ P \quad (68) \quad X/time \quad (PP) \quad \text{Sub Total} \quad \#/NS \]

PP : thermal head energizing time adjust code (from 20 to 80, default = 40).
Note : to use low values for low printing intensities and high printing speeds, to use high
values for high printing intensity and lower printing speeds.

9.36 CID# WARNING AMOUNT PROGRAMMING
The following setting is used to define the limit of the value of the CASH in Drawer N.1
after which it must come activated from the ECR a warning message.

\[ P \quad (421) \quad X/time \quad (NNN...N) \quad \text{Sub Total} \quad \#/NS \]

NNN...N : value of activation of the warning message (max 9999999999)

9.37 F/C WARNING AMOUNT PROGRAMMING
The following setting is used to define the limit of the Foreign Currency after which it
must come activated from the ECR a warning message.

\[ P \quad (423) \quad X/time \quad (NNN...N) \quad \text{Sub Total} \quad \#/NS \]

NNN...N : value of activation of the warning message (max 9999999999)

9.38 WARNING TIME PROGRAMMING
With the characteristic described inside of this paragraph it is possible to set up until
four times in which will come activated a sonorous and/or "visual" message by the blinking
of the time on display, the signals are activated only in "Reg." mode.

\[ P \quad (40X) \quad X/time \quad (H \ H \ M \ M \ S \ S) \quad \text{SUB:Total} \quad \#/NS \]

X : code of the signaling to program (from 1 to 4)
H H : hour of activation of the signaling (from 00 to 24)
M M : minutes of activation of the signaling (from 00 to 60)
S S : seconds of duration of the signaling (from 00 to 99), only in case
of A = 0 on Par. 9.39- (00 =signaling not active)
9.39  WARNING WORKING MODE

\[ P \quad (43X) \quad X/time \quad (AB) \quad \text{Sub Total} \quad \#/NS \]

- **X**: alarm code to define (from 1 to 4)
  - 1 = Programmable alarm N.1
  - 2 = Programmable alarm N.2
  - 3 = Programmable alarm N.3
  - 4 = Programmable alarm N.4
- **A**: 0 = normal acoustic signal, 1 = buzzer three times for minute
- **B**: 0 = yes Time on Display, 1 = no Time on Display

**Note**: ⇒ in case of 0 A = normal acoustic signaling, the signaling will have the duration defined on par. 9.38 to the point "S S".

9.40  PERSONAL REPORT PROGRAMMING

It's possible to define until four different groups of personal report, with everyone of which it'll be possible to obtain, in automatic mode until five different reports (between those available on the ECR and indicated in the following table to par. 9.41 of the following page), they will be printed by the input of a single code of report (from 2 to 5, that one of the personal report chose).

Thanks to this function it will be possible, as an example, to have in automatic mode the reports that normally come executed on the ECR without to have to remember all the codes.

The personalized reports can be executed in "X" mode and also in "Z" mode.

\[ P \quad (50R) \quad X/time \quad (AAA) \quad X/time \]
\[ \quad (BBB) \quad X/time \]
\[ \quad (CCC) \quad X/time \]
\[ \quad (DDD) \quad X/time \]
\[ \quad (EEE) \quad \text{Sub Total} \quad \#/NS \]

- **R**: number of the personal report to be programmed (from 2 to 5), the same number will be used in "X" or "Z" for the execution of the personal report.
- **AAA**: number of the first report to link to personal report
- **BBB**: number of the second report to link to personal report
- **CCC**: number of the third report to link to personal report
- **DDD**: number of the fourth report to link to personal report
- **EEE**: number of the fifth report to link to personal report

**Note**: ⇒ at the "personal Reports" is possible to link quite all the reports available in the ECR except:
1. Another personal Report
2. A code of individual report (therefore the reports with code that begins with 4xx and/or 5xx)
3. A code of sequential report (therefore the reports with code that begins with 6xx and/or 7xx)

⇒ if in a personal report it is necessary to insert less than 5 reports, to directly press SUB-TOTAL key after the insertion of the last report code without to confirm by the "X/time" key.
### 9.41 Reports That Can Be Inserted In A "Personal Report"

<table>
<thead>
<tr>
<th>Code</th>
<th>Report Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Daily Departments</td>
</tr>
<tr>
<td>11</td>
<td>Daily Departments for groups (GROUP 1)</td>
</tr>
<tr>
<td>12</td>
<td>Daily Departments for groups (GROUP 2)</td>
</tr>
<tr>
<td>13</td>
<td>Daily Departments for groups (GROUP 3)</td>
</tr>
<tr>
<td>14</td>
<td>Daily Departments for groups (GROUP 4)</td>
</tr>
<tr>
<td>15</td>
<td>Daily Departments for groups (DETAILED)</td>
</tr>
<tr>
<td>16</td>
<td>Daily Groups (ALL GROUPS)</td>
</tr>
<tr>
<td>20</td>
<td>PLU Selling data</td>
</tr>
<tr>
<td>21</td>
<td>Top 25 PLU amount</td>
</tr>
<tr>
<td>22</td>
<td>Top 25 PLU quantity</td>
</tr>
<tr>
<td>30</td>
<td>Daily transaction</td>
</tr>
<tr>
<td>31</td>
<td>Daily VAT</td>
</tr>
<tr>
<td>40</td>
<td>Daily Clerks</td>
</tr>
<tr>
<td>50</td>
<td>Daily hourly</td>
</tr>
<tr>
<td>60</td>
<td>Daily PB situation</td>
</tr>
<tr>
<td>61</td>
<td>Daily PB movements</td>
</tr>
<tr>
<td>62</td>
<td>Daily Invoices / Bill</td>
</tr>
<tr>
<td>110</td>
<td>P-T-D Departments</td>
</tr>
<tr>
<td>111</td>
<td>P-T-D Departments for groups (GROUP 1)</td>
</tr>
<tr>
<td>112</td>
<td>P-T-D Departments for groups (GROUP 2)</td>
</tr>
<tr>
<td>113</td>
<td>P-T-D Departments for groups (GROUP 3)</td>
</tr>
<tr>
<td>114</td>
<td>P-T-D Departments for groups (GROUP 4)</td>
</tr>
<tr>
<td>115</td>
<td>P-T-D Departments for groups (DETAILED)</td>
</tr>
<tr>
<td>116</td>
<td>P-T-D Departments for groups (ALL GROUPS)</td>
</tr>
<tr>
<td>120</td>
<td>P-T-D PLU Selling data</td>
</tr>
<tr>
<td>130</td>
<td>P-T-D transaction</td>
</tr>
<tr>
<td>131</td>
<td>P-T-D VAT</td>
</tr>
<tr>
<td>140</td>
<td>P-T-D Clerks</td>
</tr>
<tr>
<td>150</td>
<td>P-T-D hourly</td>
</tr>
<tr>
<td>161</td>
<td>P-T-D PB movements</td>
</tr>
<tr>
<td>162</td>
<td>P-T-D Invoices / Bills</td>
</tr>
<tr>
<td>210</td>
<td>Histogram Daily Department</td>
</tr>
<tr>
<td>215</td>
<td>Histogram Daily Department for groups (Detailed)</td>
</tr>
<tr>
<td>216</td>
<td>Histogram Daily Department for groups (All the Groups)</td>
</tr>
<tr>
<td>250</td>
<td>Histogram Daily Time Zones</td>
</tr>
<tr>
<td>310</td>
<td>Histogram P-T-D Department</td>
</tr>
<tr>
<td>315</td>
<td>Histogram P-T-D Department for groups (Detailed)</td>
</tr>
<tr>
<td>316</td>
<td>Histogram P-T-D Department for groups (All the Groups)</td>
</tr>
<tr>
<td>350</td>
<td>Histogram P-T-D hourly</td>
</tr>
</tbody>
</table>
On G-356 it is possible to define, by the programming described here, the Label I.D. of code that the Scanner must send to ECR for each family of Bar-codes managed by the same ECR, this possibility will be useful to adapt with facility a lot of types of Scanner to G-356.

\[
\text{KEY} \quad (512) \quad \text{X/time} \quad (ABCDEFGH) \quad \text{Sub Total} \quad \#//NS
\]

default

- A : Label I.D. for EAN 13
- B : Label I.D. for EAN 8
- C : Label I.D. for UPC-A
- D : Label I.D. for UPC-E
- E : Label I.D. for CODE39
- F : Label I.D. for Interleaved 2/5
- G : Label I.D. for CODE128
- H : Label I.D. for CODABAR
- I : Label I.D. for CODE93

Note: Like Label I.D., you have to insert the character indicated in the documentation of the Scanner, by using the alphanumeric keys on the ECR's keyboard.

9.43 cash preset key1~6

user can define the cash preset key for substitution the press of \{0~9\} key then \{cash\}key.

Programming

\[
P \quad \text{Cash amount} \quad \text{Cash presetX} \quad \#//NS
\]

9 digits (max)

X = 1~6

example

100 = 100$ in case of decimal
1000 = 100$ in case of 2 decimal

key code

- 080 = cash preset 1
- 081 = cash preset 2
- 082 = cash preset 3
- 083 = cash preset 4
- 084 = cash preset 5
- 085 = cash preset 6
10. FUNCTION "CALCULATOR"

On G·356 is possible to activate the function "CALCULATOR", this function allows to execute, on the ECR's display (so nothing is printed on paper), the four operations (sum, subtraction, division and multiplication).

Beyond to not printing nothing, the operations executed in modality "CALCULATOR" do not change data on totalizers and/or counters in the ECR's memory.

In order to activate this function it will be necessary to set on the ECR's keyboard five keys "+", "-", "X","÷", and "=" (see paragraph 6.1.4 "KEYBOARD FUNCTION PROGRAMMING" to pag. XX, the keys codes respective are : 066, 067, 068, 069 and 070).

In order to remove eventual amounts inserted in wrong way, normal present key "CL" in keyboard can be used.

Calculator Operation :

\[ R \overset{(PPPPP\ldots)\quad +, \cdot, \div, X}(\overset{(PPPPP\ldots)}{\overset{=}{\overset{\text{KEY}}{PPP\ldots}}} = \text{amounts input for the calculation, maximum 9 digits eventually comprised decimal digits.}}\]

Note :
- eventual situations of overflow will be marked from the error E140
- If the ECR operates in modality "EURO", the virtual comma fixedly positioned for the two decimals of EURO hasn't any effect on calculator operations, the eventual comma must be inserted manually during the calculations for the EURO amounts and for the quantity also.
11. MEMORY RESET FOR AREAS

It's possible to activate the ECR's memory reset for areas: it will be possible by this function to reset, as an example, only the PLU, only the PB or only the Memory Billing area, without to reset or to modify the other data of the ECR's memory.

It's easy to understand as this operations of the memory cleaning is particularly delicate: in fact, after the reset of memory area by the relative code of reset, it won't be more possible to recover cleared data in no way. For the cancellation of such areas to continue like indicated.

11.1 Area clearing

Key in "Prg" mode

----- (067038400) ---- #/NS CLEARING A working area
----- (067038401) ---- #/NS CLEARING B all the totalizers.

It will reset however only the totalizers and the counters.
Status and preset data are remain.

----- (067038402) ---- #/NS CLEARING C keyboard configuration (default)
----- (067038403) ---- #/NS CLEARING D PLU/PB memory area
----- (067038404) ---- #/NS CLEARING E 2nd Language memory area

11.2 All clear

This operation is initialize all memory.
Set dip sw1 ON (on the mainboard)
With depression tenkey “1”, ON the power switch.
“All clear “ is appear on the display.

After all clear operation, the date and time is also reset.
Therefor date and time must be programmed at first.
If date and time are not set, the other operation will cause error condition.
12. "X" and "Z" REPORTS

12.1 INTRODUCTION
The ECRs of the G-356 series can realize a complete elaboration of all the informations concerning the registrations and the transactions of sale; in fact all the data concerning to the shop management come memorized and grouped in such way it'll be possible at anytime to recall memorized data through opportune operations of reading and/or reset that imply the printing of a "report".

