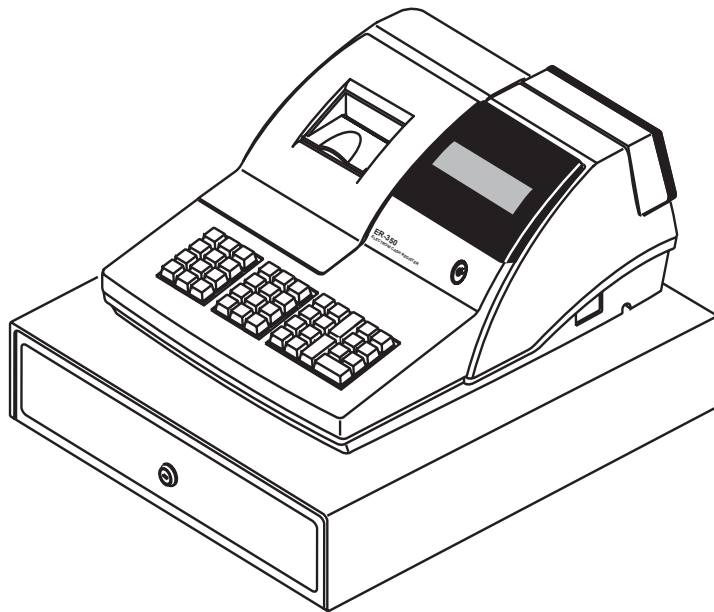# ER-350

ELECTRONIC   CASH   REGISTER

OPERATOR'S   AND

PROGRAMMING MANUAL

All specifications are subject to change without notice.

<< CONSTURCTION >>

TABLE OF CONTENTS

INTRODUCTION

   This Electronic Cash Register is designed for general retail applications requiring efficient management control and simplicity of operation.

   The socket-outlet shall be installed near the equipment and shall be easily accessible

   How to use this manual :

This manual is divided into eight sections -

   1. **INITIAL SET-UP INSTRUCTION**
      - which guides the user through the initializing of this model,
        changing the paper and ribbon cartridge.

   2. **BASIC FEATURES AND FUNCTIONS**
      - which shows keyboard layout,   function key descriptions, control lock,
        display, symbol indicators, error messages and battery system.

   3. **PROGRAMMING**
      - which lists programming options for Departments, PLUs, Function keys,
        and system options.
        This section is recommended for use by store owners and managers,
        since programming can be somewhat complicated.

   4. **OPERATIONS**
   5. **VOID OPERATIONS**
      - which guides the user through the basic operation of the ER-350.
         The use of the function keys are included in this section.

   6. **REPORTS**
      - which lists financial reports, time report, PLU report, Clerk report,
        Cash-in-drawer report, and Check-in-drawer report.

   7. **SYSTEM BALANCING**
      - which gathers Department sales total, Net total, Gross total and Grand total.

   8. **SPECIFICATION**
      - which lists the specification of ECR.

1. INITIAL SET-UP INSTRUCTION

The following instructions describe how to unpack and start up the cash register.

1-1. UNPACK THE CASH REGISTER

1-1-1. Unpack and unwrap cash register.
1-1-2. Locate in the packing the following items.
· 1 roll of paper
· 1 ribbon cartridge
· 1 rewind spindle
· 1 set of control keys
1-1-3. Remove cardboard protectors from the cash drawer.

1-2. CLEAR RANDOM ACCESS MEMORY(RAM) & INITIALIZE CASH REGISTER

1-2-1. Unplug the register.
1-2-2. Turn the control lock to <u>MC</u> position with control key.
1-2-3. Connect the AC plug into a power outlet while pressing
the +% , VD , TAX keys.
1-2-4. When RAM is cleared of all memory, the register prints a line.
" # INITIAL RAM ALL CLEAR # "

NOTE!!. Do this once only. Don't clear the RAM after the machine has been set up.
To do so would cause all programs and totals to be lost.

1-3. INSTALL PAPER IN THE PRINTER

1-3-1. Remove the printer cover and cut or tear the end of
the paper roll evenly for the straight, even edge,
for proper feeding through the print head.
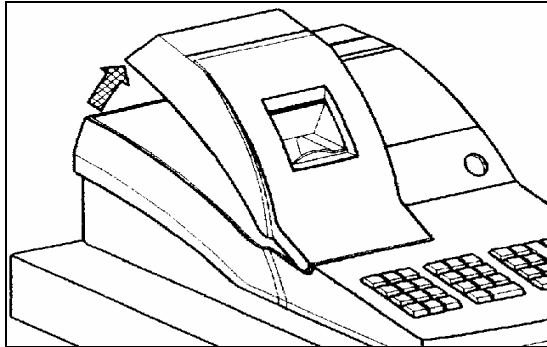
1-3-2. Place paper roll in the paper holder so that paper
will feed from the bottom of the roll.
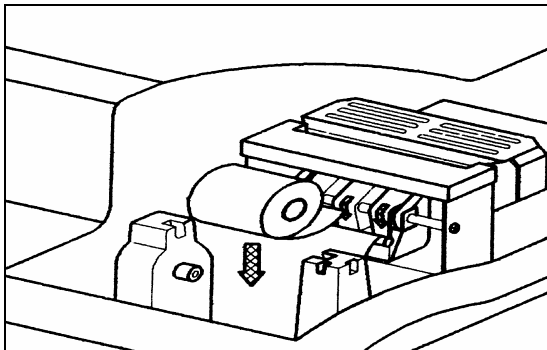
1-3-3. Insert the end of the paper into the paper slot through
the paper sensor.
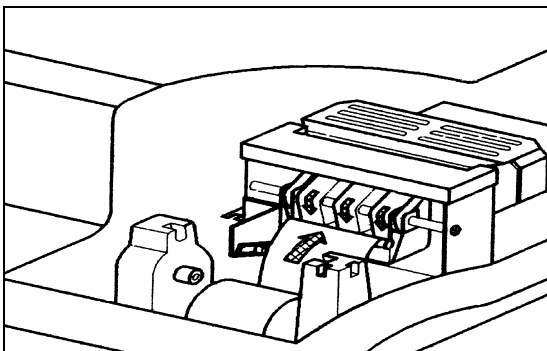
1-3-4. Depress the FEED key until the paper comes out about 20 cm from
       the printer, and if the "E8" error message is displayed,
       press the CLEAR key.
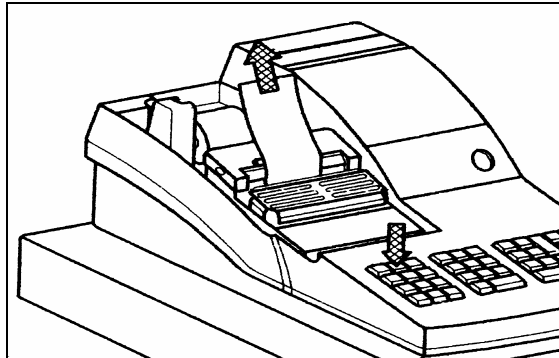
1-3-5. For journal use: Insert the leading end of the paper into the paper
       take-up spool, wind the paper two or three turns around the spool
       shaft and install the spool in the mount.
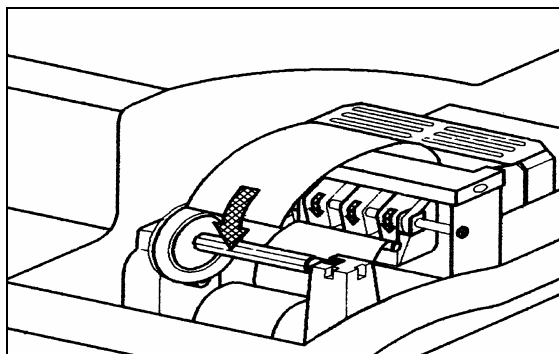
1-3-6. For ticket use: Pass the outside plain tape through the window of the
       printer cover and Replace the printer cover.
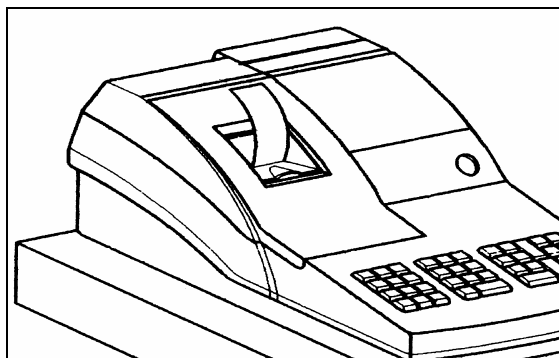
1-4. CHANGING RIBBON

1-4-1. Remove the printer cover.

1-4-2. Lift up ribbon cartridge.

1-4-3. Insert the new ink ribbon cartridge and press firmly into place.

1-4-4. Replace the printer cover.
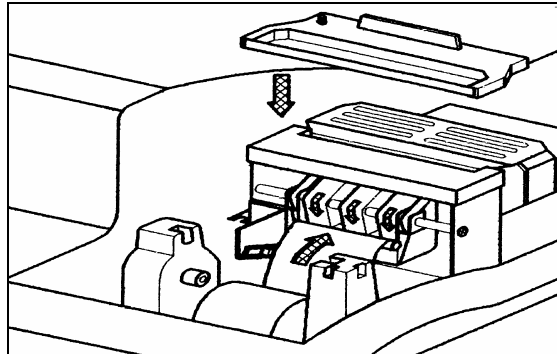
2. BASIC FEATURES AND FUNCTIONS

2-1. KEYBOARD LAYOUT

FEED	#/NS	X/TM
–	+%	−%
CANCEL	RF	VD
C/CONV.	TAX	CLEAR

7	8	9
4	5	6
1	2	3
0	00	.

4	8	PLU	CLERK	RA
3	7		ADD CHECK	PO
2	6	SUB TOTAL	CHECK	CHARGE
1	5		CASH/TEND	

FUNCTION KEY   NUMERIC KEY   DEPARTMENT, PLU, FUNCTION AND
TENDER KEY

2-2. FUNCTION KEY DESCRIPTIONS

FEED   - Used to advance printer paper.
                You can select feeding line between 1 and 4.

00,0-9   - For all numeric entries in REG, X, Z, VOID, and PGM mode.

CLEAR   - CLEAR key is used to clear errors made on keyboard prior to pressing
                the registration key. Also used to stop the error alarm when
                incorrect entries are made.

DPT(1-8)   - These DEPARTMENT keys input possible in VOID, REG, and PGM mode.
                Used to enter the classified commodities.
                Unit price, HDLO, single item, TAX status can program on each
                department in PGM mode.

