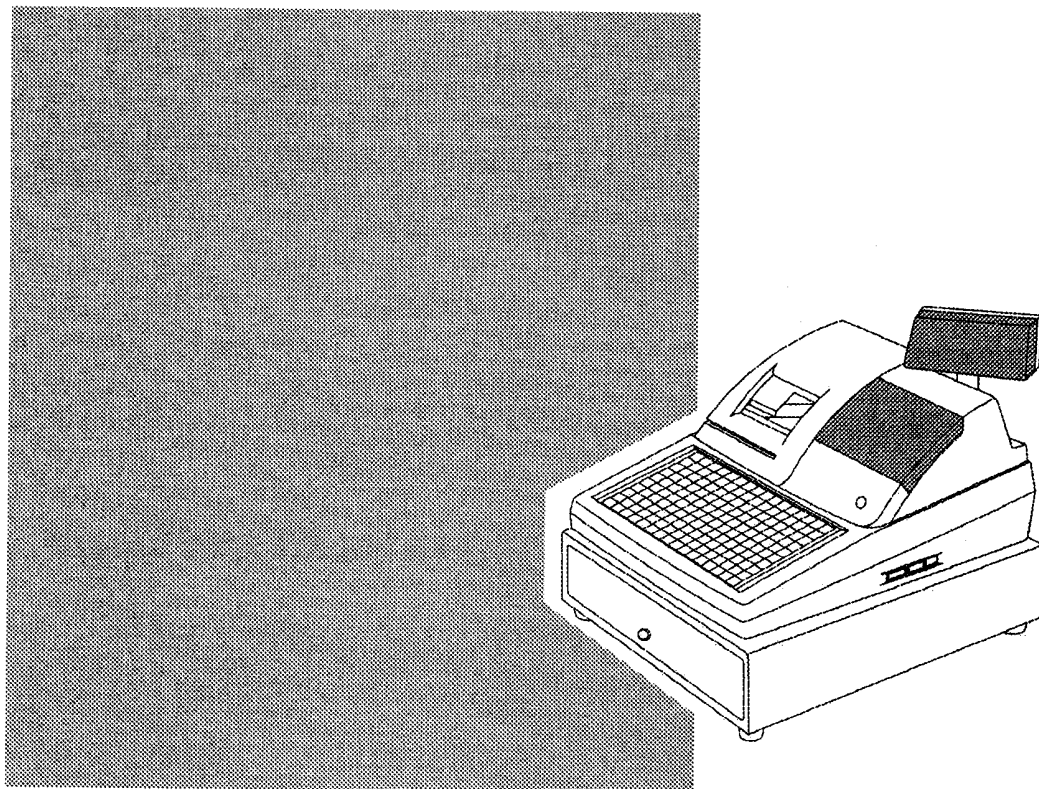


ER-5100

SAMSUNG

ELECTRONIC CASH REGISTER



Programming & Operating Manual

All specifications are subject to change without notice.

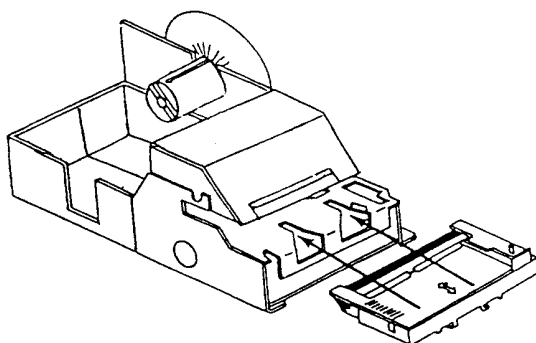
UNPACKING AND STARTING UP

STEP 1 UNPACKING THE CASH REGISTER

- (1) **Unpack and unwrap** your cash register.
- (2) The following items are **in the packing**.
 - **2 paper rolls**
 - **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 then **remove the printer cover**.
- (2) Locate the **ribbon cartridge** as shown in the illustration.
- (3) **Insert the ribbon cartridge** and press firmly into the place.
Remove any slack in the ribbon by rotating the cartridge knob counter-clockwise.

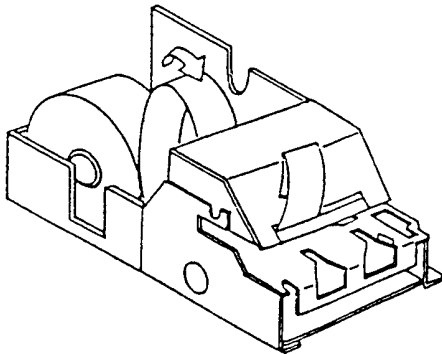


STEP 3 PUTTING THE PAPER IN THE PRINTER

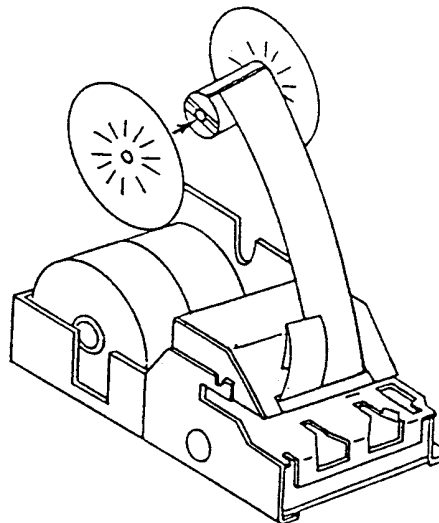
STEP 3.1 LOADING THE DETAIL PRINTER

- (1) **Plug** the cash register's power cord into the 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.
- (4) As you face the keyboard, **notice two plastic trays** at the bottom of the printer compartment.
Place one of the paper rolls into the tray on the right.
Make sure the paper will unwind from the bottom of the roll.
- (5) **Fold back about 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 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 times to be sure that 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.
- (9) **Press the "DETAIL FEED" key** several times again to make sure that the paper moves properly through the printer.

NOTE : The socket-outlet shall be near the equipment and it shall be easy accessible.



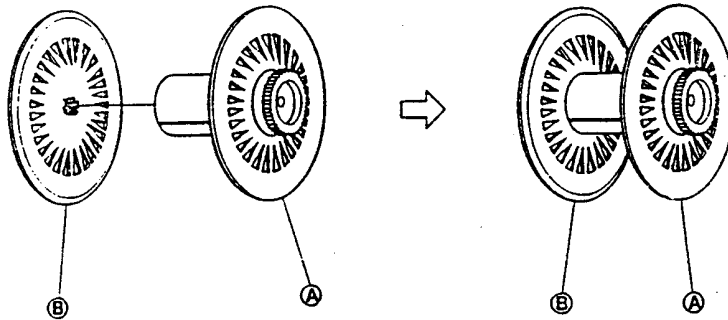
* LOADING DETAIL PAPER *



* LOADING RECEIPT PAPER *

< THE FABRICATION OF REWIND SPINDLE >

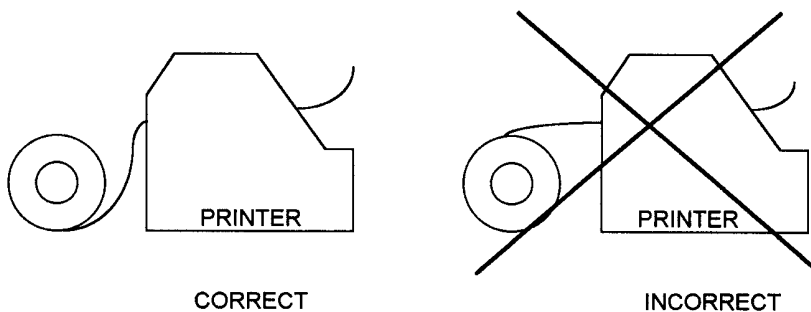
- (1) Locate the black plastic rewind spindle (A) in the Styrofoam.
- (2) Locate the black plastic rewind spindle (B) in the manual bag.
- (3) Fabricate the black plastic rewind spindle (A) and (B) as shown in the illustration.



STEP 3.2 LOADING THE RECEIPT PRINTER

- (1) **Place the other paper rolls** into the small tray on the left.
Make sure the paper will unwind from the bottom of the roll.
- (2) **Fold back about 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.
- (3) **Press the "RECEIPT FEED"** key on the keyboard until the paper comes through the printer.
Run 3 ~ 4 inches of paper through the printer.
- (4) **Replace the printer cover** and make sure that **the receipt paper comes out through the opening** in the printer cover.

NOTE : Do not pull the paper back through the printer as this may damage it.



STEP 4 CLEARING THE RAM (RANDOM ACCESS MEMORY)

- (1) **Unplug** the cash register.
- (2) Locate the **control lock key** marked 'C'.
- (3) **Insert the key** into the control lock and **turn clockwise, past the "P" position** 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 holding the "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 cash register is programmed and operated, clearing the RAM will cause all programs and totals to be lost.

WARNING : Do not open the printer cover while operating the cash register. Do not operate the cash register without the ribbon cartridge.

NOTE : When you firstly configure the cash register, it is recommended that the register remains powered on in the "REG" mode for at least 24 hours. This allows the Ni-Cad battery, which maintains the memory of the machine while the power is off, to charge completely.

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FEATURES

- * Two-station printer with one-line validation capability.
- * Front and rear (pop-up) displays.
- * 6-position control locks.
- * 24 hour time clock with automatic date change.
- * 321 departments (3 level system).
- * 1000 open or preset PLUs.
- * 4 push-button clerks and 15 soft clerks with separate report totals.
- * 4 VAT or straight percentage TAX.
- * CANCEL function.
- * Post tendering.
- * Preset cash tendering.
- * Table management / Cashier overlap
- * Management reports.
 - Daily and period-to-date financial, time, PLU, clerk and department report.
 - Daily sales report.
 - Open table (or Open clerk) report.
 - Optional compulsory cash declaration.
- * Train mode.
- * Cash drawer compulsory.
- * Receipt on/off function.
- * Communication
 - Download the programming contents from PC, Upload the programming contents and reports to PC.
 - Slip printer
 - Kitchen printer
 - Scale

KEYBOARD LAYOUT

RECEIPT FEED	DETAIL FEED	RECEIPT ON/OFF	28	38	48	58	68	78	88	98	VALID	CLERK 1	CLERK 2	CLERK 3	CLERK 4
1	10	19	29	39	49	59	69	79	89	99	RECEIPT	MDSE RETURN	CHECK TENDER	REC'D ACCT	PAID OUT
2	11	20	30	40	50	60	70	80	90	100	TAX	VOID	ADD CHECK	EAT IN	CHARGE 1
3	12	21	31	41	51	61	71	81	91	101	LEVEL 1	CANCEL	CONV 1	TAKE OUT	CHARGE 2
4	13	22	32	42	52	62	72	82	92	102	LEVEL 2	#/NS	CONV 2	DRIVE THRU	CHECK
5	14	23	33	43	53	63	73	83	93	103	LEVEL 3	CLEAR	PLU	X/TIME	PRESET CASH
6	15	24	34	44	54	64	74	84	94	104	PRICE INQ.	7	8	9	PRESET CASH
7	16	25	35	45	55	65	75	85	95	105	CHECK #	4	5	6	PRESET CASH
8	17	26	36	46	56	66	76	86	96	106	% 1	1	2	3	SUBTL
9	18	27	37	47	57	67	77	87	97	107	% 2	0	00		CASH/ TEND

FUNCTION	KEY	DESCRIPTION
----------	-----	-------------

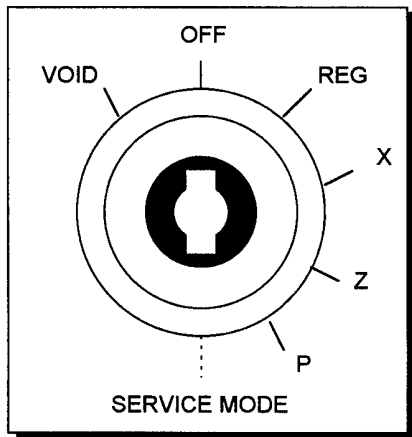
<u>KEY</u>	<u>DESCRIPTION</u>
1, 2 ... 9, 0, 00	Use these numeric keys for all numeric entries on the cash register.
ADD CHECK	Use this key to combine individual guest checks that will be tendered together.
CANCEL	Use this key to cancel the present incomplete transactions without updating the departments, PLUs or function key totals.
CASH/TEND	Use this key to finalize a sale paid with cash. Enter the amount tendered before pressing the "CASH/TEND" key for change calculation.
CHARGE 1, 2	Use these keys to finalize a sale paid with a charge account. Over tendering is not allowed when you finalize with the "CHARGE" key.
CHECK	Use this key to finalize a sale that is paid by check.
CHECK #	Use this key to specify the table number on table management.
CHECK TENDER	Use this key to tender a table as open status.
CLEAR	Use this key to clear the incorrect entries made on the 10 numeric keys and error conditions.
CLERK 1, 2, 3, 4	Use these four keys to log on clerks for operation and reports. <i>A clerk must be logged on before the cash register will operate.</i>
CONV 1, 2	Use these keys to convert a home currency to the equivalent of another country's currency. These keys are allowed after the "SUBTL" key, convert and re-display the subtotal at a preprogrammed exchange rate. Tendering is allowed after using the currency conversion function. The change amount is calculated in home currency. The amount of foreign currency tendered is stored in a separated total on the financial report, but not added to the drawer total.
DECIMAL (.)	Use this key for decimal multiplication.
DEPARTMENTS	Use these keys to make entries during a sale.
DETAIL FEED	Press this key to advance the detail tape.
DRIVE THRU	Use this key for a sale that will be driven through.
EAT IN	Use this key for a sale that will be ate in restaurant or etc.
LEVEL 1 ~ 3	Use these keys to make department level.
MDSE RETURN	Use this key to return merchandise outside of a 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 or to enter numbers that appear on the receipt and detail tapes but do not affect the sale total.

<u>KEY</u>	<u>DESCRIPTION</u>
% 1, % 2	Use these keys to register discount and surcharge. Depending on programming, these keys can be used to register percent or amount and added to an item or entire sale.
PLU	Use this key to register a Price Look Up (PLU).
PAID OUT	Use this key to register media removed from the cash drawer. (= Paid Out)
PRESET CASH	Use this key to finalize a sale paid with cash. These keys are preset amount cash tendering keys which have programmable values. By pressing this key at the end of a transaction, the preset amount is automatically tendered and the sale is finalized as a cash transaction.
PRICE INQ.	Use this key to know a HALO or preset amount of a department or PLU. (= Price Inquiry)
RECD ACCT	Use this key to register cash and check added to the cash drawer. (= Received Account)
RECEIPT	Use this key to issue the buffered receipt.
RECEIPT FEED	Press this key to advance the customer's receipt tape.
RECEIPT ON/OFF	Use this key to turn the receipt printer on or off. When the 'RECEIPT OFF' sign is illuminated on the display panel, the receipt printer will be turned off.
SUBTL	Use this key to display a subtotal.
TAKE OUT	Use this key for a sale that will be taken out.
TAX	Use this key to breakdown the amount due including value added tax or to shift the tax status of a particular department or PLU.
VALID	Use this key to print one line validation on a check or slip.
VOID	Use this key to correct entries before a sale is finalized.
X/TIME	Use this key for multiplication, split pricing and triple multiplication.

CONTROL LOCK

POSITION	USE
VOID	Void outside of a sale.
OFF	The cash register will not operate.
REG	All normal operations.
X	To issue X level reports. Also used for manager control of voids & merchandise return.
Z	To issue Z level reports. To reset totals to zero.
P	To program the ECR (Electronic Cash Register)

CONTROL KEYS



'REG' key : "OFF" ~ "REG"

'VD' key : "VOID" ~ "X"

'Z' key : "VOID" ~ "Z"

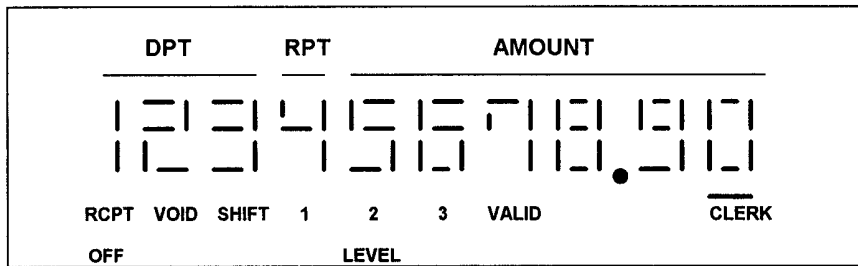
'P' key : "VOID" ~ "P"

'C' key : All position

DISPLAY

This cash register has a **front (or operator) display** and a **pop up display**.

The **front display** has a **indicator lights**. These lights provide only the operator with information about the operation of the cash register.



DISPLAY SYMBOLS

- C** Indicates that the amount displayed is a due as **change**.
- =** Indicates that the amount displayed is a **total**.
- Indicates that the amount displayed is **negative**.
This symbol shows directly in front of negative amount.
- S** Indicates that the amount displayed is a **subtotal**.
- F** Indicates that a **table** on table management or a **clerk** on cashier overlap is temporarily **finalized as open status**.
- S P** Indicates that **validation is required**.
- P P** Indicates **paper jam**.
Please turn the power off and remove the paper in the printer, turn the power on again.
- P E** Indicates **paper ending**.
Please remove the printer cover and replace the paper.
And press the "CLEAR" key to print continually.

- C L** Indicates that **a clerk must be signed on** for operating in the 'X' or 'Z' mode.
- E 1** Indicates **an error condition**.
Press the **"CLEAR"** key to clear this condition.
- E 2** Indicates that **the cash drawer must be closed**.
- E 4** Indicates that **NON-ADD NUMBER** should be entered.
- E 5** Indicates that the **ADD CHECK** operation must be performed.
- E 6** Indicates that the **cash declaration** operation must be performed.
- E 7** Indicates that **EAT-IN / TAKE-OUT / DRIVE-THRU** procedure must be performed before tendering.
- E 8** Indicates that **now a table is open**.
- E 9** Indicates that **all the open tables or clerks must be finalized**.
- E 1 0** Indicates that **the sale data is too big**.
Please **issue all Z report**. ('100' - 'SUBTL' in Z mode)
- E 1 1** Indicates that **the scale runtime over**.
- E 1 2** Indicates that **the scale is not measurable things on the scale**.
- E 1 3** Indicates that the **open drawer warning tone sounds** by the open drawer alarm.
Please **close the cash drawer**.
- E 1 4** Indicates that **the slip printer is disconnected**.
Please check if the slip printer is connective.
- no PAP** Indicates that **the paper run out on the EPSON TM-290 II**.
Please **insert the paper** to the slip printer and press the **"CLEAR"** key.

PROGRAMMING NOTE

This ECR (Electronic Cash Register) 's programming is easy.

In this manual, the programming steps are explained with **flow chart boxes**.

Each box represents a key on the keyboard.

The flow chart shows each key stroke you need to complete the programming.

Enter the keys in the flow chart from left to right.

DEFAULT PROGRAM : *This machine arrives with a default or "generic" program already installed.*

Program options are set to 0(zero), unless otherwise noted, which means 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.

1.1 RAM CLEARING

1.1.1 INITIAL CLEAR

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

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

(1) Turn the keylock to the '**P**' *position* and press the "**SUBTL**" *key*.