Some of these reports have a graphical format realized through histograms of immediate and easy interpretation (as an example a report with some bars of proportional length to amount of the selling operation for each Department).

Another interesting characteristic is concerning to the possibility to directly obtain some more important data directly on the ECR's display so as to be able to carry out the immediate verifications without the necessity to print some document (as an example is possible to verify the amount embedded for each mode of payment), such function is depending to the STATUS SYSTEM 6F setting.

All the reading reports ("X" mode) can be interrupted by pressing three times the "CL" key.

The reading reports are obtained by ECR setting in "X" mode while for the reset reports the ECR must be set in "Z" mode.

The execution of the reports either of reading than of reset can be limited only to authorized clerks.

ATTENTION: the "Z" mode reports, delete (cancel) the amounts and the quantity memorized in the totalizers and the counters relative to several types of reports; therefore it is advised to place much attention to the indicated operating mode by the ECR's display, so it'll be possible to avoid erroneous and undesired data reset.

12.2 DATA VISUALIZATION ON ECR's DISPLAY
AMOUNTS OF "TOTALS" AND "FOREIGN CURRENCY"

a) "X" mode
b) press the wished Key (Cash, Credits, Currency 1, etc...).

GENERAL TOTAL (net from the variations after Sub-Total)
a) "X" mode
b) strike the "SUB-TOTAL" key

C.I.D. Total
a) "X" mode
b) strike the #/NS key

Note: This function can be disabled by the setting of the Status S. 6F.
12.3 GENERAL REPORTS

(Report Code) ———— Total 1 (Cash)

A : "X" mode for reading report, "Z" mode for deleting report
Report Code : see below table

12.3.1 TABLE 1 - Daily and P-T-D reports in numeric format

<table>
<thead>
<tr>
<th>CODE</th>
<th>REPORT TYPE</th>
<th>X</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Daily full terminal report</td>
<td>yes</td>
<td>yes1</td>
</tr>
<tr>
<td>2</td>
<td>Personal report N. 1</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>3</td>
<td>Personal report N. 2</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>4</td>
<td>Personal report N. 3</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>5</td>
<td>Personal report N. 4</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>10</td>
<td>Daily Departments</td>
<td>yes</td>
<td>yes1</td>
</tr>
<tr>
<td>11</td>
<td>Daily Departments. for groups (GROUP 1)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>12</td>
<td>Daily Departments. for groups (GROUP 2)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>13</td>
<td>Daily Departments. for groups (GROUP 3)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>14</td>
<td>Daily Departments. for groups (GROUP 4)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>15</td>
<td>Daily Departments. for groups (DETAILED)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>16</td>
<td>Daily Departments. for groups (All the Groups)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>20</td>
<td>PLU Selling data</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>21</td>
<td>Top 25 PLU amount</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>22</td>
<td>Top 25 PLU quantity</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>30</td>
<td>Daily transaction</td>
<td>yes</td>
<td>no1</td>
</tr>
<tr>
<td>33</td>
<td>Cash in Drawer</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>40</td>
<td>Daily Clerks (total embedded amount)</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>42</td>
<td>Clerks secret codes reset</td>
<td>No</td>
<td>yes</td>
</tr>
<tr>
<td>50</td>
<td>Daily hourly</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>60</td>
<td>Daily PB situation</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>61</td>
<td>Daily PB movements</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>62</td>
<td>Daily Invoices/Bills</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>101</td>
<td>P-T-D Full Terminal Status Report</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>110</td>
<td>P-T-D Departments</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>111</td>
<td>P-T-D Departments. for groups (GROUP 1)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>112</td>
<td>P-T-D Departments. for groups (GROUP 2)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>113</td>
<td>P-T-D Departments. for groups (GROUP 3)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>114</td>
<td>P-T-D Departments. for groups (GROUP 4)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>115</td>
<td>P-T-D Departments. for groups (DETAILED)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>116</td>
<td>P-T-D Departments. for groups (All the Groups)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>120</td>
<td>P-T-D PLU selling data</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>121</td>
<td>P-T-D Top 25 PLU amount</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>122</td>
<td>P-T-D Top 25 PLU quantity</td>
<td>yes</td>
<td>No</td>
</tr>
<tr>
<td>124</td>
<td>PLU STOCK situation</td>
<td>yes</td>
<td>Yes</td>
</tr>
<tr>
<td>130</td>
<td>P-T-D Transaction</td>
<td>yes</td>
<td>yes2</td>
</tr>
<tr>
<td>131</td>
<td>P-T-D VAT</td>
<td>yes</td>
<td>no2</td>
</tr>
<tr>
<td>140</td>
<td>P-T-D Clerks (total embedded amount)</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>150</td>
<td>P-T-D hourly</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>161</td>
<td>P-T-D PB movements</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>162</td>
<td>P-T-D Invoices/Bills</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>
12.3.2 TABLE 2 - Daily and P-T-D reports in graphic format

<table>
<thead>
<tr>
<th>CODE</th>
<th>REPORT TYPE</th>
<th>X</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>210</td>
<td>Daily department Histogram</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>215</td>
<td>Daily groups Histogram (Detailed)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>216</td>
<td>Daily groups Histogram (all groups)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>250</td>
<td>Daily Time Zones Histogram</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>310</td>
<td>P-T-D department Histogram</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>315</td>
<td>P-T-D groups Histogram (Detailed)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>316</td>
<td>P-T-D groups Histogram (all groups)</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>350</td>
<td>P-T-D Time Zones Histogram</td>
<td>yes</td>
<td>no</td>
</tr>
</tbody>
</table>

12.3.3 TABLE 3 - Daily and P-T-D specifics reports in numeric format

It's possible to obtain also "Specifics Reports" relative to the specific interesting data as for example the selling data of a certain Department.

These Reports are obtained selecting the operating "X" mode for reading reports and "Z" mode for deleting reports; the procedure is indicated below the table.

<table>
<thead>
<tr>
<th>CODE</th>
<th>REPORT TYPE</th>
<th>X</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>410</td>
<td>Daily for definable department</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>420</td>
<td>Daily for definable PLU</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>440</td>
<td>Daily for definable Clerk</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>460</td>
<td>PB situation definable</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>510</td>
<td>P-T-D for definable department</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>520</td>
<td>P-T-D for definable PLU</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>524</td>
<td>PLU stock definable</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>540</td>
<td>P-T-D for definable Clerk</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>

Procedure for reports activation:

**TO REPEAT FOR ALL THE WISHED DATA**

- **X or Z**
- **(COD)**
- **Tot. 1 (CASH)**
- **Identification**
- **Tot. 1 (CASH)**

**KEY**

<table>
<thead>
<tr>
<th>COD</th>
<th>Identification: Report Code (see above table)</th>
</tr>
</thead>
</table>
|     | Identification (code) of the data for which the report (PLU, Dept., Clerk, etc...) is wanted to be obtained, followed from the relative key (PLU, PB, Clerk, etc...)

**Note:**
Sequences (PLU code) PLU and (PB code) PB can be replaced from the reading by scanner of the bar-code of the product or from the pressure of direct Hard PLU Key or from the reading of the bar-code of the customer in the case of PB code.

12.3.4 TABLE 4 - Daily and P-T-D specifics sequential reports in numeric format

It's possible to obtain also "Specific Reports" relative to the specific interesting data, also in sequential format, to have as an example the PLU selling data for all PLUs with code from 300 to 600, that are all of the same family.

These Reports are obtained selecting the operating "X" mode for reading reports and "Z" mode for deleting reports; the procedure is indicated below the table.

<table>
<thead>
<tr>
<th>CODE</th>
<th>REPORT TYPE</th>
<th>X</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>620</td>
<td>Daily PLU sequential</td>
<td>Yes</td>
<td>yes</td>
</tr>
<tr>
<td>623</td>
<td>Daily PLU for Department</td>
<td>Yes</td>
<td>yes</td>
</tr>
<tr>
<td>660</td>
<td>Daily PB sequential</td>
<td>Yes</td>
<td>yes</td>
</tr>
<tr>
<td>720</td>
<td>PLU Stock sequential</td>
<td>Yes</td>
<td>yes</td>
</tr>
<tr>
<td>723</td>
<td>P-T-D PLU for Department</td>
<td>Yes</td>
<td>yes</td>
</tr>
<tr>
<td>760</td>
<td>PB situation</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Report code 620, 660 and 670 activation procedure:

\[
\begin{array}{c|c|c}
\text{X or Z} & \text{COD} & \text{Tot. 1} \\
\hline
\text{I° Cod.} & \text{(I° Cod.)} & \text{Tot. 1} \\
\hline
\text{II° Cod.} & \text{(II° Cod.)} & \text{Tot. 1} \\
\hline
\end{array}
\]

- **COD**: Report Code (see above table)
- **I° Cod.**: Code of the first PLU or PB of the group for which it is desired to obtain the report
- **II° Cod.**: Code of the last PLU or PB of the group for which it is desired to obtain the report

Note: The manual input of PLU codes can be replaced from the reading through the scanner of the bar-code of the product or from the pression of direct Hard PLU Key.

Report code 623 and 723 activation procedure:

\[
\begin{array}{c|c|c|c}
\text{X or Z} & \text{COD} & \text{Tot. 1} \text{(CASH)} & \text{RR} & \text{Tot. 1} \text{(CASH)} \\
\hline
\text{KEY} & \text{COD} & \text{Tot. 1} \text{(CASH)} & \text{RR} & \text{Tot. 1} \text{(CASH)} \\
\hline
\end{array}
\]

- **COD**: Report Code (see above table)
- **RR**: Number of the Dept. to which the PLU for which are wants to obtain the report are linked; the insertion of the number of the Dept. can be replaced from the direct pression of the Department key.
12.4 PROGRAMMING READING REPORT

Report Code : see below table

<table>
<thead>
<tr>
<th>CODE</th>
<th>REPORT TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>901</td>
<td>Departments Programming</td>
</tr>
<tr>
<td>902</td>
<td>System parameters 1 Programming</td>
</tr>
<tr>
<td>903</td>
<td>PLU Programming</td>
</tr>
<tr>
<td>904</td>
<td>PB Programming</td>
</tr>
<tr>
<td>905</td>
<td>System parameters 2 Programming</td>
</tr>
<tr>
<td>906</td>
<td>Not used</td>
</tr>
<tr>
<td>907</td>
<td>Keyboard layout Programming</td>
</tr>
<tr>
<td>908</td>
<td>Memory configuration</td>
</tr>
<tr>
<td>913</td>
<td>2nd language Programming (if existing)</td>
</tr>
<tr>
<td>914</td>
<td>PLU Arrangement Programming</td>
</tr>
<tr>
<td>921</td>
<td>Sequential PLU Programming</td>
</tr>
<tr>
<td>922</td>
<td>Sequential PB Programming</td>
</tr>
</tbody>
</table>

Report code 921 and 922 activation procedure :

\[ \text{COD} \quad \text{(I° Cod.)} \quad \text{(II° Cod.)} \quad \text{TOTAL}1 \]

COD : Report Code (see above table)
I° Cod. : Code of the first PLU or PB of the group for which it is desired to obtain the Programming report
II° Cod. : Code of the last PLU or PB of the group for which it is desired to obtain the programming report

Note: The manual input of PLU codes can be replaced from the reading through the scanner of the bar-code of the product or from the pression of direct Hard PLU Key.

12.4.1 SPECIFIC PROGRAMMING READING REPORT

"Specific" Reports

\[ P \quad \text{(Function Key)} \quad \#/NS \]

Example: to read the programming of : "%2", of "TOT. 3" and of "Dept. 5":

"P"---- press "%2"---- press "TOT.3"------ press "Dept.5"------ close with "/NS"

Programming reading for each kind of Programming
a) "Prg" mode
b) Input the Code used in order to activate the Programming (see paragraphs 6.XX in this manual)
c) press the key “X/TIME”
d) press the key "SUB-TOTAL"
e) close with the key "#/NS".