#/NS   - #/NO SALE key inputs possible in PGM and REG mode.
                Used to print the reference number and open the cash drawer in REG
                mode.
                Used to set up the machine number in PGM mode.

X/TM   - X/TIME key is used to set up the time in PGM mode.

                   Used for multiplication of items entries in REG and VOID mode.

                   Used to read the TIME report in X mode.

                   Used to read and reset the TIME report in Z mode.

                   Used to program the descriptor (department, PLU, customer)

                   in Z mode.

VD   - VOID key is used for item void operation in REG and VOID mode.

RF   - RETURN MERCHANDISE key is used for refund operation in REG mode.

                   Used to set up the decimal and tax information in PGM mode.

-               - MINUS key is used to register a negative amount in REG and VOID

                   mode.

                   Used to set up the TAX calculation status in PGM mode.

-% , +%   - PERCENT key is used to subtract or surcharge a percentage

                   from an item, or the subtotal in REG and VOID mode.

                   Used to set up the percent rate and TAX calculation status

                   in PGM mode.

PLU   - Used to register a Price Look Up(PLU) in REG and VOID mode.

                   Used to read the PLU report in X mode.

                   Used to read and reset the PLU report in Z mode.

                   Used to program the PLU in PGM mode.

RA   - RECEIVED ON ACCOUNT key is used for received on account operation

                   outside of a sale in REG and VOID mode.

                   Used to set up system option with PAID OUT key in PGM mode.

PO   - PAID OUT key is used for paid out operation outside of sale

                   in REG and VOID mode.

                   Used to set up function of the receipt buffer in REG and VOID mode.

                   Used to set up system option with RECEIVED ON ACCOUNT key

                   in PGM mode.

TAX   - Used for external straight tax calculation in REG and VOID mode.

                   Used to set up the tax rate in PGM mode.

·   - DECIMAL key is used for numeric entries in REG, VOID, and PGM mode.

SUBTOTAL — - Used to obtain the subtotal of a sale in REG and VOID mode.

Used for the Cash-In-Drawer Declaration in X mode.

Used to set up the date and program the open department in PGM mode.

CHARGE — - CHARGE key is used to finalize the transaction in charge sale

in REG and VOID mode.

Used to read the P-T-D report in X mode.

Used to read and reset the P-T-D report in Z mode.

CHECK — - Used to finalize the transaction in check sales in REG and VOID

mode.

Used to convert check into cash in REG mode.

Used to program description (department, PLU, customer) in Z mode.

Used to set up the date sequence in PGM mode.

CASH/TEND — - Used to finalize cash sales in REG and VOID mode.

Used to calculate the change in REG and VOID mode.

Used to read the Daily financial report in X mode.

Used to read and reset Daily financial report in Z mode.

Used to read the programming report in PGM mode.

CLERK — - The register will operate without any clerk signing on operation

in default status. However, all entries made on the register

will report to one of the 4 clerk totals.

Used to sign on and sign off in REG and VOID mode.

Used to set up clerk's secret code in PGM mode.

Used to read the Clerk Report in X mode.

Used to read and reset Clerk Report in Z mode.

ADD
CHECK — - Used to issue the receipt of each person in REG and VOID mode.

C/CONV. — - Used to convert foreign currency into home amount in REG and VOID

mode.

Used to set up the exchange rate in PGM mode.

CANCEL — - Used to cancel transactions in REG and VOID mode.

2-3. CONTROL LOCK

The Keylock has 7 positions.
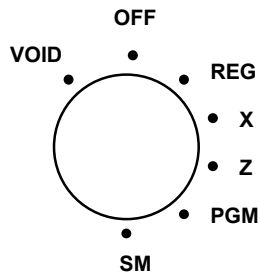
Key locks are :

      2-3-1.   'VOID'   - Used for void operations outside of a sale.

      2-3-2.   'OFF'   - The system is inoperable.

      2-3-3.   'REG'   - Used for normal operations.

      2-3-4.   'X'   - Used to read the reports.

      2-3-5.   'Z'   - Used to read the reports and reset totals to zero.

      2-3-6.   'PGM'   - Used for all register programming and to read

                            the programming report.

      2-3-7.   'MC'   - Used for manager control operations.

NOTE !! All keys are removable in the OFF position or REG positions.

2-4. KEYS

The Keylock has 7 positions, accessed with 5 keys. Each ECR is shipped with two full sets of keys.

      2-4-1.   'REG'   - travels from 'OFF' to 'REG'.

      2-4-2.   'VOID'   - travels from 'VOID' to 'X'.

      2-4-3.   'Z'   - travels from 'VOID' to 'Z'.

      2-4-4.   'P'   - travels from 'VOID' to 'PGM'.

      2-4-5.   'C'   - travels from 'VOID' to 'MC'.

2-5. DISPLAY

```
DPT    RPT                    A M O U N T
```



```
                              1      2      3      4
```

CLERK No.

D P T : Indicates the Department number of the last item entered.
R P T : Indicates the number of times an item has been repeated or multiplied.
AMOUNT : Shows the amount of the item entered, and the sales total.
CLERK : Shows the current Clerk.

2-6. SYMBOL INDICATORS

* SYMBOL INDICATORS (1st digit)

CHANGE   ERROR   NEGATIVE   TOTAL

2-7. ERROR MESSAGES

E0 : MEMORY FULL
- This message indicates that the Z report should be taken immediately
  because sold data is too big.
  Depress the SUBTOTAL key in Z mode.

E1 : KEY INPUT ERROR
- This message indicates an error condition.
  Press the CLEAR key to clear this error condition.

E7 : DISCONNECTION OF DISPLAY
- Please turn the power off and fix the display connector,
  turn the power on again.

E8 : PAPER-END SENSING
- Please remove the printer cover and replace the detail paper.
  And depress the CLEAR key to print continually.

E9 : DISCONNECTION OF PRINTER, PAPER JAM
- Please turn the power off and fix the printer connector,
  turn the power on again.
- Please turn the power off and remove the paper in the printer,
  turn the power on again.

2-8. BATTERY SYSTEM

This model is equipped with a battery system that provides back up power to
the register memory if the power cord is accidentally disconnected or if a power
interruption occurs.
The register program, the transaction totals, and the grand total will be retained
in the machine because of the memory protection feature. The average span of life
is approximately 60 days after a power interruption.
These batteries recharge automatically when the machine is plugged in.

3. PROGRAMMING

Setting up features before use.
When you finish with this program, make it a rule to depress the CASH/TEND
key.

TURN CONTROL LOCK POSITION TO PGM MODE.

3-1. SYSTEM OPTION

System option is provided for your selections of this model's functions
according to the your requirements.
It is provided for 19 varieties and its default status is mostly zero.
You can set it up according to your preference with the RA key and
the PO key.
System option has its own number between 1 and 19.
See the example below:

```
       n1   n2   RA    n3   PO
        └──┘             └ Status
    System option No.
```

NOTE !! Refer to STATUS TABLE about status.

Example. Now, let's set up system option.
         Set up allowing Post tender, Check cashing and Post finalization receipt.

| 1 | 5 | RA | 1 | PO |

OPTION15	1
OPTION16	1
OPTION17	1
OPTION19	1

| 1 | 6 | RA | 1 | PO |

| 1 | 7 | RA | 1 | PO |

| 1 | 9 | RA | 1 | PO |

STATUS TABLE

No.	S Y S T E M O P T I O N	STATUS
1	Print GRAND TOTAL in X,Z report.	YES = 0
		NO = 1
2	Print GROSS TOTAL in X,Z report.	YES = 0
		NO = 1
3	Select printing DATE & TIME on all report.	
	- Print DATE & TIME all.	0
	- Print only DATE.	1
	- Print only TIME.	2
	- Not print DATE & TIME all.	3
4	Reset CONSECUTIVE NUMBER after Z report.	YES = 0
		NO = 1
5	Reset COUNTER after Z report.	YES = 0
		NO = 1
6	ZERO SKIP on X,Z report	YES = 0
		NO = 1
7	Reset GRAND TOTAL after Z report	YES = 0
		NO = 1
8	Print SUBTOTAL.	YES = 0
		NO = 1
9	Select DRAWER COMPULSORY.	YES = 0
		NO = 1
10	Select Cash-In-Drawer COMPULSORY.	YES = 0
		NO = 1
11	Select X REPORT ALLOWED.	YES = 0
		NO = 1

No.	S Y S T E M O P T I O N		STATUS
12	Print data of VOID position in report		YES = 0
			NO = 1
13	Select information of TAX		
	- Not print Taxable Total.	- Print separately TAX Amount.	0
		- Print TAX Amount Total.	1
		- Not Print TAX Amount.	2
	- Print Taxable Total.	- Print separately TAX Amount.	3
		- Print TAX Amount Total.	4
		- Not Print TAX Amount.	5
14	Select Rounding		
	- Not perform EUROPEAN Rounding.	- Select Rounding applied Raised / Discarded.	0
		- Select Rounding applied Discarded.	1
		- Select Rounding applied Round up.	2
	- Perform EUROPEAN Rounding.	- Select Rounding applied Raised / Discarded.	3
		- Select Rounding applied Discarded.	4
		- Select Rounding applied Round up	5
15	Allow Post Tender.		YES = 0
			NO = 1
16	Allow Check Cashing.		YES = 0
			NO = 1

No.	S Y S T E M O P T I O N	STATUS
17	Select Information of Clerk	
	- Not allow function of Clerk	0
	- Allow function of Clerk as Stay down mode.	1
	- Allow function of Clerk as Pop up mode.	2
18	Select the number of Feeding line	
	- Select 1 feeding line.	0 or 1
	- Select 2 feeding line.	2
	- Select 3 feeding line.	3
19	Allow function of Post Finalization Receipt.	YES = 0
		NO = 1

☐ => INITIAL STATUS

3-2. DECIMAL POINT & TAX INFORMATION

This programming is for setting up the decimal point and tax information.

Decimal point information comes in four varieties - from 0 to 3

and tax information comes in three varieties - VAT, ADD ON TAX,

EXTERNAL STRAIGHT TAX.

If you want to set up this information, do it as below.

```
    n1      n2        RF
    |        └───────────────────────────── Tax information
Decimal point information - 0 -> 2 Decimal point        0 -> VAT (Value Added Tax)
                           1 -> 0 Decimal point         1 -> ADD ON TAX
                           2 -> 1 Decimal point         2 -> EXTERNAL  STRAIGHT  TAX
                           3 -> 3 Decimal point
```

Example.   2 Decimal point and VAT version

```
    0        0       RF
```

DECIMAL,TAX	00

3-3. TAX RATE

As previously stated this model has three separate tax rates.

