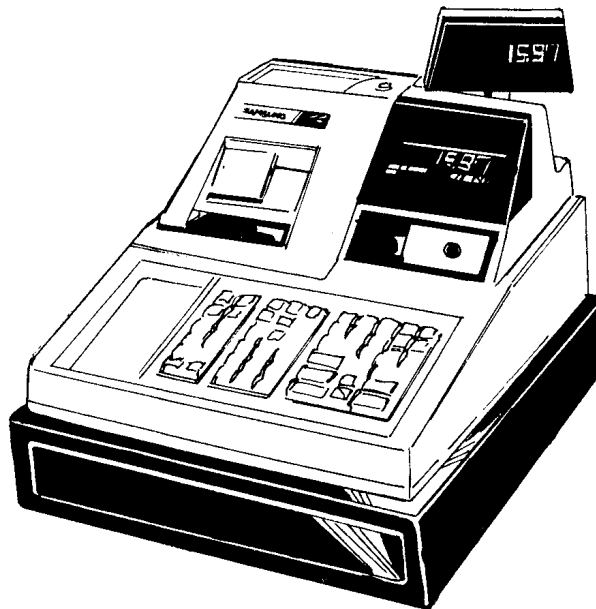# Programming &
Operation Manual

All specifications are subject to change without notice.

C E

UNPACKING AND START UP INSTRUCTIONS

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

STEP 1 UNPACK CASH REGISTER.

1. Unpack and unwrap the cash register.

2. Locate in the packing the following items.
   * 2 rolls of paper
   * 1 rewind spindle
   * 1 ribbon cartridge

3. Remove cardboard protectors from the cash drawer.

STEP 2 INSERTING THE PRINTER RIBBON CARTRIDGE

1. Locate the printer cover key. The printer cover key is the smallest on the key ring.
   Insert this key into the printer cover lock. Turn the key, and remove the printer cover.

2. Locate the ribbon cartridge as shown in the illustration.

3. Insert the ribbon cartridge and press firmly into place. Remove any slack in the ribbon
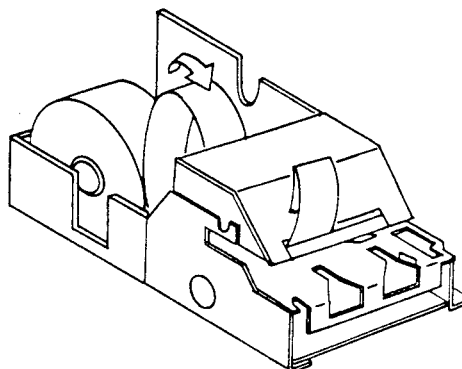   by rotating he cartridge knob counter-clockwise.
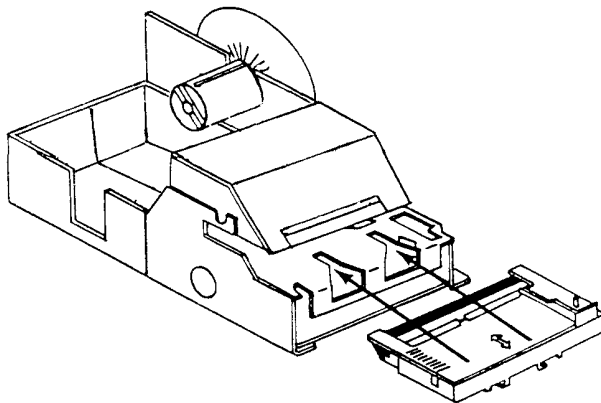
STEP 3 PUTTING PAPER IN THE PRINTER.

INITIAL LOADING OF THE DETAIL PRINTER:

1. Plug the cash register's power code into properly grounded wall socket.

2. Place the key marked 'REG' into the control lock and turn to the 'REG' position.

3. Locate the black plastic rewind spindle in the styrofoam packing material.

4. As you face the keyboard, notice two plastic trays at the bottom of the printer compartment. Place one of the rolls of printer paper into the tray on the right. Make sure the paper will unwind from the bottom of the roll.

5. Fold back approximately 6 inches of paper and insert the folded end of the tape into the feed slot just in front of the paper tray at the rear of the printer.

6. Press the DETAIL FEED key on the cash register keyboard until the edge has fed through the printer. Run 6 - 8 inches of paper through the printer.

7. Hold the black rewind spindle with the gear to the right and the shaft to the left. Insert the end of the paper into the slot on the shaft of the rewind spindle. Wind the spindle several turns to be sure the paper will stay on the spindle.

8. Slide the axle of the rewind spindle (between the gear and the shaft) into the notch of the printer housing.
Make sure the gear on the rewind spindle meshes with the gear on the printer.

9. Press the DETAIL FEED key several more times to make sure the paper moves properly through the printer.
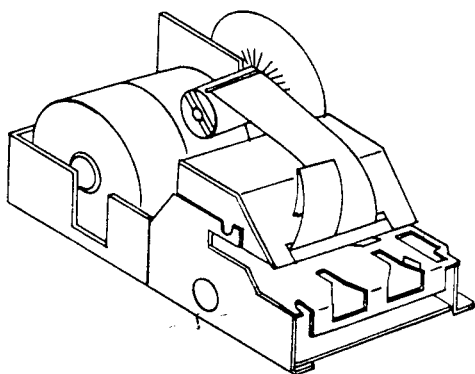
* LOADING DETAIL PAPER *   * LOADING RECEIPT PAPER *

- 2 -

LOADING THE RECEIPT PRINTER:

1. Place the other roll of paper into the small tray of the left of the printer compartment.

2. Make sure the paper unrolls from the bottom of the roll.

3. Insert the paper into the left slot of the printer.

4. Press the RECEIPT FEED key until the paper comes through the printer.
   Continue to press the key until 3 - 4 inches of paper are through the printer.

5. Replace the printer cover, making sure the receipt paper comes out through the opening
   in the printer cover.

FOLLOW THE STEPS ABOVE ANYTIME YOU NEED TO REPLACE THE RECEIPT OR DETAIL TAPES. HOWEVER,
WHEN REPLACING DETAIL TAPES, CUT THE OLD DETAIL TAPE AT THE REWIND SPINDLE. THEN USE THE
PAPER FEED KEY TO FREE THE OLD PAPER FROM THE PRINTER. UNWIND THE OLD DETAIL TAPE FROM THE
REWIND SPINDLE.

NOTE : DO NOT PULL THE PAPER BACK THROUGH THE PRINTER AS THIS MAY DAMAGE IT.

PRINTER

CORRECT

PRINTER

INCORRECT
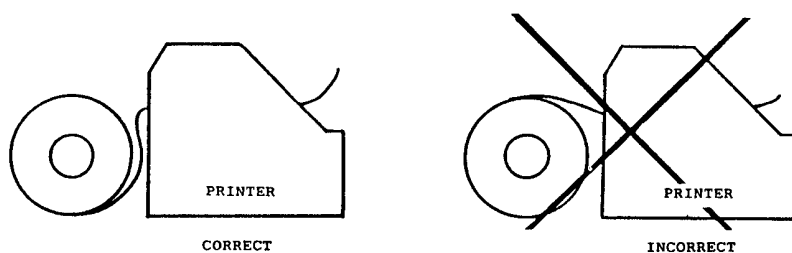
STEP 3 CLEARING THE RANDOM ACCESS MEMORY (RAM CLEARING)

Proper operation and programming of this ECR requires that you clear the RAM of the cash register. follow this procedure:

1. Unplug the cash register

2. Locate control lock key marked 'C'.

3. Insert the key into the control lock and turn clockwise, past the position marked 'P' to the 'SERVICE MODE' position. This position is not marked on the control lock, but the 'C' key can travel to this position.

4. Hold down the " 00 " key on the keyboard. While continuing to hold this " 00 " key down, plug the cash register's power cord into properly grounded wall socket.

CONTINUE TO HOLD THE " 00 " KEY DOWN UNTIL THE RECEIPT PRINTER STOPS PRINTING AND THE DISPLAY SHOWS 0.00.

The cash register is now ready to operate.

```
WARNING : Clearing the RAM is essential before you program the cash
register for the first time. However once the register if programmed
and operated, clearing the RAM will cause all programs and totals to
be lost.
```

* WARNING : - The printer cover should not be open while operating the machine.

      - Do not operate the machine without a ribbon cartridge.

* The power cord serves as a disconnect device.

```
NOTE : When first configuring the ECR, it is recommended that the register remain
       powered on in the "REG" mode for at least twenty-four hours. This allows the
       Ni-Cad battery, which maintains the memory of the machine while the power is
       off, to charge completely
```

TABLE OF CONTENTS

FEATURES

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

High precision electronic parts ensure outstanding reliability.

* Two-station printer with one-line validation capabilities.

* Front and rear/pop up displays.

* 6-positions control lock.

* 24 hour time clock with automatic date change.

* 15 departments (ER-4615)
  40 departments (ER-4640)

* 300 open or preset PLUs.

* 4 push-button clerks with separate report totals.

* 4 VAT or straight percentage TAX.

* Management reports.

  - Daily and period-to-date financial, hourly, plu and clerk reports.
  - Daily sales report.
  - Optional compulsory cash declaration.

* Cancel function.

* Currency conversion function

* Post tendering.

* Preset cash tendering.

* Add check function.

* Trainning operation.

* Cash drawer compulsory.

KEYBOARD LAYOUT

The diagram below indicate the keyboard on this ECR.

1. ER - 4615 keyboard layout.

RECEIPT ON/OFF	RECEIPT FEED	DETAIL FEED	PLU	RECD ACCT	PAID OUT	A	B	D	E
VALID	VOID	CLEAR	#/NS	X/TIME	5	10	15	ADD CHECK	PRESET CASH
MDSE RETURN	VAT	7	8	9	4	9	14	CHARGE 1	PRESET CASH
CANCEL	VAT SHIFT	4	5	6	3	8	13	CHARGE 2	PRESET CASH
%1	CONV 1	1	2	3	2	7	12	CHECK	SUBTOTAL
%2	CONV 2	O	OO	.	1	6	11	CASH/TEND	

2. ER - 4640 keyboard layout.

RECEIPT ON/OFF	RECEIPT FEED	DETAIL FEED	VALID	#/NS	VAT	VAT SHIFT	PLU		RECD ACCT	PAID OUT	A	B	D	E
VOID	ADD CHECK	CLEAR		X/TIME	5	10	15	20	25	30	35	40	CHARGE 1	PRESET CASH
MDSE RETURN	CONV 1	7	8	9	4	9	14	19	24	29	34	39	CHARGE 2	PRESET CASH
CANCEL	CONV 2	4	5	6	3	8	13	18	23	28	33	38	CHECK	PRESET CASH
%1	%3	1	2	3	2	7	12	17	22	27	32	37	SUBTOTAL	
%2	%4	O	OO	.	1	6	11	16	21	26	31	36	CASH/TEND	

FUNCTION KEY DESCRIPTION

K E Y	DESCRIPTION
RECEIPT ON/OFF	Use this key to turn the receipt print on and off. When the RECEIPT OFF sign is illuminated on the display panel, the receipt printer will be turned off.
RECEIPT FEED	Press this key to advance the customer's receipt tape.
DETAIL FEED	Press this key to advance the detail tape.
A,B,D,E (CLERK)	Use these four keys to log on clerks for operations and reports. A clerk must be logged on before the cash register will operate.
VALID (VALIDATION)	Use this key to print one line validation on a check or slip.
MDSE RETURN (MERCHANDISE RETURN)	Use this key to return merchandise outside of sale. MDSE RETURN activity reports to a total on the financial report.
#/NS	Use this key to open the cash drawer outside of a sale. This key can also be used to enter numbers that appear on the receipt and detail tapes but do not affect the sale total.
VAT (VALUE ADDED TAX)	Use this key to breakdown the amount due including value added tax.
VAT SHIFT	Use this key to shift the tax status of a particular department or PLU.
PLU	Use this key to register a Price Look Up (PLU)
VOID	Use the void key to correct entries before a sale is finalized.
CANCEL	Use this key to cancel present incomplete transactions without updating departments, PLU's, or function key totals. Cancel total is accumulated for the cancel function key itself in the financial report. The number of items to be canceled are limited to about 30 items before the tendering operation.
CLEAR	Use this key to clear incorrect entries made on the 10 numeric keys. The clear key also clears error conditions and silence's the error tone.
X/TIME	Use this key for multiplication and split pricing.
DEPARTMENTS (ER-4615 : 1 - 15) (ER-4640 : 1 - 40)	Use these keys to make entries during a sale
GALLONAGE DEPARTMENT KEYS	Open-amount department entry keys which compute quantity sold by dividing amount entered by the programmed unit price when department keys are programmed with gallonage department status.
% 1 , % 2 % 3 , % 4	Use these key to register discount, surcharge and coupons. Depending on programming, the %1 - %4 keys can be used to register percents or amount, can be added to an item or an entire sale. (% 3 and % 4 - For only ER-4640)

K E Y	DESCRIPTION
1 - 9, 0, 00	Use these numeric keys for all numeric entries on the cash register.
DECIMAL (.)	Use this key for decimal multiplication.(= DECIMAL POINT)
RECD ACCT (R/A)	Use this key to register cash and check(media) added to the cash till.(= RECEIVED ACCOUNT)
PAID OUT (P/O)	Use this key to register media that is removed from the cash drawer.
CURRENCY CONVERSION (CONV 1, CONV 2)	Use this key to convert a home currency to the equivalent of another country's currency. These keys are allowed after subtotal, convert and re-display the subtotal at a preprogrammed exchange rate. Tendering is allowed after using the currency conversion function. Change is calculated in home currency. The amount of foreign currency tendered is stored in a separate total on the financial report, but not added to the drawer total.
ADD CHECK	Use this key to combine individual guest checks that will be tendered together. Each add check entry will advance the consecutive number.
CHECK	Use this key to finalize a sale that is paid by check.
CHARGE 1 CHARGE 2	Use these keys to finalize a sale paid with a charge account. Over tender is not allowed when you finalize with the " CHARGE " key.
PRESET CASH	Use this key to finalize sales paid with cash. These keys are preset amount cash tender keys which have programmable values. By depressing a preset tender key at the end of a transaction, the preset amount is automatically tendered and the sale is finalized as a cash transaction.
SUBTOTAL	Use this key to display a subtotal.
CASH/TEND	Use this key to finalize sales paid with cash. Enter the amount tendered before pressing the " CASH/TEND " key for change calculations.

CONTROL LOCK

This ECR has a 6 position control lock.

POSITION	USE
VOID	Used to void operations outside of a sale.
OFF	Register will not operate in the off position.
REG	Used for all normal operations.
X	Used to print X level reports. Also used for manager control of voids and merchandise returns.
Z	Used to print Z level reports. Reset totals to zero.
P	Used to program the ECR.

CONTROL KEYS

This ECR has five control keys.
Each key has a specific range in the control lock, See the following.
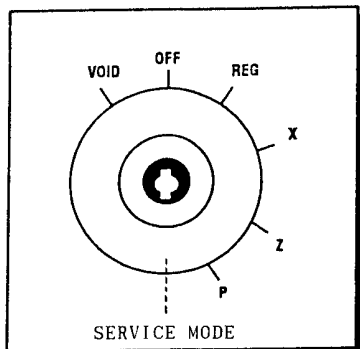
* REG - travel from 'OFF' to 'REG'

* VD - travel from 'VOID' to 'X'

* Z   - travel from 'VOID' to 'Z'

* P   - travel from 'VOID' to 'P'

* C   - travel to all key positions.

DISPLAY

This ECR has a front or operator display and pop up display.
The front display has indicator lights. These lights provide only the operator with
information about the operation of ECR.

```
        DPT      RPT                    AMOUNT
     _____  _____    _____
     1 2 3 4 5 6 7 8 . 9 0

     RCPT  VOID  SHIFT  VALID          1   2   3    4
     OFF                                   CLERK
```
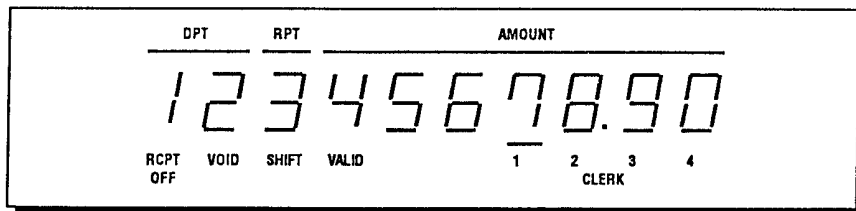
DISPLAY SYMBOLS

During operation, the display will show the following symbols:

L	Indicates the amount displayed is due as change.
=	Indicates the amount displayed is a total
—	Indicates the amount displayed is negative. This symbol shows directly in front of negative amount.
5	Indicates that the amount displayed is a subtotal.
E 1	Indicates an error condition. Press the " CLEAR " key to clear this condition.
E 2	Indicates cash drawer must be closed.
E 3 P	Indicates that validation is required.
E 4	Indicates RECD ACCT or PAID OUT transaction is not finalized.
E 5	Indicates ADD CHECK transaction is not finalized.
P P	Indicates paper jam - please turn the power off and remove the paper in the printer, turn the power on again.

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PROGRAMMING NOTE

Programming this ECR is easy.
In this manual, the programming steps are explained with flow chart boxes.
Each box represents a key on the kwyboard.
The flow charts show each key stroke you need to complete the programming.

Enter the keys in flow chart from left to right.

Default program : This machine arrives with a default or "generic" program already install-
ed. Program options are set to 0(Zero), unless otherwise noted, which me-
ans the machine is operational right out-of-the-box.

1. SERVICE MODE PROGRAMMING

Service mode programming is the initial programming that is required when the register is
new "out of the box".
Service mode programming is also used to return the register to this condition.
A total memory RAM clear will clear all totals and counters, will reset all programming
options to '0', returning the register to its default, or "out of box" program.

In addition, the number of active departments is fixed as part of the service mode
programming. Also trainning is programmed in the service mode position.

1) RAM CLEARING

This ECR has two RAM clearing steps.

A. INITIAL CLEAR

Keyboard lock-ups and constant error conditions may be cleared
by the following procedure.

(1) Turn the keylock to the 'P' position and depress the " SUBTOTAL " key.

(2) While holding the " SUBTOTAL " key down, power the register off, and back on.

CONTINUE TO HOLD THE " SUBTOTAL " KEY DOWN UNTIL THE RECEIPT PRINTER STOPS

PRINTING AND THE DISPLAY SHOW 0.00.

This procedure will not effect register programming, or clear previously stored totals
in RAM memory.

The receipt will look like this :

```
XXXXXXXXXXXXXXXXXXXXX
INITIAL CLEAR OK !
XXXXXXXXXXXXXXXXXXXXX
```

* INITIAL CLEAR *

B. CLEARING TOTALS FROM MEMORY

Totals and counters may be reset to zero either all at once, or a section at a time.
Using the following list as a guide, choose the procedure for clearing the desired
section of memory.

* ALL MEMORY RAM CLEAR

    RAM clearing the cash register erases all programming and totals.
    Use this program the first time the cash register is programmed.

* RESET ALL TOTALS & COUNTERS

    This procedure will reset ALL total and counters.
    (Consecutive NO. Z-counter, Grand total)
    This procedure will not effect register programming.

* RESET GRAND TOTAL ONLY

    This procedure resets the Grand total only, leaving all other programming,
    totals and counters intact.

Follow this procedure to clear totals from memory

(1) Unplug ECR.

(2) Insert lock key marked 'C' into the control lock and turn clockwise, past the position marked 'P', to the 'SERVICE MODE'(Master clear position) position. This position is not marked on the control lock, but the 'C' key will travel to this position.

(3) Choose the desired operation from those listed below.
    While holding the SPECIFIED key down, plug-in the ECR.

    <u>CONTINUE TO HOLD THE KEY DOWN UNTIL THE RECEIPT PRINTER STOPS PRINTING AND THE DISPLAY</u>

    <u>SHOW 0.00.</u>

KEYS

0 0   = ALL MEMORY RAM CLEAR

CHECK   = RESET ALL TOTALS & COUNTERS

CASH/TEND   = RESET GRAND TOTAL ONLY

```
XXXXXXXXXXXXXXXXXXXX
RAM ALL CLEAR OK !
XXXXXXXXXXXXXXXXXXXX
```

* ALL MEMORY RAM CLEAR *

```
XXXXXXXXXXXXXXXXXXXX
RESET ALL CNT/TOTAL !
XXXXXXXXXXXXXXXXXXXX
```

* RESET ALL TOTALS & COUNTERS *

```
XXXXXXXXXXXXXXXXXXXX
RESET GRAND TOTAL !
XXXXXXXXXXXXXXXXXXXX
```

* RESET GRAND TOTAL ONLY *

2. SETTING THE NUMBER OF DEPARTMENTS

1) Turn control lock key to the 'SERVICE MODE' position.

2) (XX)————[X/TIME]————[CASH/TEND]

```
XX :  0  = 15 DEPARTMENTS      (FOR ER - 4640 :  0  = 40 DEPARTMENTS
      5  = 5  DEPARTMENTS                       15 = 15 DEPARTMENTS)
     10  = 10 DEPARTMENTS
```

EX) If you want program 5 departments system.
    Enter 5 - [X/TIME] - [CASH/TEND]

NOTE : In order to reprogram the number of departments available, the register must first
       be RAM cleared and all programming must be re-entered.