Eg. : In order to obtain the printing of the SCOM port assignment programming :

\[ P \quad (95) \quad \text{X/time} \quad \text{SUB-TOTAL.(R)} \quad \#/NS \]
### 12.5 DAILY FULL TERMINAL REPORT EXAMPLE

**Z--1--Tot.1**

<table>
<thead>
<tr>
<th>Daily Selling amount Total</th>
<th>Non Resetable Grand Total</th>
<th>Total amount of VOID,R.M E.C&amp; Transaction VOID</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total amount of %,(+),(-)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credit total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bill(slip) counter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bill total amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reset number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Daily departments report</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantity sold of the department</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sales composition rate &amp; amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Selling data for Media Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

---

**JCM GOLD**

**MODEL G356E**

**VERSION 1.02**

---

**Daily auto Z report**

- **Net Sales**: 26,993.19
- **NRGT**: 40,270.86
- **Void**: 4.50
- **Rtrn.Mdse**: 96.50
- **Err.Corr.**: 0.90
- **Trans,Void**: 20.28
- **%1**: 1.50
- **%2**: 7.29
- **%3**: 2.30
- **(-)**: 1.15
- **(+)**: 1.52
- **Credit Total**: 461.50
- **Slip**: 3
- **Z-NO**: 0002

**Daily Dep Z report**

- **Dep 01**: 5
  - 0.12%: 32.50
- **Dep 02**: 24
  - 2.55%: 684.97

**Daily Transaction Z**

- **Gross Total**: 850.92
- **Cash**: 13
  - 10,990.62
- **Credit**: 3
  - 470.65
- **Tot. 3**: 3
  - 438.05
- **Tot. 4**: 3
  - 1,569.67
- **Tot. 5**: 4
  - 1,506.29
- **Tot. 6**: 2
  - 554.16
- **TOT. 9**: 4
  - 551.69
<table>
<thead>
<tr>
<th>Net Sales</th>
<th>35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Sales</td>
<td>27,041.20</td>
</tr>
<tr>
<td>Hold / Recall</td>
<td>13.56</td>
</tr>
<tr>
<td>Hold / Recall</td>
<td>1,11010.09</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>&lt;item&gt;</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>%1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1.50</td>
</tr>
<tr>
<td>%2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>7.29</td>
</tr>
<tr>
<td>%3</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>0.53</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>&lt;item&gt;</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>()</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1.15</td>
</tr>
<tr>
<td>()</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>0.23</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>&lt;Subtotal&gt;</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>%1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>02.66</td>
</tr>
<tr>
<td>%2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>01.46</td>
</tr>
<tr>
<td>%3</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>02.77</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>&lt;Subtotal&gt;</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>()</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0.00</td>
</tr>
<tr>
<td>()</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0.00</td>
</tr>
</tbody>
</table>

continued
<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rtrn.Mdse.</td>
<td>3</td>
<td>96.50</td>
</tr>
<tr>
<td>Void</td>
<td>1</td>
<td>4.50</td>
</tr>
<tr>
<td>Err. Cor.</td>
<td>1</td>
<td>0.90</td>
</tr>
<tr>
<td>Trans. Void</td>
<td>1</td>
<td>20.28</td>
</tr>
<tr>
<td>Deposit</td>
<td>2</td>
<td>73.90</td>
</tr>
<tr>
<td>Debit</td>
<td>1</td>
<td>9.15</td>
</tr>
<tr>
<td>P/O1</td>
<td>2</td>
<td>50.00</td>
</tr>
<tr>
<td>P/O2</td>
<td>1</td>
<td>567.00</td>
</tr>
<tr>
<td>R/A1</td>
<td>1</td>
<td>15.00</td>
</tr>
<tr>
<td>R/A2</td>
<td>4</td>
<td>734.50</td>
</tr>
<tr>
<td>R/A3</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td>Rounding</td>
<td></td>
<td>0.00</td>
</tr>
<tr>
<td>SLIP</td>
<td>8</td>
<td>195.12</td>
</tr>
<tr>
<td>#/NS Counter</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>F/C 1</td>
<td>1</td>
<td>2.00</td>
</tr>
<tr>
<td>F/C 2</td>
<td>2</td>
<td>52.00</td>
</tr>
<tr>
<td>F/C 9</td>
<td>5</td>
<td>332.54</td>
</tr>
<tr>
<td>F/C Total</td>
<td></td>
<td>554.54</td>
</tr>
<tr>
<td>C.I.D</td>
<td></td>
<td>480.49</td>
</tr>
<tr>
<td>CCD Total</td>
<td></td>
<td>0.00</td>
</tr>
<tr>
<td>CCD Diff.</td>
<td></td>
<td>-480.49</td>
</tr>
</tbody>
</table>

Memory balance
C.I.D = MEDIA TOTAL + R/A - P/O - CHANGE DUE (OTHER CASH)
**Daily tax Report (Tax version)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non taxable item counter</td>
<td></td>
</tr>
<tr>
<td>Non taxable amount total</td>
<td></td>
</tr>
<tr>
<td>Taxable1 item counter</td>
<td></td>
</tr>
<tr>
<td>Taxable amount total</td>
<td></td>
</tr>
<tr>
<td>Tax rate &amp; tax1 total</td>
<td></td>
</tr>
<tr>
<td>Tax exempt/VAT empty counter</td>
<td></td>
</tr>
<tr>
<td>Tax exempt/VAT empty amount</td>
<td></td>
</tr>
<tr>
<td>GST Sales counter</td>
<td></td>
</tr>
<tr>
<td>GST sales amount</td>
<td></td>
</tr>
<tr>
<td>GST rate &amp; GST total</td>
<td></td>
</tr>
<tr>
<td>Nontaxable TAX</td>
<td>35</td>
</tr>
<tr>
<td>Amount</td>
<td>308.00</td>
</tr>
<tr>
<td>TAX1</td>
<td>10</td>
</tr>
<tr>
<td>Amount</td>
<td>405.00</td>
</tr>
<tr>
<td>10.00%</td>
<td>40.50</td>
</tr>
<tr>
<td>TAX2</td>
<td>3</td>
</tr>
<tr>
<td>Amount</td>
<td>308.00</td>
</tr>
<tr>
<td>15.00%</td>
<td>46.20</td>
</tr>
<tr>
<td>Exempt</td>
<td>3</td>
</tr>
<tr>
<td>Amount</td>
<td>554.45</td>
</tr>
<tr>
<td>GST</td>
<td>5</td>
</tr>
<tr>
<td>Amount</td>
<td>45,556.00</td>
</tr>
<tr>
<td>10.00%</td>
<td>445.00</td>
</tr>
</tbody>
</table>

Continued to clerk report
## Daily VAT Z report

<table>
<thead>
<tr>
<th>Non taxable item counter</th>
<th>Nontaxable</th>
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</thead>
<tbody>
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<td>Non taxable amount total</td>
<td>Amount</td>
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</tr>
<tr>
<td>Taxable1 item counter</td>
<td>VAT1</td>
<td>314</td>
</tr>
<tr>
<td>Taxable amount total</td>
<td>amount</td>
<td>12,946.41</td>
</tr>
<tr>
<td>VAT1 net sales total</td>
<td>VAT N.S.1</td>
<td>11,769.46</td>
</tr>
<tr>
<td>VAT rate &amp; VAT1 total</td>
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<td>1,176.95</td>
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<tr>
<td>Tax exempt/VAT empty counter</td>
<td>Exempt</td>
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<tr>
<td>Tax exempt/VAT empty amount</td>
<td>amount</td>
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</tr>
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</tr>
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<tr>
<td>GST rate &amp; GST total</td>
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<tr>
<td>Supervisor sales counter</td>
<td>Clerk 04</td>
<td>1</td>
</tr>
<tr>
<td>Supervisor sales total</td>
<td>Amount</td>
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<td>5</td>
</tr>
<tr>
<td></td>
<td>Amount</td>
<td>564,224.00</td>
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13/02/04 13:10  0079
<table>
<thead>
<tr>
<th>Time zone</th>
<th>Hourly sales total</th>
<th>Sales counter</th>
<th>Customer counter</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-17:00</td>
<td>198.51</td>
<td>35</td>
<td>10</td>
</tr>
<tr>
<td>18:00-19:00</td>
<td>413.06</td>
<td>31</td>
<td>10</td>
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<tr>
<td>19:00-08:00</td>
<td>47.73</td>
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<tr>
<td>Total</td>
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<td>76</td>
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---

15/05/03 19:54  0085
13. REGISTRATION EXAMPLE

13.1 SIMPLE REGISTRATION

- input the amount
- press the Department key wished
- press "SUB-TOTAL (R)" key if it is desired to visualize and to print the partial total, or "SUB-TOTAL (D)" key if it is only desired to visualize the partial total
- press one of the Total key.

"Store" LOGO, personalizable graphical Logo. Such graphical Logo is personalizable and it can be programmed on the ECR's memory by a Personal Computer, for this programming to make reference to the assistance center authorized.

Machine No.

Clerk No.

VAT symbol
(S.S1-H=1)

*1

Number of sales item

Descriptor & Sales amount

Closed key descriptor

*1: When TOTAL1(CASH) key is depressed without amount entry, this line will omitted.

There is a option S.S.5E

0=consecutive number is not reset by full terminal report (Z 1-CA or 101-CA)

1=Consecutive number is reset by full terminal report (Z 1-CA or 101-CA)

note: TOTAL KEY

When the amount entered with the Totalx key is equal to or greater than the sales total, the transaction is finalized with the issuance of a receipt and opening of cash drawer.

(1) Change due is displayed with the “CE” message on both the front display and rear display.

(2) The cash drawer opens.

(3) Finalizing print cycle are initiated with the following print lines.

1) The rounding amount
2) The sales total or the contents of main itemizer.
3) The tendered amount.
4) The change due (this printing is not done for the tendering).
5) Receipt trailer line including the consecutive number, the time and date

(4) The total of the sales (not amount tendered) is added to the Totalx advancing the Totalx Counter by one.

The customer counter and the consecutive number are also advanced.
13.2 REGISTRATION WITH PROGRAMMED PRICE

Press the Departments key wished
  - press "SUB-TOTAL (R) or (D)" key to evidence the partial total
  - press one of the Total key.

Heading of the point sale, 5 Lines for 20 characters, the lines of heading can be inserted also using characters to double height.

Courtesy message, the ECR can be set for the printing of one message composed from a maximum of 3 lines that will be printed in this space. Also these lines can be programmed for to be printed in double height.

13.3 RECORDING with AUTOMATIC Repeating

- Input the amount
- press the Departments key wished one time for each item
- press "SUB-TOTAL (R)" key if it is desired to visualize and to print the partial total, or "SUBTOTAL (D)" key if it is only desired to visualize the partial total
- press one of Media Total key.

Items number

Finalized media descriptor

TIME

"Hallo" LOGO, fixed graphical Logo. Such graphical Logo can be chosen between the 50 fixed graphical logo existing in the memory of G·356; for the definition of the logo to used see par.9.34 of this manual.
13.4 HALO/LALO LIMIT EXCLUSION
It’s possible to exclude temporary the limit on the programmed HALO and LALO on the Departments, or the PLU:
- Press the key "Free price" (No Limit)
- Input the amount
- press the Department key wished (or call the PLU code wished)
- to continue with the normal registrations or close the receipt with one of the Media Totals.

13.5 REGISTRATIONS WITH "SINGLE ITEM"
If an Department, or a PLU, is programmed in "Single Item" mode, the relative registrations will be automatically closed on “TOTAL 1 (CASH)” without that it is necessary to press such key.
Take note that however, if the receipt begins with an Dept. or a PLU not programmed like "Single Item", the aforesaid automation won't be activated.