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

Continue to hold the "**SUBTL**" key down until the receipt printer stops printing and the display shows 0.00.

```
DATE 12.25.'96 WED
*****
INITIAL CLEAR !
-----
CLERK 00    NO.000002
TIME 19:02    0000
```

* INITIAL CLEAR *

1.1.2 CLEARING TOTALS FROM MEMORY

A. ALL MEMORY RAM CLEAR

All programming and totals are cleared.

Use this procedure the first time when the cash register is programmed.

B. RESET ALL TOTALS & COUNTERS

All totals and counters are cleared. (Consecutive NO. , Z-Counter, Grand total)

This procedure will not effect register programming.

C. RESET GRAND TOTAL ONLY

The Grand total is only cleared.

- (1) **Unplug** the cash register.
- (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). 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 cash register.

Continue to hold the specified key down until the receipt printer stops printing and the display shows 0.00.

KEY	TYPE
00	ALL MEMORY RAM CLEAR
CHECK	RESET ALL TOTALS & COUNTERS
CASH/TEND	RESET GRAND TOTAL ONLY

```
DATE 12.25.'96 WED
*****
RAM ALL CLEAR !
-----
CLERK 00  NO.000001
TIME 19:02:45  0000
```

```
DATE 12.25.'96 WED
*****
RESET ALL CNT/TOTAL !
-----
CLERK 00  NO.000001
TIME 19:03:10  0000
```

```
DATE 12.25.'96 WED
*****
RESET GRAND TOTAL !
-----
CLERK 00  NO.000002
TIME 19:03:17  0000
```

* ALL MEMORY RAM CLEAR *

* RESET ALL TOTALS & COUNTERS *

* RESET GRAND TOTAL ONLY *

1.2 SETTING THE DEPARTMENTS ORDER

The presence of shift keys for levels 1, 2 & 3 allow three "stacking" department to a key position.

This gives 107 department key locations three levels each, or 321 departments in all.

The way that setting the department order is two.



= Default department order system

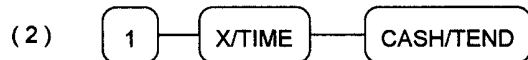
= Departments 1 ~ 107 will occupy key

positions 1 ~ 107, level 1.

Departments 108 ~ 214 will occupy

key position 1 ~ 107, level 2, and so on.

	RECEIPT FEED	DETAIL FEED	RECEIPT ON/OFF	28 135 242 28
LEVEL 1 =	1	10	19	29
LEVEL 2 =	108	117	126	136
LEVEL 3 =	215 1	224 10	233 19	243 29
	2	11	20	
	109	118	127	
	216 2	225 11	234 20	
	3	12		
	110	119		
	217 3	226 12		
	4			
	111			
	218 4			



= Department key position number 1 will

be occupied by department 1, 2 and 3

on levels 1, 2 and 3.

Department key position number 2 will

be occupied by department 4, 5 and 6

on levels 1, 2 and 3....

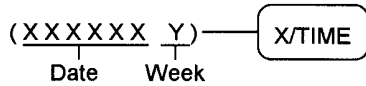
	RECEIPT FEED	DETAIL FEED	RECEIPT ON/OFF	82 83 84 28
LEVEL 1 =	1	28	55	85
LEVEL 2 =	2	29	56	86
LEVEL 3 =	3 1	30 10	57 19	87 29
	4	31	58	
	5	32	59	
	6 2	33 11	60 20	
	7	34		
	8	35		
	9 3	36 12		
	10			
	11			
	12 4			

2 P MODE PROGRAMMING

2.1 DATE & TIME PROGRAMMING

2.1.1 DATE PROGRAMMING

- (1) 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 25 : Page 40**)
- (2) Press the "**X/TIME**" key.



2.1.2 TIME PROGRAMMING

- (1) Enter **standard military time** in the form of **HH MM**.
- (2) Press the "**X/TIME**" key.

EX) 25 DECEMBER 1996, WEDNESDAY

12 : 00 noon

(1225963) — X/TIME

(1200) — X/TIME

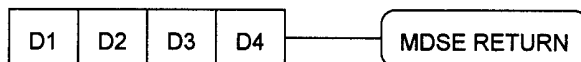
In military time noon = 1200
midnight = 0000
1 : 30 PM = 1330
and so on.

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

DATE 12.25.'96 WED
TIME 12:00

2.2 REGISTER NUMBER PROGRAMMING

- (1) Enter the **register number** up to **4 digits**.
- (2) Press the "**MDSE RETURN**" key.



MACHINE NO. 9999

2.3 TAX PROGRAMMING

You can program **4 tax rates** on this cash register.

This cash register can calculate tax by **two methods** :

- A. VAT (Value Added Taxes) : **Inclusive VAT**
- B. Straight percentage taxes : **Exclusive VAT**

IMPORTANT : To program tax as INCLUSIVE, set SYSTEM OPTION ADDRESS 4 to 0.

To program tax as EXCLUSIVE, set SYSTEM OPTION ADDRESS 4 to 1.

NOTE : If you clear RAM, the machine has the INCLUSIVE TAX SYSTEM.

2.4 VAT RATE PROGRAMMING

- (1) Press the **VAT number (1, 2, 3 or 4)** and the **"TAX"** key.
- (2) Enter the **percentage** of tax from the numeric key pad.

You must use **the decimal (.) key**.

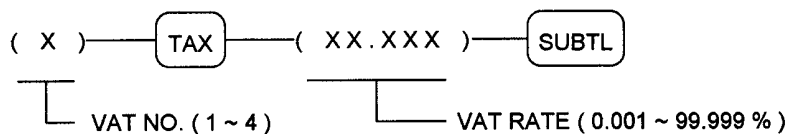
EX) 10 % tax by entering : 1 0 . 0 0 0

6.25 % tax by entering : 6 . 2 5 0

NOTE : You must enter 3 number after the decimal key.

- (3) Press the **"SUBTL"** key.

If you want to use the **TAX ROUNDING SYSTEM**, refer to **SYSTEM OPTION ADDRESS 38**



2.5 DEFAULT LEVEL PROGRAMMING

The default level programming is the "top" or "surface" level returned to after each department when options are set for pop-up levels. (Refer to **SYSTEM OPTION ADDRESS 57**, Page 42)

EX)



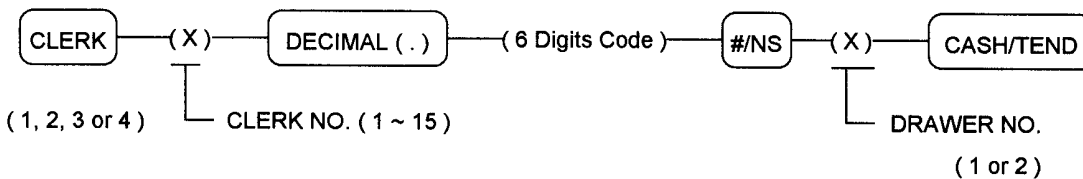
DEFAULT LEVEL	2
---------------	---

2.6 CLERK SECRET CODE & DRAWER ASSIGNMENT PROGRAMMING

NOTE : If you want to use 15 clerks system, you should set the SYSTEM OPTION ADDRESS 28 to 4 (Page 40).

When you want to use the **CLERK CODE SYSTEM**, you should set the **SYSTEM OPTION ADDRESS 28**. This programming assigns a clerk code number to each clerk. The **code number** is used by the clerk to **log on** for operations.

- (1) Press the one of "CLERK (1, 2, 3 or 4)" keys. **Any clerk key makes no difference.**
- (2) Press the **clerk number (1 ~ 15)** and press the "DECIMAL POINT (.)" key.
- (3) Enter the **clerk secret code up to 6 digits**, and then press the "#/NS" key.
- (4) Press the **drawer number '1' or '2'** and then press the "CASH/TEND" key to finalize the clerk programming.

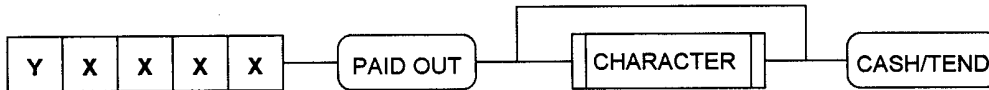


NOTE : Default drawer assignment for all clerks is drawer 1.

2.7 DESCRIPTOR PROGRAMMING

You can program descriptors for each **DEPARTMENT**, **PLU**, **CLERK**, **DEPARTMENT GROUP**, **SOME FUNCTION KEYS** and **RECEIPT MESSAGE** using the following programming procedure.

2.7.1 PROGRAMMING

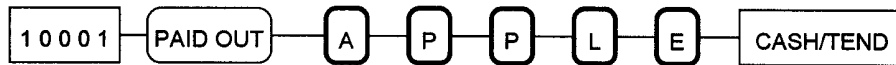


NOTE : Refer to "ALPHA-NUMERIC KEYBOARD LAYOUT" (Page 88) for entering characters.

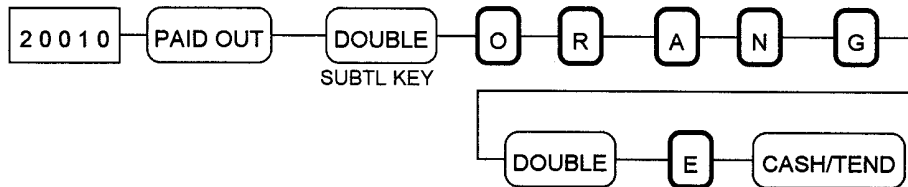
STANDARD DESCRIPTOR	ADDRESS Y	NUMBER X X X X	CHARACTER LENGTH	REMARKS
DEPARTMENT	1	0001 ~ 0321	12 CHAR.	
PLU	2	0001 ~ 1000	12 CHAR.	
CLERK	3	0001 ~ 0015	12 CHAR.	
GROUP0	3	0 0 1 6	12 CHAR.	
GROUP1	3	0 0 1 7	12 CHAR.	
GROUP2	3	0 0 1 8	12 CHAR.	
GROUP3	3	0 0 1 9	12 CHAR.	
GROUP4	3	0 0 2 0	12 CHAR.	
GROUP5	3	0 0 2 1	12 CHAR.	
GROUP6	3	0 0 2 2	12 CHAR.	
GROUP7	3	0 0 2 3	12 CHAR.	
GROUP8	3	0 0 2 4	12 CHAR.	
GROUP9	3	0 0 2 5	12 CHAR.	
CASH	3	0 0 2 6	12 CHAR.	
CHECK	3	0 0 2 7	12 CHAR.	
CHG1	3	0 0 2 8	12 CHAR.	
CHG2	3	0 0 2 9	12 CHAR.	
CHANGE	3	0 0 3 0	12 CHAR.	
TOTAL	3	0 0 3 1	12 CHAR.	
RECD ACCT	3	0 0 3 2	12 CHAR.	
PAID OUT	3	0 0 3 3	12 CHAR.	
NON-ADD#	3	0 0 3 4	12 CHAR.	
ADD CHECK	3	0 0 3 5	12 CHAR.	
NO SALES	3	0 0 3 6	12 CHAR.	
ERR CORRECT	3	0 0 3 7	12 CHAR.	
PREV VOID	3	0 0 3 8	12 CHAR.	
RETURN	3	0 0 3 9	12 CHAR.	
ALL CANCEL	3	0 0 4 0	12 CHAR.	
% 1	3	0 0 4 1	12 CHAR.	
% 2	3	0 0 4 2	12 CHAR.	
CONV 1	3	0 0 4 3	12 CHAR.	
CONV 2	3	0 0 4 4	12 CHAR.	
EAT-IN	3	0 0 4 5	12 CHAR.	
TAKE-OUT	3	0 0 4 6	12 CHAR.	
DRIVE-THRU	3	0 0 4 7	12 CHAR.	
RCPT MSG	4	0001 ~ 0004	21 CHAR.	PREAMBLE
RCPT MSG	4	0005 ~ 0006	21 CHAR.	POSTAMBLE

2.7.2 DESCRIPTOR PROGRAMMING EXAMPLES

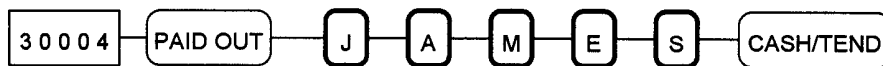
(1) DEPT.1 = APPLE



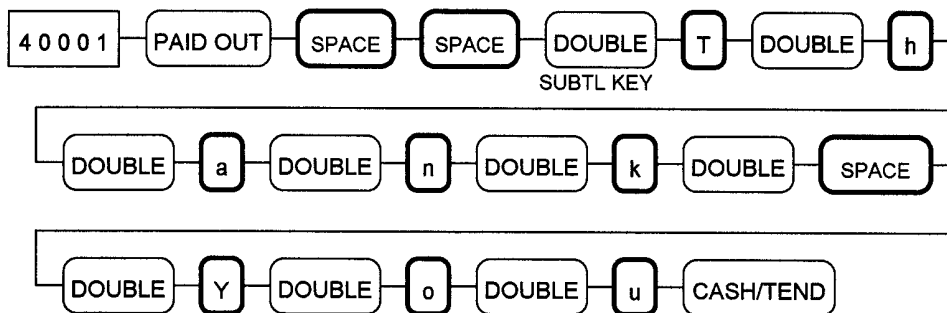
(2) PLU 10 = ORANGE



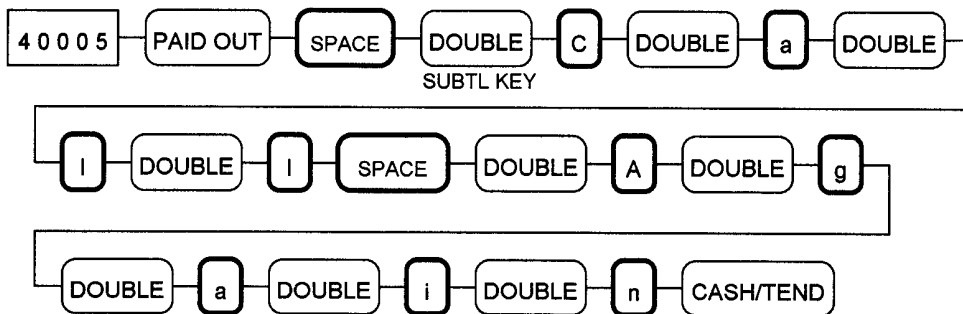
(3) CLERK 4 = JAMES



(4) PREAMBLE MESSAGE LINE 1 = Thank You



(5) POSTAMBLE MESSAGE LINE 1 = Call Again



2.7.3 DESCRIPTOR PROGRAMMING SCAN

CASH/TEND

PAID OUT

```

DATE 12.25.'96  WED
-----
DESCRIPTOR SCAN
-----
DEPT.1:APPLE
-----
PLU10: ORANGE
-----
CLERK1:
CLERK2:
CLERK3:
CLERK4: JAMES
CLERK5:
CLERK6:
CLERK7:
CLERK8:
CLERK9:
CLERK10:
CLERK11:
CLERK12:
CLERK13:
CLERK14:
CLERK15:
GROUP0 :
GROUP1 :
GROUP2 :
GROUP3 :
GROUP4 :
GROUP5 :
GROUP6 :
GROUP7 :
GROUP8 :
GROUP9 :
    
```

Dept. descriptor

Function key descriptor

PLU descriptor

Clerk descriptor

Group descriptor

Receipt preamble

Receipt postamble

```

CASH :
CHECK :
CHG1 :
CHG2 :
CHANGE :
TOTAL :
R/A :
P/O :
NON-ADD# :
ADD CHK :
NO SALES :
ERR CORR :
PREV UD :
RETURN :
CANCEL :
Z 1 :
Z 2 :
CONV 1 :
CONV 2 :
EAT-IN :
TAKE-OUT :
DR-THRU :
-----
Thank You
-----
Call Again
-----
CLERK 00 NO.000004
TIME 12:04 9999
    
```

2.8 DEPARTMENT PROGRAMMING

* HASH Department *

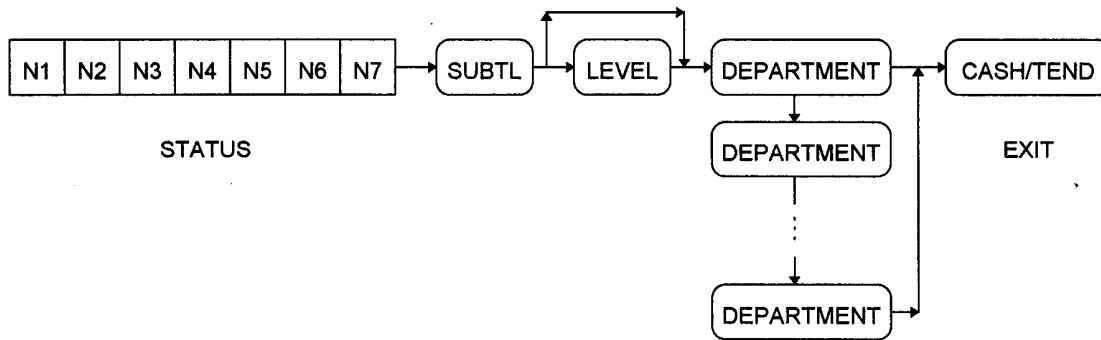
- Typically **HASH department** may be used to register items such as **delivery charges** or **lottery sales** that a merchant may not want to appear in accumulated sales totals.
- Sales registered into **HASH department** do **not add to the grand total, gross sales total** and may also be **programmed not to add to the net sales total**.
- **HASH departments add to the total of each sale** and therefore are included in **all media** and the **drawer totals**. Like normal departments, **HASH departments** also add to a **total of all HASH departments and PLUs** on the **financial report**.
- **SYSTEM OPTION ADDRESS 10** is used to select whether **HASH department totals add to the net sales total** or not.

2.8.1 DEPARTMENT STATUS PROGRAMMING

A. PROGRAMMING OPTION

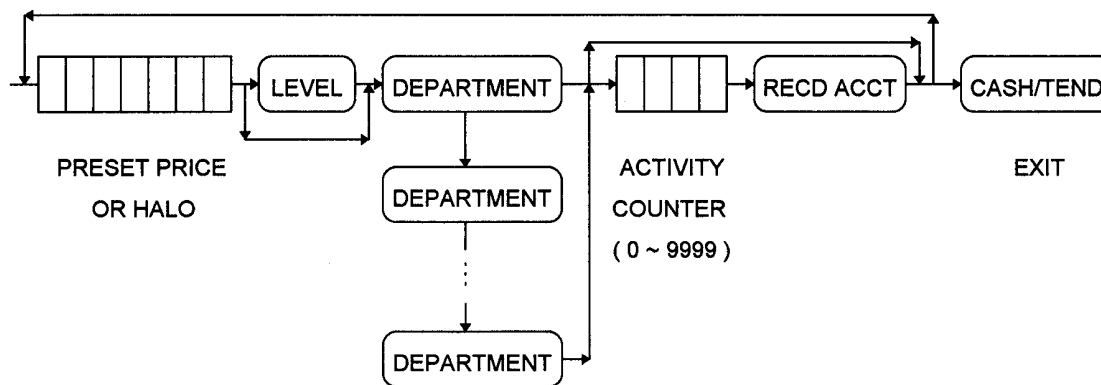
PROGRAMMING OPTION	VALUE			OPTION DIGIT
Department GROUP NO.	0 ~ 9			N 1
Resettable counter, counter will increase.	0			N 2
Nonresettable counter, counter will increase.	1			
Resettable counter, counter will decrease.	2			
Nonresettable counter, counter will decrease.	3			
HASH department feature	a	YES = 1	NO = 0	N 3 = 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 4 = a + b + c
Department is SINGLE ITEM.	b	YES = 2	NO = 0	
VALIDATION compulsory	c	YES = 4	NO = 0	
Department is OPEN (HALO).	0			N 5
Department is PRESET.	1			
Department is DISABLED.	2			
Department is not taxable.	0			N 6
Department is taxable by VAT 1.	1			
Department is taxable by VAT 2.	2			
Department is taxable by VAT 3.	3			
Department is taxable by VAT 4.	4			
Department is taxable by VAT 1 & 3.	5			
Department is printed on KITCHEN PRINTER	a	YES = 1	NO = 0	N 7

B. PROGRAMMING



2.8.2 DEPARTMENT PRICE OR HALO PROGRAMMING

A zero amount entry for open department will set the HALO (High Amount Lock Out) at the maximum seven digits (99999.99) for standard department, and five digits (99.999) for gallonage department. Zero preset departments are allowed.