3. TRAINNING MODE PROGRAMMING

1) Turn control lock key to the 'SERVICE MODE' position.

2) Enter the key following step.

   * To program secret code for training mode.

   [0]————[VAT]————(5 digits code)————[VAT] | TRAIN MD CODE   11111 |

   * To change from normal operation mode to trainning operation mode.

   [1]————[VAT]————(5 digits code)————[VAT] | TRAIN OPERATION BEGIN |

   NOTE: After this programming, all the amounts registered are accumulated in the trainn-
         ing mode report total area and will not effect the normal report total area.

         Trainning mode reports are only daily reports and reset totals to '0' after Z mode
         reports are produced.

         @ In the trainning mode operation, the journal paper will be not printed.

   * To change from train operation mode to normal operation mode.

   [2]————[VAT]————————————[VAT] | TRAIN OPERATION STOP |

4. PROGRAMMING

THE BALANCE OF ALL PROGRAMMING PROCEDURES TAKES PLACE WITH THE CONTROL LOCK IN THE 'P' POSITION.

* DATE AND TIME PROGRAMMING *

1. To program the date :

   A. Enter the date in the form of MM DD YY or DD MM YY or YY MM DD and week.
      (The order of date is set by SYSTEM OPTION ADDRESS 7 : Page 37)

   B. Press the " X/TIME " key.

2. To program the time :

   A. Enter standard military time in the form of HH MM.

   B. Press the " X/TIME " key.

EX) 25 DECEMBER 1993, SUNDAY   12:00 noon

(1 2 2 5 9 3 0)———| X/TIME | (1 2 0 0)———| X/TIME |
                                                    └─────
                                            └──── In military time   noon = 1200
                                                              midnight = 0000
                                                              1:30 pm = 1330
                                                              and so on

WEEK TABLE

WEEK VALUE :			
SUNDAY	0	WEDNESDAY	3
MONDAY	1	THURSDAY	4
TUESDAY	2	FRIDAY	5
		SATURDAY	6

The receipt tape will look like this :

```
DATE 12.25.'93    SUN
TIME 12:00
```


* REGISTER NUMBER PROGRAMMING *

1. Enter register number up to 4 digits.

2. Press the " MDSE RETURN " key.

D1	D2	D3	D4	MDSE RETURN

Sample receipt of register number printing :

```
MACHINE NO.      9999
```

* TAX PROGRAMMING *

You can program four tax rates on this ECR.

This ECR can calculate tax by two methods:

  * Value Added Taxes (VAT) : INCLUSIVE VAT

  * Straight percentage taxes : EXCLUSIVE VAT

IMPORTANT : TO PROGRAM TAX AS INCLUSIVE, MAKE SURE SYSTEM OPTION
            ADDRESS 31 SET TO 0.
            TO PROGRAM TAX AS EXCLUSIVE, MAKE SURE SYSTEM OPTION
            ADDRESS 31 SET TO 1.

     NOTE : IF YOU HAVE RAM CLEARED, THE MACHINE HAS THE INCLUSIVE TAX SYSTAM.

* VAT RATE PROGRAMMING

  1. Depress numeric NO. (1,2,3 or 4) and depress the " VAT " key.

  2. From the numeric key pad enter the percentage of tax.
     You must use the decimal(.) key.

     EX) 10 % tax by entering : 1 0 . 0 0 0
         6.25 % tax by entering : 6 . 2 5 0

     NOTE : YOU MUST ENTER 3 NUMBERS AFTER THE DECIMAL POINT.

  3. Depress " SUBTOTAL " key.

If you want to use the tax rounding system, refer to SYSTEM OPTION ADDRESS 29
(Page 40).

```
( X )————| VAT |————( X X . X X X )————| SUBTOTAL |
     |                            |   TAX
     |  Enter numeric             |__ RATE : 0.001 - 99.999 %
     |__ VAT NO. (1 - 4)
```
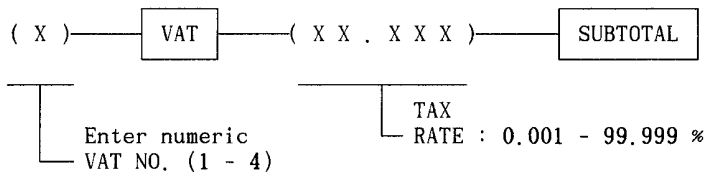

Sample receipt of VAT rate :

```
VAT 1 ————  | TAX1 RATE    10.000%
VAT 2 ————  | TAX2 RATE     8.000%
VAT 3 ————  | TAX3 RATE     6.000%
VAT 4 ————  | TAX4 RATE     5.000%
```

* CLERK SECRET CODE AND DRAWER ASSIGNMENT PROGRAMMING *

A. CLERK SECRET CODE PROGRAMMING

When you want to use the clerk code system, you should set the SYSTEM OPTION ADDRESS 26 (Page 39).

This program assigns a clerk code number to each of the 4 clerks. The code number is used by the clerk to log on for operations.

1. To program the clerk code, press the " CLERK (A,B,D or E)" key to be programmed.

   NOTE : The CLERK key to be programmed must be logged off.

2. Press the clerk number (1-4) and press the " DECIMAL POINT(.) " key.

3. Enter a secret clerk code number up to 6 digits long. And depress the "CASH/TEND" key to finalize clerk secret code programming. Repeat for up to 4 clerks.

```
┌─────────┐        ┌──────────┐          ┌────────────┐
│  CLERK  ├──( X )──┤ DECIMAL(.)├──( 6 digits code )──┤ CASH/TEND  │
└─────────┘        └──────────┘          └────────────┘
 (A,B,D,E)  ──┬──
             └──── CLERK NO. (1 - 4)
```
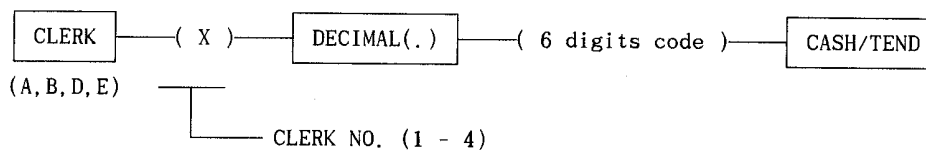
Sample receipt of clerk code input:

```
                    ┌──────────────────────┐
                    │ SYSTEM OPN 26      2  │ ──── SYSTEM OPTION
  Clerk NO.──────── │ CLK1 CODE     12345   │        ADDRESS 26.
                    │ CLK2 CODE     23456   │
                    │ CLK3 CODE     34567   │
                    │ CLK4 CODE     45678   │
                    └──────────────────────┘
```

B. CLERK DRAWER ASSIGMENT

1. Press the " CLERK (A,B,D or E)" key to be programmed.

   NOTE : the CLERK key to be programmed must be logged off.

2. Press drawer number '1' or '2' and press " #/NS " key.

3. Depress the " CASH/TEND " key to finalize drawer assignment.

```
                    ┌────────────────────────────────────────┐
                    │                                         │
            NEXT CLERK ↓                                      │
              ┌─────────┐        ┌────────┐         ┌──────────────┐
              │  CLERK  ├──( X )──┤  #/NS  ├────────►│  CASH/TEND   │
              └─────────┘        └────────┘         └──────────────┘
               A,B,D,E   ──┬──
                          └──── DRAWER NO. 1 or 2
```
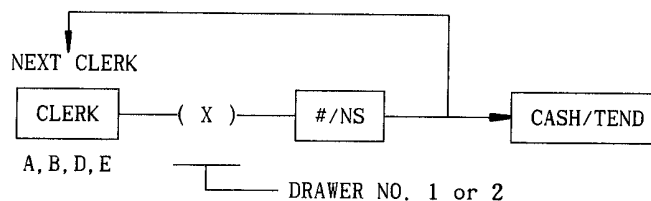
NOTE : Default drawer assignment for all clerks is drawer 1.

* DESCRIPTOR PROGRAMMING *

You can program descriptors for each department key, plu keys, clerk names, department group and some function keys using the following programming procedure.

A. PROGRAMMING

```
┌───┬───┬───┬───┐      ┌───────┐      ┌──────────────────┐      ┌───────────┐
│ Y │ X │ X │ X ├──────┤  P/O  ├─────►│  CHARACTER CODE   ├─────►│ CASH/TEND │
└───┴───┴───┴───┘      └───────┘      └──────────────────┘      └───────────┘
```
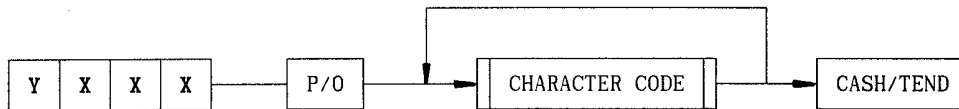
* Refer to character code table (page 23)

STANDARD DESCRIPTOR	ADDRESS Y	NUMBER X X X	CHARACTER LENGTH	REMARKS
DEPARMENT	1	001 - 015	12 CHAR.	- ER-4615
		001 - 040	12 CHAR.	- ER-4640
PLU	2	001 - 300	12 CHAR.	
CLERK1	3	0 0 1	12 CHAR.	
CLERK2	3	0 0 2	12 CHAR.	
CLERK3	3	0 0 3	12 CHAR.	
CLERK4	3	0 0 4	12 CHAR.	
GROUP0	3	0 0 5	12 CHAR.	
GROUP1	3	0 0 6	12 CHAR.	
GROUP2	3	0 0 7	12 CHAR.	
GROUP3	3	0 0 8	12 CHAR.	
GROUP4	3	0 0 9	12 CHAR.	
GROUP5	3	0 1 0	12 CHAR.	
GROUP6	3	0 1 1	12 CHAR.	
GROUP7	3	0 1 2	12 CHAR.	
GROUP8	3	0 1 3	12 CHAR.	
GROUP9	3	0 1 4	12 CHAR.	
CASH	3	0 1 5	12 CHAR.	
CHECK	3	0 1 6	12 CHAR.	
CHG1	3	0 1 7	12 CHAR.	
CHG2	3	0 1 8	12 CHAR.	
CHANGE	3	0 1 9	12 CHAR.	
TOTAL	3	0 2 0	12 CHAR.	
R/A	3	0 2 1	12 CHAR.	
P/O	3	0 2 2	12 CHAR.	
RCPT MESGE 1	4	0 0 1	21 CHAR.	- RECEIPT
RCPT MESGE 2	4	0 0 2	21 CHAR.	FRONT
RCPT MESGE 3	4	0 0 3	21 CHAR.	MESSAGE

B. DESCRIPTOR PROGRAMMING EXAMPLES

1. DEPT.1 = APPLE

| 1 | 0 | 0 | 1 |---| P/O |

| 0 6 5 |—| 0 8 0 |—| 0 8 0 |—| 0 7 6 |—| 0 6 9 |—| CASH/TEND |

2. PLU 10 = ORANGE

| 2 | 0 | 1 | 0 |---| P/O |—| 9 9 9 |—| 0 7 9 |—| 0 8 2 |—| 0 6 5 |—| 0 7 8 |—| 0 7 1 |

| 9 9 9 |—| 0 6 9 |—| CASE/TEND |

3. CLERK4 = MR.JOHN

| 3 | 0 | 0 | 4 |---| P/O |—| 0 7 7 |—| 0 8 2 |—| 0 4 6 |—| 0 7 4 |—| 0 7 9 |—| 0 7 2 |

| 0 7 8 |—| CASE/TEND |
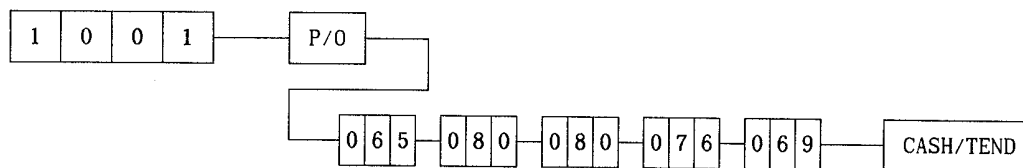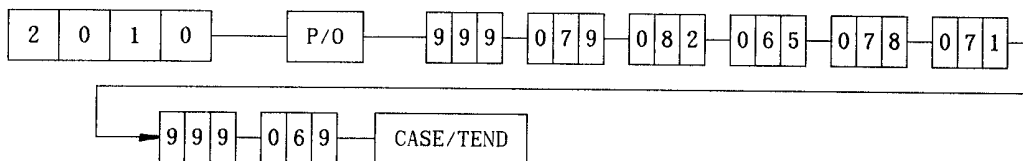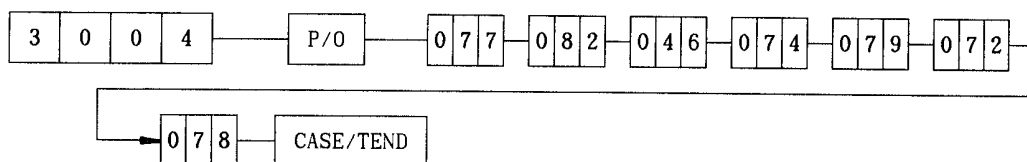
4. RECEIPT FRONT MESSAGE LINE 1 = Thank You

| 4 | 0 | 0 | 1 |---| P/O |—| 0 3 2 |—| 0 3 2 |—| 9 9 9 |—| 0 8 4 |—| 9 9 9 |—| 1 0 4 |

| 9 9 9 |—| 0 9 7 |—| 9 9 9 |—| 1 1 0 |—| 9 9 9 |—| 1 0 7 |—| 9 9 9 |—| 0 3 2 |—| 9 9 9 |

| 0 8 9 |—| 9 9 9 |—| 1 1 1 |—| 9 9 9 |—| 1 1 7 |—| CASE/TEND |
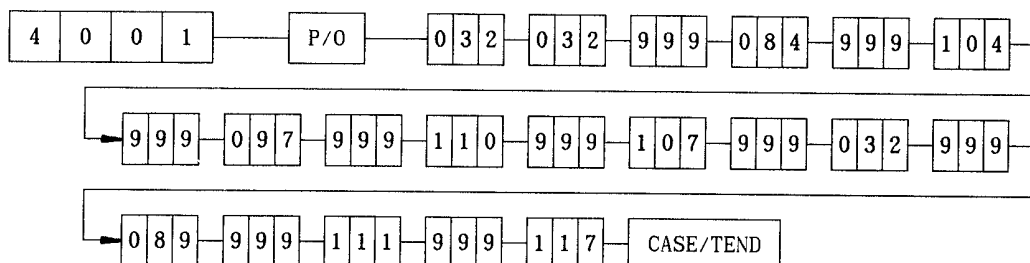
C. DESCRIPTOR PROGRAMMING SCAN

```
┌──────────┐     ┌──────┐
│ CASH/TEND├─────┤ P/O  │
└──────────┘     └──────┘
```

```
DATE 12.25.'93    SUN

------------------------
    DESCRIPTOR SCAN
------------------------
DEPT.1: APPLE                 ─────── Dept. descriptor
------------------------
PLU 10: ORANGE                ─────── PLU descriptor
------------------------
CLERK1 :                      ─────── Clerk descriptor
CLERK2 :
CLERK3 :
CLERK4 : MR.JOHN
GROUP0 :                      ─────── Dept. group descriptor
GROUP1 :
GROUP2 :
GROUP3 :
GROUP4 :
GROUP5 :
GROUP6 :
GROUP7 :
GROUP8 :
GROUP9 :
CASH   :                      ─────── Function key descriptor
CHECK  :
CHG1   :
CHG2   :
CHANGE :
TOTAL  :
R/A    :
P/O    :
------------------------
  Thank  You                  ─────── Receipt front message
  ER-4615/40                            descriptor
  Dot Matrix Printer
------------------------


CLERK 0     NO.000009         ─────── Receipt consecutive NO.
TIME 12:19      9999          ─────── Register NO.
```

✻ CHARACTER CODE TABLE ✻

CHAR	á	à	â	ä	å	Ä	Å	é	è	ê
CODE	001	002	003	004	005	006	007	008	009	010
CHAR	ë	É	í	ì	î	ï	í	ñ	Ñ	ó
CODE	011	012	013	014	015	016	017	018	019	020
CHAR	ò	ô	ö	Ö	Ú	ù	ü	û	Ü	æ
CODE	021	022	023	024	025	026	027	028	029	030
CHAR	β	SPACE	!	～	#	$	℀	&	´	(
CODE	031	032	033	034	035	036	037	038	039	040
CHAR	)	*	+	,	—	.	/	0	1	2
CODE	041	042	043	044	045	046	047	048	049	050
CHAR	3	4	5	6	7	8	9	:	;	<
CODE	051	052	053	054	055	056	057	058	059	060
CHAR	=	>	?	@	A	B	C	D	E	F
CODE	061	062	063	064	065	066	067	068	069	070
CHAR	G	H	I	J	K	L	M	N	O	P
CODE	071	072	073	074	075	076	077	078	079	080
CHAR	Q	R	S	T	U	V	W	X	Y	Z
CODE	081	082	083	084	085	086	087	088	089	090
CHAR	Æ	₨	ƒ	¢	£	Ft	a	b	c	d
CODE	091	092	093	094	095	096	097	098	099	100
CHAR	e	f	g	h	i	j	k	l	m	n
CODE	101	102	103	104	105	106	107	108	109	110
CHAR	o	p	q	r	s	t	u	v	w	x
CODE	111	112	113	114	115	116	117	118	119	120
CHAR	y	z
CODE	121	122

CHAR	DOUBLE WIDE
CODE	999

✻ Double wide character must be preceded "999", and count as two character.

* DEPARTMENT PROGRAMMING *

Department programming takes place in two steps. The first step programs the department status, the second step programs the preset price or HALO(HIGH AMOUNT LOCK OUT).

Sales registered into hash departments do not add to the grand total, gross sales total and may also be programmed not to add to the net sales total.
Hash departments add to the total of each sale and therefore are included in all medias and drawer totals. Like normal departments, hash departments also add into a total of all hash departments and PLUs on the financial report.

Typically hash departments may be used to register items such as delivery charges or lottery sales that a merchant may no want to appear in accumulated sales totals.
SYSTEM OPTION ADDRESS 23 VALUE 'b' (Page 39) is used to select whether hash department totals add to the net sales totals.

A. DEPARTMENT STATUS PROGRAMMING

* PROGRAMMING OPTION

PROGRAMMING OPTION		VALUE	OPTION DIGIT
Department GROUP NO.		0 - 9	N 0
Resettable counter, counter will increase Nonresettable counter, counter will increase Resettable counter, counter will decrease Nonresettable counter, counter will decrease		0 1 2 3	N 1
HASH department feature	a	YES = 1 NO = 0	N 2 = a + b + c
GALLONAGE department feature	b	YES = 2 NO = 0	
NON-ADD NUMBER compulsory	c	YES = 4 NO = 0	
Department is NEGATIVE	a	YES = 1 NO = 0	N 3 = a + b + c
Department is SINGLE ITEM	b	YES = 2 NO = 0	
VALIDATION compulsory	c	YES = 4 NO = 0	
Department is OPEN(HALO) DEPARTMENT Department is PRESET DEPARTMENT Department is DISABLED		0 1 2	N 4
Department is not taxable Department is taxable by VAT 1 Department is taxable by VAT 2 Department is taxable by VAT 3 Department is taxable by VAT 4 Department is taxable by VAT 1 & 3		0 1 2 3 4 5	N 5

* PROGRAMMING

1. Enter the option value of each department and press the " SUBTOTAL " key.

2. Depress each department key to be assigned that status.

3. Depress the " CASH/TEND " key to complete department status programming.

If the status is to be assigned to one department only, simply depress that department key, followed by the " CASH/TEND " key to complete status programming.

```
┌────┐ ┌────┐ ┌────┐ ┌────┐ ┌────┐ ┌────┐        ┌──────────┐         ┌────────────┐       ┌───────────┐
│ N0 ├─┤ N1 ├─┤ N2 ├─┤ N3 ├─┤ N4 ├─│ N5 ├────────│ SUBTOTAL ├─────────│ DEPARTMENT ├──────▶│ CASH/TEND │
└────┘ └────┘ └────┘ └────┘ └────┘ └────┘        └──────────┘         └────────────┘       └───────────┘
                                                            Press one to 15 DEPT.s
                    STATUS                                  (ER-4640 : 40 DEPT.s)           EXIT
                                                                   │
                                                            ┌────────────┐
                                                            │ DEPARTMENT │
                                                            └────────────┘
                                                                   ·
                                                                   ·
                                                                   ·
                                                            ┌────────────┐
                                                            │ DEPARTMENT ├───
                                                            └────────────┘
```
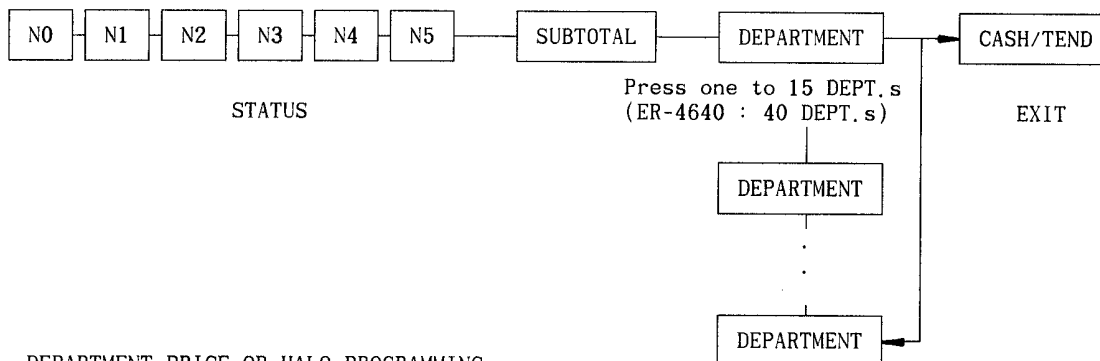
B. DEPARTMENT PRICE OR HALO PROGRAMMING

To establish a preset price or High Amount Lock Out (HALO), enter the amount and depress the appropriate department key.
A zero amount entry for open departments will set the HALO at the maximum seven digits (99999.99) for standard departments, and five digits (99.999) for gallonage departments.