13.6 R/A REGISTRATIONS
- Input the amount
- press the key "R/A1"
- close the receipt with a Media Total (no CREDIT)
Note: they are available until 3 keys R/A that can be used in free mode inside of the same operation, all the keys R/A can have the description of until 10 characters modifiable.

13.7 MULTIPLICATION
- Input the quantity
- press the key “X/time”
- input the unit price
- press the Department key wished
- to continue or to conclude the receipt with the Total (eg.)
Note: the multiplication function can be used also for the registrations with PLU, R.M., VOID, etc....

13.8 SPLIT PRICING
It’s possible to execute one "Split pricing" (for example in order
register the Split package merchandise):
- Input the first quantity (Eg. : 2), purchased quantity
- press the key “X/time”
- input the second quantity in a whole package (Eg. : 3)
- press the key “X/time”
- input the whole package price (Eg. : 100)
- press the Department key wished
- to continue or to close the receipt.

Note1: If CL key is depressed during operation, it will be canceled.
It must be operated from the first.

Note2: This function can be inhibited through the setting of S.S.6-G.

13.9 CASH DECLARATION
This operation can be executed from the clerk before
daily full terminal report. If it is repeated, the last declaration
executed will be that effectively valid.
1 Input the code 9999
2 press the "#/NS" key Optional step, not to be used
3 to input the number of the in case of one single banknote
   banknotes or of the coins. or in case of the distinguished
4 press the "X/time" key of the modes of payment
5 input the amount or the banknote/coin’s value
6 to press a key “Total” for the local currency or
   the key of the foreign currency in issue
7 to repeat from step 3 for each banknote or coin or from
   point 5 for other amounts of different payment modes.
8 close the operation with "Sub-Total (R)" key

Note : For the local CURRENCY can be used also Totals
different from the CASH TOTAL, in this way it will be
possible to activate a Cash Declaration with the
distinction of the modes of payment.

Example 1: Cash Declaration with the distinction of payment modes : 7,895,00 by CASH,
5,800,00 by Check, 3,250,00 by VISA.

Example 2: Cash Declaration : 15 pieces of 1,000,00, 10 of 500,00, 20 of 100,00, 5 of 50,00,
8 of 10,00 and 1 of 100 Dollars.
15--X--100000--Cash--10--X--50000--Cash--20--X--10000--Cash--5--X--5000--Cash--8--X--
1000--Cash--1--X--100--USD--Sub-Total (R).
13.10 SECOND KEYBOARD (Dep’t.s SHIFT)
The use is managed like explained on paragraph 5: substantially the key "Depts. SHIFT" must be pressed immediately before the Department key of reference.
Concerning to the Status System 7.B programming, the second keyboard can be unprimed automatically after the registration or it can be necessary to press the "Depts. SHIFT" key newly.

13.11 ADDITIONAL CHARGE (+)
It’s possible to execute additional charges either reported to a Department (case a.), than reported to the Sub Total (case b.), in this last case the additional charge amount will be shared proportionally between all the Departments used until that point of the receipt, rendering, in this way, meaningful the VAT management.

It’s possible moreover, by the setting of S.S.3D = 1, to activate the net amount printing on receipt after the additional charge operation (case c.).
- After the registration on Dept., to input the amount to add (case a.)
- press the "(+)" key
- after the registrations on the Depts., press "SUB-TOTAL (R)" key (case b.)
- input the amount to add
- press the "(+)" key
- close the receipt by the Total.

Case a  item (+) Case b  Sub total (+)

13.12 DEDUCTIONS (-)
It’s possible to execute deductions either reported to a Department (case a.), than reported to the Sub Total (case b.), in this last case the deducted amount will be shared proportionally between all the Departments used until that point of the receipt, rendering, in this way, meaningful the VAT management.

It’s possible moreover, by the setting of S.S.3D = 1, to activate the net amount printing on receipt after the deduction operation (case c.).
- After the registration on Dept., to input the amount to deduct (case a.)
- press the "(" key
- after the registrations on the Depts., press "SUB-TOTAL (R)" key (case b.)
13.13 PLU WITH PROGRAMMED PRICE REGISTRATION

- Input the PLU’s code wished
- press the "PLU" key
  (or to read the barcode of the PLU with the scanner or
to press the HARD-PLU key)
- to continue or to conclude the receipt.

By the setting of S. S. 3F it’ll be possible to activate the
printing of the PLU code on ECR’s receipt and journal.

By the configuration of S.S.1D = 1 it’ll be possible to
activate the printing of the TOTAL line in double height,
this to the aim to make the receipt reading more easy
and clear.
13.14 PLU WITH FREE PRICE REGISTRATION
- Input the price for the PLU
- press the "PLU Price" key
- read the PLU bar-code with scanner
(or, to input the PLU code by keyboard
and to press "PLU" key)
- continue or close the receipt by Total.
Note: In case of Hard PLU it’ll be possible to input the
price and to press directly the Hard PLU key
without to use "PLU Price" key.
13.15 PLU ARRANGEMENTS

It is possible to create, on G·356, until 9 PLU linking; every PLU linking can be recalled by the code (from 1 to 9), or it can be called by the direct pression of a key.

Every PLU linking can automatic recall and print until 9 PLU.

- To input the code of the arrangement to recall, Eg. 1 (from 1 to 9) and to press the key "Arrangement PLU by code" (key not present like default on the G·356's keyboard), or to press one of the keys "Hard PLU arrangement X" (key not present like default on the G·356's keyboard).
- To continue with other registrations or to close the receipt, also using the change calculation or a mixed payment.

***************
JCM GOLD ECR
MODEL G·356E
VERSION 1.02
***************
ANITA R #0002

#0000001
COKE 2,000.00
#0000002
APPLE 2,000.00
#0000003
JUICE 60.00
Item Counter 3
TOTAL 4,060.00
Cash 4,060.00

16/05/03 13:45 0039
THANK YOU
HAVE A NICE DAY
13.16 temporary PLU operation
Both in standard and simple PLU mode of G356, Temporary PLU registration can be done.
To use this function, TEMP key should be allocated by free function keyboard arrangement.

(PLU code) ———— PLU ———— no PLU error ———— TEMP ———— NNNNNN ———— Dep’t ————
NNNNNN : unit price

TEMP key is only effective when you try to release error status of no PLU error.
Unit price and linked department after the TEMP key entry is stored as PLU data at this
PLU code at the registration is completed.
There is no difference of PLU print format.
In case of standard PLU, initial data are following programmed.
  Descriptor : Pxxxxxxxx (9digit from left of PLU code)
  PLU status : “0” Fixed price PLU
  No single item PLU
  Taxable status : follow with link department status
  PLU group : “0”
Once temporary PLU is registered, this programming data is stored in G356 even if
you enter error correction key or void key after the registration.

13.17 Information PLU on display
It possible to visualize unit price of PLU during receipt.
  - press the “PLUinfo” key
  - Input the PLU’s code wished
    (or to read the bar-code of the PLU with the scanner or to press the HARD PLU key)
    The unit price of PLU is appeared on display.

13.18 MIXED TENDERING
Example :
  - after the several registrations, press the “SUB-TOTAL(R)” key
  - input the amount received by Check
(Eg. “TOTAL 3”)
  - press the ”TOTAL 3” key (CHEQUE)
  - close the receipt by ”TOTAL 1” key (CASH).
Note: the calculation of last amount is automatic.
13.19 PAYMENT BY FOREIGN CURRENCY
- after to have executed the registrations
- press the "Sub-Total(R)" key
- press the key of the currency wished (on the display will appear the equivalent value in currency, also with eventual decimals)
- input the amount received by currency also with decimals
- press the "CASH Total" key
Note: ⇒ it's possible to record mixed payments in various currencies during one same receipt:
⇒ possible tender will be always calculated in local currency.
⇒ the tendered foreign currency is added to F/C total. F/C counter and TOTAL1 counter are advanced by one .
Sales amount is added to TOTAL1.
Tendering amount in F/C

13.20 VISUALIZATION OF LAST SALE AMOUNT
It’s possible, at the end of one receipt, to recall on the clerk’s display the amount of the last sale; in order to make this it’ll be sufficient to press the "Total.1 (CASH)" key.
It’s possible also the callback of the sum of the last two sales, and this is obtained by "SUB-TOTAL(R)" key pression, the sum is possible also between two not-sale operations (R/A) or between sale and not-sale operations.

13.21 CHANGE PRINTED ON THE RECEIPT
- after to have executed the registrations
- press the "Sub-Total(R)" key
- input the amount received from the customer
- conclude the transaction with one of the Media Totals.
Note: the amount of the change can be subtracted from the Total used for the receipt closing or from the CASH Total, depending from the setting of Status System 4D.
13.22 no sale operation
Press “#/NS” key directly when it isn’t transaction.
There are two status.
S.S3-A 0= allowed
1= not allowed
No sale operation open the drawer.
S.S3-C 0= No sale operation is not allowed during transaction.
1= No sale operation is allowed during transaction.

When receipt OFF state, no sale operation are printed on journal
Only. Consecutive number is not increased.
Also when during transaction, no sale operation are printed on
Journal only. Consecutive number is not increased.
In both case, the no sale counter is advanced.
In case of receipt is issued, consecutive number is increased.

13.23 CHANGE ON DISPLAY
It’s possible to visualize the amount concerning to the change without that this comes
be printed on receipt : it is sufficient, after to have closed the receipt normally, to input the
amount received from the customer and to press "TOTAL 1 (CASH)" key.
It’s also possible to show on ECR's display the change concerning to the sum of the
last two receipts totals, in this case the change will be visualized by pressing "SUB-TOTAL
(R)" key instead of "TOTAL 1(CASH)" key.

13.24 E.C. (LAST REGISTRATION CORRECTION)
- Press "E.C." key immediately after the registration
to cancel (Dept., PLU, percentage, deduction, etc....).
Note : this operation influences the "Items counter". 
13.25 VOID (PREVIOUS REGISTRATION CORRECTION)

After the receipt beginning it is possible to VOID an amount concerning to a Dept. or a PLU also by using multiplication operations.

The only one tie for this type of VOID, is that the article in issue must belong to a Department whose VAT has been already used inside of the receipt in emission course.

The operations of VOID are subject to the definition in programming mode of the minimal limit (LALO) and the maximum limit (HALO) of accepted mount; if such limits come exceeded during the operation, the ECR will signal the condition by the errors E-177 overcoming maximum amount or E-178 overcoming the minimum amount.

Examples:

a)
- Press the "DEPT. 5" (with programmed price)
- input the amount 500,00
- press the "DEPT. 6"
- press "VOID" key
- Press the "DEPT. 5"
- close the receipt by "TOTAL 1" key (CASH).

b)
- Press "6" key
- press “X/TIME” key
- input the PLU code and press "PLU" key
- or read PLU bar-code by the scanner
- or press the Hard PLU key
- press the "VOID" key
- press "2" key
- press “X/TIME” key
- input the PLU code and press "PLU" key
- or read PLU bar-code by the scanner
- or press the Hard PLU key
- close the receipt by "TOTAL 1" key (CASH).

Note: this operation influences the "Items counter".
13.26 COMPLETE RECEIPT VOID

On G-356 it is possible, by the pression of one key only, to activate the VOID of the complete receipt, canceling all the executed registrations and closing the receipt with the TOTAL amount to zero.

We are speaking obviously about the "RECEIPT VOID" key; for obvious reasons of management of the sales’ movements inside the ECR’s memory, a limit about the number of registrations on a receipt after which the Receipt VOID will not be possible exists.

Such limit is of 99 registrations (receipt lines), to the attainment of which the ECR will visualize the message "Overcoming Limit" blinking on the display and will emit one acoustic signal; continuing with other registrations after the signal will be lost the possibility to execute the complete Receipt VOID in automatic mode.