These rates are set up and calculated between 0.001% and 99.999%.

Each tax has a number which is classified by item.

```
                              RA ──── Select Tax No.
                    n1                ┌ VAT version -> between 1 and 4
              ·               TAX     │  ADD ON TAX version -> between 1 and 2
n2    n3        n4    n5    n6         └ EXTERNAL STRAIGHT TAX -> only 1
└────────────────────────────┘
    tax rate(0.000%- 99.999%)
```

NOTE !!   Refer to   3-2. DECIMAL POINT & TAX INFORMATION about tax version .

Example.   Tax rate of VAT 1 is 8.000% or tax rate of ADD ON TAX 1 is 8.000%.

```
              1     RA ──── Select Tax 1
```

```
    8    ·    0    0    0    TAX ──── Rate
```

TAX1 RATE	8.000

3-4. PERCENT(%)

Percent(%) key is programmed either positive or negative, as an open or preset amount of percentage.
This is set up and calculated between 0.001% and 99.999%.
The status of Percent key has two options.
One is that tax calculated before percent rate is applied, and the other is that tax calculated after percent rate is applied.

```
                              RA ──── Select Status
                        n1
                         └ 0 -> Tax calculated before percent rate is applied.
                            1 -> Tax calculated after percent rate is applied.


                  .                    ┌ -%
      n2    n3          n4    n5    n6  |
      └─────────────────────┘          └ +%
      Percent rate(0.000%-99.999%)
```
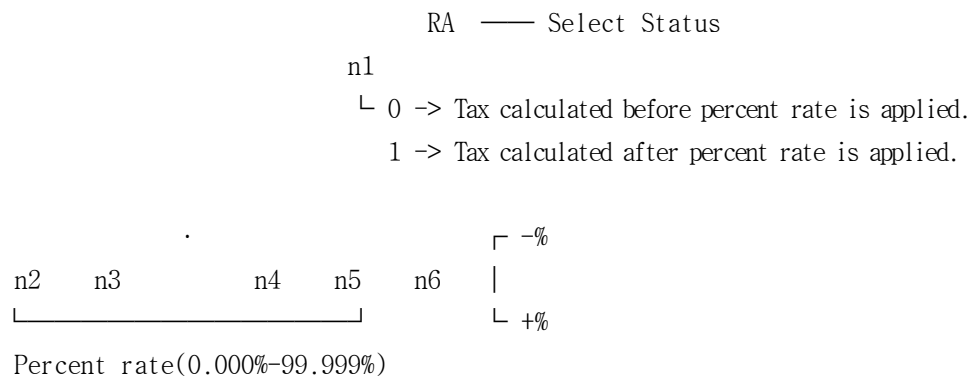
Example.   -% is 10.000% and Tax calculated before percent rate is applied.

```
                        0    RA ──── Select the Status


      1   0  ·  0   0   0   -%         ┌──────────────────────────┐
                                       │ -% RATE          10.000   │
                                       └──────────────────────────┘
```
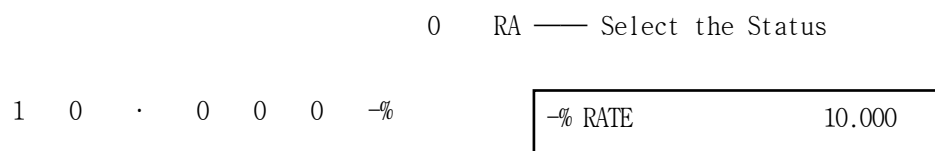
3-5. MINUS(-)

This is for a discount and it can use an open or preset amount of discount.
The status has two varities as the percent key.

```
                  -
          n1
           └ STATUS : 0 -> Tax calculated before discount is applied.
                      1 -> Tax calculated after discount is applied.
```
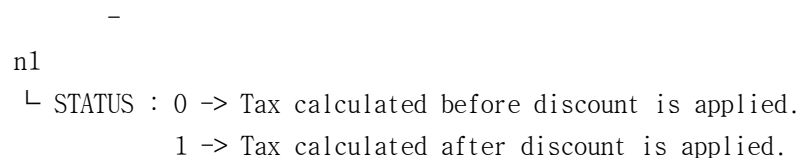
Example. Tax calculated after discount is applied.

```
      1   -                            ┌──────────────────────────┐
                                       │ - STATUS            1     │
                                       └──────────────────────────┘
```

3-6. CURRENCY CONVERSION

    When you receive foreign currency, you can convert it into home amount.
The way is very simple.
You input the exchange rate the home amount is then calculated.
    The exchange rate inputted consists of 6 figures.
The first 5 figures are the exchange rate and the last number is
indicated down to places of decimals(You can not use the · key).
The last number is inputted between 0 and 4.
  It is as follows.


```
                              C/CONV.
      n1   n2   n3   n4   n5   n6
      └─────────────────┘   └ places of decimals
           Exchange rate
```


  Example. Input the exchange rate, 2.4455 .

2	4	4	5	5	4	C/CONV.		

```
┌──────────────────────────────┐
│ CONV. RATE          #2.4455   │
└──────────────────────────────┘
```

3-7. CLERK

    You can use the Clerk function as standard.
Or you can set up the System option to allow.
You to have a secret code for each clerk.
The secret code is made up of 3 figures, which are numbers
between 100 and 999.
Each clerk has his own number between 1 and 4.
To operate 4 clerks.
  Refer to the System option No.17, please.
  Clerk of System option is divided three modes.
One is not setting up the Clerk function, another is setting up clerk function
Stay down mode, and the other is Pop up mode.
Stay down mode is typically used in supermarkets where only one operator
uses the register in a time period.
Pop up mode signs off the operator automatically after each receipt.
This mode is used in restaurants or similar types of stores where servers

one after the other are using the register during the same period.

NOTE !! Refer to 3-1. SYSTEM OPTION about Clerk.

3-7-1. SETTING UP SECRET CODE OF CLERK

The method of setting up secret code numbers for clerks is as follows.

```
CLERK                           CLERK
        n1    n2    n3    n4
        └──────────┘     └ Clerk No.
             Secret code
```

Example. Set up the secret code of clerk1, 123.
         Set up the secret code of clerk2, 222.

```
CLERK   1   2   3   1   CLERK          ┌─────────────────────────┐
                                       │ REGISTERING CLERK A     │
                                       └─────────────────────────┘
CLERK   2   2   2   2   CLERK          ┌─────────────────────────┐
                                       │ REGISTERING CLERK B     │
                                       └─────────────────────────┘
```

3-7-2. CHANGING THE SECRET CLERK CODE

You can change the existing secret code of a clerk.
By inputting the old secret No. followed by the new secret No. of the clerk.

```
CLERK                                               CLERK
       n1    n2    n3    n4    n5    n6    n7    n8
       └──────────┘     |     └──────────┘     |
       Old secret No.   |     New secret No.   |
                        |                      |
                        └    Same clerk No.    ┘
```

Example. Change the secret code of clerk1 123 to 111.

```
CLERK   1   2   3   1   1   1   1   1   CLERK

                                       ┌─────────────────────────┐
                                       │ CHANGING CLERK          │
                                       └─────────────────────────┘
```

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3-7-3. CONFIRM CLERK

   If you want to confirm, do the follows.
 Press the numeric key 9 and then the CLERK key.

        9   CLERK

```
+-----------------------------------+
|        ***  CLERK DATA  ***        |
|                                   |
|                                   |
| CASHIER A              111        |
| CASHIER B              222        |
| CASHIER C              0          |
| CASHIER D              0          |
| 11-05-95              15:34       |
| 000001                 00         |
+-----------------------------------+
```


3-7-4. CANCEL SECRET CODE OF ALL CLERK

    To cancel the secret code of all clerks.
  Press the numeric key 0 and then the CLERK key .

3-8. DEPARTMENT

    This programming consists of two parts.
 One is OPEN DEPARTMENT, and the other is PRESET PRICE DEPARTMENT.
 Each department can be programmed as OPEN or PRESET PRICE.

3-8-1. OPEN DEPARTMENT

   This is consist of HDLO(High Digit Lock Out) and status.
 HDLO means entries above a limit are not allowed.
 How to alter status.
 Status is whether the department is single item or not and what its tax is.

        SUBTOTAL   DEPARTMENT
              n1   n2

 NOTE !! The expression of DEPARTMENT key is alternated with DPT key from now on.

20

n1 : number of HDLO　　　　　　　　　　n2 : number of single item and tax status

NO	L I M I T
0	no HDLO (same as 8)
1	0.01 - 0.09
2	0.01 - 0.99
3	0.01 - 9.99
4	0.01 - 99.99
5	0.01 - 999.99
6	0.01 - 9999.99
7	0.01 - 99999.99
8	0.01 - 999999.99

		NOT SINGLE ITEM		SINGLE ITEM	
TAX	NO	TAXBLE BY...	NO	TAXBLE BY...
V A T	0	Non-taxable	5	Non-taxable
	1	VAT 1	6	VAT 1
	2	VAT 2	7	VAT 2
	3	VAT 3	8	VAT 3
	4	VAT 4	9	VAT 4
ADD ON TAX	0	Non-taxable	3	Non-taxable
	1	TAX 1	4	TAX 1
	2	TAX 2	5	TAX 2
EXT. TAX	0	NOT	1	NOT

NOTE !! Refer to 3-2. DECIMAL POINT AND TAX INFORMATION about tax version.

Example. Department3 : 4 HDLO, Not single item, Non-taxable on VAT

　　　SUBTOTAL   4   0   DPT3

```
DEPT.3                    4
```

　　　Department4 : 5 HDLO, Single item, Taxable by VAT1 on VAT

　　　SUBTOTAL   5   6   DPT4

```
DEPT.4        T1        5
```

NOTE !!! Department4 : 5 HDLO, Single item, Taxable by TAX1 on ADD ON TAX

　　　SUBTOTAL   5   4   DPT4

```
DEPT.4        T1        5
```

　　　Department4 : 5 HDLO, Single item on EXTERNAL STRAIGHT TAX

　　　SUBTOTAL   5   1   DPT4

```
DEPT.4                    5
```

3-8-2. PRESET PRICE DEPARTMENT

　　Preset price department consists of preset price and status.
　Preset price can be programmed up to eight digits.
　Status is equal to open department's.