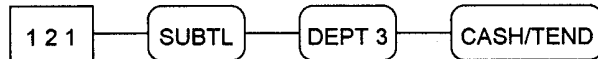
2.8.3 DEPARTMENT PROGRAMMING EXAMPLES

A. DEPARTMENT STATUS PROGRAMMING

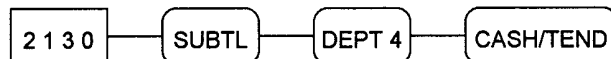
EX 1) Program 'DEPT 1' and 'DEPT 2'. 'DEPT 1' and 'DEPT 2' are VAT 1 and KP items.



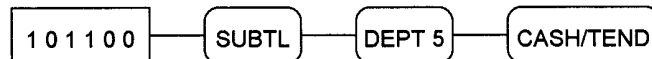
EX 2) Program 'DEPT 3' so it is a PRESET department, VAT 2 and a KP item.



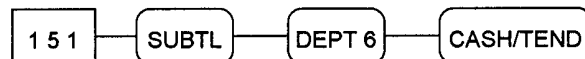
EX 3) Program 'DEPT 4' so it is a PRESET, SINGLE ITEM department and VAT 3.



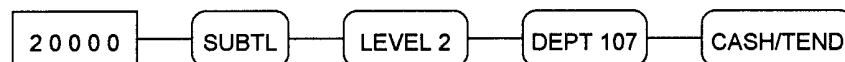
EX 4) Program 'DEPT 5' so it is a NEGATIVE PRESET and NON TAX with nonresettable and increasing counter.



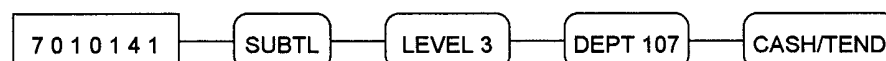
EX 5) Program 'DEPT 6' so it is a PRESET, VAT 1 & 3 and a KP item.



EX 6) Program 'DEPT 214' so it is a GALLONAGE and NON TAX.

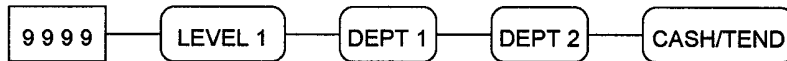


EX 7) Program 'DEPT 321' so it is accumulated to GROUP 7 and HASH, PRESET and VAT 4.
'DEPT 321' is a KP item.



B. DEPARTMENT PRICE OR HALO PROGRAMMING

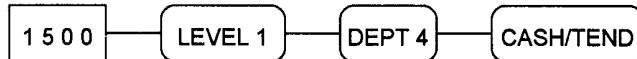
EX 1) Program 'DEPT 1' and 'DEPT 2'. 'DEPT 1' and 'DEPT 2' have a @99.99 HALO.



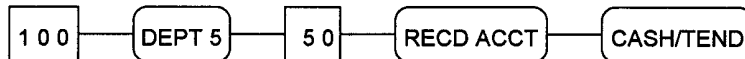
EX 2) Program 'DEPT 3', 'DEPT 6' and 'DEPT 321'. These departments have a price @10.00.



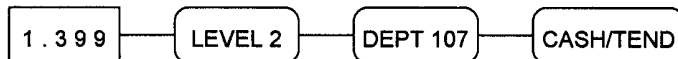
EX 3) Program 'DEPT 4' so it has a price @15.00.



EX 4) Program 'DEPT 5' so it has a price @1.00 and activity counter is 50.



EX 5) Program 'DEPT 214' so it has a price @1.399 (Gallonage Price).



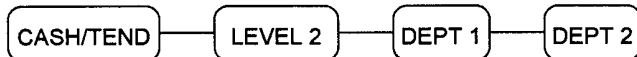
2.8.4 DEPARTMENT PROGRAMMING SCAN

- (1) Press the "CASH/TEND" key.
- (2) Press the first "DEPARTMENT" key you want to scan.
- (3) Press the last "DEPARTMENT" key you want to scan.

If you want to scan only one department, press the same "DEPARTMENT" key twice.

NOTE : The first department number \leq The last department number

EX) To scan dept. 108 ~ 109



```

DATE 12.25.'96 WED
*****
DEPARTMENT SCAN
*****
DEPT.1:APPLE
STAT X1      11
CNT +        0.00
HALO AMT     @99.99
DEPT.2
STAT X1      11
CNT +        0.00
HALO AMT     @99.99
DEPT.3
STAT X2      121
CNT +        0.00
PRESET AMT   @10.00
DEPT.4
STAT X3      2130
CNT +        0.00
PRESET AMT   @15.00
DEPT.5
STAT         101100
CNT +        50.00
PRESET AMT   -1.00
DEPT.6
STAT X1&3    151
CNT +        0.00
PRESET AMT   @10.00
DEPT.7
STAT         0
CNT +        0.00
HALO AMT     @0.00
  
```

——— Dept.1 descriptor
 ——— Status : Taxable by tax 1 & KP item
 ——— Activity counter
 ——— HALO amount

Gallonage dept.
 (Price 1.399)

——— Preset amount

Hash dept. ———

——— Activity counter : 50

——— Taxable by tax 1 & tax 3

Open dept. ———

```

DEPT.213
STAT         0
CNT +        0.00
HALO AMT     @0.00
DEPT.214
STAT         20000
CNT +        0.00
<GAL> AMT    @1.399
DEPT.215
STAT         0
CNT +        0.00
HALO AMT     @0.00
  
```

```

DEPT.320
STAT         0
CNT +        0.00
HALO AMT     @0.00
DEPT.321
STAT <HASH> X4
              7010141
CNT +        0.00
PRESET AMT   @10.00

CLERK 00     NO.0000007
TIME 12:06   9999
  
```

2.9 PLU PROGRAMMING

HASH PLU's operation is the same as HASH department operation.

PLU is registered by sequential index (1 ~ 1000) or by PLU code (1 ~ 99999999) that you program.

(SYSTEM OPTION ADDRESS 9, Page 38)

2.9.1 PLU PROGRAMMING

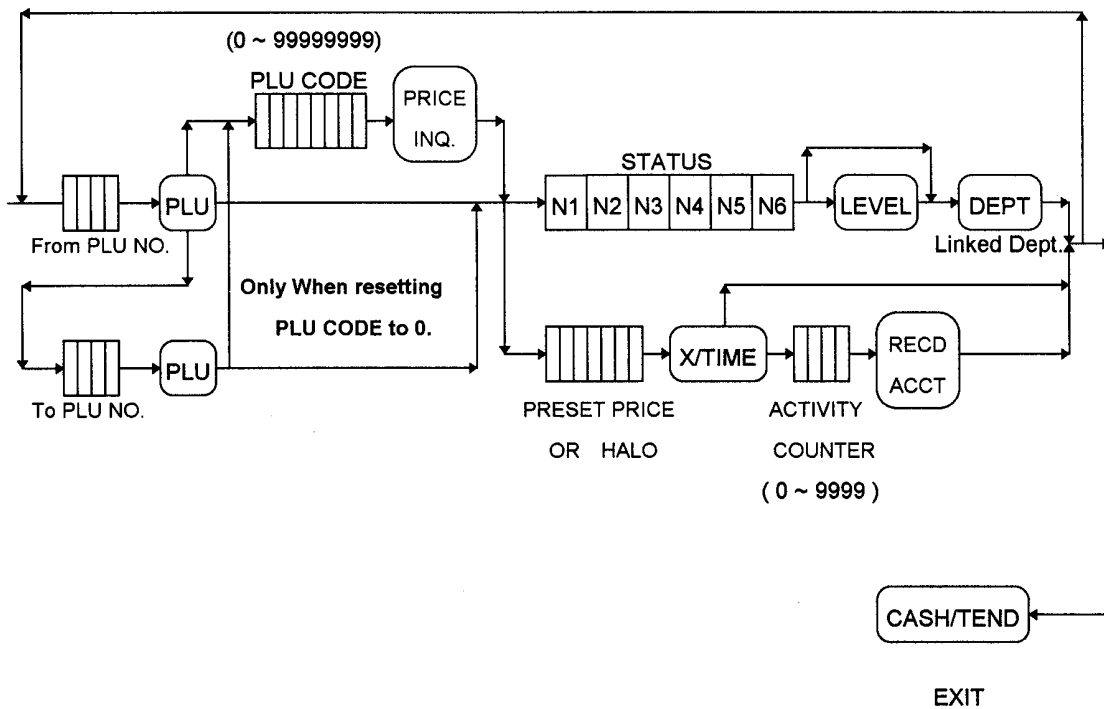
A. PROGRAMMING OPTION

PROGRAMMING OPTION	VALUE			OPTION DIGIT
<i>Resettable counter, counter will increase.</i>	0			N 1
<i>Nonresettable counter, counter will increase.</i>	1			
<i>Resettable counter, counter will decrease.</i>	2			
<i>Nonresettable counter, counter will decrease.</i>	3			
<i>HASH PLU feature</i>	a	YES = 1	NO = 0	N 2 = a + b + c
<i>GALLONAGE PLU feature</i>	b	YES = 2	NO = 0	
<i>NON-ADD NUMBER compulsory</i>	c	YES = 4	NO = 0	
<i>PLU is NEGATIVE.</i>	a	YES = 1	NO = 0	N 3 = a + b + c
<i>PLU is SINGLE ITEM.</i>	b	YES = 2	NO = 0	
<i>VALIDATION compulsory</i>	c	YES = 4	NO = 0	
<i>PLU is OPEN (HALO).</i>	0			N 4
<i>PLU is PRESET.</i>	1			
<i>PLU is DISABLED.</i>	2			
<i>PLU is not taxable.</i>	0			N 5
<i>PLU is taxable by VAT 1.</i>	1			
<i>PLU is taxable by VAT 2.</i>	2			
<i>PLU is taxable by VAT 3.</i>	3			
<i>PLU is taxable by VAT 4.</i>	4			
<i>PLU is taxable by VAT 1 & 3.</i>	5			
<i>PLU is printed on KITCHEN PRINTER</i>	a	YES = 1	NO = 0	N 6

B. PROGRAMMING

A zero amount entry for open PLU will set the HALO (High Amount Lock Out) at the maximum seven digits (99999.99) for standard PLU, and five digits (99.999) for gallonage PLU.

Zero preset PLUs are allowed.



NOTE : From PLU NO. (1 ~ 1000) ≤ To PLU NO. (1 ~ 1000)

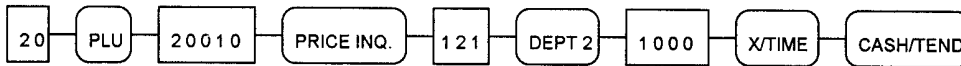
2.9.2 PLU PROGRAMMING EXAMPLES

IMPORTANT : If PLU is not linked to department, PLU registration is not allowed.

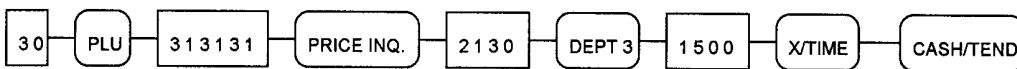
EX 1) Program 'PLU 10' so it is VAT 1 and a KP item. It has a @99.99 HALO and linked to 'DEPT 1'.
Its code is '12345678'.



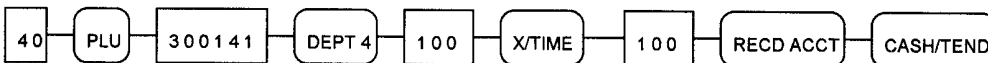
EX 2) Program 'PLU 20' so it is VAT 2 and a KP item. It has a PRESET price @10.00 and linked to 'DEPT 2'. Its code is '20010'.



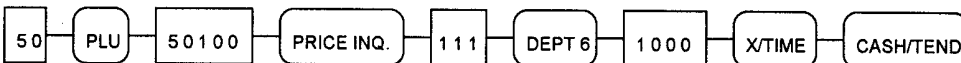
EX 3) Program 'PLU 30' so it is VAT 3, SINGLE ITEM and has a PRESET price @15.00 and linked to 'DEPT 3'. Its code is '313131'.



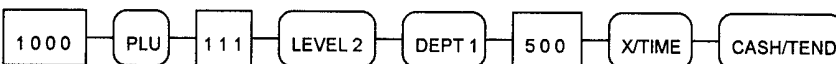
EX 4) Program 'PLU 40' so it is VAT 4 and a KP item. It has a PRESET price @1.00 and linked to 'DEPT 4', initial activity counter is 100 with nonresettable, decreasing status.



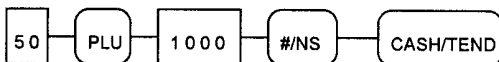
EX 5) Program 'PLU 50' so it is VAT 1 and a KP item. It has a PRESET price @10.00 and linked to 'DEPT 6'. Its code is '50100'.



EX 6) Program 'PLU 1000' so it is VAT 1 and a KP item. It has a PRESET price @5.00 and linked to 'DEPT 108'.



EX 7) Link 'PLU 1000' to 'PLU 50'. (Refer to next page '2.9.4 PLU LINK PROGRAMMING')

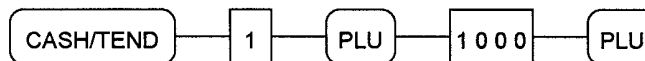


2.9.3 PLU PROGRAMMING SCAN

- (1) Press the "CASH/TEND" key.
- (2) Enter the **number of the first PLU** you want to scan, and press the "PLU" key.
- (3) Enter the **number of the last PLU** you want to scan, and press the "PLU" key.

NOTE : The first PLU number ≤ The last PLU number

EX) To scan PLU 1 ~ 1000



```

DATE 12.25.'96 WED
*****
PLU SCAN
*****
PLU10: ORANGE
PLU# 12345678
LINKED DEPT 1
STAT X1 11
CNT + 0.00
HALO AMT @99.99
PLU 20
PLU# 20010
LINKED DEPT 2
STAT X2 121
CNT + 0.00
PRESET AMT @10.00
PLU 30
PLU# 313131
LINKED DEPT 3
STAT X3 2130
CNT + 0.00
PRESET AMT @15.00
PLU 40
LINKED DEPT 4
STAT X4 300141
CNT - 100.00
PRESET AMT @1.00
  
```

— PLU 10 descriptor
 — PLU code
 — Linked to dept.1
 — Status
 — Activity counter
 — HALO amount

— Preset amount

Link PLU 1000

— Activity counter : 100
 and will decrease

```

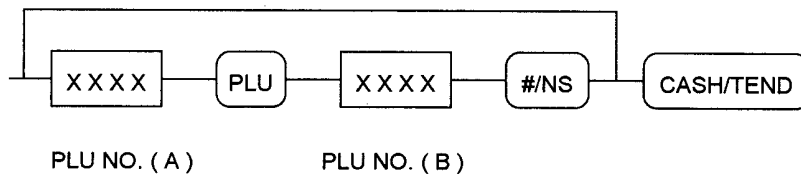
PLU 50
PLU# 50100
CHAIN PLU 1000
LINKED DEPT 6
STAT X1 111
CNT + 0.00
PRESET AMT @10.00
PLU 1000
LINKED DEPT 108
STAT X1 111
CNT + 0.00
PRESET AMT @5.00

CLERK 00 NO.000008
TIME 12:08 9999
  
```

2.9.4 PLU LINK PROGRAMMING

This programming is used to link two or more PLUs.

The second PLU (B) will be automatically registered when the first PLU (A) is registered.



2.9.5 REMOVING OR DELETING A PLU

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

Deleted or inactivated PLUs will not be allowed to register.

- (1) Enter the PLU number (1 ~ 1000), and press the "PLU" key.
- (2) Press the "VOID" key.

NOTE : PLUs with a total may not be removed (or deleted).

Issue the PLU report in "Z" mode before removing any PLU with a total.



2.10 % KEY PROGRAMMING

This cash register has **two % keys**.

2.10.1 % KEY PROGRAMMING

A. PROGRAMMING STATUS

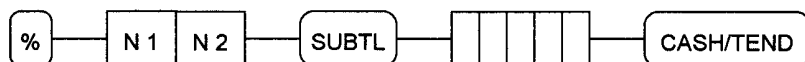
PROGRAMMING OPTION	VALUE	OPTION DIGIT
% key is <i>POSITIVE (SURCHARGE)</i>	a 1	N 1 = a + b
<i>NEGATIVE (DISCOUNT)</i>	0	
<i>OPEN</i>	b 2	
<i>PRESET</i>	0	
% key is <i>SALE</i>	a 1	N 2 = a + b + c
<i>ITEM</i>	0	
<i>AMOUNT</i>	b 2	
<i>PERCENTAGE</i>	0	
<i>INACTIVE</i>	c 4	
<i>ACTIVE</i>	0	

B. PROGRAMMING

- (1) Press the “%” key to be programmed.
 - (2) Enter ***the status*** from the above table and press the “***SUBTL***” key.
 - (3) Enter ***the percentage or amount up to 5 digits*** and press the “***CASH/TEND***” key.
- Decimal point is fixed at three places.***

EX) Percent Rate : 10 % would be 1 0 0 0 0

5.6 % would be 5 6 0 0



STATUS

5 DIGITS (Percent or Amount)

2.10.2 % CALCULATION ROUNDING FACTOR

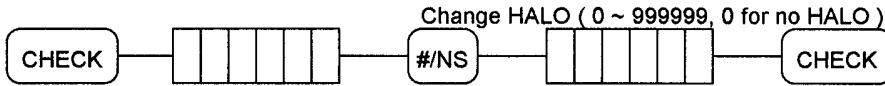
Refer to **SYSTEM OPTION ADDRESS 38** (Page 41)

2.11 CASH/TEND KEY PROGRAMMING



Tendering HALO (0 ~ 999999, 0 for no HALO)

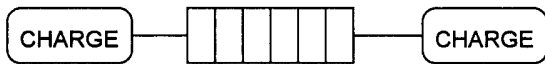
2.12 CHECK KEY PROGRAMMING



Tendering HALO (0 ~ 999999, 0 for no HALO)

2.13 CHARGE KEY PROGRAMMING

This cash register has **two charge keys**.



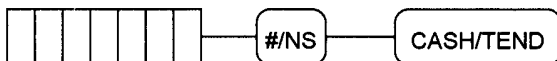
Tendering HALO (0 ~ 999999, 0 for no HALO)

2.14 PRESET CASH KEY PROGRAMMING



Desired amount (0 ~ 999999)

2.15 CASH IN DRAWER LIMIT PROGRAMMING



Total amount of cash and checks

allowed to be in the cash drawer at one time. (0 ~ 9999999)

NOTE : If the cash-in-drawer limit is exceeded, an error tone will sound.

