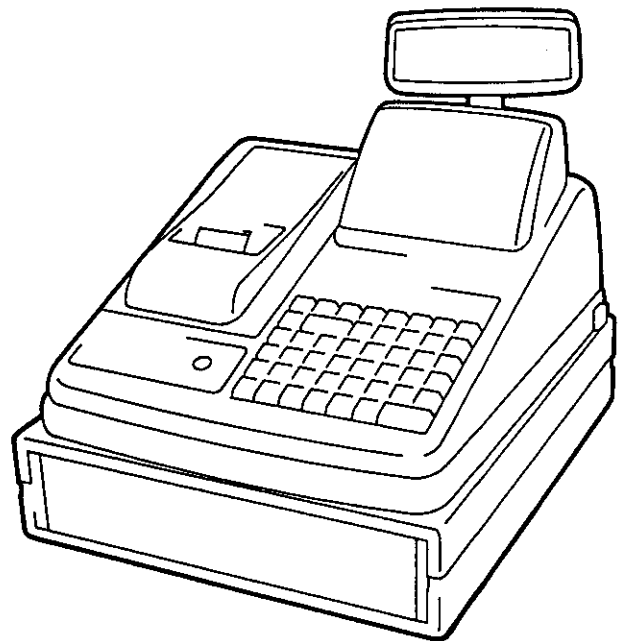


TEC

TEC Electronic Cash Register

MA-85-100

Owner's Manual



TOKYO ELECTRIC CO., LTD.

NOTICE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING

"THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS A LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS."

"LE PRÉSENT APPAREIL NUMÉRIQUE N'EMET PAS DE BRUITS RADIOÉLECTRIQUES DÉPASSANT LES LIMITES APPLICABLES AUX APPAREILS NUMÉRIQUES DE LA CLASSE A PRESCRITES DANS LE RÉGLEMENT SUR LE BROUILLAGE RADIOÉLECTRIQUE ÉDICTÉ PAR LE MINISTÈRE DES COMMUNICATIONS DU CANADA."

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1-14-10 Uchikanda, Chiyoda-ku, Tokyo, JAPAN

1. Introduction

Thank you for choosing the TEC electronic cash register MA-85-100 series. This instruction manual provides a description of the functions and handling of this register and should be read carefully to ensure optimum performance. Since every consideration has been given to safety and reliability, there is no danger of damaging the machine by incorrect operation.

Please refer to this manual whenever you have any questions concerning the machine. This machine has been manufactured under strict quality control and should give you full satisfaction. However, if the machine is damaged during transit, or there are any unclear points in this manual:

For supplies, service or assistance call:

Please have the following information available when you call:

Product Name: TEC Electronic Cash Register

Model: MA-85-100

Serial Number: _____

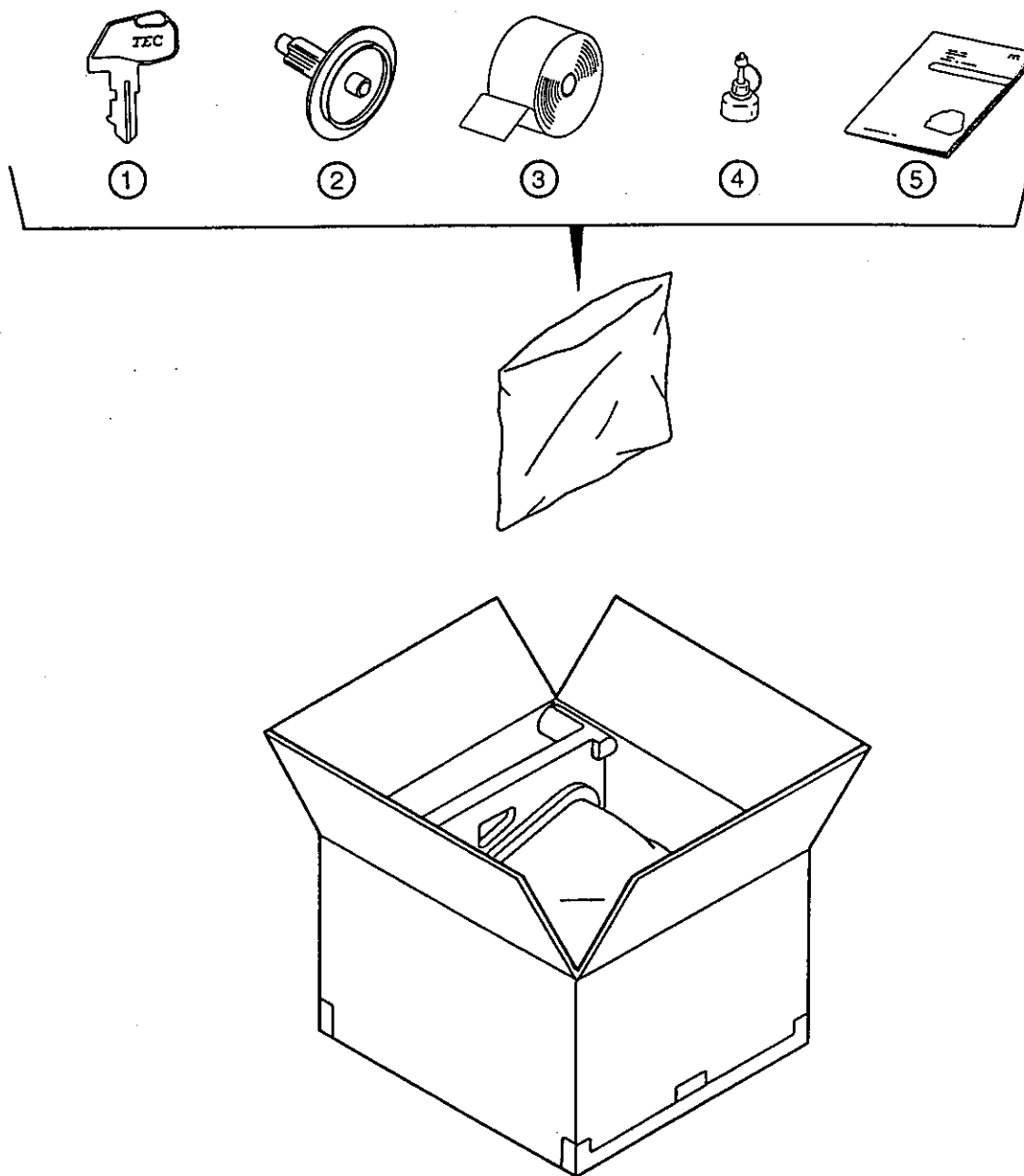
Place Purchased: _____

Date of Purchase: _____

If for any reason this product is to be returned to the store where purchased, it must be packed in the original carton.

- The specifications described in this manual may be modified by TEC, if necessary.
- Be sure to keep this manual for future reference.

2. Unpacking



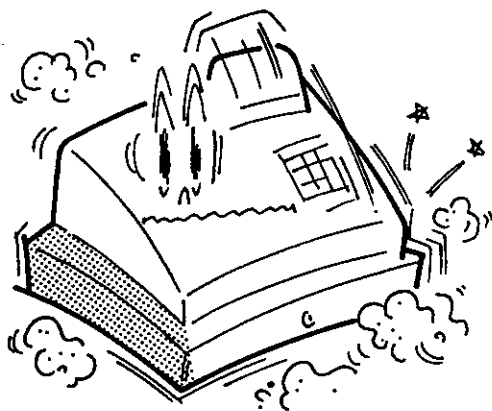
- | | |
|--|--------------------------|
| ① Control Key
(REG Key, MA Key, S Key; 2 pcs. respectively) | ④ Stamp Ink (1 pc.) |
| ② Journal Take-up Reel (1 pc.) | ⑤ Owner's Manual (1 pc.) |
| ③ Paper Roll 58mm x Ø50mm (1 pc.) | |

3. Precautions

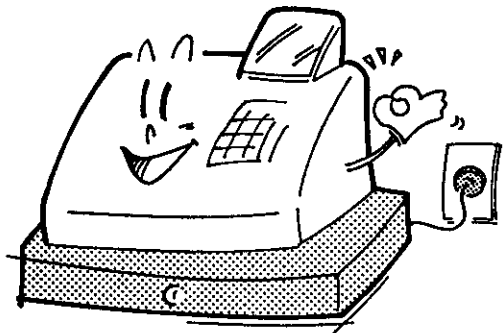
The ECR is a precision machine. Please handle it carefully considering the following guidelines.

Remarks on the Location

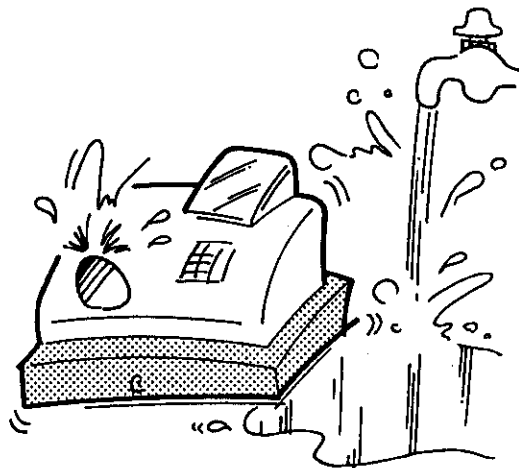
Do not place it where unusual temperature changes are expected or where it will be subjected to direct sunlight.



Keep it away from water sources.



Place it on a flat and level surface with little dust, humidity, vibration, etc.

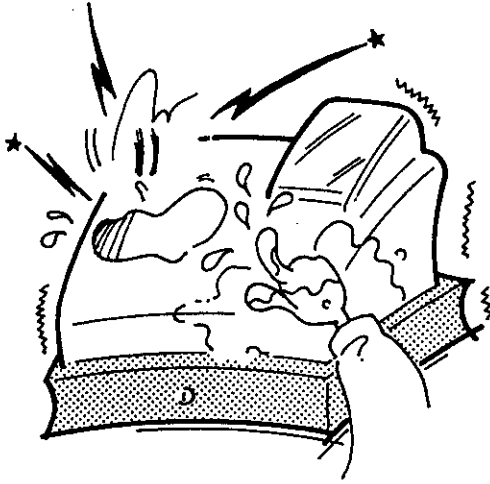


Be certain that the power voltage in your area matches that required for the machine. (The rated voltage is 117V AC.)

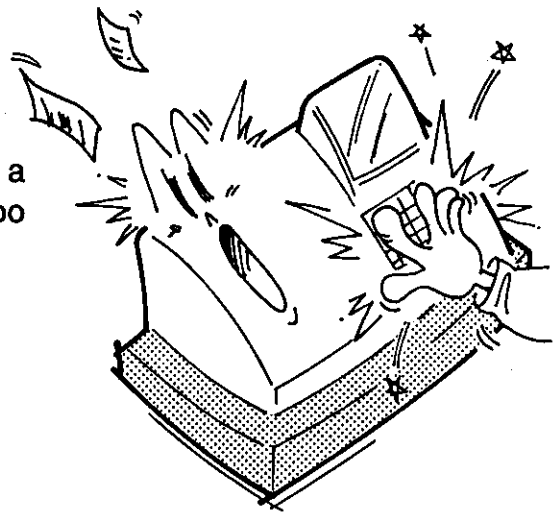
The socket-outlet shall be installed near the equipment and shall be easily accessible.

Remarks on Operating the ECR

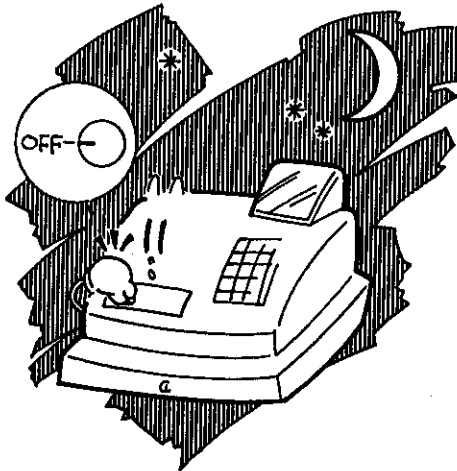
The keys on the keyboard function with a light touch. Avoid pressing the keys too hard.



Do not handle the machine with wet hands, since this may cause electrical malfunctions and corrosion of parts.

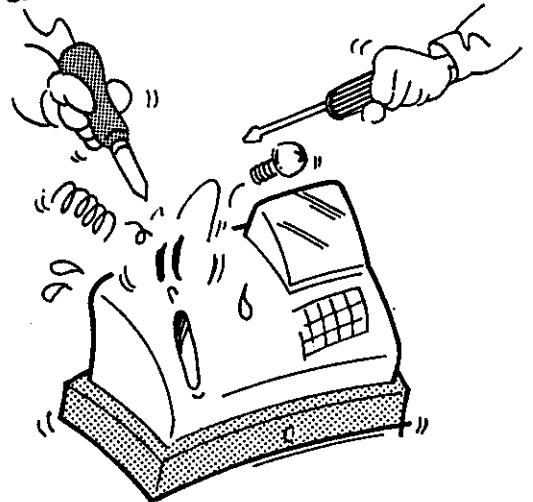


Do not apply thinner, benzene, or other volatile materials to the cabinet or other plastic parts. Such liquids will cause discoloration or deterioration. If dirty, wipe off with a piece of cloth soaked in a neutral detergent and wrung out thoroughly.



Turn the Control Lock to **OFF** position when all operations are completed after business hours.

Never try to repair the ECR. If a problem occurs, please call your authorized TEC dealer, reseller or local TEC representative.



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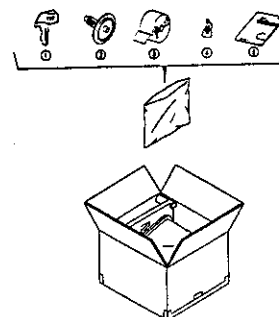
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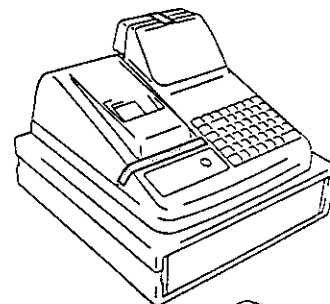
5. Outline of Preparation Procedure Before Operating the ECR

This chapter shows the outline of set-up procedure of the ECR before actually starting the ECR operation.

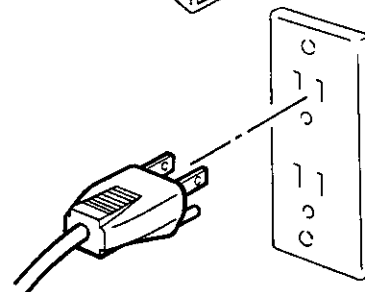
- 1 Remove the cash register from the carton, referring to Chapter "2. Unpacking" on page 2. And take out all the parts and accessories.



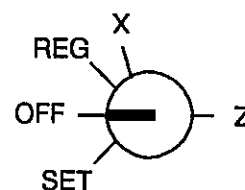
- 2 Remove the tapes and seals for holding parts or protecting the register surfaces.



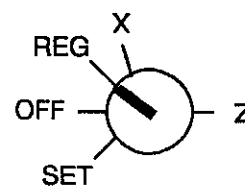
- 3 Plug the power cord of the register into a wall outlet. Make sure that the outlet voltage matches that of the power required for the register.



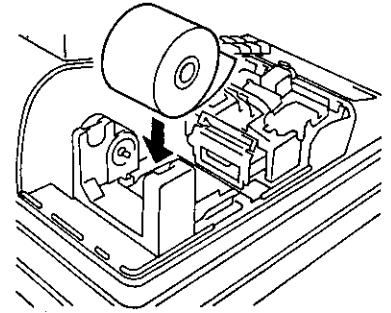
- 4 Insert the MA key into the Control Lock.



- 5 Turn the Control Lock to the REG position.



6 Install the paper roll (referring to Chapter "10. Installing the Paper Roll").



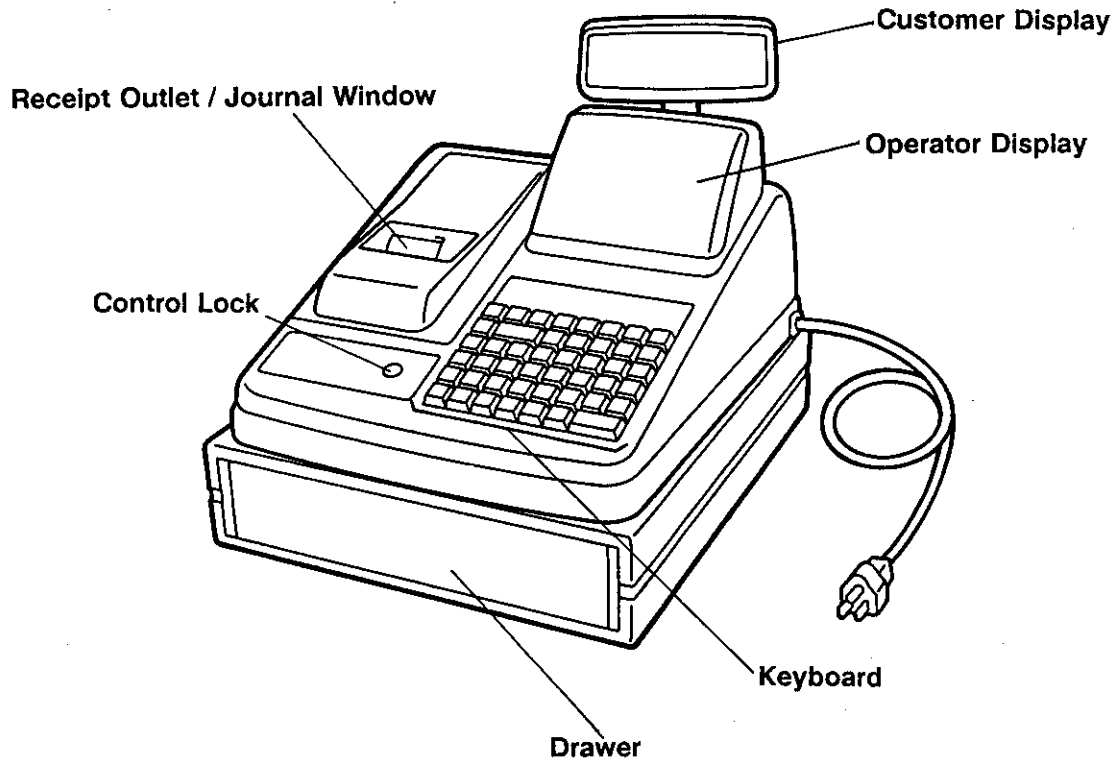
7 If any optional keys are installed or relocated on the keyboard, the optional key setting programming must be performed first before any other programming. Refer to Chapter "13. Optional Key Setting."

8 Set the time and date correctly, referring to Chapter "11. Setting the Time and Date".

9 Set the tax tables, referring to the Chapter "12. Tax Table Setting".

10 Perform programming of the register, such as Departments and PLUs, according to the requirement of the market and your store (refer to Chapter 14 and thereafter).

6. Appearance and Nomenclature



Operator Display

Used by the operator to confirm the entry contents and the status of the register. (page 12)

Customer Display

Provided for the customer to see the amount entered for each item and sale total. (page 12)

Receipt Outlet / Journal Window

The operator can see which items have already been entered through this window with the Journal-format Option. The receipt for the finalized sale is issued with the Receipt-format Option.

Control Lock

It selects the type of register operations. (page 11)

Keyboard

Used to enter sale items. (page 14)

Drawer

Cash and other media are kept here. It automatically opens on finalizing a sale.

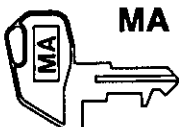
7. Control Lock and Control Keys

Control Keys

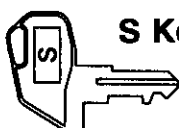
There are three types of Control keys: the **REG** (registration) key, the **MA** (manager) key, and the **S** (service) key.



REG Key: The REG key is used by the cashier or clerk who operates ordinary transaction entries. This key can access the positions of **OFF** and **REG** of the Control Lock.



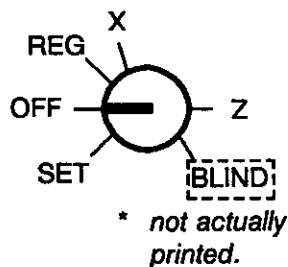
MA Key: The MA Key is used by the store manager or owner who will daily supervise the collection of money and printout of transactions recorded by the register. This key is also used when programming the register. This key can access the positions of **SET**, **OFF**, **REG**, **X**, and **Z**.



S Key: The S key is used by the owner. This key can access any position including **BLIND** of the Control Lock. However, to prevent programmed data and sales data from being changed by mistake, use the REG or MA keys for transaction entries or report taking purposes.

Control Lock

The Control Lock has five effective positions for different modes of operation, which are accessed by the appropriate Control Keys.

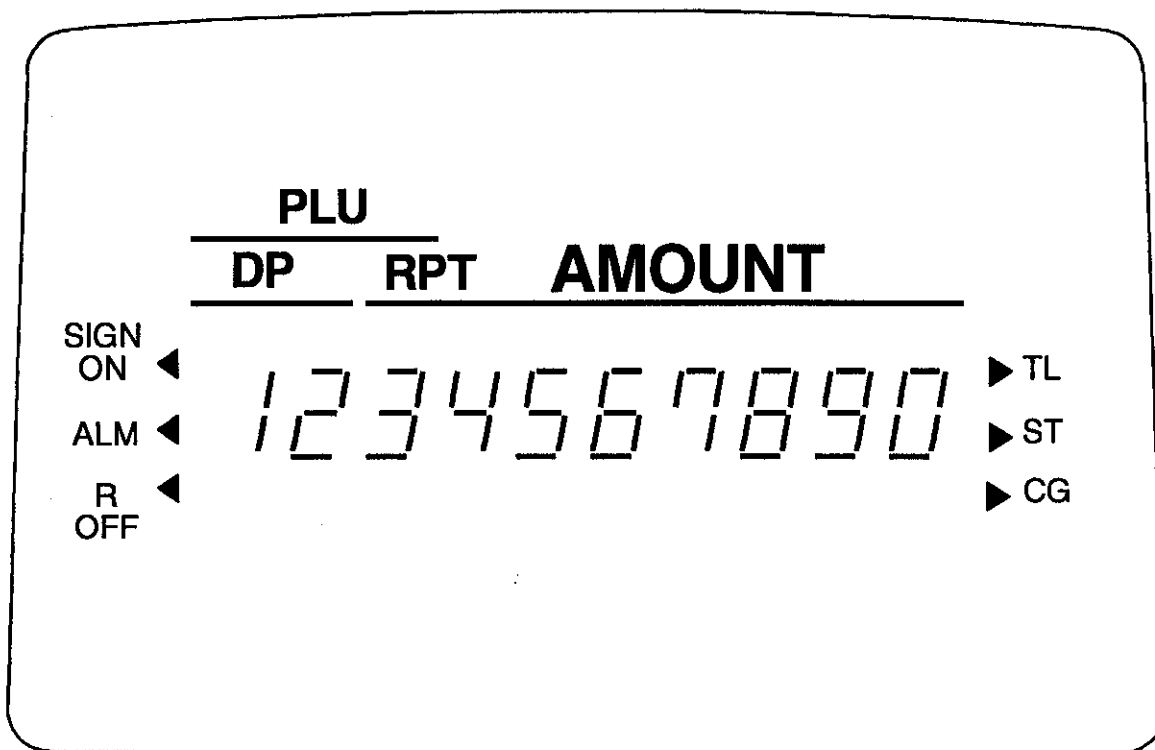


(position)	(function)
SET	The register allows programming operations.
OFF	Nothing appears on the display in this position. However, the power is being supplied to the register.
REG	Transaction entries are carried out in this mode. Displays the current time while no entries are under way.
X	The sale totals in memory can be read (X reports) and the programmed data can be verified in this position.
Z	All the resettable totals and their respective counters in memory will be read <u>and</u> reset in this position (Z reports)
BLIND	The register allows special programming operations and memory clear operations.

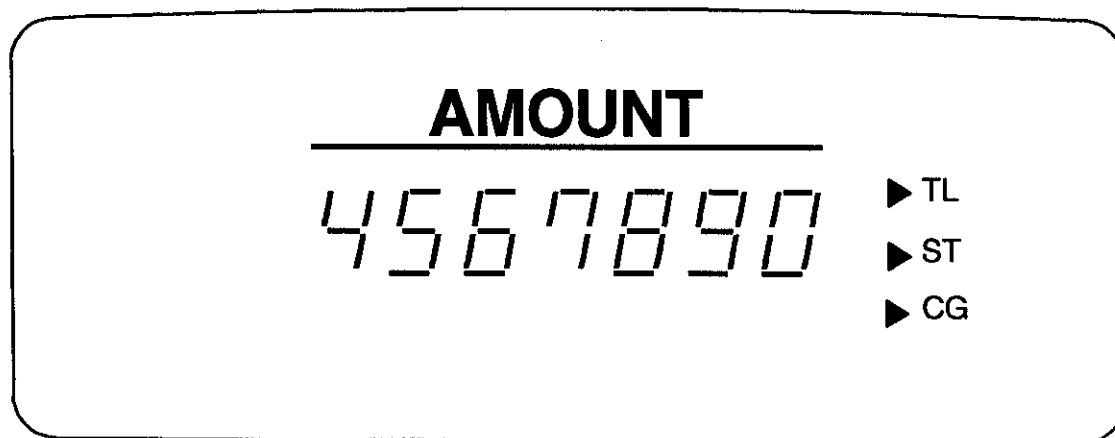
8. Display

The Operator's Display (front display) is located at the top of the register just above the keyboard. The Customer's Display may be used only as a rear display if left in the retracted position or it can be positioned for viewing at other angles by pulling it upward and turning it to the desired position. The display has two types of display portions -- numeric display and message descriptors (triangular lamps).

Operator's Display



Customer's Display



Numeric Display

AMOUNT (8 digits for total display, 7 digits for entries):

Displays the numeric data, such as amount, quantity, etc. When the obtained total or subtotal amount is 8-digit, the **RPT** digit is also used for the amount display. When no entries are under way and the Control Lock is in the **REG** position, the current time is displayed.

DP (2 digits): Displays the code which represents each Department key. It stays lit when repeating the same department entry.

RPT (1 digit): Displays the repeat count of the same item. The count is indicated from the second entry on, and only the last digit will be displayed even if the count exceeds nine.

PLU (3 digits of the DP and RPT are used for this purpose):

Displays the PLU code when any PLU is entered. It goes out when repeating the same PLU entry, then only the RPT digit will be displayed for the repeat entry count.

Message Descriptors (Triangular Lamps)

SIGN ON : Illuminates when a cashier has signed ON if the cashier signing method is selected (optional function).

ALM : Illuminates with the alarm buzzer to indicate that the last operation or numeric entry was an error. To clear the error condition, depress the **[C]** key.

R OFF : Illuminates when the Receipt-OFF mode is declared by the **[LOG/RECEIPT]** key. In this condition, no receipts will be issued for a sale to be entered. To extinguish this lamp (i.e., to change into Receipt-ON mode for issuing receipts), simply depress the **[LOG/RECEIPT]** key again.

TL : Illuminates with the total amount displayed when a sale is finalized without any amount tendered.

ST : Illuminates with the subtotal amount displayed when the **[ST]** or **[TXBL TL]** key is depressed.

CG : When an amount tendering operation has been performed, this lamp illuminates with the amount of change due displayed.

9. Keyboard

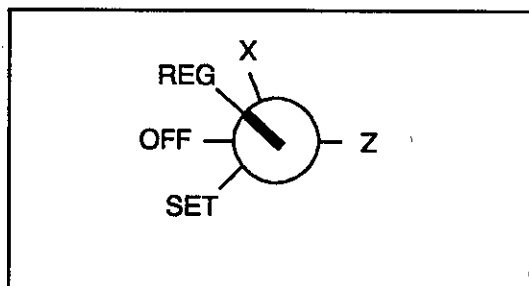
The following is the standard keyboard layout, which was initially set at the factory. This register is designed to be capable of programming most of the keys at desired locations or adding some optional keys in place of the current keys. If you are in need of changing the locations or adding keys, see Chapter "13. Optional Key Setting".

Standard Keyboard Layout

FEED	NS	VOID	ALL VOID	#/CID	LC OPEN	% +	% -
RTN MDSE	C		@/FOR	1	6	R/A	PO
TX/M	7	8	9	2	7	DOLL DISC	EX
PLU	4	5	6	3	8	Chg	CHK TND
AMT	1	2	3	4	9	ST	TXBL TL
ITEM CORR	0	00	.	5	10	AT/TL	

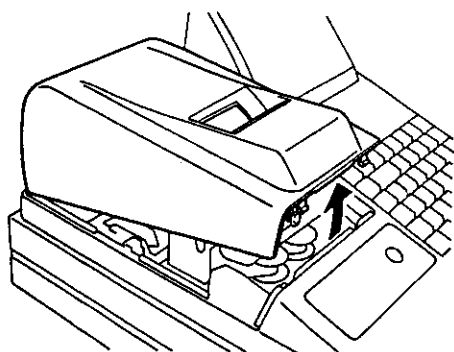
10. Installing the Paper Roll

The printer may be used for journal-format print (standard status) or receipt-format print (optional status). (Refer to *Chapter 17. System Option Setting, Address 2 - Bit 7.*)



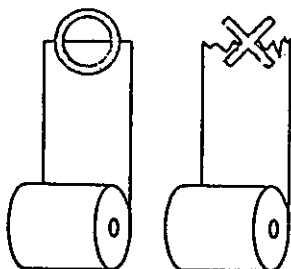
1

Turn the Control Lock to the **REG** position using a Control Key.



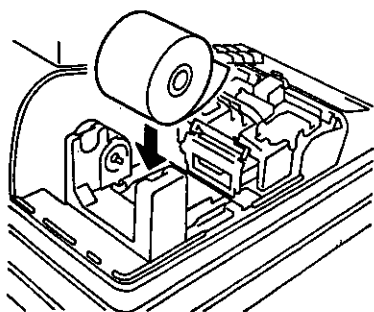
2

Remove the Printer Cover.



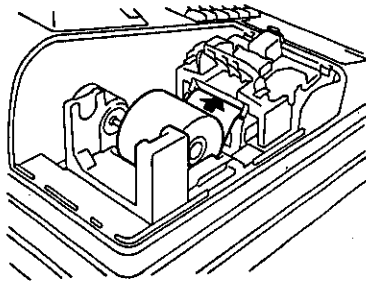
3

Cut the paper end to make it sharp.



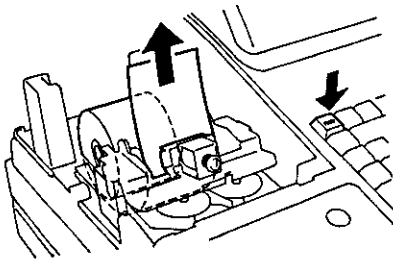
4

Place the paper roll into the paper pocket.



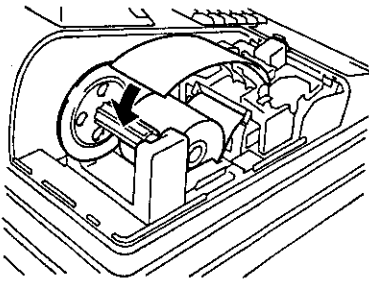
5

Insert the paper ends into the paper inlet located on the rear side of the printer.



6

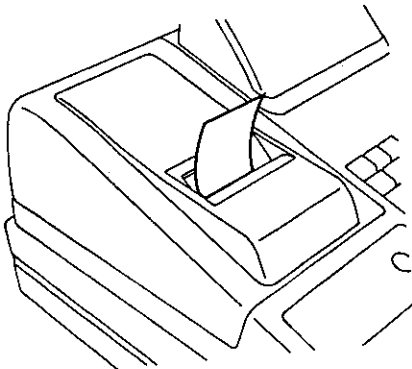
Press the [FEED] key on the keyboard until the paper end comes out of the outlet.



7

If used for journal, insert the paper end into the slit on the Take-up Reel and wind it around the reel two or three times, set the reel to the holder, and press the [FEED] key for a while to tense the paper.

If used for receipts, do not wind the paper end around the Journal Take-up Reel.



8

If used for journal, simply attach the Paper Cover. The Receipt Outlet is used as a Journal Window.

If used for receipts, attach the Paper Cover with the paper end coming out of the Receipt Outlet located on the Paper Cover.

* When the 2-ply paper is used, load the upper sheet as a receipt, and bottom sheet as a journal.

11. Setting the Time and Date

Setting the Time

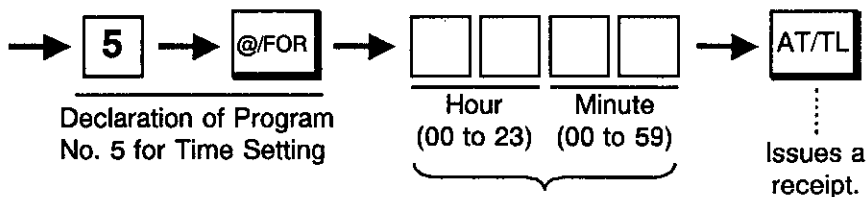
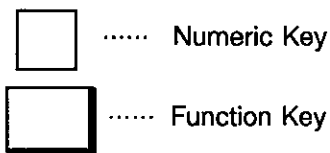
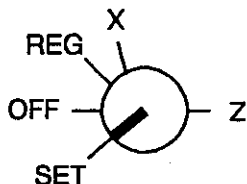
The register has a clock function. Once the time is set, the time is kept even when the power is turned off. The 24-hour system (the military time) is used for time setting, display, and printing. Time setting is allowed any time outside a sale.

Condition for Setting: Any time outside a sale.