The sequence of inputting is as follows.

```
                                                    DPT
        n1    n2    n3    n4    n5    n6    n7    n8    n9
        └──────────────────────────────────────┘     └ Status(same as open department)
                    Preset price
```

Example.　Department1 : Price is 10.00, Not single item, Taxable by VAT1
　　　　　　Department2 : Price is 20.00, Not single item, Taxable by VAT2

```
        1    0    0    0    1    DPT1        ┌─────────────────────────────────┐
                                             │ DEPT.1      T1       ·10.00      │
                                             └─────────────────────────────────┘

        2    0    0    0    2    DPT2        ┌─────────────────────────────────┐
                                             │ DEPT.2      T2       ·20.00      │
                                             └─────────────────────────────────┘
```

NOTE!!! Department2 : Price is 20.00, Not single item, Taxable by TAX2 on ADD ON TAX

```
        2    0    0    0    2    DPT2        ┌─────────────────────────────────┐
                                             │ DEPT.2      T2       ·20.00      │
                                             └─────────────────────────────────┘
```

NOTE!!! Department2 : Price is 20.00, Not single item on EXTERNAL STRAIGHT TAX

```
        2    0    0    0    0    DPT2        ┌─────────────────────────────────┐
                                             │ DEPT.2               ·20.00      │
                                             └─────────────────────────────────┘
```

NOTE !! Refer to 3-2. DECIMAL POINT & TAX INFORMATION about tax version.

3-9. PLU (Price Look Up)

　PLU programming is similar to department programming.
Each PLU can be programmed as OPEN or PRESET PRICE.
The difference is that PLU numbers must be between 1 and 300 and that
PLU's are linked to each department.
The PLU numbers are between 1 and 300.

3-9-1. OPEN PLU

```
                        PLU    SUBTOTAL              DPT
        n1    n2    n3                        n4    n5
        └──────────┘                         |     └ Status (same as open department)
        PLU No.(1 - 300)               HDLO(same as open department)
```

Example. PLU25, 4 HDLO, Not single item, Non-taxable, Linked department1

```
              2   5   PLU —— PLU No.
```
```
PLU25
DEPT.1                    4
```
```
     SUBTOTAL   4   0   DPT1 —— Open
                             Department
```
NOTE !! Refer to 3-8-1. OPEN DEPARTMENT about HDLO and status.

3-9-2. PRESET PRICE PLU

```
              PLU                                    DPT
     n1   n2   n3      n4  n5  n6  n7  n8  n9  n10 n11 n12
     └_____┘        └_____┘   └ Status
     PLU No.(1 - 300)            Preset price    (same as open department)
```

Example. PLU12, Price is 2.50, Not single item, Taxable by VAT1, Linked department1

```
            1   2   PLU —— PLU No.
```
```
PLU12
DEPT.1      T1      @2.50
```
```
     2   5   0   1   DPT1 —— Preset price
                           Department
```
NOTE !! Refer to 3-8-1. OPEN DEPARTMENT about status information.
*   PLU can be re-programmed only after a PLU Z report has been issued.*

3-10. DATE SEQUENCE

   Date sequence is in three forms.
  One is Day-Month-Year, another is Year-Month-Day, and the other is
  Month-Day-Year.
  You can choose a date sequence suitable for you.

```
        CHECK
      n1
      └ 0 -> Day - Month - Year
        1 -> Year - Month - Day
        2 -> Month - Day - Year
```


Example. Date sequence is Day - Month - Year.

```
      0   CHECK
```
```
DATE SEQ.              0
```

3-11. DATE

   This is related to date sequence.
  You have to program according to following date sequence.

<div align="center">SUBTOTAL</div>

     n1   n2   n3   n4   n5   n6

__NOTE !! Day is allowed 1 to 31, month is allowed 1 to 12, year is consist of a number of two figures.__
__Refer to 3-10. DATE SEQUENCE.__

Example. To set May 11,1995

    1   1   0   5   9   5   SUBTOTAL | 11-05-95 |
      Day - Month - Year

    9   5   0   5   1   1   SUBTOTAL | 95-05-11 |
      Year - Month - Day

    0   5   1   1   9   5   SUBTOTAL | 05-11-95 |
      Month - Day - Year

3-12. TIME

   Enter the hour and minutes using the 24 hour clock and press the X/TM key.

<div align="center">X/TM</div>

    n1 n2   n3 n4
    └────┘ └────┘

     Hour   Minute

  Example. Current time is 3:25 p.m.

    1   5   2   5   X/TM | 15:25 |

3-13. REGISTER NUMBER

   You can set up a register number that is consist of
the number of 2 figures.

```
                   #/NS
        n1    n2
```

Example. Set up this register number as 30.

```
        3    0    #/NS
```

MACHINE NO.	30

NOTE !! After depressing the CASH/TEND key, you can finish setting up function in PGM mode.

3-14. CUSTOMER LOGO & DESCRIPTIONS

   You can program customer logo, description of department and PLU in Z mode.
These consist of code numbers.

NOTE !! Refer to code table about codes.(page 27)

* Turn to control position Z.

3-14-1. CUSTOMER LOGO

   customer logo consists of 5 lines and each line is programmed
  up to 26 characters.
  Each line is divided in to numbers.

```
                   X/TM            ....      CHECK
        n1    n2         n3   n4         nx
        └──┘              └──────────────┘

        Line No.              Codes
      1st line -> 11
      2nd line -> 12
      3rd line -> 13
      4th line -> 14
      5th line -> 15
```

Example. Set up "THANK YOU" in 1st line of customer logo.

        1 1 X/TM ── Line No.

        5 4 4 8 4 1 4 DPT5 4 DPT2

        2 0 5 9 4 DPT6 5 5 CHECK ── Input codes.

```
┌─────────────────────────────────┐
│ THANK YOU                        │
└─────────────────────────────────┘
```

  3-14-2. DESCRIPTION OF DEPARTMENT

     The description is limited 12 characters.
   Each department has a unique number between 21 and 28.

```
                    X/TM            ....        CHECK
          n1   n2           n3   n4           nx
          └──┘             └──────────────┘
        Department No.          Codes
        DPT1 -> 21
            :
        DPT8 -> 28
```

Example. Let's make description of department1 "BEER".

        2 1 X/TM 4 2 4 5 4 5 5 2 CHECK

```
┌─────────────────────────────────┐
│ BEER                    DEPT.1   │
└─────────────────────────────────┘
```

NOTE !! Refer to CODE TABLE about codes.(page 27)

  3-14-3. DESCRIPTION OF PLU

     This is also limited to 12 characters and used PLU's own number.

```
                    PLU  X/TM              ......        CHECK
          n1   n2   n3              n4    n5           nx
          └──────────┘             └──────────────────┘
           PLU No.                        Codes
```

Example. Let's make description of PLU 20, "COKE".

        2 0 PLU X/TM   4 3 4 DPT6 4 DPT2 4 5 CHECK

```
┌─────────────────────────────────┐
│ COKE                    PLU20    │
└─────────────────────────────────┘
```

C O D E   T A B L E

CHRACTER
C O D E

DOUBLE	SPACE	!	"	#	$	%	&	'	(	)
11	20	21	22	23	24	25	26	27	28	29
*	+	,	-	.	/	0	1	2	3	4
2 DPT1	2 DPT2	2 DPT3	2 DPT4	2 DPT5	2 DPT6	30	31	32	33	34
5	6	7	8	9	:	;	<	=	>	?
35	36	37	38	39	3 DPT1	3 DPT2	3 DPT3	3 DPT4	3 DPT5	3 DPT6
@	A	B	C	D	E	F	G	H	I	J
40	41	42	43	44	45	46	47	48	49	4 DPT1
K	L	M	N	O	P	Q	R	S	T	U
4 DPT2	4 DPT3	4 DPT4	4 DPT5	4 DPT6	50	51	52	53	54	55
V	W	X	Y	Z	[	\	]	^	_	.
56	57	58	59	5 DPT1	5 DPT2	5 DPT3	5 DPT4	5 DPT5	5 DPT6	60
a	b	c	d	e	f	g	h	i	j	k
61	62	63	64	65	66	67	68	69	6 DPT1	6 DPT2
l	m	n	o	p	q	r	s	t	u	v
6 DPT3	6 DPT4	6 DPT5	6 DPT6	70	71	72	73	74	75	76
w	x	y	z	{	|	}	~	\	ü	é
77	78	79	7 DPT1	7 DPT2	7 DPT3	7 DPT4	7 DPT5	7 DPT6	80	81
_	Ç	á	Í	_	ä	_	Ñ	Ä	É	ö
82	83	84	85	86	87	88	89	8 DPT1	8 DPT2	8 DPT3
_	Ú	í								
8 DPT4	8 DPT5	8 DPT6								

NOTE !! After depressing the CASH/TEND key, you can finish the logo description.

3-15. RECEIPT/JOURNAL

    The default state of this program is the RECEIPT status.
This means that the receipt is issued with stamp.
If you select the JOURNAL status, the stamp is not operational.
It works by toggle with the PO key in X mode.
  See the follows.

         9   9   9   9   PO

3-16. READ THE PROGRAMMING REPORT

    You can confirm what you have set up to now.
By pressing the CASH/TEND key without any other key in PGM mode.

* TURN CONTROL LOCK POSITION TO PGM MODE.

Now, you are ready to operate the register.

PROGRAMMING CONTENTS

THANK YOU		- STAMP
<< PROGRAM SCAN >>		- TITLE
DEPT.1	81	- DEPT NO., HDLO, SINGLE ITEM and VAT STATUS
BEER	10.00	- DESCRIPTION, UNIT PRICE
DEPT.2	82	
	20.00	
DEPT.3	40	
	0.00	
DEPT.4	56	
	0.00	
DEPT.5	80	
	0.00	
DEPT.6	80	
	0.00	
DEPT.7	80	
	0.00	
DEPT.8	80	
	0.00	
TAX1 RATE	8.000	- TAX RATE
TAX2 RATE	0.000	
TAX3 RATE	0.000	
TAX4 RATE	0.000	
-% STATUS	0	- -% TAX CALCULATION STATUS
-% RATE	10.000	- -% RATE
+% STATUS	0	- +% TAX CALCULATION STATUS
+% RATE	0.000	- +% RATE
- STATUS	1	- (-) TAX CALCULATION STATUS
CHANGE RATE	#2.4455	- EXCHANGE RATE
DECIMAL,TAX	00	- DECIMAL POINT & TAX INFORMATION
DATE SEQ.	0	- DATE SEQUENCE

OPTION1		0	- SYSTEM OPTION
OPTION2		0	
OPTION3		0	
OPTION4		0	
OPTION5		0	
OPTION6		0	
OPTION7		0	
OPTION8		0	
OPTION9		0	
OPTION10		0	
OPTION11		0	
OPTION12		0	
OPTION13		0	
OPTION14		0	
OPTION15		1	
OPTION16		1	
OPTION17		1	
OPTION18		0	
OPTION19		1	
PLU12	81	DEPT.1	- PLU NO., HDLO, TAX/SINGLE ITEM, LINKED DEPT NO.
T1		· 2.50	- LINKED TAX, PRESET PRICE
PLU25	40	DEPT.1	
		· 0.00	
11-05-95		15:26	- DATE, TIME
000004		30	- RECEIPT NO., MACHINE NO.0

4. OPERATIONS

Now, you can operate this model.
This part explains how to operate the cash register.
The tender keys are CASH/TEND , CHECK , CHARG , ADD CHECK key.
When the Clerk of System option is set up, operate the Clerk function
first before using other functions in REG mode .