Zero preset departments are allowed.

1. Enter the amount and depress the department to be programmed.

2. If you want to enter the activity counter, enter the activity counter (0 - 9999), and depress the " R/A " key.

    NOTE : If you do not wish to make the activity counter, You can skip the STEP 2.

3. Depress the " CASH/TEND " key to complete department price or HALO programming.

```
┌─┬─┬─┬─┬─┬─┬─┐        ┌────────────┐       ┌─┬─┬─┬─┐        ┌─────┐      ┌───────────┐
│ │ │ │ │ │ │ ├────────│ DEPARTMENT ├──────▶│ │ │ │ ├────────│ R/A ├──────│ CASH/TEND │
└─┴─┴─┴─┴─┴─┴─┘        └────────────┘       └─┴─┴─┴─┘        └─────┘      └───────────┘
                    Press one to 15 DEPT.s
   PRESET PRICE      (ER-4640 : 40 DEPT.s)   ACTIVITY                     EXIT
   or HALO                  │                COUNTER
                     ┌────────────┐
                     │ DEPARTMENT │
                     └────────────┘
                            ·
                            ·
                            ·
                     ┌────────────┐
                     │ DEPARTMENT ├───                      * R/A = RECD ACCT
                     └────────────┘
```
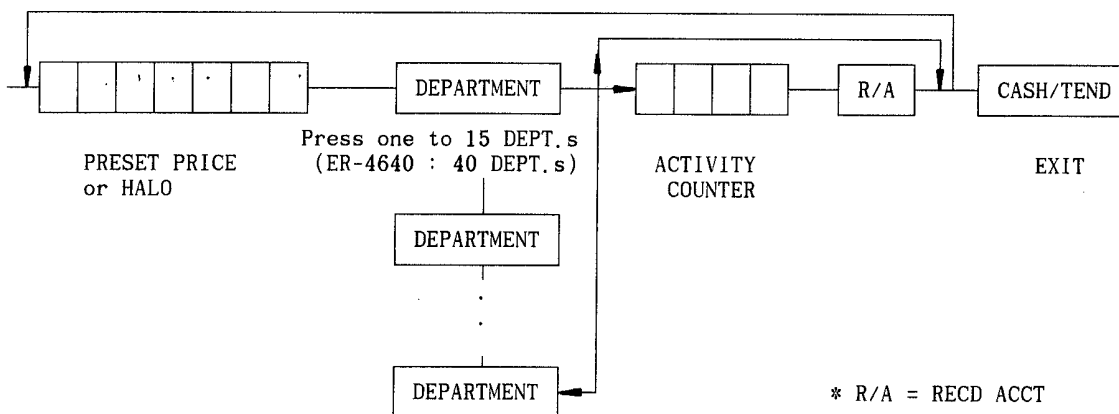
C. DEPARTMENT PROGRAMMING EXAMPLES

1) DEPARTMENT STATUS PROGRAMMING

EX1) Program 'DEPT 1' and 'DEPT 2'. 'DEPT 1' is VAT 1 and also 'DEPT 2' is VAT 1.
    1. Enter numeric ' 1 ' and press the 'SUBTOTAL' key.
    2. Depress the 'DEPT 1' key and 'DEPT 2' key.
    3. Depress the 'CASH/TEND' key.

EX2) Program 'DEPT 3' so it is a PRESET department and is VAT 2.
    1. Enter numeric ' 1 2 ' and press the 'SUBTOTAL' key.
    2. Depress the 'DEPT 3' key and press the 'CASH/TEND' key.

EX3) Program 'DEPT 4' so it is a PRESET and SINGLE ITEM department and VAT 3.
    1. Enter numeric ' 2 1 3 ' and press the 'SUBTOTAL' key.
    2. Depress the 'DEPT 4' key and press the 'CASH/TEND' key.

EX4) Program 'DEPT 5' so it is a NEGATIVE PRESET and NON TAX with and nonresettable
    counter increment status.
    1. Enter numeric ' 1 0 1 1 0 ' and press the 'SUBTOTAL' key.
    2. Depress the 'DEPT 5' key and press the 'CASH/TEND' key.

EX5) Program 'DEPT 6' so it is PRESET AND VAT 1 and VAT 3.
    1. Enter numeric ' 1 5 ' and press the 'SUBTOTAL' key.
    2. Depress the 'DEPT 6' key and press the 'CASH/TEND' key.

EX6) Program 'DEPT 10' so it is a GALLONAGE department and NON TAX.
    1. Enter numeric ' 2 0 0 0 ' and press the 'SUBTOTAL' key.
    2. Depress the 'DEPT 10' key and press the 'CASH/TEND' key.

EX7) Program 'DEPT 15' so it is accumulated in department GROUP 7 and HASH feature,
    PRESET and VAT 4.
    1. Enter numeric ' 7 0 1 0 1 4 ' and press the 'SUBTOTAL' key.
    2. Depress the 'DEPT 15' key and press the 'CASH/TEND' key.

2) DEPARTMENT PRICE OR HALO PROGRAMMING

EX1) Program 'DEPT 1' and 'DEPT 2'. 'DEPT 1' has a *99.99 HALO and also 'DEPT 2' has
    a *99.99 HALO.
    1. Enter numeric ' 9 9 9 9 ' and press the 'DEPT 1' key and 'DEPT 2' key.
    2. Depress the 'CASH/TEND' key

EX2) Program 'DEPT 3', 'DEPT 6' and 'DEPT 15'. These departments have a price *10.00.
    1. Enter numeric ' 1 0 0 0 ' and press the 'DEPT 3' key,
       'DEPT 6' and 'DEPT 15' key
    2. Depress the 'CASH/TEND' key.

EX3) Program 'DEPT 4' so it has a price *15.00.
    1. Enter numeric ' 1 5 0 0 ' and press the 'DEPT 4' key.
    2. Depress the 'CASH/TEND' key

EX4) Program 'DEPT 5' so it has a price *1.00 and activity count is 50.
    Counter increment status.
    1. Enter numeric ' 1 0 0 ' and press the 'DEPT 5' key.
    2. Enter activity counter ' 5 0 ' and press the 'R/A' key. (R/A = RECD ACCT)
    3. Depress the 'CASH/TEND' key

EX5) Program 'DEPT 10' so it has a price *1.399(Gallonage price).
    1. Enter numeric ' 1 . 3 9 9 ' and press the 'DEPT 10' key.
    2. Depress the 'CASH/TEND' key

D. DEPARTMENT PROGRAMMING SCAN

1. Depress the " CASH/TEND " key.

2. Depress the first " DEPARTMENT " key you want scan.

3. Depress the last " DEPARTMENT " key you want scan.

   # If you only want one programming printing out, Depress "DEPARTMENT" key twice.

NOTE : THE LAST DEPARTMENT MUST BE GREATER THAN THE FIRST DEPARTMENT.

```
DATE 12.25.'93    SUN

XXXXXXXXXXXXXXXXXXXXX
      DEPT SCAN
XXXXXXXXXXXXXXXXXXXXX
DEPT.1: APPLE          ——————— Dept.1 descriptor
  STAT X1         1    ——————— Status : Taxable by tax 1
  CNT +        0.00    ——————— Activity counter
  HALO AMT    099.99   ——————— HALO amount
DEPT.2
  STAT X1         1
  CNT +        0.00
  HALO AMT    099.99
DEPT.3                       Open dept. ———
  STAT X2        12
  CNT +        0.00
  PRESET AMT   010.00   ——————— Preset price amount
DEPT.4
  STAT X3       213       Gallonage dept.——
  CNT +        0.00         price 1.399
  PRESET AMT   015.00
DEPT.5
  STAT        10110
  CNT +       50.00    ——————— Activity counter 50
  PRESET AMT   -1.00
DEPT.6
  STAT X1&3      15    ——————— Taxable by
  CNT +        0.00              tax 1 and tax 3
  PRESET AMT   010.00
DEPT.7                       Hash dept.——
```

```
  CNT +        0.00
  HALO AMT     00.00
DEPT.10
  STAT         2000
  CNT +        0.00
  <GAL> AMT    01.399
DEPT.11
  STAT            0
  CNT +        0.00
```

```
  HALO AMT     00.00
DEPT.15
  STAT <HASH> X4
                701014
  CNT +        0.00
  PRESET AMT   010.00

CLERK 0     NO.000010
TIME 12:24        9999
```

* PLU PROGRAMMING *

PLU status programming offers the same general feature as department programming.

Hash plu's operation is the same as hash department operation.
Refer to hash department notes.

A. PLU PROGRAMMING

   * PROGRAMMING OPTION

PROGRAMMING OPTION		VALUE	OPTION DIGIT
Resettable counter, counter will increase Nonresettable counter, counter will increase Resettable counter, counter will decrease Nonresettable counter, counter will decrease		0 1 2 3	N 1
HASH PLU feature	a	YES = 1 NO = 0	N 2 = a + b + c
GALLONAGE PLU feature	b	YES = 2 NO = 0	
NON-ADD NUMBER compulsory	c	YES = 4 NO = 0	
PLU is NEGATIVE	a	YES = 1 NO = 0	N 3 = a + b + c
PLU is SINGLE ITEM	b	YES = 2 NO = 0	
VALIDATION compulsory	c	YES = 4 NO = 0	
PLU is OPEN(HALO) PLU PLU is PRESET PLU PLU is DISABLED		0 1 2	N 4
PLU is not taxable PLU is taxable by VAT 1 PLU is taxable by VAT 2 PLU is taxable by VAT 3 PLU is taxable by VAT 4 PLU is taxable by VAT 1 & 3		0 1 2 3 4 5	N 5

* PROGRAMMING

1. Enter A plu number (1 - 300) to be programmed , depress the " PLU " key.
   Or
   enter the number of the beginning plu of the range to be programmed, depress " PLU "
   key, and the number of the end plu in the range being programmed, depress " PLU "
   key.

2. Enter the status (up to 5 digits), and depress the linked department key, or enter
   the price (up to 7 digits), and press the " X/TIME " key.

3. If you want to enter the activity counter, enter the activity counter(0 - 9999), and
   depress the " R/A " key.

   NOTE : If you do not wish to make the activity counter, You can skip the STEP 3.

4. Depress the " CASH/TEND " key to complete plu programming.

NOTE : In order to program a single PLU, enter one number only, (Skip the "TO" PLU ent-
       ry). Followed by the PLU key, as the first step in the procedure.

* R/A = RECD ACCT

- 29 -
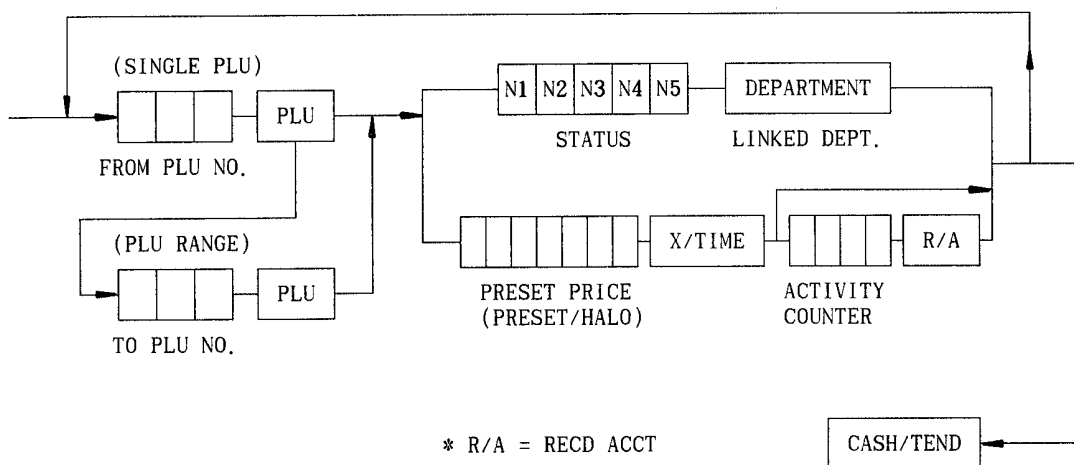
B. PLU PROGRAMMING EXAMPLES

   IMPORTANT : IF PLU IS NOT LINKED TO DEPARTMENT, PLU REGISTRATION IS NOT ALLOWED.

   EX1) Program 'PLU 10' so it is VAT 1 and has a *99.99 HALO and linked to 'DEPT 1'.
        1. Depress numeric ' 1 0 ' and 'PLU' key.
        2. Enter numeric ' 1 ' and press 'DEPT 1' key for status.
        3. Enter numeric ' 9 9 9 9 ' and press 'X/TIME' key for HALO amount.
        4. Depress the 'CASH/TEND' key.

   EX2) Program 'PLU 20' so it is VAT 2 and has a PRESET price *10.00 and linked to
        'DEPT 2'.
        1. Depress numeric ' 2 0 ' and 'PLU' key.
        2. Enter numeric ' 1 2 ' and press 'DEPT 2' key for status.
        3. Enter numeric ' 1 0 0 0 ' and press 'X/TIME' key for PRESET amount.
        4. Depress the 'CASH/TEND' key.

   EX3) Program 'PLU 30' so it is VAT 3, SINGLE ITEM and has a PRESET price *15.00 and
        linked to 'DEPT 3'.
        1. Depress numeric ' 3 0 ' and 'PLU' key.
        2. Enter numeric ' 2 1 3 ' and press 'DEPT 3' key for status.
        3. Enter numeric ' 1 5 0 0 ' and press 'X/TIME' key for PRESET amount.
        4. Depress the 'CASH/TEND' key.

   EX4) Program 'PLU 40' so it is VAT 4 and has a PRESET price *1.00 and linked to
        'DEPT 4', initial activity counter is 100 with status nonresettable/decrement.
        1. Depress numeric ' 4 0 ' and 'PLU' key.
        2. Enter numeric ' 3 0 0 1 4 ' and press 'DEPT 4' key for status.
        3. Enter numeric ' 1 0 0 ' and press 'X/TIME' key for PRESET amount,
           and enter numeric ' 1 0 0 ' and press 'R/A' key for activity counter.
        4. Depress the 'CASH/TEND' key. (R/A = RECD ACCT)

   EX5) Program 'PLU 50' so it is VAT 1 and has a PRESET price *10.00 and linked to
        'DEPT 6'.
        1. Depress numeric ' 5 0 ' and 'PLU' key.
        2. Enter numeric ' 1 1 ' and press 'DEPT 6' key for status.
        3. Enter numeric ' 1 0 0 0 ' and press 'X/TIME' key for preset amount.
        4. Depress the 'CASH/TEND' key.

   EX6) Program 'PLU 100' so it is VAT 1 and has a PRESET price *5.00 and linked to
        'DEPT 6'.
        1. Depress numeric ' 1 0 0 ' and 'PLU' key.
        2. Enter numeric ' 1 1 ' and press 'DEPT 6' key for status.
        3. Enter numeric ' 5 0 0 ' and press 'X/TIME' key for preset amount.
        4. Depress the 'CASH/TEND' key.

   EX7) Link 'PLU 100' to 'PLU 50'.
        (Refer to next page ' D. PLU LINK PROGRAMMING'.)
        1. Enter numeric ' 5 0 ' and press 'PLU' key.
        2. Enter numeric ' 1 0 0 ' and press '#/NS' key.
        3. Depress the 'CASH/TEND' key.

C. PLU PROGRAMMING SCAN

1. Depress the " CASH/TEND " key.

2. Enter the number of the first PLU you want scan, and depress the " PLU " key.

3. Enter the number of the last PLU you want scan, and depress the " PLU " key.

NOTE : THE LAST PLU'S NUMBER MUST BE GREATER THAN THE FIRST PLU'S NUMBER.

```
┌──────────┐   ┌─┬─┬─┐   ┌─────┐   ┌─┬─┬─┐   ┌─────┐
│CASH/TEND │───┤ │ │ ├───┤ PLU ├───┤ │ │ ├───┤ PLU │
└──────────┘   └─┴─┴─┘   └─────┘   └─┴─┴─┘   └─────┘
              first PLU No.        last PLU No.
```
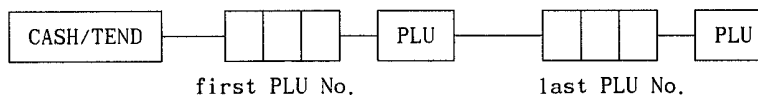
```
DATE 12.25.'93    SUN


XXXXXXXXXXXXXXXXXXXXXX
       PLU SCAN
XXXXXXXXXXXXXXXXXXXXXX
PLU 10: ORANGE              ──────  PLU NO. & descriptor
 LINKED DEPT        1       ──────  Linked to dept. 1
 STAT X1            1       ──────  Status
 CNT +          0.00        ──────  Activity counter
 HALO AMT      099.99
PLU 20
 LINKED DEPT        2
 STAT X2           12            Link PLU NO. 100  ──────
 CNT +          0.00
 PRESET AMT    010.00
PLU 30
 LINKED DEPT        3
 STAT X3          213
 CNT +          0.00
 PRESET AMT    015.00
PLU 40
 LINKED DEPT        4
 STAT X4        30014
 CNT -         100.00        ──────  Activity counter 100
 PRESET AMT     01.00                and will decrease
```

```
PLU 50
 CHAIN PLU 100
 LINKED DEPT        6
 STAT X1           11
 CNT +          0.00
 PRESET AMT    010.00
PLU 100
 LINKED DEPT        6
 STAT X1           11
 CNT +          0.00
 PRESET AMT     05.00

CLERK 0       NO.000012
TIME 12:28         9999
```

D. PLU LINK PROGRAMMING

The following procedure is used to link two or more PLUs.
The second PLU will follow automatically when first is registered.

```
          ┌─────────────────────────────────────────┐
          │                                         │
      ┌───┼───┬───┐   ┌─────┐   ┌───┬───┬───┐   ┌──────┐ │  ┌───────────┐
      │ X │ X │ X │───│ PLU │───│ X │ X │ X │───│ #/NS │─┴──│ CASH/TEND │
      └───┴───┴───┘   └─────┘   └───┴───┴───┘   └──────┘    └───────────┘
      PLU NO.(A)                PLU NO. (B)
```

Link (A) PLU to (B) PLU
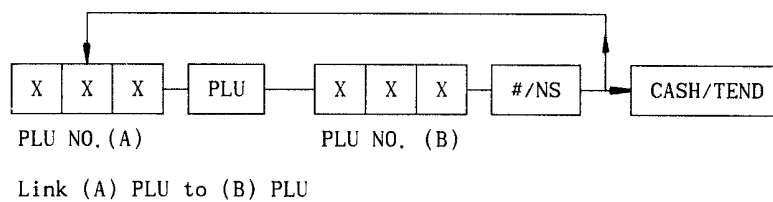
E. REMOVING OR DELETING A PLU

In order to "de-activate" a PLU, or remove its status and department link.

Deleted or inactivated plus will not be allowed to register.

1. Enter the PLU number(1 - 300), and press " PLU " key.

2. Depress the " VOID " key.

```
┌───┬───┬───┐       ┌─────┐       ┌──────┐
│ X │ X │ X │───────│ PLU │───────│ VOID │
└───┴───┴───┘       └─────┘       └──────┘
```

NOTE : PLU'S WITH A TOTAL MAY NOT BE MADE VOID.
       TAKE A " Z MODE " PLU REPORT BEFORE VOIDING ANY PLU.

* % KEY PROGRAMMING *

ER-4615 has two % keys (% 1 and % 2) and ER-4640 has four % keys (% 1, % 2, % 3, % 4).

These keys can be programmed as follows :

- Preset percentage discount or surcharge keys.
  or
- Preset amount discount keys.
  or
- Manual entry amount discount(COUPON) keys.
  or
- COUPON 2 keys. @

A. PERCENT KEY PROGRAMMING

  * PROGRAMMING STATUS

PROGRAMMING OPTION		VALUE		OPTION DIGIT
COUPON 2 feature		YES = 1 NO = 0		N 1
Discount / surcharge is	POSITIVE NEGATIVE	a	1 0	N 2
	OPEN PRESET	b	2 0	= a + b
Discount / surcharge is	SALE ITEM	a	1 0	N 3
	AMOUNT(COUPON) PERCENTAGE	b	2 0	= a + b + c
	INACTIVE ACTIVE	c	4 0	

NOTE : @ COUPON 2 FEATURE : REGISTRATION FOR THIS COUPON WILL AFFECT THE COUPON TOTA-
        LIZERS AS THE COUPON AMOUNT.
        THIS MEANS THAT THE REGISTERED COUPON AMOUNT IS NOT DEDUCTED FROM THE DEPARTM-
        ENT,PLU OR GROSS TOTALIZER, BUT FROM THE NET TOTALIZER ONLY.