Refer to the **NOTE on "Condition"** on page 20.

Setting Procedure

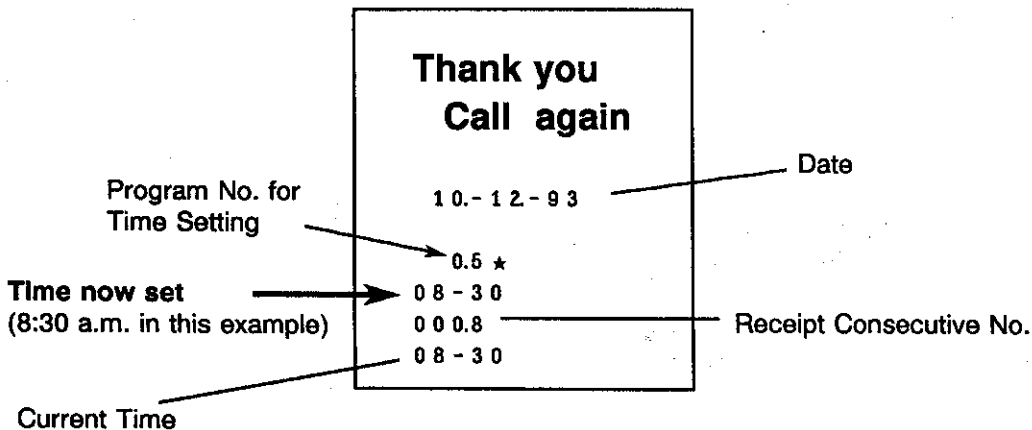
Use the **MA Key** to turn the Control Lock to "SET".



Examples) 1:05 a.m.: 1:32 p.m.:



Receipt Print Format



Setting the Date

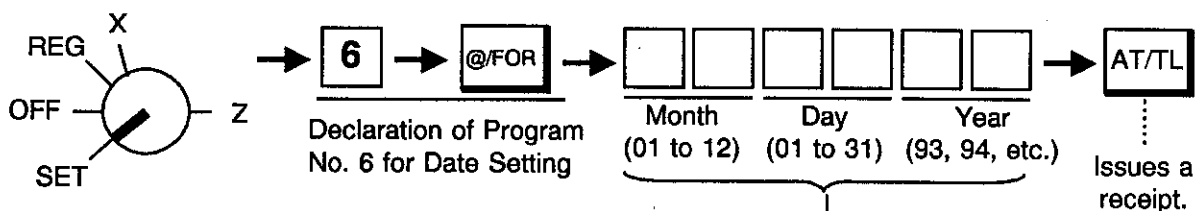
The register has a calendar function. Once the date and time are correctly set, the day automatically advances at midnight even when the power is turned off. The extra day of a leap year is also computed automatically.

Condition for Setting: Any time outside a sale.

Refer to the **NOTE** on "Condition" on page 20.

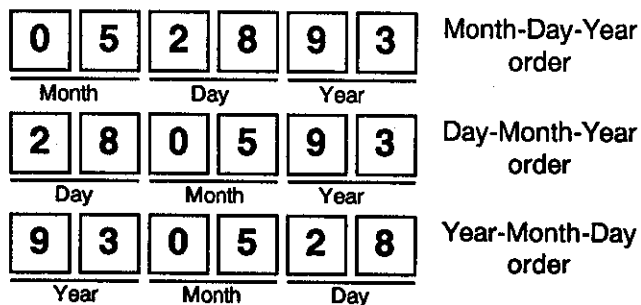
Setting Procedure

Use the **MA Key** to turn the Control Lock to "SET".

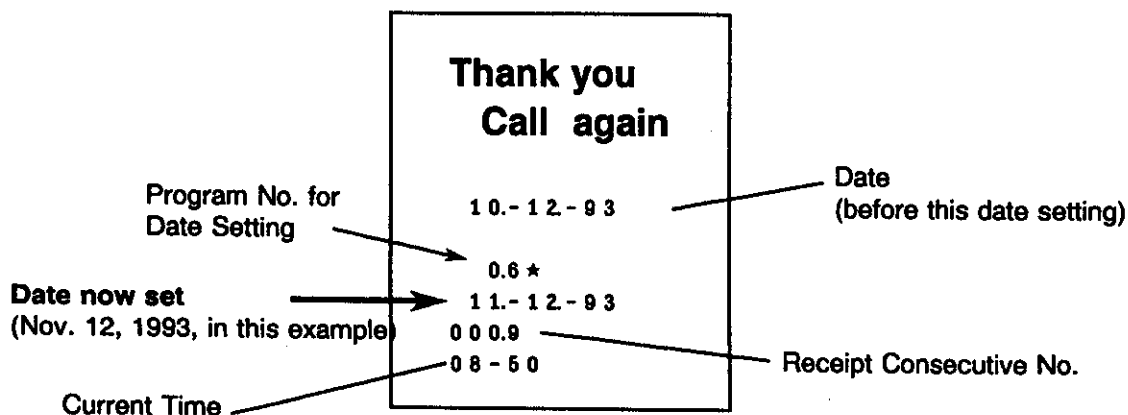


NOTE: The date set/print order is Month-Day-Year. If you want to change the order into Day-Month-Year or Year-Month-Day, select appropriate status of Bits 7 and 8 in Address 16 in Chapter "17. System Option Setting".

Examples) To set May 28, 1993:



Receipt Print Format



Displaying the Time

The current time is displayed in the "AMOUNT" area when the Control Lock is turned to **REG** from any other position. When the Control Lock position is changed or any entry operation starts, the displayed time disappears.

Time Display Format:
(Example: 1:45 p.m.)

13 - 45

Printing the Time and Date

The current time is printed on every receipt or on journal (for every transaction, read or reset report, or programming sequence), as the bottom line (*refer to the **Receipt Print Format on the preceding page***). The time can be programmed to non-print, if necessary, by a System Option selection (*refer to Chapter "17. System Option Setting", Address 1 - Bit 1*).

The date is printed on every receipt, as the top line below the Store Name Stamp print (*refer to the **Receipt Print Format on the preceding page***). However, when the Journal-format Option is selected, the date is printed as the last line only when a Read or Reset Report has been taken.

12. Tax Table Setting

For details about the actual tax table, contact to the location where the register was purchased.

Setting the U.S. Tax Tables (also applicable to PST in Canada)

There are three ways to set state and local tax tables. Select one that suits the tax table required to be set.

Condition for Setting: After Daily Financial Reset

NOTE on "Condition":

Unless the register satisfies this condition, the programming operations will not be allowed.

"After ... Reset" means that the designated reset report must be taken before entering the programming (setting) operation. An error will result if the operation is attempted without taking the report.

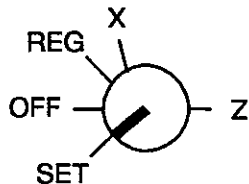
However, it does not necessarily mean "immediately after ..." When the designated reset report has already been taken and then some operations are performed in the "X", "Z", or "SET" mode, the condition "After ... Reset" is still satisfied and the programming operation is still allowed.

On the contrary, when the designated reset report has been taken but then some sales data relating to that report's output data are entered in the "REG" mode, the programming operation will no longer be allowed and the same reset report must be taken again.

Thus the condition "After ... Reset" indicates that all the sales data relating to the report data must be zero (except non-resettable memory data). Because of this "Condition" requirement, the report data will be protected from any inconsistencies of sales data entered in the period from a resetting of the report to another resetting of the same report next time. When no condition is specified to a programming (setting) operation, it means that the operation is allowed any time outside a sale but the cashier must be signed off.

Setting Procedure:

Use the **MA Key** to turn the Control Lock to **"SET"**.



Go to **1), 2), or 3)** on the following pages.

Indications of types of keys on the following pages:



..... Individual Numeric Key

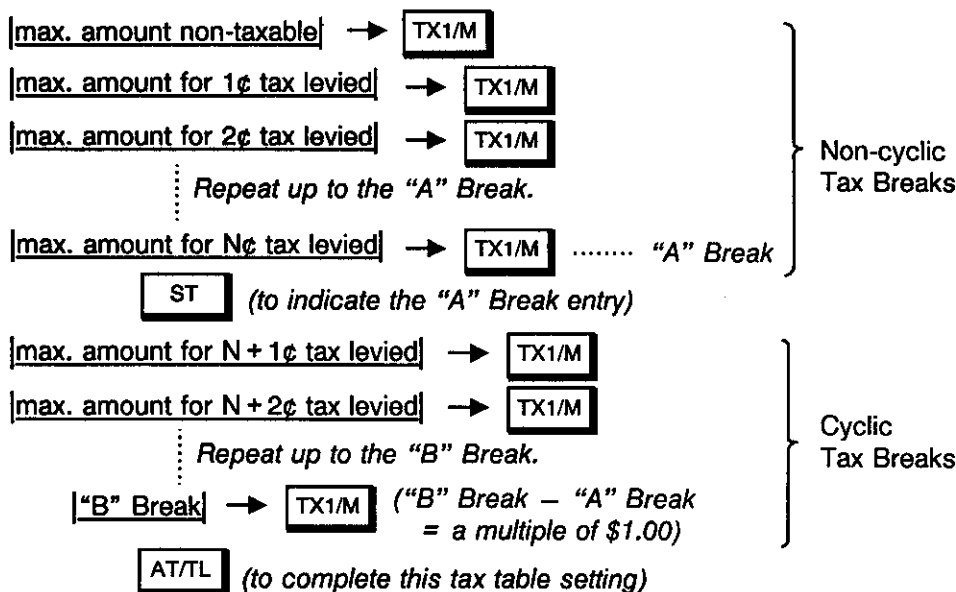


..... Data to be entered through Numeric Keys



..... Function Key

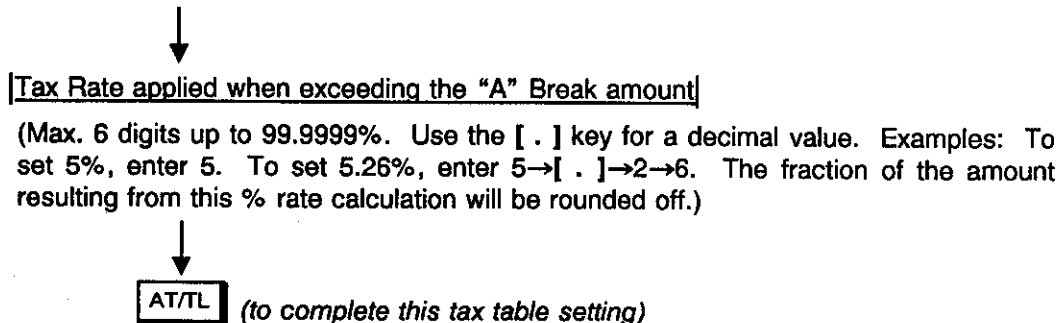
1) Tax 1; Full Breaks (Non-cyclic Breaks + Cyclic Breaks)



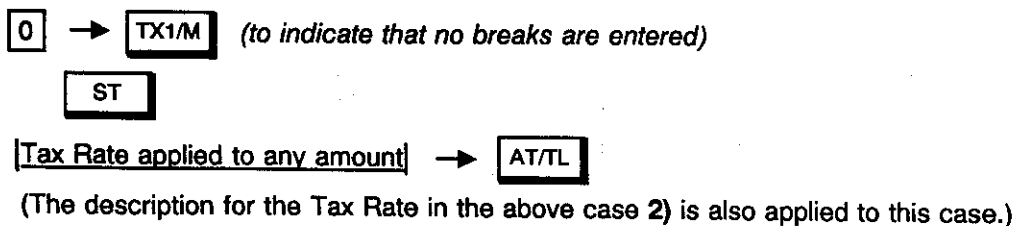
NOTE: Each amount (break) entry may be a maximum of 4-digit value (9999¢).

2) Tax 1; "A" Break and % Rate Combination (Non-cyclic Breaks + % Rate)

First, set all the non-cyclic breaks up to the "A" Break entry and the [ST] key depression shown in the above case of "1) Tax 1 Full Breaks".



3) Tax 1; % Rate Only



- NOTES**
1. In a single-tax area, the [TX1/M] key may be labeled as [TX/M] key.
 2. For Tax 2 table setting in a multi-tax area, follow the same procedure in 1), 2), or 3) above, using the [TX2/M] key instead of [TX1/M].
To install the [TX2/M] key on the keyboard, refer to Chapter "13. Optional Key Setting".
 3. If two tax tables are to be set, the Tax 1 table must be set first. The Tax 1 table setting will automatically reset the old Tax 1 and Tax 2 tables.
 4. A maximum of 64 breaks may be entered for Tax 1 and Tax 2 tables altogether.

Setting Examples:

ex. 1) Tax 1; Full Breaks

Tax Table		Key Operation	
Amount Range	Tax Levied	Control Lock: SET	
\$0.00 to \$0.10	0¢	1 0	TX1/M
\$0.11 to \$0.22	1¢	2 2	TX1/M
\$0.23 to \$0.39	2¢	3 9	TX1/M
\$0.40 to \$0.56	3¢	5 6	TX1/M
\$0.57 to \$0.73	4¢	7 3	TX1/M
\$0.74 to \$0.90	5¢	9 0	TX1/M
\$0.91 to \$1.08	6¢	1 0 8	TX1/M
... "A" Break		ST	
\$1.09 to \$1.24	7¢	1 2 4	TX1/M
\$1.25 to \$1.41	8¢	1 4 1	TX1/M
\$1.42 to \$1.58	9¢	1 5 8	TX1/M
\$1.59 to \$1.74	10¢	1 7 4	TX1/M
\$1.75 to \$1.91	11¢	1 9 1	TX1/M
\$1.92 to \$2.08	12¢	2 0 8	TX1/M
... "B" Break		AT/TL	

**Thank you
Call again**

11-12-93

0.0*

TX 1

00	*0.10	
01	*0.22	
02	*0.39	
03	*0.56	
04	*0.73	
05	*0.90	
06	*1.08	
	*1.08	ST
07	*1.24	
08	*1.41	
09	*1.58	
10	*1.74	
11	*1.91	
12	*2.08	
	*2.08	TL

00 1.6
08 - 5 4

ex. 2) Tax 1; "A" Break and % Rate Combination

Tax Table		Key Operation	
<u>Amount Range</u>	<u>Tax Levied</u>	Control Lock: SET	
\$0.00 to \$0.09	0¢	[9]	[TX1/M]
\$0.10 to \$0.29	1¢	[2] [9]	[TX1/M]
\$0.30 to \$0.59	2¢	[5] [9]	[TX1/M]
\$0.60 to \$0.84	3¢	[8] [4]	[TX1/M]
\$0.85 to \$1.12	4¢	[1] [1] [2]	[TX1/M]
... "A" Break		[ST]	
5% is applied to any amount exceeding the "A" Break.		[5]	[AT/TL]

**Thank you
Call again**

11-12-93

0.0*

TX 1

00 *0.09

01 *0.29

02 *0.59

03 *0.84

04 *1.12

*1.12 ST

5. %

001.7

08-54

ex. 3) Tax 1; % Rate Only

Tax Table	Key Operation
10% is applied to any amount.	Control Lock: SET
	[0] [TX1/M]
	[ST]
	[1] [0] [AT/TL]

**Thank you
Call again**

11-12-93

0.0*

TX 1

00 *0.00

*0.00 ST

10. %

001.8

08-54

Setting the GST Rate (applicable to Canada only)

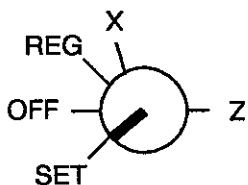
Please note the following before operating the GST rate setting. The following preparations are required:

- 1) Select the "GST Active" status in Chapter "17. System Option Setting", Address 14 - Bit 1 (some other options can also be selected relating to GST in the same Address).
- 2) Install the [GST/M] (GST Modifier) key on the keyboard (in place of unnecessary key) referring to Chapter "13. Optional Key Setting".

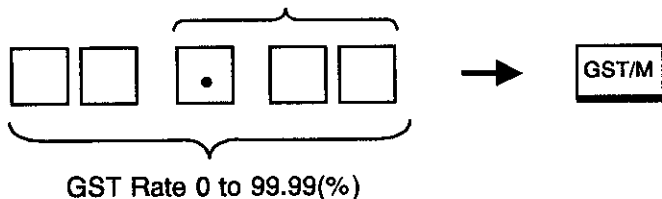
Condition for Setting: After Daily Financial Reset
(refer to "NOTE on Condition" on page 20.)

Setting Procedure:

Use the MA Key to turn the Control Lock to "SET".



This portion is required only when any decimal portion is contained in the rate.



Examples)

7% 7

12% 1 2

8.55% 8 . 5 5

To reset the rate once set: 0

GST Rate 7% is set.

**Thank you
Call again**

11-12-93

0.0

001.5 *7. T

08-54

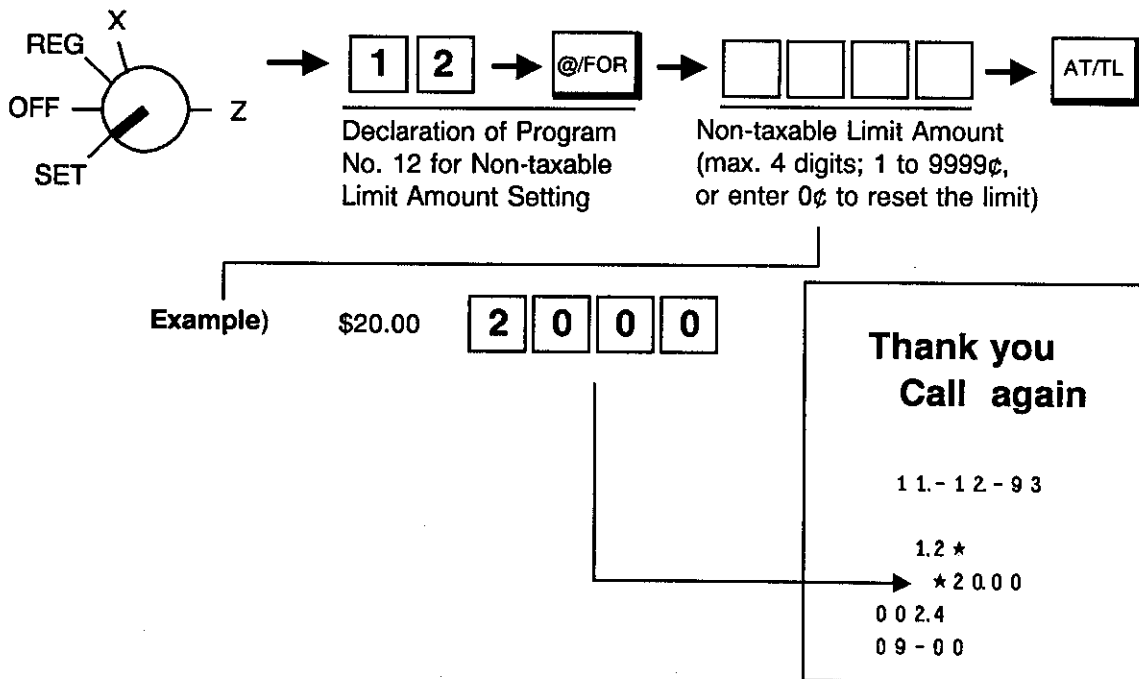
Setting the Non-taxable Limit Amount (applicable to only certain areas in Canada)

This non-taxable amount limit must be set only in certain areas in Canada.

Condition for Setting: After Daily Financial Reset
(refer to "NOTE on Condition" on page 20.)

Setting Procedure:

Use the **MA** Key to turn the Control Lock to "SET".



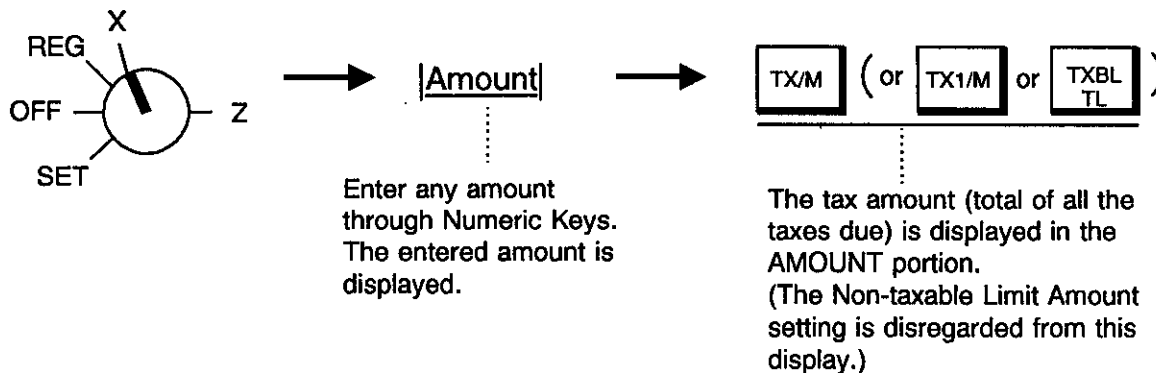
- NOTES**
1. When the sum of the sale portion subject to Tax (PST) 1 and the sale portion subject to Tax (PST) 2 exceeds the Non-taxable Limit Amount programmed here, all the amount subject to either of the two taxes are all taxed. When the sum is less than the programmed limit, Tax 1 is tax-exempted and only Tax 2 is calculated on the sale portion subject to Tax 2.
 2. When the sum of the sale portion subject to Tax (PST) 1 and the sale portion subject to Tax (PST) 2 is negative, the portion subject to Tax 1 will not be taxed.
 3. When the sale portion subject to Tax 1 is tax-exempted, the taxable amount is not stored in Tax 1 memory.
 4. An error results when the **[GST/M]** key is depressed in sale entries on the ECR with Non-taxable Limit Amount programmed.

Tax Calculation Test

Tax calculation can be tested by the following procedure. This operation will not affect any sales data.

Operating Procedure:

Use the **MA Key** to turn the Control Lock to "X".






13. Optional Key Setting

This chapter introduces optional keys (keys not installed on the current Standard Keyboard) that can be programmed. Please note, however, that adding an optional key means to sacrifice another key already installed. If you plan to install any of the Optional Keys or change locations of any of the current keys, this operation must be performed first before any other programming or setting operation (refer to NOTE 9 at the end of this chapter).

List of Keys

The following is the list of the all the keys that can be programmed on the keyboard. Numeric Keys 0 to 9 are fixed as to their locations, therefore, not included in the list. The "Key Code" assigned to each key in the list is used in the setting procedure next page. For detail functions and operations of each key, refer to Chapter "15. Setting Preparation of Each Key and Transaction Entries". For a brief information of the Optional Keys, refer to NOTE 8 at the end of this chapter.

-  Keys that must be installed as minimum requirement
 Keys that are already installed on the Standard Keyboard
 Optional Keys

(All those keys, not only the Optional Keys, can be eliminated or changed as to their locations on the keyboard. However, please do not eliminate the keys of minimum requirements.)

Key Code	Key Name	Key Code	Key Name
0	Code to deactivate the key.	84	PO (Paid Out)
*1 1 to 10	Department Keys 1 to 10	85	NS (No-sale) *2
11 to 15	Department Keys 11 to 15	87	LC OPEN (Listing Capacity Open)
61	FEED (Paper Feed)	90	#/CID (Non-add Number Print/Cash-in-drawer) *2
63	00 (Double-zero)	91	#/NS (Non-add Number/No-sale) *2
65	• (Decimal Point)	92	PLU (Price-Look-Up)
69	DOLL DISC (Dollar Discount)	93	@/FOR (At/For; Multiplication)
70	% + (Percent Charge)	94	RECEIPT ISSUE (Post-receipt)
71	% - (Percent Discount)	95	C (Clear)
72	RTN MDSE (Returned Merchandise)	97	TX/M or TX1/M (Tax 1 Modifier)
73	ITEM CORR (Item Correct)	98	TX2/M (Tax 2 Modifier)
74	VOID (Void)	99	TXBL TL (Taxable Total)
75	ALL VOID (All Void)	100	TAX (Manual Tax)
76	AT/TL (Cash Tender/Total)	101	EX (Tax Exempt)
77	CHK TND (Check Tender)	105	AMT (Amount)
78	Chg (Charge Total)	115	GST/M (GST Modifier)
82	ST (Subtotal)	127	LOG/RECEIPT (Log/Receipt) *3
83	R/A (Received-on-Account)		

*1. At least one Department Key is required to be installed.

*2. The [#/NS] key has both [#/CID] and [NS] functions. Therefore, when [#/NS] is installed, neither [#/CID] nor [NS] are necessary. (At least, either [#/CID] or [#/NS] must be installed.)

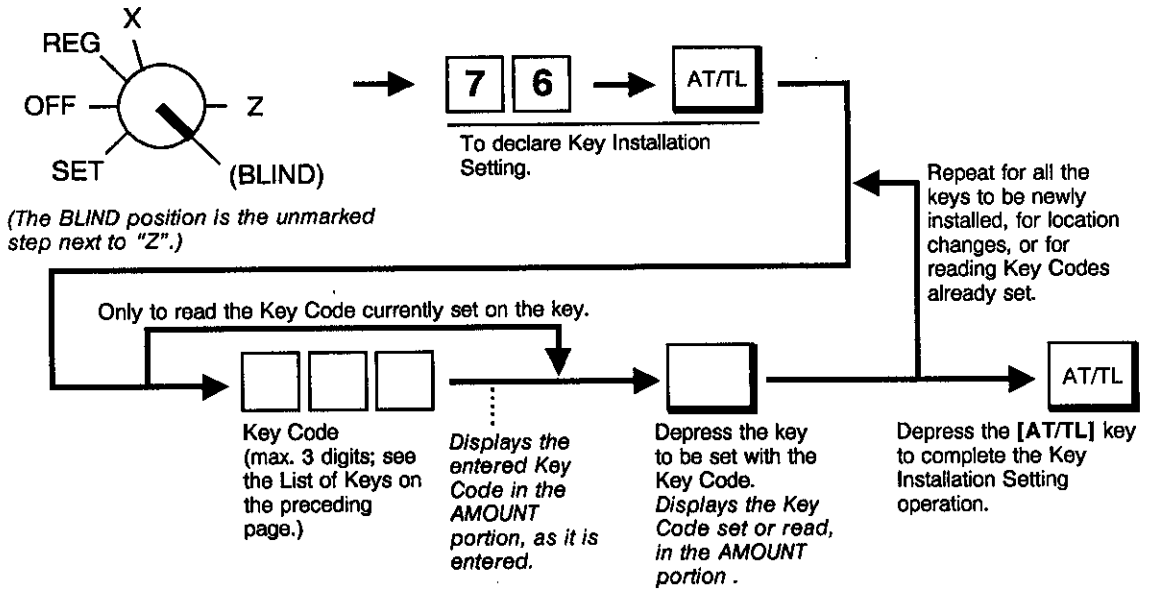
- *3. When the Signing Method is selected for cashier identification (refer to **Chapter 18**), this key must be installed. If this optional function is not selected, this key merely functions as receipt issue/non-issue key.

Key Installation Setting

Condition for Setting: After all Daily and Periodical Resets (refer to **"NOTE on Condition"** on page 20.)

Setting Procedure:

Use the **S Key** to turn the Control Lock to the **"BLIND"** position.



Blank Keyboard Sketch (for your planning aid)

Fill in:

Key Name →
Key Code →

(Refer to the **"List of Keys"** on the preceding page)

For the Standard Keyboard Layout, refer to Chapter **"9. Keyboard"**.

()	()	()	()	()	()	()	()
()	()	()	()	()	()	()	()
()	7	8	9	()	()	()	()
()	4	5	6	()	()	()	()
()	1	2	3	()	()	()	()
()	0	()	()	()	()	AT/TL	()

NOTES 1. If Key Installation Setting is operated for the first time, all the keys are already set as in the Standard keyboard Layout. Therefore, set only the keys that are to be changed as to their locations or newly installed.

2. If a wrong code has been entered and the key has also been depressed (i.e., a wrong code has been set on a key), enter the correct code and depress the key. The code entered last will be effective.
3. If "0" is entered as Key Code, the key will be dead and its memory will also be closed.
4. Each of the keys programmed in this operation will have its memory (if any) opened automatically.
5. The [C] key, if once set with Key Code 95, may be used to clear an error, but it cannot be used immediately after a Key Code entry (for the purpose of clearing the wrong Key Code error). If any Key Code is entered and then the [C] key is depressed, that Key Code will be set on the key that was once the [C] key.
6. On depressing the final [AT/TL] key, "0.00" is displayed in the AMOUNT portion, indicating that the setting operation is completed. No printing occurs.
7. Use the Blank Keyboard Layout on the preceding page, if necessary, for your own keyboard plan before starting the setting procedure.

8. **Brief Information on Optional Keys:**

Department Keys 11 to 15

Install additional Department Keys if the current Department Keys (1 to 10) are not enough to classify the merchandise in your store.

[/NS] (Non-add Number / No-sale Key)

This is a dual-function key, having both [#/CID] and [NS] functions.

[RECEIPT ISSUE] (Post-issue Receipt Key)

When a sale is finalized with the "R OFF" lamp illuminated but receipt is required, this key works. This function is effective only when the Receipt-format Option has been selected.

[TX2/M] (Tax 2 Modifier Key)

It is necessary in the dual-tax (PST) area, in addition to [TX1/M], for reversing the Tax 2 taxable/non-taxable status of items.

[TAX] (Manual Tax Key) ... Key Code 100

It is used to enter an irregular tax amount that cannot be calculated on the basis of the programmed tax tables, and to add it to the sale total. For installing this key, please note the following in entering Key Code 100:

Right:

1	0	0
---	---	---

 →

Key

 The last key is correctly set with Key Code 100 ([TAX])

Wrong:

1	00
---	----

 →

Key

 The

00

 key is newly set with Key Code 1, which is Department 1 Key. The last key is not set with any Key Code.

[GST/M]

It is necessary in the GST-applicable area in Canada. It reverses the GST taxable/non-taxable status of items.

[LOG/RECEIPT]

It functions as the Cashier Signing key (refer to Chapter 18), and also functions as Receipt OFF key (refer to "Receipt-issue/Non-issue Selection" in Chapter 15).

9. If any of the following keys are newly installed or its location is changed, its relevant programming operations are further required (even if once programmed, re-programming is necessary because the program data has been cleared):

Each Department Key ... Department Status, LC (if required), Preset Prices (if required) of the Department

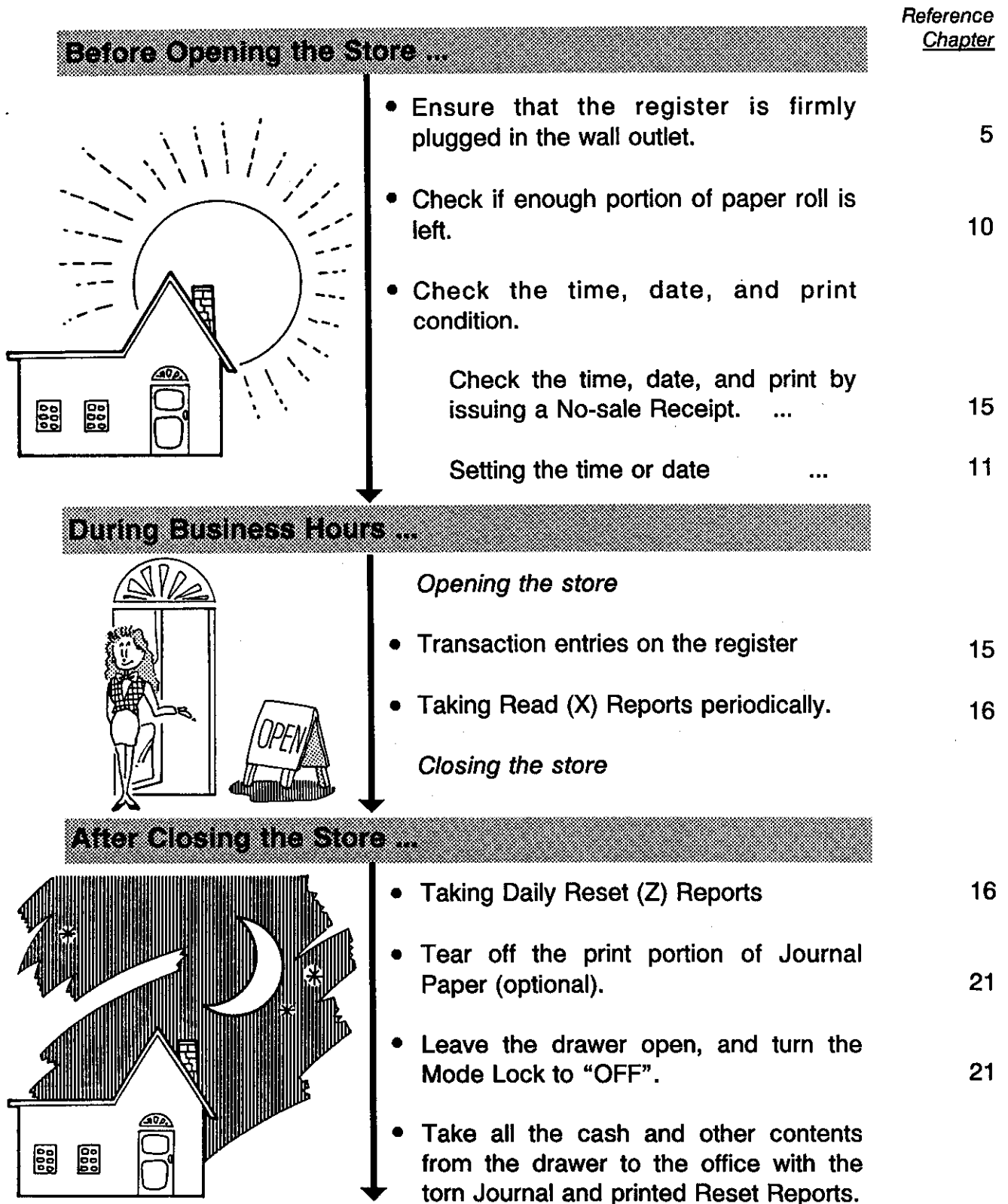
[PLU] ... PLU Table

[TX(1)/M], [TX2/M], [GST/M] ... Respective Tax Tables or Rates (Tax 1, Tax 2, GST)

[% +], [% -] ... Respective Preset % Rates (if required)

14. Daily Operation Flow

The following shows a typical daily operation flow on the register.