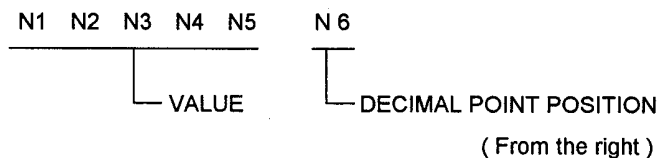
The "CLEAR" key will stop the error tone.

2.16 CURRENCY CONVERSION KEY PROGRAMMING

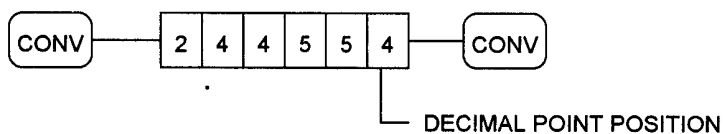
This cash register has two conversion key.

The foreign exchange rate is determined on a six-digit code entered.

Numbers **N1 ~ N5** are the numeric value of the exchange rate, number **N6** sets the decimal point position (0 ~ 5).

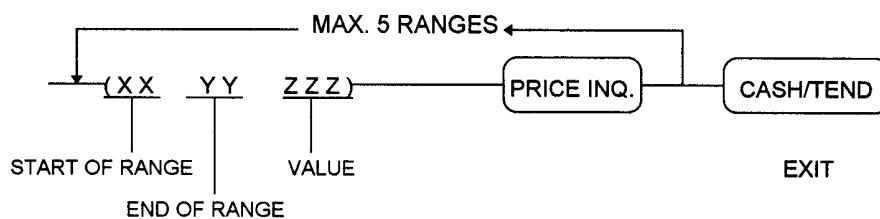


EX) £ 1.00 = 2.4455 DM

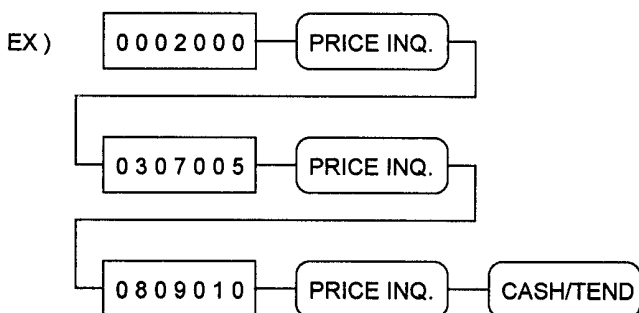


2.17 EUROPEAN ROUNDING PROGRAMMING

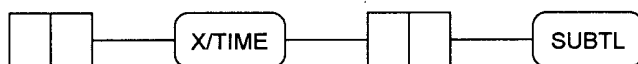
If you use the European rounding, after programming the European rounding, set the **SYSTEM OPTION ADDRESS 40** to 1.(Page 41)



NOTE : The last end of range should be 9 or 99.



2.18 SYSTEM OPTION PROGRAMMING



ADDRESS


STATUS

NOTE : Address 1 ~ 9 should not be entered 01 ~ 09, enter single digit 1 ~ 9.

The value "0" is default status.

ADDRESS	OPTION	VALUE	STATUS
1	Subtotal without tax will be printed on the receipt & journal. Does not require press of the "SUBTL" key.	a YES = 1 NO = 0	a
2	Tax amount charged will be printed on the receipt at finalization. The printed tax amount on receipt at finalization is combined = * Itemized tax printing lists each rate separately, itemized = while combined tax printing lists the total of all taxes. Tax print (first option) must be set to "YES" to allow this option. Print taxable totals.	a YES = 1 NO = 0 b 2 0 c YES = 4 NO = 0	SUM = a + b + c
3	Tax symbol is printed for item. VAT percent rate is printed. Net sale amount is printed. (Only inclusive VAT)	a YES = 0 NO = 1 b YES = 2 NO = 0 c YES = 4 NO = 0	SUM = a + b + c
4	Tax is figured by inclusive VAT . Tax is figured by exclusive VAT .	a 0 1	a
5	Cash declaration is compulsory before X/Z reports. Cash drawer does not open when reports are run.	a YES = 1 NO = 0 b YES = 2 NO = 0	SUM = a + b
6	GRAND total is not printed on financial report.	a YES = 1 NO = 0	a
7	Skip media totals with zero activity on financial report. GROSS total is not printed on financial report. MODE VOID and RETURN are not printed on financial report.	a YES = 0 NO = 1 b YES = 2 NO = 0 c YES = 4 NO = 0	SUM = a + b + c
8	Consecutive number resets after Z1 financial report. GRAND total resets after Z1 financial report. Print full clerk report. (See a clerk report section.)	a YES = 1 NO = 0 b YES = 2 NO = 0 c YES = 4 NO = 0	SUM = a + b + c
9	PLU is registered by code = sequential index (1 ~ 1000) =	a 1 0	a
10	HASH department and PLU operations add to NET sales. Print PLUs and DEPT.s with zero totals on report . Print sales rate on DEPT. / PLU reports.	a YES = 1 NO = 0 b YES = 2 NO = 0 c YES = 4 NO = 0	SUM = a + b + c

ADDRESS	OPTION	VALUE		STATUS
11	Disable department / PLU preset/HALO override Allow 8-digit DEPT. and PLU amount entry.	a	YES = 1 NO = 0	SUM = a + b
		b	YES = 2 NO = 0	
12	Negative and zero sales total are not allowed. Inhibit printing of positive DEPT. and PLU entries on journal.	a	YES = 1 NO = 0	SUM = a + b
		b	YES = 2 NO = 0	
13	Allow the post tender function.	a	YES = 1 NO = 0	a
14	VOID function is only allowed in the 'X' control lock position. Compulsory validation on VOID function. VOID function is inactive.	a	YES = 1 NO = 0	SUM = a + b + c
		b	YES = 2 NO = 0	
		c	YES = 4 NO = 0	
15	CANCEL function is only allowed in the 'X' control lock position. CANCEL function is inactive.	a	YES = 1 NO = 0	SUM = a + b
		b	YES = 2 NO = 0	
16	RETURN function is only allowed in the 'X' control lock position. Compulsory validation on RETURN function. RETURN function is inactive.	a	YES = 1 NO = 0	SUM = a + b + c
		b	YES = 2 NO = 0	
		c	YES = 4 NO = 0	
17	% key function is only allowed in the 'X' control lock position. Compulsory validation on % key function. % key function is inactive.	a	YES = 1 NO = 0	SUM = a + b + c
		b	YES = 2 NO = 0	
		c	YES = 4 NO = 0	
18	RECD ACCT & PAID OUT are only allowed in the 'X' control lock position. Compulsory validation on RECD ACCT & PAID OUT. RECD ACCT & PAID OUT are inactive.	a	YES = 1 NO = 0	SUM = a + b + c
		b	YES = 2 NO = 0	
		c	YES = 4 NO = 0	
19	CHECK-CASHING is only allowed in the 'X' control lock position. Compulsory validation on CHECK-CASHING. CHECK-CASHING is inactive.	a	YES = 1 NO = 0	SUM = a + b + c
		b	YES = 2 NO = 0	
		c	YES = 4 NO = 0	
20	Validation amount is amount tendered = amount of sale = Allow multiple validations.	a	1 0	SUM = a + b
		b	YES = 2 NO = 0	
21	Allow multiple buffered receipts. Buffered receipt is issued on the "RECEIPT ON" position. When pushing the "#/NS" key to open the drawer, receipt ticket is not issued.	a	YES = 1 NO = 0	SUM = a + b + c
		b	YES = 2 NO = 0	
		c	YES = 4 NO = 0	

ADDRESS	OPTION	VALUE	STATUS
22	Print the "CASH" when only SINGLE ITEM is registered.	a YES = 1 NO = 0	SUM = a + b + c
	Print sale item no.	b YES = 2 NO = 0	
	Subtotal is printed when the "SUBTL" key is pressed.	c YES = 4 NO = 0	
23	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	
24	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	
25	The date format is * Same in validation Month, Day and Year = Day, Month and Year = Year, Month and Day =	a 0 1 2	a
26	Decimal for print and display : No decimal = Set at one place = Set at three places = Set at two places =	a 1 2 3 0	a
27	Enter the HDLO (High Digit Lock Out) for the total amount allowed for RECD ACCT & PAID OUT 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
28	Clerks are Pop-up = Stay-down = Secret sign-on code = Push button = 15 Clerks = 4 Clerks =	a 1 0	SUM = a + b + c
		b 2 0	
		c 4 0	
29	Allow clerk change without clerk sign-off operation.	a YES = 1 NO = 0	a
30	Select the currency logo. Default =  Other logos (Refer to page 87 : "CHARACTER CODE TABLE")	a 0 CODE	a
31	Disable NON-ADD NUMBER function.	a YES = 1 NO = 0	a
32	Disable NO SALE function.	a YES = 1 NO = 0	SUM = a + b + c
	Inhibit NO SALE after NON-ADD NUMBER entry.	b YES = 2 NO = 0	
	Enforce NON-ADD NUMBER entry at the beginning of sale.	c YES = 4 NO = 0	
33	Number of digits required for NON-ADD NUMBER entry. ('0' allows any length, 1 ~ 8 digits)	a 0 1 ~ 8	a
34	ADD CHECK advances the consecutive no. at final tender only.	a YES = 1 NO = 0	SUM = a + b
	Compulsory validation on ADD CHECK.	b YES = 2 NO = 0	

ADDRESS	OPTION	VALUE	STATUS
35	Compulsory drawer is disabled.	a YES = 1 NO = 0	SUM = a + b + c
	Validation sensor is activated.	b YES = 2 NO = 0	
	Paper sensor is activated.	c YES = 4 NO = 0	
36	Open drawer alarm is activated.	a YES = 1 NO = 0	a
37	The number of seconds before the open drawer warning tone sounds. (default = 30 sec.)	a 0 ~ 99	a
38	% and tax calculation will round up at 0.50 =	a 0	a
	always round up =	1	
	always round down =	2	
39	Rounding factor for split pricing, triple & decimal multiplication calculation will round up at 0.50 =	a 0	a
	always round up =	1	
	always round down =	2	
40	European round is activated.	a YES = 1 NO = 0	a
41	X/TIME operation is split pricing = triple multiplication =	a 0 1	a
42	"PRICE INQ." key is used as "SCALE" key.	a YES = 1 NO = 0	SUM = a + b + c
	Allow manual entry of weight.	b YES = 2 NO = 0	
	Weight symbol for manual entry is kg = lb =	c 4 0	
43	Only stamp will be printed on the receipt. =	a 0	a
	Both stamp & preamble message will be printed on the receipt. =	1	
	Only preamble message will be printed on the receipt. =	2	
44	Postamble message will be printed on the receipt.	a YES = 1 NO = 0	SUM = a + b + c
	Preamble message will be not printed on the slip printer.	b YES = 2 NO = 0	
	Postamble message will be not printed on the slip printer.	c YES = 4 NO = 0	
45	Train mode	a YES = 1 NO = 0	SUM = a + b + c
	Train mode title is not printed on the receipt during train mode.	b YES = 2 NO = 0	
	Cash drawer does not open during train mode.	c YES = 4 NO = 0	
46	Table management = Cashier overlap =	a 0 1	a
47	Consolidated receipt on table management or cashier overlap is only printed on the receipt of ECR.	a 0	a
	Consolidated receipt on table management or cashier overlap is printed on the receipt of ECR and the slip printer.	1	
	Consolidated receipt on table management or cashier overlap is only printed on the slip printer.	2	
48	Slip operation =	a 0	a
	KP operation =	1	
49	Amount tender is compulsory on "CASH/TEND" tendering.	a YES = 1 NO = 0	SUM = a + b + c
	Under tendering by "CASH/TEND" is not allowed.	b YES = 2 NO = 0	
	Validation on "CASH/TEND" tendering is compulsory.	c YES = 4 NO = 0	

2.19 PARAMETERS PROGRAM SCAN

CASH/TEND

SUBTL

DATE 12.25.'96 WED

MISCELLANEOUS SCAN

TAX1 RATE 15.000%

—— Tax rate

TAX2 RATE 10.000%

TAX3 RATE 8.000%

TAX4 RATE 5.000%

Z 1 RATE -10.000%

—— % 1 programming

Z 1 STAT 0

Z 2 AMT 05.00

—— % 2 programming

Z 2 STAT 12

CASH HALO 0.00

—— Cash key HALO

CHECK TND HALO 0.00

—— Check key tender HALO

CHECK CHG HALO 0.00

—— Check key change HALO

CHG1 HALO 0.00

—— Charge1 key HALO

CHG2 HALO 0.00

—— Charge2 key HALO

DWR LIMIT AMT 0.00

—— Cash in drawer limit amount

CONV1 RATE 2.4455

—— Currency conversion key programming

CONV2 RATE 0.00

European Rounding

CLK1 CODE 123456

—— Clerk secret code

CLK1 DRAWER 0

—— Clerk drawer assignment

CLK2 CODE 234567

CLK2 DRAWER 2

System option

CLK3 CODE 345678

CLK3 DRAWER 1

CLK4 CODE 456789

CLK4 DRAWER 0

CLK15 CODE 987654

CLK15 DRAWER 1

DEFAULT LEVEL 2

—— Default level

DEPT LEVEL SYSTEM 0

—— Dept.level system

PRECASH1 AMT 5.00

—— Preset cash amount

PRECASH2 AMT 10.00

PRECASH3 AMT 20.00

EUROPEAN ROUND :

0 - 2 = 0

3 - 7 = 5

8 - 9 = 10

SYSTEM OPN 5 1

SYSTEM OPN 7 1

SYSTEM OPN 10 4

SYSTEM OPN 13 1

SYSTEM OPN 28 2

SYSTEM OPN 47 2

SYSTEM OPN 54 1

CLERK 00 NO.000010

TIME 12:10 9999

OPERATING NOTE

This section shows you **how to operate the cash register during normal use.**

The operating steps are explained with **flow chart boxes.**

Each box represents a key on the keyboard that you should press to complete an operation.

Unless the specified note, the flow charts use the "CASH/TEND" key to finalize the sale.

NOTE : A clerk must be signed on before operation takes place.

All registrations are made in the "REG" or "VOID" control lock position.

1 CLERK SIGN ON

1.1 IN CASE OF 4 CLERKS (SYSTEM OPTION 28's VALUE 'C' = 0)

1.1.1 PUSH BUTTON SIGN ON

CLERK

The clerk key (1, 2, 3 or 4) to start operation

1.1.2 SECRET CODE SIGN ON

To use this sign on method, SYSTEM OPTION ADDRESS 28 must be set to value 'b'.

The code will not be shown.

CLERK

(6 digits secret code)

CLERK

The clerk key (1, 2, 3 or 4) to start operation

1.2 IN CASE OF 15 CLERKS (SYSTEM OPTION 28's VALUE 'C' = 4)

1.2.1 PUSH BUTTON SIGN ON

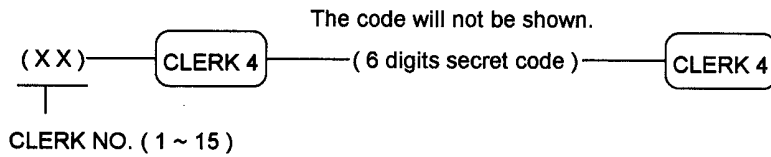
(X X)

CLERK 4

CLERK NO. (1 ~ 15)

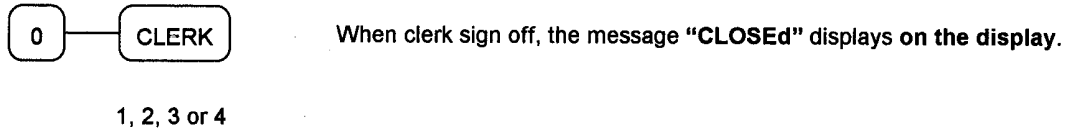
1.2.2 SECRET CODE SIGN ON

To use this sign on method, SYSTEM OPTION ADDRESS 28 must be set to value 'b'.

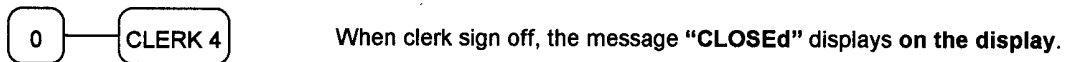


2 CLERK SIGN OFF

2.1 IN CASE OF 4 CLERKS (SYSTEM OPTION 28's VALUE 'C' = 0)



2.2 IN CASE OF 15 CLERKS (SYSTEM OPTION 28's VALUE 'C' = 4)



3 REAL CLERK KEY ENTRY (Optional Device)

If you want to use the real clerk keys, you should set the SYSTEM OPTION ADDRESS 53 to 1.

4 CLEARING AN ERROR CONDITION

If the error tone is ringing, press

CLEAR

There are several error symbols. Refer to 'DISPLAY SYMBOLS' (Page 14)

5 NO SALE OPERATION

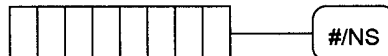
A no sale operation is used to **open the cash drawer** outside of a sale.

#/NS

6 NON-ADD NUMBER ENTRIES

The "#/NS" key can be used to **enter up to eight digits**.

This numeric entry will be added to non-add number total.


 #/NS

```

DATE 12.25.'96  WED
NO SALES -----
CLERK 01  NO.000012
TIME 12:24      9999
  
```

```


NON-ADD#  12345678
  
```

* NO SALE *


* NON-ADD NUMBER *

7 PRICE INQUIRY OPERATION

If you want to know the price (preset or HALO) of DEPT. or PLU during registration,

PRICE INQ. — DEPT OR PRICE INQ. —  — PLU (SYSTEM OPTION 9 = 0)

PLU NO. (1 ~ 1000)

PRICE INQ. —  — PLU (SYSTEM OPTION 9 = 1)

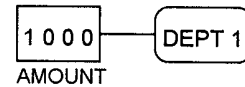
PLU CODE (1 ~ 99999999)

8 DEPARTMENT ENTRIES

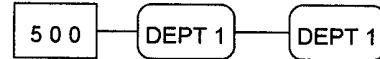
NOTE : The present level is 1.

8.1 OPEN DEPARTMENT ENTRIES

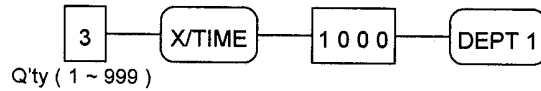
- (1) Single open DEPARTMENT entry



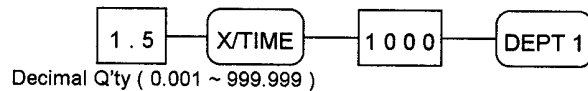
- (2) Repeat open DEPARTMENT entry



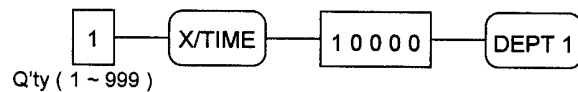
- (3) Multiple open DEPARTMENT entry



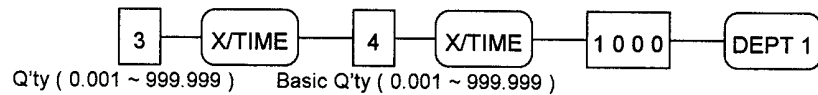
- (4) Decimal multiplication
of open DEPARTMENT entry



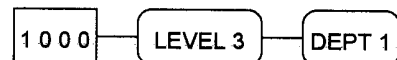
- (5) Override HALO price entry



- (6) Split pricing on open DEPARTMENT entry (Triple multiplication : SYSTEM OPTION 41 = 1)



- (7) Open DEPARTMENT entry with "LEVEL" key



Dept. 1
descriptor

Clerk NO.