        IF THE % KEY STATUS = 002 OR 022, IT WILL FUNCTION AS A COUPON KEY. ALSO, IF
        THE VALUE FOR N2 (DIGIT 2) IS 1 OR 3, THEN VALUES FOR N3(DIGIT 3) OF 2 AND 3
        ARE NOT ALLOWED.

  * PROGRAMMING

  1. Enter the " % " key to be programmed.

  2. Enter the three digits % status from the table above and depress the " SUBTOTAL "
     key.
  3. Enter the percentage preset or HALO (up to 4 digits/decimal fixed at two places),
     and depress the " CASH/TEND " key.

     EX) PERCENT RATE : 10 % would be 1 0 0 0
                         5.6 % would be   5 6 0

```
┌─────┐        ┌──┬──┬──┐ ┌──────────┐ ┌──┬──┬──┬──┐ ┌───────────┐
│  %  ├────────┤N1│N2│N3├─┤ SUBTOTAL ├─┤  │  │  │  ├─┤ CASH/TEND │
└─────┘        └──┴──┴──┘ └──────────┘ └──┴──┴──┴──┘ └───────────┘
                  STATUS                  4-DIGITS
  ER-4615 (% 1 - % 2)              PERCENT / AMOUNT or HALO
  ER-4640 (% 1 - % 4)
```
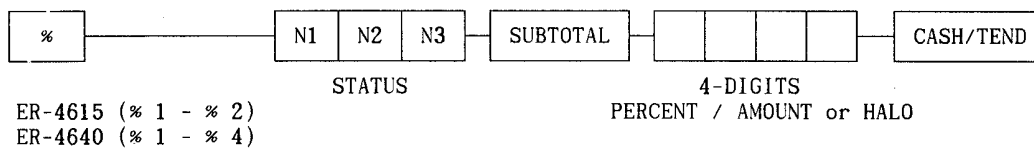
B. PERCENT CALCULATION ROUNDING FACTOR

   Refer to SYSTEM OPTION ADDRESS 29 (Page 40).

* CASH/TEND KEY PROGRAMMING

   * PROGRAMMING STATUS

PROGRAMMING OPTION		VALUE	OPTION DIGIT
Amount tender and validation are not compulsory on cash tender, and under tender is allowed.	a	0	
Amount tender is compulsory on cash tender.	b	1	N 1
Under tendering is not allowed	c	2	= a+b+c+d
Validation is compulsory	d	4	

* PROGRAMMING

1. Depress the " CASH/TEND " key.

2. Enter the desired status for option N1 from the list above.
   Depress the " SUBTOTAL " key.

3. To finalize the CASH/TEND key programming, depress the "CASH/TEND " key.

```
┌───────────┐   ┌────┐   ┌──────────┐   ┌───────────┐
│ CASH/TEND ├───┤ N1 ├───┤ SUBTOTAL ├───┤ CASH/TEND │
└───────────┘   └────┘   └──────────┘   └───────────┘
```
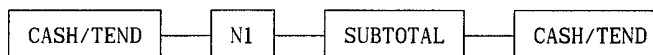
* CHECK KEY PROGRAMMING *

* PROGRAMMING STATUS

PROGRAMMING OPTION		VALUE	OPTION DIGIT
Amount tender is not compulsory on check tender, and under tender is allowed.	a	0	`N 1`
Amount tender is compulsory on check tender.	b	1	= a + b + c
Under tendering is not allowed	c	2	

* PROGRAMMING

1. Depress the " CHECK " key.

2. Enter the first HALO amount (0 - 999999, 0 for no HALO) for check tender allowed.
   Press the " #/NS " key.

3. Enter the second HALO amount (0 - 999999, 0 for no HALO) for over tendering.
   Press the " X/TIME " key.

4. Enter the desired status for options N1 from the lists above.
   Depress the " CHECK " key.

```
┌───────┐   ┌─┬─┬─┬─┬─┬─┐   ┌──────┐   ┌─┬─┬─┬─┬─┬─┐   ┌────────┐   ┌────┐   ┌───────┐
│ CHECK ├───┤ │ │ │ │ │ ├───┤ #/NS ├───┤ │ │ │ │ │ ├───┤ X/TIME ├───┤ N1 ├───┤ CHECK │
└───────┘   └─┴─┴─┴─┴─┴─┘   └──────┘   └─┴─┴─┴─┴─┴─┘   └────────┘   └────┘   └───────┘
            the First HALO             the Second HALO
```
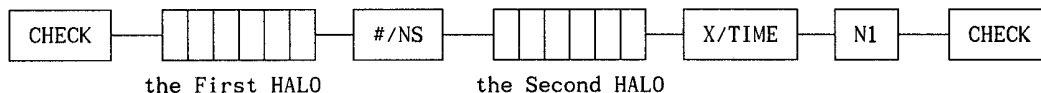
* CHARGE 1 & 2 KEY PROGRAMMING *

* PROGRAMMING STATUS

PROGRAMMING OPTION		VALUE	OPTION DIGIT
Non-add number entry is not compulsory on charge tender	a	0	`N 1`
Non-add number entry is compulsory on charge tender	b	1	= a + b

* PROGRAMMING

1. Depress the " CHARGE " key to be programmed.

2. Enter the HALO amount (0 - 999999, 0 for no HALO)
   for charge tender allowed. Press the " #/NS " key.

3. Enter the desired status for options N1
   from the lists above. Depress " SUBTOTAL " key.

4. Depress the " CHARGE " key previous entered.

```
┌────────┐   ┌─┬─┬─┬─┬─┬─┐
│ CHARGE ├───┤ │ │ │ │ │ ├──┐
└────────┘   └─┴─┴─┴─┴─┴─┘  │
┌───────────────────────────┘
│  ┌──────┐   ┌────┐   ┌──────────┐
└──┤ #/NS ├───┤ N1 ├───┤ SUBTOTAL ├──┐
   └──────┘   └────┘   └──────────┘  │
┌────────────────────────────────────┘
│  ┌────────┐
└──┤ CHARGE │
   └────────┘
```
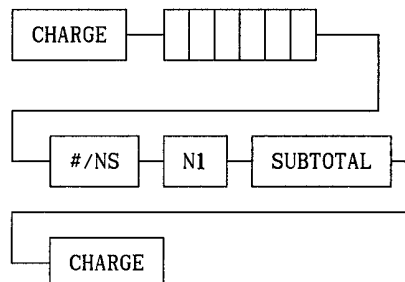
* PRESET CASH KEY PROGRAMMING *

1. Depress the " PRESET CASH " key to be programmed.

2. Enter the desired amount(0 - 999999) for preset cash.

3. Depress the " PRESET CASH " key previous entered.

```
┌──────────────┐   ┌─┬─┬─┬─┬─┬─┐   ┌──────────────┐
│ PRESET CASH  ├───┤ │ │ │ │ │ ├───┤ PRESET CASH  │
└──────────────┘   └─┴─┴─┴─┴─┴─┘   └──────────────┘
                       Amount
```
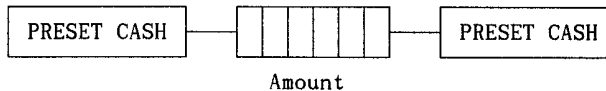
* CASH IN DRAWER LIMIT PROGRAMMING *

1. Enter total amount of cash and checks allowed to be in the cash drawer at one time.

2. Depress the " #/NS " key.

3. Depress the " CASH/TEND " key.

```
┌─┬─┬─┬─┬─┬─┬─┐   ┌────────┐   ┌────────────┐
│ │ │ │ │ │ │ ├───┤  #/NS  ├───┤ CASH/TEND  │
└─┴─┴─┴─┴─┴─┴─┘   └────────┘   └────────────┘
Limit total amount(0 - 9999999)
```
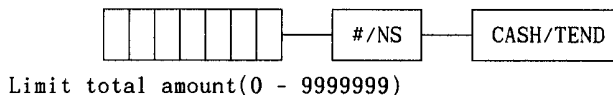
NOTE : IF THE CASH-IN-DRAWER LIMIT IS EXCEEDED, AN ERROR TONE WILL SOUND.
       THE CLEAR KEY WILL STOP THE ERROR TONE.

* CURRENCY CONVERSION KEY PROGRAMMING *

SETTING THE EXCHANGE RATE :

The foreign exchange rate is determined based on a six digit code entered during this
programming step.
Numbers N1 - N5 contain the numeric value of the exchange rate.
N6 sets the decimal point position(0-5).

```
N1  N2  N3  N4  N5      N6
────────────────        ┌─┐
          │             └┴──────────── DECIMAL POSITION
          │                            ( from the right)
          └── VALUE
```
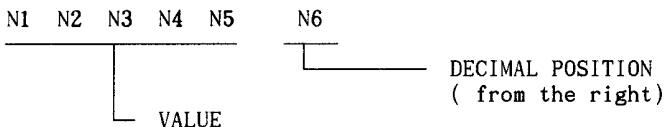
1. Depress the " CONV " key to be programmed.

2. Enter the six digit rate code, press the " SUBTOTAL " key.

3. Press the same " CONV " key.

EX) £1.00 = 2.4455DM
            The program code for this exchange rate would be 2 4 5 5 5 4 , giving a
            a numeric value of 24455 with four numbers after the decimal point.

```
┌──────┐   ┌─┬─┬─┬─┬─┬─┐   ┌──────────┐   ┌──────┐
│ CONV ├───┤2│4│4│5│5│4├───┤ SUBTOTAL ├───┤ CONV │
└──────┘   └─┴─┴─┴─┴─┴─┘   └──────────┘   └──────┘
            │
            └──────────── SET DECIMAL
```
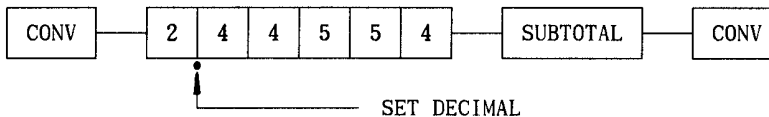
* SYSTEM OPTION PROGRAMMING *

1. Enter up to 2-digit address number, depress the " X/TIME " key.

2. Enter up to 2-digit status number, depress the " SUBTOTAL " key.

```
┌──┬──┐            ┌────────┐           ┌──┬──┐         ┌──────────┐
│  │  │────────────│ X/TIME │───────────│  │  │─────────│ SUBTOTAL │
└──┴──┘            └────────┘           └──┴──┘         └──────────┘
 Address                                 status
```
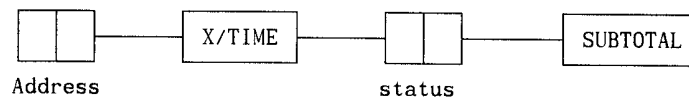
NOTE : ADDRESS 1 - 9 SHOULD NOT BE ENTERED 01 - 09, ONLY ENTER SINGLE DIGIT 1 - 9.
THE VALUE '0' IS DEFAULT STATUS.

ADDRESS	OPTION		VALUE	STATUS
1	Subtotal without tax will print on receipt and journal. Does not require depression of the SUBTOTAL key.	a	YES = 1 NO = 0	a
2	Single item total print.	a	YES = 0 NO = 1	a
3	Inhibit GRAND total print on financial report.	a	YES = 1 NO = 0	a
4	Skip media totals with zero activity on financial report.	a	YES = 0 NO = 1	a
5	Inhibit Time print on receipt and journal.	a	YES = 1 NO = 0	SUM = a+b+c
	Inhibit machine no. print on receipt and journal.	b	YES = 2 NO = 0	
	Inhibit Z report issuing counter print on receipt and journal.	c	YES = 4 NO = 0	
6	Inhibit Date print on receipt and journal.	a	YES = 1 NO = 0	SUM = a + b
	Inhibit consecutive no. print on receipt and journal.	b	YES = 2 NO = 0	
7	The date format will print as: Month, Day, and year = Day, Month, and year = Year, month, and day =	a	0 1 2	SUM = a + b
	Check validation amount is: Amount tendered = Amount of sale =	b	4 0	
8	Inhibit printing of positive department and PLU entries on journal. (Journal skip)	a	YES = 1 NO = 0	SUM = a + b
	Print PLUs and Dept.s with zero totals on report issuing.	b	YES = 2 NO = 0	

ADDRESS	OPTION		VALUE	STATUS
9	Tax symbol print for item.	a	YES = 0 NO = 1	SUM
	VAT PERCENT rate is printed when VAT break down.	b	YES = 2 NO = 0	= a+b+c
	NET SALE amount is printed by automatically VAT breakdown.	c	YES = 4 NO = 0	
10	Decimal for print and display: No decimal = Set at one places = Set at three places = Set at two places =	a	1 2 3 0	a
11	Print media totals on cashier report. (See a clerk report section)	a	YES = 1 NO = 0	a
12	Print sales % on Dept./PLU reports	a	YES = 1 NO = 0	a
13	Cash declaration is compulsory before taking x/z reports.	a	YES = 1 NO = 0	a
14	Voids are allowed in the 'X' control lock position only.	a	YES = 1 NO = 0	SUM
	Compulsory validation on Voids.	b	YES = 2 NO = 0	= a+b+c
	Allowed multiple validations and buffered receipt.	c	YES = 4 NO = 0	
15	Cancel function is allowed in the 'X' control lock position only.	a	YES = 1 NO = 0	a
16	Merchandise returns are allowed in the 'X' control lock position only.	a	YES = 1 NO = 0	SUM
	Merchandise returns require validation.	b	YES = 2 NO = 0	= a + b
17	% key operations are allowed in the 'X' control lock position only	a	YES = 1 NO = 0	SUM
	% key operations require validation.	b	YES = 2 NO = 0	= a + b
18	R/A, and P/O are allowed in the 'X' control lock position only	a	YES = 1 NO = 0	SUM
	R/A, P/O operations require validation.	b	YES = 2 NO = 0	= a + b

ADDRESS	OPTION		VALUE	STATUS
19	Consecutive number resets after Z1 financial report.	a	YES = 1 NO = 0	SUM
	Check key operations require validation.	b	YES = 2 NO = 0	= a + b
20	GRAND total resets after Z1 financial report.	a	YES = 1 NO = 0	SUM
	Charge 1 operations require validation.	b	YES = 2 NO = 0	= a+b+c
	Charge 2 operations require validation.	c	YES = 4 NO = 0	
21	Negative and zero sales total are not allowed.	a	YES = 1 NO = 0	a
22	Disable No sale function.	a	YES = 1 NO = 0	SUM
	Inhibit No sales after non-add number entry.	b	YES = 2 NO = 0	= a + b
23	Validation is compulsory with Add check operation.	a	YES = 1 NO = 0	SUM
	HASH Department & PLU operations add to NET sales.	b	YES = 2 NO = 0	= a + b
24	Compulsory drawer is not activated.	a	YES = 1 NO = 0	a
25	Enter the HALO (number of digits) for the total amount allowed for R/A and P/O transactions. 0.01 - 0.09 = 0.01 - 0.99 = 0.01 - 9.99 = 0.01 - 99.99 = 0.01 - 999.99 = 0.01 - 9999.99 = 0.01 - 99999.99 =	a	 1 2 3 4 5 6 7	a
26	Clerks are Pop-up = Stay down =	a	1 0	SUM
	Secret sign-on code = Push button =	b	2 0	= a+b+c
	Cleak change allowed during registration =	c	YES = 4 NO = 0	

ADDRESS	O P T I O N		VALUE	STATUS
27	Inhibit check cashing feature.	a	YES = 1 NO = 0	SUM
	Check cashing allowed in the 'X' control lock position only.	b	YES = 2 NO = 0	= a + b
28	Select the currency logo Default = ■ Other logo (Refer to the page 23 "CODE TABLE ")	a	0 CODE	a
29	% and tax calculation will round up at 0.50 = always round up = always round down =	a	0 1 2	a
30	Rounding factor for split pricing and decimal multipli- cation calculation will round up at 0.50 = always round up = always round down =	a	0 1 2	a
31	Tax is figured by INCLUSIVE VAT. Tax is figured by EXCLUSIVE VAT.	a	0 1	a
32	Allow the post tender function.	a	YES = 1 NO = 0	a
33	Enforce Non-add number key entry at beginning of sale.	a	YES =1 NO = 0	a
34	Number of digits required for Non-add number entry. (0 allows any length, 1-7 digit)	a	0 1 - 7	a
35	Disable Department/PLU preset override.	a	YES = 1 NO = 0	a

36	European round is activated
	          0.00 - 0.02 = 0.00
	          0.03 - 0.07 = 0.05
	          0.08 - 0.09 = 0.10
		a	YES = 1
			NO = 0
				a

37	The date format in validation will print as :
	          Month - Date - Year =
	          Date - Month - Year =
	          Year - Month - Date =
		a	0
			1
			2
				a

38	Validation sensor is activated.	a	YES = 1 NO = 0	a
39	Only stamp will print on the receipt. = Both stamp and receipt front message will print on the receipt. = Only Receipt front message will print on the receipt. =	a	0 1 2	a

* PARAMETERS PROGRAM SCAN *

1. Press the " CASH/TEND " key.

2 Press the " SUBTOTAL " key.

```
┌──────────────┐      ┌──────────────┐
│  CASH/TEND   ├──────┤   SUBTOTAL   │
└──────────────┘      └──────────────┘
```

Sample receipt of parameter program scanning:

```
XXXXXXXXXXXXXXXXXXXXXX
   MISCELLANEOUS SCAN
XXXXXXXXXXXXXXXXXXXXXX
TAX1 RATE      10.000%
TAX2 RATE       8.000%
TAX3 RATE       6.000%
TAX4 RATE       5.000%
----------------------
% 1 RATE       -10.00%        ———— % 1 programming
% 1 STAT            0
% 2 COUPON AMT  -5.00         ———— % 2 key programming
% 2 STAT            2
% 3 RATE         5.00%   ┐
% 3 STAT           10    ├— ER-4640 Only
% 4 MINUS AMT   -5.00    ┘
% 4 STAT          100
----------------------
CASH STAT           0         ———— Cash key programming
CHK HALO1       ■0.00         ———— Check key first HALO programming
CHK HALO2       ■0.00         ———— Check key second HALO programming
CHECK STAT          0         ———— Check key status programming
CHG1 HALO       ■0.00         ———— Charge1 key programming
CHG1 STAT           0
CHG2 HALO       ■0.00
CHG2 STAT           0
DWR LIMIT AMT   ■0.00         ———— Cash in drawer limit amount
----------------------
CONV1 RATE    #2.4455         ———— Currency conversion key programming
CONV2 RATE     #0.00
----------------------
CLK1 CODE       12345         ———— Clerk secret code
CLK1 DRAWER         0         ———— Clerk drawer assignment
CLK2 CODE       23456
CLK2 DRAWER         0
CLK3 CODE       34567
CLK3 DRAWER         0
CLK4 CODE       45678
CLK4 DRAWER         0
```

Preset cash 1 amount ————

System options ————

```
----------------------
PRECASH1 AMT    ■5.00
PRECASH2 AMT   ■10.00
PRECASH3 AMT   ■20.00
----------------------
SYSTEM OPN 4        1
SYSTEM OPN 12       1
SYSTEM OPN 13       1
SYSTEM OPN 26       2
SYSTEM OPN 32       1
----------------------
TRAIN MD CODE   11111

CLERK 0     NO.000014
TIME 12:43       9999
```

INSTRUCTION TO THE OPERATIONS MANUAL

The operation manual is designed to show you how to operate ECR during normal use. The manual also has a section on gathering report and balancing the cash register.

The operation manual uses flow charts similar to those in the programming manual.
Each labeled box represents a key you should press to complete an operation.

Receipt tapes accompany some of the flow charts. These tapes will help you to interpret the receipts your machine issues.

Unless otherwise noted, the flow charts use the " CASH/TEND " key to finalize the sale. The majority of the flow charts assume the custom tenders the correct amount, so change calculation are skipped.

NOTE

> A cashier must be signed on before operation can take place. The register will not operate in register mode unless a clerk key has been signed on. This only requires that a clerk key be depressed in the 'REG' mode.
>
> To sign a clerk off, thereby displaying the "CLOSEd" message on the display, enter the " 0 " (zero) key followed by a depression of the " CLERK " key being signed off. This effectively disables the register until a clerk key is depressed to sign on.

```
┌───┐           ┌───────┐
│ 0 ├───────────┤ CLERK │      * CLERK SIGN OFF *
└───┘           └───────┘
              A, B, D or E
```

---
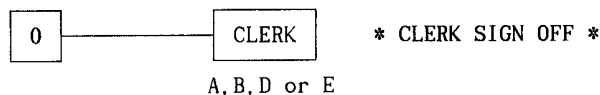
* ALL REGISTRATIONS ARE MADE IN THE " REG " OR " VOID " CONTROL LOCK POSITION.