It’s possible by the configuration of the S.S.3E, in case of Receipt VOID, to print on receipt the detail of the operations VOIEDED or only the complete amount VOIEDED.

CASE A
No detail printig

CASE B
Yes detail printing

<table>
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<tr>
<th>JCM GOLD ECR</th>
<th>MODEL G-356E</th>
<th>VERSION 1.02</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANITA</td>
<td>R #0002</td>
<td></td>
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</tbody>
</table>

- To execute registrations (max 99) by the functions available on the ECR.
- Press the "RECEIPT VOID" key.
- Depending from the setting of the S.S.3E the receipt will be closed with zero amount like described in the CASE A or in the CASE B.

**CASE A**

| Dep 32    | 20.00 |
| Dep 33    | 300.00|
| Dep 33    | 300.00|
| Dep 33    | 300.00|
| Dep 15    | 3.00  |

Subtotal: 923.00

Subtotal: 923.00

Receipt Void: 923.00

Item Counter: 0

TOTAL: 0.00

16/05/03 12:34 0020

THANK YOU

HAVE A NICE DAY

**CASE B**

| Dep 32    | 20.00 |
| Dep 33    | 300.00|
| Dep 33    | 300.00|
| Dep 33    | 300.00|
| Dep 15    | 3.00  |

Subtotal: 923.00

Subtotal: 923.00

Receipt Void: 923.00

*complete Recept VD*

Item Counter: 0

TOTAL: 0.00

16/05/03 12:035 0021

THANK YOU

HAVE A NICE DAY

Note: this operation influences the "Items counter".
13.27 RETURN MERCHANDISE

After to have begun a transaction, it’ll be possible to register the restitution of goods relatively to a Department or relatively to a PLU also with the eventual use of multiplication operations.

The operations of R.M. are subject to the definition in programming mode of the minimal limit (LALO) and the maximum limit (HALO) of accepted amount ; if such limits come exceeded during the operation, the ECR will signal the condition by the errors E-177 overcoming maximum amount or E-178 overcoming the minimum amount.

- During a receipt
- input the amount concerning the Return M.
- press "R.M." key
- press the Dept. concerning to the goods, or call the wished PLU
- to continue or to conclude the receipt.

Note : ⇒ this operation not influences the "Items counter".

13.28 PAID OUT

- Input the amount to draw
- press the "P/O" (1 or 2) key
- to conclude the receipt by a Total (no CREDIT)

Note: Are available until 2 P/O keys that can be used liberally inside of the same receipt ; each P/O key can have until 12 characters for the modifiable description .

The amount will be drawed from the drawer to which the Total of closing, used in order to close the receipt, is reported.
It's possible to activate on G-356 P/O operation also for amounts in foreign currency, as for example in order to remove the signal of the attainment of the limit of embedded in foreign currency, or, more simply, in order to register the removal from the DRAWER of an amount in foreign currency, this to have the quadrature of the ECR data.

In order to activate a P/O in foreign currency operate as followings:

- Input the amount in foreign currency to draw (Eg.: 50 $)
- press the CURRENCY key (Eg.: DOLLARS)
- press the "P/O" (1 or 2) key
- the operation will be automatically closed

equivalent amount of the drawing money in Local Currency

amount of the drawing money in Foreign Currency
13.29 OPERATIONS WITH CALCULATION IN PERCENTAGE
13.29-1 item %

It’s possible to execute reductions in price or additional charge in percentage either reported to a Department/PLU (case a.), than reported to the “Sub-Total” (case b.).

In this last case the deducted or added amount will be shared proportionally between all the Departments used until that point of the receipt, rendering, in this way, meaningful the VAT management.

It’s possible moreover, by the setting of S.S.3D = 1, to activate the net amount printing on receipt after the percentage operation (case c.).

- After the registrations on the Department or on the PLU, input the rate value of the percentage in issue or to press directly the "%" key with programmed rate (case a.)
- press the "%" key wished (whose sign +/- it has been programmed)
- after the registrations on the Departments or of the PLU, press the "SUB-TOTAL (R)" key (case b.)
- input the rate value of the percentage in issue or to press directly the "%" key with programmed rate
- press the "%" key wished (whose sign +/- it has been programmed)
- close the receipt.

---

**CASE A ITEM %**

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<th>VERSION 1.02</th>
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<tr>
<td>#1 COKE</td>
<td></td>
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<tr>
<td>Dep 24</td>
<td>2,000.00</td>
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<td>10.000%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%1</td>
<td>200.00</td>
<td></td>
</tr>
<tr>
<td>net 2,200,00</td>
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<tr>
<td>Dep 27</td>
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THANK YOU
HAVE A NICE DAY

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**CASE B ST %**

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<tr>
<td>16/05/03</td>
<td>13:08</td>
<td>0026</td>
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</table>

THANK YOU
HAVE A NICE DAY

---

**CASE C**

**Note:**
- After the registrations on the Department or on the PLU, input the rate value of the percentage in issue or to press directly the "%" key with programmed rate (case a.)
- press the "%" key wished (whose sign +/- it has been programmed)
- after the registrations on the Departments or of the PLU, press the "SUB-TOTAL (R)" key (case b.)
- input the rate value of the percentage in issue or to press directly the "%" key with programmed rate
- press the "%" key wished (whose sign +/- it has been programmed)
- close the receipt.
13.29-2 Sub Total (+)(-),%  
When any tax itemizer is negative, this operation is prohibited and error condition will occur.

VAT VERSION
The deducted amount will be shared proportionally between all the departments used until that point of receipt.
The tax status of (+),(-),% are ignored.

TAX VERSION
The deducted amount will be shared proportionally between all the departments used until that point of receipt.
The deducted amount will be affect to tax itemizer according to tax status of (+),(-),% key.
There is an option in S.S 4A.
When S.S 4A=1, subtotal %,(-)(+) operation will not affect to all the departments.
13.30 STUB RECEIPTS

After to have concluded a transaction with one of Totals closing, press the key correspondent to TOTAL 3 (this function is subject to the S.S.2A).

By the configuration of the S.S.1F it’ll be possible to activate the printing of stub receipt in detailed mode (containing all the data printed on previous receipt, case a.), or in consolidated mode (containing only the previous receipt’s TOTAL, case b.).

For obvious reasons of the ECR’s memory dimension, there is a limit about the number of registrations on a receipt after which the detailed stub receipt will not be possible.

Such limit is of 99 registrations (receipt lines), to the attainment of which the ECR will visualize the message blinking on the display and will emit one acoustic signaling.

Continuing with other registrations after the signal will cause the loosing of the possibility to execute the detailed stub receipt, in any case the stub receipt executed after this signal will contain the previous receipt Total only.

Example:  
18000 DEPT. 27  
39000 DEPT. 27  
15600 DEPT. 39  
35000 DEPT. 21  
68000 DEPT. 32  
TOTAL1 TD
(first receipt printing)

Total 3 (see following point, stub receipt printing).

Note: in order to activate this function, the Status 2A must be set = 0.

13.27.1 STUB RECEIPTS EXAMPLES

Case a. S.S.1F=0

** JCM GOLD ECR  
MODEL G-356E  
VERSION 1.02  
**  
ANITA    R #0002  
#1  
Dep  27     180.00  
Dep  27     390.00  
Dep  39     156.00  
Dep  21     350.00  
Dep  32     680.00  
Item Counter    5  
CASH  1,756.00  
16/05/03 11-06   0027  
THANK YOU  
HAVE A NICE DAY

Case B S.S.1F=1

** JCM GOLD ECR  
MODEL G-356E  
VERSION 1.02  
**  
ANITA    R #0002  
#1  
CASH  1,756.00  
16/05/03 11-06   0027  
THANK YOU  
HAVE A NICE DAY

max 99 lines

Note: The consecutive number must be same as registration.
13.31 REGISTRATION ON PB CODE
The ways for the operations on a PB (CLIENT) are following:

1) \[ \text{PB} (XX...X) \quad \text{PB} \quad (\text{REGISTRATIONS}) \quad \text{TOTAL} \]
   or

2) \[ (\text{REGISTRATIONS}) \quad \text{SUB-TOT}(R) \quad (XX...X) \quad \text{PB} \quad \text{TOTAL} \]

- XX..X = PB code (Max. 4 digits) in case of Internal PB
  PB code (Max. 12 digits) in case of External PB

- In case of reading with the SCANNER of a label with the customer code (External PB only), the code will be managed like following:
  code on the label = "29XXXXXXXXXQC"
  code managed by ECR = XXXXXXXXXX
  Second digit of the PB's bar-code must be "9" fix, other EAN-13 that begins with "2" and with the second digit different from "9" must activate a PLU request.

- In case that the PB operation is closed by a Total with the Total Status "A" set to "2" (Credit) the PB Balance must be changed by the operation, in case that the PB operation is closed by a Total with the Total Status "A" set to "1" (Cash) or set to "3" (Other) the PB Balance must not be changed by the operation.

13.32.1 Code inserted before the registrations:
- press the "PB" key
- input the code of the customer and press the "PB" key again,
  or read with the Scanner the Shop Card with the bar-code of the customer in case of External PB
- execute the registrations
- close the receipt with a Total.

customer code (the code printing can be disactivate by S.S.3B)
<1>
customer name (in case of External PB only)
registration on Department

---

JCM GOLD ECR
MODEL G-356E
VERSION 1.02

ANITA R #0002
<1>
PB<>
Dep 21 3.00
Item 1
TOTAL 3.00
TOTAL4 3.00
16/05/03 13:15 0028

THANK YOU
HAVE A NICE DAY
13.32.2 Code inserted after the registrations:

- execute the registrations
- press the "SUB-TOTAL(R)" key
- input the code of the customer and press the "PB" key again, or read with the Scanner the Shop Card with the bar-code of the customer, in case of External PB only.
- close the receipt with a Total.

registration on Department

registration on PLU

customer code (the code printing can be disactivate by S.S.3B)

Note: the closing of the receipt with the CREDIT total increase the balance totalizer. Closing instead of a Total different from CREDIT, balance totalizer will not be modified.

13.32.3 BALANCE PRINTING

- Input the PB code
- press "PB" key
  (or to read to the customer (PB) code with the scanner in case of Ext. PB only)
- press "NB" key.********

customer name (in case of External PB only)
Balance previous to the last credit operations on the Customer Amount of the last credit operations on the customer Definitive current balance of the Customer (New Balance)

Note: if the operation described over is executed for two times consecutively without any registration on the PB infra-located, the TOTAL will be omitted and the NEW BALANCE will be equivalent to the BALANCE less the amount indicated on "CASH" line.
13.32.4 PARTIAL PAYMENT OF THE BALANCE
- Input the "PB" code and press the "PB" key
- Or read to the customer code with the scanner
- input the amount received like partial payment of the Balance
- press a Total key (Eg.: total3) (No CREDIT Total)
- close by "NB" key pression.

Balance previous to the last credit operations on the Customer ______
Amount paid by the customer ____________________________
Definitive current balance of the Customer (New Balance) ______

16/05/03 13-28 0031
THANK YOU
HAVE A NICE DAY

13.32.5 COMPLETE PAYMENT OF THE BALANCE
- Input the "PB" code and press the "PB" key
- Or read to the customer code with the scanner
- press a Total key (No CREDIT Total)

Note:
1) It’s possible to execute the change calculation printed on receipt
2) The amount won’t be memorized in Net sales Total
3) The "TOTAL" line won’t be printed in case that new operations closed by credit that haven’t been already evidenced with one of the operations indicated above doesn’t exist for the customer.
In this case the amount indicated in the BALANCE line will be the same one indicated like payment in the CASH line.

16/05/03 13-30 0032
THANK YOU
HAVE A NICE DAY
13.32.6 MANUAL INCREMENT OF THE BALANCE (DEBIT)

- Input the “PB” code and press the “DEBIT” key
- Or press the “DEBIT” key and read the customer’s PB bar-code with the scanner in case of External PB only
- input the wished amount
- close the operation with "NB" key.