15. Setting Preparation of Each Key and Transaction Entries

This chapter describes individual key operations on transaction entries, and setting requirements for the key if necessary. (The samples for the operation and setting are described in the receipt formats.)

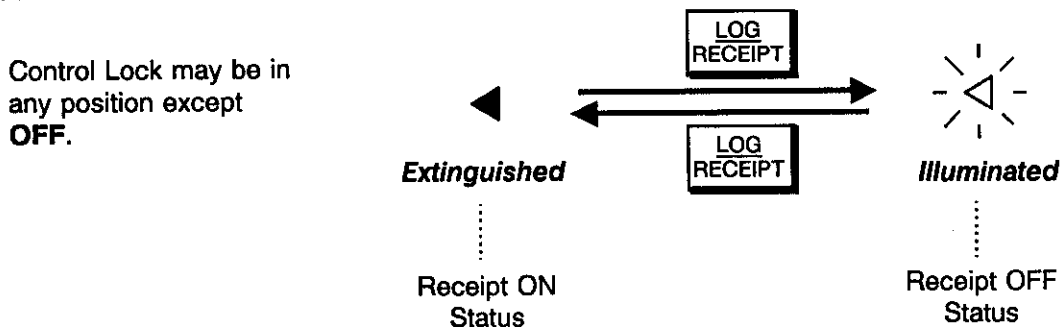
Receipt-issue/Non-issue Selection



(LOG/RECEIPT Key)

Receipts are issued or not issued according to the "R OFF" triangular lamp illuminated/extinguished status on the Operator Display panel.

"R OFF" (Receipt OFF) Lamp Status Change Operations



- NOTES 1.** The Control Lock may be in any position (except OFF position) for changing the Receipt ON/OFF status in the signed-ON or signed-OFF condition.
2. The "R OFF" lamp status at the starting of a transaction entry decides whether a receipt will be issued for the transaction or not. Switching the Receipt ON/OFF status during a transaction will not be effective.
 3. If a transaction entered with the "R OFF" lamp extinguished and finalized but a receipt is required, the [RECEIPT ISSUE] (Post-issue Receipt) key can be operated to issue a receipt (see "Post-issue Receipt" on page 68).
 4. Simply depress the [LOG/RECEIPT] key without a numeric entry. If the key is depressed with a prior numeric entry in REG mode, it may turn out to be a Sign ON or Sign OFF operation (refer to Chapter 18).
 5. This operation is effective only when the Receipt-format Option has been selected. When the Journal-format Option has been selected, journal printing will occur regardless of any "R OFF" lamp status.

Clearing Errors, or Clearing Wrong Declaration Key or Wrong Numeric Entries



When in sale entries an error has occurred with an alarm buzzer (beeps for about 2 seconds only), a wrong Declaration Key (such as [RTN MDSE], [TX/M], etc.) has been depressed, or a wrong numeric data has been entered; depress the [C] key.

1) Error has occurred (the alarm buzzer is generated and the "ALM" lamp illuminates), and the keyboard is locked.



The error condition is cleared (the buzzer tone stops and the "ALM" lamp is extinguished). Find the cause of the error, and do the operation again. Refer to "Possible Cause of Error" attached where an error may occur in each operation sequence on the following procedure.

2) Declaration Key has been depressed.



3) Numeric Keys are entered.



4) Declaration Key(s) + Numeric Keys



5) Numeric Keys + Non-motorized Key (key that does not trigger printing)



6) Combination of 2) to 5)



The entered data are all cleared at once.

7) Combination of 6) + 1)



The entered data are all cleared at once, and the error condition is cleared also. Refer to 1) for finding the cause of error.

NOTE When data is already entered and printed (through a Department Key, etc.), it cannot be cleared by the [C] key any longer. In need of deleting such data, see the following:

Item Correction (Last Line Voiding)



page 52

Void (Designated Line Voiding)



page 54

All Void (Transaction Cancel)



page 55

Department Keys Dept. 1 to Dept. 15

Programming Department Keys

These are department keys through which sales items are registered. A maximum of 15 keys may be installed (Depts 11 to 15 are optional keys).

Programming Department Status:

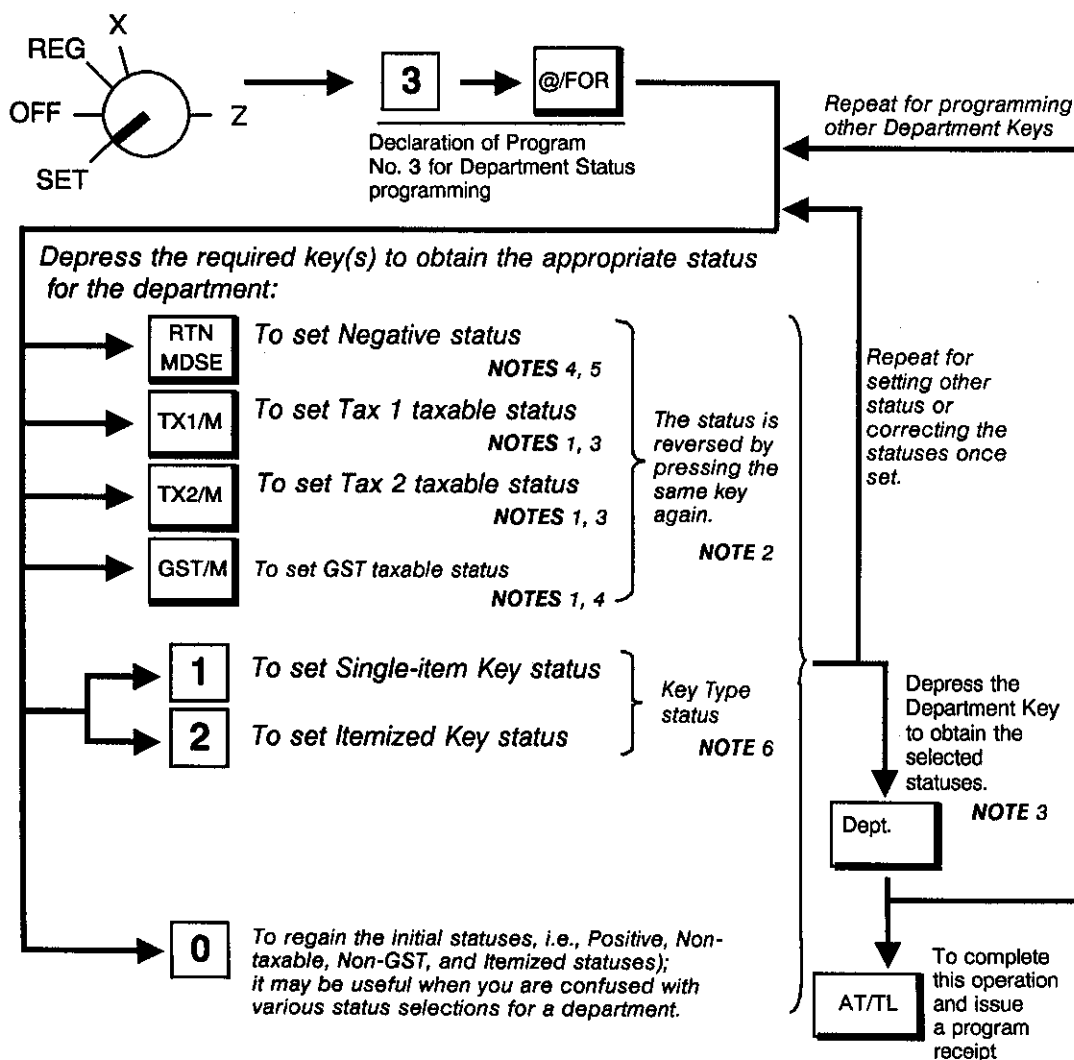
To use Department Keys, first program how each Department Key is to be used, in accordance with merchandise categories, taxation, operativity of the key, etc.

Condition: After Daily Financial Reset and Periodical Financial Reset (and ALL PLU Reset if the positive/negative status is to be set)
(refer to "NOTE on Condition" on page 20)

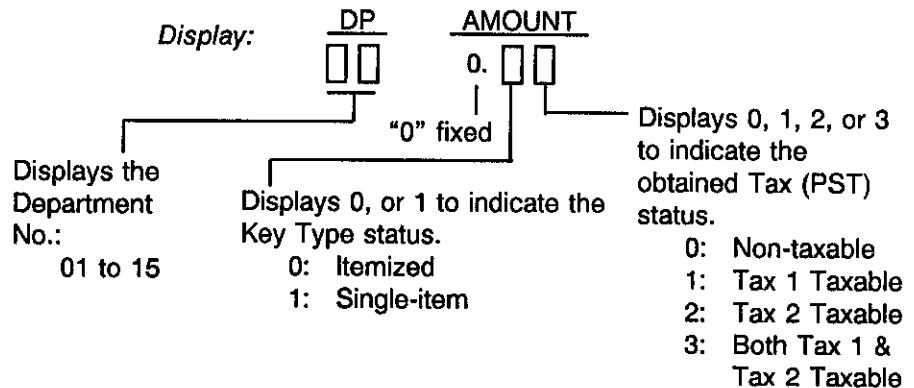
Programming Procedure:

Use the **MA Key** to turn the Control Lock to "SET".

As for items marked with "NOTE", refer to the corresponding NOTE No. on the next page for further description.



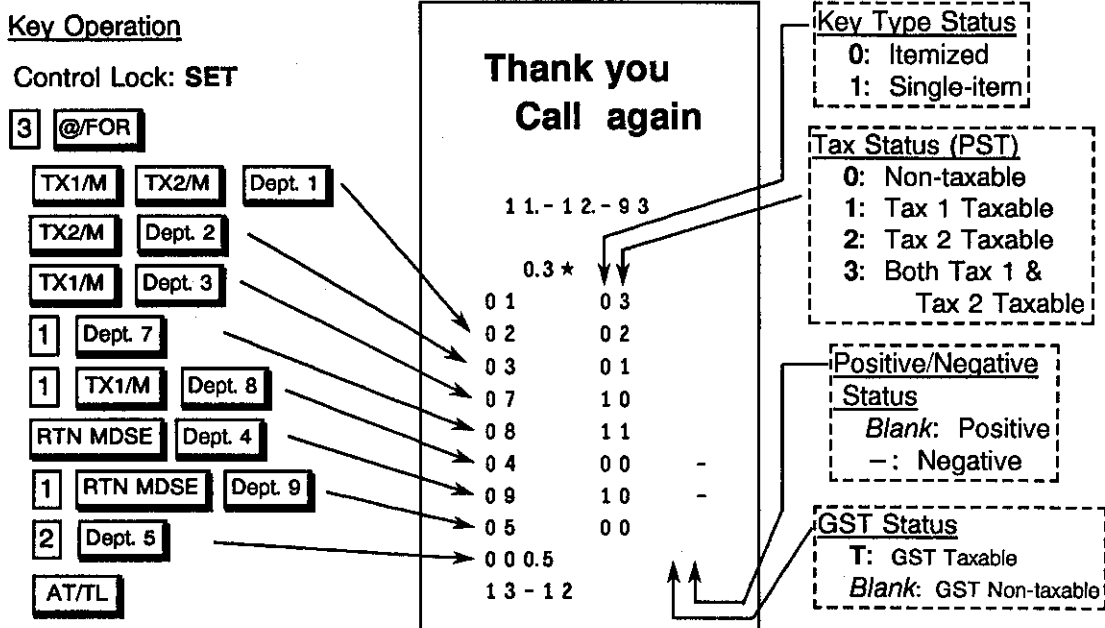
- NOTES 1.** The tax tables of "Tax 1", "Tax 2," and "GST" should be programmed in Chapter "12. Tax Table Setting". Those tax tables will become effective in REG mode for adding the taxes to sale items entered through a Department Keys only when the Department Key is programmed with taxable status for the required tax in this operation.
2. Every time each of the [RTN MDSE], [TX1/M], [TX2/M], and [GST/M] keys in this operation is pressed, the preset status is reversed. For example, if a Department Key is already set with "Tax 1 Taxable" status and the [TX1/M] key is pressed during the setting sequence of that Department Key, it is now set with "Tax 1 Non-taxable" status. If [TX1/M] is again pressed, "Tax 1 Taxable" status is again obtained.
3. The tax (PST) status obtained (as the result of [TX1/M] and/or [TX2/M] depressions) can be verified by reading the numeric value displayed in the rightmost digit of the AMOUNT portion when the individual Department Key is pressed. Similarly, the Key Type status is displayed in the 2nd digit (next to the rightmost digit).



(These status codes are also printed on the program receipt issued when the final [AT/TL] key is pressed; refer to the Receipt Format on next page.)

4. The Negative/Positive status and GST status can only be verified on the program receipt (refer to next page) but not in the display. If a wrong status has been set, correct it by performing the programming operation again.
5. If a Department Key is set with Negative status, an amount entered through that key will be subtracted from the sale total. It may be used for item entries of coupons, returned bottles, etc.
6. **Key Type Description**
- Itemized Key:** When a sale item amount is entered through this key, the sale is not finalized until a media key (such as [AT/TL]) is operated. Other items can be entered within one sale receipt sequence.
- Single-item Key:** A sale item entry through this key will automatically finalize the sale as cash outside a sale (i.e. when no other items have been entered within one receipt sequence). However, it will function just as an Itemized Key if operated inside a sale.

Department Status Program Receipt Format:



Programming Department LCs (Listing Capacities):

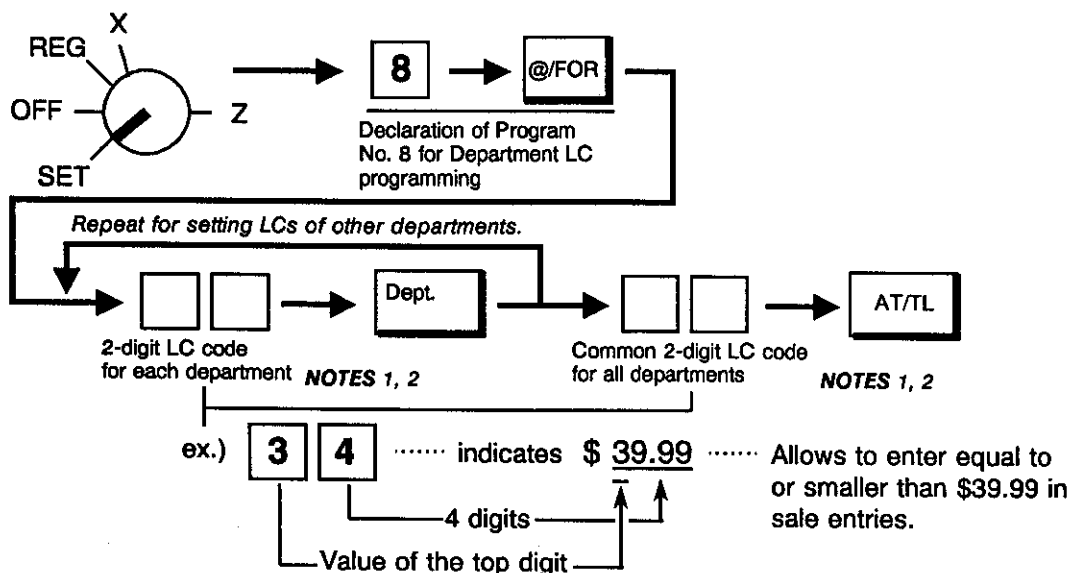
The LC setting is used to check an amount limit error. By setting the LC, an amount entry (due perhaps to a mistake by the operator) will be prevented at the earliest stage (i.e. an error will result on entering an excessive amount through the department key).

Condition: After Daily Financial Reset
(refer to "NOTE on Condition" on page 20)

Programming Procedure:

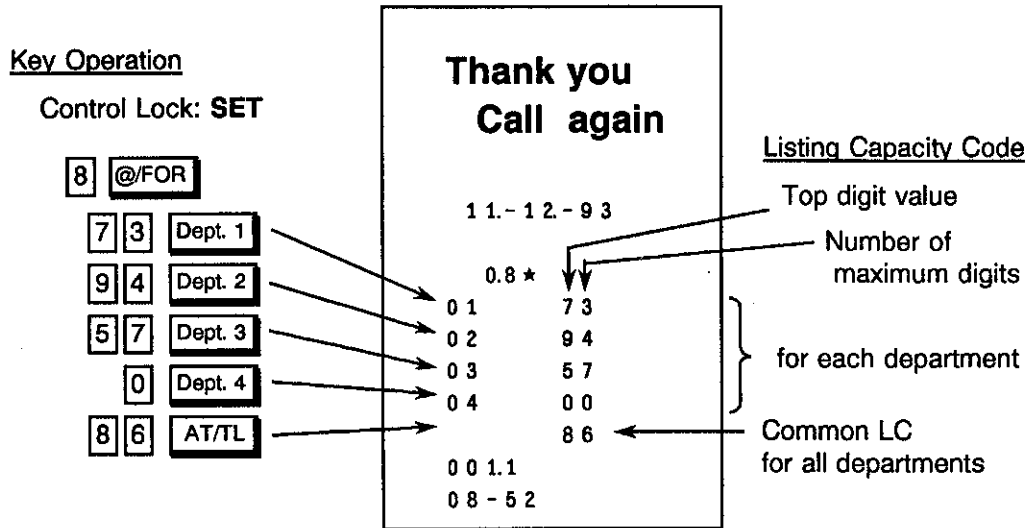
Use the **MA Key** to turn the Control Lock to "SET".

As for items marked with "NOTE", refer to the corresponding NOTE No. on the next page for further description.



- NOTES 1.** If the individual LC of a department is set, it prevails over the common LC for all departments.
2. To reset a LC once set, enter "0" in place of the 2-digit LC code. Then a maximum of 7-digit amount can be entered in sale entries.

Department LC Program Receipt Format:



Setting Department Preset Prices:

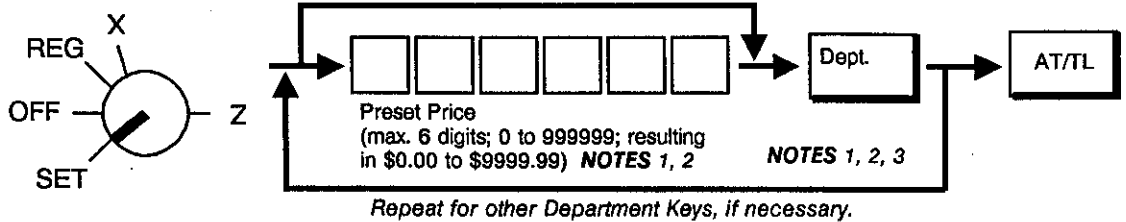
If a fixed price is always entered through a Department Key in sale entries, a preset price can be set on the Department Key. Please note that once set with a preset price, the Department Key will not accept any other price (open price) until the Department Key is again programmed to be an open department.

Condition: Any time outside a sale

Programming Procedure:

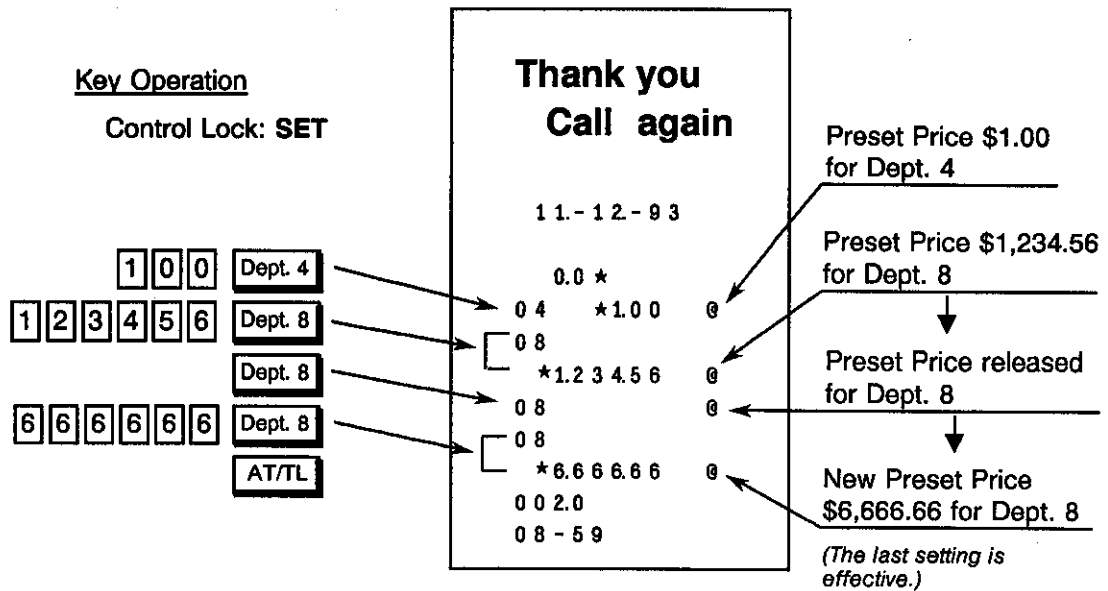
Use the **MA Key** to turn the Control Lock to "SET".

NOTES 1, 2
To set Open Department (to allow manual amount entries)



- NOTES 1.** All the Department Keys are open departments (no preset price set) as initial status.
2. If a Department Key is pressed with no Preset Price entry, the Key is set as an open-price Department Key.
3. If "0" is entered as Preset Price, the Department Key is set with Preset Price of \$0.00.

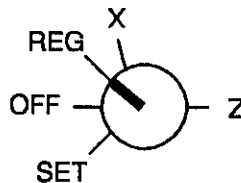
Department Preset Price Setting Receipt Format:



Sale Item Entries Using Department Keys

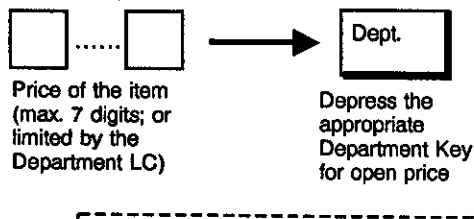
Various types of department entries are shown below.

Use the **REG** Key to turn the Control Lock to "REG".



Entry of One Item:

Open-price Department

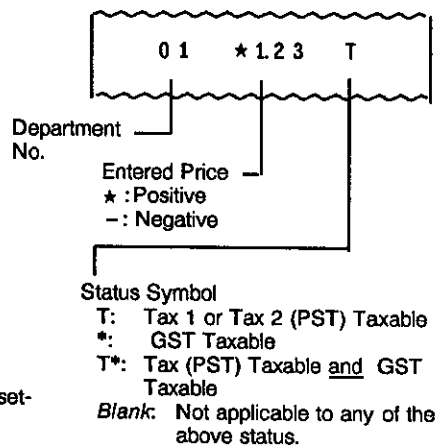


If an error occurs here:

Possible cause of error:

- The price entered exceeds the LC.
→ See the **Listing Capacity Open Entry**.
- The Department Key is a preset-price key.
→ Use an open-price Department Key, or see the "Preset-price Department" entry procedure on next page.

Receipt Print Format



Preset-price Department

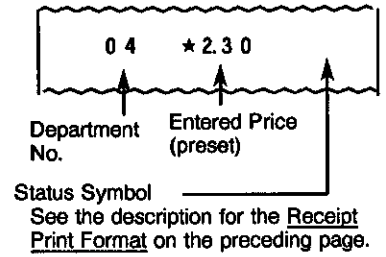
Dept.
 Depress the appropriate Department Key for preset price

If an error occurs here:

Possible cause of error:

- The Department Key is an open-price key.
 → Use a preset-price Department Key, or see the "Open-price Department" entry on the preceding page.

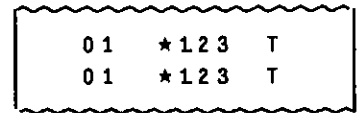
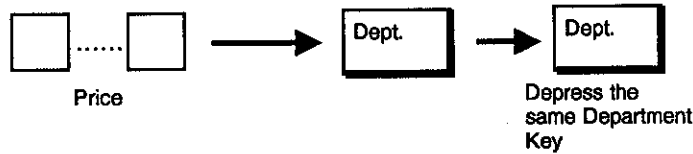
Receipt Print Format



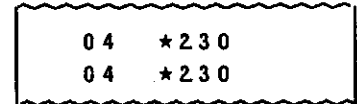
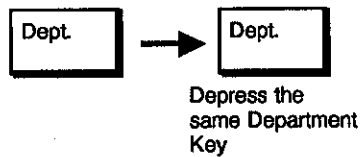
Department Repeat Entry:

Depress again the Department Key used for the department item entry just entered. The item entry is repeated as many times as the Department Key is depressed. (A negative Department entry cannot be repeated.)

Open-price Department Repeat

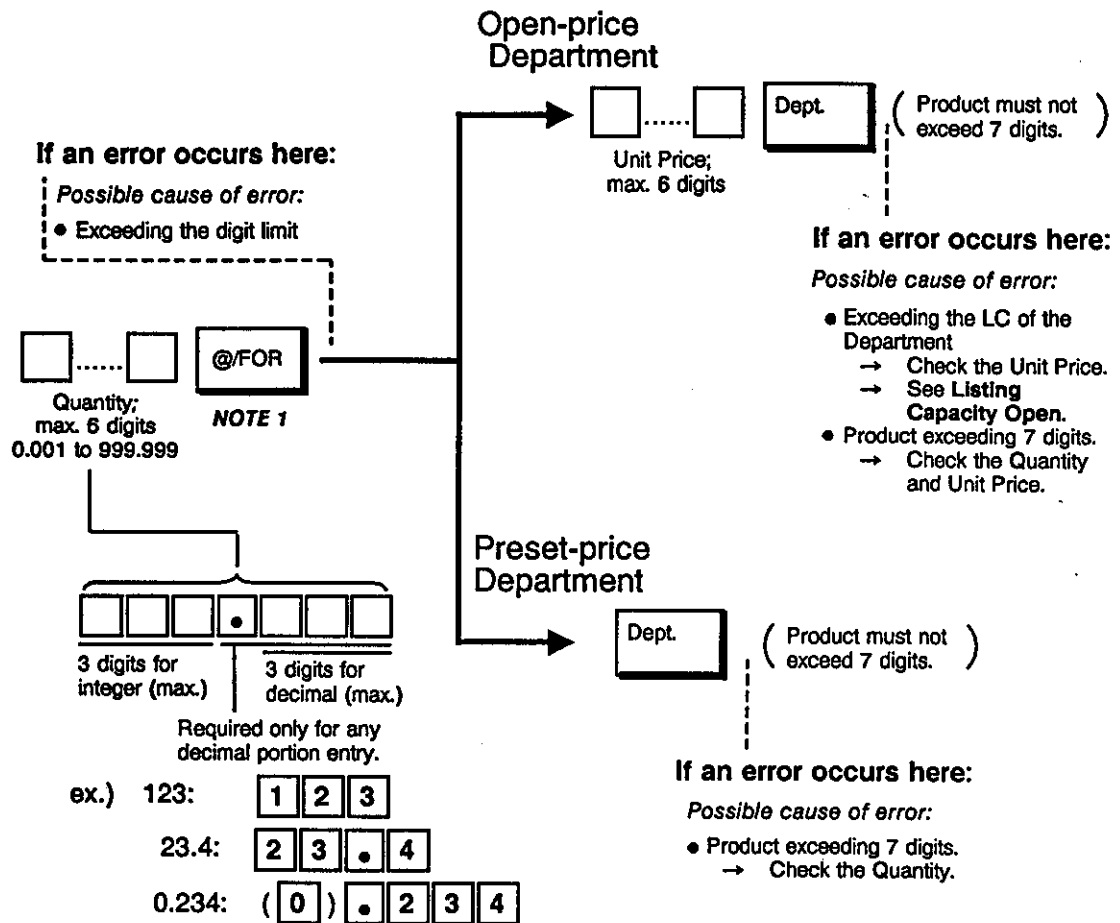


Preset-price Department Repeat



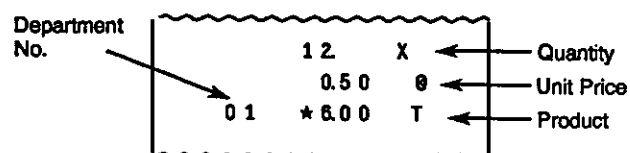
Department Quantity Extension (Multiplication):

When more than three or four items are to be entered with the same Department and price, the Quantity Extension (multiplication) is quicker than the Repeat Entry.



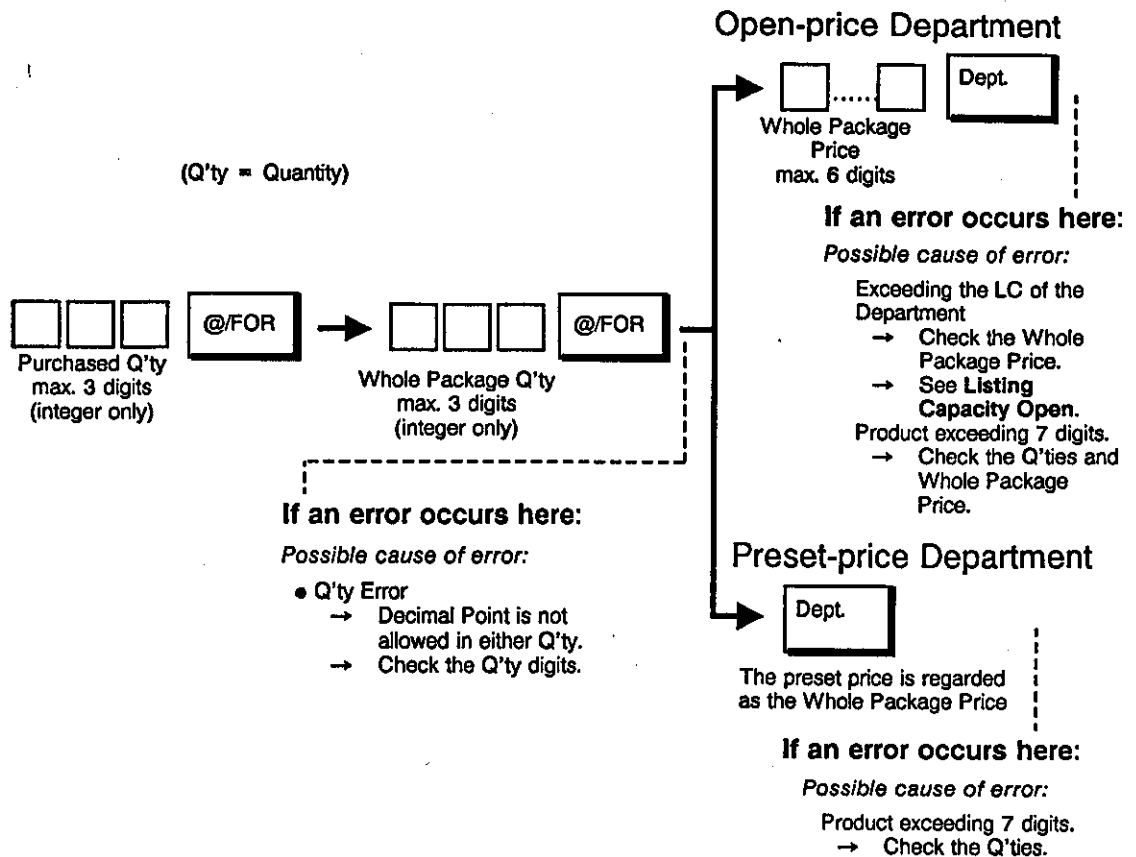
- NOTES 1.** When the Quantity is a 1-digit integer (1 to 9) and a Preset-price Department key is to follow, the [X] key is omissible.
- The product obtained by Quantity Extension cannot be repeated.
 - The decimal portion of the Quantity entry is processed down to the 2 digits below the decimal point. The fraction rounding at this time is fixed to ROUND OFF.
 - You can select the rounding process of the fractions of the product (result of multiplication) -- ROUND OFF (initial setting), ROUND UP, or ROUND DOWN. (Refer to Chapter "17. System Option Setting" Address 2 - Bits 1 and 2.

Receipt Print Format for Department Quantity Extension



Department SPP (Split-Package-Pricing):

This operation is used when a customer purchases only part but not all of the items in a package (example: only two tomatoes in a priced package of three tomatoes).



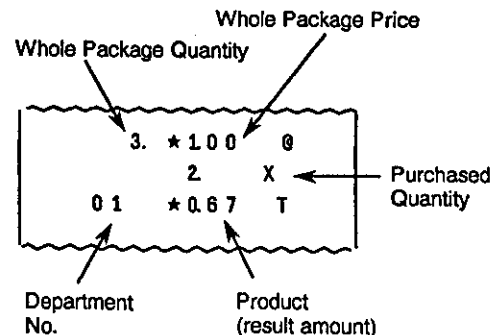
- NOTES 1.** The product (final result amount) obtained by SPP (Split-Package-Pricing) cannot be repeated.
- 2.** The product must not exceed 7 digits.
- 3.** The rounding process of the fractions of the product resulted from the calculation is fixed to ROUND UP (the final result amount is rounded up).
- 4.** SPP is not possible using PLUs.