* CLERK SING ON *

This ECR has two sign on method, the first is the push button sign on method and the second is the secret code sign on method.

A. PUSH BUTTON SIGN ON

Press one of the clerk keys (A,B,D,E) to start operation the cash register. `CLERK`

B. SECRET CODE SIGN ON

If ADDRESS 26 VALUE 'b' of SYSTEM OPTION PROGRAMMING (Page 39) is programmed, then a clerk secret code must be entered to start the operation.

The clerk secret code is programmed in clerk secret code programming. Enter the clerk secret code as follows, the code will not be showen.

```
┌───────┐                              ┌───────┐
│ CLERK ├──────(6 digits secret code)──┤ CLERK │
└───────┘                              └───────┘
```
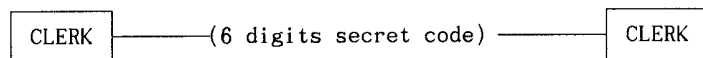
* According to the VALUE 'a' of ADDRESS 26, a clerk must be entered before each transaction And if ADDRESS 26 VALUE 'c' is programmed, clerk change will be allowed during registration.

* CLEARING AN ERROR CONDITION *

If the error tone is ringing, press

CLEAR

There are several ERROR prompt symbols. A prompt symbol appears on the left side of the
display when a mis-operation occurs or when a compulsory operations must be performed.
Refer to ' * DISPLAY SYMBOLS *' (Page 13).

* NO SALE OPERATIONS *

A no sale operation opens the cash drawer outside of a sale.

#/NS

* NON-ADD NUMBER ENTRIES *

The " #/NS " key can be used to enter up to seven digits.
This numeric entry will add to non-add numeric total.

☐—☐—☐—☐—☐—☐—☐— #/NS

```
DATE 12.25.'93    SUN

NO SALES ------------
CLERK 1    NO.000021
TIME 12:44      9999
```

* NO SALE *

```
NON-ADD #    1234567
```

* NON- ADD NUMBER *

* DEPARTMENT ENTRIES *

A. OPEN DEPARTMENT ENTRIES

1) Single open DEPARTMENT entry

☐☐☐☐— DEPARTMENT

Enter amount

2) Repeat open DEPARTMENT entry

☐☐☐☐— DEPARTMENT — DEPARTMENT

Enter amount

3) Multiple open DEPARTMENT entry

☐☐— X/TIME —☐☐☐☐— DEPARTMENT

Enter Q'ty(1-99)   Enter amount

- 43 -

4) Decimal multiplication of open DEPARTMENT entry
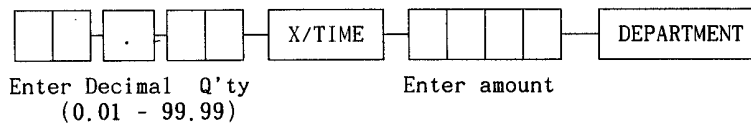
| | | ├─| . |─| | | |─| X/TIME |─| | | | | |─| DEPARTMENT |

Enter Decimal Q'ty   Enter amount
(0.01 - 99.99)

5) Override HALO price entry
The High Amount Lock Out (HALO) limits the amount entered.

| | | |─| X/TIME |─| | | | | |─| DEPARTMENT |

Enter Q'ty(1-99)   Enter amount
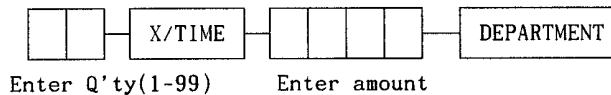
6) Split pricing on open DEPARTMENT entry

| | | |─| X/TIME |─| | | |─| X/TIME |─| | | | | |─| DEPARTMENT |

Enter Q'ty   Enter basic Q'ty   Enter amount
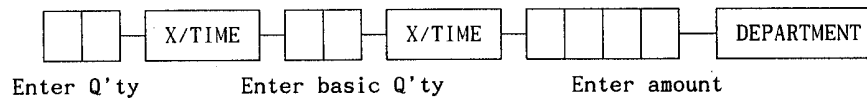
```
DATE 12.25.'93    SUN

APPLE ⊠1        ▪10.00      ──── Taxable by tax 1
APPLE ⊠1        ▪10.00      ──── Repeat entry
APPLE ⊠1        ▪10.00
3X              ⊕10.00      ──── Multiple open entry
APPLE ⊠1        ▪30.00
1.5X            ⊕10.00      ──── Decimal multiplication
APPLE ⊠1        ▪15.00
1X             ⊕100.00      ──── HALO override
APPLE ⊠1       ▪100.00
3/4FOR          ⊕10.00      ──── Split pricing
APPLE ⊠1         ▪7.50
TOTAL          ▪182.50
CASH           ▪182.50
CLERK 1      NO.000022
TIME 12:47       9999
```

Dept. 1 ─────
descriptor

B. PRESET DEPARTMENT ENTRIES

1) Single preset amount DEPARTMENT entry

```
                                                    ┌──────────────┐
                                                    │  DEPARTMENT  │
                                                    └──────────────┘
```

2) Repeat preset amount DEPARTMENT entry

```
                          ┌──────────────┐  ┌──────────────┐
                          │  DEPARTMENT  │──│  DEPARTMENT  │
                          └──────────────┘  └──────────────┘
```

3) Multiple preset amount DEPARTMENT entry

```
                    ┌──┬──┐  ┌────────┐  ┌──────────────┐
                    │  │  │──│ X/TIME │──│  DEPARTMENT  │
                    └──┴──┘  └────────┘  └──────────────┘
                  Enter Q'ty (1 - 99)
```

4) Decimal multiplication of preset amount DEPARTMENT entry

```
            ┌──┬──┐  ┌───┐ ┌──┬──┐  ┌────────┐  ┌──────────────┐
            │  │  │──│ . │─│  │  │──│ X/TIME │──│  DEPARTMENT  │
            └──┴──┘  └───┘ └──┴──┘  └────────┘  └──────────────┘
                Enter decimal Q'ty (1 - 99)
```

5) Override preset amount price entry

```
                    ┌──┬──┬──┬──┐  ┌──────────────┐
                    │  │  │  │  │──│  DEPARTMENT  │
                    └──┴──┴──┴──┘  └──────────────┘
                    Enter amount    Preset DEPT.
```

6) Split pricing on preset amount DEPARTMENT entry

```
        ┌──┬──┐  ┌────────┐  ┌──┬──┐  ┌────────┐  ┌──────────────┐
        │  │  │──│ X/TIME │──│  │  │──│ X/TIME │──│  DEPARTMENT  │
        └──┴──┘  └────────┘  └──┴──┘  └────────┘  └──────────────┘
        Enter Q'ty      Enter basic Q'ty
```

```
                    ┌────────────────────────────┐
                    │ DATE 12.25.'93     SUN      │
                    │                             │
Dept. 3 ─────────── │ DEPT.3 X̲2      ▪10.00       │ ──── Preset price taxable by tax 2
                    │ DEPT.3 X2      ▪10.00       │ ──── Repeat entry
                    │ DEPT.3 X2      ▪10.00       │
                    │ 3X            ☺10.00        │ ──── Multiplication
                    │ DEPT.3 X2      ▪30.00       │
                    │ 1.5X          ☺10.00        │ ──── Decimal multiplication
                    │ DEPT.3 X2      ▪15.00       │
                    │ DEPT.3 X2      ▪20.00       │ ──── Preset override
                    │ 3/4FOR        ☺10.00        │ ──── Split pricing
                    │ DEPT.3 X2       ▪7.50       │
                    │ TOTAL         ▪102.50       │
                    │ CASH          ▪102.50       │
                    │ CLERK 1      NO.000023      │
                    │ TIME 12:48        9999      │
                    └────────────────────────────┘
```

C. GALLONAGE DEPARTMENT OPERATION

Selection of the gallonage option in the department programming section causes a number of things to happen.

First of all, although gallonage departments are considered open departments, a per gallon price must be entered as part of the department programming. This price is calculated to three decimal points. (e.g. 1.399).

Secondly, although gallonage departments are programmed as a preset price, you must enter amounts when gallonage departments are registered.

* DEPT.10 has been programmed for gallonage status, and is non-taxable with a unit price 1.399.

EX)

| 1 | 0 | 0 | 0 |——| DEPT.10 |——| CASH/TEND |

Enter amount   Gallonage DEPT.

```
DATE 12.25.'93    SUN

GAL CNT        #7.15  ——— Calculated gallonage counter
GAL AMT        @1.399 ——— Gallonage price
DEPT.10        •10.00 ——— Gallonage dept. 10
TOTAL          •10.00
CASH           •10.00
CLERK 1     NO.000024
TIME 12:48       9999
```

* PLU (PRICE LOOK UP) ENTRIES *

A. OPEN PLU ENTRIES

1) Single open PLU entry

| |——| PLU |——| |——| PLU |

Enter PLU NO.   Enter PLU amount

2) Repeat open PLU entry

| |——| PLU |——| |——| PLU |——| PLU |

Enter PLU NO.   Enter PLU amount

3) Multiple open PLU entry

| |——| X/TIME |——| |——| PLU |——| |——| PLU |

Enter Q'ty   Enter PLU NO.   Enter PLU amount

- 46 -

4) Decimal multiplication of open PLU entry
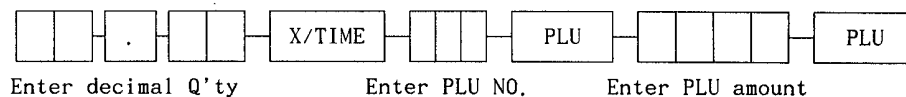
| Enter decimal Q'ty | | . | | | → | X/TIME | → | | | → | PLU | → | | | | → | PLU |

Enter decimal Q'ty   Enter PLU NO.   Enter PLU amount

5) Override HALO price entry
   The High Amount Lock Out (HALO) limits the amount entered.

| | | → | X/TIME | → | | | → | PLU | → | | | | → | PLU |

Enter Q'ty   Enter PLU NO.   Enter PLU amount
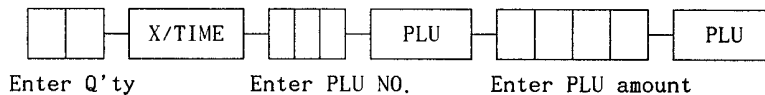
6) Split pricing on open PLU entry

| | → | X/TIME | → | | | → | X/TIME | → | | | → | PLU | → | | | | → | PLU |

Enter Q'ty   Enter basic Q'ty   Enter PLU NO.   Enter PLU amount

```
DATE 12.25.'93    SUN

ORANGE X1    •10.00
ORANGE X1    •5.00
ORANGE X1    •5.00
3X            @5.00
ORANGE X1    •15.00
1.5X         @10.00
ORANGE X1    •15.00
1X          @100.00
ORANGE X1   •100.00
3/4FOR       @10.00
ORANGE X1     •7.50
TOTAL       •157.50
CASH        •157.50
CLERK 1   NO.000025
TIME 12:49     9999
```

PLU NO. 10 ──── (descriptor)

──── PLU price taxable by tax 1
──── Repeat entry

──── PLU multiplication

──── Decimal multiplication

──── PLU HALO override

──── Split pricing

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B. PRESET PLU ENTRIES

1) Single preset PLU entry

[| | |]—[PLU]
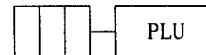
Enter PLU NO.

2) Repeat preset PLU entry

[| | |]—[PLU]—[PLU]
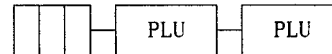
Enter PLU NO.

3) Multiple preset PLU entry

[| |]—[X/TIME]—[| | |]—[PLU]
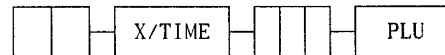
Enter Q'ty   Enter PLU NO.

4) Decimal multiplication of preset PLU entry

[| |]—[.]—[| |]—[X/TIME]—[| | |]—[PLU]
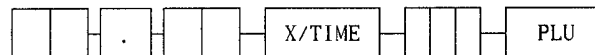
Enter decimal Q'ty   Enter PLU NO.

5) Split pricing on preset PLU entry

[| |]—[X/TIME]—[| |]—[X/TIME]—[| | |]—[PLU]

Enter Q'ty   Enter basic Q'ty   Enter PLU NO.

PLU NO. ————

```
DATE 12.25.'93    SUN

PLU 20 X2      •10.00   ———— PLU price taxable by tax 2
PLU 100 X1     •5.00    ———— Repeat entry
PLU 100 X1     •5.00
3X             @10.00   ———— PLU multiplication
PLU 20 X2      •30.00
1.5X           @10.00   ———— Decimal multiplication
PLU 20 X2      •15.00
3/4FOR         @10.00   ———— Split pricing
PLU 20 X2      •7.50
TOTAL          •72.50
CASH           •72.50
CLERK 1      NO.000028
TIME 12:53       9999
```

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C. PLU TO PLU CHAIN OPERATION

All Preset PLU's in the same chain(PLU to PLU linking) will automatically ring up when
the first PLU of the PLU chain is entered. If a PLU located in the middle of the PLU chain
is entered, all Preset PLU's futher down on the chain will automatically ring up.

* PLU 100 is linked to PLU 50.

```
DATE 12.25.'93    SUN

PLU 50  X1      •10.00
PLU 100 X1       •5.00      ——— Chain PLU
TOTAL           •15.00             Preset price of 5.00
CASH            •15.00
CLERK 1     NO.000029
TIME 12:53        9999
```

* SINGLE ITEM DEPARTMENT OR PLU ENTRIES *

Single item operation is finalized transaction without tendering key entry.
But the transaction is not finalized when you press a department or PLU key
before single item department or PLU entry.

A. SINGLE ITEM PRESET ENTRY

```
DEPT. or PLU
```

B. SINGLE ITEM OVERRIDE ENTRY

```
☐☐ — X/TIME — ☐☐☐ — DEPT. or PLU
Enter Q'ty        Enter amount
```

```
DATE 12.25.'93    SUN

DEPT.4 X3       •15.00      ——— Single item dept.
TOTAL           •15.00
CASH            •15.00
CLERK 1     NO.000030
TIME 12:54        9999
```

* COMPUTATION OF VAT (Value Added Tax) *

The following four tax systems are available on your register. You can select any of them depending on your requirements.

NOTE : REFER TO SYSTEM OPTION ADDRESS 31 TO SELECT INCLUSIVE OR EXCLUSIVE VAT.

1. VAT 1 - 4 system (INCLUSIVE VAT)

   This system provides the VAT calculation for taxable 1-4 subtotals. This calculation is performed using the corresponding programmed percentage when the " VAT " key is pressed just after the " SUBTOTAL " key.

2. VAT 1 - 4 system (EXCLUSIVE VAT)

   Calculates taxes for 1 - 4 subtotals by using the corresponding programmed percentage, and also the calculated taxes to those subtotals, respectively.

Value Added Tax (VAT)

The VAT routine is as follow. The breakdown of tax that has been charged to an item(s) is determined and prints in a unique format at the end of the receipt.
Following the subtotal of the sale, to do this depress the " VAT " key.

A. INCLUSIVE VAT

   1) Inclusive VAT is used when a tax is already included in the item price, and a breakdown of the various tax charge is separated out.
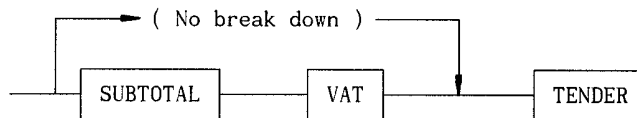
   When you use SYSTEM OPTION ADDRESS 9 VALUE 'c' (Page 38), breakdown will be done automatically.

   2) VAT shift

   When the " VAT SHIFT " key entry is made for a particular department or PLU programmed for taxable 1, their tax status shifts to taxable 2.

   When this entry is made for a particular department or PLU programmed for taxable 1 and taxable 3, the tax status taxable 1 remains unchanged, but the taxable 3 shifts to tax delete.

B. EXCLUSIVE VAT

1) When you use EXCLUSIVE VAT, you should program SYSTEM OPTION ADDRESS 31 to 1.

Exclusive VAT is used when tax has not been previously incorporated into the item price, and the approprite automatic tax rate are applied at the end of sales.

2) Tax Exempt

While the EXCLUSIVE VAT routine is in use, you can exempt normally taxable department or PLU entries from tax.
For this purpose, the " VAT SHIFT " key is used as a tax exempt key.

```
┌──────────┐   ┌──────────────┐
│ VAT shift ├───┤ DEPT. or PLU │
└──────────┘   └──────────────┘
```

```
┌──────────────────────────────┐
│ DATE 12.25.'93      SUN       │
│                               │
│ APPLE ×1         •10.00       │ — Taxable by tax 1
│ APPLE ×2         •10.00       │ — Tax 1 shift
│ DEPT.6 ×1&3      •10.00       │ — Taxable by tax1
│ DEPT.6 ×1        •10.00       │ ┐         and tax 3
│ SUBTOTAL         •40.00       │ └ Tax 3 delete
│ TAXABLE 1        •30.00       │ — Tax1 taxable amount
│ NET1 AMT         •27.27       │ — Tax1 break down
│ TAX1 AMT          •2.73       │
│ TAXABLE 2        •10.00       │ — Tax2 taxable amount
│ NET2 AMT          •9.26       │ — Tax2 break down
│ TAX2 AMT          •0.74       │
│ TAXABLE 3        •10.00       │ — Tax3 taxable amount
│ NET3 AMT          •9.43       │ — Tax3 break down
│ TAX3 AMT          •0.57       │
│ TOTAL            •40.00       │
│ CASH             •40.00       │
│ CLERK 1      NO.000033        │
│ TIME 13:22        9999        │
└──────────────────────────────┘
```

* INCLUSIVE VAT *

```
┌──────────────────────────────┐
│ DATE 12.25.'93      SUN       │        SYSTEM OPTION
│                               │        ADDRESS 31
│ SYSTEM OPN 31        1        │
│ APPLE ×1         •10.00       │ — Taxable by tax 1
│ APPLE            •10.00       │ — Tax 1 exempt
│ DEPT.3 ×2        •10.00       │ — Taxable by tax 2
│ DEPT.3           •10.00       │ — Tax 2 exempt
│ DEPT.4 ×3        •15.00       │ — Taxable by tax 3
│ DEPT.4           •15.00       │ — Tax 3 exempt
│ DEPT.15 ×4       •10.00       │ — Taxable by tax 4
│ DEPT.15          •10.00       │ — Tax 4 exempt
│ SUBTOTAL         •90.00       │
│ TAX1 AMT          •1.00       │ — Tax 1 amount
│ TAX2 AMT          •0.80       │ — Tax 2 amount
│ TAX3 AMT          •0.90       │ — Tax 3 amount
│ TAX4 AMT          •0.50       │ — Tax 4 amount
│ TOTAL            •93.20       │
│ CASH             •93.20       │
│ CLERK 1      NO.000034        │
│ TIME 13:23        9999        │
└──────────────────────────────┘
```

* EXCLUSIVE VAT *

* % KEY ENTRIES *

A. DISCOUNT/SURCHARGE OPERATION

You can register a percentage discount or surcharge using the % key. Whether the % key register a discount or surcharge depends on the programming, so in this section the operations are refered to as Discount/Surcharge. The discount or surcharge may be open preset and may be programmed to apply to items, or to apply to the entire sale (entered after a " SUBTOTAL " key).

1) Preset percent item discount/surcharge

```
┌─────────────┐    ┌──────┐
│ DEPT. or PLU │──│  %   │
└─────────────┘    └──────┘
```

2) Overriding preset item discount/surcharge

```
┌─────────────┐  ┌──┬──┐ ┌─┐ ┌──┬──┐  ┌──────┐
│ DEPT. or PLU │──│  │  │─│.│─│  │  │──│  %   │
└─────────────┘  └──┴──┘ └─┘ └──┴──┘  └──────┘
```
Enter percentage rate
(0.01 - 99.99)

3) Preset percent sale discount/surcharge

```
┌─────────────┐  ┌──────────┐  ┌──────┐
│ DEPT. or PLU │──│ SUBTOTAL │──│  %   │
└─────────────┘  └──────────┘  └──────┘
```

4) Open sale discount/surcharge

```
┌─────────────┐  ┌──────────┐  ┌──┬──┐ ┌─┐ ┌──┬──┐  ┌──────┐
│ DEPT. or PLU │──│ SUBTOTAL │──│  │  │─│.│─│  │  │──│  %   │
└─────────────┘  └──────────┘  └──┴──┘ └─┘ └──┴──┘  └──────┘
```
Enter percentage rate
(0.01 - 99.99)

```
DATE 12.25.'93    SUN

APPLE Ⅹ1         ▪10.00
DISCOUNT 1      -10.00%      ── Preset % discount
AMOUNT           -1.00
APPLE ⅩI        ▪10.00
SURCHARGE 3       5.00%      ── Preset % surcharge
AMOUNT           ▪0.50
DEPT.3 Ⅹ2       ▪10.00
DISCOUNT 1      -15.50%      ── Override preset
AMOUNT           -1.55              % discount
TOTAL           ▪27.95
CASH            ▪27.95
CLERK 1      NO.000037
TIME 13:28        9999
```

```
DATE 12.25.'93    SUN

APPLE ⅩI        ▪10.00
APPLE ⅩI        ▪10.00
SALE DISC 2      -5.00%      ── Preset % sale
AMOUNT           -1.00              discount
APPLE ⅩI        ▪10.00
DEPT.3 Ⅹ2       ▪10.00
SALE DISC 4     -15.50%      ── Open -% sale
AMOUNT           -6.05              discount
TOTAL           ▪32.95
CASH            ▪32.95
CLERK 1      NO.000039
TIME 13:30        9999
```

B. COUPON (PRESET/OPEN AMOUNT DISCOUNT) OPERATION

The coupon or Preset/Open amount discount allows you to reduce the total amount of sale by the amount.
You must enter the coupon key after the items, not before, coupon must be linked to appropriate department or PLU.