Note: ⇒ The Debit amount doesn’t come added in the Net SALES total.
⇒ The customer’s code will be printed on receipt also if not enabled
⇒ The "TOTAL" line won’t be printed in case that new operations closed by credit that haven’t been already evidenced with one of the operations indicated at points 13.32.3 and 13.32.4 doesn’t exist for the customer.

13.32.7 MANUAL DECREMENT OF THE BALANCE (DEPOSIT)

- Input the "PB" code and press the "DEPOSIT" key
- Or press the “DEPOSIT” key and read the customer’s PB bar-code with the scanner in case of External PB only
- input the wished amount
- press the wished Total (No CREDIT)
- close the operation with "NB" key.

Note: ⇒ The Deposit amount doesn’t come added in the Net SALES total.
⇒ The customer’s code will be printed on receipt also if not enabled
⇒ The "TOTAL" line won’t be printed in case that new operations closed by credit that haven’t been already evidenced with one of the operations indicated at points 13.32.3 and 13.32.4 doesn’t exist for the customer.
13.33 NUMERIC CODE PRINTING
It's possible to print, at anytime during the receipt, a numeric code for internal managerial using.
- Input the code in issue
- press the "/#NS" key.
Note: Please be noted that the operation [9999]---[#/NS], asserts the function "Cash declaration".

Press the "Prints alphanumeric string" key
input the string in issue by using the alphabetical keys with double function and by using the numeric keyboard also press the "X/TIME" key
press the "/# NS" key.

noe: the alphanumeric string to print can be inserted at anytime, also before the receipt beginning.
13.35 EXTERNAL PLU WITH ALPHANUMERIC CODE REQUEST
- Press the “Prints alphanumeric string” key
- input the PLU code in issue by using the alphabetical keys with double function
  and the numerical keyboard (Max. 16 characters)
- press the “X/TIME” key
- press the “PLU” key.

13.36 UP/DOWN RECEIPT
On G-356 a new function key exists that consents to execute one verification on the
receipt of the last line printed without to waste paper.
By this key it will be possible to make to advance the receipt until last line exit from
the ECR’s printer, at this point it’ll be possible to verify the printed data, and after by another
pression of the same key the receipt will be retreat until the initial point and after it’ll
be possible to continue with the input of new registrations.
- Execute the registrations.
- In case on executed operation there is some doubt about the last registration,
  to press "Up/Down receipt" key.
- The receipt will advance in automatic mode until bringing out from the printer the
  last printed line.
- To verify the printed data.
- To press newly the "Up/Down receipt" key, the receipt’s paper will bring back in
  automatic mode in the initial position.
- To continue with the registrations without in this way to waste paper.

13.37 VAT DATA PRINTING ON RECEIPT
It’s possible to print VAT data on the receipts in two different ways: in fixed way
(printing therefore VAT data always on all the receipts produced) by the setting of the S.S.
1E=1, or by the pressing of “VAT Printing” key (printing therefore VAT data only on the
wished receipts).
In case the VAT data printing has been defined in fix mode by
of S. S. 1E, they will be always printed in automatic mode,
in order to activate instead the VAT data printing by the
pression of “VAT Printing” key, to execute the here following
described procedure.

The symbol “V1” &”3” are printed or not
According S.S1·H

- To execute the registrations inside of the
  receipt.
- Press the Sub-Total(R) key.
- Press the “VAT Printing” key (not present like
default on G-356’s keyboard).
- Close the receipt, also using the change
calculation or a mixed payment.
  VAT data concerning the receipt

<table>
<thead>
<tr>
<th>JCM GOLD ECR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MODEL G-356E</strong></td>
</tr>
<tr>
<td><strong>VERSION 1.02</strong></td>
</tr>
</tbody>
</table>
**ANITA R #0002** |
FRUIT V1 30.00  |
Dep’t03 V3 50.00  |
------------------------------------------------|
**Subtotal** 80.00  |
VAT N.S.1 27.27  |
Vat1 10.00% 2.73  |
VAT N.S.3 47.39  |
VAT3 5.50% 2.61  |
Item Counter 2  |
**TOTAL** 80.00  |
Cash 80.00  |
16/05/03 13:39 0038  |
THANK YOU  |
HAVE A NICE DAY
13.38 SECOND LANGUAGE

It’s possible to visualize "fix" messages, like for example, the names of function keys as VOID, Return Merchandise, E.C. etc..., error messages, the fix descriptions, etc..., in two different languages.

The first of the two languages, it is the National Language (default English), the language that the ECR has in its fixed memory (EPROM).

The second language with which the ECR can visualize and print all the "fix" messages, can be up-loaded by a PC, in the ECR’s memory through the serial port ; in this mode it will be possible to up-load in the ECR’s memory case for case the wished language (Eg.: French, German, English, etc...).

By the setting of the S.S.7H, it will be possible to define which of the two languages must be assumed from the ECR like default language, and moreover by the pression of the "Second Language" key, it will be possible to pass from a language to the other one (if not open receipt on ECR). Activating the language "not of default" on the ECR the symbol "L2" will appear on the left side of the display.

- In order to pass to the language "not of default", press the "Second Language" key before the receipt beginning (on the left of the display "L2" will appear).
- To execute the operations and to close the receipt.
- Press the "Second Language" key in order to return to the default language.

13.39 WARNING AMOUNT LIMIT

It is possible to define, on G-356, the limits of the Cash in Drawer for the Drawer and for the received amounts in foreign currency ; such limits can be defined in programming mode on the ECR (see PROGRAMMING Manual).

To the overcoming of one or more of the limits in issue, the ECR will activate at every receipt closing an acoustic message of signal (beep-beep-beep) accompanied from a message on the display :

LC (numeric display) = For Cash in Drawer limit
LFC (numeric display) = For Foreign Currency limit

Such message of warning will appear, after the overcoming of the limit, to every closing of receipt, the signal in object will not prevent in no way the working on the ECR but it will inform the clerk that it’s the time to remove money from the drawer.

To disable the signal it will be necessary, beside to remove the money from the Drawer, to activate a relative procedure of P/O of money to the value that has activated the signal (for the P/O procedure see Par. 13.28 of this manual).

So, for example, to disable the signal concerning the overcoming of the amount registered in Drawer, it’ll be necessary to activate one P/O procedure by closing the operation with the use of a Total.
It's possible to void the item percent operation (Dep't, PLU).
The voided percent amount is affect to following totalizer with a sign.
And it affect appropriate item amount too (Dep't or PLU).

<table>
<thead>
<tr>
<th>Totalizer</th>
<th>Amount</th>
<th>Counter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Void</td>
<td>Affect with a sign</td>
<td>+1</td>
</tr>
<tr>
<td>%,(-),(+)</td>
<td>&quot;</td>
<td>-1</td>
</tr>
<tr>
<td>Item%,item(-),item(+)</td>
<td>&quot;</td>
<td>-1</td>
</tr>
<tr>
<td>Itemizer</td>
<td>&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Dep't counter and PLU counter are not affected.
Key operation example are follow.

1500 Void Dep't 10 %
500 (-)
123 Void PLU 230 (+)

For the void operation to the item %, item(-) and item(+) operation,
the display and the printing are performed.
The voided amount with a sign will appear.
The printing is performed with “VOID” sign.

13.41 item%,item(-),item(+) for minus item.
Minus item are following item
(1) Return merchandise item
(2) Minus department
(3) Minus PLU
The calculated amount is affect to appropriate item with sign.
Either counter of item%, item(-) and item(+) is advanced.

13.42 VAT empty
it's possible to cancel all computed tax.
Example
10000----Dep't1(vat1) ----Dep't2(vat2)----Dep't3

sub total-----VAT/empty------total1

13.43 2nd price key
It's possible, in Prg. mode, to set two prices for each Department; by the pressing
of the Second price Department key immediately before the pressing of the Department,
the sale will be executed using the second price programmed on ECR.
Obviously the use of this key has sense only in case that the second price on the
Departments is programmed, once activated the second price of the Departments, it will
remain active until to the new pressing of the same key Second price Departments.
13.44 level shift key (A-E)

13.44.1 level indication

In case of level shift key is active, the symbol of level is displayed in the most left side.

It displayed in the REG or supervisor mode only.

![Level Shift Status]

Level shift status. It indicate only REG & supervisor mode.

Level A : A Level B : B Level C : C

Level D : D Level E : E

13.44.2 operation

example

following function are preset into key1.

Level A : direct PLU No.1
Level B : direct PLU No.101
Level C : direct PLU No.201
Level D : Direct PLU No.301

Case1: the level is effective by next level key.

![Case 1 Example]

Case2: the level is effective by next key only.

![Case 2 Example]

13.45 Hold/Recall operation

13.45.1 Hold

(registration) — Hold/Recall

note: This operation can be applied one transaction only.

The transaction data is saved to hold/recall area.

13.45.2 Recall

— Hold/Recall

After recall operation, the registration and finalizing is operable.

And transaction void operation is operable.
13.46 GST function
GST is operable for both TAX and VAT mode with different TAX calculation.

But in TAX mode, a combination of ADD-ON TAXABLE and GST NON-TAXABLE is not available.

GST is executed by programming of the rate other than ZERO.

In TAX mode, when GST is operable, if TAX(1~2) is programmed as TAXABLE, GST calculation is automatically executed regardless of the status of GST.

GST status programming is done for DEPT and PLU status programming.

In case GST is operable, GST calculation is performed automatically upon finalizing.

< Print example 1> VAT mode

```
<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dep 01</td>
<td>50,00</td>
</tr>
<tr>
<td>Dep02 V1*</td>
<td>120,00</td>
</tr>
<tr>
<td>Dep 03 V1*</td>
<td>30,00</td>
</tr>
<tr>
<td>Sub total</td>
<td>200,00</td>
</tr>
</tbody>
</table>

VAT net sales: 136,40
VAT1 taxable 10.00%: 13,60
GST 15,00

Item Counter: 3
TOTAL: 215,00
Cash: 215,00

16/05/03 12:59 0024
THANK YOU
HAVE A NICE DAY

------------------------------------------------
JCM GOLD
MODEL G-356E
VERSION 1.02
------------------------------------------------
ANITA R #0002

VAT nontaxable , GST nontaxable
VAT1 taxable , GST taxable
VAT1 taxable , GST taxable

* symbol of GST taxable item
(S.S.6H 0=print 1=not print)

GST not affected to VAT
GST amount(10%)

(Calculation with TAX included amount)
Description is programmable
Refer to 6.29
```
< Print example 2> ADD ON TAX mode

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dep 01</td>
<td>TAX1 nontaxable, GST non taxable</td>
<td>50.00</td>
</tr>
<tr>
<td>Dep 02 T1</td>
<td>TAX1 taxable, GST taxable</td>
<td>120.00</td>
</tr>
<tr>
<td>Dep 03 T1</td>
<td>VAT1 taxable, GST taxable</td>
<td>30.00</td>
</tr>
</tbody>
</table>

Sub total: 200.00
TAX1: 15.00
GST: 16.50
Item Counter: 3
TOTAL: 231.50
Cash: 231.50

16/05/03 12:59
0024

THANK YOU
HAVE A NICE DAY
13.47 EFT FUNCTION
The POS terminal is an EFT terminal with RS-232 port and it can be connected to the G-356 (SCOM 0, or 1). However the keys “EFT” (key code “060”) and “EFT Void” (key code “061”) will be available on G-356 in order to allow the EFT transaction or EFT abort. As for criteria of finalization of the receipt, the POS will send some specific data in order to allow G-356 for automatic receipt closing on Total9.