Receipt Print Format for Department SPP

Example)

Purchased Quantity = 2
 Whole Package Quantity = 3
 Whole Package Price = \$1.00
 Entered through Dept. 1 (open-price, Taxable department)

2 @/FOR 3 @/FOR 1 0 0 Dept. 1



Single-Item Department Entry:

If a Department Key is programmed with Single-item status, an entry through the key immediately finalizes the sale as cash and issues a receipt without operating a media key.

Such keys are operated in the same way as ordinary (itemized) Department Keys already described, except that Repeat Entry is not possible using Single-item Department Keys.

NOTES 1. A sale item entry through this key will automatically finalize the sale as cash outside a sale (i.e. when no other items have been entered within one receipt sequence). However, it will function just as an Itemized Key if operated inside a sale.

2. Quantity Extension and SPP are also possible using Single-item Department Keys.

Receipt Print Format for Single-item Department Entries

Example 1) -- Entry outside a sale --
 When no sale is under way, an item of \$10.00 is entered through Dept. 7 which is a Single-item & Non-taxable department. The sale is automatically finalized as cash and a receipt is issued.

1 0 0 0 Dept. 7

```

    Thank you
    Call again

    11.-12.-93

    07 *10.00
      *10.00 CA
    010.5
    09-12
    
```

Receipt Consecutive No.

Current Time

Store Name Stamp space

Date

Automatically finalized as cash sale (Cash Total)

Example 2) -- Entry inside a sale --
 An item of \$5.00 is first entered through Dept. 1 which is an Itemized & Taxable department. Then an item of \$10.00 is entered through Dept. 7 which is a Single-item & Non-taxable department. The sale is not finalized until a media key is operated.

5 0 0 Dept. 1
 1 0 0 0 Dept. 7

```

    Thank you
    Call again

    11.-12.-93

    01 *5.00 T
    07 *10.00
    
```

The sale is not finalized until a media key is operated.

PLU (Price-Look-Up)

PLU

(PLU Key)

A "PLU" is an individual merchandise item programmed with its own item code (PLU Code), its link department (and mostly with a Preset Price). By programming PLUs, you can enter an individual item by entering its PLU Code (which should be written on the price tag of the item), instead of entering the price through a Department Key. By taking PLUs Reports, you can analyze the sales data of each individual item. A maximum of 200 PLUs can be programmed.

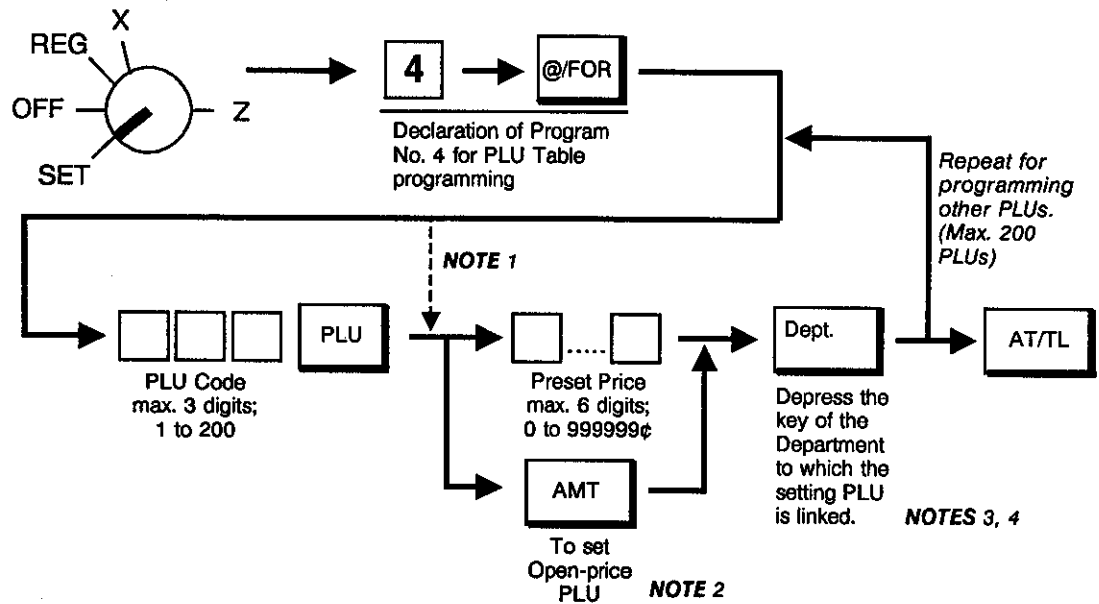
Programming PLUs**Programming PLU Table:**

Condition: To change settings of a PLU: When the required PLU sales total memory is zero (i.e. when no sales are made or after a PLU Reset Report is taken to reset the sales data of the PLU into zero)

To add new PLUs: Any time outside a sale.
(refer to "NOTE on Condition" on page 20)

Programming Procedure:

Use the **MA Key** to turn the Control Lock to "SET".



NOTES 1. When sequentially programming the PLUs, the code specification can be omitted. When it is omitted at the very first PLU, PLU Code "1" is automatically assigned.

2. An Open-price PLU always requires a price entry through Numeric Keys in sale entries, and may be used for an item that frequently changes its price.

3. The statuses (Positive/Negative Status, Tax (PST) 1 & 2 Status, GST Status, and Key Type Status) of each PLU is decided by the statuses of the Department to which the PLU is linked.

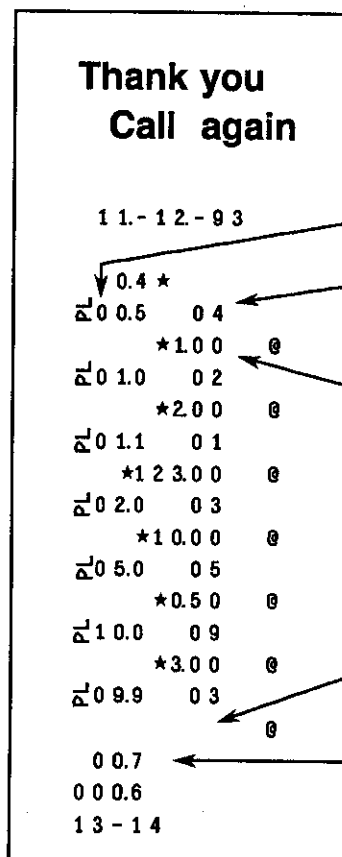
PLU Table Program Receipt Format:

Key Operation

Control Lock: SET

4 @/FOR

PLU Code	PLU	Preset Price	Dept.
5	PLU	1 0 0	Dept. 4
1 0	PLU	2 0 0	Dept. 2
(1 1	PLU)	1 2 3 0 0	Dept. 1
2 0	PLU	1 0 0 0	Dept. 3
5 0	PLU	5 0	Dept. 5
1 0 0	PLU	3 0 0	Dept. 9
9 9	PLU	AMT	Dept. 3
AT/TL			

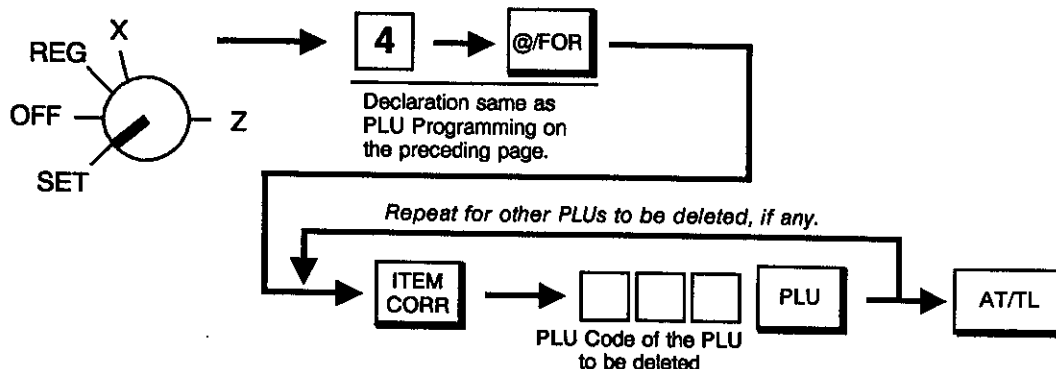


Deleting Individual PLUs:

When any of the PLUs once programmed are not handled any more in the store, they can be deleted.

Condition: When the required PLU sales total memory is zero (i.e. when no sales are made or after a PLU Reset Report is taken to reset the sales data of the PLU into zero)
(refer to "NOTE on Condition" on page 20)

Deleting Procedure:



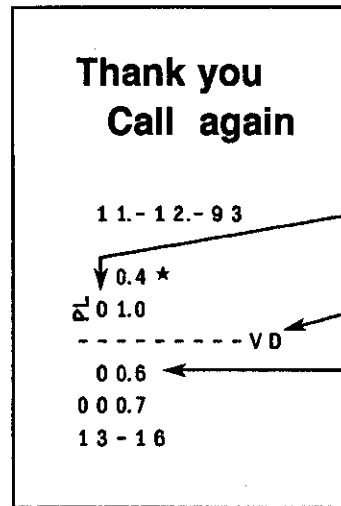
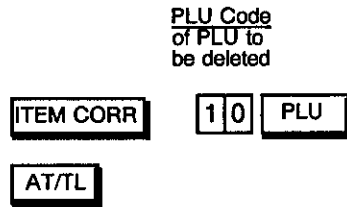
- NOTES 1.** Deletions are possible PLU by PLU.
2. If all the PLUs must be deleted (i.e., the PLU system itself is not necessary), close the [PLU] Key. (Refer to Chapter 13.)

PLU Deletion Receipt Format:

Key Operation

Control Lock: **SET**

4 **@/FOR**



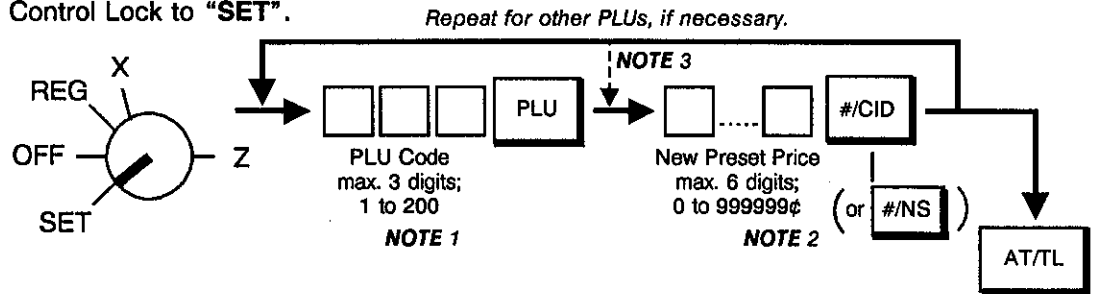
Changing PLU Preset Prices:

When only changing preset prices of PLUs as part of daily requirements, this operation is quicker than operating "Programming PLU Table".

Condition: Any time outside a sale.

Programming Procedure:

Use the **MA Key** to turn the Control Lock to "SET".

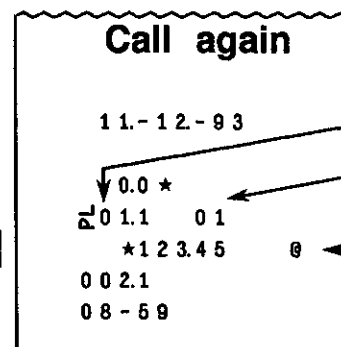
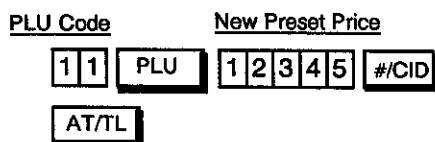


- NOTES 1.** The PLU Codes must exist in the PLU table file already programmed.
- 2.** If "0" is entered as the New Preset Price, price of \$0.00 is set. Neither price setting nor changing is possible for Open-price PLUs in this operation.
- 3.** For sequentially accessing PLU Codes, the code specification can be omitted.

PLU Price Change Setting Receipt Format:

Key Operation

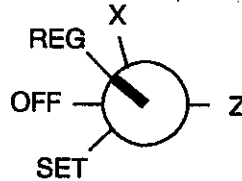
Control Lock: **SET**



Sale Item Entries of PLUs

Various types of PLU entries are shown below.

Use the **REG** Key to turn the Control Lock to "REG".



Entry of One PLU Item:

Preset-price PLU



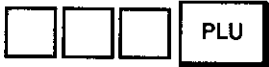
PLU Code
max. 3 digits;
1 to 200

If an error occurs here:

Possible cause of error:

- Undefined PLU Code has been entered.
→ Enter a code of those PLUs programmed.

Open-price PLU



PLU Code
max. 3 digits;
1 to 200

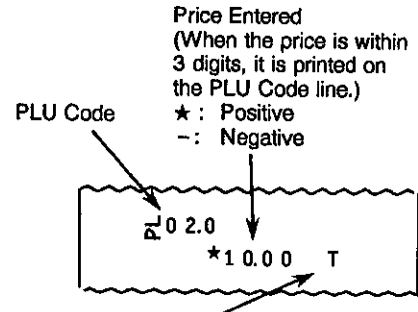


Price
max. 6 digits

If an error occurs here:

Possible cause of error:

- Exceeding the price digit limit.
→ Check the price.
- The PLU Code entered is a Preset-price PLU.
→ In that case the PLU item is already entered and printed on the [PLU] key depression. Check if the PLU Code and the price are correct.



Status Symbol (same with Dept. Items)

- T: Tax 1 or Tax 2 (PST) Taxable
- *: GST Taxable
- T*: Tax (PST) Taxable and GST Taxable
- Blank: Not applicable to any of the above status.

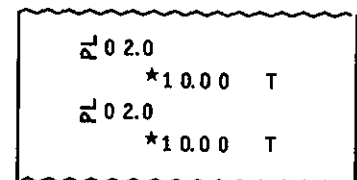
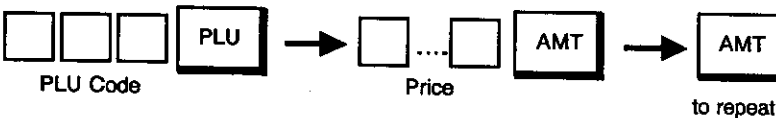
PLU Repeat Entry:

Depress again the last key of the sequence for "Entry of One PLU Item" above. The item entry is repeated as many times as the last key is depressed. (A negative PLU entry cannot be repeated.)

Preset-price PLU



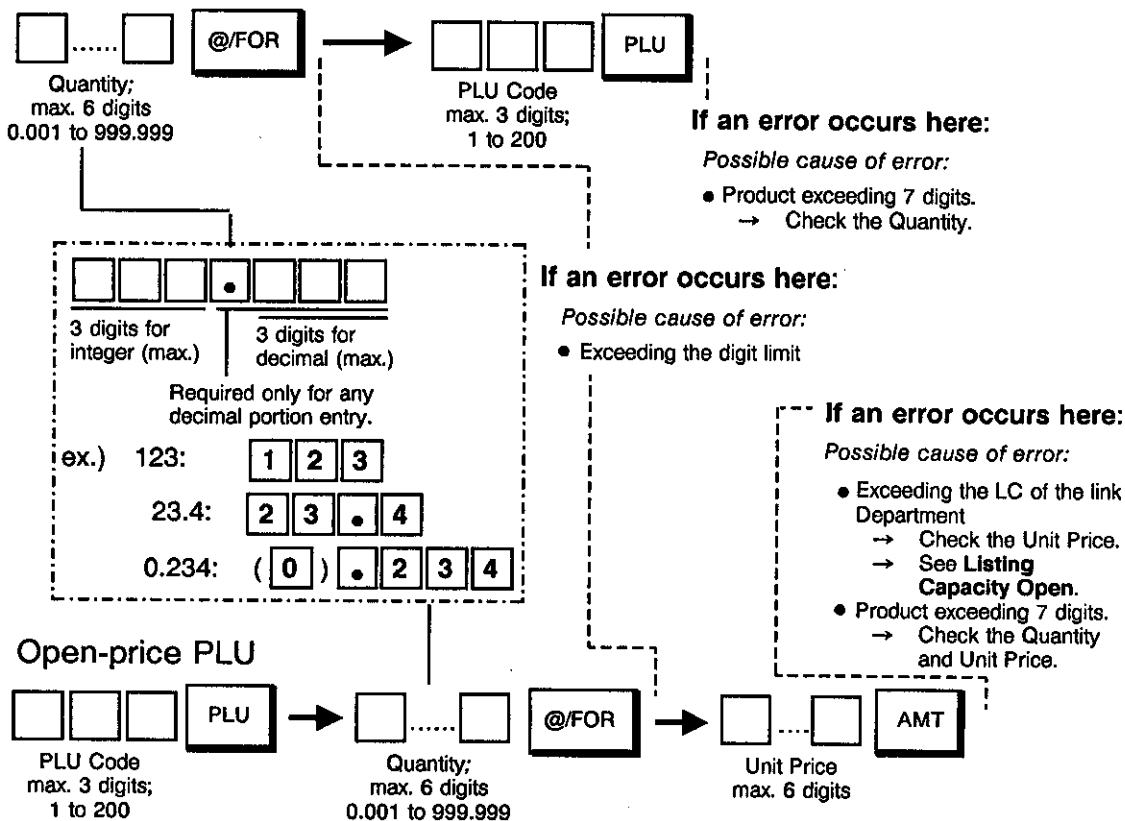
Open-price PLU



PLU Quantity Extension (Multiplication):

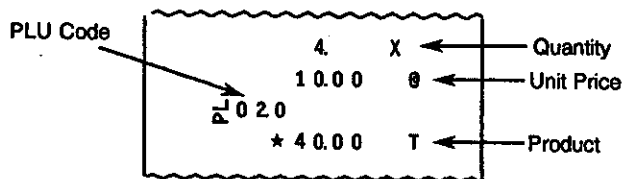
When more than three or four items are to be entered with the same PLU item, the Quantity Extension (multiplication) is quicker than the Repeat Entry.

Preset-price PLU



- NOTES 1.** The product obtained by Quantity Extension cannot be repeated.
- 2.** The decimal portion of the Quantity entry is processed down to the 2 digits below the decimal point. The fraction rounding at this time is fixed to ROUND OFF.
- 3.** You can select the rounding process of the fractions of the product (result of multiplication) -- ROUND OFF (initial setting), ROUND UP, or ROUND DOWN. (Refer to Chapter "17. System Option Setting" Address 2 - Bits 1 and 2.)

Receipt Print Format for PLU Quantity Extension



Single-Item PLU Entry:

If a Department Key is programmed with Single-item status, an entry through a PLU which links to the Department immediately finalizes the sale as cash and issues a receipt without operating a media key (just as the operation using a Single-item Department Key).

Such PLUs are operated in the same way as ordinary (itemized) PLUs already described, except that Repeat Entry is not possible using Single-item PLUs.

- NOTES 1.** An item entry through such a PLU will automatically finalize the sale as cash outside a sale (i.e. when no other items have been entered within one receipt sequence). However, it will function just as an Itemized PLU if operated inside a sale.
2. Quantity Extension is also possible using Single-item PLUs.

Receipt Print Format for Single-item PLU Entries

Example 1) -- Entry outside a sale --

When no sale is under way, a PLU item (PLU Code 101, Preset Price \$3.40, linking to a Single-item and Non-taxable department) is entered.

The sale is automatically finalized as cash and a receipt is issued.

1 0 1 PLU

Thank you Call again	
11.-12.-93	
10.1	*3.40
	*3.40 CA
010.7	
09-18	

Example 2) -- Entry inside a sale --

An item of \$5.00 is first entered through Dept. 1 which is an Itemized & Non-taxable department.

Then an item of PLU Code 101 (defined as in *Example 1*) above is entered.

The sale is not finalized until a media key is operated.

5 0 0 Dept. 1
1 0 1 PLU

Thank you Call again	
11.-12.-93	
01	*5.00 T
10.1	*3.40

⋮

Listing Capacity Open

LC OPEN

(Listing Capacity Open Key)

As for setting LCs, see "Programming Department LCs" in the "Department Keys" section.

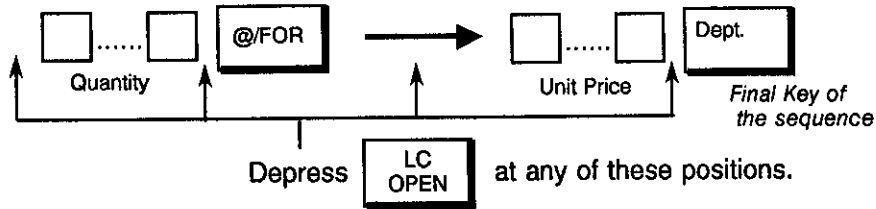
When an item entry price exceeds the LC in sale entries, an error will result. To enter a price larger than the limit defined by the LC, use the [LC OPEN] key.

Depress **LC OPEN** prior to or any time during the entry sequence of the following operations for Open-price Departments and PLUs already described:

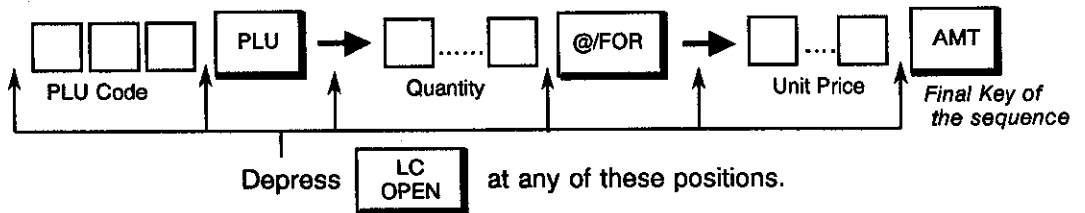
- Entry of One Department Item
- Department Repeat Entry
- Department Quantity Extension
- Department SPP
- Single-Item Department Entry
- Entry of One PLU Item
- PLU Repeat Entry
- PLU Quantity Extension
- Single-Item PLU Entry

Please note that the [LC OPEN] key must be pressed, at the latest, before the final key of the required Department or PLU entry sequence. The LC for the department or PLU will be extended with two higher digits for that entry only.

Example 1) Department Quantity Extension sequence:



Example 2) PLU Quantity Extension sequence:



Percent Charge, Percent Discount

% + (% + Key) **% -** (% - Key)

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

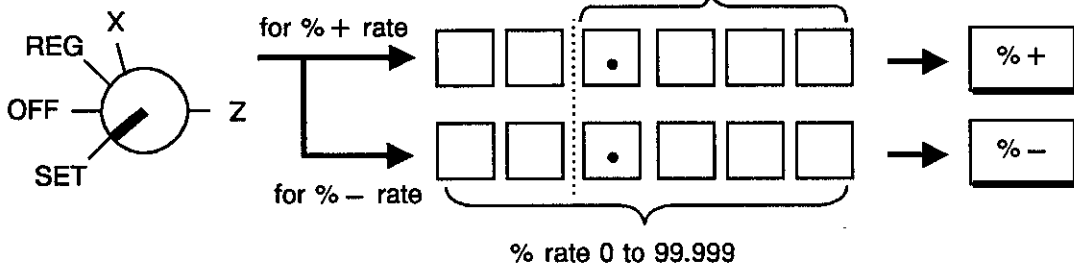
Setting Preset Rate for % Keys

Condition: Any time outside a sale.

Programming Procedure:

Use the **MA Key** to turn the Control Lock to "SET".

This portion is required only when any decimal portion is contained in the rate.



Examples)

7%:

7

12%:

1 2

8.55%:

8 . 5 5

12.345%:

1 2 . 3 4 5

To reset the rate once set:

0

When "0" is set, the % key will always require a manual rate entry to be operated in sale entries.

**Thank you
Call again**

1 1 - 1 2 - 9 3

0.0 *

1 0. % +

0 0 1.3 % + 10%
0 8 - 5 4 is set.

**Thank you
Call again**

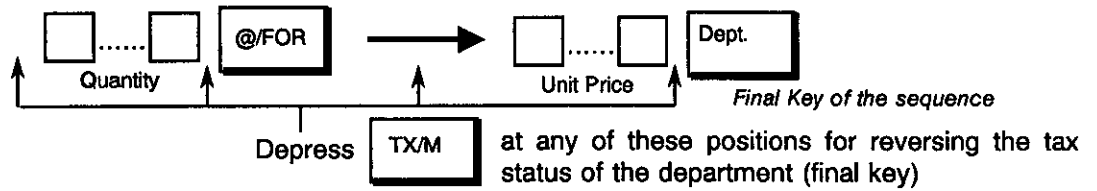
1 1 - 1 2 - 9 3

0.0 *

5. % -

0 0 1.4 % - 5%
0 8 - 5 4 is set.

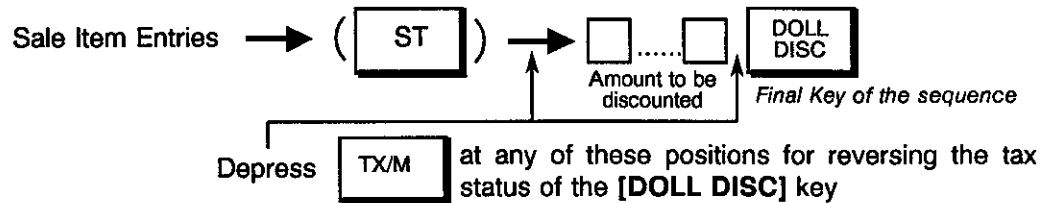
Example) Reversing Tax (PST) 1 status of a Department item **Department Quantity Extension** sequence:



- Depress the required Modifier Key(s) prior to or any time during (before the final key at the latest) the entry sequence of the following operations already described. More than one Modifier Keys can be depressed for the same item entry:

Percent Charge
Percent Discount
Dollar Discount } The Tax Status of each key (refer to **Chapter 17. System Option Setting, Address 3** and supplementary descriptions) is reversed:
 • Taxable → Non-taxable • Non-taxable → Taxable

Example) Reversing Tax (PST) 1 status of **Dollar Discount** entry:

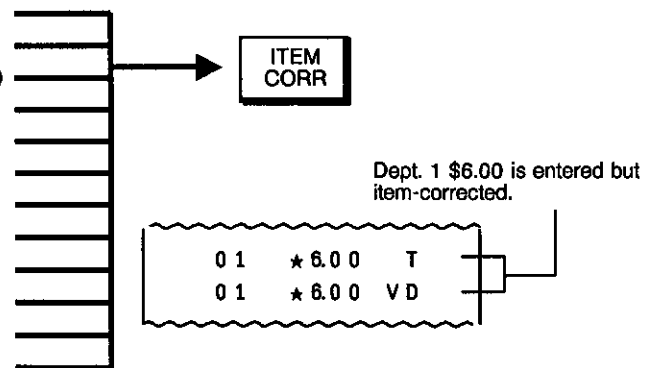


Item Correction (Last Line Voiding)

ITEM CORR (Item Correct Key)

The last line item (any of the following items that has just been entered within the current transaction) can be deleted by the **[ITEM CORR]** key.

- Entry of One Department Item
- Department Repeat Entry (NOTE 1)
- Department Quantity Extension (NOTE 2)
- Department SPP (NOTE 2)
- Entry of One PLU Item
- PLU Repeat Entry (NOTE 1)
- PLU Quantity Extension (NOTE 2)
- Percent Charge or Percent Discount
- Dollar Discount
- Received-on-Account Item
- Paid Out Item
- Manual Tax



- NOTES 1.** When the **[ITEM CORR]** key is depressed after repeated items, only the last item of the repeated is deleted, decrementing the "RPT" count in the display.
- 2.** When the **[ITEM CORR]** key is depressed after a Quantity Extension or SPP, the entire product (result of the calculation) is deleted.
- 3.** Void, Returned Merchandise items cannot be deleted by the **[ITEM CORR]** key. Neither can any media amount be item-corrected even if it is short-tendered.
- 4.** When the **[C]** key is used to clear any numeric data, the item-correct function is still active for the preceding item. However, if the **[C]** key is used to clear an error, the preceding item can no longer be item-corrected.

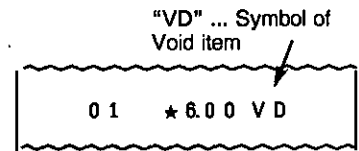
Void (Designated Line Voiding)

VOID (Void Key)

A Department or PLU item entered before the last item but canceled in the current sale (which can no longer be deleted by [ITEM CORR]) is entered as a Void item using the [VOID] key. If this key is not installed on your register, the [RTN MDSE] key may be used for voiding purposes (refer to the preceding page). If both [VOID] and [RTN MDSE] are installed, [VOID] should be used to cancel (delete) an item already entered within the current transaction while [RTN MDSE] should be used to record an item that was purchased in a past sale and is now returned.

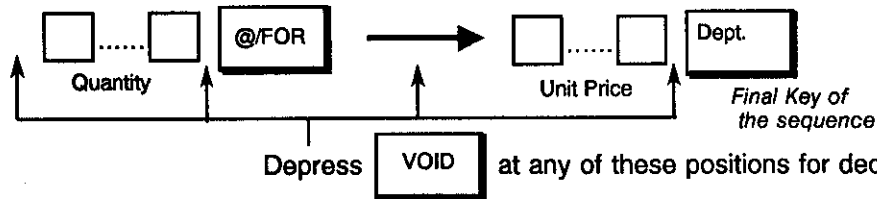
- Depress the [VOID] key prior to or any time (before the final key at the latest) during a required Department or PLU item entry sequence. (The only difference is a depression of the [VOID] key):

Entry of One Department Item
 Department Quantity Extension
 Department SPP
 Single-Item Department Entry
 Entry of One PLU Item
 PLU Quantity Extension
 Single-Item PLU Entry



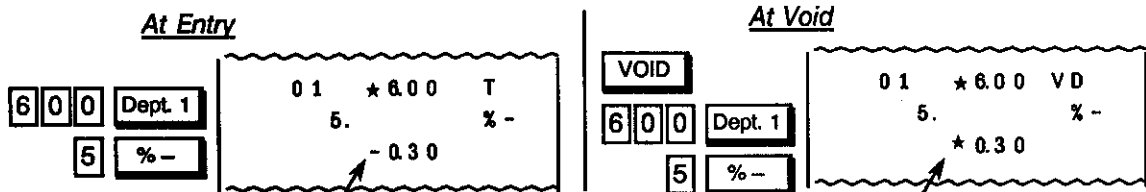
(Repeat entry is not possible using the [VOID] key.)

Example) Items once entered through an Open-price Department in a Quantity Extension sequence at purchase are now voided:



- When an item previously entered with a Percent Charge or Percent Discount is canceled, the item can be voided with the Percent Charge/Discount by attaching the [VOID] key to the same entry procedure as the previous entry:

Example) Dept. 1, \$6.00 with 5% discount entered then voided in a sale:



- NOTES 1.** The Void entries are usually possible only inside a sale. However, when the option "Credit Balance Allowed" is selected, they are allowed outside a sale as well and over-subtraction of the sale is also allowed. (Refer to Chapter "17. System Option Setting", Address 2 - Bit 3.)
2. Neither Negative Department nor Negative PLU items can be entered as Void items.
 3. A Void entry cannot be item-corrected.

Returned Merchandise

RTN MDSE

(Returned Merchandise Key)

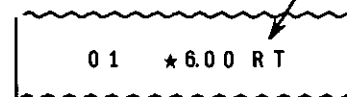
A Department or PLU item once purchased (i.e. the sale is already finalized) then returned by a customer can be entered as a Returned Merchandise item. If the **[VOID]** key is not installed on your register, this function may also used as Void entry (*refer to Void entries on the next page*).

- Depress the **[RTN MDSE]** key prior to or any time (before the final key at the latest) during a required Department or PLU item entry sequence. (The only difference is a depression of the **[RTN MDSE]** key):

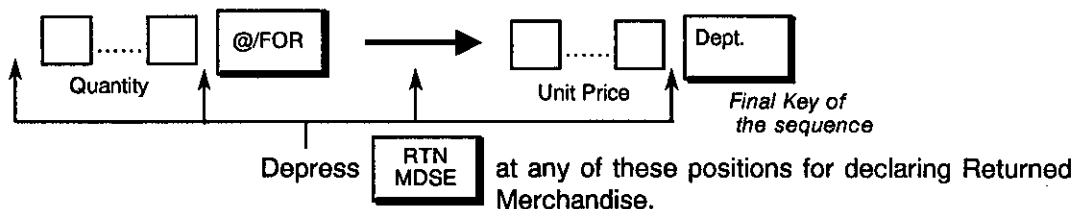
Entry of One Department Item
 Department Quantity Extension
 Department SPP
 Single-item Department Entry
 Entry of One PLU Item
 PLU Quantity Extension
 Single-Item PLU Entry

(Repeat entry is not possible using the **[RTN MDSE]** key.)

"RT" ... Symbol of Returned Merchandise

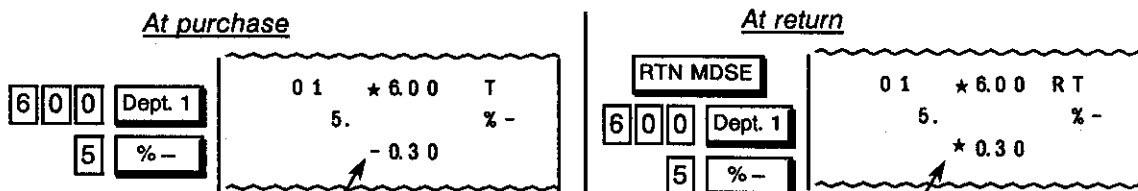


Example) Items once entered through an Open-price Department in a Quantity Extension sequence at purchase are now returned:



- When an item once purchased with a Percent Charge or Percent Discount is returned, the item can be returned with the Percent Charge/Discount by attaching the **[RTN MDSE]** key to the same entry procedure as purchase:

Example) Dept. 1, \$6.00 with 5% discount, purchased and returned.