Time

DATE 12.25.'96	WED
APPLE X1	10.00
APPLE X1	5.00
APPLE X1	5.00
3X	30.00
APPLE X1	30.00
1.5X	15.00
APPLE X1	15.00
1X	100.00
APPLE X1	100.00
3/4FOR	7.50
APPLE X1	7.50
DEPT.215	10.00
TOTAL	182.50
CASH	182.50
CLERK 01	NO.000014
TIME 12:26	9999

Taxable by tax 1

Repeat entry

Multiple open entry

Decimal multiplication

HALO override

Split pricing

Dept. Level entry

Receipt consecutive NO.

Register NO.

8.2 PRESET DEPARTMENT ENTRIES

- (1) Single preset DEPARTMENT entry

DEPT 3

- (2) Repeat preset DEPARTMENT entry

DEPT 3 — DEPT 3

- (3) Multiple preset DEPARTMENT entry

3 — X/TIME — DEPT 3
Q'ty (1 ~ 999)

- (4) Decimal multiplication
of preset DEPARTMENT entry

1.5 — X/TIME — DEPT 3
Decimal Q'ty (0.001 ~ 999.999)

- (5) Override preset price entry

2000 — DEPT 3

- (6) Split pricing on preset DEPARTMENT entry (Triple multiplication : SYSTEM OPTION 41 = 1)

3 — X/TIME — 4 — X/TIME — DEPT 3
Q'ty (0.001 ~ 999.999) Basic Q'ty (0.001 ~ 999.999)

- (7) Preset DEPARTMENT entry with "LEVEL" key

LEVEL 3 — DEPT 107

DATE 12.25.'96	WED
DEPT.3 X2	•10.00
DEPT.3 X2	•10.00
DEPT.3 X2	•10.00
3X	@10.00
DEPT.3 X2	•30.00
1.5X	@10.00
DEPT.3 X2	•15.00
DEPT.3 X2	•20.00
3X4X	@10.00
DEPT.3 X2	•120.00
DEPT.321 X4	•10.00
TOTAL	•225.00
CASH	•225.00
CLERK 01	NO.000017
TIME 12:27	9999

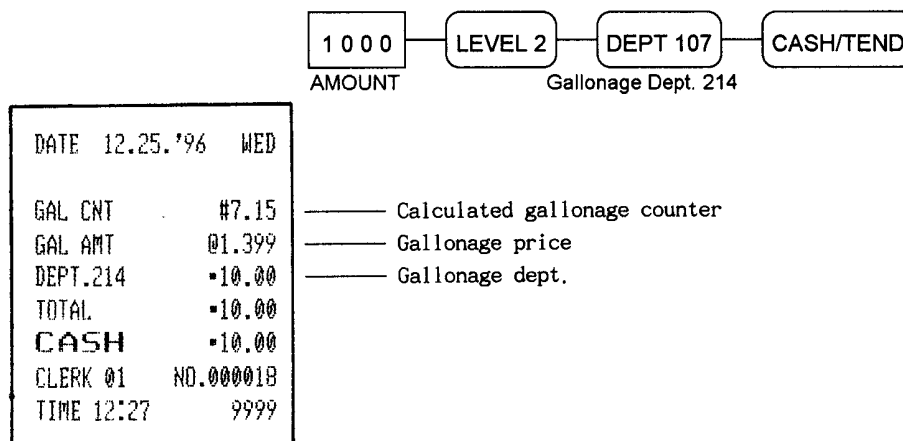
— Preset price taxable by tax 2
— Repeat entry
— Multiplication
— Decimal multiplication
— Preset override
— Triple multiplication
— Dept. Level entry

8.3 GALLONAGE DEPARTMENT OPERATION

- NOTE : 1)** Although gallonage departments are considered open departments,
a price per gallon must be programmed on department programming.
This price is calculated to three decimal points.
- 2)** Although gallonage departments are programmed as a preset price,
you must enter amount when gallonage department is registered.

* Same as gallonage PLU

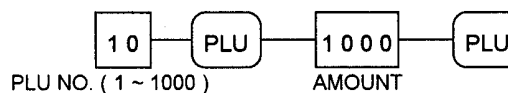
EX) DEPARTMENT 214 has been programmed as gallonage department and unit price @1.399.



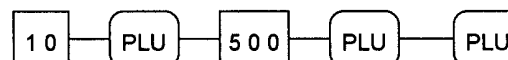
9 PLU (PRICE LOOK UP) ENTRIES

9.1 OPEN PLU ENTRIES

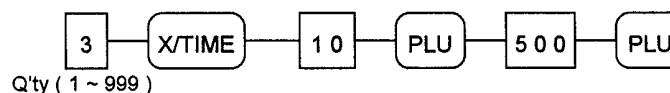
- (1) Single open PLU entry



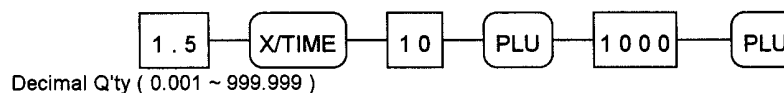
- (2) Repeat open PLU entry



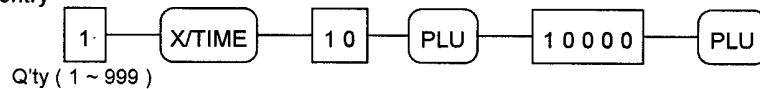
- (3) Multiple open PLU entry



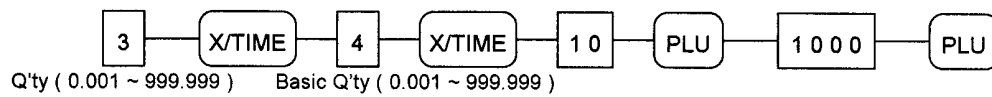
- (4) Decimal multiplication of open PLU entry



(5) Override HALO price entry



(6) Split pricing on open PLU entry (Triple multiplication : SYSTEM OPTION 41 = 1)



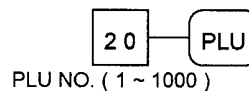
PLU 10
descriptor

DATE 12.25.'96 WED		
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 01		NO.000020
TIME 12:28		9999

—— Taxable by tax 1
 —— Repeat entry
 —— PLU multiplication
 —— Decimal multiplication
 —— PLU HALO override
 —— Split pricing

9.2 PRESET PLU ENTRIES

- (1) Single preset PLU entry



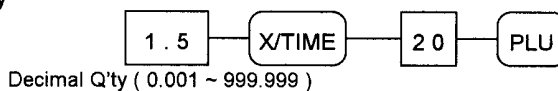
- (2) Repeat preset PLU entry



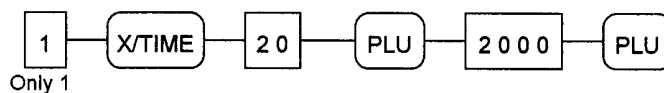
- (3) Multiple preset PLU entry



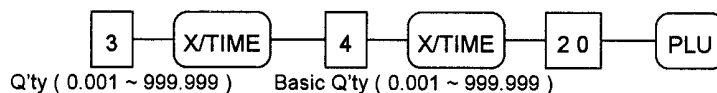
- (4) Decimal multiplication of preset PLU entry



- (5) Override preset price entry



- (6) Split pricing on preset PLU entry (Triple multiplication : SYSTEM OPTION 41 = 1)



DATE 12.25.'96	WED
PLU 20 X2	10.00
PLU 1000 X1	5.00
PLU 1000 X1	5.00
3X	10.00
PLU 20 X2	30.00
1.5X	10.00
PLU 20 X2	15.00
1X	20.00
PLU 20 X2	20.00
3X4X	10.00
PLU 20 X2	120.00
TOTAL	205.00
CASH	205.00
CLERK 01	NO.000022
TIME 12:29	9999

—— Preset price taxable by tax 2

—— Repeat entry

—— PLU multiplication

—— Decimal multiplication

—— Preset override

—— Triple multiplication

9.3 PLU TO PLU CHAIN OPERATION

All preset PLUs in the same chain (PLU to PLU linking) will be automatically registered when the first PLU of the chain is registered.

If a PLU located in the middle of the chain is registered, the following preset PLUs will be automatically registered.

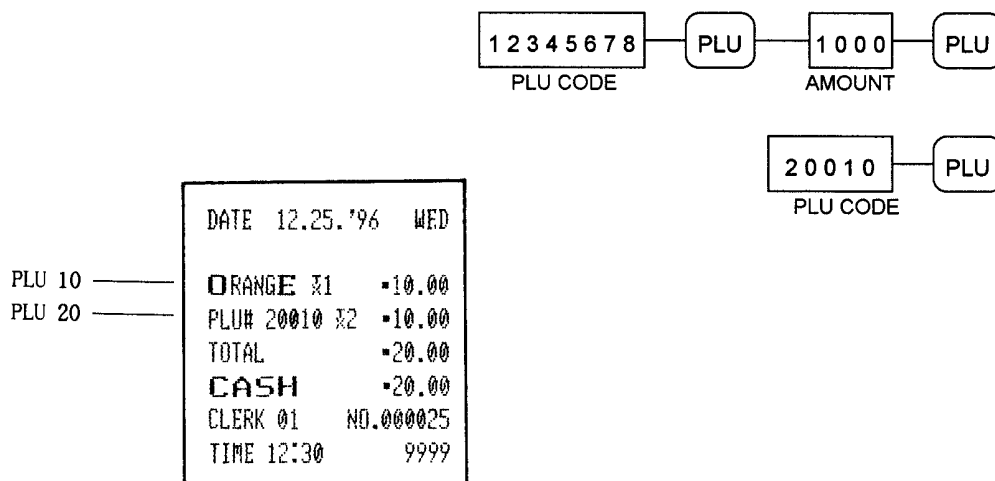
EX) PLU 1000 is linked to PLU 50.

Chain PLU	DATE 12.25.'96 WED
	PLU 50 X1 -10.00
	PLU 1000 X1 -5.00
	TOTAL -15.00
	CASH -15.00
	CLERK 01 NO.000023
	TIME 12:29 9999

9.4 PLU ENTRIES BY CODE

This cash register can register PLU not only sequential index (1 ~ 1000) but also code up to 8 digits. If you want to register PLU by code, you must program PLU code on PLU programming and set SYSTEM OPTION ADDRESS 9 to 1.

NOTE : PLU entries by code is same to PLU entries by sequential index.



10 SINGLE ITEM DEPARTMENT OR PLU ENTRIES

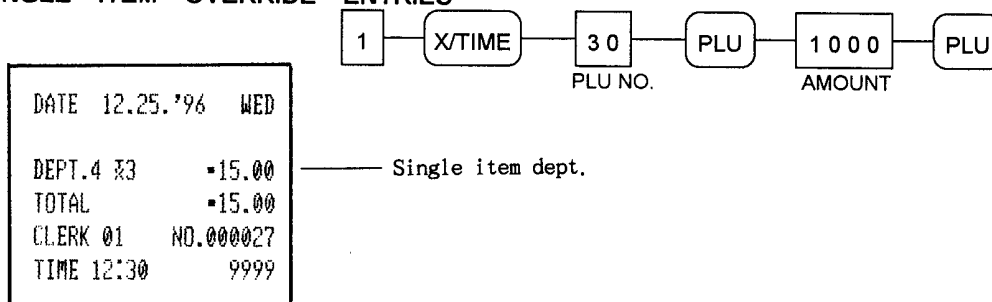
Single item operation finalizes transaction without tendering key entry.

But the transaction is not finalized when you register another department or PLU before entering single item department or PLU.

10.1 SINGLE ITEM PRESET ENTRIES

DEPT 4

10.2 SINGLE ITEM OVERRIDE ENTRIES



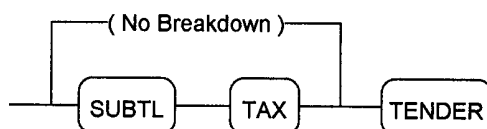
11 COMPUTATION OF VAT (Value Added Tax)

This cash register has four taxes.

NOTE : Refer to SYSTEM OPTION ADDRESS 4 to select inclusive or exclusive VAT.

11.1 INCLUSIVE VAT SYSTEM

- (1) Inclusive VAT is used when a tax amount is already included in the item price, and a breakdown of the various tax charged is separated out.



If you set **SYSTEM OPTION ADDRESS 3** to value 'c', breakdown will be automatically done.

(2) VAT SHIFT

when the "TAX" key is pressed before entering a department or PLU programmed as VAT 1, their tax status shift VAT 1 to VAT 2.

when the "TAX" key is pressed before entering a department or PLU programmed as VAT 1&3, their tax status becomes VAT 1, in that VAT 1 remains unchanged and VAT 3 is deleted.



11.2 EXCLUSIVE VAT SYSTEM

- (1) **Exclusive VAT** is used when a tax amount is not included in the item price, and a tax amount is calculated by a tax rate.

(2) TAX EXEMPT

While the exclusive VAT system is in use, you can exempt a taxable department or PLU from tax.



* Inclusive VAT *

* Exclusive VAT *

```

DATE 12.25.'96 WED
APPLE X1      10.00
APPLE X2      10.00
DEPT.6 X1&3   10.00
DEPT.6 X1      10.00
TAXABLE1      30.00
TAX1 RATE     15.000%
NET1 AMT      26.09
TAX1 AMT       3.91
TAXABLE2      10.00
TAX2 RATE     10.000%
NET2 AMT       9.09
TAX2 AMT       0.91
TAXABLE3      10.00
TAX3 RATE      8.000%
NET3 AMT       9.26
TAX3 AMT       0.74
TOTAL         40.00
CASH          40.00
CLERK 01      NO.000029
TIME 12:31    9999
  
```

— Taxable by tax 1
 — Tax 1 shift
 — Taxable by tax 1 & 3
 — Tax 3 delete
 — Taxable 1 amount
 — Tax 1 rate
 — Net 1 amount
 — Tax 1 amount
 — Taxable 2 amount
 — Tax 2 rate
 — Net 2 amount
 — Tax 2 amount
 — Taxable 3 amount
 — Tax 3 rate
 — Net 3 amount
 — Tax 3 amount

```

DATE 12.25.'96 WED
APPLE X1      10.00
APPLE          10.00
DEPT.3 X2     10.00
DEPT.3         10.00
DEPT.4 X3     15.00
DEPT.4         15.00
DEPT.321 X4   10.00
DEPT.321       10.00
TAX1 AMT       1.50
TAX2 AMT       1.00
TAX3 AMT       1.20
TAX4 AMT       0.50
TOTAL          94.20
CASH           94.20
CLERK 01      NO.000031
TIME 12:32    9999
  
```

— Taxable by tax 1
 — Tax 1 exempt
 — Taxable by tax 2
 — Tax 2 exempt
 — Taxable by tax 3
 — Tax 3 exempt
 — Taxable by tax 4
 — Tax 4 exempt
 — Tax 1 amount
 — Tax 2 amount
 — Tax 3 amount
 — Tax 4 amount

12 % KEY ENTRIES

The item discount or surcharge is that discount or surcharge is applied to one item,
while the sale discount or surcharge is that discount or surcharge is applied to the entire sale.

**NOTE : If you want to sale discount or surcharge you must press the "SUBTL" key before
entering the "%" key.**

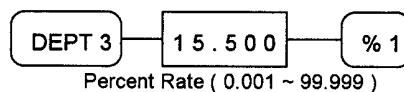
12.1 PERCENT RATE DISCOUNT / SURCHARGE

12.1.1 ITEM DISCOUNT / SURCHARGE

- (1) Preset percent item discount / surcharge



- (2) Override preset item discount / surcharge

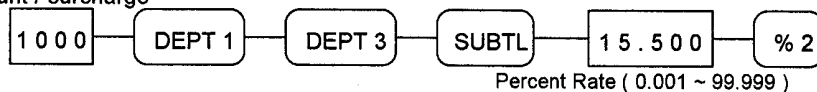


12.1.2 SALE DISCOUNT / SURCHARGE

- (1) Preset percent sale discount / surcharge



- (2) Open sale discount / surcharge



DATE 12.25.'96	WED
APPLE X1	=10.00
SURCHARGE 2	5.000%
AMOUNT	=0.50
DEPT.3 X2	=10.00
DISCOUNT 1	-15.500%
AMOUNT	-1.55
TOTAL	=18.95
CASH	=18.95
CLERK 01	NO.000033
TIME 12:41	9999

—— Preset percent
surcharge

—— Override preset
percent discount

DATE 12.25.'96	WED
APPLE X1	=10.00
APPLE X1	=10.00
SALE DISC 1	-10.000%
SALE AMT	-2.00
APPLE X1	=10.00
DEPT.3 X2	=10.00
SALE SURC 2	15.500%
SALE AMT	=5.89
TOTAL	=43.89
CASH	=43.89
CLERK 01	NO.000034
TIME 12:41	9999

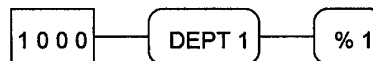
—— Preset percent
sale discount

—— Open percent
sale surcharge

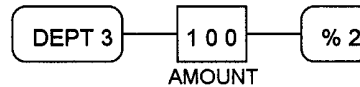
12.2 AMOUNT DISCOUNT / SURCHARGE

12.2.1 ITEM DISCOUNT / SURCHARGE

(1) Preset amount item discount / surcharge



(2) Override amount item discount / surcharge

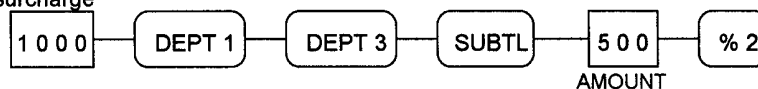


12.2.2 SALE DISCOUNT / SURCHARGE

(1) Preset amount sale discount / surcharge



(2) Open sale discount / surcharge



DATE 12.25.'96	WED
APPLE X1	•10.00
AMOUNT	•0.50
DEPT.3 X2	•10.00
AMOUNT	-1.00
TOTAL	•19.50
CASH	•19.50
CLERK 01	NO.000036
TIME 12:43	9999

—— Preset amount
surcharge

—— Override preset
amount discount

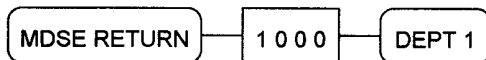
DATE 12.25.'96	WED
APPLE X1	•10.00
APPLE X1	•10.00
SALE AMT	•0.50
APPLE X1	•10.00
DEPT.3 X2	•10.00
SALE AMT	-5.00
TOTAL	•35.50
CASH	•35.50
CLERK 01	NO.000037
TIME 12:43	9999

—— Preset amount
sale surcharge

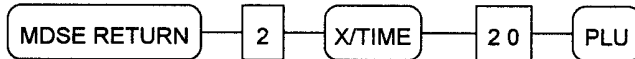
—— Open amount
sale discount

13 MERCHANDISE RETURN OPERATION

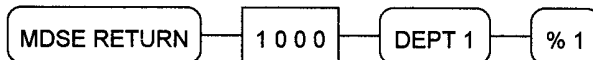
A. Merchandise return of a single department or PLU entry