13.47.1 ECR setting(SCOM1~4)

Prog mode  4----( )

SCOM port setting  
95  X/time  6XXX  Subtotal  #/NS  (SCOM1=EFT)

SCOM mode setting  
88  X/Time  ABCDE  Subtotal  #/NS

A  data bit number  0 = 7 bit  
1 = 8 bit

B  parity  0 = even  
1 = odd  
2 = no parity

C  stop bit number  0 = 1 stop bit  
1 = 2 stop bit

D  communication speed (bps)  
5 = 300 BPS  
4 = 600 BPS  
3 = 1200 BPS  
2 = 2400 BPS  
1 = 4800 BPS  
0 = 9600 BPS

E  Other payments  
0 = No other payment record sending  
1 = Yes other payment record sending

10.47.2 EFT operation

Operation procedure
Various registration on ECR by departments or PLUs.

a) Purchase

Subtotal  EFT

ECR send a sales amount to EFT.
ECR receive print/display messages from EFT.
ECR decodes to local mode.
Sales amount is added to TOTAL9.
Total9s counter is incremented by one.

b) Purchase with cash back

Subtotal  tendered amount  EFT  (over tendering)

ECR send a tendered amount and a purchased amount.
ECR receive print/display messages.
ECR decodes to local mode.
The purchased amount is added to total9.
The cash back amount is subtracted from C.I.D.
c) **Reverse last transaction**
   Total amount must be same as the previous.
   Minus operation (R.M etc) EFT
   ECR send a reversal amount
   ECR receive print/display messages.
   ECR decode to local mode.

   d) **Partial tender transaction**
   Subtotal tendered amount EFT (short tendering)
   ECR send a tendered amount to EFT.
   ECR receive print/display messages.
   The tendered amount is added to total9.
   Total9s counter is increment by one.
   Operator cancel during a transaction
   EFT EFT void
   ECR send a message with ADM, CODE=H3132
   ECR receive print/display messages.
   ECR decode to local mode.

   Note: The status of total9 used for control EFT operation.
   Cash back by EFT is controlled by status B of total9.
   When over tendering is disallowed, cash back operation by EFT will
   cause error condition, moreover E215 will displayed.
   All status of total9 is affected with EFT operation.
   **Default setting of total9 is “3101”**.
   Add to other (no cash, no credit)
   Disallow over tendering
   Tendering is not compulsory
   Disallow drawer opening
   S.S.4D affects to EFT function.
   In case of cash back operation, change due is treated according to S.S4D status.
The G-356 series, beyond than the "normal" receipt, allows to emit other types of documents, this to satisfy the requirements of some categories of business activities like for example the Restaurants, Pizza houses, Bar, etc....

The following examples make reference to the Restaurants shops, but in any case a lot of operations here described for Restaurants shops can be used at same mode for other shops also.

14.1 (BILL) PRINTING

For the automatic printing of the quantity "1Q", to set the S.S.9F=1.
- Place a paper sheet in the external Slip Printer
- press the (BILL) key
- to execute the registrations by the Depts. and/or the PLUs
- to conclude the transaction by using a Total.

```
Managerial receipt

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3Q</td>
<td>EGGS</td>
<td>22,00</td>
</tr>
<tr>
<td>2Q</td>
<td>CORNED BEEF</td>
<td>60,00</td>
</tr>
<tr>
<td>1Q</td>
<td>HAM</td>
<td>53,00</td>
</tr>
<tr>
<td>1Q</td>
<td>TOMATO</td>
<td>85,00</td>
</tr>
<tr>
<td>1Q</td>
<td>BAKED BEANS</td>
<td>95,00</td>
</tr>
<tr>
<td>1Q</td>
<td>BUTTER POTATO</td>
<td>74,00</td>
</tr>
<tr>
<td>2Q</td>
<td>TUNA</td>
<td>210,00</td>
</tr>
<tr>
<td>1Q</td>
<td>BACON</td>
<td>129,00</td>
</tr>
<tr>
<td>2Q</td>
<td>TURKEY</td>
<td>140,00</td>
</tr>
<tr>
<td>2Q</td>
<td>AVOCADO</td>
<td>178,00</td>
</tr>
<tr>
<td>1Q</td>
<td>PINAPPLE</td>
<td>180,00</td>
</tr>
<tr>
<td>1Q</td>
<td>BROCCOLI</td>
<td>42,00</td>
</tr>
<tr>
<td>3Q</td>
<td>CAFFE'</td>
<td>66,00</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td>1.438,00</td>
</tr>
</tbody>
</table>

26/06/03 20:09 00180
```

```
Bill descriptor
Incase S.S9.A=1,
Descriptor is not printed
```

```
BILL N. 000019
26/06/03 A0127 20:09
```

```
3Q 22,00
EGGS 66,00
2Q 60,00
CORNED BEEF 120,00
1Q 53,00
HAM 53,00
1Q 85,00
TOMATO 85,00
1Q 95,00
BAKED BEANS 95,00
1Q 74,00
BUTTER POTATO 74,00
2Q 105,00
TUNA 210,00
1Q 129,00
BACON 129,00
2Q 70,00
TURKEY 140,00
2Q 89,00
AVOCADO 178,00
1Q 180,00
PINAPPLE 180,00
1Q 42,00
BROCCOLI 42,00
3Q 22,00
CAFFE' 66,00
**TOTAL** 1.438,00

26/06/03 20:09 00180
```
14.3 WHITE LINES ON SLIP Before printing beginning
On G-356 a “fix” number of advance lines can be defined in programming mode, these lines of advance will be executed in automatic mode at every activation of the printing of a document in the Slip Printer (Bill).

The purpose of this function is obviously that to give the possibility of to use with the ECR and Slip Printer paper modules with the Restaurant’s heading printed of various dimensions.

The number of white lines definable during the ECR programming can go from 0 (zero) to 20 (twenty).

Beyond to the lines defined in programming, in G-356 it will be possible also to insert other lines (until 20) of advance in manual way, in order to insert in manual way the ulterior lines of advance, to execute following steps:

- Place a paper sheet in the external Slip Printer.
- Press the "SLIP" key.
- Before beginning the registrations, to input the number of lines with which it is wanted to advance the paper sheet inserted in the Slip Printer, as an example "12" (the number of lines cannot exceed the 20).
- Press again the "SLIP" key, the key pressed at this point must be the same one pressed previously.
- At this point the Slip Printer will make to advance the paper with the number of input lines.
- To continue now with the registrations.
15 SPECIAL OPERATING FUNCTIONS

In this paragraph they are described to all those operating modalities and functional particulars, that typically are different from what it can be defined like normal operating way of the ECR.

It’s in particular about of operation concerning to the control, the verification, the instruction, quadrate of the book keeping data, etc....

15.1 TRANSFER OF AMOUNTS BETWEEN TOTALS OF CLOSING

In G-356 it is possible to activate an operating modality that allows to execute a transfer of amount between two different totals of closing.

Such operatively has been previewed to give the possibility to correct eventual errors executed from the clerk during the operations, which it has used, like Total of closing in order to close the operation, the Total not corrected in relation to the real payment mode used from the customer (Eg.: operation closed with total "CASH" while the customer has paid with a "Check") ; it's obvious that an error like this false in the ECR the correct management of the payment modes.

For this reason by the procedure described here below, it’ll be possible to execute the transfer of the amount paid with a Check but erroneously registered in the Total Cash, take it out from the totalizer "Cash" and passing it to the totalizer "Checks".

- To set the ECR in "X" mode.
- To input "77".
- To press the "TOT. 2 (Credit)" key.
- To input the amount to transfer between the two Totals, Eg.: 45,60.
- To press the key of the Total from which the amount it must be removed, Eg.: CASH.
- To press the key of the Total in which the amount must be transferred, Eg.: Checks.
- To close the operation by the pression of the "TOTAL 1 (Cash)" key.

Note: The operation described above will activate the movement between the two Totals of the inserted amount but it will not correct the number of the registrations made on the same Totals. Therefore, in the case indicate on the example, we will have the correct amount of the registrations made during the day but we will find again one registration in more on the Total CASH and one in minus on the Total Checks.
15.2 VAT DATA ADJUSTMENT

If during a period they come made on the ECR one or more errors that compromise the correctness of VAT data, the production of P-T-D VAT relationship will lose its sense, because a manual corrections to the data produced from the ECR must be activated.

For the described reasons, a new operating modality has been introduced on G-356, it allows to correct VAT data after eventual wrong operations on the ECR (Eg.: sale registered on a wrong Dept. with consequent not correct VAT data memorization, closing of one wrong receipt, etc...).

The example of the operation described here below is concerning to the correction of VAT data executed as a result of an operation of registration on the wrong Dept., where a sale of 1,000,00 to register on the Dept.1 (VAT 1 - 19%) has been instead registered on Dept.2 (VAT 2 - 9%).

Since the correction of VAT data is executed by the input on the ECR of the correct daily VAT amount, it will be necessary, like first thing, to execute the printing of daily VAT relationship (X--31--Tot.1). On this report it’s necessary to identify the amount of the VAT to modify and to add or to detract to the VAT total the amount in object (Eg.: VAT 1 "4,560,00", with 1,000,00 in more due to the indicated error; it’ll have to input like correct amount 3,560,00; VAT 2 "5,374,00", with 1,000,00 in minus due to the indicated error, it’ll have to input like correct amount 6,374,00)

- To set the ECR in "X" mode.
- To input "88".
- To press the "TOT. 2 (Credit)" key.
- To input the VAT code to correct (Eg.: "1") and to press "X/TIME" key.
- To input the the correct VAT amount to introduce in the ECR (Eg.: 3,560,00).
- To press the "SUB-TOTAL(R)" key.
- To input the next VAT code to correct (Eg.: "2") and to press the “X/TIME” key.
- To input the correct VAT amount to introduce in the ECR (Eg.: 6,374,00).
- To press the "SUB-TOTAL(R)" key.
- To close the operation by the pression of the "TOTAL 1 (Cash)" key.

VAT DATA ADJUSTMENT PROCEDURE :

To repeat for another VAT rate

\[
\text{KEY} \quad (88) \quad \text{Tot.2} \quad (V) \quad \text{X/TIME} \quad (\text{NNN..N}) \quad \text{Sub-TOTAL} \quad \text{Tot.1}
\]

\[
\text{V} = \text{VAT code to which reporting the amount}
\]

\[
\text{NNN..N} = \text{New VAT amount}
\]
15.3 SUPERVISOR USING
In case on G-356 the SUPERVISOR is used to give the possibility to control and to execute operations delicate, the SUPERVISOR will be able to be replace, also during a receipt, not qualified clerk and to execute the operation in object in order to give again at the operation end, the continuation of the receipt to the clerk that had begun it.

As an example the SUPERVISOR can replace the clerk that isn't allowed to execute E.C. operations, SUPERVISOR can execute the E.C. operation and at the end to give back the continuation of the receipt to previous clerk.

The operations that can be limited in selective mode for each Clerk are:

- E.C.        · VOID
- % 1         · P/O 1
- % 2         · P/O 2
- % 3         · P/O 3
- (+)         · Transaction void
- (-)         · R.M.

The SUPERVISOR can replace himself to the Clerk during a receipt.

In the following examples the execution of an operation of E.C. from the SUPERVISOR.

15.3.1 Clerks and SUPERVISOR by codes:
- After the several registrations executed by the Clerk, at the attempt from the same one to execute the operation to which he isn't allowed, the ECR will signal the lack of qualification by the error E171 - Non authorized.
  · To remove the error by CL key.
  · To press the Clerk key.
  · To input the SUPERVISOR's code (Eg.: 123456).
  · To press the Clerk key again.
  · To press the E.C. key.
  · To continue with the other registrations.

Note: The SUPERVISOR can replace itself to the Clerk in order to execute all the operations delicate indicated above, the SUPERVISOR code will be necessary also in order to set the ECR in Prg. mode instead than the procedure (4)--Key.
15.4 VISUALIZATION of the DATA of INTERNAL/EXTERNAL PLU

It's possible to visualize on display the programming data of internal PLU (programmed on the ECR’s memory) and the data of external PLU (on PC) besides the bar-codes read with the scanner can be showed on display; this function can be activated in the "S" mode.