1) Coupon (Preset/Open amount discount) item entry

```
┌──────────────┐   ┌─┬─┬─┐     ┌───┐   ┌──────────────┐
│ DEPT. or PLU │──▶│ │ │ │─────│ % │───│ DEPT. or PLU │
└──────────────┘   └─┴─┴─┘     └───┘   └──────────────┘
                    Enter        COUPON
                    amount         or
                    (OPEN)    Preset Discount

                    PRESET
```
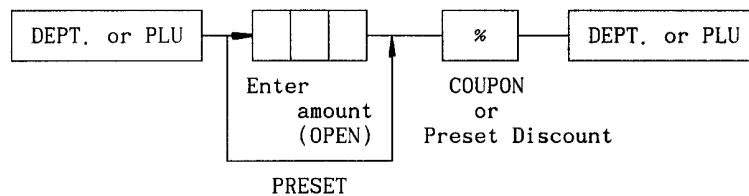
2) Multiple coupon item entry

```
┌──────────────┐   ┌─┬─┐   ┌────────┐
│ DEPT. or PLU │───│ │ │───│ X/TIME │──────────────────┐
└──────────────┘   └─┴─┘   └────────┘                  │
                 Enter Q'ty                            │
                  (1 - 99)                             │
                                                       │
          ┌────────────────────────────────────────────┘
          │
          │     ┌─┬─┬─┐     ┌───┐   ┌──────────────┐
          └────▶│ │ │ │─────│ % │───│ DEPT. or PLU │
                └─┴─┴─┘     └───┘   └──────────────┘
                 Enter        COUPON
                 amount

                 PRESET
```
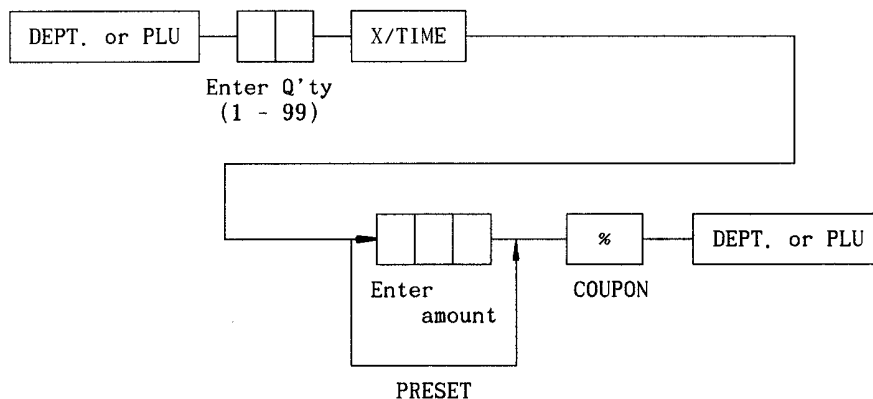
3) Preset coupon override on item

```
┌──────────────┐   ┌─┬─┬─┐     ┌───┐   ┌──────────────┐
│ DEPT. or PLU │───│ │ │ │─────│ % │───│ DEPT. or PLU │
└──────────────┘   └─┴─┴─┘     └───┘   └──────────────┘
                 Enter amount   COUPON
```
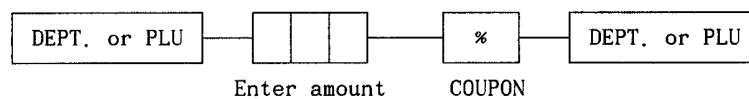
4) HALO override on item coupon

```
┌──────────────┐   ┌─┐   ┌────────┐   ┌─┬─┬─┐   ┌───┐   ┌──────────────┐
│ DEPT. or PLU │───│1│───│ X/TIME │───│ │ │ │───│ % │───│ DEPT. or PLU │
└──────────────┘   └─┘   └────────┘   └─┴─┴─┘   └───┘   └──────────────┘
                                     Enter amount COUPON
```
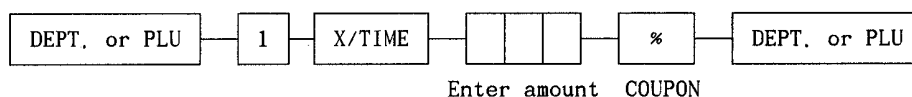
5) Coupon (Preset/Open amount discount) sale entry

```
┌──────────────┐   ┌──────────┐   ┌─┬─┬─┐     ┌───┐
│ DEPT. or PLU │───│ SUBTOTAL │──▶│ │ │ │─────│ % │
└──────────────┘   └──────────┘   └─┴─┴─┘     └───┘
                                   Enter        COUPON
                                   amount         or
                                   (OPEN)       Preset
                                              Discount
                                   PRESET
```
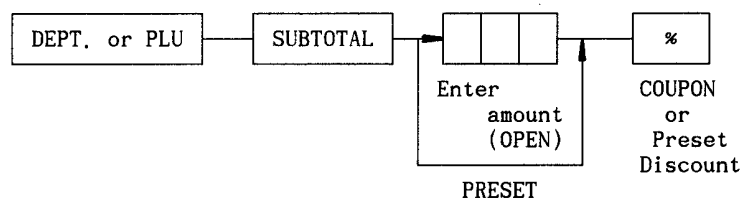
C. COUPON 2 OPERATION

To register this feature, please read ' COUPON 2 FEATURE NOTE ' in programming of COUPON 2.
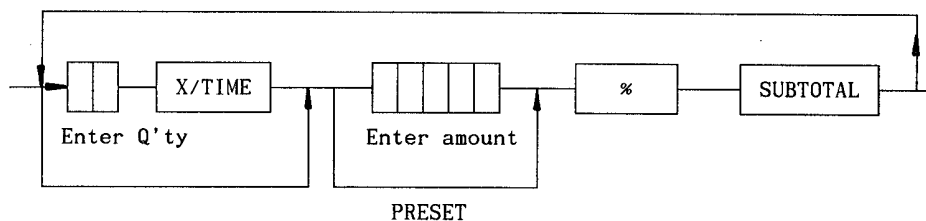
Enter Q'ty   X/TIME   Enter amount   %   SUBTOTAL

PRESET

```
DATE 12.25.'93    SUN

APPLE ⅀1        ▪10.00
APPLE ⅀1(C)     -0.50  ── Coupon entry
2X              -0.50  ── Multiple coupon entry
APPLE ⅀1(C)     -1.00
APPLE ⅀1(C)     -0.60  ── Override preset coupon
1X              -1.00  ── HALO overriding coupon
APPLE ⅀1(C)     -1.00
TOTAL           ▪6.90
CASH            ▪6.90
CLERK 1      NO.000041
TIME 13:31       9999
```

```
DATE 12.25.'93     SUN

APPLE ⅀1         ▪10.00
DEPT.3 ⅀2        ▪10.00
ORANGE ⅀1        ▪5.00
SALE CPN AMT     -0.50  ── Sale coupon entry
TOTAL           ▪24.50
CASH            ▪24.50
CLERK 1      NO.000042
TIME 13:32        9999
```

Direct discount entry ───

```
DATE 12.25.'93     SUN

MINUS AMT        -5.00
MINUS AMT        -0.50
TOTAL            -5.50
CASH             -5.50
CLERK 1      NO.000043
TIME 13:32        9999
```

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* MERCHANDISE RETURN OPERATIONS *

A. MERCHANDISE RETURN OF A SINGLE DEPARTMENT OR PLU ENTRY

```
┌──────────────┐        ┌──────────────┐
│ MDSE RETURN  │───────▶│ DEPARTMENT   │
└──────────────┘    │   └──────────────┘
                    │          or
                    │   ┌──────────────┐
                    └──▶│    P L U     │
                        └──────────────┘
```
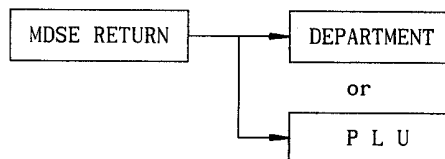
B. MERCHANDISE RETURN OF A MULTIPLE DEPARTMENT OR PLU ENTRY

```
┌──────────────┐   ┌─┬─┐   ┌──────────┐        ┌──────────────┐
│ MDSE RETURN  │───│ │ │───│  X/TIME  │───────▶│ DEPARTMENT   │
└──────────────┘   └─┴─┘   └──────────┘    │   └──────────────┘
                    Q'ty                   │          or
                                           │   ┌──────────────┐
                                           └──▶│    P L U     │
                                               └──────────────┘
```
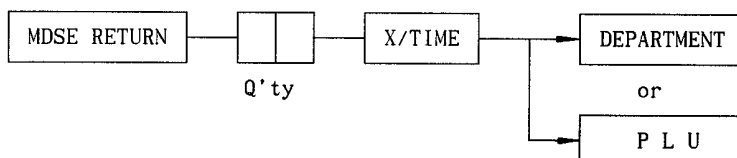
C. MERCHANDISE RETURN OF DISCOUNTED ITEM

```
┌──────────────┐        ┌──────────────┐      ┌─────┐      ┌──────────┐
│ MDSE RETURN  │───────▶│ DEPARTMENT   │──┐   │  %  │──────│  TENDER  │
└──────────────┘    │   └──────────────┘  │   └─────┘      └──────────┘
                    │          or         ▲
                    │   ┌──────────────┐  │
                    └──▶│    P L U     │──┘
                        └──────────────┘
```
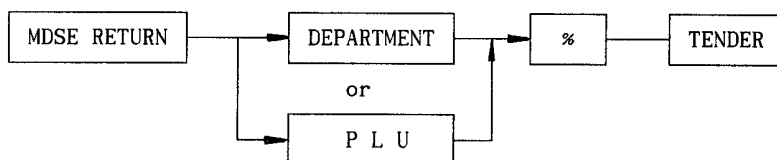
NOTE: MERCHANDISE RETURN OF NEGATIVE DEPARTMENTS OR PLU'S IS NOT ALLOWED ALSO, VOID OF
       MERCHANDISE RETURN ENTRIES IS NOT ALLOWED.

```
┌───────────────────────┐
│ DATE 12.25.'93    SUN │
│                       │
│ RETURN XXXXXXXXXXXXX   │───── Single item returned
│ APPLE X1      -10.00   │
│ RETURN XXXXXXXXXXXXX   │───── Multiple item returned
│ 2X            -10.00   │
│ APPLE X1      -20.00   │
│ RETURN XXXXXXXXXXXXX   │───── Discounted item returned
│ APPLE X1      -10.00   │
│ DISCOUNT 1    -10.00%  │
│ AMOUNT         -1.00   │
│ TOTAL         -39.00   │
│ CASH          -39.00   │
│ CLERK 1    NO.000046   │
│ TIME 13:43      9999   │
└───────────────────────┘
```

* VOID OPERATIONS *

A. VOID OF A LAST ITEM ENTRY (ERROR CORRECT)

Press the " VOID " key immediately after making an incorrect entry.

```
┌──────────────┐   ┌──────────────┐   ┌──────┐
│ DEPT. or PLU │───│ DEPT. or PLU │───│ VOID │
└──────────────┘   └──────────────┘   └──────┘
```
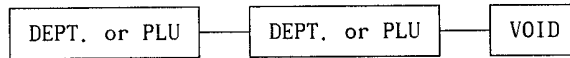
B. VOID OF A PREVIOUS ITEM ENTRY

You can make corrections using the " VOID " key at any point during the sale.

```
┌──────────────┐ ┌──────────────┐ ┌───────┐ ┌──────┐ ┌──────────────┐
│ DEPT. or PLU │─│ DEPT. or PLU │─│ CLEAR │─│ VOID │─│ DEPT. or PLU │
└──────────────┘ └──────────────┘ └───────┘ └──────┘ └──────────────┘
```

Or
```
┌──────────────┐ ┌──────────────┐ ┌──┬──┐ ┌────────┐ ┌──────┐ ┌──────────────┐
│ DEPT. or PLU │─│ DEPT. or PLU │─│  │  │─│ X/TIME │─│ VOID │─│ DEPT. or PLU │
└──────────────┘ └──────────────┘ └──┴──┘ └────────┘ └──────┘ └──────────────┘
                                    Q'ty
```

```
┌─────────────────────────────┐
│ DATE 12.25.'93      SUN      │
│                             │
│ APPLE ✗1        ▪10.00       │
│ DEPT.3 ✗2       ▪10.00       │
│ DEPT.4 ✗3       ▪15.00       │
│ ERROR CORRECT  ───────       │
│ DEPT.4 ✗3       -15.00       │
│ PREVIOUS VOID  ───────       │
│ APPLE ✗1        -10.00       │
│ TOTAL           ▪10.00       │
│ CASH            ▪10.00       │
│ CLERK 1     NO.000047        │
│ TIME 13:43        9999       │
└─────────────────────────────┘
```
———— Error correct

———— Previous void

C. VOID OUTSIDE OF A SALE

If you want to void a number of items of incorrect entries which were not made void during a sale.

1) Turn the control lock key to the 'VOID' position.
2) Make all entries you want to void in the normal sequence.
3) All these items will appear as alternative sign amounts.
4) All VOID position operations maintain their own total on the report.

```
DATE 12.25.'93     SUN

VOID MODE XXXXXXXXXX ───── Void outside of a sale
DEPT.3 X2      -10.00
APPLE X1       -10.00
TOTAL          -20.00
CASH           -20.00
CLERK 1     NO.000048
TIME 13:44       9999
```

D. CANCEL (VOID 4) OPERATION

Depression of the " CANCEL " key anywhere within a transaction cancels the entire transaction. This is not a tender key!
Transactions of up to a maximum of thirty items may be canceled.
If a cancel function is attempted after the entering more than thirty items, the function will error.

The only total updated by this transaction is the 'CANCEL' total which would be the total of all positive entries made in the transaction before the depression of the " CANCEL " key.
The transaction number is advanced as for any transaction.

All other total will be not updated.

```
DATE 12.25.'93     SUN

APPLE X1        •10.00
DEPT.2 X1       •10.00
DEPT.3 X2       •10.00
DEPT.4 X3       •15.00
ALL CANCEL XXXXXXXXX
CLERK 1     NO.000049
TIME 13:44       9999
```

```
        ┌─ DEPT. or PLU ─┐
        │  DEPT. or PLU  │
Up to 30 items    .
        │        .
        │  DEPT. or PLU  │
        └─ DEPT. or PLU ─┘
               │
            CANCEL
```

* ADD CHECK OPERATIONS

```
DATE 12.25.'93    SUN

APPLE ×1        ■10.00
TOTAL           ■10.00
ADD CHECK       ■10.00
CLERK 1     NO.000050
TIME 13:44        9999
```
Add check entry ──────

```
DATE 12.25.'93    SUN

DEPT.15 ×4      ■10.00
TOTAL           ■10.00
ADD CHECK       ■10.00
CLERK 1     NO.000051
TIME 13:44        9999
```
Add check entry ──────

```
DATE 12.25.'93    SUN

TOTAL           ■20.00
CASH            ■20.00
CLERK 1     NO.000052
TIME 13:44        9999
```
──── Add check tendering

```
┌─────────────────┐
│  DEPT. or PLU   │
└─────────────────┘
         │
┌─────────────────┐
│   ADD CHECK     │
└─────────────────┘
         │
┌─────────────────┐
│  DEPT. or PLU   │
└─────────────────┘
         │
┌─────────────────┐
│   ADD CHECK     │
└─────────────────┘
         │
┌─────────────────┐
│     TENDER      │
└─────────────────┘
```

* TENDERING OPERATION *

A. CASH TENDER

```
┌──────────────┐    ┌──────────┐   ┌──┬──┬──┬──┐   ┌──────────┐
│ DEPT. or PLU │ ─► │ SUBTOTAL │ ─ │  │  │  │  │ ─ │ CASH/TEND│
└──────────────┘    └──────────┘   └──┴──┴──┴──┘   └──────────┘
                              Enter amount
```

```
DATE 12.25.'93    SUN

APPLE ×1         ■5.00
DEPT.3 ×2       ■10.00
TOTAL           ■15.00
CASH            ■20.00
CHANGE           ■5.00
CLERK 1     NO.000053
TIME 13:45        9999
```
──── Amount tendered
──── Change due
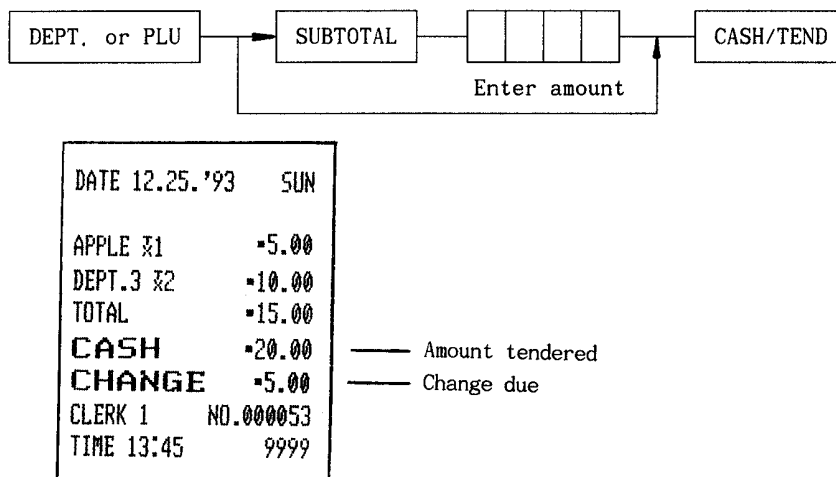
B. PRESET CASH TENDER

You must program the " PRESET CASH ". If you do not program this key, an error will occur when you enter the " PRESET CASH " key.
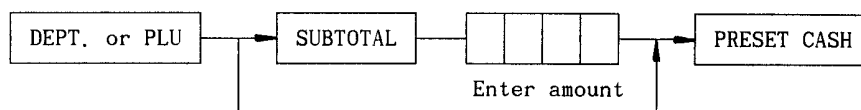
```
┌─────────────┐      ┌──────────┐    ┌─┬─┬─┬─┐        ┌──────────────┐
│ DEPT. or PLU│─────▶│ SUBTOTAL │────│ │ │ │ │────────│ PRESET CASH  │
└─────────────┘      └──────────┘    └─┴─┴─┴─┘        └──────────────┘
       │                                 ▲
       │             Enter amount         │
       └─────────────────────────────────┘
```

```
┌──────────────────────────┐
│ DATE 12.25.'93    SUN     │
│                           │
│ APPLE ✕1        ▪10.00    │
│ DEPT.3 ✕2       ▪10.00    │
│ TOTAL           ▪20.00    │
│ CASH            ▪5.00     │────── Preset cash 1 ( Amount 500 ) entry
│ TOTAL           ▪15.00    │
│ CASH            ▪10.00    │────── Preset cash 2 ( Amount 1000 ) entry
│ TOTAL           ▪5.00     │
│ CASH            ▪20.00    │────── Preset cash 3 ( Amount 2000 ) entry
│ CHANGE          ▪15.00    │────── Change due
│ CLERK 1      NO.000054    │
│ TIME 13:45       9999     │
└──────────────────────────┘
```

C. CHECK TENDER

```
┌─────────────┐      ┌──────────┐    ┌─┬─┬─┬─┐        ┌──────────┐
│ DEPT. or PLU│─────▶│ SUBTOTAL │────│ │ │ │ │────────│  CHECK   │
└─────────────┘      └──────────┘    └─┴─┴─┴─┘        └──────────┘
       │                                 ▲
       │             Enter amount         │
       └─────────────────────────────────┘
```
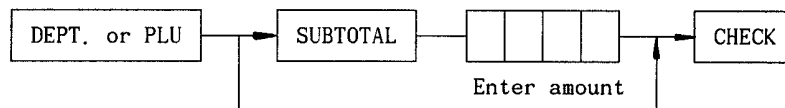
```
┌──────────────────────────┐
│ DATE 12.25.'93    SUN     │
│                           │
│ APPLE ✕1         ▪5.00    │
│ PLU 20 ✕2       ▪10.00    │
│ TOTAL           ▪15.00    │
│ CHECK           ▪20.00    │────── Amount of check tendered
│ CHANGE          ▪5.00     │────── Change due
│ CLERK 1      NO.000056    │
│ TIME 13:46       9999     │
└──────────────────────────┘
```