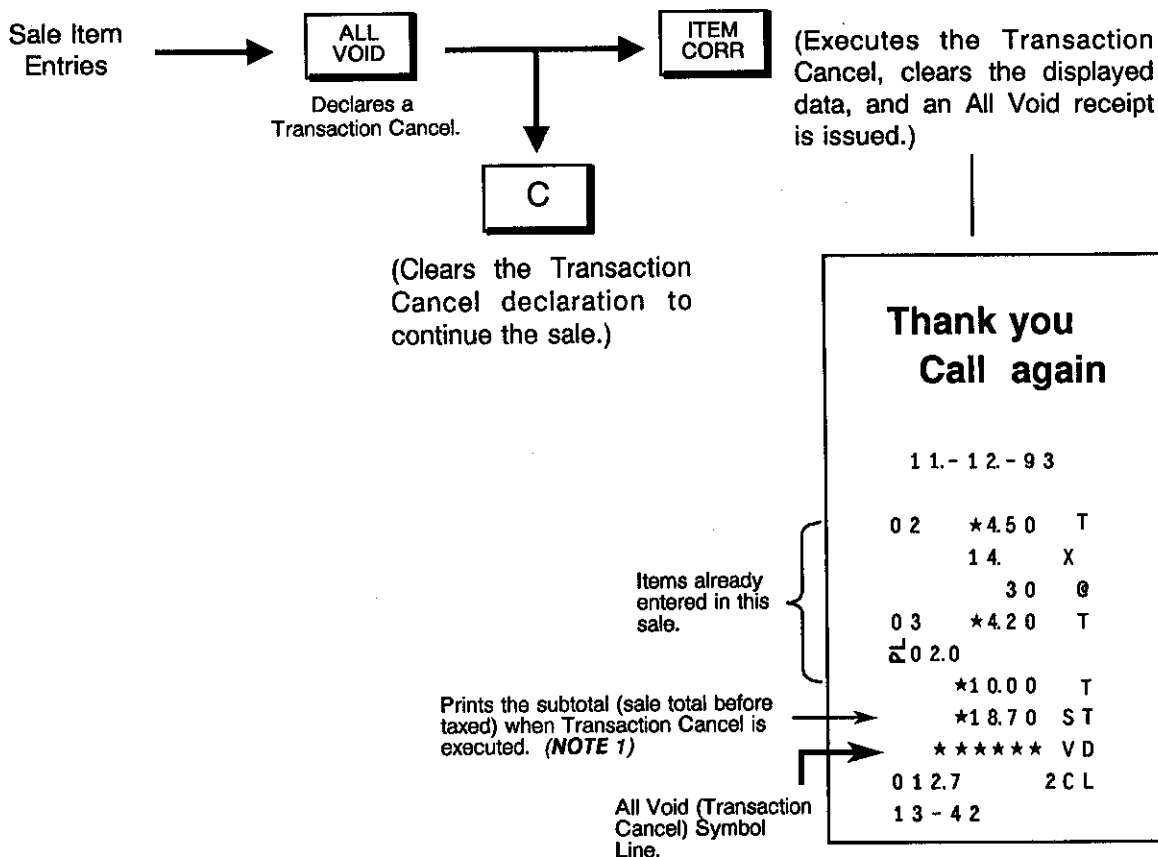
The process of the amount resulted from % calculation is reversed at Return.

- NOTES 1.** The Returned Merchandise entries are possible outside as well as inside a sale.
2. Over-subtraction of the sale is allowed for Returned Merchandise entries.
3. Neither Negative Department nor Negative PLU items can be entered as Returned Merchandise.
4. A Returned Merchandise cannot be item-corrected.

All Void (Transaction Cancel)**ALL
VOID**

(All Void Key)

When some items have already been entered in the current sale and the customer cancels the entire contents of the sale, the **[ALL VOID]** key is used.



- NOTES 1.** The sale is canceled; therefore, no payment should occur. However, subtotal amount printed on the All Void receipt is processed into the "All Void" total of the report memory.
2. The All Void operation is no longer acceptable when any media key (such as **[AT/TL]**) is entered including short-tendering.
 3. If Tax Exempt (using the **[EX]** key) is entered, the sale can no longer be all-voided.
 4. The All Void function is not effective for Received-on-Account or Paid Out transactions.
 5. When more than 20 items have been entered in the current sale, the All Void function is no longer effective.

Non-add Number Print

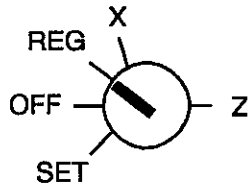
#/CID

(Non-add Number Print/Cash-in-drawer Key)

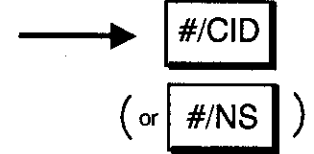
#/NS

(Non-add Number Print / No-sale Key)

When any code number is to be recorded for future reference, such as a Check No., Customer No., Credit Card No., House Charge Account No., etc., a Non-add Number Print function is used.

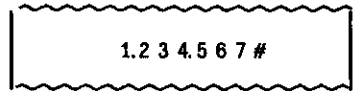


Code Number; max. 8 digits
(Decimal Point is not allowed.)



NOTE 4

Example)

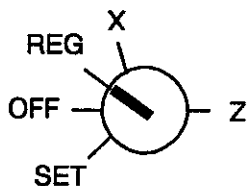


- NOTES 1.** A Non-add Number can be entered at the starting of a sale or any time during a sale if it is not finalized. It is operable any number of times within a sale. However, when operated at the starting, a transaction entry must follow.
- 2.** The entered number will not affect any sales data. It is merely a print for reference.
- 3.** The preceding zeros, if any, will not be printed. For example, if "012300" is entered, "12300" is printed.
- 3.** Usually, Non-add Number entries are prohibited at the starting of a No-sale transaction (i.e, Non-add Numbers cannot be printed on a No-sale receipt). However, a No-sale entry can be programmed to be allowable after a Non-add Number entry (refer to Chapter "17. System Option Setting", Address 15 - Bit 1).
- 4.** The **[/NS]** key operates and functions the same. When this key is simply depressed without a prior numeric entry in REG mode, it functions as the **[NS]** (No-sale) key. (Refer to the section of No-sale.)

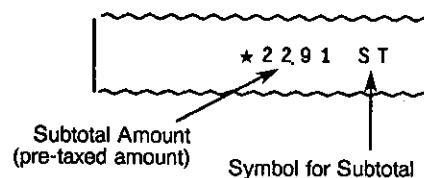
Subtotal Read & Print**ST**

(Subtotal Key)

When the sale total of the current sale is to be read by the customer's request or the operator's requirement, the [ST] key is used.

Sale Item
Entries**ST**

The sale total of the items so far entered is displayed in the AMOUNT portion with the "ST" triangular lamp illuminated. At the same time, the sale total is printed. The sale is not finalized yet.



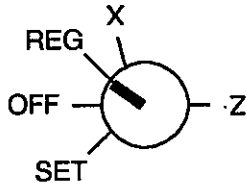
- NOTES 1.** When the [ST] key is depressed, the sale total is displayed and printed. However, you can select not to print (display only) by a system option. (Refer to Chapter "17. System Option Setting" - Address 1 - Bit 3.) Even if this non-print option is selected, the subtotal amount is automatically printed when a Percent Charge/Discount or Dollar Discount entry follows a subtotal entry.
2. The displayed subtotal amount includes the taxes due (Tax 1, Tax 2, & GST) while the printed subtotal amount is the pre-taxed amount (amount not including taxes due). As for the displayed amount, you can select to display the pre-taxed amount by a system option. (Refer to Chapter "17. System Option Setting" - Address 15 - Bit 4.) This option is recommended only when both [ST] and [TXBL TL] (Taxable Total) keys are installed. In that case, [ST] displays pre-taxed amount while [TXBL TL] displays post-taxed amount (amount including taxes due).
 3. If the option "Taxable Total Compulsory" is selected with the function of subtotal display including taxes due (refer to NOTE 2 above), the [ST] key must always be depressed before operating media keys for finalizing a sale.
 4. When the [ST] key is depressed more than once consecutively, the subtotal amount is only displayed but no print occurs from the second time one. If the [C] key is operated to clear a numeric entry or error, etc. after a subtotal is once obtained, the subtotal amount is again displayed.

Taxable Total Read



(Taxable Total Key)

When the Taxable Total (sale total including taxes) is to be read by the customer's request or the operator's requirement, the [TXBL TL] key is used.



Sale Item Entries



The sale total of the items so far entered is displayed in the AMOUNT portion with the "ST" triangular lamp illuminated. The sale total amount displayed includes taxes due (Tax 1, Tax 2, & GST). No print occurs. The sale is not finalized yet.

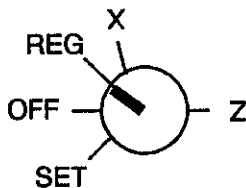
- NOTES 1.** If the option "Taxable Total Compulsory" is selected, the [TXBL TL] key must always be depressed before operating media keys for finalizing a sale.
- 2.** If the [C] key is operated to clear a numeric entry or error, etc. after a Taxable Total is once obtained, the Taxable Total amount is again displayed.

Manual Tax Entry

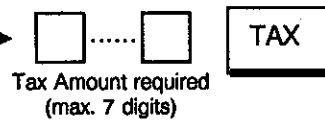


(Manual Tax Key)

This is an Optional Key, used to enter an irregular tax amount that cannot be calculated on the basis of the programmed tax tables, and to add it to the sale total.



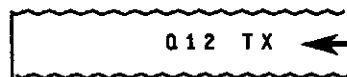
Sale Item Entries



The entered tax amount is printed and added to the sale.

- NOTES 1.** The amount entered through the [TAX] key is not included in the tax amount automatically calculated at sale finalization. The Manual Tax amount is separately added and is processed into the Manual Tax total (separately from Tax 1, Tax 2, and GST) in the report memory.
- 2.** A Manual Tax amount entered can be item-corrected, but cannot be deleted by [VOID] or [RTN MDSE].

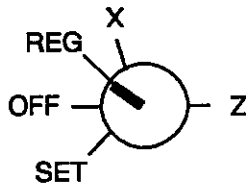
Print Format of Manual Tax Entry



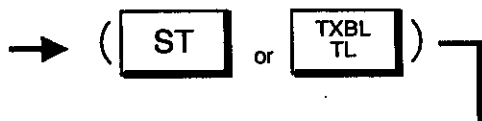
A Manual Tax of \$0.12 is entered. The "TX" symbol during a sale indicates Manual Tax. (The same symbol also indicates auto-calculated tax when printed at sale finalization.)

Cash Total, Cash Tender AT/TL (Cash Amount Tender/Total Key)

When sale items have all been entered and the customer will pay in cash, this key finalizes the sale and issues a receipt. *When the customer will pay in other media (non-cash media), refer to the next section "Non-cash Media Total, Non-cash Media Tender".*



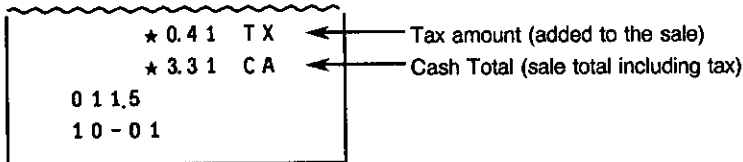
All the items are entered for the customer.



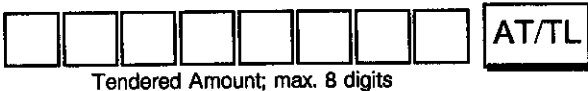
To finalize without tendering (Total function):



Displays the sale total amount (including taxes) with the "TL" lamp illuminated. The sale is finalized, the drawer opens, and a receipt is issued, printing the "TX" (tax amount) and "CA" (cash total amount including tax) on separate lines.

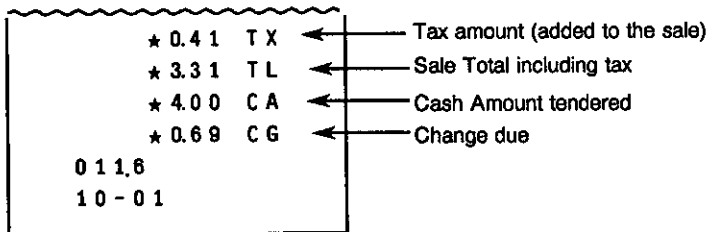


To finalize with a cash amount tendered (Tender Function):



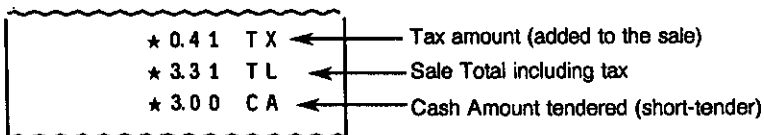
When the amount tendered is equal to or larger than the sale total:

Displays the amount of change due with the "CG" lamp illuminated. The sale is finalized, the drawer opens, and a receipt is issued, printing the "TX" (tax amount), "TL" (sale total including tax), "CA" (cash amount tendered), and "CG" (change due).



When the amount tendered is smaller than the sale total:

Displays the balance due (shortage). Prints "TX", "TL", and "CA" (short-tendered cash amount). The sale is not finalized. (Refer to the section "Multi-tender, Split-tender".)



- NOTES 1.** The **[AT/TL]** key functions as Total Key if simply pressed, or as Tender Key if pressed with a prior amount entry. However, it can be programmed to be used as Tender Key only (refer to Chapter "17. System Option Setting", Address 6 - Bit 1).
2. When the sale total is zero or negative, only the Total Key function is effective regardless of the key option selection described in NOTE 1 above.
 3. When the option "Taxable Total Compulsory" (refer to Chapter "17. System Option Setting", Address 2 - Bit 4) is selected, the sale is finalized only after reading the sale total (by **[ST]** or **[TXBL TL]**).
 4. When the option "Short-tendering Prohibited" is selected (refer to Chapter "17. System Option Setting", Address 11 - Bit 1), short-tendering is not possible.
 5. The **[AT/TL]** key is also used to finalize a Received-on-Account or Paid Out transaction. (Refer to the respective sections.)

Non-cash Media Total, Non-cash Media Tender

CHK
TND

(Check Tender)

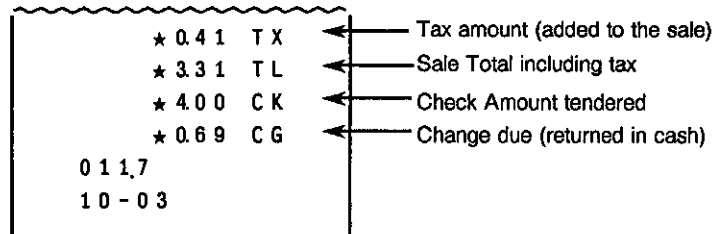
These keys are non-cash media keys to be used for finalizing a sale as alternative media. The keys operate the same as [AT/TL] key. (Refer to the section "Cash Total, Cash Tender".)

Chg

(Charge Total Key)

Finalizing a Sale as Check:

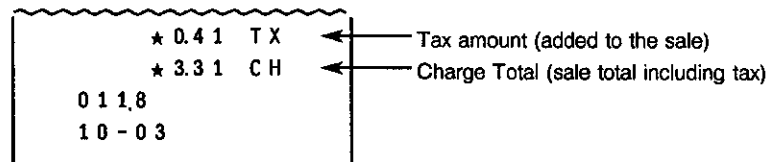
Use the [CHK TND] key instead of [AT/TL] for finalizing a sale paid for in check.



- NOTES 1.** The [CHK TND] key functions as Tender Key only. However, it can be programmed to have both Tender and Total functions (refer to Section "17. System Option Setting", Address 7 - Bit 1). Also, over-tendering can be programmed to be prohibited, if necessary (Address 7 - Bit 4).
2. When the key is programmed as Tender-only key, attempting to finalize a negative-balance sale will cause an error.
 3. When the option "Taxable Total Compulsory" (refer to Chapter "17. System Option Setting", Address 2 - Bit 4) is selected, the sale is finalized only after reading the sale total (by [ST] or [TXBL TL]).
 4. When the option "Short-tendering Prohibited" is selected (refer to Chapter "17. System Option Setting", Address 11 - Bit 1), short-tendering is not possible.
 5. When programmed as Tender-only Key and the option "Over-tendering Prohibited" is selected (refer to Chapter "17. System Option Setting", Address 7 - Bit 4), over-tendering is not possible.
 6. The [CHK TND] key is also used to finalize a Received-on-Account transaction. (Refer to the section of Received-on-Account Payment.)

Finalizing a Sale as Charge:

Use the [Chg] key instead of [AT/TL] for finalizing a sale to be processed as Charge account. The key may be used to finalize in any other media than cash and check, such as house charge, credit card, etc. (whatever media the store defines to be acceptable).



- NOTES 1.** The [Chg] key functions as Total Key only. However, it can be programmed to have both Tender and Total functions (refer to Section "17. System Option Setting", Address 8 - Bit 1).
2. When the option "Taxable Total Compulsory" (refer to Chapter "17. System Option Setting", Address 2 - Bit 4) is selected, the sale is finalized only after reading the sale total (by [ST] or [TXBL TL]).
 3. When the option "Short-tendering Prohibited" is selected (refer to Chapter "17. System Option Setting", Address 11 - Bit 1), short-tendering is not possible.
 4. When programmed as Tender-and-Total Key and the option "Over-tendering Prohibited" is selected (refer to Chapter "17. System Option Setting", Address 8 - Bit 4), over-tendering is not possible.

Multi-tender, Split Tender

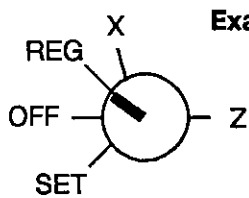
AT/TL

CHK
TND

Chg

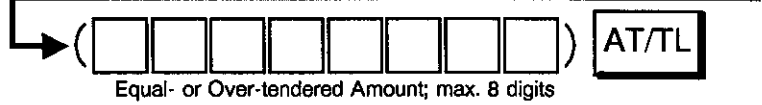
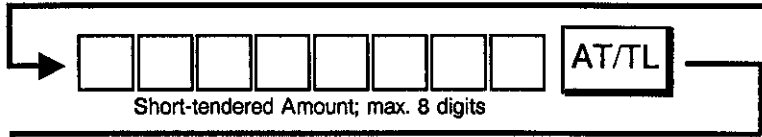
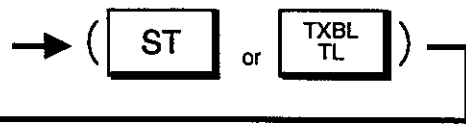
(media keys)

Multi-tender (Short-tender repeated by the same media):



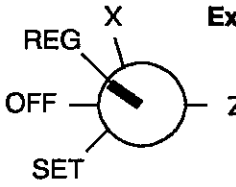
Example)

All the items are entered for the customer.



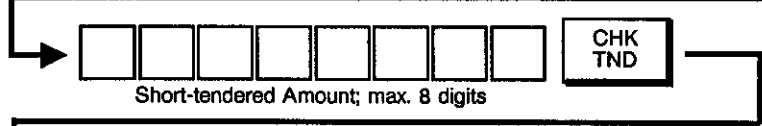
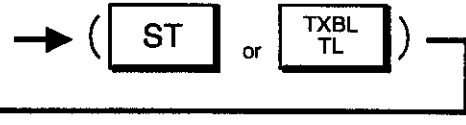
* 0.50	TX	←	Tax amount (added to the sale)
* 10.30	TL	←	Sale Total (sale total including tax)
* 1.00	CA	←	1st Cash-tendered (short)
* 1.00	CA	←	2nd Cash-tendered (over)
* 0.70	CG	←	Change due
011.7			
10-04			

Split Tender (Short-tender repeated by the different media):



Example)

All the items are entered for the customer.



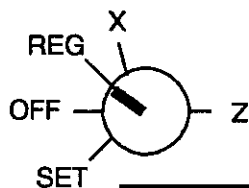
* 0.50	TX	←	Tax amount (added to the sale)
* 10.30	TL	←	Sale Total (sale total including tax)
* 7.00	CK	←	1st media (Check) tendered (short)
* 3.30	CA	←	2nd media (Cash) total
011.8			
10-04			

- NOTES 1.** In both Multi-tender and Split Tender operations, the sale is finalized and a receipt is issued on reaching the sale total amount.
- 2.** Only the media keys programmed to have "Tender" function and to allow "Short-tendering" can be operated with a short-tendered amount entry in the above operation sequences.
- 3.** If a media key is depressed without an amount tender entry and is programmed to function as Total key, the sale is then finalized on that stage processing the balance at that moment into that media.

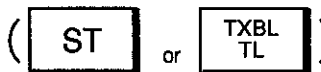
Tax Exemption

EX (Tax Exempt Key)

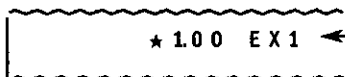
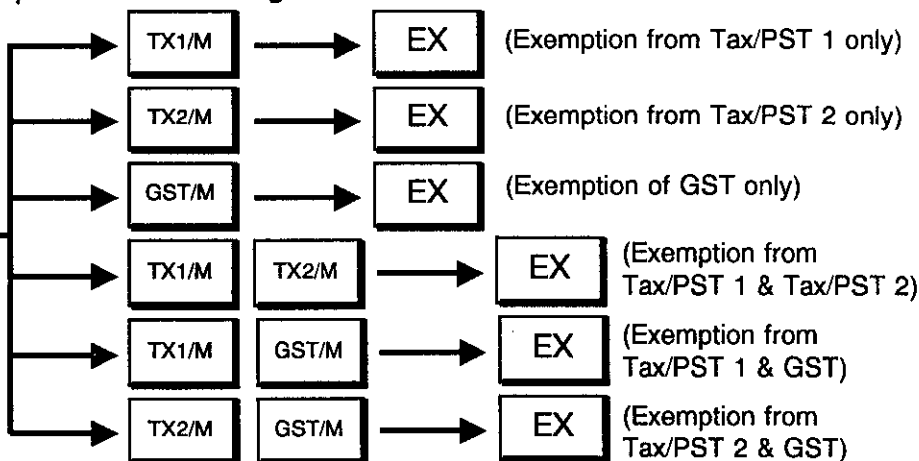
When an entire sale must be exempted from designated or all taxes (Tax/PST 1, Tax/PST 2, GST), the **[EX]** key is used near the end of the sale finalization. (To exempt an individual item from designated taxes, only Tax Modifier Keys are used in entering the item. Refer to the section "Tax Modification".)



All the items are entered for the customer.



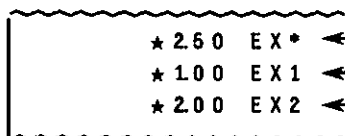
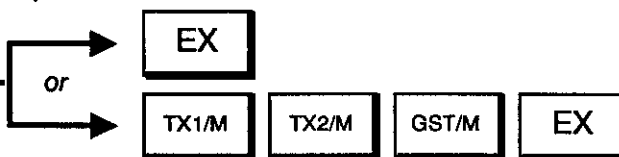
To exempt the sale from **designated taxes**:



The sale portion (pre-taxed amount) subject to the tax exemption (Tax/PST 1 in this example).

At the same time, the display shows the Sale Total due (including non-exempted taxes and excluding exempted taxes).

To exempt the sale from **all taxes**:



← Sale portion (pre-taxed) exempted from GST
 ← Sale portion (pre-taxed) exempted from Tax/PST 1
 ← Sale portion (pre-taxed) exempted from Tax/PST 2

At the same time, the display shows the Sale Total due (excluding all taxes).

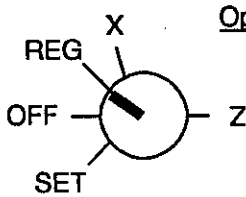
- NOTES 1.** The Tax Exempt entry cannot be item-corrected.
2. After depressing the **[EX]** key, the sale must only be finalized (for payment through media keys).
3. If the "Non-taxable Amount Limit" is set for certain areas in Canada, using the **[GST/M]** key will cause an error and GST Exemption is not allowed.

Check Cashing

CHK TND (Check Tender)

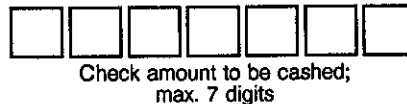
Chg (Charge Total Key)

Check cashing requested by a customer is entered through a non-cash media key. It is operable only outside a sale (i.e. when no sale is underway on the register).

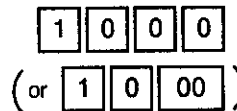


Operable outside a sale only

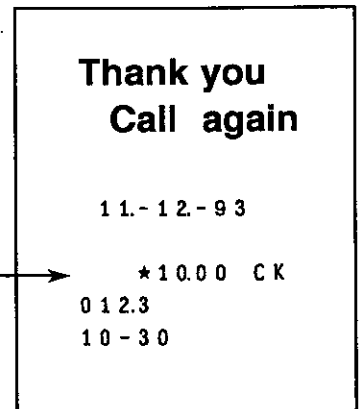
To cash a check:



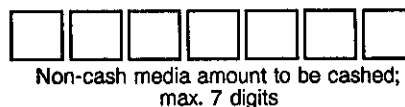
Example) To enter \$10.00:



CHK TND NOTE 2



To cash other non-cash media:



Chg NOTE 3

- NOTES 1. When the media key is depressed, the drawer opens to enable exchanging the check (or other non-cash media) into cash.
- 2. The [CHK TND] key is programmed to allow cashing. It can be programmed to prohibit cashing. (Refer to Chapter "17. System Option Setting", Address 7 - Bit 3.)
- 3. Similarly, cashing using the [Chg] key is programmed to prohibit cashing. It can be programmed to allow cashing. (Refer to Chapter "17. System Option Setting", Address 8 - Bit 3.)
- 4. The cashing operation will not increment the No-sale Counter of the report memory.

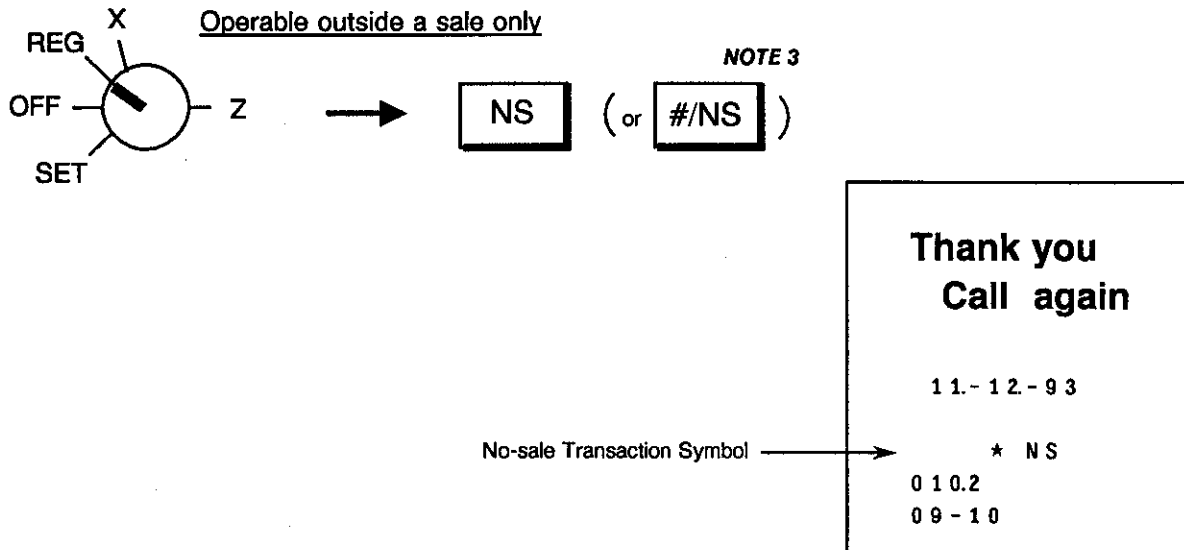
No-sale**NS**

(No-sale Key)

#/NS

(Non-add Number Print / No-sale Key)

The No-sale transaction is used to open the drawer without relating to a sale, for such purposes of giving changes (to break a large-amount bill), checking the receipt/journal print condition, date or time accuracy, etc. This operation must be performed outside a sale only.



- NOTES 1.** The drawer opens, and a No-sale receipt is issued.
2. Usually, Non-add Number entries are prohibited at the starting of a No-sale transaction (i.e., Non-add Numbers cannot be printed on a No-sale receipt). However, a No-sale entry can be programmed to be allowable after a Non-add Number entry (refer to Chapter "17. System Option Setting", Address 15 - Bit 1).
3. The **[/NS]** key operates and functions the same. When this key is depressed with a prior number entry, it functions as the Non-add Number Print key. (Refer to the section of **Non-add Number Print**.)

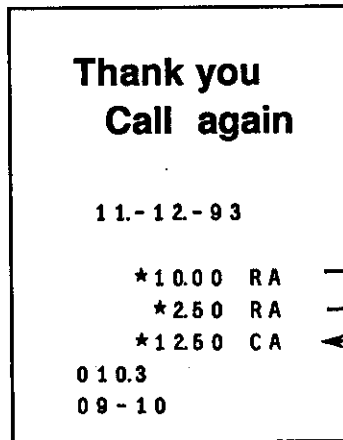
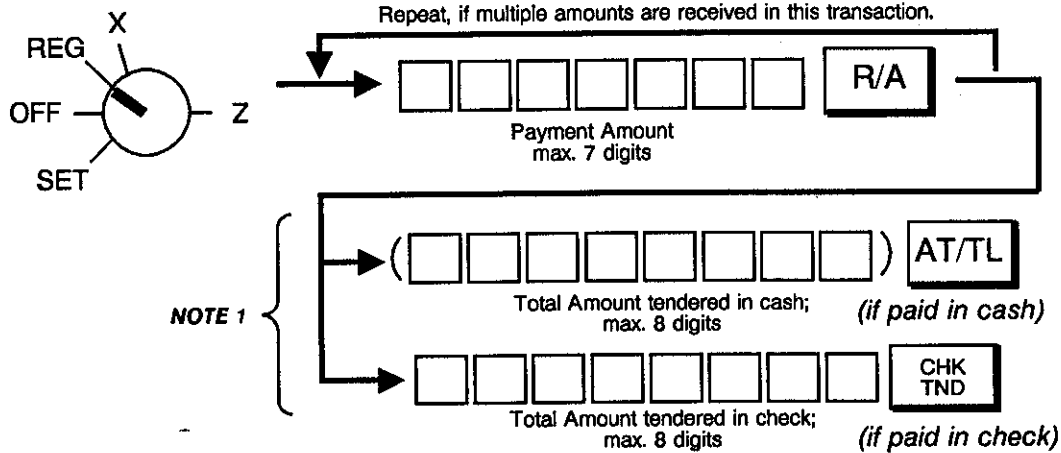
Received-on-Account Payment

R/A

(Received-on-Account Key)

A received-on-account transaction is used to identify money which is in the drawer but not due to business. For example, a customer pays for a sale finalized as a charge on a past day, or the cashier records the change reserve in the drawer loaned from the store office. This operation must be performed outside a sale only.

Operable outside a sale only



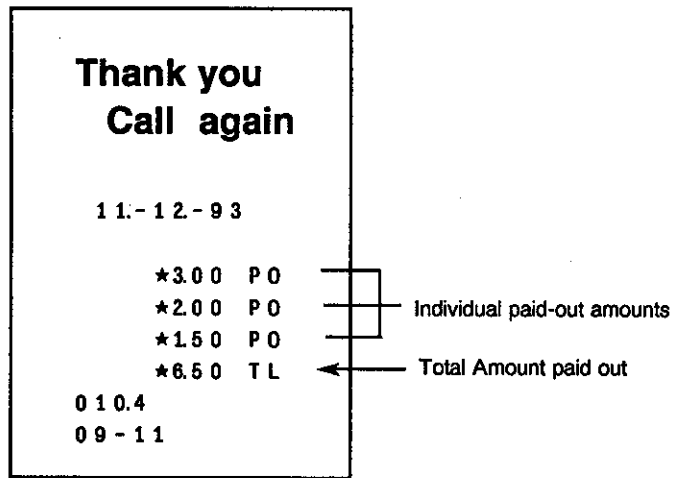
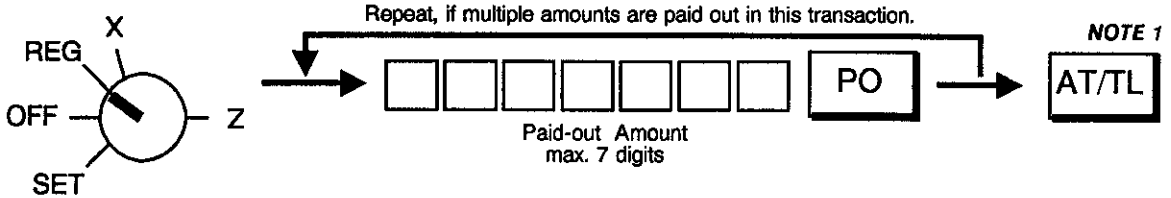
- NOTES 1.** For finalizing the transaction, the [Chg] key cannot be used. For further operation using the media keys, refer to the sections "Cash Total, Cash Tender" and "Non-cash Media Total, Non-cash Media Tender". Also refer to the section "Multi-tender, Split Tender".
- 2.** The R/A Counter in the report memory increments on each [R/A] key depression.

Paid Out

PO

A paid-out transaction is used when an amount of money is removed from the drawer without relating to a sale, for the purpose of paying to wholesalers, etc. This operation must be performed outside a sale only.