 * TURN CONTROL LOCK POSITION TO REG MODE.

NOTE !! Following examples are based on VAT system.

4-1. CLERK

You have to program the System option about Clerk and set up the
secret code of the Clerk before operating the Clerk function.
The system option has three types.
One is used without the Clerk function, another is the Stay down mode,
and the other is the Pop up mode.
You have to operate according to how the System option was programmed.
Two ways of operation are be available

- Stay down operation
- Pop up operation

Stay down operation requires a manual sign off.
This mode is typically used in Supermarkets where only one operator uses
the register in a time period.
Pop up operation signs off the operator automatically after each receipt.
Therefore you have to sign on the operator before operating this model.
This mode is used in restaurants or similar types of stores where servers
one after the other are using the register during the same period.

NOTE !! Refer to 3-1. SYSTEM OPTION and 3-6. CLERK.

4-1-1. CLERK SIGN ON

   If the System option about Clerk is set up, operate as follows:
 Then the head of display is showed the decimal point.

                           CLERK
       n1   n2   n3   n4
       └─────────┘   └ Clerk No.
       Secret code

Example. The Secret code of Clerk 1 is 111.
         You operate Clerk 1 in Stay down mode.

       1   1   1   1   CLERK

CLERK A ON	15:26
11-05-95	15:26
000005 CLERK A	30

4-1-2. CLERK SIGN OFF

   When you sign off current Clerk, depress the 0 key and the CLERK key
 in order. Then the end of display is not showed the underscore bar.

4-2. DEPARTMENT

This operation is when you enter a sales item using the department key.
Watch the display when you are operating this key.
Two digits of the display indicate department No. and items.

4-2-1. OPEN DEPARTMENT

You will Probably have programmed the department before using
this model.
Do you remember the word, "HDLO(High Digit Lock Out)"?
HDLO is means that entries above a limit are not allowed.
If you set up HDLO of department, it is set up default status - 8.
Let's operate the follows.

```
                 ......        DPT
        n1   n2            nx
        └───────────────┘
                Price
```
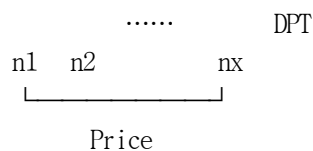
Example. Sale price 1.00 of the department1, price 2.00 of the department2,
price 3.00 of the department3.

```
        1    0    0    DPT1

        2    0    0    DPT2

        3    0    0    DPT3

                       CASH/TEND
```

```
┌─────────────────────────────┐
│ THANK YOU                    │
│                              │
│                              │
│ BEER         T1      ·1.00   │
│ DEPT.2       T2      ·2.00   │
│ DEPT.3               ·3.00   │
│ CASH                 ·6.00   │
│ TAX1 8.000%          ·0.07   │
│ 11-05-95            15:27    │
│ 000006 CLERK A          30   │
└─────────────────────────────┘
```

4-2-2. PRESET PRICE DEPARTMENT

You have programmed preset price of department before.
You can operate the department without numeric key because of
presetting of the department key.
See as follows.

```
        DPT2        —— Preset Department
                                                  ┌─────────────────────────────┐
                                                  │ THANK YOU                   │
        CASH/TEND —— Tender                       │                             │
                                                  │                             │
                                                  │ DEPT.2      T2      ·20.00   │
                                                  │ CASH                ·20.00   │
                                                  │ 11-05-95           15:27    │
                                                  │ 000007 CLERK A        30    │
                                                  └─────────────────────────────┘
```

4-2-3. DEPARTMENT REPEAT ENTRY

   This is applied to either open or preset price department.
Depress again the department key used for the item just entered
and repeat as many times as required.
This also applies to PLU.

```
        4    0    0    DPT2    DPT2 —— Overriding department

                       DPT1    DPT1 —— Preset price department

                       CASH/TEND —— Tender
                                                  ┌─────────────────────────────┐
                                                  │ THANK YOU                   │
                                                  │                             │
                                                  │                             │
                                                  │ DEPT.2      T2       ·4.00   │
                                                  │ DEPT.2      T2       ·4.00   │
                                                  │ BEER        T1      ·10.00   │
                                                  │ BEER        T1      ·10.00   │
                                                  │ CASH                ·28.00   │
                                                  │ TAX1 8.000%          ·1.48   │
                                                  │ 11-05-95           15:27    │
                                                  │ 000008 CLERK A        30    │
                                                  │                             │
                                                  └─────────────────────────────┘
```

4-2-4. DEPARTMENT MULTIPLICATION

   When more than three items are to be entered with the same Department
and price, the Multiplication is quicker than the Repeat Entry.
Quantity is consists of the number of 4 figures(1 to 9999)
with the X/TM key.
This is also applied to PLU.
   It is as follows.

```
    2   X/TM        ———— Quantity

5   0   0   DPT1       ———— In case of Open Department

    3   X/TM        ———— Quantity

        DPT2        ———— In case of Preset Price Department

        CASH/TEND  ———— Tender
```

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│ 2 X                 @5.00   │
│ BEER        T1    ·10.00    │
│ 3 X                @20.00   │
│ DEPT.2      T2    ·60.00    │
│ CASH              ·70.00    │
│ TAX1 8.000%        ·0.74    │
│ 11-05-95           15:27    │
│ 000009 CLERK A        30    │
└─────────────────────────────┘
```

4-2-5. DEPARTMENT MULTIPLICATION WITH DECIMAL POINT

```
    1   ·   2   X/TM    —— Multiple Department with decimal point

    1   0   0   DPT5    —— Sale Department item

        CASH/TEND  —— Tender
```

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│ 1.200 X            @1.00    │
│ DEPT.5            ·1.20      │
│ CASH              ·1.20      │
│ 11-05-95           15:27    │
│ 000010 CLERK A        30    │
└─────────────────────────────┘
```

4-2-6. SPLIT PRICING

```
      2    X/TM     —— Sale item

      3    X/TM     —— Set item

1  0  0   DPT6      —— Sale item

          CASH/TEND —— Tender
```

```
┌─────────────────────────────────┐
│ THANK YOU                       │
│                                 │
│ 2/3 X                  @1.00    │
│ DEPT.6                 ·0.67    │
│ CASH                   ·0.67    │
│ 11-05-95              15:27     │
│ 000011 CLERK A           30     │
└─────────────────────────────────┘
```

4-2-7. SINGLE ITEM DEPARTMENT

For example if Department 4 is programmed as a single item, Department 4 will be
not operate as a single sale if another department has already been used.
And this is applies to open or preset price departments.

```
4  0  0  0   DPT4
```

```
┌─────────────────────────────────┐
│ THANK YOU                       │
│                                 │
│ DEPT.4     T1         ·40.00    │
│ CASH                  ·40.00    │
│ TAX1 8.000%            ·2.96    │
│ 11-05-95              15:28     │
│ 000012 CLERK A           30     │
└─────────────────────────────────┘
```

4-3. PLU (Price Look Up)

This operation is similar to Department.
Only difference is that PLU is programmed before.

4-3-1. OPEN PLU

```
      2  5   PLU      —— PLU No.

   5  0  0   PLU      —— Price

          CASH/TEND —— Tender
```

```
┌─────────────────────────────────┐
│ THANK YOU                       │
│                                 │
│ PLU25                  ·5.00    │
│ CASH                   ·5.00    │
│ 11-05-95              15:28     │
│ 000013 CLERK A           30     │
└─────────────────────────────────┘
```

4-3-2. PRESET PRICE PLU

　　　1　2　PLU　　　── PLU No.

　　　　　CASH/TEND ── Tender

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│ PLU12      T1        ·2.50  │
│ CASH                 ·2.50  │
│ TAX1 8.000%          ·0.19  │
│ 11-05-95             15:28  │
│ 000014 CLERK A          30  │
│                             │
└─────────────────────────────┘
```

4-3-3. PLU OVERRIDING

　 Press the RA key before entering the number of the PLU in case of
 overriding of the preset PLU.

　　　　　　　　RA　　　── PLU
　　　　　　　　　　　　　　Overriding
　　　　1　2　PLU　　── Preset PLU

　　7　5　0　PLU　　── Price

　　　　　CASH/TEND ── Tender

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│ PLU12      T1        ·7.50  │
│ CASH                 ·7.50  │
│ TAX1 8.000%          ·0.56  │
│ 11-05-95             15:28  │
│ 000015 CLERK A          30  │
│                             │
└─────────────────────────────┘
```

4-3-4. PLU REPEAT ENTRY

　　　1　2　PLU　　　── PLU No.