D. CHARGE TENDER

The entered amount of charge must not be more than subtotal amount.

```
┌─────────────────┐      ┌──────────┐    ┌──┬──┬──┬──┐      ┌──────────┐
│  DEPT. or PLU   │─────▶│ SUBTOTAL │────│  │  │  │  │────▶│  CHARGE  │
└─────────────────┘      └──────────┘    └──┴──┴──┴──┘  ▲   └──────────┘
                                         Enter amount   │
                                      └─────────────────┘
```

```
┌──────────────────────────────┐
│ DATE 12.25.'93      SUN       │
│                              │
│ APPLE ⅀1          ·■5.00      │
│ DEPT.3 ⅀2          ■10.00     │
│ TOTAL             ■15.00     │
│ CHG1              ■15.00     │──── Amount charged
│ CLERK 1        NO.000060     │
│ TIME 14:18         9999      │
└──────────────────────────────┘
```
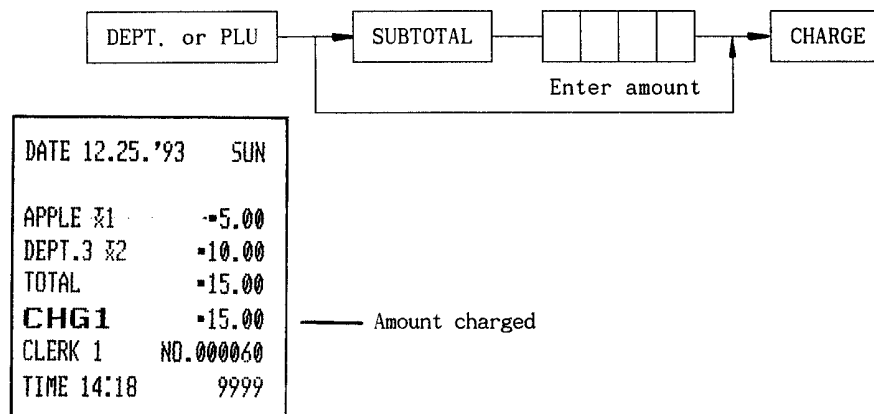
E. SPLIT TENDER

You can register any combination of tendering media on this ECR.

```
┌─────────────────┐      ┌──────────┐    ┌──┬──┬──┬──┐      ┌──────────┐
│  DEPT. or PLU   │──────│ SUBTOTAL │────│  │  │  │  │──────│  CHECK   │──────┐
└─────────────────┘      └──────────┘    └──┴──┴──┴──┘      └──────────┘      │
                                         Enter amount                          │
        ┌──────────────────────────────────────────────────────────────────┘
        │
        │   ┌──┬──┬──┬──┐      ┌──────────┐      ┌──────────┐
        └───│  │  │  │  │──────│ CASH/TEND │──────│  CHARGE  │
            └──┴──┴──┴──┘      └──────────┘      └──────────┘
            Enter amount
```
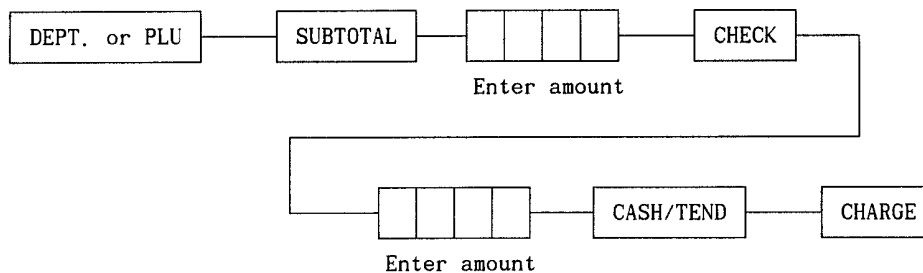
```
┌──────────────────────────────┐
│ DATE 12.25.'93      SUN       │
│                              │
│ APPLE ⅀1          ■10.00     │
│ DEPT.3 ⅀2          ■10.00     │
│ ORANGE ⅀1          ·5.00     │
│ PLU 20 ⅀2          ■10.00     │
│ TOTAL             ■35.00     │
│ CHECK             ■20.00     │──── Amount of check tendered
│ TOTAL             ■15.00     │
│ CASH              ■10.00     │──── Amount of cash tendered
│ TOTAL              ·5.00     │
│ CHG2               ■5.00     │──── Amount charged
│ CLERK 1        NO.000061     │
│ TIME 14:18         9999      │
└──────────────────────────────┘
```

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F. TENDERING WITH CURRENCY CONVERSION

You must program the " CONV " key. If you do not program this key, an error will occur when you press the " CONV " key.

```
┌──────────────┐   ┌──────────────┐   ┌────────┐     ┌─┬─┬─┬─┬─┬─┬─┐     ┌──────────────┐
│ DEPT. or PLU │───│   SUBTOTAL   │───│  CONV  │─────│ │ │ │ │ │ │ │─────│  CASH/TEND   │
└──────────────┘   └──────────────┘   └────────┘     └─┴─┴─┴─┴─┴─┴─┘     └──────────────┘
```
                                        Enter amount(Foreign currency)
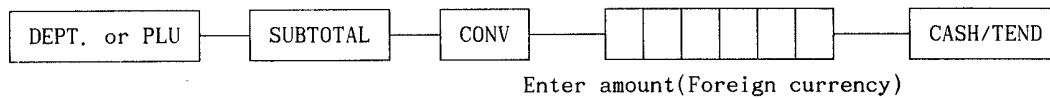
```
┌─────────────────────────┐
│ DATE 12.25.'93    SUN   │
│                         │
│ DEPT.7          ▪1.00   │
│ TOTAL           ▪1.00   │
│ FOREIGN AMT     @3.00   │────── Entered foreign currency amount
│ CHANGE RATE    #2.4455  │────── Change rate
│ HOME AMT        ▪1.23   │────── Changed home currency
│ CHANGE         ▪0.23    │────── Change due
│ CLERK 1    NO.000062    │
│ TIME 14:18       9999   │
└─────────────────────────┘
```

G. POST TENDERING

```
              ┌──────────────┐   ┌──────────────┐   ┌──────────────┐
              │ DEPT. or PLU │───│   SUBTOTAL   │───│  CASH/TEND   │
              └──────────────┘   └──────────────┘   └──────────────┘
              ┌─┬─┬─┬─┬─┬─┬─┐                       ┌──────────────┐
              │ │ │ │ │ │ │ │───────────────────────│  CASH/TEND   │
              └─┴─┴─┴─┴─┴─┴─┘                       └──────────────┘
                 Enter amount
```

```
┌─────────────────────────┐
│ DATE 12.25.'93    SUN   │
│                         │
│ APPLE  ⅟1       ▪5.00   │
│ DEPT.3 ⅟2      ▪10.00   │
│ TOTAL          ▪15.00   │
│ CASH           ▪15.00   │
│ CLERK 1    NO.000063    │
│ TIME 14:19       9999   │
└─────────────────────────┘
```
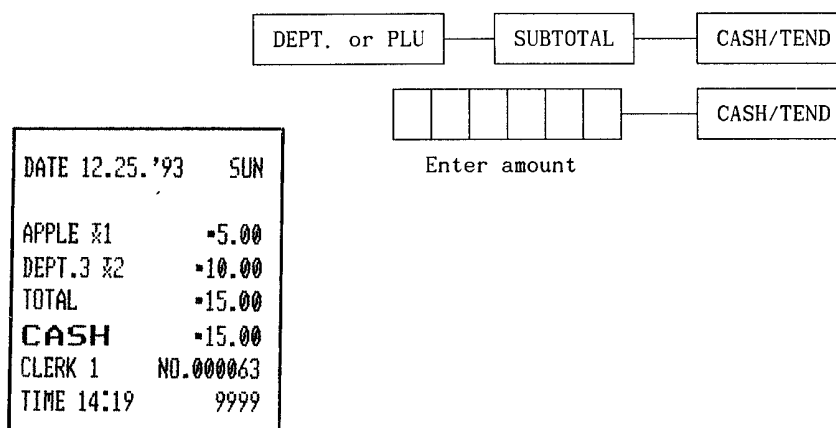
NOTE : POST TENDER FUNCTION MUST BE PROGRAMMED SYSTEM OPTION ADDRESS 32 (Page 40) TO OPERATE THIS FUNCTION. POST TENDER FUNCTION IS ALLOWED TO BE USED ON CASH TRANSACTIONS ONLY. AFTER POST TENDERING, THE DISPLAY WILL SHOW THE REMAINING AMOUNT AND THE DRAWER WILL OPEN.
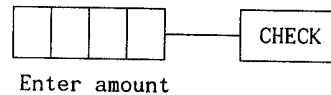
* CHECK CASHING *

If a customer wants to cash a check, follow this procedure.

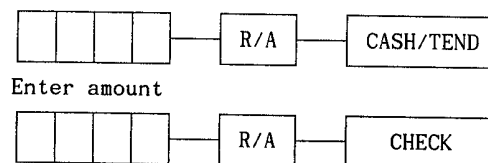1) Enter the amount of the check.
2) Press the " CHECK " key.

```
┌──┬──┬──┬──┐        ┌─────────┐
│  │  │  │  │────────│  CHECK  │
└──┴──┴──┴──┘        └─────────┘
Enter amount
```

```
┌──────────────────────────┐
│ DATE 12.25.'93      SUN   │
│                          │
│ ✗   CHECK CASHING   ✗    │
│ CHECK        ▪50.00      │
│ CASH         -50.00      │
│ CLERK 1     NO.000064    │
│ TIME 14:19       9999    │
└──────────────────────────┘
```

* RECEIVED ON ACCOUNT OPERATIONS *

Use the R/A key to register cashes or checks added to the cash drawer.

```
┌──┬──┬──┬──┐    ┌─────┐    ┌───────────┐
│  │  │  │  │────│ R/A │────│ CASH/TEND │
└──┴──┴──┴──┘    └─────┘    └───────────┘
Enter amount

┌──┬──┬──┬──┐    ┌─────┐    ┌───────────┐
│  │  │  │  │────│ R/A │────│   CHECK   │
└──┴──┴──┴──┘    └─────┘    └───────────┘
```

```
┌──────────────────────────┐      ┌──────────────────────────┐
│ DATE 12.25.'93     SUN    │      │ DATE 12.25.'93     SUN    │
│                          │      │                          │
│ R/A           ▪10.00     │      │ R/A           ▪10.00     │
│ CASH          ▪10.00     │      │ CHECK         ▪10.00     │
│ CLERK 1     NO.000065    │      │ CLERK 1     NO.000066    │
│ TIME 14:19       9999    │      │ TIME 14:19       9999    │
└──────────────────────────┘      └──────────────────────────┘
```

* Received on account cash *   * Received on account check *

* PAID OUT OPERATIONS *

Use the P/O(=PAID OUT) key to register media that is moved from cash drawer.
(Media = cash or check)

```
┌─┬─┬─┬─┐   ┌─────┐   ┌───────────┐
│ │ │ │ ├───┤ P/O ├───┤ CASH/TEND │
└─┴─┴─┴─┘   └─────┘   └───────────┘
Enter amount

┌─┬─┬─┬─┐   ┌─────┐   ┌───────────┐
│ │ │ │ ├───┤ P/O ├───┤   CHECK   │
└─┴─┴─┴─┘   └─────┘   └───────────┘
```
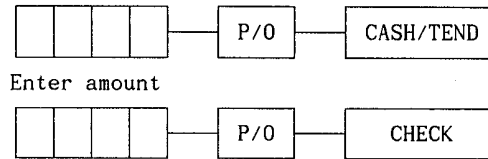
```
┌─────────────────────────┐      ┌─────────────────────────┐
│ DATE 12.25.'93    SUN    │      │ DATE 12.25.'93    SUN    │
│                          │      │                          │
│ P/O            -5.00     │      │ P/O            -5.00     │
│ CASH           -5.00     │      │ CHECK          -5.00     │
│ CLERK 1     NO.000067    │      │ CLERK 1     NO.000068    │
│ TIME 14:19       9999    │      │ TIME 14:19       9999    │
└─────────────────────────┘      └─────────────────────────┘
```

       * Paid out cash *   * Paid out check *

* PRINTING A BUFFERED RECEIPT OPERATIONS *

If a customer requests a receipt after a sale has been finalized, and the "RECEIPT ON/OFF"
key was in the 'OFF' position during the sale, a second depression of the " CASH/TEND "
key will issue a buffered receipt (Up to 30 lines).

A buffered receipt is limited to 20 item lines and 10 tendering lines.

If more than 20 entries are made in the sale, the register will issue a stub receipt only,
showing the total net sale, correct tax totals and payment tendered.

NOTE : RECEIPT ON/OFF should be used on 'REG/VOID' position of control lock, and can not
       be used during transactions.
       Press the RECEIPT ON/OFF key once to change it's status.
       When the RECEIPT ON/OFF sign is illuminated on display panel, the receipt printer
       will be turn off.

* VALIDATION OPERATIONS *

First of all, place a check or slip into the slot below the Receipt/Detail printer.

Upon depression of the " VALID " key, validations can be performed on department and PLU entries, R/A and P/O operation, % key entries, merchandise return, voids, and tendering operations.

If an operation is programmed "Validation Compulsory", this ECR will not operate until this is satisfied, and the message ' S P ' will appear on the display.
The error tone will sound if any other operations are attempted before the operation is validated.

Validation works only one time.
But if you want more than one validation, you must program SYSTEM OPTION ADDRESS 14 by VALUE 'c' (Page 38).

* SAMPLE VALIDATION RECEIPTS

* RECEIPT SIDE *	* JOURNAL SIDE *

```
1 1225'93 N000068 RTN      APPLE            -10.00
─ ─────── ─────── ───      ──────────────────────
a    b       c     d                 e
```

```
1 2512'93 N000068 DPT      DEPT.3            10.00
─ ─────── ─────── ───      ──────────────────────
a    b       c     d                 e
```

* Date (b) = SYSTEM OPTION ADDRESS 37 (Page 40) is 1 (DD/MM/YY).

```
1 '931225 N000068 TND      CASH              10.00
─ ─────── ─────── ───      ──────────────────────
a    b       c     d                 e
```

* Date (b) = SYSTEM OPTION ADDRESS 37 (Page 40) is 2 (YY/MM/DD).

    a = Clerk number.
    b = Date.
    c = Receipt consecutive number.
    d = Registration step.
    e = validated transaction content.

* RECEIPT FRONT MESSAGE PRINTING OPERATIONS *

If you want to print the receipt front messages on receipt, you must program the SYST-
EM OPTION ADDRESS 39 (Page 40) after progamming of front message descriptors.

```
┌─        ─┐
 YOUR RECEIPT

  THANK YOU
└─        ─┘

 Thank  You
 ER-4615/40
 Dot Matrix Printer
DATE 12.26.'93    MON

APPLE ✕1       ▪10.00
DEPT.2 ✕1      ▪10.00
DEPT.3 ✕2      ▪10.00
DEPT.4 ✕3      ▪15.00
TOTAL          ▪45.00
CASH           ▪45.00
CLERK 1     NO.000071
TIME 14:21       9999
```

```
--------------------
 Thank  You
 ER-4615/40
 Dot Matrix Printer
--------------------


DATE 12.26.'93    MON

APPLE ✕1       ▪10.00
DEPT.2 ✕1      ▪10.00
DEPT.3 ✕2      ▪10.00
DEPT.4 ✕3      ▪15.00
TOTAL          ▪45.00
CASH           ▪45.00
CLERK 1     NO.000073
TIME 14:22       9999
```

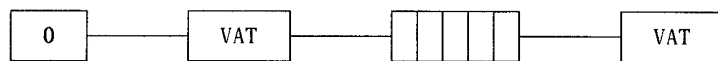   *** SYSTEM OPTION 39 = 1 ***   *** SYSTEM OPTION 39 = 2 ***

* TRAINNING OPERATIONS *

First of all, you must program the trainning mode secret code to operate the trainning mode operation.
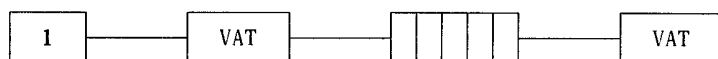Please refer to '3. TRAIN MODE PROGRAMMING' of 'PROGRAMMING NOTE' in this manual.

1. Turn the control lock key to the 'SERVICE MODE' position with marked 'C' key.

2. Program the train mode secret code for train operation.
   This secret code is valid until this secret code is changed.

```
┌─────┐        ┌─────┐        ┌─┬─┬─┬─┬─┐        ┌─────┐
│  0  ├────────┤ VAT ├────────┤ │ │ │ │ ├────────┤ VAT │
└─────┘        └─────┘        └─┴─┴─┴─┴─┘        └─────┘
```
                       Enter 5 digits secret code

3. Change the normal operation mode to train operation mode.
   (NORMAL OPERATION MODE -> TRAIN OPERATION MODE)

```
┌─────┐        ┌─────┐        ┌─┬─┬─┬─┬─┐        ┌─────┐
│  1  ├────────┤ VAT ├────────┤ │ │ │ │ ├────────┤ VAT │
└─────┘        └─────┘        └─┴─┴─┴─┴─┘        └─────┘
```
   Enter 5 digits secret code

   NOTE : After doing step 3, all the amounts registered are accumulated in the trainning
          mode report total area and will not effect normal report total areas.

          This ECR has 2 separated reports.
          One is the trainning mode reports the other is the normal operation reports.

          Trainning mode report has only daily reports and reset to '0' after 'Z' mode
          report issuing.

4. To finalize the trainning mode operation, Enter the following steps in the 'SERVICE MODE'
   position. (TRAINNING OPERATION MODE -> NORMAL OPERATION MODE)

```
┌─────┐        ┌─────┐                        ┌─────┐
│  2  ├────────┤ VAT ├────────────────────────┤ VAT │
└─────┘        └─────┘                        └─────┘
```
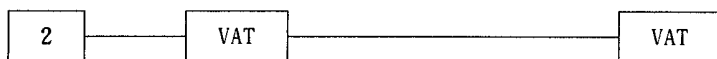
REPORT AND BALANCING

This ECR will produce the following reports.

REPORTS	REPORT NO.	REPORT TYPE	KEY LOCK	KEY SEQUENCE
FINANCIAL REPORT	1	X	X	1 SUB
		Z	Z	1 SUB
		X2	X	201 SUB
		Z2	Z	201 SUB
TIME REPORT	2	X	X	2 SUB
		Z	Z	2 SUB
		X2	X	202 SUB
		Z2	Z	202 SUB
PLU REPORT	3	X	X	3 SUB
		Z	Z	3 SUB
		X2	X	203 SUB
		Z2	Z	203 SUB
CASH-IN-DRAWER REPORT	4	X	X	4 SUB
CHECK-IN DRAWER REPORT	5	X	X	5 SUB
DAILY SALES REPORT	6	X	X	6 SUB
		Z	Z	6 SUB
INDIVIDUAL CLERK REPORT		X	X	SUB CLERK
		Z	Z	SUB CLERK
		X2	X	20 SUB CLERK
		Z2	Z	20 SUB CLERK
FROM/TO DEPT REPORT		X	X	FROM DEPT. KEY
				TO DEPT. KEY
FROM/TO PLU REPORT		X	X	XXX-PLU XXX-PLU
DEPARTMENT GROUP REPORT	30	X	X	30 SUB
		Z	Z	30 SUB
		X2	X	230 SUB
		Z2	Z	230 SUB

* REPORT MODES *

By turning the control lock key to different positions and by altering the key sequence, You may vary which totals are reset to '0' when you print the report.

* X MODE reports do not reset any totals. The Z counter is not advanced by X mode reports. The cash drawer opens.

* Z MODE reports reset totals to '0'. The Z counter is advanced.The cash drawer opens.

* X2 reports read the period-to-date information, but do not reset the period-to-date totals. The Z counter is not advanced by X2 reports. The cash drawer opens.

* Z2 reports read and reset the period-to-date totals, the Z counter is advanced by Z2 reports. The cash drawer opens.

* NOTE : YOU CAN NOT PRINT THE X2 AND Z2 REPORTS IN THE TRAIN MODE OPERATION

* CASH DECLARATION OPERATION *
If the compulsory cash declaration is programmed in the SYSTEM OPTION ADDRESS 13 (Page 38), the cash declaration must be performed in X/Z MODE positions prior to taking X/Z reports.