Operable outside a sale only



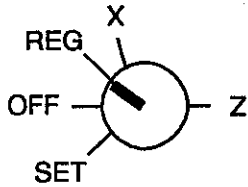
- NOTES 1.** For finalizing the transaction, only the [AT/TL] key can be used (i.e., only cash can be paid out) without entering a prior amount.
- 2.** The PO Counter in the report memory increments on each [PO] key depression.

Post-issue Receipt

**RECEIPT
ISSUE**

(Post-issue Receipt Key)

When a sale is finalized with the "R OFF" lamp extinguished (the illuminated/extinguished status can be switched by the [LOG/RECEIPT] key), a receipt is automatically issued. However, if a sale is finalized with the "R OFF" lamp illuminated but a receipt is required by the customer, this key works.



A sale is finalized, but no receipt is issued. (When the "R OFF" lamp is illuminated.)



**RECEIPT
ISSUE**

A post-issue receipt for the sale just finalized.

- NOTES 1.** When a sale has contents of 20 print lines or less, the post-issue receipt will be an itemized receipt, just as the ordinary receipt.
- 2.** When a sale has contents of more than 20 print lines, the post-issue receipt will be a total-only receipt.
- 3.** The Post-issue Receipt function is effective only when the Receipt-format Option has been selected and the [LOG/RECEIPT] key is installed.

Post-issue Receipt
(for a sale containing 20
print lines or less)

```

Thank you
Call again

11-12-93

05 *2.00
05 *2.00
    *4.00 ST
10.    %-
    -0.40
01 *0.55 T
    *0.06 TX
    *4.21 CA

010.6
09-14
    
```

Post-issue Receipt
(for a sale containing
more than 20 print lines)

```

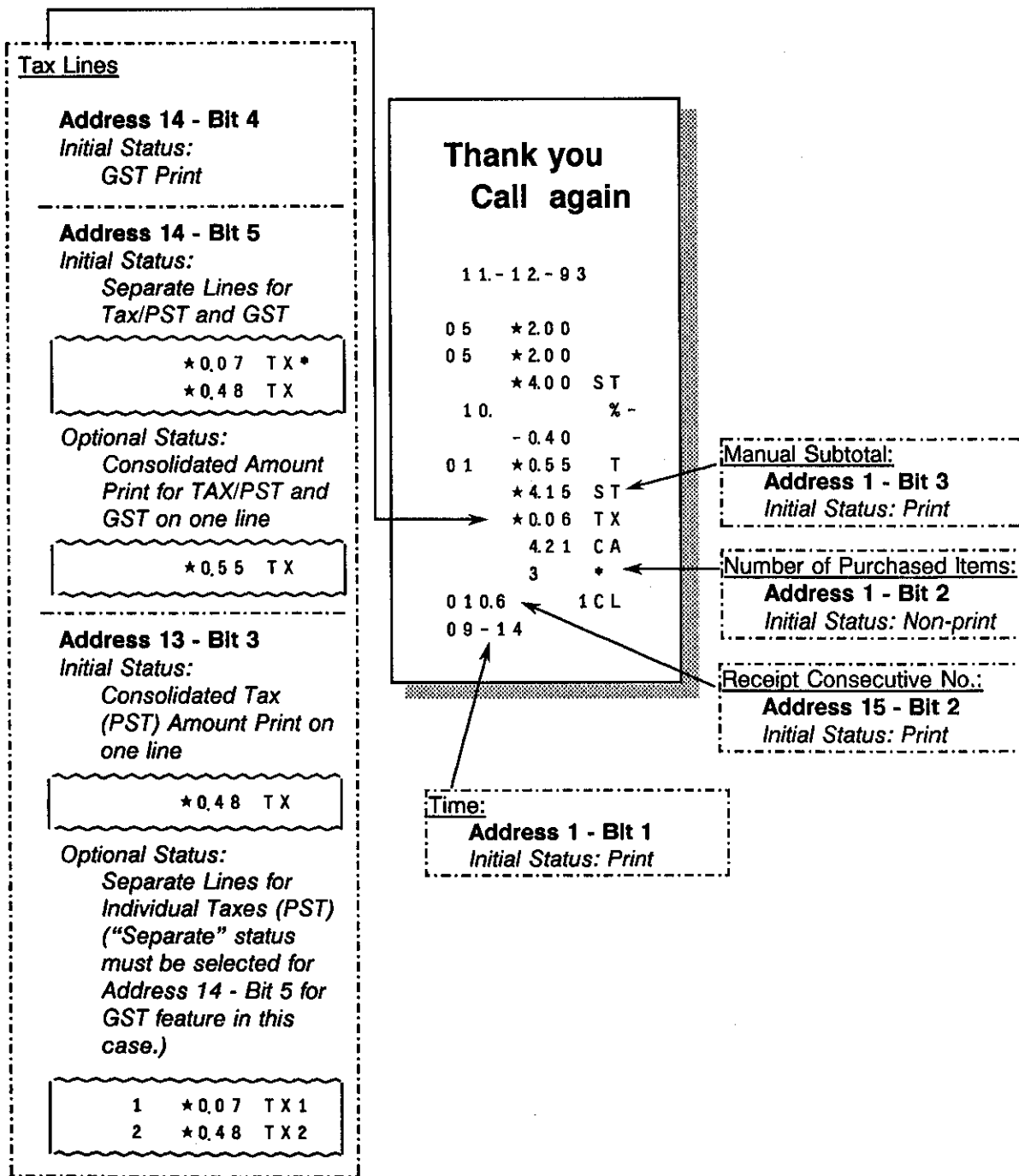
Thank you
Call again

11-12-93

    *24.00 TL
010.7
09-15
    
```

Print/Non-print Options on Sale Receipts

The following are items that can be programmed to be printed or not on sale receipts. To change the print/non-print status, refer to Chapter "17. System Option Setting". For changing the print/non-print status of each item, further refer to the Address No. and Bit No. in the chapter.



16. Read and Reset Reports

This chapter describes the operation to take each report and its contents. The report function is one of the most beneficial features of this register. As sales data are entered, the register processes the data into appropriate totals and counters in the report memory. The reports are not only a form of sales data records but will also be a valuable guide to a more prosperous future of your store if you fully utilize and analyze them.

Programming Operations Relating to Reports

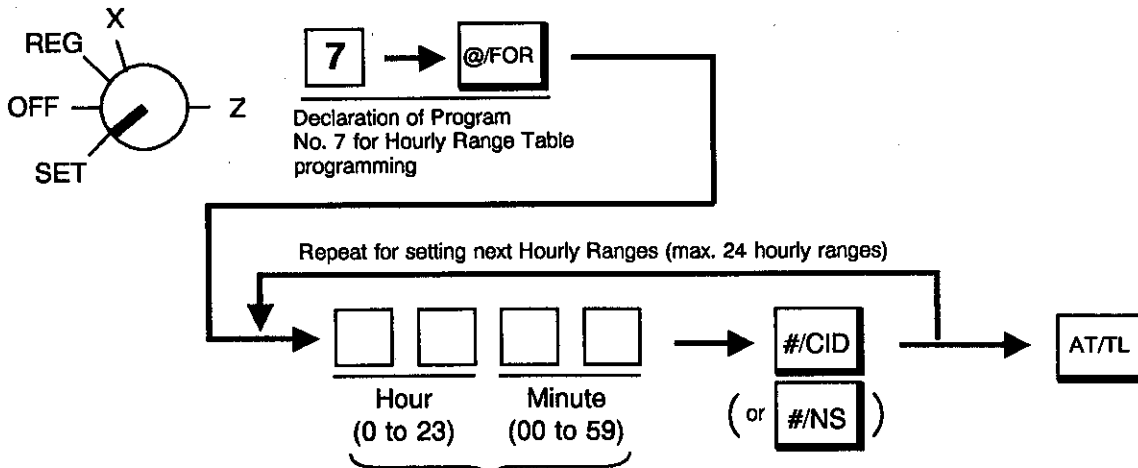
Programming Hourly Range Table

The "Hourly Sales Report" is available as part of the report function. However, sales data entered in **REG** mode are processed into Hourly Ranges only after programming an Hourly Range Table. If you have started operations on the register without this programming operation performed, the "Hourly Sales Report" cannot be taken. The Hourly Sales Report table must be programmed in order to obtain Hourly Sales Reports for the day and thereafter.

Condition: After Hourly Sales Reset
(refer to "NOTE on Condition" on page 20)

Programming Procedure:

Use the **MA Key** to turn the Control Lock to "SET".

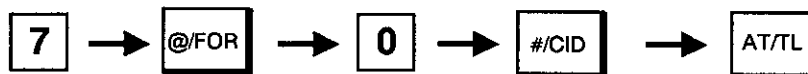


Enter the time that ends the Hourly Range, in the 24-hour system using the military time. (The time to start is the time entered for the preceding Hourly Range.)

(See NOTES 2, 3)

- NOTES 1. A maximum of 24 hourly ranges may be set.
- 2. Do not set an hourly range across 24:00, such as "from 23:00 to 1:00". Such setting does not cause an error in programming but the sales data will not be processed into that hourly range.

3. If an hour value of more than 23 or a minute value of more than 59 is set, it will not result in an error but the data will not be processed into that hourly range.
4. To change the table of hourly ranges once set, partially or entirely, do the entire setting operation over again.
5. To clear the hourly range table once set, operate in SET mode



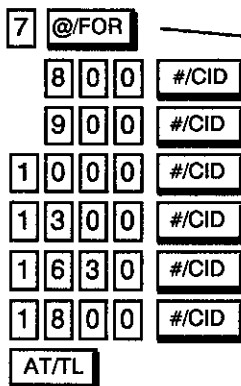
Example):

Hourly Range Table

up to 8:00
 8:00 to 9:00
 9:00 to 10:00
 10:00 to 13:00
 13:00 to 16:30
 1630 to 18:00

Key Operation

Control Lock: SET



**Thank you
Call again**

1 1 - 1 2 - 9 3
 0.7 *
 0 8 - 0 0
 0 9 - 0 0
 1 0 - 0 0
 1 3 - 0 0
 1 6 - 3 0
 1 8 - 0 0
 0 0 1.0
 0 8 - 5 1

Selecting Print/Non-print Items on Reports

The following table shows the items on reports that can be programmed to be printed or non-printed according to your store's requirements. For further details of programming, refer to Chapter "17. System Option Setting". If you have started operations on the register without this programming operation performed, print or non-print status of each item is determined by the "Initial Status" in the following table. It is recommended, therefore, to change Print/Non-print status of each item after once taking all the reports.

Item	Initial Status Before Change	System Option Address No. - Bit No.
GT (Grand Total)	Print	Address 1 - Bit 4
Sum of Negative Departments	Non-print	Address 1 - Bit 6
Sum of All Departments	Non-print	Address 11 - Bit 2
Net Sale With Taxes	Print	Address 13 - Bit 1
Net Sale Without Taxes	Non-print	Address 13 - Bit 2
Receipt Consecutive No. on Journal or every Receipt	Print	Address 15 - Bit 2
Receipt Consecutive No. Resetting	Non-resettable	Address 15 - Bit 3

Taking Read and Reset Reports

Fundamental Concepts of Various Types of Reports

Four types of Reports are available in connection with the Control Lock positions and the periods of data accumulation:

Daily Read Report: It can be issued at any time and any number of times during the day. It allows to read the sales data recorded up to the moment since the corresponding Reset Report was issued yesterday. Taking this type of report will not affect any sales data in the report memory.

Daily Reset Report: The contents and format are the same as the Daily Read Report. However, it should be issued only once at the end of the day usually after closing the store. It is the "final" report that should be kept in file. Taking this type of report will clear all the resettable totals and counters in the report memory after the report is issued.

Periodical Read Report: It can be issued at any time and any number of times during a certain period defined by the store (one week, one month, etc.). Thus it allows to read the sales data accumulated up to the moment since the corresponding Reset Report was issued last time.

Periodical Reset Report: The contents and format are the same as the Periodical Read Report. However, it should be issued only once at the end of the defined period as the "final" report and be kept in file. Taking this type of report will clear all the resettable totals and counters in the report memory after the report is issued.

In addition, Read Reports (Daily or Periodical) are called "X" reports since the reports are taken with the Control Lock positioned to "X" and the header "X" is printed. Reset Reports (Daily or Periodical) are called "Z" reports, taken with the Control Lock positioned to "Z", printing the header "Z". Please also note the Reset Report Counter is printed on each Reset (Z) Report only. By this counter, you be sure that no illegal Reset Reports were taken between the one taken at the end of yesterday and the one taken now.

CAUTION: Whenever you turn the Control Lock to the "Z" position, be sure that you are taking Reset Reports (final reports) and that the sales data will be cleared by the operation to follow.

Report Taking Operation

Condition for printing Read Reports when the Receipt-format Option has been selected (Reset Reports will always be printed regardless of the following condition):

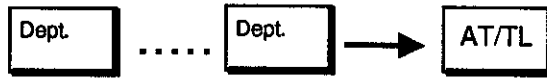
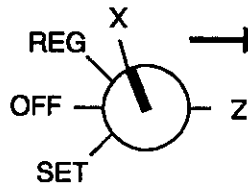
"R OFF" lamp must be extinguished. If it is illuminated, press the [LOG/RECEIPT] key to extinguish the lamp.

(When the Journal-format Option has been selected, reports will be printed regardless of the "R OFF" lamp status.)

Daily Read Reports:

Daily Individual Department Read (X) Report

Use MA Key.



See page 78 for sample format.

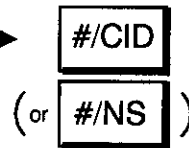
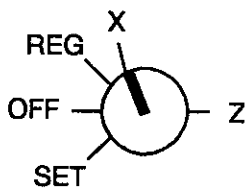
Depress desired Department Keys, one by one. The daily sales data of the department is printed as its department key is pressed.

To obtain the total of all the departments read in this report and to end this reading report.

NOTE: This report must be taken, if necessary, before the Daily Financial Reset (Z) Report is taken. Otherwise, all the departments data are reset by the Financial Reset.

Media Sales and In-drawer Read (X) Report

Use MA Key.



The drawer opens.



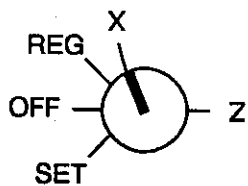
See page 78 for sample format.

Each Media Sales Total, Each Media-in-drawer Amount

NOTE: This report must be taken, if necessary, before the Daily Financial Reset (Z) Report is taken. Otherwise, all the media data are reset by the Financial Reset.

Daily Financial Read (X) Report

Use MA Key.



The drawer opens

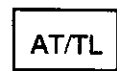
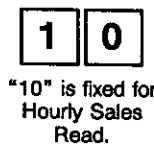
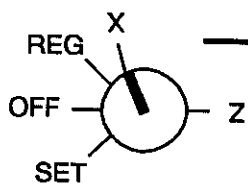


See page 79 for sample format.

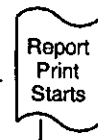
Department Sales Data & Financial Sales Data

Daily Hourly Sales Read (X) Report

Use MA Key.



The drawer does not open.

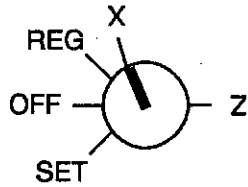


See page 82 for sample format.

Sales data in each Hourly Range. (Refer to the "Programming Hourly Range Table" on the first page of this chapter.)

All PLU Sales Read (X) Report

Use MA Key.



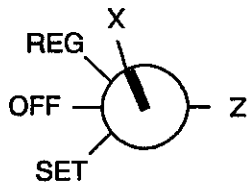
The drawer does not open.

See page 83 for sample format.

Sales data of all the PLUs with any sales data recorded.
(PLUs with zero sales data are skipped.)

Zone PLU Sales Read (X) Report

Use MA Key.



PLU Code that starts the required zone (range) for this report (max. 3 digits).



PLU Code that ends the zone (max. 3 digits).



The drawer does not open.

See page 83 for sample format.

The Start PLU Code must be equal to or smaller than the End PLU Code. When equal, the data of only one PLU is read.

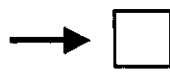
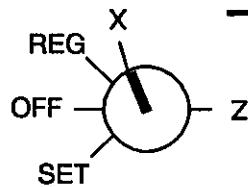
Sales data of the PLUs of the codes in the range of the designated zone.
(PLUs with zero sales data are skipped.)

Daily Cashier Read (X) Report (option; refer to Chapter 18)

(available when Cashier Signing Method has been selected)

(operable in signed-OFF condition only)

Use MA Key.



Cashier Code 1 to 4 (assigned by the store) of the cashier whose data is to be read.



The drawer opens



See page 84 for sample format.

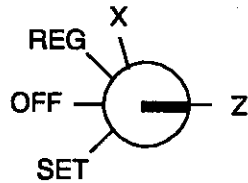
If an error occurs:
• Is the register signed-OFF?
• Wrong code?

Sales data recorded by the cashier

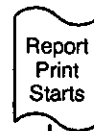
Daily Reset Reports:

Daily Financial Reset (Z) Report

Use MA Key.



The drawer opens

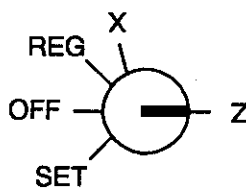


See page 79 for sample format.

Department Sales Data & Financial Sales Data

Daily Hourly Sales Reset (Z) Report

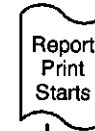
Use MA Key.



"10" is fixed for Hourly Sales Reset.



The drawer does not open.

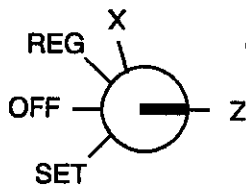


See page 82 for sample format.

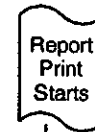
Sales data in each Hourly Range.
(Refer to the "Programming Hourly Range Table" on the first page of this chapter.)

All PLU Sales Reset (Z) Report

Use MA Key.



The drawer does not open.

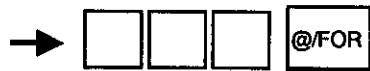
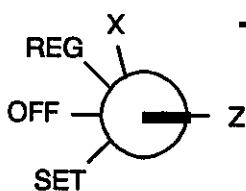


See page 83 for sample format.

Sales data of all the PLUs with any sales data recorded.
(PLUs with zero sales data are skipped.)

Zone PLU Sales Reset (Z) Report

Use MA Key.



PLU Code that starts the required zone (range) for this report (max. 3 digits).



PLU Code that ends the zone (max. 3 digits).

The drawer does not open.



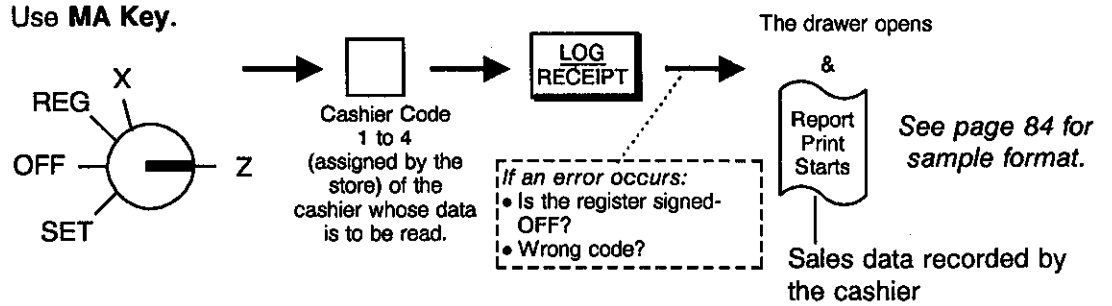
See page 83 for sample format.

The Start PLU Code must be equal to or smaller than the End PLU Code. When equal, the data of only one PLU is read.

NOTE: If this reset report is necessary, it must be taken before the "All PLU Reset Report" (i.e., all the PLUs sales data are reset by All PLU Reset).

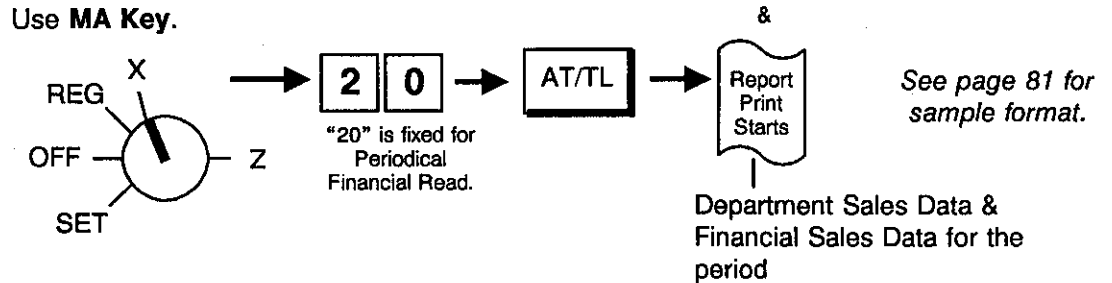
Sales data of the PLUs of the codes in the range of the designated zone.
(PLUs with zero sales data are skipped.)

Daily Cashier Reset (Z) Report *(option; refer to Chapter 18)*
(available when Cashier Signing Method has been selected)
(operable in signed-OFF condition only)

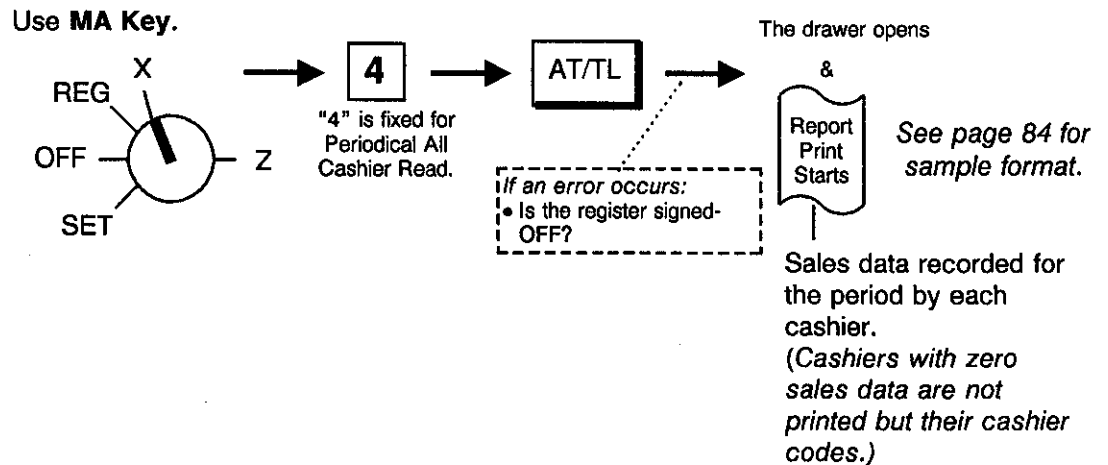


Periodical Read Reports:

Periodical Financial Read (X) Report



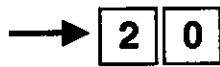
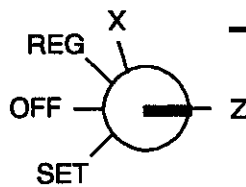
Periodical Cashier Read (X) Report *(option; refer to Chapter 18)*
(available when Cashier Signing Method has been selected)
(operable in signed-OFF condition only)



Periodical Reset Reports:

Periodical Financial Reset (Z) Report

Use MA Key.

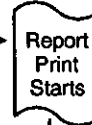


"20" is fixed for
Periodical
Financial Reset.



The drawer opens

&



See page 79 for
sample format.

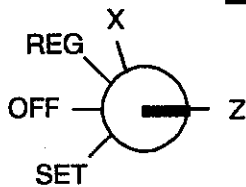
Department Sales Data &
Financial Sales Data for the
period

Periodical Cashier Reset (Z) Report (option; refer to Chapter 18)

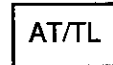
(available when Cashier Signing Method has been selected)

(operable in signed-OFF condition only)

Use MA Key.

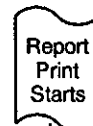


"4" is fixed for
Periodical All
Cashier Reset.



The drawer opens

&



See page 84 for
sample format.

Sales data recorded for
the period by each
cashier.
(Cashiers with zero
sales data are not
printed but their cashier
codes.)

If an error occurs:
• Is the register signed-
OFF?

Report Sample Format

On the following pages are sample formats of respective reports. In referring to those formats, please note the following conditions:

- In each report format, all the items that can be programmed to print are placed. (Refer to "Selecting Print/Non-print Items on Reports" on the second page of this chapter for further information.)
- The data contents are merely examples to show the report format. The numeric data may not balance correctly. (Refer to the "Memory Balance" attached to the Daily Financial Read or Reset Report.) Neither the programmed contents nor sales data placed as examples in various operating procedures in Chapter "15. Setting Preparation of Each Key and Transaction Entries" or any other chapters are related to the numeric data in the report formats.

Daily Individual Department Read Report

Key Operation Example:

Control Lock: X

Depress **Dept. 1**

Depress **Dept. 2**

Depress **Dept. 3**

Depress **Dept. 4**

Depress **AT/TL**

**Thank you
Call again**

11-12-93

X

01 1CU

1

*1234

02 1CU

1

*5678

03 1CU

1

*1000000

04 1CU

1

-200

3. TL

*10067.12 TL

0322

16-30

Report Type Symbol (Daily Read Report only)

Dept. 1 Sales Data: Customer Count
Item Count
Amount

Dept. 2 Sales Data: Customer Count
Item Count
Amount

Dept. 3 Sales Data: Customer Count
Item Count
Amount

Dept. 4 Sales Data: Customer Count
Item Count
Amount

Total of all the Depts read above: Item Count
Amount

Receipt Consecutive No.
Current Time

Daily Media Sales & In-drawer Read Report

**Thank you
Call again**

11-12-93

X

19CU

*1335639 TL

*1334358 ID

2CK

*1050 ID

2CH

*831 ID

0203

13-42

Report Type Symbol (Daily Read Report only)

Total Customer Count
All Media Sales Amount
Cash-in-drawer Amount
Check Count
Check-in-drawer Amount
Charge Count
Charge-in-drawer Amount

Financial Read or Reset Report (Daily or Periodical)

**Thank you
Call again**

11-12-93

Date

Z

Report Type Symbol

X: Daily Read
Z: Daily Reset
20X: Periodical Read
20Z: Periodical Reset

*13,405.71 GT

Grand Total (non-resettable) (Initial Status: Print)

*506. GS

Gross Sale: Item Count

*13,405.71 GT

Amount

01 10 CU

Dept. 1 Sales: Customer Count

21

Item Count

*4275

Amount

02 4 CU

Dept. 2 Sales: Customer Count

63

Item Count

*3106

Amount

03 8 CU

Dept. 3 Sales: Customer Count

384

Item Count

*12,075.50

Amount

04 2 CU

Dept. 4 Sales: Customer Count

2

Item Count

-200

Amount

05 1 CU

Dept. 5 Sales: Customer Count

3

Item Count

*150

Amount

06 0 CU

Dept. 6 Sales: Customer Count

0

Item Count

*000

Amount

07 1 CU

Dept. 7 Sales: Customer Count

1

Item Count

*1000

Amount

08 0 CU

Dept. 8 Sales: Customer Count

0

Item Count

*000

Amount

09 1 CU

Dept. 9 Sales: Customer Count

4

Item Count

-1200

Amount

10 0 CU

Dept. 10 Sales: Customer Count

0

Item Count

*000

Amount

472 TL

Sum of All Depts.: Item Count

*12,146.81 TL

Amount

(Initial Status: Non-print)

1 %+
 *0.95 %+
 472 NS
 *12,147.76 NS
 0.00 TX
 *1,206.90 TX1
 *2.53 TX2
 *0.00 TX3
 472 NS
 *13,357.19 NS
 1 %-
 *0.40 %-
 1 -
 *0.40 -
 19 CU
 *13,356.39 TL
 16 CU
 *13,340.82 CA
 1 CU
 *7.26 CK
 2 CU
 *8.31 CH
 2 RA
 *12.50 RA
 3 PO
 *6.50 PO
 *13,343.58 ID
 2 CK
 *10.50 ID
 2 CH
 *8.31 ID
 2 VD
 *3.03 VD
 2 VD2
 *11.00 VD2
 1 VD3
 *0.15 VD3
 1 VD4
 *18.70 VD4
 1 %-
 *0.32 %-
 6
 -14.00
 5 RT
 *1.30 RT
 0.17 TX-
 0.00 TT

Percent Charge Count
 Amount
 Net Sale Without Tax: Item Count] (Initial Status:
 Amount Non-print)
 GST Amount (Initial Status: Non-print)
 Tax(PST) 1 Amount
 Tax(PST) 2 Amount
 Tax 3 (Manual Tax) Amount
 Net Sale With Tax: Item Count] (Initial Status:
 Amount Print)
 Percent Discount on Subtotal: Count
 Amount
 Dollar Discount: Count
 Amount
 Total Customer Count
 All Media Sales Amount
 Cash Sales: Customer Count
 Amount
 Check Sales: Customer Count
 Amount
 Charge Sales: Customer Count
 Amount
 Received-on-Account Payment: Count
 Amount
 Paid Out: Count
 Amount
 Cash-in-drawer Amount
 Check Count
 Check-in-drawer Amount
 Charge Count
 Charge-in-drawer Amount
 Item Correct: Count
 Amount
 Void: Count
 Amount
 Misc. Void: Count] (Item Corr and Void on other items
 Amount than Departments and PLUs.
 All Void: Count
 Amount
 Percent Discount on Item: Count
 Amount
 Sum of Negative Departments: Item Count] (Initial Status:
 Amount Non-print)
 Returned Merchandise: Item Count
 Amount
 Negative or Returned Tax Amount
 Total of Sale Amount subject to GST

*These items are
 printed on Daily
 Reports only but
 not on Periodical
 Reports.*

1			
*1206902	TT		Total of Sale Amount subject to Tax(PST) 1
2			
*5050	TT		Total of Sale Amount subject to Tax(PST) 2
1	EX		Total Tax Exempt Customer Count
000	EX		GST Exempt Amount
*500	EX1		Tax(PST) 1 Exempt Amount
*500	EX2		Tax(PST) 2 Exempt Amount
1			No-sale Count; -- This item is printed on Daily Reports only.
0001Z			Reset Count (of each Reset Report); <i>prints on Reset Reports only</i>
0207			Receipt Consecutive No.
13-53			Current Time

-- Memory Balance --

Grand Total = Sum of Daily Gross Sales

Gross Sale = (Sum of All Depts) + (Sum of Tax/PST 1 & 2) + (Percent Charge)
 + (Percent Discount on Item) + (Sum of Negative Depts) + (Item Correct)
 + (Void) + (Returned Merchandise) + (Negative Tax) + (GST) + (All Void)

Net Sale With Tax

= (Sum of All Depts) + (Sum of Tax/PST 1 & 2) + (Percent Charge)
 + (GST)
 = (Gross Sale) - (Percent Discount on Item) - (Sum of Negative Depts)
 - (Item Correct) - (Void) - (Returned Merchandise) - (Negative Tax)
 - (All Void)

All Media Sales

= (Net Sale With Tax) - (Percent Discount on Subtotal) - (Dollar Discount)
 = (Cash Sales) + (Check Sales) + (Charge Sales)

Sum of All Hourly Range Sales = Net Sale With Tax

Daily Hourly Sales Read or Reset Report

**Thank you
Call again**

1 1 - 1 2 - 9 3

1 0 Z

★ ★

0 8 - 0 0

0 9 - 0 0

1 0 C U

★ 1 3.2 7 3.3 8

1 0 - 0 0

9 C U

★ 8 3.8 1

1 3 - 0 0

1 6 - 3 0

1 8 - 0 0

0 0 0 1 Z

0 2 0.4

1 3 - 4 3

10X: Daily Read
10Z: Daily Reset

Report Type Symbol

Sales Data in Hourly Range from 18:00 yesterday to 8:00 ... No sales recorded
 Sales Data in Hourly Range from 8:00 to 9:00 ... No sales recorded
 Customer Count Sales Data in Hourly Range from 9:00 to 10:00
 Net Sale With Tax

Customer Count Sales Data in Hourly Range from 10:00 to 13:00
 Net Sale With Tax

Sales Data in Hourly Range from 13:00 to 16:30 ... No sales recorded
 Sales Data in Hourly Range from 16:30 to 18:00 ... No sales recorded
 Reset Count of this Reset Report (*printed on Reset Reports only*)

Daily PLU Read or Reset Report (All or Zone)

Daily All PLU Read or Reset Report

**Thank you
Call again**

11 - 12 - 93

Z

PL 0 5.0
3
* 1.5 0

PL 0 8.0
4
- 1 2.0 0

PL 1 0.0
6
* 6 0.0 0

9. T L
* 4 9.5 0 T L
0 0.0 1 Z

0 2 0.1
1 3 - 3 0

X: Daily Read
Z: Daily Reset

Report Type Symbol

PLU Code 50 (disregard the decimal point in the code):

Sale Item Count

Sale Amount

PLU Code 80:

Sale Item Count

Sale Amount

PLU Code 100:

Sale Item Count

Sale Amount

Total of all PLUs: Sale Item Count (Positive PLUs only)

Amount (Positive PLUs - Negative PLUs)

Reset Count of PLU Reset Report (including Zone Reset): *printed on Reset Reports only*

Daily Zone PLU Read or Reset Report

The format is the same as "All PLU Read or Reset Report" above. The only difference is that the Zone Read or Reset Report outputs only the PLUs in the zone designated by the key operation to take the report.