B. Merchandise return of multiple department or PLU entry



C. Merchandise return of the discounted / surcharged item



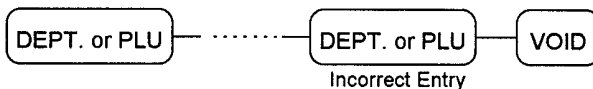
NOTE : Merchandise return of the negative department or PLU is not allowed, and void of merchandise return entry is not allowed.

```
DATE 12.25.'96 WED
RETURN *****
APPLE X1 -10.00
RETURN *****
2X -10.00
PLU 20 X2 -20.00
RETURN *****
APPLE X1 -10.00
DISCOUNT 1 -10.000%
AMOUNT -1.00
TOTAL -39.00
CASH -39.00
CLERK 01 NO.000039
TIME 12:43 9999
```

14 VOID OPERATION

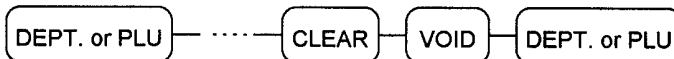
14.1 VOID OF A LAST ITEM ENTRY (ERROR CORRECT)

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

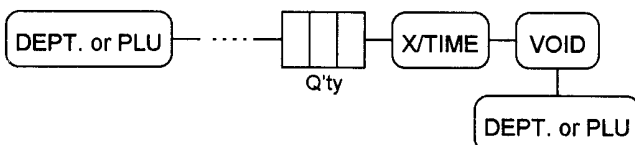


14.2 VOID OF A PREVIOUS ITEM ENTRY

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



OR



```
DATE 12.25.'96 WED
APPLE X1 -10.00
ERROR CORRECT -----
APPLE X1 -10.00
ORANGE X1 -10.00
DEPT.3 X2 -10.00
PREVIOUS VOID -----
ORANGE X1 -10.00
TOTAL -10.00
CASH -10.00
CLERK 01 NO.000040
TIME 12:44 9999
```

14.3 VOID OUTSIDE OF A SALE

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

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

```
DATE 12.25.'96 WED
VOID MODE *****
APPLE X1      -10.00
DEPT.3 X2     -10.00
DEPT.4 X3     -15.00
DEPT.6 X1&3   -10.00
TOTAL        -45.00
CASH          -45.00
CLERK 01     NO.000041
TIME 12:44    9999
```

14.4 CANCEL (VOID 4)

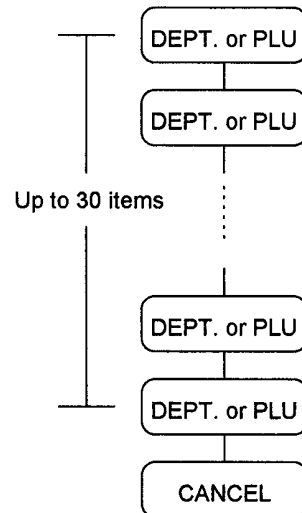
The pressing of the **"CANCEL"** key during a transaction **cancels the entire transaction**.

This is **not a tendering key !!**

Transactions **up to thirty items** may be canceled.

If a cancel operation is attempted after the entering of **more than thirty items**, an error will occur.

```
DATE 12.25.'96 WED
ORANGE X1     -10.00
PLU 20 X2     -10.00
PLU 30 X3     -15.00
2X           @10.00
DEPT.3 X2     -20.00
ALL CANCEL *****
CLERK 01     NO.000043
TIME 13:38    9999
```



15 ADD CHECK OPERATION

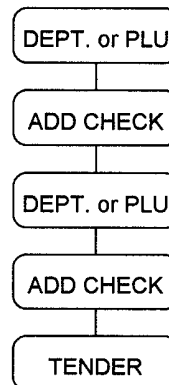
Add check entry

Add check entry

DATE 12.25.'96 WED	
APPLE X1	•10.00
DEPT.2 X1	•5.00
TOTAL	•15.00
ADD CHECK	•15.00
CLERK 01	NO.000046
TIME 13:39	9999

DATE 12.25.'96 WED	
PLU 40 X4	•1.00
APPLE X1	•10.00
TOTAL	•11.00
ADD CHECK	•11.00
CLERK 01	NO.000047
TIME 13:39	9999

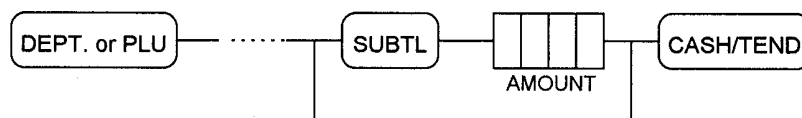
DATE 12.25.'96 WED	
TOTAL	•26.00
CASH	•26.00
CLERK 01	NO.000048
TIME 13:39	9999



Add check tendering

16 TENDERING OPERATION

16.1 CASH TENDERING



DATE 12.25.'96 WED	
APPLE X1	•10.00
DEPT.2 X1	•5.00
TOTAL	•15.00
CASH	•20.00
CHANGE	•5.00
CLERK 01	NO.000049
TIME 13:39	9999

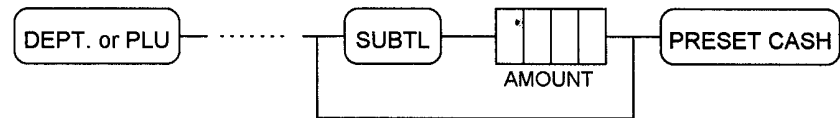
Amount of cash tendered

Change due

16.2 PRESET CASH TENDERING

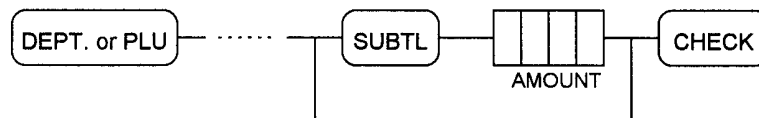
You must program the "PRESET CASH" key.

If you don't program this key, an error will occur when you enter the "PRESET CASH" key.



DATE 12.25.'96	WED	
APPLE X1	•10.00	
DEPT.3 X2	•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 01	NO.000050	
TIME 13:40	9999	

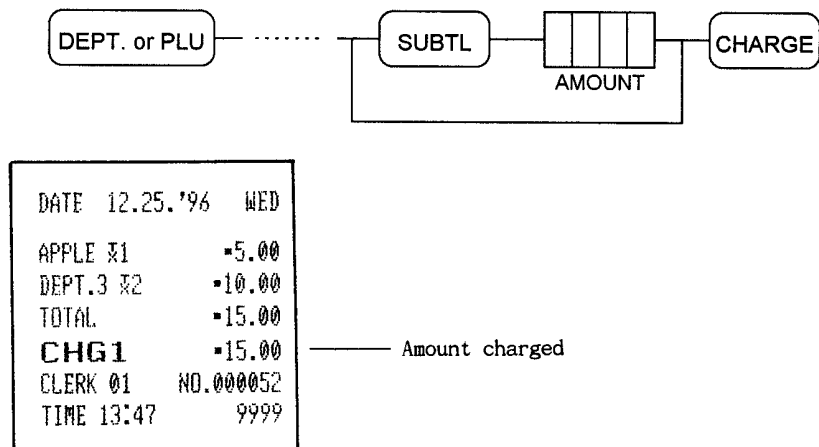
16.3 CHECK TENDERING



DATE 12.25.'96	WED	
APPLE X1	•5.00	—— Amount of check tendered
PLU 20 X2	•10.00	
TOTAL	•15.00	
CHECK	•20.00	—— Change due
CHANGE	•5.00	
CLERK 01	NO.000051	
TIME 13:40	9999	

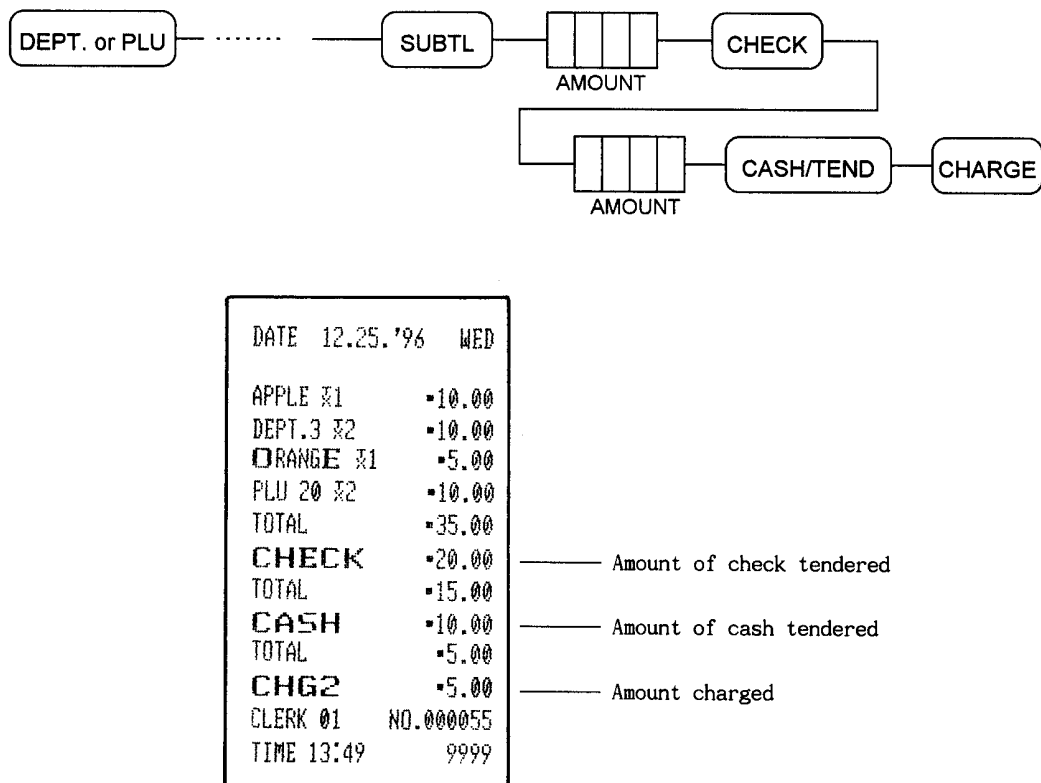
16.4 CHARGE TENDERING

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



16.5 SPLIT TENDERING

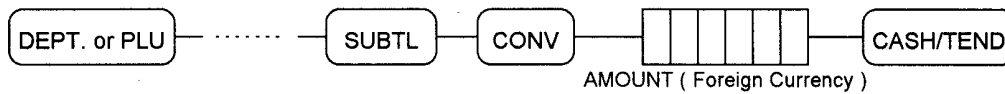
You can tender any combination of media.



16.6 TENDERING WITH CURRENCY CONVERSION

You must program the "CONV" key.

If you don't program this key, an error will occur when you enter the "CONV" key.



```

DATE 12.25.'96 WED
DEPT.7      =1.00
TOTAL       =1.00
FOREIGN AMT @3.00
CHANGE RATE #2.4455
HOME AMT    =1.23
CHANGE     =0.23
CLERK 01    NO.000058
TIME 13:50   9999
  
```

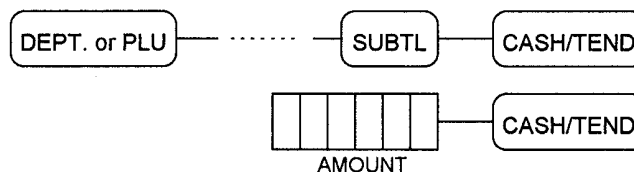
———— Entered foreign currency amount
 ———— Change rate
 ———— Calculated home currency amount
 ———— Change due

16.7 POST TENDERING

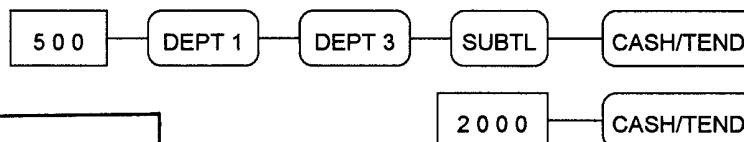
NOTE : If you want to use post tendering function, you must set SYSTEM OPTION ADDRESS 13 to 1 (Page 39).

Post tendering function is only allowed on cash transactions.

After post tendering, the display will show the remaining amount and the drawer will open.



EX)

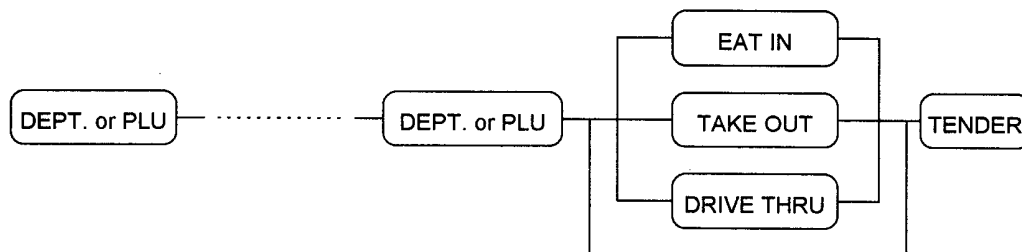


```

DATE 12.25.'96 WED
APPLE X1      =5.00
DEPT.3 X2     =10.00
TOTAL         =15.00
CASH        =15.00
CLERK 01      NO.000059
TIME 13:51    9999
  
```

17 EAT IN / TAKE OUT / DRIVE THRU OPERATION

If you press the "EAT IN" or "TAKE OUT" or "DRIVE THRU" key **before tendering**, each message is printed on the receipt and each total is added to that of the financial report.



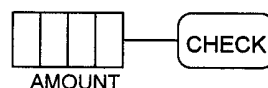
```

DATE 12.25.'96 WED
APPLE X1      -10.00
DEPT.3 X2     -10.00
DEPT.4 X3     -15.00
DEPT.5        -1.00
PLU 40 X4     -1.00
PLU 50 X1     -10.00
PLU 1000 X1   -5.00
EAT-IN =====
TOTAL         -50.00
CASH        -50.00
CLERK 01      NO.000061
TIME 14:45    9999
  
```

18 CHECK CASHING

If a customer wants to **cash a check**, use this function.

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

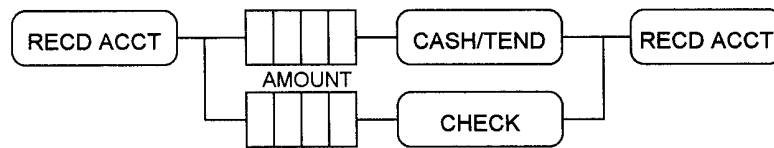


```

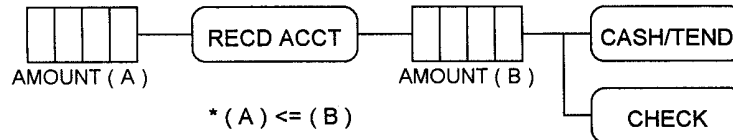
DATE 12.25.'96 WED
* CHECK CASHING *
CHECK      -50.00
CASH      -50.00
CLERK 01      NO.000062
TIME 14:45    9999
  
```


19 RECEIVED ON ACCOUNT OPERATION

A. Use the "RECD ACCT" key to register cash or check that is added to the cash drawer.



B. CHANGE BACK



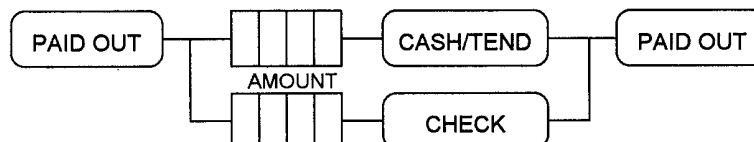
```

DATE 12.25.'96 WED

RECD ACCT
CASH      -1.00
CHECK     -2.00
RECD ACCT      -3.00
CLERK 01  NO.000063
TIME 14:45    9999
  
```

20 PAID OUT OPERATION

Use the "PAID OUT" key to register cash or check that is moved from the cash drawer.



```

DATE 12.25.'96 WED

PAID OUT
CHECK     -3.00
CASH      -2.50
PAID OUT  -5.50
CLERK 01  NO.000064
TIME 14:46    9999
  
```

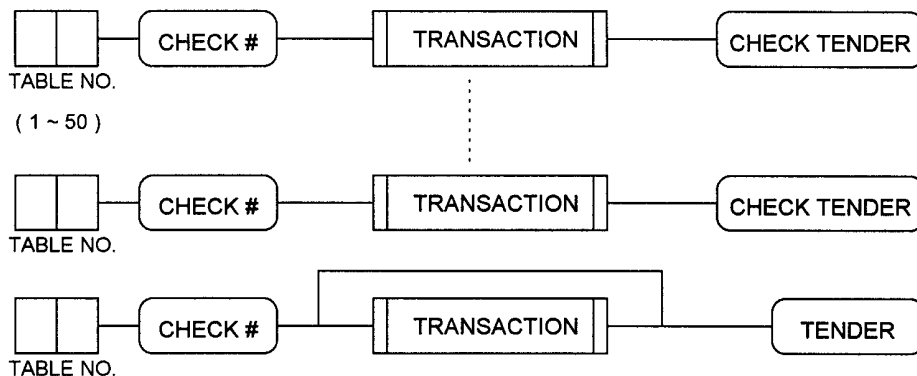
21 TABLE MANAGEMENT

This cash register can support the table management up to 50 lines.

(40 item lines + 10 tendering lines).

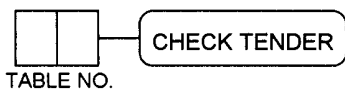
NOTE : If you want to use the table management, SYSTEM OPTION ADDRESS 46 must be 0.

21.1 TRANSACTION



21.2 CONSOLIDATED RECEIPT PRINTING

If you want to issue the consolidated receipt about the table to be opened or tendered (by cash or check ...), press the table number and the "CHECK TENDER" key.



NOTE : If you set the SYSTEM OPTION 47 to 0, the consolidated receipt is only printed on the receipt of ECR.

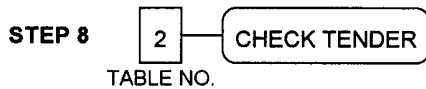
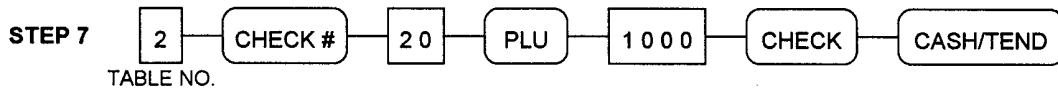
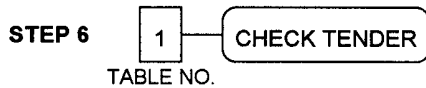
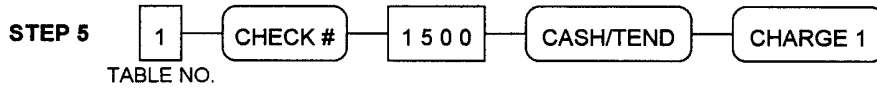
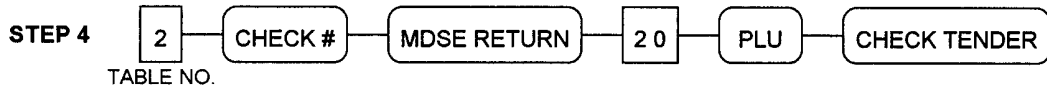
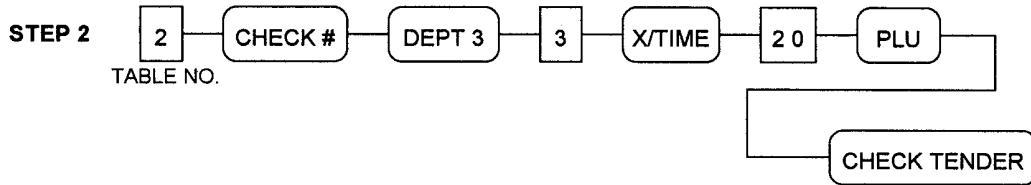
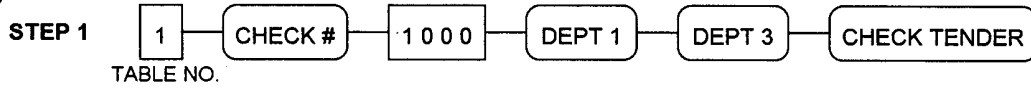
If you set the SYSTEM OPTION 47 to 1, the consolidated receipt is printed on the receipt of ECR and the slip printer.