　　　　　PLU　　　── PLU repeat entry

　　　CASH/TEND ── Tender

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│ PLU12      T1        ·2.50  │
│ PLU12      T1        ·2.50  │
│ CASH                 ·5.00  │
│ TAX1 8.000%          ·0.37  │
│ 11-05-95             15:28  │
│ 000016 CLERK A          30  │
│                             │
└─────────────────────────────┘
```

4-3-5. PLU MULTIPLICATION

```
        2   X/TM    —— Quantity

    2   5   PLU     ┐
                    │ Open PLU
5   0   0   PLU     ┘

        3   X/TM    —— Quantity

    1   2   PLU     —— Preset PLU

        CASH/TEND   —— Tender
```

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│ 2 X               @5.00     │
│ PLU25            · 10.00    │
│ 3 X               @2.50     │
│ PLU12      T1    · 7.50     │
│ CASH             · 17.50    │
│ TAX1 8.000%       · 0.56    │
│ 11-05-95          15:28     │
│ 000017 CLERK A       30     │
└─────────────────────────────┘
```

4-3-6. PLU MULTIPLICATION WITH DECIMAL POINT

```
1   ·   2   X/TM    —— Quantity

    2   5   PLU     —— PLU No.

2   0   0   PLU     —— Price

        CASH/TEND   —— Tender
```

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│ 1.200 X           @2.00     │
│ PLU25            · 2.40     │
│ CASH             · 2.40     │
│ 11-05-95          15:29     │
│ 000018 CLERK A       30     │
└─────────────────────────────┘
```

4-3-7. SPLIT PRICING

```
    2   X/TM    —— Sale item

    3   X/TM    —— Set item

1   2   PLU     —— PLU

    CASH/TEND   —— Tender
```

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│ 2/3 X             @2.50     │
│ PLU12      T1    · 1.67     │
│ CASH             · 1.67     │
│ TAX1 8.000%       · 0.12    │
│ 11-05-95          15:29     │
│ 000019 CLERK A       30     │
└─────────────────────────────┘
```

4-3-8. SINGLE ITEM

When PLU is set up as single item, operate this function like a Department.

4-4 . PERCENT

These keys are used to add or subtract a percent rate to or from
an individual sale entry item or the entire sale.
Each of the keys can function with a rate manually entered or a preset rate.
To activate the preset rate entry, rate setting is necessary.

4-4-1. PERCENT ON A DEPARTMENT OR PLU ITEM
　　　 FOR THE PRESET RATE

```
            ┌ DPT ┐   ┌ -%
 ......   |       |  |
            └ PLU ┘   └ +%
```

Example. Preset rate Percent discount is 10.000%.

```
      1   0   0   0    DPT1      ── Sale item

                       -%        ── Percent discount on Preset rate

                 CASH/TEND ── Tender
```

```
┌─────────────────────────────────┐
│ THANK YOU                        │
│                                  │
│                                  │
│ BEER        T1      · 10.00      │
│ -%                    10.000     │
│ -1.00                            │
│ CASH                · 9.00       │
│ TAX1 8.000%         · 0.74       │
│ 11-05-95              15:29      │
│ 000020 CLERK A          30       │
└─────────────────────────────────┘
```

4-4-2. PERCENT ON A DEPARTMENT OR PLU FOR THE MANUAL RATE

You can operate this key without the preset rate.
The manual rate is the number of 5 figures between 0 % and 99.999 %.

```
                                       ┌ +%
 ......            .                   |
            n1   n2       n3   n4   n5  └ -%
          └_____┘
                  Manual rate
```

Example. The price of Department 1 is 10.00 and Percent discount is 5.000%.

```
1   0   0   0   DPT1   ── Sale item

5   ·   0   0   0   -%   ── Percent discount on manual rate

        CASH/TEND ── Tender
```

```
┌─────────────────────────────┐
│ BEER      T1      ·10.00     │
│ -%                5.000      │
│ -0.50                        │
│ CASH              ·9.50      │
│ TAX1 8.000%       ·0.74      │
│ 11-05-95          15:29      │
│ 000021 CLERK A      30       │
└─────────────────────────────┘
```

4-4-3. PERCENT ON SALE TOTAL

```
                 ┌ +%
······ SUBTOTAL  |                    In case of preset rate
                 └ -%
```

```
                              ┌ +%
······ SUBTOTAL        ·      |        In case of the manual rate
          n1  n2    n3  n4  n5 └ -%
          └──────────────────┘
               Manual rate
```

Example. In case of Preset rate percent discount is 10.000%.

```
3   0   0   0   DPT3   ── Transaction

        SUBTOTAL ── Output subtotal

        -%       ── Percent discount on preset rate

        CASH/TEND ── Tender
```

```
┌─────────────────────────────┐
│ DEPT.3            ·30.00     │
│                              │
│ SUBTOTAL          ·30.00     │
│                              │
│ -%                10.000     │
│                              │
│ -3.00                        │
│                              │
│ CASH              ·27.00     │
└─────────────────────────────┘
```

Example. In case of Manual rate percent discount is 5.000%.

```
1    0    0    0    DPT1    ── Sale item

3    0    0    0    DPT2

                    SUBTOTAL    ── Output subtotal

5    ·    0    0    0    -%    ── Percent discount on manual rate

                    CASH/TEND ──Tender
```

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│ BEER        T1      · 10.00 │
│ DEPT.2      T2      · 30.00 │
│ SUBTOTAL            · 40.00 │
│  -%                   5.000 │
│ -2.00                       │
│ CASH                · 38.00 │
│ TAX1 8.000%          · 0.74 │
│ 11-05-95             15:30  │
│ 000024 CLERK A          30  │
└─────────────────────────────┘
```

4-5. RETURN MERCHANDISE

This operation is used to return merchandise.
See the follows.

```
        ┌ DPT
RF  │                              -- In case of Preset price
        └ PLU


RF  ┌────────── ······ ──────── DPT   -- In case of Manual price
    │   n1   n2          n7   n8
    │   └──────────────────────┘
    │           Price
    │
    └ RA                PLU      ······    PLU ── PLU overriding
        n1   n2   n3        n4   n5      nx
        └──────────┘        └──────────────┘
           PLU No.                Price
```

41
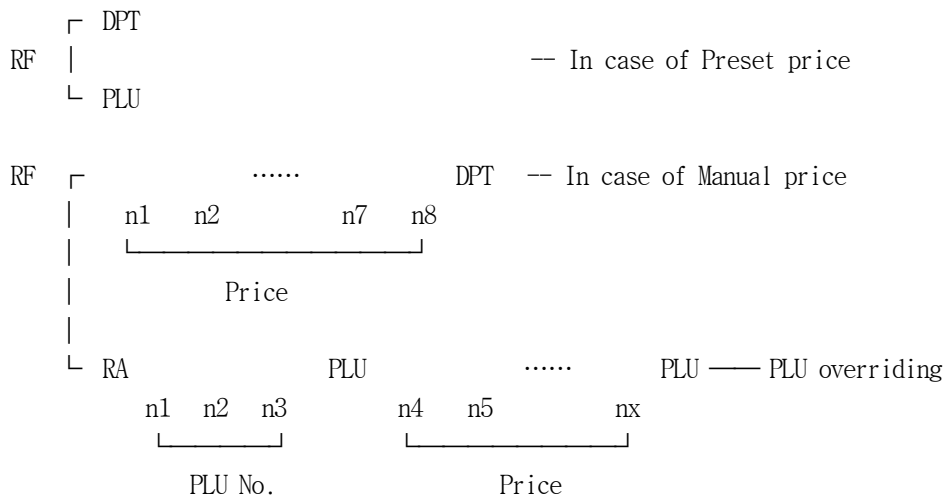
Example. PLU 12 has Preset price, 2.50.

```
              RF        —— Return
                           merchandise
    1    2    PLU       —— Preset PLU 12

              CASH/TEND —— Tender
```

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│ RETURN MDSE                 │
│ PLU12      T1      -2.50    │
│ CASH               -2.50    │
│ TAX1 8.000%        -0.19    │
│ 11-05-95           15:30    │
│ 000024 CLERK A        30    │
└─────────────────────────────┘
```

Example. Return Department 1, 5.00.

```
              RF        —— Return
                           merchandise
    5    0    0    DPT1 —— Sale item

              CASH/TEND —— Tender
```

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│ BEER       T1      -5.00    │
│ CASH               -5.00    │
│ TAX1 8.000%        -0.37    │
│ 1-05-95            15:30    │
│ 000025 CLERK A        30    │
└─────────────────────────────┘
```

4-6. VOID

4-6-1. LAST ITEM VOID / ERROR ITEM

This key corrects the last item or voids the last item only.

```
    1    0    0    0    DPT1    —— Sale item

    2    0    0    0    DPT4

              VD        —— Void or Correct the last item

              CASH/TEND —— Tender
```

```
┌─────────────────────────────┐
│ BEER       T1      10.00    │
│ DEPT.4     T1     ·20.00    │
│ VOID                        │
│ DEPT.4     T1     -20.00    │
│ CASH              ·10.00    │
│ TAX1 8.000%        ·0.74    │
│ 11-05-95           15:30    │
│ 000026 CLERK A        30    │
└─────────────────────────────┘
```

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```
1    2    PLU         —— Preset PLU 12              | THANK YOU                    |
                                                     |                              |
          PLU         —— Repeat Entry               | PLU12      T1        ·2.50    |
                                                     | PLU12      T1        ·2.50    |
          VD          —— Void or                     | VOID                         |
                         Correct the last item      | PLU12      T1       -2.50     |
1    2    VD    PLU —— Previous item                 | VOID                         |
                                                     | PLU12      T1       -2.50     |
          CASH/TEND —— Tender                        | CASH                 0.00    |
                                                     | 11-05-95          15:30      |
                                                     | 000027 CLERK A        30     |
```

4-6-2. VOID PREVIOUS ITEM

```
1    0    0    0    DPT1        —— Sale item

2    0    0    0    DPT4

1    0    0    0    VD    DPT1 —— Void Previous item

          CASH/TEND  —— Tender               | THANK YOU                  |
                                             |                            |
                                             | BEER       T1      ·10.00  |
                                             | DEPT.4     T1      ·20.00  |
                                             | VOID                       |
                                             | BEER       T1      -10.00  |
                                             | CASH               ·20.00  |
                                             | TAX1 8.000%        ·1.48   |
                                             | 11-05-95           15:31   |
                                             | 000028 CLERK A       30    |
```

4-7. MINUS

```
1    0    0    0    DPT1 —— Sale item         | BEER       T1      ·10.00  |
                                              | DEPT.2     T2      ·20.00  |
2    0    0    0    DPT2 —— Sale item         | AMT. DISCOUNT      -1.00   |
                                              | CASH               ·29.00  |
     1    0    0    -    —— Discount          | TAX1 8.000%        ·0.74   |
                                              | 11-05-95           15:31   |
          CASH/TEND —— Tender                 | 000029 CLERK A       30    |
```

4-8. TAX

This is used only for External Straight Tax.

```
                    ·                        TAX
         n1    n2          n3    n4    n5
         └─────────────────────────────┘
                    Manual rate
```

4-9. CURRENCY CONVERSION

Currency conversion converts foreign currency to home amount.
You have to set up the exchange rate.(see 3-6)

```
      SUBTOTAL     C/CONV.              ── Total up to now

            ······              CASH/TEND ── Foreign currency & Tender
      n1   n2       n7   n8
      └────────────────────┘
         Foreign currency
```