Cashier Read or Reset Report (Daily or Periodical)

Daily Cashier Read or Reset Report

```

Thank you
Call again

11.-12.-93

          Z
**        2 C L
          4 C U
        31.  G S
    *104.30 G S
      00.01 Z
020.5
13-43
    
```

X: Daily Read
Z: Daily Reset

Report Type Symbol

Cashier Code (1 to 4)

Gross Sale: Customer Count

Item Count

Amount

Reset Count of each cashier's Reset Report (*prints on Reset Reports only*)

Periodical Cashier Read or Reset Report

```

Thank you
Call again

11.-12.-93

          4 Z
**        1 C L
          15 C U
        475.  G S
    *13.301.41 G S
**        2 C L
          4 C U
**       31.  G S
    *104.30 G S
**        3 C L
**        4 C L
          00.01 Z
020.6
13-43
    
```

4X: Periodical All Cashier Read
4Z: Periodical All Cashier Reset

Report Type Symbol

Sales Data by Cashier 1 (same as in the Daily Report above)

Sales Data by Cashier 2 (same as in the Daily Report above)

Sales Data by Cashier 3 (no sales are recorded in this case)

Sales Data by Cashier 4 (no sales are recorded in this case)

Reset Count of this Reset Report (*prints on Reset Reports only*)

17. System Option Setting

This chapter is provided for your selections of the register's basic functions according to the market and your requirements, some of which are already indicated for reference in other chapters as to print/non-print items, key functions, etc.

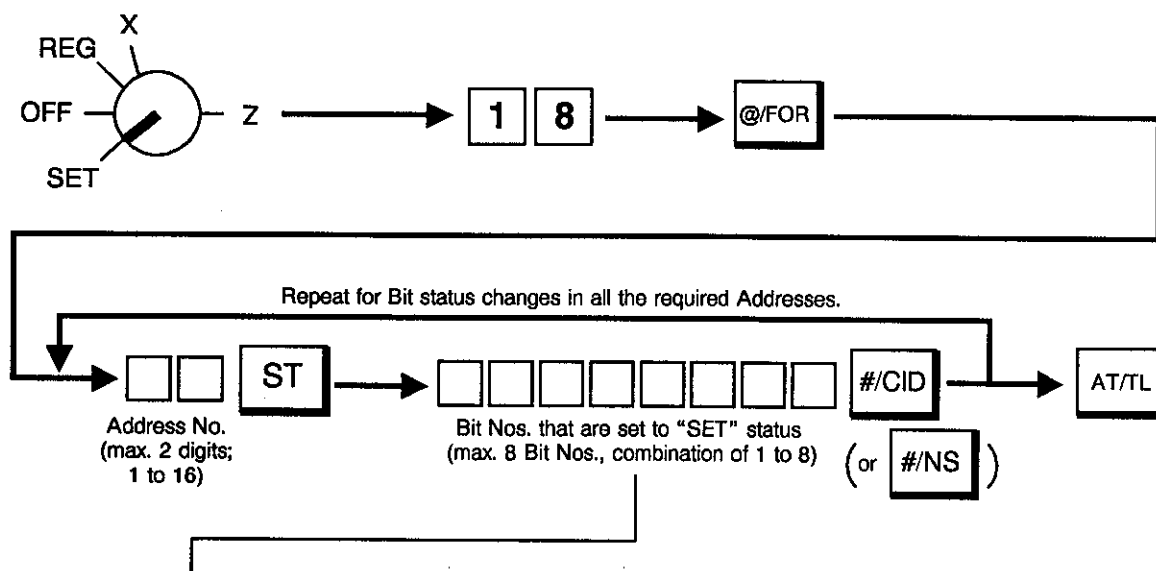
Programming Procedure

The System Options are divided into 11 addresses (Addresses 1 to 16; Addresses 4, 5, 9, 10 and 12 are vacant) and each address is further divided into a maximum of 8 bits (Bits 1 to 8). Each Address table is placed on the following pages.

Condition: After Daily Financial Reset
(refer to "NOTE on Condition" on page 20)

Programming Procedure:

Use the MA Key to turn the Control Lock to "SET."



Enter a maximum of eight-digit number composed of Bit Nos. whose status must be set to the "SET" status in the Address. If there is no Bit Nos. to be set to the "SET" status, enter "0" for the Address.

- Examples)
- To SET Bit 2 only Enter 2.
 - To SET Bits 2 and 3 Enter 23.
 - To SET all the Bits Enter 12345678.
 - To RESET all the Bits Enter 0.

To change any Bit in an Address, enter the Address No. and enter all the SET Bit Nos again. If a Bit No. is not included in the SET Bit Nos, the Bit will be RESET.

NOTES 1. Any Bit No. shaded and filled with "-- vacant --" in the Address tables on the following pages will be disregarded even if it is SET or RESET. (However, if ever SET, it will not result in an error.)

2. The Initial Status of each Bit is indicated by a dotted frame such as:

If you have never changed the Bit statuses in the Address before, the Initial Status is active. Therefore, only the Bit status changes of the required Addresses may be entered. If an All Memory Clear is operated (refer to Chapter "23. Status Clear and Memory Clear Operations"), all the Bits in all the Address automatically regain the Initial Status.

Programming Example) To select the following options:

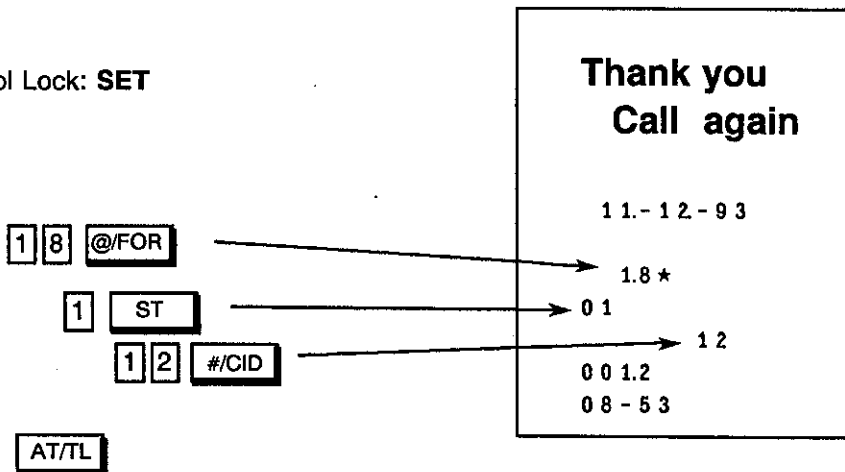
Address 1 (refer to the next page)

Bit 1: Time NON-PRINT (SET status)

Bit 2: Purchased Item Count NON-PRINT (SET status)

Other Bits are to be all RESET (PRINT)

Control Lock: SET



Address: **1** Initial SET Bit Nos. **2 6**
 (Non-print Options 1) Your Selection

Bit No.	Content	Selective Status	
		RESET	SET
1	Time on Journal or Every Receipt in REG, X, Z, SET modes	PRINT	NON-PRINT
2	Purchased Item Count on Sale Receipts in REG mode	PRINT	NON-PRINT
3	Manual Subtotal on Sale Receipts in REG mode	PRINT	NON-PRINT
4	GT (Grand Total) on Financial Reports (in X and Z modes)	PRINT	NON-PRINT
5	-- vacant --		
6	Sum of Negative Department Data on Financial Reports (in X and Z modes)	PRINT	NON-PRINT
7, 8	-- vacant --		

Address: **2** Initial SET Bit Nos. **7 8**
 (Optional Functions 1) Your Selection

Bit No.	Content	Selective Status	
		RESET	SET
1	Fraction Rounding Process on Quantity Extension or % Calculations	Round OFF	ROUND UP
2	Fraction Rounding Process on Quantity Extension or % Calculations	Follow Bit 1 status.	ROUND DOWN
3	Credit Balance (over-subtraction of the sale by [DOLL DISC] or [VOID] keys) in REG mode	PROHIBITED	ALLOWED
4	Obtaining Taxable Total (sale total including taxes) by [TXBL TL] or [ST] key before finalizing each sale	NOT COMPULSORY	COMPULSORY
5, 6	-- vacant --		
7	Receipt or Journal (Printer Format)	Receipt-format	Journal-format
8	Cashier Identifying Function	Cashier Signing Method	Nothing

Supplementary Description:

- Bit 1 & Bit 2: If both RESET, ROUND OFF status is obtained.
 If both SET, Bit 2 status prevails, i.e., ROUND DOWN.
 (Fraction Rounding Process on tax/PST calculations is fixed to ROUND UP, out of the application of the process selected here. As for GST, see Address 14 - Bits 2 & 3)
- Bit 3: The [RTN MDSE] key is operable to turn the sale into negative regardless of this bit status selection.

Address: **6** Initial SET Bit Nos. → 0
 ([AT/TL] Key Function) Your Selection →

Bit No.	Content	Selective Status	
		RESET	SET
1	Tender and Total Functions in finalizing a sale in REG mode	TENDER or TOTAL	TENDER only
2 to 8	-- vacant --		

Supplementary Description:

- Bit 1: RESET status ... The key functions as Tender Key with a prior amount entry or as Total Key without any amount entry.
 SET status ... The key always requires a tender amount entry.

Address: **7** Initial SET Bit Nos. → 1 3
 ([CHK TND] Key Function) Your Selection →

Bit No.	Content	Selective Status	
		RESET	SET
1	Tender and Total Functions in finalizing a sale in REG mode	TENDER or TOTAL	TENDER only
2	-- vacant --		
3	Cashing with no purchase, using this key.	PROHIBITED	ALLOWED
4	Over-tendering (tendering an amount larger than the sale total, resulting in calculation of change due)	ALLOWED	PROHIBITED
5 to 8	-- vacant --		

Supplementary Description:

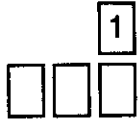
- Bit 1: Refer to the "Supplementary Description" of Bit 1 attached to Address 6 above.
 Bit 3: RESET status ... Customers' checks cannot be cashed outside a sale.
 SET status ... Customers' checks can be cashed with no purchase outside a sale.
 Bit 4: This Bit status selection is effective only in tendering operation.
 SET status ... If this bit is SET and also Address 11 - Bit 1 is SET (for Short-tendering Prohibited), an amount equal to the sale total is always required for tendering.

Address: **8**

([Chg] Key Function)

Initial SET Bit Nos. →

Your Selection →



Bit No.	Content	Selective Status	
		RESET	SET
1	Tender and Total Functions in finalizing a sale in REG mode	TENDER or TOTAL	TOTAL only
2	-- vacant --		
3	Cashing with no purchase, using this key	PROHIBITED	ALLOWED
4	Over-tendering (tendering an amount larger than the sale total, resulting in calculation of change due): effective only when Bit 1 is RESET	ALLOWED	PROHIBITED
5 to 8	-- vacant --		

Supplementary Description:

- Bit 1: RESET status ... The key functions as Tender Key with a prior amount entry or as Total Key without any amount entry.
 SET status ... The key functions as Total Key only.
- Bit 3: RESET status ... Cashing with no purchase is prohibited.
 SET status ... Cashing with no purchase is allowed outside a sale
- Bit 4: This Bit status selection is effective only in tendering operation and only when Bit 1 is RESET.
 SET status ... If this bit is SET and also Address 11 - Bit 1 is SET (for Short-tendering Prohibited), an amount equal to the sale total is always required for tendering.

-- Addresses 9, 10 are vacant. --

Address: **1** **1**

(Optional Functions 2)

Initial SET Bit Nos. →

6 **8**

Your Selection →

Bit No.	Content	Selective Status	
		RESET	SET
1	Short-tendering using any media key. (applicable to [AT/TL], [CHK TND], [Chg])	ALLOWED	PROHIBITED
2	Sum of all Departments on Financial Reports	NON-PRINT	PRINT
3, 4	-- vacant --		
5	Electronic Journal Function	NON-ACTIVE	ACTIVE
6	Electronic Journal is automatically issued after taking a Daily Financial Reset Report.	NON-ACTIVE	ACTIVE
7	IPD (Items Print Detail) or INPD (Items Not Print Detail) on Electronic Journal	IPD	INPD
8	Electronic Journal memory Warning Alarm	NON-ACTIVE	ACTIVE

Supplementary Description:

Bit 5: When the SET status (Electronic Journal Active) is selected, the following features are applied:

- 1) The sales entries in the "REG" mode are recorded in the Electronic Journal Memory.
- 2) Both receipt-format and journal-format are recorded on the Electronic Journal.
- 3) When the Electronic Journal buffer becomes full, only the finalization operation is available.
- 4) When the remaining number of lines to be printed in the Electronic Journal buffer becomes 300 or less, the "ALM" lamp illuminates after the current sale is finalized. The lamp is extinguished by a numeric entry or by pressing the [C] key.

Bit 7: If SET status is selected, the details of the dept/PLU entries are not stored in the Electronic Journal buffer. However, the returned merchandise, item correct, negative depts/PLU and void are stored.

Bit 8: If SET status is selected, the alarm beeps for about two seconds after the current sale is finalized when the remaining number of lines to be printed in the Electronic Journal buffer becomes 300 or less.

-- Address 12 is vacant. --

Address: 1 3
 (Non-print Options 2)

Initial SET Bit Nos. 2
 Your Selection

Bit No.	Content	Selective Status	
		RESET	SET
1	"Net Sale With Tax" Line on Financial Reports	<input checked="" type="checkbox"/> PRINT	<input type="checkbox"/> NON-PRINT
2	"Net Sale Without Tax" Line on Financial Reports	<input type="checkbox"/> PRINT	<input checked="" type="checkbox"/> NON-PRINT
3	Tax(PST) Amount Line(s) on Sale Receipts when Tax(PST) 1 and Tax(PST) 2 are programmed.	<input checked="" type="checkbox"/> CONSOLIDATED LINE (into one tax amount)	<input type="checkbox"/> SEPARATE PRINT LINES
4 to 8	-- vacant --		

Supplementary Description:

Bit 3: RESET status ... The tax amount line is only one, consolidating the amounts of the two taxes into one.
 SET status ... The amounts of the two taxes are printed on individual lines. This status selection is effective only when Address 14 - Bit 5 is SET in case of the GST feature (for GST separate print from PST).

Address: 1 4
 (GST Options) ... for CANADA

Initial SET Bit Nos. 4 5
 Your Selection

Bit No.	Content	Selective Status	
		RESET	SET
1	GST Feature (for Canada only)	<input checked="" type="checkbox"/> NOT ADOPTED (All bit status selections below are disregarded)	<input type="checkbox"/> ADOPTED
2	Fraction Rounding Process on GST Calculations.	<input checked="" type="checkbox"/> Follow Bit 3 status.	<input type="checkbox"/> ROUND UP
3	Fraction Rounding Process on GST Calculations.	<input checked="" type="checkbox"/> ROUND OFF	<input type="checkbox"/> ROUND DOWN
4	GST Amount Lines on Sales Receipts	<input type="checkbox"/> NON-PRINT	<input checked="" type="checkbox"/> PRINT
5	PST & GST Amount Lines Print Format on Sales Receipts (when Bit 4 is SET)	<input type="checkbox"/> CONSOLIDATED AMOUNT LINE	<input checked="" type="checkbox"/> SEPARATE LINES
6	Sale amount subject to PST calculation	<input checked="" type="checkbox"/> INCLUDING PST	<input type="checkbox"/> EXCLUDING PST
7, 8	-- vacant --		

Supplementary Description:

Bit 2 & Bit 3: If both RESET, ROUND OFF status is obtained.
 If both SET, Bit 3 status prevails, i.e., ROUND DOWN.
 (For Fraction Rounding Process on Quantity Extension and % calculations, see Address 2 - Bits 1 & 2. As for fraction rounding process on PST calculations, ROUND OFF status is fixed.)
 Bit 5: If SET status is selected, you can further select printing of PST1 and PST2 on one consolidated line or separate lines. (See Address 13 - Bit 3.)

Address: **1** **6**

Initial SET Bit Nos. →

2 **8**

(Optional Functions 1)

Your Selection →

Bit No.	Content	Selective Status	
		RESET	SET
1	Drawer-close before starting any operation	NOT COMPULSORY See NOTE below	Do not select this status. (See the description below.)
2	Number of times allowed for % (% + or % -) entries after once depressing [ST] during a sale	ANY NUMBER OF TIMES	ONLY ONCE
3 to 6	-- vacant --		
7	Date Setting and Print Order	Follow Bit 8 status.	Day-Month-Year
8	Date Setting and Print Order	Year-Month-Day	Month-Day-Year

Supplementary Description:

- Bit 1: RESET status ... Any operation is possible with the drawer kept open.
- SET status ... Since this model does not have a Drawer-close Sensor installed, do not select the SET status. If the SET status is selected, an error will result on starting any operation.
- Bit 2: RESET status ... Even when a % is entered after once obtaining a subtotal during a sale, another % entry is possible if preceded with a prior depression of the [ST] key.
- SET status ... A second % entry after once entering a % after a subtotal within a sale will cause an error.
- Bit 7 & Bit 8:
 - Both RESET ... Year-Month-Day order
 - Both SET ... Bit 7 status prevails, i.e., Day-Month-Year order.

18. Cashier Signing Operation (optional function)

The register will operate without any cashier identifying operation in the initial status. However, the register can be changed to require cashier signing for operating sale entries.

Programming Requirements

1. Install [LOG/RECEIPT] key (SFKC 127) on the keyboard. (Refer to Chapter 13.)
2. Select the RESET status (for Cashier Signing Method) for System Option Address 2 - Bit 8. (Refer to Chapter 17.)

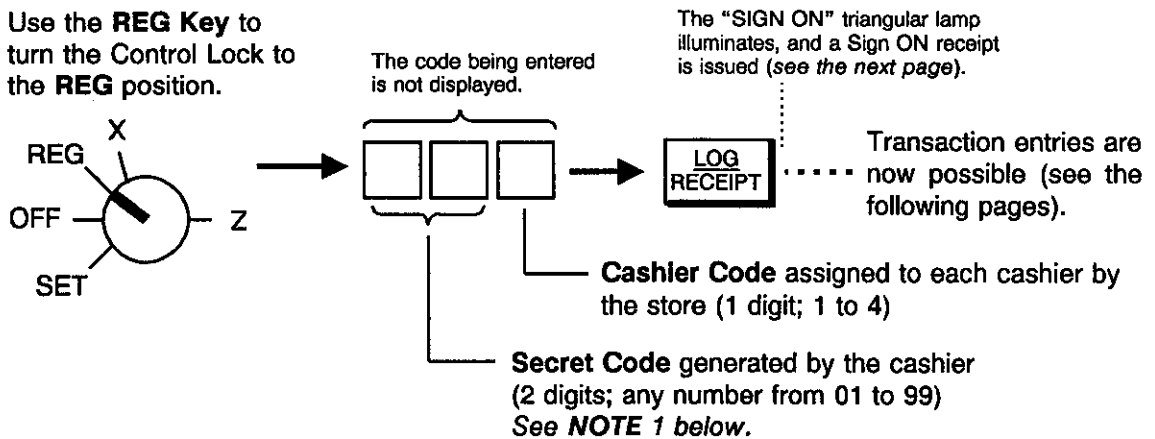
Cashier Sign ON & Sign OFF



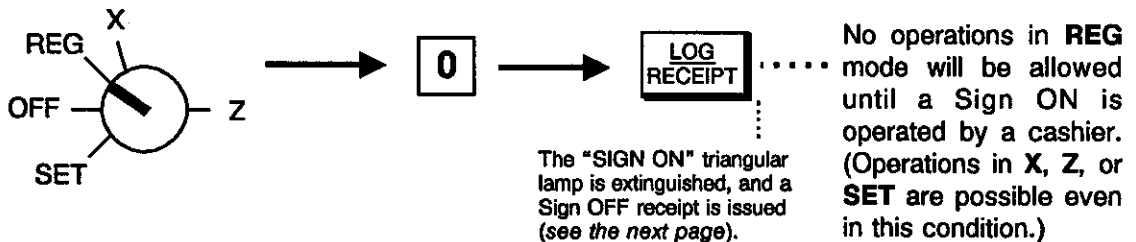
(LOG/RECEIPT Key)

A cashier needs to "sign ON" for starting transaction entries on the register and identifying the operator. The signed-ON condition is held until a "sign OFF" is operated. A cashier can sign ON only when the register is in the signed-OFF condition.

Sign ON (operable in signed-OFF condition)

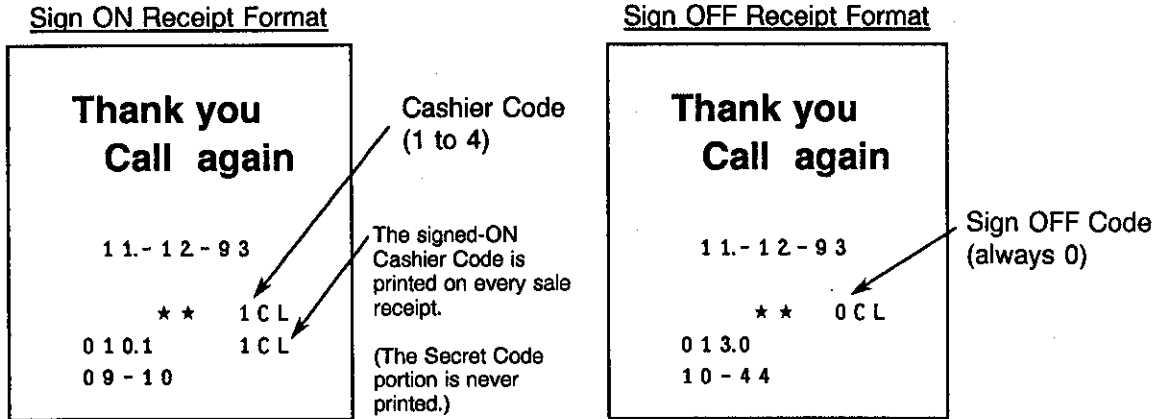


Sign OFF (operable in signed-ON condition)



NOTES 1. The two-digit Secret Code portion, once entered for a cashier's Sign ON, is set in the memory of the register. The Secret Code of the same cashier is checked every time his/her Sign ON is operated until the Daily Cashier Reset Report is taken at the end of the day. Then the Secret Code is reset and a new Secret Code entry will be allowed.
When the Secret Code is within the range of 01 to 09, it may be omissible to enter the preceding zero.

2. If the **[LOG/RECEIPT]** key is simply depressed without a prior numeric entry, the Receipt ON/OFF function is activated (refer to the first section in **Chapter 15**) but not Sign ON/OFF.



Cashier Reports

By adopting the Cashier Signing Method, Daily Cashier Read and Reset Reports (for individual cashiers) and Periodical Cashier Read and Reset Reports (for all the cashiers together in one report) are available. For the report taking operations and print format, see **Chapter 16**.

19. Electronic Journal Print (optional function)

Electronic Journal is a new state-of-the-art electronic feature that enables you to generate a detailed record (journal) of your sales activity without using high cost 2-ply paper. Via this feature the sales entries will be electronically stored in the ECR memory instead of printing at the time of each sales entry.

(Up to 2750 lines can be stored in the electronic journal memory.)

Programming Requirements

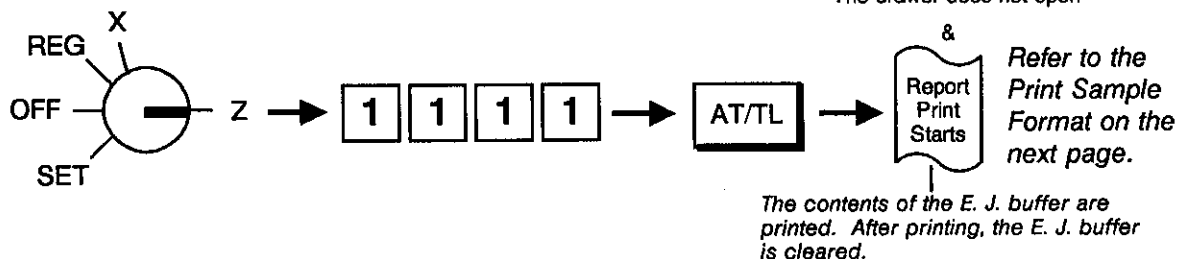
1. Select the SET status (Electronic Journal Function Active) for **System Option Address 11 - Bit 5.** (Refer to **Chapter 17.**)
2. Select the statuses for other bits regarding Electronic Journal according to your request (**System Option Address 11 - Bits 6 to 8.**)

Electronic Journal Report

The electronically stored sales entries will automatically print out following the taking of the Daily Financial Reset Report (initial setting). You can select to initiate printing of the Electronic Journal via a manual operation.

Operation

Use MA Key.

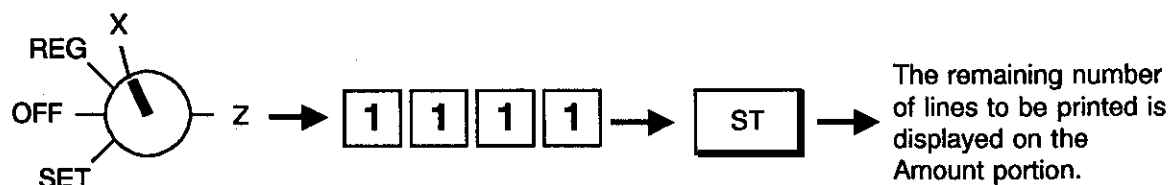


Reading of the Remaining Lines of E. J. Memory

This operation is used to display the remaining number of lines to be printed. The remaining number of lines is displayed on the Amount portion of the display.

Operation

Use MA Key.



NOTE: When the remaining number of lines to be printed becomes 300 or less, the "ALM" lamp illuminates after finalizing the current sale. (The alarm beeps according to the setting.) When the buffer memory becomes full, a subsequent entry is prohibited and only the finalization operation is available.

WARNING: Electronically stored Journals could possibly be partially or completely lost in the event of serious hardware or other malfunctions. TEC and Dealers, Distributors, and Resellers will have no responsibility for financial or other damages arising from loss or damage to Electronic Journal information. When the Electronic Journal feature is utilized, it will be the users responsibility to ensure the security of the collected data.

Print Sample Format of Electronic Journal

**Thank you
Call again**

11-12-93

Z
 ** 1CL
 010.1 1CL
 09-10
 * NS
 010.2 1CL
 09-10
 15#
 *10.00 RA
 * 2.50 RA
 *12.50 CA
 010.3 1CL
 09-10
 * 3.00 PO
 * 2.00 PO
 * 0.15 PO
 * 0.15 VD
 * 1.50 PO
 * 6.50 TL
 010.4 1CL
 09-11

02 * 4.50 T
 14 x
 0.30 @
 03 * 4.20 T
 2.00
 *10.00 T
 *18.70 ST
 ***** VD
 012.7 2CL
 10-42
 ** 0CL
 013.0
 10-44
 032.0
 18-10

20. Program Data Verification

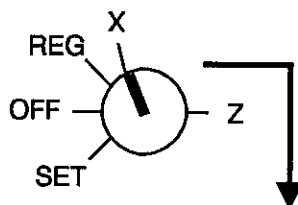
Whenever programming operations are performed, it is recommended to issue Program Verification receipts to check the programmed data before entering any other operation.

Operating Procedure

Condition: Any time outside a sale

Programming Procedure:

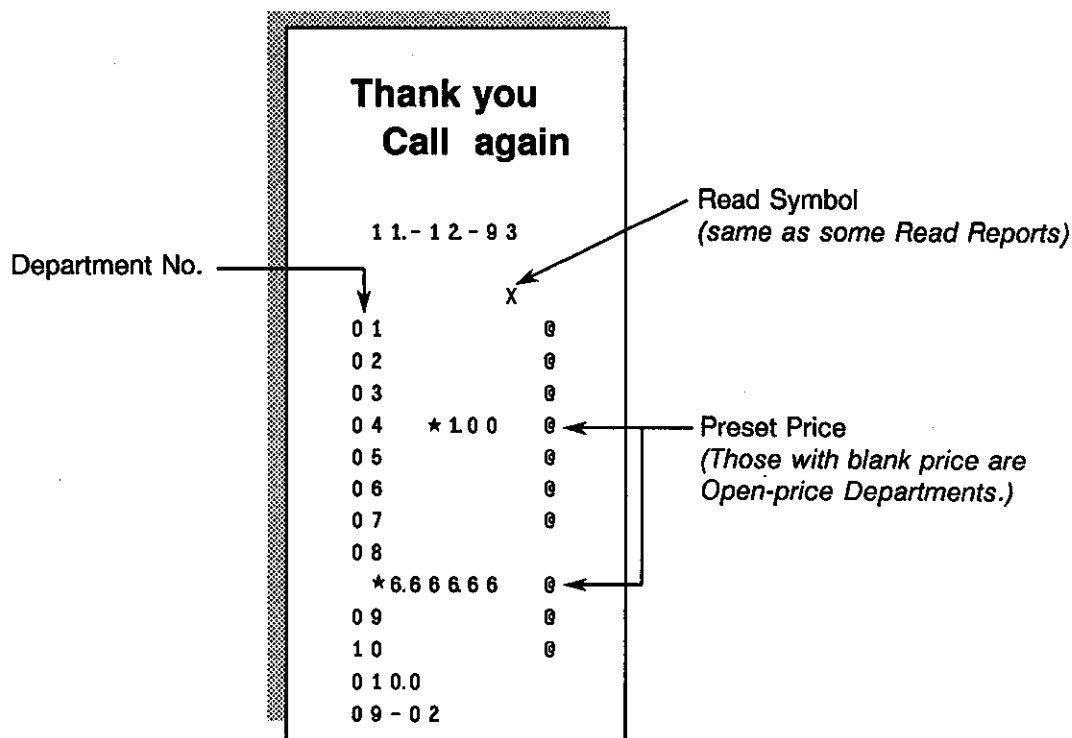
Use the **MA Key** to turn the Control Lock to "X".



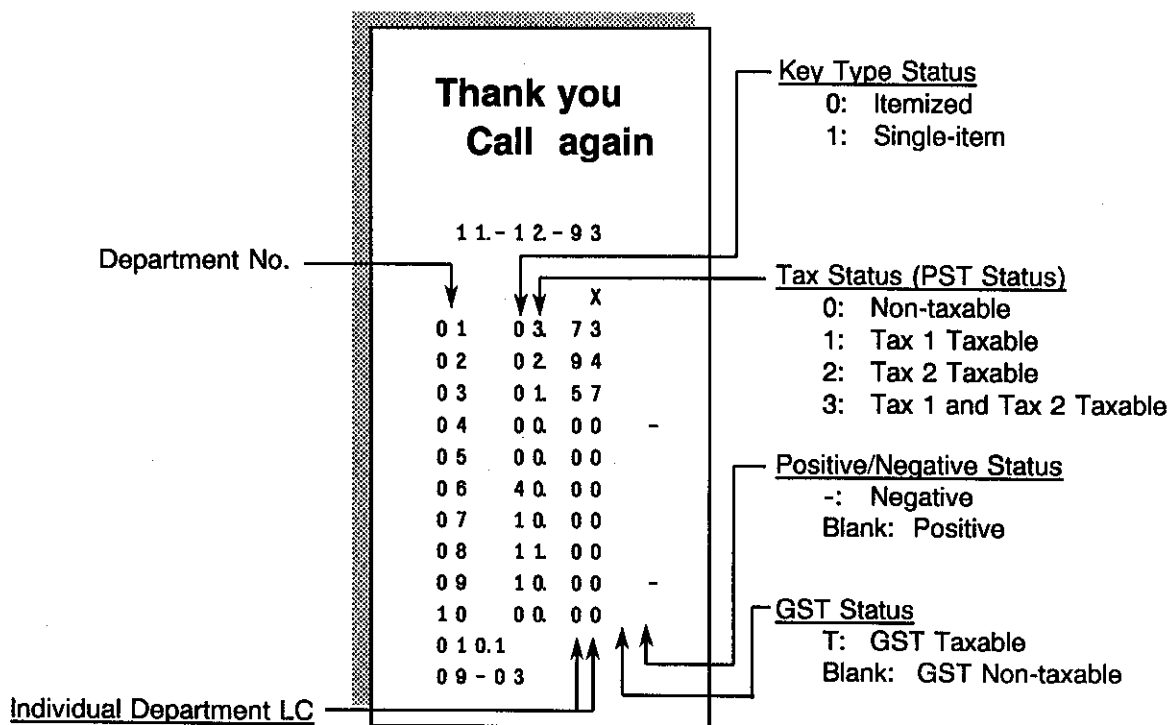
The "R OFF" lamp must be extinguished when the Receipt-format Option has been selected. If it is illuminated, press the [LOG/RECEIPT] key to extinguish the lamp.

			<u>Contents to be Printed for Verification</u>	<u>Format Page</u>
1	ST		<u>Department Preset Price Read:</u> Preset Price of each Department	100
2	ST		<u>Department LC and Status Read:</u> LC (Listing Capacity) and Status of each Department	100
3	ST		<u>PLU Table Read:</u> Preset Price and Link Department of each PLU	101
4	ST		<u>Other Programmed Data Read:</u> GST Rate, Non-taxable Amount Limit for CANADA Tax, % + & % - Preset Rates	101
9	ST		<u>System Option Read:</u> System Option Setting, Addresses 1 to 16	102

Department Preset Price Read



Department LC and Status Read



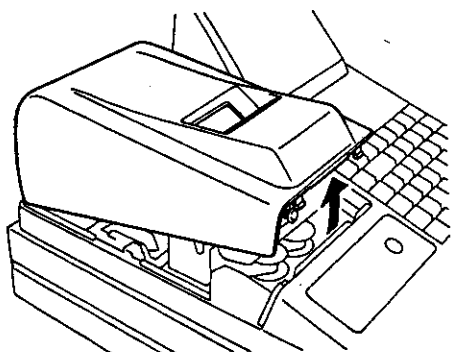
System Option Read

Thank you Call again	
1 1 - 1 2 - 9 3	
Address No.	X
0 1	2 6
0 2	7 8
0 3	0
0 4	0
0 5	0
0 6	0
0 7	0
0 8	1 3
0 9	1
1 0	0
1 1	0
1 2	6 8
1 3	0
1 4	2
1 5	4 5
1 6	4
	2 8
	0 1 0 6
	0 9 - 0 8

NOTE: The above samples show the Initial SET Bit Nos. of each Address.