This is performed by depressing the " CASH/TEND " key, adding each type of cash payment in the drawer, entering the total via the 10-key numeric pad, and depressing the " CASH/TEND " key or " CHECK " key.
After each total is entered, a final depression of the " CASH/TEND " key will enter the information into the register and a X/Z position report.
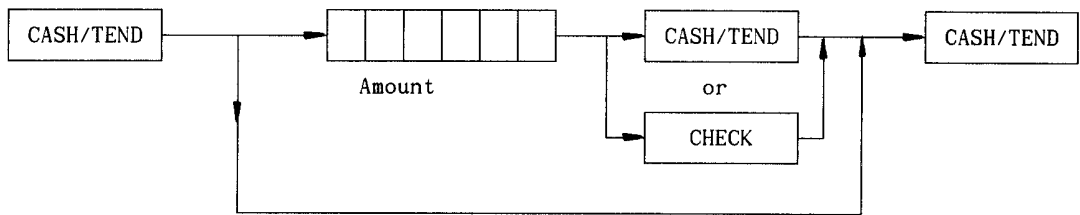
NOTE : After doing cash declaration in the X/Z mode, if you turn control key to any other position except the X/Z position, the cash declaration function will be lost. So if you want to print reports, you should perform the cash declaration operation again.


```
DATE 12.26.'93    MON

* CASH  DECLARATION *
CASH          ■100.00
CASH          ■200.00
CASH          ■550.00
CHECK         ■100.00
CHECK          ■10.00
TOTAL         ■960.00
CLERK 1     NO.000078
TIME 14:43       9999
```

Cash declaration amount ———
Check declaration amount ———
——— Declaration total amount

1. FINANCIAL REPORTS

A. X mode financial reoprt
   Ensure the CONTROL LOCK is in the X position.

| 1 |──| SUBTOTAL |

B. Z mode financial reoprt
   Ensure the CONTROL LOCK is in the Z position.

| 1 |──| SUBTOTAL |

C. X2 financial report
   Ensure the CONTROL LOCK is in the X position.

| 2 | 0 | 1 |──| SUBTOTAL |

D. Z2 financial reoprt
   Ensure the CONTROL LOCK is in the Z position.

| 2 | 0 | 1 |──| SUBTOTAL |

* SAMPLE FINANCIAL REPORT *

```
DATE 12.26.'93    MON

X1 REPORT     0000        ────── Z Report issuing counter
─┼─────────────────       ────── X Report
FINANCIAL

DEPT.1: APPLE             ────── Dept. 1  & descriptor
 CNT X1        46.00      ────── Activity counter    ──────→  ( XXX.XX )
 SALES AMT   •492.40      ────── Dept. sales total
 SALE RATE   49.89%       ────── Dept. % of sale
DEPT.2
 CNT X1        13.50
```

                          Integer part ─────┐
                                            │
                          Fraction part ────┘

```
 SALES AMT    •1.00
 SALE RATE    0.10%
DEPT.10
 CNT           7.15
 <GAL> AMT    @1.399      ────── Gallonage dept. price
 SALES AMT   •10.00       ────── Gallonage sales total
 SALE RATE    1.01%
DEPT.15
 CNT X4        3.00
 <HASH> AMT  •10.00
 SALES AMT   •30.00
 SALE RATE    3.03%
─────────────────
+DEPT TTL     98.00       ────── Positive dept. counter/total
            •986.85
-DEPT TTL      0.00       ────── Negative dept. counter/total
             •0.00
ADJST TTL     98.00       ────── Adjusted dept. counter/total
            •986.85
```

```
------------------------
TAX1ABLE      ■531.40  ──────── Total sale taxable by tax 1
              10.000%  ──────── Tax 1 rate
TAX1 AMT       ■48.39  ──────── Tax 1 amount
TAX2ABLE      ■311.40
               8.000%
TAX2 AMT       ■23.12
TAX3ABLE       ■70.00
               6.000%
TAX3 AMT        ■4.02
TAX4ABLE       ■20.00
               5.000%
TAX4 AMT        ■0.98
% 1                 8  ──────── % 1 key counter/total
                -4.65
% 2                 1  ──────── % 2 key counter/total
                -1.00
% 3                 2  ──────── % 3 key counter/total
                ■0.00
% 4                 3  ──────── % 4 key counter/total
               -11.55
NET                27  ──────── Customer counter
              ■947.00  ──────── Net amount
TAX1 SHIFT          1
               ■10.00  ──────── Tax 1 shift counter/total
TAX3 DEL            1
               ■10.00  ──────── Tax 3 delete counter/total
RTN                 4
               -39.00  ──────── Merchandise return counter/total
ERRCORR             1
               -15.00  ──────── Void 1 (Error correct)
PREV VD             1
               -10.00  ──────── Void 2 (Previous void)
MODE VD             1
               -20.00  ──────── Void 3 (Void outside of a sale)
CANCEL              3
               ■64.50  ──────── Void 4 (Cancel)
GROSS        ■1023.70  ──────── Gross total
CASH SALES         25
              ■902.00  ──────── Cash sales
CHECK SALES         3
               ■55.00  ──────── Check sales
```

```
R/A              2   ────────── R/A counter/total
             ▪20.00
P/O              2   ────────── P/O counter/total
             -10.00
HASH AMT         3   ────────── HASH dept. counter/total
             ▪30.00
NPLU-PDPT        0   ────────── (-) PLU linked to (+) dept. counter/total
             ▪0.00
AUDACT           2   ────────── Audaction counter/total
             -44.50
NOSALE          17   ────────── No sale counter
NON-ADD #  2469134   ────────── Non-add number total
CASH-IN-D  ▪850.77   ────────── Cash in drawer total
CASH DEC AMT ▪850.00 ────────── Cash declaration amount
OVER/SHORT   -0.77   ────────── Cash declaration over/short
CHECK-IN-D       6   ────────── Check in drawer total
             ▪115.00
CHEK DEC AMT ▪110.00 ────────── Check declaration amount
OVER/SHORT   -5.00   ────────── Check declaration over/short
CHARGE1 SALE     1
             ▪15.00
CHARGE2 SALE     1   ────────── Charge 2 sale counter/total
             ▪5.00
CONV 1       ▪3.00   ────────── Foreign currency total
CONV 2       ▪0.00
DRWR TTL   ▪985.77   ────────── Drawer total

XXXXXXXXXXXXXXXXXXXXX
CLERK 1         27   ── Clerk's customer counter
NET        ▪947.00   ── Clerk's net sale total
NOSALE          17   ── Clerk's no sale counter
─────────────────────
CLERK 2          0
NET          ▪0.00
NOSALE           0
─────────────────────
CLERK 3          0
NET          ▪0.00
NOSALE           0
```

Clerk A —

```
MR.JOHN          0
NET          ▪0.00
NOSALE           0
XXXXXXXXXXXXXXXXXXXXX
GRAND
           ▪1023.70

CLERK 1   NO.000079
TIME 14:47      9999
```

GRAND total ──────

2. TIME REPORTS

A. X mode time report
   Ensure the CONTROL LOCK is in the X position.

B. Z mode time report
   Ensure the CONTROL LOCK is in the Z position.

C. X2 time report
   Ensure the CONTROL LOCK is in the X position.

D. Z2 time report
   Ensure the CONTROL LOCK is in the Z position.

2	SUBTOTAL

2	SUBTOTAL

2	0	2	SUBTOTAL

2	0	2	SUBTOTAL

* SAMPLE TIME REPORT *

```
DATE 12.26.'93     MON

X1 REPORT          0000
-----------------------
TIME

TIME : 12:00
  CNT               7          ──────── Activity counter
  SALES AMT   •555.00          ──────── Hour total
  SALE RATE    56.80%          ──────── Hour % of sales
TIME : 13:00
  CNT              14
  SALES AMT   •266.00
  SALE RATE    27.22%
TIME : 14:00
  CNT               6
  SALES AMT   •156.00
  SALE RATE    15.96%


TOTAL CNT          27          ──────── Total sales counter/total
TOTAL AMT    •977.00                        for all time period


CLERK 1     NO.000080
TIME 14:47       9999
```

3. PLU REPORT

A. X mode PLU report
Ensure the CONTROL LOCK is in the X position.

| 3 |—— SUBTOTAL

B. Z mode PLU report
Ensure the CONTROL LOCK is in the Z position.

| 3 |—— SUBTOTAL

C. X2 PLU report
Ensure the CONTROL LOCK is in the X position.

| 2 | 0 | 3 |—— SUBTOTAL

D. Z2 PLU report
Ensure the CONTROL LOCK is in the Z position.

| 2 | 0 | 3 |—— SUBTOTAL

4. FROM/TO PLU REPORT

A. X mode from/to plu report
Ensure the CONTROL LOCK is in the X position.

| | |—| P L U |——| | | |—| P L U |

PLU NO. a   PLU NO. b
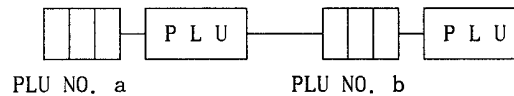
* SAMPLE PLU REPORT *

* a <= b

```
DATE 12.26.'93    MON

X1 REPORT        0000
---------------------
ALL PLU

PLU 10: ORANGE              ——— PLU NO. & descriptor
  LINKED DEPT        1
  CNT X1         13.50
  SALES AMT    ~~~~~~~~
```
```
  SALES AMT     •10.00
  SALE RATE      3.50%
PLU 100
  LINKED DEPT        6   ——— Linked dept.
  CNT X1          3.00   ——— Activity counter
  SALES AMT     •15.00   ——— PLU sale total
  SALE RATE      5.26%   ——— PLU % of sales

TOTAL CNT       29.00    ——— PLU total activity
TOTAL AMT     •285.00        counter/total

CLERK 1      NO.000081
TIME 14:47       9999
```

* SAMPLE FROM/TO PLU REPORT *

```
DATE 12.26.'93    MON

X1 REPORT        0000
---------------------
FROM/TO PLU

PLU 10: ORANGE
  LINKED DEPT        1
  CNT X1         13.50
  SALES AMT    •167.50
  SALE RATE     58.77%
PLU 20
  LINKED DEPT        2
  CNT X2         11.50
  SALES AMT     •92.50
  SALE RATE     32.45%

TOTAL CNT       25.00
TOTAL AMT     •260.00

CLERK 1      NO.000082
TIME 14:47       9999
```

5. CASH IN DRAWER REPORT

A. X mode cash-in-drawer report
   Ensure the CONTROL LOCK is in the X position.

```
┌───┐   ┌──────────┐
│ 4 ├───┤ SUBTOTAL │
└───┘   └──────────┘
```

6. CHECK IN DRAWER REPORT

A. X mode check-in-drawer report
   Ensure the CONTROL LOCK is in the X position.

```
┌───┐   ┌──────────┐
│ 5 ├───┤ SUBTOTAL │
└───┘   └──────────┘
```

7. DAILY REPORT

A. X mode daily sales report
   Ensure the CONTROL LOCK is in the X position.

B. Z mode daily sales report
   Ensure the CONTROL LOCK is in the Z position.

```
┌───┐   ┌──────────┐
│ 6 ├───┤ SUBTOTAL │
└───┘   └──────────┘
┌───┐   ┌──────────┐
│ 6 ├───┤ SUBTOTAL │
└───┘   └──────────┘
```

* SAMPLE CASH IN DRAWER REPORT *

```
┌─────────────────────────┐
│ DATE 12.26.'93    MON    │
│                          │
│ ✕1 REPORT        0000    │
│ ----------------------   │
│ CASH-IN-DRAWER           │
│                          │
│ TOTAL        ▪850.77     │
│                          │
│ CLERK 1    NO.000083     │
│ TIME 14:47       9999    │
└─────────────────────────┘
```

* SAMPLE DAILY REPORT *

```
┌─────────────────────────┐
│ DATE 12.26.'93    MON    │
│                          │
│ ✕1 REPORT        0000    │
│ ----------------------   │
│ DAILY SALES              │
│                          │
│ DAY : 25                 │
│  CNT              25      │
│  SALES AMT    ▪887.00    │
│ DAY : 26                 │
│  CNT               2      │
│  SALES AMT     ▪90.00    │
│                          │
│ TOTAL CNT         27      │
│ TOTAL AMT     ▪977.00    │
│                          │
│ CLERK 1    NO.000085     │
│ TIME 14:47       9999    │
└─────────────────────────┘
```

Activity counter ── CNT

Daily total ── SALES AMT

All daily counter/total ── TOTAL CNT / TOTAL AMT

* SAMPLE CHECK IN DRAWER REPORT *

```
┌─────────────────────────┐
│ DATE 12.26.'93    MON    │
│                          │
│ ✕1 REPORT        0000    │
│ ----------------------   │
│ CHECK-IN-DRAWER          │
│                          │
│ CNT               6      │
│ TOTAL        ▪115.00     │
│                          │
│ CLERK 1    NO.000084     │
│ TIME 14:47       9999    │
└─────────────────────────┘
```

8. INDIVIDUAL CLERK REPORT

A. X mode clerk report
   Ensure the CONTROL LOCK is in X position.

| SUBTOTAL |—| CLERK |

B. Z mode clerk report
   Ensure the CONTROL LOCK is in Z position.

| SUBTOTAL |—| CLERK |

C. X2 clerk report
   Ensure the CONTROL LOCK is in X position.

| 2 |—| 0 |—| SUBTOTAL |—| CLERK |

D. Z2 clerk report
   Ensure the CONTROL LOCK is in Z position.

| 2 |—| 0 |—| SUBTOTAL |—| CLERK |
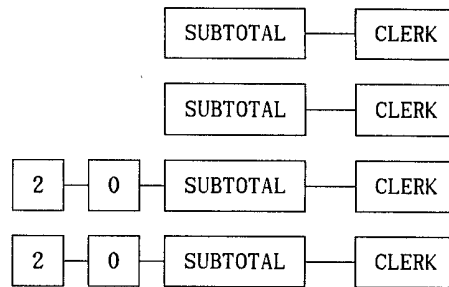
* SAMPLE INDIVIDUAL CLERK REPORT *

```
DATE 12.26.'93    MON

X1 REPORT        0000
------------------------
CLERK

CLERK 1           27
NET          -947.00
NOSALE            17

CLERK 1      NO.000086
TIME 14:47       9999
```

Clerk A ———— (CLERK 1 line)
(27) ———— Clerk's customer counter
(-947.00) ———— Clerk's net sale total
(17) ———— Clerk's no sale counter

- 75 -

```
DATE 12.26.'93    MON

X1 REPORT      0000
---------------------
CLERK

CLERK 1           27
NET          ▪947.00
Z 1               8
               -4.65
Z 2               1
               -1.00
Z 3               2
               ▪0.00
Z 4               3
              -11.55
CASH-IN-D    ▪850.77
CHECK-IN-D        6
             ▪115.00
CHARGE1 SALE      1
             ▪15.00
CHARGE2 SALE      1
              ▪5.00
CONV 1        ▪3.00
CONV 2        ▪0.00
DRWR TTL     ▪985.77
RTN               4
              -39.00
ERRCOR            1
              -15.00
PREV VD           1
              -10.00
MODE VD           1
              -20.00
CANCEL            3
              ▪64.50
AUDACT            2
              -44.50
NOSALE           19

CLERK 1     NO.000094
TIME 14:49       9999
```

- 76 -

9. FROM/TO DEPARTMENT REPORT

A. X mode from/to dept report
   Ensure the CONTROL LOCK is in X position.

```
┌──────┐       ┌──────┐
│ DEPT ├───────┤ DEPT │
└──────┘       └──────┘
   a               b
  * a <= b
```
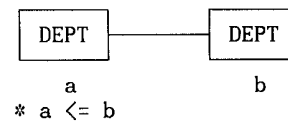
10. DEPARTMENT GROUP REPORT

A. X mode department group report
   Ensure the CONTROL LOCK is in X position.

```
┌───┬───┐   ┌──────────┐
│ 3 │ 0 ├───┤ SUBTOTAL │
└───┴───┘   └──────────┘
```

B. Z mode department group report
   Ensure the CONTROL LOCK is in Z position.

```
┌───┬───┐   ┌──────────┐
│ 3 │ 0 ├───┤ SUBTOTAL │
└───┴───┘   └──────────┘
```

C. X2 department group report
   Ensure the CONTROL LOCK is in X position.

```
┌───┬───┬───┐   ┌──────────┐
│ 2 │ 3 │ 0 ├───┤ SUBTOTAL │
└───┴───┴───┘   └──────────┘
```

D. Z2 department group report
   Ensure the CONTROL LOCK is in Z position.

```
┌───┬───┬───┐   ┌──────────┐
│ 2 │ 3 │ 0 ├───┤ SUBTOTAL │
└───┴───┴───┘   └──────────┘
```
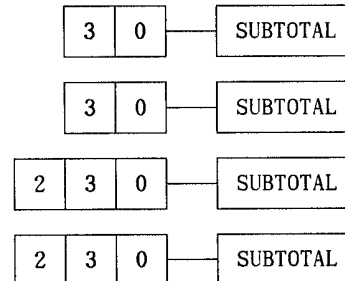
* SAMPLE FROM/TO DEPT. REPORT *

```
DATE 12.26.'93   MON

X1 REPORT       0000
--------------------
FROM/TO DEPT

DEPT.1: APPLE
 CNT X1        46.00
 SALES AMT   -492.40
 SALE RATE    49.89%
DEPT.2
 CNT X1        13.50
 SALES AMT   -112.50
 SALE RATE    11.39%
DEPT.3
 CNT X2        23.50
 SALES AMT   -220.95
 SALE RATE    22.38%

TOTAL CNT      83.00
TOTAL AMT    -825.85

CLERK 1    NO.000087
TIME 14:48     9999
```

* SAMPLE DEPT. GROUP REPORT *

```
DATE 12.26.'93   MON

X1 REPORT       0000
--------------------
DEPT GROUP

GROUP : 0
 CNT           95.00
 SALES AMT   -956.85
GROUP : 7
 CNT            3.00
 SALES AMT    -30.00

TOTAL CNT      98.00
TOTAL AMT    -986.85

CLERK 1    NO.000088
TIME 14:48     9999
```

All group counter/total —

GLOSSARY

ACTIVITY COUNTER : The activity counter keeps track of the number of items or entries is made on a department, PLU or function key.

AUDACTION : Refers to the total of all negative sale transactions.

COMPULSORY : When an operation is programmed compulsory, a function(ie. Non-add number entry) must be performed in order to complete the operation.

CONSECUTIVE NUMBER : A number appears at the bottom of each receipt and after each transaction on the journal tape. This number increases by one with each transaction, report, or scan.

DEPARTMENT(OPEN) : An open department is a department which stores its own activity count and amount total, and has a compulsory amount entry.

DEPARTMENT(PRESET) : A preset department is a department which stores its own activity count and amount total, and has a programmed price.

DETAIL : The detail tape records all of the operations on the register. This is the owners copy of all register activity.

HALO : The high amount lock-out (HALO) limits the amount allowed to be entered in a department, PLU, or function key.

HASH FUNCTION : Hash departments or PLU's add to the total of each sale and therefore are included in all media and drawer total. Like normal departments/ PLU's, hash departments/PLU's also add into a total of all hash departments and PLU's on the financial report.

LINK : Link is the ability to attach a PLU's activity to a department. The department sales total will include the activity of all its linked PLU's.

MEDIA : Media is the form of payment made. I.E cash, check, or charge.

OVERRIDE : Override is an operation used to bypass a programmed price or HALO.

POP-UP : When a function is programmed as a POP-UP function, it is valid for the duration of a single sale only. At the completion of that sale, the function reverts back to its default condition.

POST TENDERING : The post tendering feature allows the operator to use the ECR to compute change on cash transactions after the sale has been finalized.

PLU'S : Price look-ups (PLU's) are accessed by indexing a code number and depressing the PLU key. PLU's may be programmed with preset or open price. PLU's record their own activity count and total on the PLU report and report with their linked department on the department and financial reports.

PRESET CASH : Preset cash keys which enter their preset amount in cash and finalize the sale. These keys must be programmed to operate as cash key.

RECEIPT : A receipt is a printed tape given to the customer as a record of the sale transaction.

| REGISTER NUMBER | : The register number is a programmable number which prints on receipt and journal tapes. It identifies the electronic cash register the sale or report was performed on. |

REGISTER NUMBER : The register number is a programmable number which prints on receipt and journal tapes. It identifies the electronic cash register the sale or report was performed on.

STAY-DOWN : When a function is programmed as a stay-down function, it is valid until changed. A stay-down clerk remains signed on until either signed off, or another clerk is signed on. A stay-down level is in effect until another level key is depressed.

VALIDATION : A validation is a one-line print-out on an inserted slip verifying an operation.

TROUBLE SHOOTING

Check the following items if the cash register does not work correctly.

* Is the power cord pluggled into the mains socket correctly ?

* Is the wall outlet suppling power ?
  Try plugging in another appliance.

* Is the CONTROL LOCK in the correct position ?

* Did you change the position of the CONTROL LOCK during registration of the transaction ?
  If you set the CONTROL LOCK to another position while registration is in progress
  an error condition will occur.
  Return to the previous CONTROL LOCK position and press the correct keys to finalize the
  original transaction before changing the CONTROL LOCK setting.

MEMORY PROTECTION BATTERY

Totalized sales and other items are protected during power failures by a built in memory protection battery.

The memory protection battery is charging when the power is on and discharging when the power is off. This cause the capacity of the battery to decrease after approximately one year of use.

NOTE : A WEAK BATTERY HAS THE POTENTIAL OF LOSING VALUABLE TRANSACTION DATA.

A label on the back of the cash register show the normal service period of the battery installed in your cash register.

SPECIFICATION

* POWER   :   AC 220 - 240 V,   50 Hz

* CABINET   :   ABS (VO)

* PRINTER   :   ERP-300 : 2 STATION DOT-MATRIX PRINTER

* DISPLAY   :   FRONT 10 DIGITS / REAR 9 DIGITS

* DRAWER   :   METAL (8 COINS / 4 BILLS)

* WEIGHT   :   18 Kg

* DIMENSION   :   SET   - 380 (D) x 444 (W) x 211 (H)

                       DRAWER - 400 (D) x 450 (W) x 98 (H)

* USAGE CONDITION :   TEMPERATURE - 0 ℃ - 40 ℃

                       HUMIDITY   - 10 % - 90 %

* NOISE   :   UNDER 70 dB