If you set the SYSTEM OPTION 47 to 2, the consolidated receipt is only printed on the slip printer.

NOTE : If you set the SYSTEM OPTION ADDRESS 48 to 0, when table management, the transaction will be printed on the slip printer.

(Refer to SYSTEM OPTION ADDRESS 54 (Page 42) to select the printer type.)

EX)



DATE 12.25.'96 WED	
NO.1 CHK BAL.	-0.00
APPLE X1	-10.00
DEPT.3 X2	-10.00
OPEN	-20.00
CLERK 01	NO.000065
TIME 14:51	9999

Open amount

DATE 12.25.'96 WED	
NO.2 CHK BAL.	-0.00
DEPT.3 X2	-10.00
3X	-10.00
PLU 20 X2	-30.00
OPEN	-40.00
CLERK 01	NO.000066
TIME 14:51	9999

* STEP 1 *

* STEP 2 *

```

DATE 12.25.'96  WED
NO.1 CHK BAL.  +20.00
2X              @10.00
DEPT.3 T2      +20.00
OPEN          +40.00
CLERK 01       NO.000067
TIME 14:52     9999
  
```

```

DATE 12.25.'96  WED
NO.2 CHK BAL.  +40.00
RETURN *****
PLU 20 T2      -10.00
OPEN          +30.00
CLERK 01       NO.000068
TIME 14:52     9999
  
```

* STEP 3 *

* STEP 4 *

```

DATE 12.25.'96  WED
NO.1 CHK BAL.  +40.00
TOTAL          +40.00
CASH          +15.00
TOTAL          +25.00
CHG1          +25.00
CLERK 01       NO.000069
TIME 14:52     9999
  
```

Consolidated
receipt

```

      Thank You
      TABLE NO. # 01
APPLE T1      #10.00
3X            @10.00
DEPT.3 T2     #30.00
TOTAL         #40.00
CASH         #15.00
CHG1         #25.00
CLERK 01      12.25.'96  14:52
9999                                000069
      Call Again
  
```

* STEP 5 *

* STEP 6 (SLIP PRINTING) *

```

DATE 12.25.'96  WED
NO.2 CHK BAL.  +30.00
PLU 20 T2      +10.00
TOTAL          +40.00
CHECK         +10.00
TOTAL          +30.00
CASH          +30.00
CLERK 01       NO.000070
TIME 14:53     9999
  
```

Consolidated
receipt

```

      Thank You
      TABLE NO. # 02
DEPT.3 T2     #10.00
3X            @10.00
PLU 20 T2     #30.00
TOTAL         #40.00
CHECK         +10.00
CASH          +30.00
CLERK 01      12.25.'96  14:53
9999                                000070
      Call Again
  
```

* STEP 7 *

* STEP 8 (SLIP PRINTING) *

22 CASHIER OVERLAP

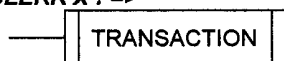
NOTE : If you want to use the cashier overlap, SYSTEM OPTION ADDRESS 46 must be 1.

If you set SYSTEM OPTION ADDRESS 29 to 1,

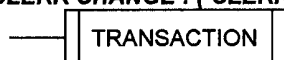
clerk change can be made without clerk sign-off operation.

22.1 TRANSACTION

CLERK X ! =>



CLERK CHANGE ! (CLERK X -> Y) =====>



CLERK CHANGE ! (CLERK Y -> Z) =====>



CLERK Z FINALIZES !

CLERK CHANGE ! (CLERK Z -> Y) =====>



CLERK Y FINALIZES !

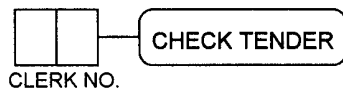
CLERK CHANGE ! (CLERK Y -> X) =====>



CLERK X FINALIZES !

22.2 CONSOLIDATED RECEIPT PRINTING

If you want to issue the consolidated receipt about the clerk to be opened or tendered (by cash or check ...), press the clerk number and the "CHECK TENDER" key.



NOTE : If you set the SYSTEM OPTION 47 to 0, the consolidated receipt is only printed on the receipt of ECR.

If you set the SYSTEM OPTION 47 to 1, the consolidated receipt is printed on the receipt of ECR and the slip printer.

If you set the SYSTEM OPTION 47 to 2, the consolidated receipt is only printed on the slip printer.

NOTE : If you set the SYSTEM OPTION ADDRESS 48 to 0, when cashier overlap, the transaction will be printed on the slip printer.

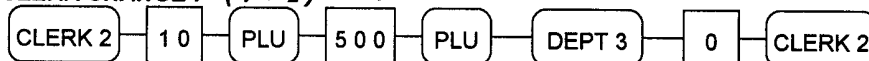
(Refer to SYSTEM OPTION ADDRESS 54 (Page 42) to select the printer type.)

EX) Assume that clerk sign on method is push button type.

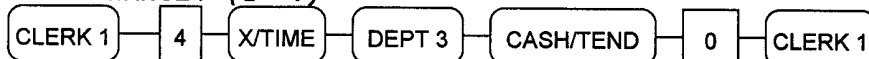
STEP 1 **CLERK 1 ! =>**



STEP 2 **CLERK CHANGE ! (1 -> 2) =====>**



STEP 3 **CLERK CHANGE ! (2 -> 1) =====>**

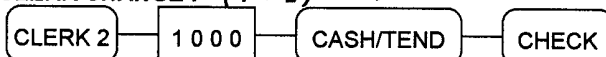


CLERK 1 FINALIZES !

STEP 4



STEP 5 **CLERK CHANGE ! (1 -> 2) =====>**



CLERK 2 FINALIZES !

STEP 6



DATE 12.25.'96 WED
 APPLE X1 -10.00
 APPLE X1 -10.00
 PLU 20 X2 -10.00
 CHG-CLERK -30.00
 CLERK 01 NO.000072
 TIME 14:54 9999

Open amount

DATE 12.25.'96 WED
 ORANGE X1 -5.00
 DEPT.3 X2 -10.00
 CHG-CLERK -15.00
 CLERK 02 NO.000073
 TIME 14:54 9999

* STEP 1 *

* STEP 2 *

DATE 12.25.'96 WED
 RTN-CLERK #1 -30.00
 4X @10.00
 DEPT.3 X2 -40.00
 TOTAL -70.00
 CASH -70.00
 CLERK 01 NO.000074
 TIME 14:55 9999

Consolidated
 receipt

Thank You
 CLERK NO. # 01
 2X @10.00
 APPLE T1 -20.00
 PLU 20 T2 -10.00
 4X @10.00
 DEPT.3 T2 -40.00
 TOTAL -70.00
 CASH -70.00
 CLERK 00 12.25.'96 14:55
 9999 000074
 Call Again

* STEP 3 *

* STEP 4 (SLIP PRINTING) *

DATE 12.25.'96 WED
 RTN-CLERK #2 -15.00
 TOTAL -15.00
 CASH -10.00
 TOTAL -5.00
 CHECK -5.00
 CLERK 02 NO.000075
 TIME 14:55 9999

Consolidated
 receipt

Thank You
 CLERK NO. # 02
 ORANGE T1 -5.00
 DEPT.3 T2 -10.00
 TOTAL -15.00
 CASH -10.00
 CHECK -5.00
 CLERK 02 12.25.'96 14:56
 9999 000075
 Call Again

* STEP 5 *

* STEP 6 (SLIP PRINTING) *

23 PRINTING A BUFFERED RECEIPT OPERATION

If a customer requests a receipt after a sale has been finalized and the "RECEIPT ON/OFF" key was in the 'OFF' position during a sale, the press of the "RECEIPT" key will issue a buffered receipt.
(Up to 70 lines : 50 item lines + 20 tendering lines)

If more than 50 entries are made in the sale, the cash register will issue a stub receipt only, show the total net sale and correct the tax totals and payment tendered.

NOTE : The "RECEIPT ON/OFF" key must be used on "REG / VOID" position and can't be used during transactions.

Press the "RECEIPT ON/OFF" key once to change its status.

When the "RECEIPT ON/OFF" sign is illuminated on the display panel, the receipt printer will be turned off.

Refer to SYSTEM OPTION ADDRESS 21 (Page 39)

24 VALIDATION OPERATION

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

Upon pressing of the "VALID" key, validation will be performed on department and PLU entries,

RECD ACCT & PAID OUT operation, % key entries, merchandise return, voids and tendering operations.

If an operation is programmed as "Validation Compulsory", the cash register will not operate until validation is completed and the message "S P" will appear on the display.

If any other operations are attempted before validation, an error will occur.

Refer to SYSTEM OPTION ADDRESS 20 (Page 39)

* SAMPLE VALIDATION RECEIPTS *

< RECEIPT SIDE >

< JOURNAL SIDE >

01	122596	14:10	000068	RTN	APPLE	-10.00
a	b	c	d	e	f	

01	251296	14:10	000068	DPT	DEPT.3	-10.00
a	b	c	d	e	f	

* Date (b) = SYSTEM OPTION ADDRESS 25 = 1 (DD/MM/YY). (Page 40)

01	961225	14:10	000068	TND	CASH	-10.00
a	b	c	d	e	f	

* Date (b) = SYSTEM OPTION ADDRESS 25 = 2 (YY/MM/DD). (Page 40)

a = Clerk number.

b = Date.

c = Time.

d = Receipt consecutive number.

e = Registration step.

f = Validated transaction content.

25 RECEIPT MESSAGE PRINTING OPERATION

25.1 PREAMBLE MESSAGE

If you want to print the receipt preamble messages on the receipt, you must program **SYSTEM OPTION ADDRESS 43** (Page 41) after programming the preamble message descriptors.

<div>YOUR RECEIPT THANK YOU</div> <div>DATE 12.25.'96 WED</div> <div>APPLE X1 -10.00 ORANGE X1 -10.00 TOTAL -20.00 CASH -20.00 CLERK 02 NO.000078 TIME 14:59 9999</div>	<div>YOUR RECEIPT THANK YOU</div> <div>Thank You SAMSUNG CASH REGISTER ER-51 SERIES</div> <div>DATE 12.25.'96 WED</div> <div>APPLE X1 -10.00 ORANGE X1 -10.00 TOTAL -20.00 CASH -20.00 CLERK 02 NO.000080 TIME 14:59 9999</div>	<div>----- Thank You SAMSUNG CASH REGISTER ER-51 SERIES -----</div> <div>DATE 12.25.'96 WED</div> <div>APPLE X1 -10.00 ORANGE X1 -10.00 TOTAL -20.00 CASH -20.00 CLERK 02 NO.000082 TIME 14:59 9999</div>
---	---	---

* SYSTEM OPTION 43 = 0 * * SYSTEM OPTION 43 = 1 * * SYSTEM OPTION 43 = 2 *

25.2 POSTAMBLE MESSAGE

If you want to print the receipt postamble messages on the receipt, you must program **SYSTEM OPTION ADDRESS 44** (Page 41) after programming the postamble message descriptors.

DATE 12.25.'96 WED	
2X	05.00
DEPT.2 X1	-10.00
TOTAL	-10.00
CASH	-10.00
Call Again	
Have A Nice Day !	
CLERK 02 NO.000094	
TIME 15:00	9999

----- Postamble message

26 TRAIN MODE

If you want to operate the **train mode**, you must program **SYSTEM OPTION ADDRESS 45**.

Refer to **SYSTEM OPTION ADDRESS 45** (Page 41)

NOTE : During the training mode, the journal paper will be not printed.

REPORT AND BALANCING

REPORT	REPORT NO.	REPORT TYPE	KEY LOCK	KEY SEQUENCE
FINANCIAL	1	X	X	1 SUBTL
		Z	Z	1 SUBTL
		X2	X	201 SUBTL
		Z2	Z	201 SUBTL
TIME	2	X	X	2 SUBTL
		Z	Z	2 SUBTL
		X2	X	202 SUBTL
		Z2	Z	202 SUBTL
PLU	3	X	X	3 SUBTL
		Z	Z	3 SUBTL
		X2	X	203 SUBTL
		X2	Z	203 SUBTL
IN-DRAWER	4	X	X	4 SUBTL
DAILY SALES	5	X2	X	205 SUBTL
		Z2	Z	205 SUBTL
OPEN TABLE (or OPEN CLERK)	6	X	X	6 SUBTL
INDIVIDUAL CLERK		X	X	SUBTL CLERK
		Z	Z	SUBTL CLERK
		X2	X	20 SUBTL CLERK
		Z2	Z	20 SUBTL CLERK
FROM/TO DEPT		X	X	FROM DEPT. KEY TO DEPT. KEY
FROM/TO PLU		X	X	FROM XXXX (PLU NO.) PLU TO XXXX (PLU NO.) PLU
DEPARTMENT	30	X	X	30 SUBTL
		Z	Z	30 SUBTL
		X2	X	230 SUBTL
		Z2	Z	230 SUBTL

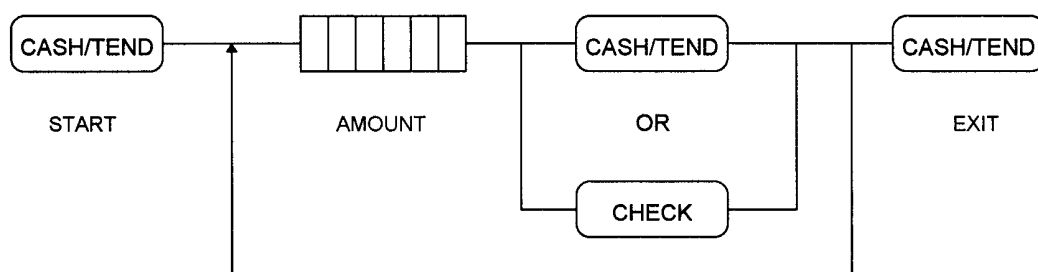
1 REPORT MODES

REPORT TYPE	TOTALS	Z Counter	REMARKS
X	Not reset	Not advance	
Z	Reset to '0'	Advance	
X2	Not reset	Not advance	Period-to-date report
Z2	Reset to '0'	Advance	Period-to-date report

**NOTE : If you don't want to open the drawer when the reports are run,
set SYSTEM OPTION ADDRESS 5 to value 'b'. (Page 38)**

2 CASH DECLARATION

If the compulsory cash declaration is programmed (SYSTEM OPTION ADDRESS 5),
the cash declaration must be performed in "X / Z" mode prior to taking X / Z reports.



**NOTE : After doing cash declaration in the 'X / Z' mode, if you turn the control key to any other
position except the 'X / Z', the cash declaration function will be lost.
So if you want to print the reports, you should perform the cash declaration again.**

DATE 12.25.'96 WED

* CASH DECLARATION *

CASH •1601.00

CHECK •144.00

TOTAL •1745.00

CLERK 01 NO.000006

TIME 15:06 9999

Cash declaration amount ———

————— Check declaration amount

————— Declaration total amount

3 REPORTS

3.1 OPEN TABLE (or OPEN CLERK) REPORT

NOTE : If you operate table management (SYSTEM OPTION ADDRESS 46 = 0),

open table report will be issued,

while if you operate cashier overlap (SYSTEM OPTION ADDRESS 46 = 1),

open clerk report will be issued.

NOTE : If open table (or clerk) exists, the reports in 'Z' mode will not be issued and an error tone will sound ('E9').

So if you want to issue the reports in 'Z' mode, you must finalize the open table (or clerk).