Example. You sold the Price of Department 5,1.00 and received Foreign currency 3.00.
         The Exchange rate was set up 2.4455.

```
      1    0    0    DPT5       ── Sale item

                     SUBTOTAL   ── Output Subtotal

                     C/CONV.    ── Display calculated amount

      3    0    0    CASH/TEND  ── Foreign currency & Tender
```

DEPT.5	· 1.00
SUBTOTAL	· 1.00
TOTAL	· 1.00
FOREIGN AMT	@3.00
CHANGE RATE	#2.4455
HOME AMT	· 1.23
CHANGE	· 0.23
11-05-95	15:31
000030 CLERK A	30

4-10. CANCEL

When you have completed the transaction on the subtotal press CANCEL .

```
1    0    0    DPT1    ——— Sale item

2    0    0    DPT2

3    0    0    DPT3

          SUBTOTAL  ——— Subtotal
          CANCEL    ——— Cancel
```

```
┌──────────────────────────────┐
│ THANK YOU                     │
│                               │
│ BEER      T1        · 1.00    │
│ DEPT.2    T2        · 2.00    │
│ DEPT.3              · 3.00    │
│ SUBTOTAL            · 6.00    │
│ CANCEL———————————————————     │
│ 11-05-95            15:32     │
│ 000031 CLERK A        30      │
└──────────────────────────────┘
```

4-11. NO SALE

4-11-1. OPEN DRAWER

This is used to open the cash drawer outside of a sale.

```
#/NS
```

```
┌──────────────────────────────┐
│ THANK YOU                     │
│                               │
│                               │
│                               │
│ OPEN DRAWER                   │
│ 11-05-95            15:32     │
│ 000032 CLERK A        30      │
└──────────────────────────────┘
```

4-11-2. NON ADD NUMBER

This is used to print the reference number.

```
              ......           #/NS
      n1   n2         n7   n8
      └────────────────────┘
          Reference number
```

Example. The reference number is 123456.

```
   1    2    3    4    5    6    #/NS
```

```
┌──────────────────────────────┐
│ NON ADD NO.          123456   │
└──────────────────────────────┘
```

4-12. RECEIVED ON ACCOUNT

······   RA

$n1$ $n2$ $n7$ $n8$

└─────────────────────┘

money received on

Example. Received on 30.00.

3   0   0   0   RA

RECEIVED ON	· 30.00
11-05-95	15:32
000033 CLERK A	30

4-13. PAID OUT

4-13-1. PAID OUT OPERATION

······   PO

$n1$ $n2$ $n7$ $n8$

└─────────────────────┘

money paid out

Example. Paid out 20.00.

2   0   0   0   PO

THANK YOU	
PAID OUT	· 20.00
11-05-95	15:32
000034 CLERK A	30

4-13-2. POST FINALIZATION RECEIPT

Receipt issued when required.
Set up System option 19.

NOTE !! Refer to 3-1. SYSTEM OPTION about receipt buffer.

Before operating the register, depress the   PO key.

And Receipt buffer function is started since then.
It the moment you need receipt, depress the　CASH/TEND key.
Then it will be issued the receipt.
Depress the　PO　key again, this function is canceled since then.

				PO	—— Start Receipt buffer function
1	0	0	0	DPT1	—— Sale item
2	0	0	0	DPT2	
				CASH/TEND	——Tender(The receipt is not issued until now.)
				CASH/TEND	—— Issue the receipt when you need it.
				PO	—— Cancel Receipt buffer function.

```
THANK YOU


BEER         T1        · 10.00
DEPT.2       T2        · 20.00
CASH                   · 30.00
TAX1 8.000%            · 0.74
11-05-95                 15:32
000035 CLERK A              30
```

NOTE !!   If The sale item is more than 30 items or the tender key is used more than 3 times
in performing this function, you get a receipt as follows.

```
THANK YOU



BEER         T1        · 10.00
BEER         T1        · 10.00
             :
DEPT.2       T2        · 20.00
DEPT.2       T2        · 20.00
             :
DEPT.3                 · 30.00
DEPT.3                 · 30.00

             :
```

```
...........................................
TOTAL                  · 640.00
CASH                   · 50.00
TOTAL                  · 590.00
CHECK                  · 30.00
TOTAL                  · 560.00
CASH                   · 50.00
TOTAL                  · 510.00

...........................................
CHARGE                 · 480.00
TAX1 8.000%            · 10.37
11-05-95                 20:01
000056 CLERK A             30
```

4-14. SUBTOTAL

```
2   0   0   0   DPT1   ── Sale
                          item
               SUBTOTAL ── Subtotal

               CASH/TEND ── Tender
```

```
THANK YOU


BEER          T1        · 20.00
SUBTOTAL                · 20.00
CASH                    · 20.00

TAX1 8.000% ·              1.48
11-05-95                 15:32
 000036 CLERK A            30
```

4-15. ADD CHECK

You can issue the split receipt with this key.
After issuing split receipts, depress the CASH/TEND key.
Then you get total of sale.

```
1   0   0   0   DPT2 ── Sale item

               ADD  ── Issue
               CHECK    Split receipt
```

```
THANK YOU


DEPT.2        T2        · 10.00
TOTAL                   · 10.00
11-05-95                 15:32

000037 CLERK A             30
```

```
2   0   0   0   DPT3 ── Sale item
               ADD  ── Issue
               CHECK    Split receipt
```

```
THANK YOU



DEPT.3                  · 20.00
TOTAL                   · 20.00
11-05-95                 15:32
000038  CLERK  A           30
```

```
               CASH/TEND ── Tender
```

```
THANK YOU



CASH                    · 30.00
11-05-95                 15:33
000039 CLERK A             30
```

4-16．TENDER

These keys are finalization CHECK , CHARGE , CASH/TEND key.
They can also be used for split tendering and change calculation.

4-16-1. CASH TENDER

2   0   0   0   DPT1   —— Sale item

SUBTOTAL   —— Amount of sale

5   0   0   0   CASH/TEND —— Amount tender on cash

```
THANK YOU


BEER          T1        · 20.00
SUBTOTAL                · 20.00
TOTAL                   · 20.00
CASH                    · 50.00
CHANGE                  · 30.00
TAX1 8.000%             ·  1.48
11-05-95                  15:33
000040 CLERK A              30
```

4-16-2. CHECK TENDER

1   0   0   0   DPT1 —— Sale item

CHECK —— Non-amount
       Tender on Check

```
THANK YOU

BEER          T1        · 10.00
CHECK                   · 10.00
TAX1 8.000%             ·  0.74
11-05-95                  15:33
000041 CLERK A              30
```

4-16-3. CHARGE TENDER

```
2    0    0    0    DPT3  ——— Sale item

                    DPT3  ——— Repeat
                                entry
              SUBTOTAL  ——— Output
                                subtotal
               CHARGE  ——— Non-amount
                           Charge tender
```

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│ DEPT.3              · 20.00 │
│ DEPT.3              · 20.00 │
│ SUBTOTAL            · 40.00 │
│ CHARGE              · 40.00 │
│ 11-05-95              15:33 │
│ 000042 CLERK             30 │
└─────────────────────────────┘
```

4-16-4. CHECK CASHING

Check cashing means changing cash against a check.
If this function was set up in System option, you can use this function.

NOTE !! Refer to SYSTEM OPTION about check cashing.

```
2    0    0    0    CHECK  ——— Check
                                 cashing
```

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│                             │
│   <<   CHECK CASHING   >>   │
│ CHECK               · 20.00 │
│ CASH                -20.00  │
│ 11-05-95              15:33 │
│ 000043 CLERK A           30 │
└─────────────────────────────┘
```

4-16-5. SPLIT TENDER

You can use the tender key several times.

```
1    0    0    0    DPT1  ——— Sale item

2    0    0    0    DPT2

              SUBTOTAL  ——— Output
                           Subtotal
2    0    0    0    CASH/TEND  ——— Split
                          Tender on Cash

               CHARGE  ——— Non-amount
                        Tender on Charge
```

```
┌─────────────────────────────┐
│ THANK YOU                   │
│                             │
│ BEER       T1       · 10.00 │
│ DEPT.2     T2       · 20.00 │
│ SUBTOTAL            · 30.00 │
│ TOTAL               · 30.00 │
│ CASH                · 20.00 │
│ TOTAL               · 10.00 │
│ CHARGE              · 10.00 │
│ TAX1 8.000%         ·  0.74 │
│ 11-05-95              15:33 │
│ 000044  CLERK  A         30 │
└─────────────────────────────┘
```

4-16-6. POST TENDER

Allows change calculation option is after finalization.

NOTE !! Refer to 3-1. SYSTEM OPTION about Post tender.

						THANK YOU		

```
        6    0    0    DPT1      ——  Sale          | THANK YOU
                                     item          |
                       SUBTOTAL   ——  Output        | BEER          T1        · 6.00
                                     subtotal       | SUBTOTAL                · 6.00
                       CASH/TEND  ——  Amount         | CASH                    · 6.00
                                     Tender on Cash  | TAX1 8.000%             · 0.44
        1    1    5    0    CASH/TEND ——  Post        | 11-05-95                15:33
                                     tender          | 000045 CLERK A             30
```

5. VOID POSITION OPERATIONS

Void position is used for void operation outside of a sale.
Entries can be voided in the VOID control lock position by re-entering
the incorrect operation exactly as it was entered in the REG position.

6. REPORTS

System reports are divided into two basic categories; "X", or read-only and "Z", or read & reset to zero. Most reports are available in both categories.

NOTE 11 Refer to REPORT TABLE about report.

6-1. CASH-IN-DRAWER DECLARATION

In System Option Programming (3-1), Cash-In- Drawer Declaration can be programmed as compulsory.
Cash-In-Drawer Declaration is performed by adding the total of each type of media in the drawer, and pressing the   SUBTOTAL key with numeric key will enter the information as the Cash-In-Drawer Declaration performed.
After performing this declaration, a report in X and Z position will be allowed.
In this case, the difference of input amount and Cash-In-Drawer is displayed.

* Turn to CONTROL LOCK POSITION X.

Example. You count the money in drawer, 450.00. Perform the Cash-In-Drawer Declaration.

<table>
<tr><td>4   5   0   0   0   SUBTOTAL</td><td>

THANK YOU

INPUT AMOUNT · 450.00
CASH DRAWER · 458.21
DIFFERENCE -8.21
11-05-95 15:33
000046 CLERK A 30
</td></tr>
</table>

*NOTE !! If you do not issue the report in X or Z mode after this declaration,
        you can not take any registering operation.*

6-2. CASH-IN-DRAWER REPORT

After depressing the SUBTOTAL key in X mode, Cash-in-drawer Read Report
will be issued.