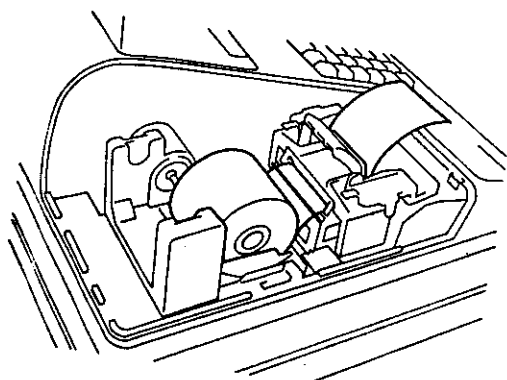
21. Paper Roll Replacement and Other Maintenance

Replacing the Paper Roll



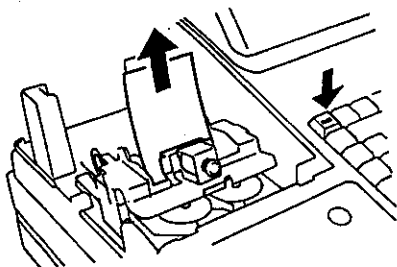
1

Remove the Printer Cover.



2

Cut the paper as shown in the figure.



3

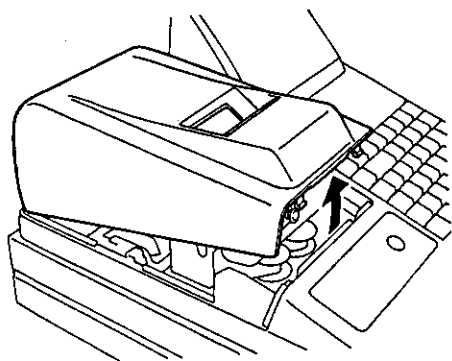
Depress the **[FEED]** key to feed the remaining paper end.

CAUTION: *Never try to pull out the remaining paper end by hand. It may cause a paper jam.*

Load new paper roll as described in Chapter 10.

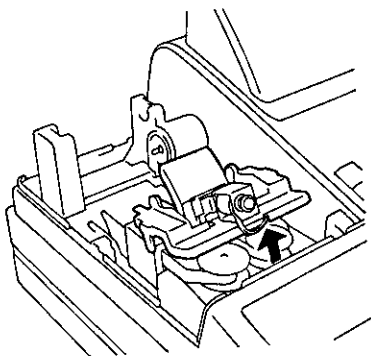
4

Replacing the Ink Ribbon



1

Remove the Printer Cover.

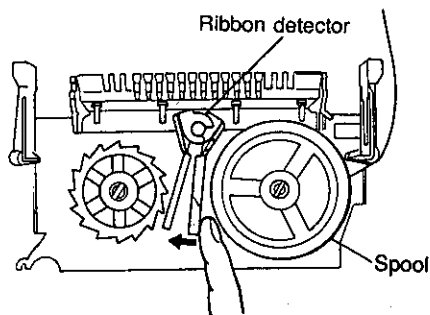


2

Lift the Stamp Unit as shown in the figure, then remove the ribbon by pulling the ribbon spools upward.

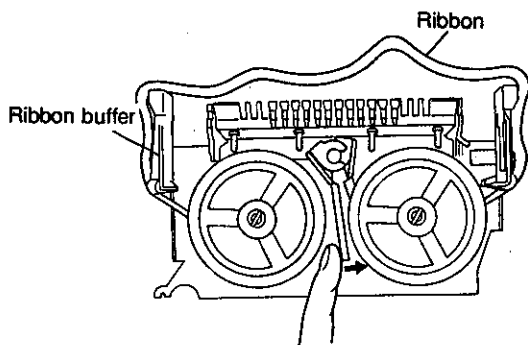
3

Install one of the ribbon spools as shown in the figure while moving the ribbon detector so that the ribbon is not caught.



4

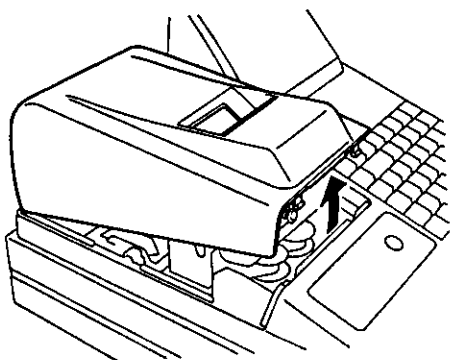
Thread the ribbon around the ribbon buffer, and then install the other ribbon spool while pushing the ribbon detector aside so that it may not catch the spool.



5

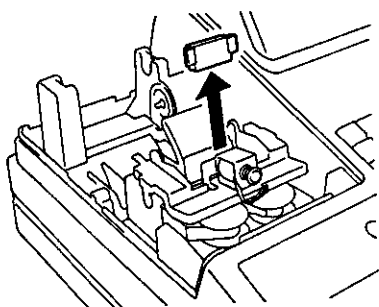
Turn the ribbon spool several times to remove the slack in the ribbon.

Replenishing Ink to the Store Name Stamp



1

Remove the Printer Cover.

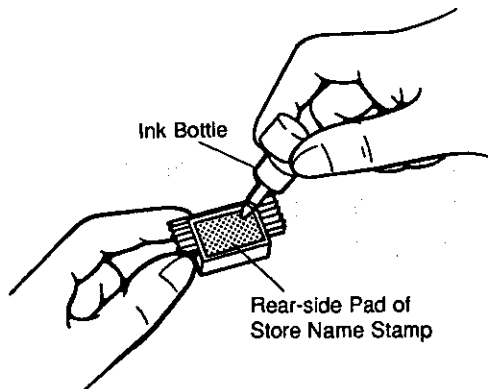


2

Remove the Stamp from the Stamp Print Unit by pulling out upward with your fingers on the notches of both sides as shown in the figure.

3

Apply ink to the pad on the rear side of the stamp. The amount of the refilling should be adjusted according to the density of the printed message, but the limit of 2 cc should not be exceeded. (The ink bottle supplied contains 5 cc of ink.)



NOTES 1) Replenish the ink drop by drop several times until the pad does not absorb any more.

2) Allow time for ink to saturate the stamp.

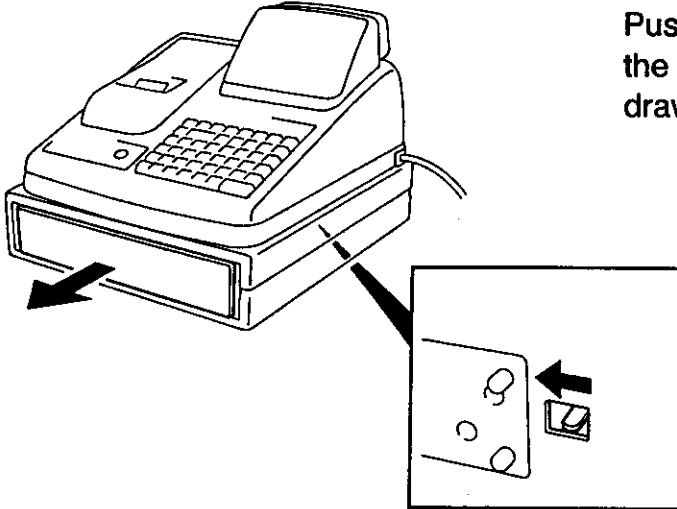
4

Return the stamp in the reverse procedure.

Manual Drawer Release

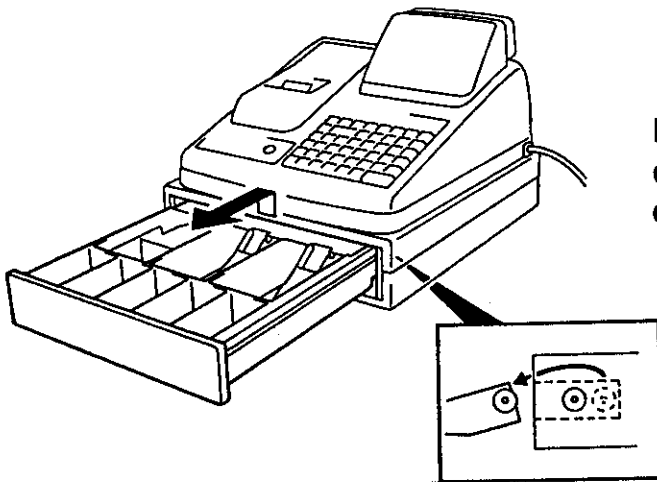
The drawer opens automatically when a registration is performed. In the event of a power failure or other trouble, the drawer can be opened manually in the following manner.

Releasing



Push the Drawer Releasing Lever to the direction of the arrow and the drawer opens.

Removing the Drawer

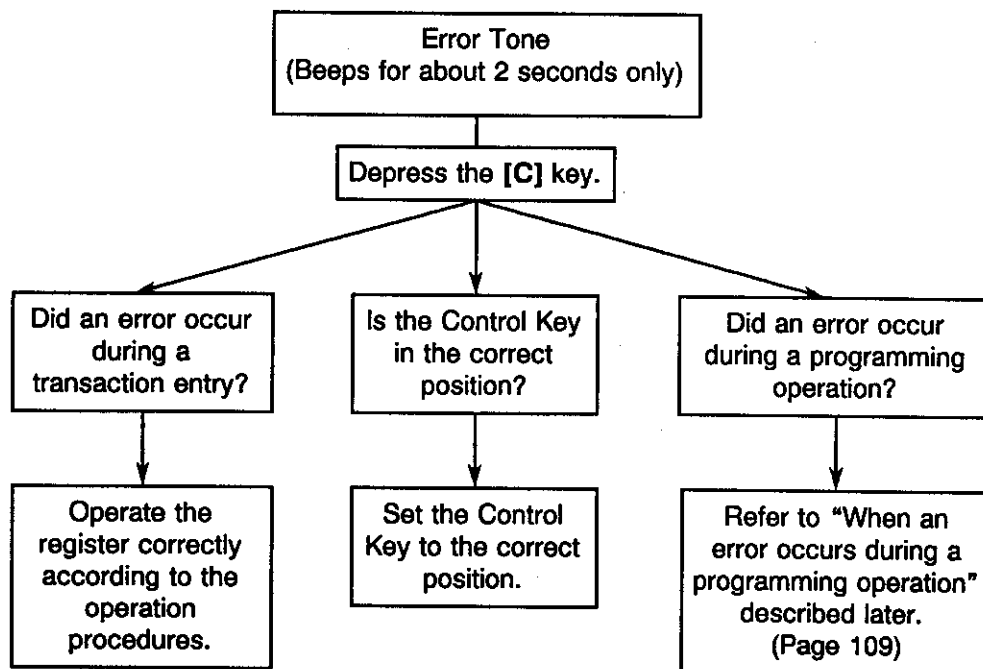


Pull the drawer out. When the drawer stops by the stopper, lift the drawer up and pull it again.

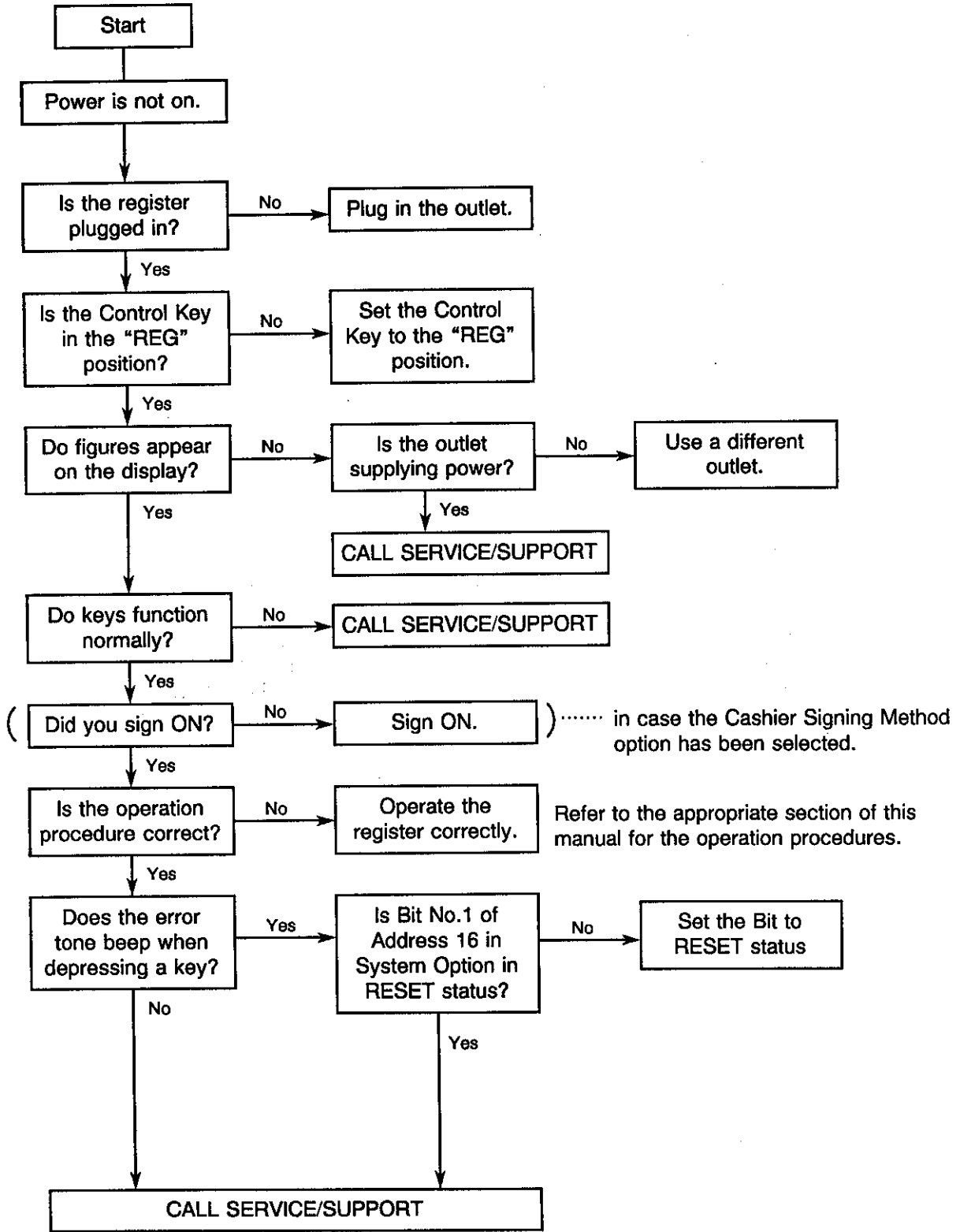
22. Troubleshooting

This section describes actions against operation problems.

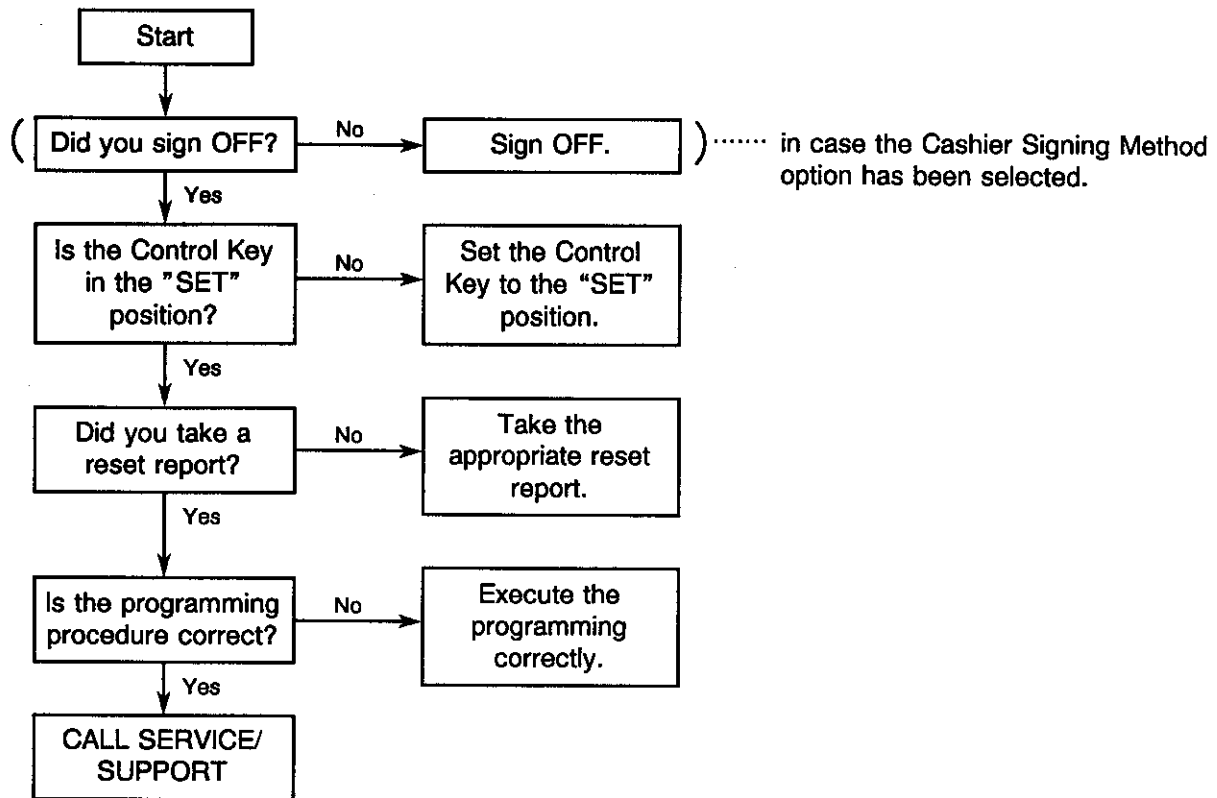
When an error occurs ; The error tone beeps and the triangular lamp "ALM" illuminates.



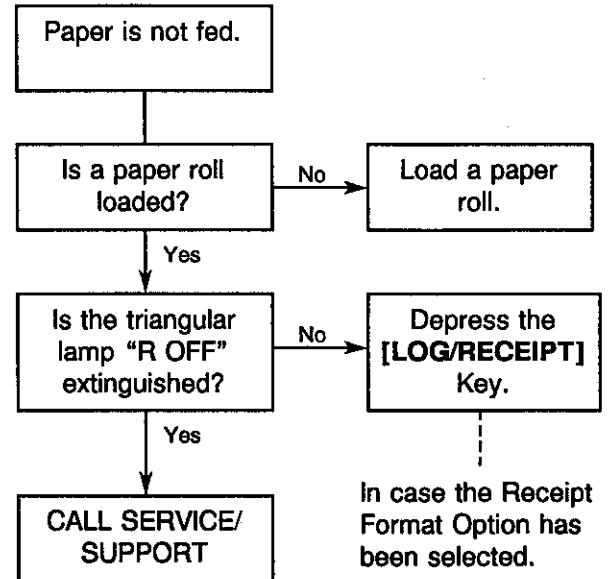
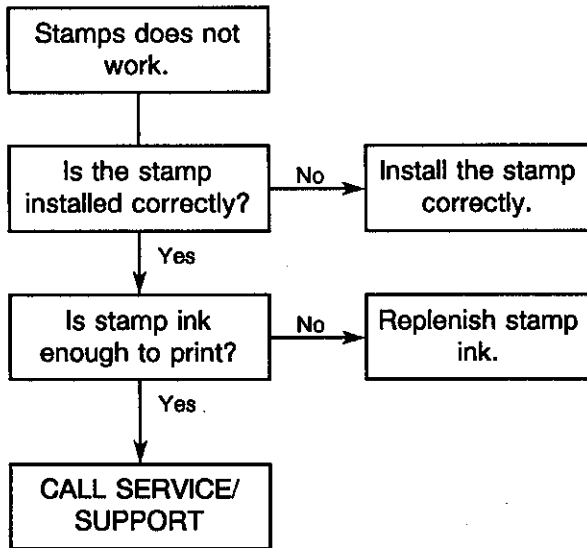
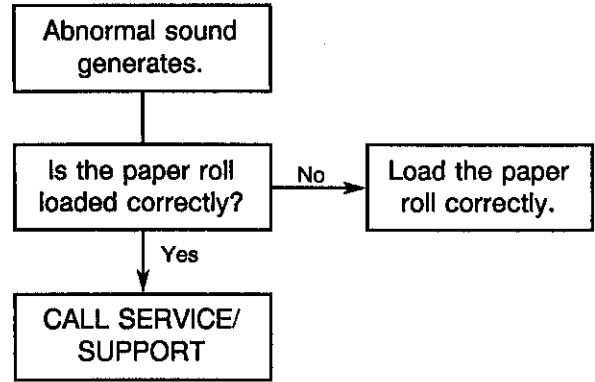
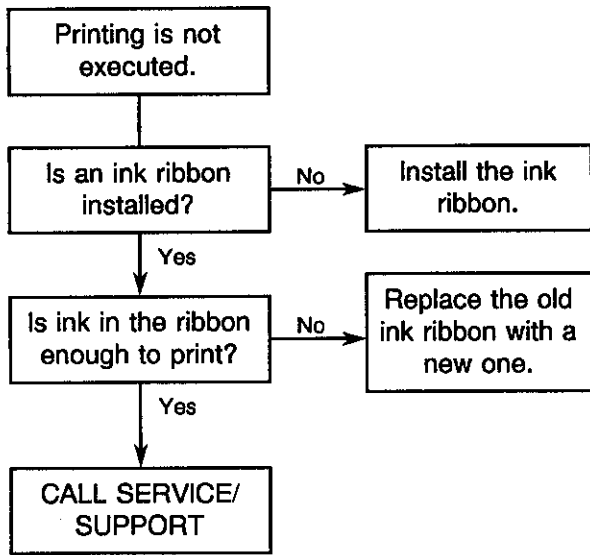
When a transaction entry cannot execute in the "REG" mode;



When an error occurs during a programming operation;



When printing condition is abnormal;



23. Status Clear and Memory Clear Operations

The operations described in this chapter are provided for initial start-up of the machine or emergency but not to be operated as part of daily routines. Do not perform any of these operations unless it is really necessary.

Status Clear

The operation defined as "Status Clear" will only clear an error or key-locked condition that disables normal operations (though it seldom happens). Thus neither the sales data nor the programmed data will be cleared by a Status Clear (except that when a Status Clear is operated to clear a key-locked condition during a sale, the sale item data already entered for the current sale will be cleared).

The Status Clear also has the function to obtain the condition "after all sales data resets" (as if all sales data had been reset) but will not actually affect any sales data. Such a condition is required in some programming operations and is usually obtained by taking the required reset reports. However, when you do not want the sales data to be reset because it is still in the business hours, etc., this function of the Status Clear will be effective. But be careful in using the function; depending on the programming item, sales data resets may really be necessary instead of a Status Clear, to keep consistency between the programmed data and the sales data.

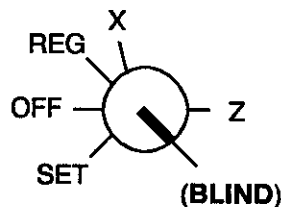
Operating Procedure

Condition: Any time, outside or during any operation sequence

Operation:

Remove the plug of the register's power cord from the wall outlet (to turn OFF the power).

Use the **S** Key to turn the Control Lock to "BLIND".



Plug in the cord (to turn ON the power).

A Status Clear receipt is issued.

Status Clear Symbol Line

*Date, Consecutive No., and Time
are not reset.*

Thank you Call again	
11.-12.-93	
00	*0.00
027.1	
13-04	

Zero-amount Display & Print Format
(may vary depending on the designation in the last "Sales Memory Clear" or "All Memory Clear" (refer to the following pages.) Initial Format: 0.00

Sales Memory Clear

The operation defined as "Sales Memory Clear" will only clear the sales data accumulated in the register's memory (report memory). The programmed data will not be cleared. By operating a Sales Memory Clear, all the sales data including non-resettable totals and counters, Reset Report Counts, Receipt Consecutive No., and Electronic Journal memory are cleared.

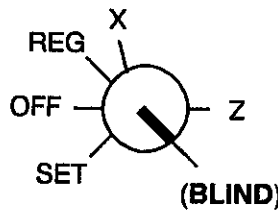
Warning : This clear operation deletes all sales data stored in the register's memory.

Operating Procedure

Condition: Any time, outside or during any operation sequence except during Key Setting or Key Location Changing (Chapter 13) or System Option Setting.

Operation:

Use the **S** Key to turn the Control Lock to "BLIND".



Depress the following Numeric Key according to the display and print format for zero amount:

Numeric Key	Zero-amount Format
3	0 0 0 •
1	• 0

— for use in US or Canada

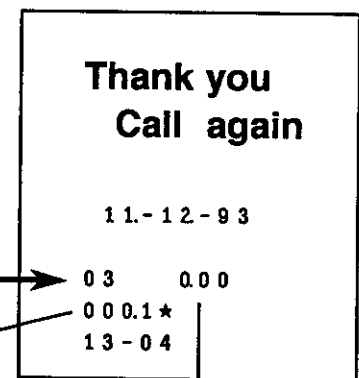
Depress the **AT/TL** key.

A Sales Memory Clear receipt is issued.

Sales Memory Clear Symbol Line
(03 for Numeric 3, or 01 for Numeric 1)

Receipt Consecutive No. is reset to 0001.

(Date and Time remain unreset.)



Zero-amount Display & Print Format designated here.

NOTE: When a Sales Memory Clear is operated, the condition "after all sales data reset" is obtained, just as "Status Clear" or "All Memory Clear". Therefore, no Reset Reports need to be taken for starting any programming operation.

All Memory Clear

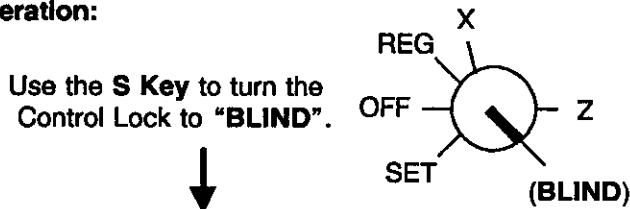
If the register becomes completely inoperative due to battery discharge or malfunction of the program memory, the All Memory Clear operation must be carried out. When an All Memory Clear is operated, all the memory contents that have been stored in the RAM will be cleared (i.e., the programmed data and the sales data). Along with the clearing process, the designated zero-amount format is set and "Initial Data" and "Initial Status" for respective programming items are automatically set.

Warning : This clear operation deletes all programmed data and sales data stored in the register's memory. (i.e., the register goes back to initial status.)

Operating Procedure

Condition: Any time, outside or during any operation sequence except during Key Setting or Key Location Changing (Chapter 13) or System Option Setting.

Operation:



Depress the following Numeric Key according to the display and print format for zero amount:

Numeric Key	Zero-amount Format
3 9	0 0 0 .
1 9	. 0

— for use in US or Canada

Depress the **AT/TL** key.

An All Memory Clear receipt is issued.

All Memory Clear Symbol Line
(39 for Numeric 39, or 19 for Numeric 19)

Receipt Consecutive No. is reset to 0001.

(Date and Time remain unreset.)

Zero-amount Display & Print Format designated here.

**Thank you
Call again**

11-12-93

39 *0.00

000.1

13-04

11-12-93

- NOTES 1.** When the All Memory Clear is operated, the condition "after all sales data reset" is obtained, just as "Status Clear" or "Sales Memory Clear". Therefore, no Reset Reports need to be taken for starting any programming operation.
- 2.** In addition to clearing all memory data, the standard keyboard is automatically set (refer to Chapter 9. Keyboard).

24. Specifications

Size	...	350 mm (width) × 400 mm (depth) × 290 mm (height including rubber feet) (or 358 mm (height) when Customer's Display is popped up.)
Weight	...	6 kg
Power Required	...	AC 117V ± 10%; 50/60Hz ± 10%
Power Consumed	...	0.3 A (Operating), 0.1 A (non-operating)
Ambient Temperature	...	0°C to 40°C
Relative Humidity	...	10% to 90% RH (non-condensing)
Size of Paper Rolls		

	Ordinary Paper (Single sheet)	Carbonless Duplicating Paper (Double-sheet)
Width	58 mm	58 mm
Diameter	Max. 80 mm	Max. 80 mm
Recommended Quality and Product	High-quality paper 45 kg	Receipt Sheet: High quality paper 45 kg Journal Sheet: MITSUBISHI, NCR Paper, DIASELF N40 or equivalent Paper Color: White Copy print color: Blue

Amount and Counter Totals in Report Memory

Report	Daily				Periodical Report Memory
	Amount (digits)	Item Count (digits)	Operation Count (digits)	Customer Count (digits)	
Financial Report Items					Provided (except media-in-drawer totals)
Grand Total (non-resettable)	16				
Other Items <i>NOTE</i>	9	5 (+2 decimal)	5	5	
Reset Counter			4		
Department	9	5 (+2 decimal)		5	Provided
PLU	9	5 (+2 decimal)			—
Reset Counter			4		
Cashier (option)					Provided
Gross Sale	9	5 (+2 decimal)		5	
Reset Counter	9		4		
Hourly Range Sale	9			5	—
Reset Counter			4		

NOTE: Some items have an Amount and a Counter, some have an Amount only, others have a Counter only. The counter type varies depending on the item.


Memory Protection

Long lasting rechargeable lithium battery for memory protection.

Specifications are subject to change without notice.

24. Specifications

Size	...	350 mm (width) × 400 mm (depth) × 290 mm (height including rubber feet) (or 358 mm (height) when Customer's Display is popped up.)
Weight	...	6 kg
Power Required	...	AC 117V ± 10%; 50/60Hz ± 10%
Power Consumed	...	0.3 A (Operating), 0.1 A (non-operating)
Ambient Temperature	...	0°C to 40°C
Relative Humidity	...	10% to 90% RH (non-condensing)
Size of Paper Rolls		



	Ordinary Paper (Single sheet)	Carbonless Duplicating Paper (Double-sheet)
Width	57.5 +0.6/-0.5 mm	57.5 +0.6/-0.5 mm
Diameter	Max. 80 mm	Max. 80 mm
Recommended Quality and Product	High-quality paper 45 kg	Receipt Sheet: High quality paper 45 kg Journal Sheet: MITSUBISHI, NCR Paper, DIASELF N40 or equivalent Paper Color: White Copy print color: Blue

Amount and Counter Totals in Report Memory

Report	Daily				Periodical Report Memory
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<u>PLU</u>	9	5 (+2 decimal)			—
Reset Counter			4		
<u>Cashier (option)</u>					Provided
Gross Sale	9	5 (+2 decimal)		5	
Reset Counter	9		4		
<u>Hourly Range Sale</u>	9			5	—
Reset Counter			4		

NOTE: Some items have an Amount and a Counter, some have an Amount only, others have a Counter only. The counter type varies depending on the item.

Memory Protection

Long lasting rechargeable lithium battery for memory protection.

Specifications are subject to change without notice.

STAMP ORDER

Dear Customer;

A Receipt Stamp (Electro-stamp) "Thank you Call again" comes with each unit. If you prefer printing your company name or message to "Thank you Call again" for receipt imprint, please place your order by using the order form below.

Please complete the order form and mail with your check for \$25.00 US Dollar.

Replenishment ink is also available for \$1.50 US Dollar for purple ink.

----- CUT OFF ----- CUT OFF ----- CUT OFF -----

TEC STAMP ORDER FORM			DATE _____																
ORDER TO:	carda international P.O. Box 2539 San Antonio, Texas 78299 (512) 224-8400 (210) 226-8313 (Fax No.) 1-800-255-9617 (Toll Free)																		
SOLD TO:	COMPANY NAME _____																		
	ADDRESS _____																		
	CITY _____		COUNTRY _____																
	YOUR NAME _____																		
	PHONE _____		ZIP CODE _____																
Please show the text of your stamp here (words only).	TEC MODEL: MA-85																		
<div style="border: 1px dashed black; width: 250px; height: 100px; margin: 0 auto;"></div>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 40%;">Description</th> <th style="width: 15%;">UNIT PRICE</th> <th style="width: 15%;">Q'TY</th> <th style="width: 30%;">AMOUNT</th> </tr> </thead> <tbody> <tr> <td>STAMP</td> <td>\$25.00</td> <td></td> <td></td> </tr> <tr> <td>Replenishment Ink</td> <td>\$1.50</td> <td></td> <td></td> </tr> <tr> <td colspan="3" style="text-align: right;">TOTAL</td> <td></td> </tr> </tbody> </table>			Description	UNIT PRICE	Q'TY	AMOUNT	STAMP	\$25.00			Replenishment Ink	\$1.50			TOTAL			
Description	UNIT PRICE	Q'TY	AMOUNT																
STAMP	\$25.00																		
Replenishment Ink	\$1.50																		
TOTAL																			
Please mail your check with order form. More detail, please contact to Carda International.																			

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1. If you order two or more design stamps, please make copies of this form.
 2. Carda International is an independent company and is not affiliated with TEC.
 3. Carda International also accepts orders for custom logos at an additional cost.

For supplies, service or assistance call:

Please have the following information available when you call:

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Model: MA-85-100

Serial Number: _____

Place Purchased: _____

Date of Purchase: _____

If for any reason this product is to be returned to the store where purchased, it must be packed in the original carton.



TEC

TOKYO ELECTRIC CO., LTD.

英文



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