A. X open table (or clerk) report (Key lock : 'X')

6

SUBTL

* SAMPLE OPEN TABLE REPORT *

* SAMPLE OPEN CLERK REPORT *

DATE 12.25.'96 WED	
X1 REPORT	0001

OPEN TABLE	
TABLE 1	
OPEN AMT	10.00
TABLE 25	
OPEN AMT	50.00
CLERK 02 NO.000089	
TIME 15:01	9999

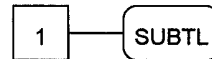
Open amount

DATE 12.25.'96 WED	
X1 REPORT	0001

OPEN CLERK	
CLERK 01	
OPEN AMT	15.00
JAMES	
OPEN AMT	23.50
CLERK 02 NO.000095	
TIME 15:01	9999

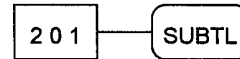
3.2 FINANCIAL REPORT

A. X financial report (Key lock : 'X')



B. Z financial report (Key lock : 'Z')

C. X2 financial report (Key lock : 'X')



D. Z2 financial report (Key lock : 'Z')

* SAMPLE FINANCIAL REPORT *

DATE 12.25.'96 WED			
X1 REPORT 0001	—— Z Report issuing counter		

FINANCIAL			
GROUP0	—— Group 0		
CNT 149.65	—— Activity counter —> (XXX.XX)	Integer part	
SALES AMT -1762.14	—— Group 0 sales total	Fraction part	
GROUP1			
CNT 0.00			
SALES AMT -0.00			
GROUP2			
CNT 0.00			
SALES AMT -0.00			
GROUP3			
CNT 0.00			
SALES AMT -0.00			
GROUP4			
CNT 0.00			
SALES AMT -0.00			
GROUP5			
CNT 0.00			
SALES AMT -0.00			
GROUP6			
CNT 0.00			
SALES AMT -0.00			
GROUP7			
CNT 4.00			
SALES AMT -40.00			

All group counter/total	——	GROUP8	
		CNT	0.00
		SALES AMT	-0.00
		GROUP9	
		CNT	0.00
		SALES AMT	-0.00
		GROUP CNT	153.65
		GROUP TOTAL	-1802.14

Positive dept. counter/total	——	+DEPT TTL	152.65
			-1803.14
Negative dept. counter/total	——	-DEPT TTL	1.00
			-1.00
Adjusted dept. counter/total	——	ADJUST TTL	153.65
			-1802.14

NONTAX	▪56.00
TAXABLE 1	▪872.03
	15.000%
TAX1 AMT	▪113.93
TAXABLE 2	▪796.50
	10.000%
TAX2 AMT	▪72.53
TAXABLE 3	▪30.00
	8.000%
TAX3 AMT	▪2.31
TAXABLE 4	▪32.00
	5.000%
TAX4 AMT	▪1.56
% 1	5
	-1.55
% 2	4
	▪0.39
NET	45
	▪1765.73
TAX1 SHIFT	1
	▪10.00
TAX3 DELETE	1
	▪10.00
RETURN	5
	-49.00
ERROR CORR	1
	-10.00
PREVIOUS VOID	1
	-10.00
MODE VOID	1
	-45.00
CANCEL	2
	▪66.00
GROSS	▪1889.28
EAT-IN	1
	▪50.00
TAKE-OUT	1
	▪50.00
DRIVE-THRU	1
	▪23.69
CASH	43
	▪1660.73
CHECK	6
	▪90.00
RECD ACCT	1
	▪3.00
PAID OUT	1
	-5.50

_____ Nontaxable amount
 _____ Total sale taxable by tax 1
 _____ Tax 1 rate
 _____ Tax 1 amount

_____ Customer counter
 _____ Net amount

_____ HASH dept. & PLU
 counter/total
 _____ Negative PLU linked to
 positive dept. counter/total

_____ All zero & negative sale
 counter/total

_____ Cash in drawer total
 _____ Cash declaration amount
 _____ Cash declaration over/short
 _____ Check in drawer total

_____ Check declaration amount
 _____ Check declaration over/short
 _____ Charge 1 sales counter/total

_____ Cash sales counter/total
 _____ Foreign currency total
 _____ Check sales counter/total
 _____ Drawer total
 _____ Train mode counter/total

HASH AMT	4
	▪40.00
-PLU LINKED TO +DEPT	0
	▪0.00
AUDACT	1
	-39.00
NOSALE	2
NON-ADD#	12345678
CASH-IN-D	▪1601.77
CASH DEC AMT	▪1601.00
OVER/SHORT	-0.77
CHECK-IN-D	9
	▪144.00
CHK DEC AMT	▪144.00
OVER/SHORT	▪0.00
CHARGE 1	2
	▪40.00
CHARGE 2	3
	▪15.00
CONV1	▪6.00
CONV2	▪0.00
DRAWER TTL	▪1800.77
TRAIN TTL	2
	▪88.25

```

*****
CLERK 01      37
NET          -1597.23
NOSALE        2
-----
CLERK 02      7
NET          -145.00
NOSALE        0
-----
CLERK 03      0
NET          -0.00
NOSALE        0
-----
JAMES         1
NET          -23.50
NOSALE        0
-----
CLERK 05      0
NET          -0.00
NOSALE        0
-----
CLERK 06      0
NET          -0.00
NOSALE        0
-----
CLERK 07      0
NET          -0.00
NOSALE        0
-----
CLERK 08      0
NET          -0.00
NOSALE        0
-----
CLERK 09      0
NET          -0.00
NOSALE        0
-----
CLERK 10      0
NET          -0.00
NOSALE        0
-----
CLERK 11      0
NET          -0.00
NOSALE        0
-----
CLERK 12      0
NET          -0.00
NOSALE        0

```

_____ Clerk's customer counter
 _____ Clerk's net amount
 _____ Clerk's nosale counter

GRAND total _____

```

-----
CLERK 13      0
NET          -0.00
NOSALE        0
-----
CLERK 14      0
NET          -0.00
NOSALE        0
-----
CLERK 15      0
NET          -0.00
NOSALE        0
*****
GRAND
                                -1869.28

CLERK 01      NO.000007
TIME 15:07    9999

```


3.3 TIME REPORT

A. X time report (Key lock : 'X')

2 SUBTL

B. Z time report (Key lock : 'Z')

C. X2 time report (Key lock : 'X')

2 0 2 SUBTL

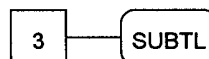
D. Z2 time report (Key lock : 'Z')

* SAMPLE TIME REPORT *

DATE	12.25.'96	WED	
X1 REPORT	0001		
TIME			
12:00-13:00			
CNT	18	Activity counter	
SALES AMT	1120.54	Hour total	
SALE RATE	62.05%	Hour sale rate	
13:00-14:00			
CNT	12		
SALES AMT	228.00		
SALE RATE	12.62%		
14:00-15:00			
CNT	8		
SALES AMT	275.00		
SALE RATE	15.22%		
15:00-16:00			
CNT	7		
SALES AMT	182.19		
SALE RATE	10.00%		
TOTAL CNT	45	Total sales counter/total	
TOTAL AMT	1805.73	for all time period	
CLERK 01	NO.000008		
TIME 15:07	9999		

3.4 PLU REPORT

A. X PLU report (Key lock : 'X')



B. Z PLU report (Key lock : 'Z')

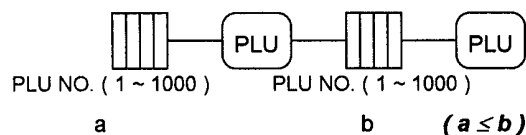
C. X2 PLU report (Key lock : 'X')



D. Z2 PLU report (Key lock : 'Z')

3.5 FROM / TO PLU REPORT

A. X from / to PLU report (Key lock : 'X')



**NOTE : If you press the "CASH/TEND" key during issuing the PLU or FROM/TO PLU report,
the report will be finished after printing TOTAL COUNT and TOTAL AMOUNT.**

* SAMPLE PLU REPORT *

DATE 12.25.'96 WED	
X1 REPORT 0001	

ALL PLU	
PLU10: ORANGE	
PLU# 12345678	PLU code
LINKED DEPT 1	Linked dept.
CNT X1 19.50	Activity counter
SALES AMT *217.50	PLU sale total
SALE RATE 41.46%	PLU sale rate
PLU 20	
PLU# 20010	
LINKED DEPT 2	
CNT X2 14.50	
SALES AMT *265.00	
SALE RATE 50.52%	
PLU 40	
LINKED DEPT 4	
CNT X4 98.00	
SALES AMT *2.00	
SALE RATE 0.38%	

PLU 50	
PLU# 50100	
LINKED DEPT 6	
CNT X1 2.00	
SALES AMT *20.00	
SALE RATE 3.81%	
PLU 1000	
LINKED DEPT 108	
CNT X1 4.00	
SALES AMT *20.00	
SALE RATE 3.81%	
TOTAL CNT 42.00	
TOTAL AMT *524.50	
CLERK 01 NO.0000009	
TIME 15:07 9999	

All PLU counter/total

3.6 IN-DRAWER REPORT

A. X in-drawer report (Key lock : 'X')

4 — SUBTL

3.7 DAILY SALES REPORT

A. X2 daily sales report (Key lock : 'X')

2 0 5 — SUBTL

B. Z2 daily sales report (Key lock : 'Z')

* SAMPLE IN-DRAWER REPORT *

* SAMPLE DAILY SALES REPORT *

```
DATE 12.25.'96 WED
X1 REPORT      0001
-----
IN-DRAWER

CASH      •1601.77
CHECK      9
           •144.00

CLERK 01  NO.000010
TIME 15:07      9999
```

————— Cash in
drawer total
————— Check in
drawer total

```
DATE 12.25.'96 WED
X2 REPORT      0001
-----
DAILY SALES

DAY : 25
CNT              45
SALES AMT      •1805.73

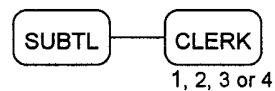
TOTAL CNT              45
TOTAL AMT      •1805.73

CLERK 01  NO.000011
TIME 15:08      9999
```

3.8 INDIVIDUAL CLERK REPORT

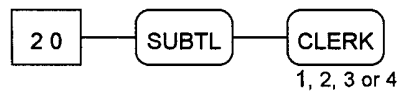
3.8.1 IN CASE OF 4 CLERKS (SYSTEM OPTION 28's VALUE 'C' = 0)

A. X individual clerk report (Key lock : 'X')



B. Z individual clerk report (Key lock : 'Z')

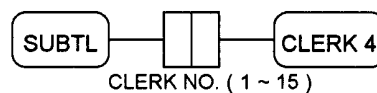
C. X2 individual clerk report (Key lock : 'X')



D. Z2 individual clerk report (Key lock : 'Z')

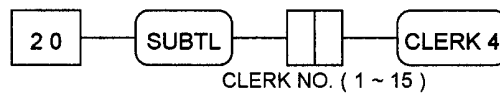
3.8.2 IN CASE OF 15 CLERKS (SYSTEM OPTION 28's VALUE 'C' = 4)

A. X individual clerk report (Key lock : 'X')



B. Z individual clerk report (Key lock : 'Z')

C. X2 individual clerk report (Key lock : 'X')



D. Z2 individual clerk report (Key lock : 'Z')

* SAMPLE INDIVIDUAL CLERK REPORT *

DATE 12.25.'96 WED	
X1 REPORT 0001	

CLERK	
CLERK 01	37
NET	1597.23
NOSALE	2
CLERK 01	NO.000012
TIME 15:08	9999

———— Clerk's customer counter
 ——— Clerk's net amount
 ——— Clerk's nosale counter

* OPTIONAL FULL CLERK REPORT (SYSTEM OPTION 8) *

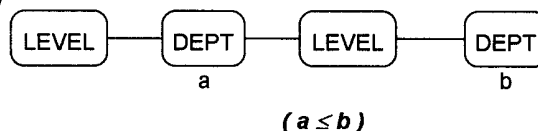
DATE	12.25.'96	WED
X1 REPORT	0001	

CLERK		
CLERK 01	37	
NET	•1597.23	
NONTAX	•56.00	
TAXABLE 1	•713.53	
TAX1 AMT	•93.26	
TAXABLE 2	•786.50	
TAX2 AMT	•71.62	
TAXABLE 3	•30.00	
TAX3 AMT	•2.31	
TAXABLE 4	•32.00	
TAX4 AMT	•1.56	
Z 1	5	
	-1.55	
Z 2	4	
	•0.39	
RETURN	5	
	-49.00	
ERROR CORR	1	
	-10.00	
PREVIOUS VOID	1	
	-10.00	
MODE VOID	1	
	-45.00	
CANCEL	2	
	•66.00	
RECD ACCT	1	
	•3.00	
PAID OUT	1	
	-5.50	
CASH-IN-D	•1438.27	
CHECK-IN-D	8	
	•139.00	

CHARGE 1	2
	•40.00
CHARGE 2	3
	•15.00
CONV1	•6.00
CONV2	•0.00
DRAWER TTL	•1632.27
TRAIN TTL	2
	•88.25
NDSALE	2
CLERK 01	NO.000014
TIME 15:09	9999

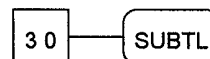
3.9 FROM / TO DEPARTMENT REPORT

A. X from / to department report (Key lock : 'X')



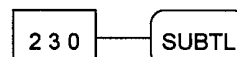
3.10 DEPARTMENT REPORT

A. X department report (Key lock : 'X')



B. Z department report (Key lock : 'Z')

C. X2 department report (Key lock : 'X')



D. Z2 department report (Key lock : 'Z')

* SAMPLE DEPARTMENT REPORT *

DATE	12.25.'96	WED
X1 REPORT	0001	

ALL DEPT		
DEPT.1:APPLE		
CNT X1	63.00	
SALES AMT	-795.50	
SALE RATE	44.14%	
DEPT.2		
CNT X1	20.50	
SALES AMT	-313.69	
SALE RATE	17.40%	
DEPT.3		
CNT X2	43.00	
SALES AMT	-534.95	
SALE RATE	29.68%	
DEPT.4		
CNT X3	5.00	
SALES AMT	-47.00	
SALE RATE	2.60%	
DEPT.5		
CNT	51.00	
SALES AMT	-1.00	
DEPT.6		
CNT X1&3	3.00	
SALES AMT	-30.00	

Activity counter
Dept. sale total
Dept. sale rate
Gallorage dept. price

HASH dept. price

All Dept. counter/total

SALE RATE	1.66%
DEPT.7	
CNT	2.00
SALES AMT	-2.00
SALE RATE	0.11%
DEPT.108	
CNT	4.00
SALES AMT	-20.00
SALE RATE	1.10%
DEPT.214	
CNT	7.15
<GAL> AMT	01.399
SALES AMT	-10.00
SALE RATE	0.55%
DEPT.215	
CNT	1.00
SALES AMT	-10.00
SALE RATE	0.55%
DEPT.321	
CNT X4	4.00
<HASH> AMT	010.00
SALES AMT	-40.00
SALE RATE	2.21%
TOTAL CNT	153.65
TOTAL AMT	-1802.14
CLERK 01	NO.000015
TIME 15:09	9999

TROUBLE SHOOTING

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

- * Is the **power cord** plugged into the main socket correctly ?
- * Is the **wall outlet** supplying 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 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

Totaled 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 about one year of use.

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

NOTE : A weak battery has the potential of losing valuable transaction data.

SPECIFICATION

POWER	AC 230 V , 50 Hz	
CABINET	ABS (V0)	
PRINTER	ERP-300V (2 STATION DOT-MATRIX PRINTER)	
DISPLAY	FRONT 10 DIGITS / REAR 10 DIGITS	
DRAWER	METAL (8 COINS / 4 BILLS)	
WEIGHT	15.0 Kg	
DIMENSION	SET = 374 (W) x 458 (D) x 195 (H)	DRAWER = 400 (W) x 450 (D) x 111 (H) (Including foot)
USAGE CONDITION	TEMPERATURE : 0 °C ~ 40 °C	HUMIDITY : 10 % ~ 90 %
NOISE	UNDER 70 dB	

APPENDIX

1 CHARACTER CODE TABLE

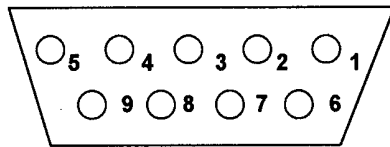
CHAR	á	à	â	ä	å	Ä	Å	é	è	ê
CODE	001	002	003	004	005	006	007	008	009	010
CHAR	ë	É	Í	Ì	Î	Ï	Í	Ñ	Ñ	Ó
CODE	011	012	013	014	015	016	017	018	019	020
CHAR	ò	ô	ö	Ö	ú	ù	ü	û	Û	æ
CODE	021	022	023	024	025	026	027	028	029	030
CHAR	ß	SPACE	!	"	#	\$	%	&	'	(
CODE	031	032	033	034	035	036	037	038	039	040
CHAR	)	*	+	,	-	.	/	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	Pt	f	¢	£	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								

2 ALPHA-NUMERIC KEYBOARD LAYOUT

RECEIPT FEED	Ä ¹	í ¹⁰	Ö ¹⁹	!	+	5 ⁴⁸	? ⁵⁸	I ⁶⁸	S ⁷⁸	f ⁸⁸	g ⁹⁸	q				
DETAIL FEED	Ā	î ¹¹	ő ¹⁹	"	,	6 ⁴⁹	@ ⁵⁹	J ⁶⁹	T ⁷⁹	¢ ⁸⁹	h ⁹⁹	r				
	A ²	ï ¹¹	ú ²⁰	#	-	7 ⁵⁰	A ⁶⁰	K ⁷⁰	U ⁸⁰	£ ⁹⁰	i ¹⁰⁰	s				PAID OUT
	é ³	í ¹²	ù ²¹	\$	.	8 ⁵¹	B ⁶¹	L ⁷¹	V ⁸¹	Ft ⁹¹	j ¹⁰¹	t				
	è ⁴	ñ ¹³	ü ²²	%	/	9 ⁵²	C ⁶²	M ⁷²	W ⁸²	a ⁹²	k ¹⁰²	u				
	ê ⁵	Ñ ¹⁴	û ²³	&	o	:	D ⁶³	N ⁷³	X ⁸³	b ⁹³	l ¹⁰³	v			BKSP	
	ë ⁶	ó ¹⁵	ü ²⁴	'	1	;	E ⁶⁴	O ⁷⁴	Y ⁸⁴	c ⁹⁴	m ¹⁰⁴	w			8	
	É ⁷	ò ¹⁶	æ ²⁵	(	2	<	F ⁶⁵	P ⁷⁵	Z ⁸⁵	d ⁹⁵	n ¹⁰⁵	x			5	
	Í ⁸	ô ¹⁷	ß ²⁶	)	3	=	G ⁶⁶	Q ⁷⁶	Æ ⁸⁶	e ⁹⁶	o ¹⁰⁶	y			2	DOUBLE
	ì ⁹	ö ¹⁸	SPACE ²⁷	*	4	>	H ⁶⁷	R ⁷⁷	Pt ⁸⁷	f ⁹⁷	p ¹⁰⁷	z			00	CASH/ TEND

3 COMMUNICATION INTERFACE

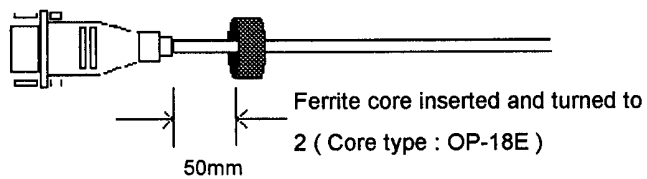
3.1 PIN DESCRIPTION FOR SERIAL INTERFACE



SERIAL PORT

SERIAL PORT	
PIN NO.	SIGNAL
1	Not connect
2	RXD
3	TXD
4	DTR
5	GND
6	Not connect
7	Not connect
8	Not connect
9	Not connect

3.2 CABLE SPECIFICATION



CABLE FOR SERIAL PORT

4 COMMUNICATION WITH PC

This cash register can communicate with PC.

The programming contents are downloaded from PC and uploaded to PC.

The reports are uploaded to PC.

To communicate with PC,

- (1) Turn the control lock key to the "SERVICE MODE".
- (2) Press the "RECD ACCT" key. The message "--OnLine--" will be shown on the display.

NOTE : If you want to escape from "online" mode, press the "CLEAR" key.

5 PRINTING ON THE ROLL PRINTER

If you want to print the sale items on the roll printer, set the SYSTEM OPTION ADDRESS 48 to 1.

And then, the sale items will be printed on the roll printer when tendering.

Refer to SYSTEM OPTION ADDRESS 54 (Page 42) to select the printer type.

NOTE : If the roll printer is disconnected, the contents will be printed on the receipt.



DATE 12.25.'96 WED		
APPLE X1	10.00	— KP item
3X	10.00	
DEPT.3 X2	30.00	— KP item
PLU 20 X2	10.00	— KP item
TOTAL	50.00	
CASH	50.00	
CLERK 01	NO.000104	
TIME 15:14	9999	

ORDER # 0001	
001	APPLE
003	DEPT.3
001	PLU 20
CLERK 01	12.25.'96 15:15 9999 000104

6 SCALE

If you want to operate **the scale**, set the **SYSTEM OPTION ADDRESS 42** to 1.

And then you can use the "PRICE INQ." key as the "SCALE" key.

6.1 DIRECT SCALE ENTRY

When product is placed on the scale and the "SCALE" key is pressed, the weight will be appear on the display.

EX) SCALE — 20 — PLU — CASH/TEND

DATE 12.25.'96 WED	
4.081b	@10.00
PLU 20 X2	=40.80
TOTAL	=40.80
CASH	=40.80
CLERK 01	NO.000106
TIME 15:17	9999

6.2 MANUAL WEIGHT ENTRY

If you want to make **manual weight entries**, set the **SYSTEM OPTION ADDRESS 42's** value 'b'.

EX) 1.25 — SCALE — 500 — DEPT 1 — CASH/TEND
Weight (0.001 ~ 999.999)

DATE 12.25.'96 WED	
1.251b	@5.00
APPLE X1	=6.25
TOTAL	=6.25
CASH	=6.25
CLERK 01	NO.000108
TIME 15:18	9999