You can check cash on hand by this means.

THANK YOU	- STAMP
<< CASH-IN-DRAWER >>	- TITLE
CASH DRAWER · 458.21	- CASH IN DRAWER
11-05-95 15:35	- DATE, TIME
000047 CLERK A 30	- RECEIPT NO., CURRENT CLERK, MACHINE NO.

6-3. CHECK-IN-DRAWER REPORT

After depressing the CHECK key in X mode, Check-in-drawer Read Report
will be issued.

You can make check like Cash-in-drawer Read Report.

THANK YOU	- STAMP
<< CHECK-IN-DRAWER >>	- TITLE
CHECK DRAWER · 30.00	- CHECK IN DRAWER
11-05-95 15:36	- DATE, TIME
000048 CLERK A 30	- RECEIPT NO., CURRENT CLERK, MACHINE NO.

6-4. FINANCIAL REPORT

Financial report is divided into two.
One is Daily financial report and the other is Period financial report.
You can issue Daily financial report with the　CASH/TEND key and Period
financial report with the　CHARGE key.

6-4-1. FINANCIAL DAILY REPORT - X MODE

This Report is read daily financial report.
So does not reset totals, nor does it advance the Z counter.

6-4-2. FINANCIAL DAILY REPORT - Z MODE

This　report is read and reset daily financial report.
So resets totals to 0, and will advance the Z counter.

6-4-3. FINANCIAL PERIOD REPORT - X MODE

This　report is read period financial report.
So does not reset totals, nor does it advance the Z counter.

6-4-4. FINANCIAL PERIOD REPORT - Z MODE

This　report is read and reset period financial report.
So resets totals to 0, and will advance the Z counter.

FINANCIAL REPORT

THANK YOU		- STAMP
<< DAILY REPORT >>		- TITLE
Z	1	- MODE, RESET(Z) COUNTER
BEER	27.200	- DEPARTMENT COUNTER
T1	· 191.07	- TAX, TOTAL
DEPT.2	12.000	
T2	· 190.00	
DEPT.3	5.000	
	· 93.00	
DEPT.4	2.000	
T1	· 60.00	
DEPT.5	2.200	
	· 2.20	
DEPT.6	2.000	
	· 0.67	
DEPT.7	0.000	
	· 0.00	
DEPT.8	0.000	
	· 0.00	
TAXABLE1	· 233.67	- TAXABLE AMOUNT BY TAX1
TAX1 8.000%	· 17.29	- VAT1 AMOUNT
TAXABLE2	· 189.00	
TAX2 0.000%	· 0.00	
TAXABLE3	· 0.00	
TAX3 0.000%	· 0.00	
TAXABLE4	· 0.00	
TAX4 0.000%	· 0.00	
-%	4	- -% COUNTER
	-6.50	- -% TOTAL
+%	0	- +% COUNTER
	· 0.00	- +% TOTAL
-	1	- - COUNTER
	-1.00	- - TOTAL
NET TOTAL	· 529.44	- NET TOTAL00

RETURN MDSE	2	- RETURN MERCHANDISE COUNTER
	-7.50	- RETURN MERCHANDISE TOTAL
VOID KEY	4	- VOID KEY COUNTER
	-35.00	- VOID KEY TOTAL
VOID MODE	0	- VOID MODE COUNTER
	0.00	- VOID MODE TOTAL
CANCEL	1	- CANCEL COUNTER
	· 6.00	- CANCEL TOTAL
GROSS TOTAL	· 544.44	- GROSS TOTAL
CASH	31	- CASH SALES COUNTER
	· 469.44	- CASH SALES TOTAL
CHECK	1	- CHECK SALES COUNTER
	· 10.00	- CHECK SALES TOTAL
CHARGE	2	- CHARGE SALES COUNTER
	· 50.00	- CHARGE SALES TOTAL
RECEIVED ON	1	- RECEIVED ON ACCOUNT COUNTER
	· 30.00	- RECEIVED ON ACCOUNT TOTAL
PAID OUT	1	- PAID OUT COUNTER
	· 20.00	- PAID OUT TOTAL
CURRENCY TOT	· 3.00	- CURRENCY TOTAL
CASH DRAWER	· 458.21	- CASH-IN-DRAWER
CHECK DRAWER	· 30.00	- CHECK-IN DRAWER
NO SALE CNT	1	- NO SALE COUNTER
CUSTOMER CNT	33	- CUSTOMER COUNTER
********************		
GRAND TOTAL		- GRAND TOTAL
	· 544.44	
11-05-95	15:34	- DATE, TIME
000049 CLERK A	30	- RECEIPT NO., CURRENT CLERK, MACHINE NO.

6-5. TIME REPORT

you depress the   X/TM key in X mode, and then it will issue Time Read Report.
If you depress the   X/TM key in Z mode, it will issue Time Read and Reset
Report.

THANK YOU	- STAMP
<< TIME REPORT >>	- TITLE
Z 1	- MODE, RESET(Z) COUNTER
15:00 33	- TIME, COUNTER
· 529.44	- TIMELY TOTAL
*********************	
CNT TOTAL 33	- SALES COUNTER
TOTAL · 529.44	- SALES TOTAL
11-05-95 15:35	- DATE, TIME
000050 CLERK A 30	- RECEIPT NO., CLERK, MACHINE NO.

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6-6. PLU REPORT

6-6-1. FROM-TO PLU REPORT

Enter the start number of PLU to be read, depress the   PLU key, then
the last number of PLU to be read, depress the   PLU key in X mode.

Example. Issue From 10 To 20 PLU REPORT.

1   0   PLU ———— Enter the start number of PLU

2   0   PLU ———— Enter the last number of PLU

THANK YOU		- STAMP
<< PLU REPORT >>		- TITLE
FROM 10 TO 20		- THE START NUMBER OF PLU, THE LAST NUMBER OF PLU
X	1	- MODE, COUNTER
PLU12	8.000	- PLU NO, COUNTER
81 T1	@2.50	- HDLO, TAX, SINGLE ITEM, PRESET PRICE
DEPT.1	· 21.67	- LINKED DEPARTMENT,TOTAL
********************		
CNT TOTAL	8.000	- SALES COUNTER
TOTAL	· 21.67	- SALES TOTAL
11-05-95	15:34	- DATE, TIME
000051 CLERK A	30	- RECEIPT NO., CURRENT CLERK, MACHINE NO.

6-6-2. TOTAL PLU REPORT

     After depressing the   PLU key in X mode, PLU Read Report will be issued.
After depressing the   PLU key in Z mode, PLU Read and Reset Report will be
issued.

THANK YOU		- STAMP
<< PLU REPORT >>		-TITLE
Z	1	- MODE, RESET(Z) COUNTER
PLU12	8.000	- PLU NO., COUNTER
81 T1	@2.50	- HDLO, TAX, SINGLE ITEM, PRESET PRICE
DEPT.1	· 21.67	- LINKED DEPARTMENT, TAX, TOTAL
PLU25	4.200	
40	@0.00	
DEPT.1	· 17.40	
********************		
CNT TOTAL	12.200	- SALES COUNTER
TOTAL	· 39.07	- SALES TOTAL
11-05-95	15:34	- DATE,TIME
000052 CLERK A	30	- RECEIPT NO., CURRENT CLERK, MACHINE NO.

6-7. CLERK REPORT

After depressing the　CLERK key in X mode, it will issue Clerk Read Report.
After depressing the　CLERK key in Z mode, it will issue Clerk Read and Reset Report.

THANK YOU		-STAMP
<<　CLERK REPORT　>>		- TITLE
Z	1	- MODE, RESET(Z) COUNTER
· CLERK A	· 529.44	- NET TOTAL OF EACH CLERK
NO SALE CNT	1	- NOSALE COUNTER OF EACH CLERK
CUSTOM. CNT	33	- CUSTOMER COUNTER OF EACH CLERK
· CLERK B	· 0.00	
NO SALE CNT	0	
CUSTOM. CNT	0	
· CLERK C	· 0.00	
NO SALE CNT	0	
CUSTOM.CNT	0	
· CLERK D	· 0.00	
NO SALE CNT	0	
CUSTOM. CNT	0	
· NO CLERK	· 0.00	
NO SALE CNT	0	
CUSTOM. CNT	0	
*********************		
NO SALE CNT	1	- NO SALE COUNTER
CUSTOM. CNT	33	- CUSTOMER COUNTER
TOTAL	· 529.44	- NET TOTAL
11-05-95	15:35	- DATE, TIME
000053 CLERK A	30	- RECEIPT NO., CURRENT CLERK, MACHINE NO.

REPORT TABLE

R E P O R T		MODE	K E Y I N P U T
Financial Daily	Read	X	CASH/TEND
	Read & Reset	Z	
Financial Period	Read	X	CHARGE
	Read & Reset	Z	
T I M E	Read	X	X/TM
	Read & Reset	Z	
P L U	Read	X	PLU
	Read & Reset	Z	
	From-To Read	X	The Start number of PLU,PLU The Last number of PLU,PLU
C L E R K	Read	X	CLERK
	Read & Reset	Z	
CASH - IN - DRAWER	Read	X	SUBTOTAL
CHECK - IN - DRAWER	Read	X	CHECK

7. SYSTEM BALANCING

7-1. DEPARMENT SALES TOTAL

The sum of all department totals: Add all positive departments,

subtract all negative department.

7-2. NET TOTAL

Net total   = The sum of all department totals

+ Tax total (Add-on tax & External straight tax)

+ % total

+   -   total

7-3. GROSS TOTAL

Gross total   = Net total

- Return merchandise

- VOID Position total

- % total

- - total

7-4. GRAND TOTAL

Ending Grand total   = Gross total

+ Previous Grand total

8. SPECIFICATION

· POWER   : AC 110V/230V ± 10%, 50/60 ㎐

· OPERATING TEMPERATURE : 0℃ - 40℃

· MEMORY PROTECTION   : Approx. 60 days battery

· DISPLAY UNIT   : 10 digits (front and rear)

· PRINTER UNIT
   - CAPACITY   : DOT MATRIX 26 CHARACTERS
   - PRINTED SPPEED   : 2.6 line/sec
   - PAPER ROLL   : 57.5 ± 0.5 mm, Diameter - 70 ㎜

· INK RIBBON   : PURPLE

· DIMENSION   : 400(W) × 450(D) × 266(H) mm

· WEIGHT   : 15.5 ㎏