In order to activate the function of control of internal PLU and PB to execute:

(0)

directly from the "Reg." mode, it will be obviously necessary that there aren't open receipts (the function "S" does not have secrets codes for the activation).

VERIFICATION OF INTERNAL/EXTERNAL "PLU" DATA:

After to have executed the above described operation to continue as following:

- - OPERATION --                                             -- DISPLAY --
1) (NNN..N) PLU NNN..N = PLU code 4901201202155

Note: The sequence (NNN... N) PLU can be replaced from the reading through scanner of the product’s bar-code or from the pression of direct PLU key

2) PLU Department No. 01

3) PLU PLU price 850

Note: if the PLU doesn’t exist on memory, the point 2 execution will cause an ERROR.

15.5 "CALCULATOR" FUNCTION

On G-356 is possible to activate the function "CALCULATOR", that allows to execute, on the ECR’s display (without therefore that nothing it is printed on paper), the four operations (addition, subtraction, division and multiplication).

Besides not executing not any type of printing, the operations executed by the "CALCULATOR" modality don’t modify neither not any type of totalizer and/or counter in the ECR's memory.

In order to activate this function it will be necessary to put on the ECR's keyboard five keys "+", "-", "X", "÷" and "=" for the positioning of these keys you have to see the "Programming Manual" (keys respective codes 066, 067, 068, 069 and 070).

With the key-pad above indicated for the "CALCULATOR" function, it will be possible to be operated like on a normal calculator, the input digits and the result of the operations will be visualized either on the operating's display than on customer’s display.

In order to remove eventual amounts inserted in wrong way or eventual error conditions, normal "CL" key present in ECR’s keyboard can be used.

Operation Calculator:

\[
\begin{align*}
\text{KEY} & \quad \text{R} \quad \text{PPPPPPPPP} \quad +, \quad - \quad \times, \quad ÷ \quad \text{PPPPPPPPP} \quad = \\
\text{PPPPPPPPP} & \quad \text{amounts input for the calculation, max. 9 digits comprised eventual decimal digits.}
\end{align*}
\]

Note: eventual overflow situations will be indicated from the error E140.
15.6 electronic journal function

The data is saved to CMOS RAM as journal printing format.
Following data are saved to CMOS RAM.
   (1) REG mode
       Normal printing data
   (2) X, Z, P mode
       Date, time, receipt number
       Clerk code, mode symbol, machine number.

procedure
If electronic journal(EJ) data memory become near full (about 4500line),
between transactions ECR will display “J FULL”,
If EJ data is not reset, ECR continue to save EJ data.
When EJ data become full (5000line), it automatically reset without printout.

Read and reset EJ memory
   Report code : 600
   X mode: 600____cash
       The ECR will automatically print EJ data on the receipt.
       The EJ data is not reset.
   Z mode : 600____cash
       The ECR will automatically printout EJ data on the receipt.
       And EJ data will cleared.
   Z mode : 602____cash

PC operation
The down-load command from PC is available.
The command “600” is for down-load from ECR to PC.
The command “620” is reset the EJ data.
Protocol
(1) Electronic journal data download

PC

Command
“600”

ENQ Block

ACK

ENQ block

ECR

Electronic Journal data1
ECR

Electronic Journal data2
ECR

Block with “EM”

Electronic Journal data N
ECR

Block without “EM”

(2) Electronic Journal data reset

PC

Command
“620”

ENQ Block

ACK

ECR

Electronic Journal data
ECR

Status “A”

EO T
(3) Electronic journal data block (from ECR to PC)

The ECR sends one or more blocks at all similar to those of journal print data, constituted from strings of fixed length of 25 bytes.

Each block is like than journal print data blocks, constituted from a maximum of 9 strings: the ECR inserts the character “EM” on last block only.

<table>
<thead>
<tr>
<th>1 2 3 4 5 6 7</th>
<th>ADDS = ECR address</th>
</tr>
</thead>
<tbody>
<tr>
<td>S O H</td>
<td>ADDS BC ST DX</td>
</tr>
<tr>
<td>S B T D X T</td>
<td>BDT =”x” 78H</td>
</tr>
<tr>
<td>8 9 10 11 12</td>
<td>13 ................ 32</td>
</tr>
<tr>
<td>Line number</td>
<td>Journal print data #1 (20 byte)</td>
</tr>
<tr>
<td>NNNNN</td>
<td></td>
</tr>
<tr>
<td>33 34 35 36 37</td>
<td>38 .......................... 57</td>
</tr>
<tr>
<td>Line number</td>
<td>Journal print data #2 (20 byte)</td>
</tr>
<tr>
<td>NNNNN</td>
<td></td>
</tr>
<tr>
<td>58 59 60 61 62</td>
<td>63 .......................... 206 207</td>
</tr>
<tr>
<td>Line number</td>
<td>Journal print data</td>
</tr>
<tr>
<td>NNNNN</td>
<td>From #3 to #8(20 byte for each string)</td>
</tr>
<tr>
<td>208 209 210 211 212</td>
<td>213 .......................... 232</td>
</tr>
<tr>
<td>Line number</td>
<td>Journal print data</td>
</tr>
<tr>
<td>NNNNN</td>
<td>#9 20byte</td>
</tr>
<tr>
<td>233 234 235</td>
<td>Last block case</td>
</tr>
<tr>
<td>E E B</td>
<td>E B</td>
</tr>
<tr>
<td>M T C</td>
<td>T C</td>
</tr>
<tr>
<td>X C</td>
<td>X C</td>
</tr>
<tr>
<td>While in the case of Intermediate block</td>
<td></td>
</tr>
</tbody>
</table>

Note: Line number is electronic journal line number.

It begin from 00001 to 05000, and is reset by “620 command.
(4) Command “600”, flow and error condition management

Electronic journal data down-load from ECR’s memory

Start

PC

Command 6xx

Time out

500msec

ECR

ACK

NAK

Three retry

Three retry

ENQ block

time out

1sec

EJ data

NAK

500retry

ERROR

END

In case of block without
The “EM” character

ERROR

incase of block with
The “EM” character

NAK

ACK

timeout

500msec

EOT

EOT
1. Normal Operation

<table>
<thead>
<tr>
<th>Line number</th>
<th>Clerk 01</th>
<th>Dep 06</th>
<th>Dep 08</th>
<th>Dep 06</th>
<th>5Q</th>
<th>805/</th>
<th>Dep 06</th>
<th>Dep 08</th>
<th>Dep 06</th>
<th>5Q</th>
<th>805/</th>
<th>Dep 06</th>
<th>Dep 08</th>
<th>Dep 06</th>
<th>5Q</th>
<th>805/</th>
<th>...</th>
<th>Sub total</th>
<th>TOTAL</th>
<th>Cash</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td></td>
<td>1.50</td>
<td>4.00</td>
<td>4.50</td>
<td></td>
<td></td>
<td>0.05</td>
<td>0.05</td>
<td>0.60</td>
<td></td>
<td></td>
<td>19.55</td>
<td>19.55</td>
<td>19.55</td>
<td></td>
<td></td>
<td></td>
<td>19.55</td>
<td>19.55</td>
<td>19.55</td>
</tr>
<tr>
<td>5</td>
<td>dep06</td>
<td></td>
<td></td>
<td></td>
<td>80</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.80</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>80</td>
<td>dep08</td>
<td></td>
<td></td>
<td></td>
<td>450</td>
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<tr>
<td>450</td>
<td>dep06</td>
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<tr>
<td>805</td>
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<td>5Q</td>
<td>805/</td>
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<tr>
<td>780</td>
<td>dep06</td>
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<tr>
<td>890</td>
<td>dep05</td>
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<tr>
<td>60</td>
<td>dep07</td>
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<td></td>
</tr>
<tr>
<td>ST</td>
<td>Cash</td>
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</tr>
</tbody>
</table>

2. Daily full terminal report

<table>
<thead>
<tr>
<th>Daily auto X report</th>
<th>Net sales 14,310.44</th>
<th>NRGT 14,310.44</th>
<th>Rtrn.Mdse 804.50</th>
<th>Z-No 0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clerk 01 X #0001</td>
<td>Daily dep x report</td>
<td>Clerk 01 X #0001</td>
<td>Daily dep x report</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Daily clerk X report</td>
<td>Clerk 01 108</td>
<td>14,310.44</td>
<td>06/01/04 13-55 0073</td>
</tr>
</tbody>
</table>

In this case the report title and date line are saved into EJ memory.
15.7 HELP FUNCTIONS

By the "Help Info" key, on G·356 some functions of aid can be activated in order to become simplify the ECR's using from the staff.

15.7.1 HELP CODES OF ERROR OF THE ECR

1. With the key in "Reg." position and without receipts in course by pressing the "Help Info" key, the ECR will start the printing of a receipt containing the list of all the available error codes with near a short description of the meaning of the same code.

2. At the "error" condition on ECR's display will be evidenced a numeric error code (Eg.: E180), before to remove the error condition by the pression of the "CL" key, to press the "Help Info" key, G·356 will print in the ECR's journal the error description necessary to understand the error reason (Eg.: Receipt limits). It's obvious that these functions of Help are surely important in case of G·356 because the numeric display installed on the ECR cannot show the error description that instead can be printed on ECR's journal by "Help/Info" key.
15.7.2 HELP CODES READINGS

1  In "X" or "Z" mode, to input "9999" and to press the "Help Info" key, the ECR will start the printing of one receipt containing the list of all the report’s codes available with near one short description of the same report.

15.7.3 HELP information

1  In "P" mode, to input "9999" and to press the "Help Info" key, the ECR will start the printing of one receipt containing the list of all the programming codes available with near one short description of the same programming codes.

The Messages of Error and State are evidenced on display through numerical codes. The meaning of the messages showed by the display is the following, the Error meaning can also be printed by "I"/help" key pression during Error message :

15.8 training mode

It is prepared for operator training. In this mode, all registration does not affect to transaction memory.

It's possible to activate an instruction mode that allows to operate on the ECR without that no totalizers and counters comes be modified by the configuration of the S.S.3G, also the eventual external device to which the ECR can be connected is in condition to recognizing such operating mode.

Such operativity must obviously submit to some rules to be activated.

The first one and the more important of such ties is that the ECR allows the training operating mode only like first operation after the execution of one Daily full terminal report (Z--1--Tot.1) ; therefore if after the Daily full terminal report” (Z--1--Tot.1) is executed on the ECR an operation that is not that one to go in training mode (even if programming or not selling receipt printing, Eg.: P/O or R/A operations), the ECR will not allow (until the next Daily full terminal report execution) to activate the training operating mode signaling the error E174 - Inhibit Training.

It's important to hold in consideration also that after the Daily full terminal report it will be possible to go in training mode for one time only.

Another important tie is that determines the format of the receipts printed in this modality, than for obvious reasons cannot to be confused with normal receipts printed from the ECR (sees example).

Sample receipt

<table>
<thead>
<tr>
<th>Clerk 01*****R #0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>*******************</td>
</tr>
<tr>
<td>Dep 07********1.500</td>
</tr>
<tr>
<td>Dep<em>07</em>******2.500</td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td>Subtotal********4.000</td>
</tr>
<tr>
<td>TOTAL********4.000</td>
</tr>
<tr>
<td>Cash**********4.000</td>
</tr>
<tr>
<td>09/04/04 11-38 0174</td>
</tr>
</tbody>
</table>

caution

In order to this function, the new system status is required.

S.S.3G

0= training mode is prohibited
1= training mode is allowed.

S.S.2D

0=transaction data is not sent to PC during training mode.
1=Transaction data is sent to PC during training mode.

When it was changed between training modes to other modes,
A training mode must be finished