

TEC

TEC Electronic Cash Register

MA-186-100 SERIES

Programming Manual

Document No.

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(Revised)

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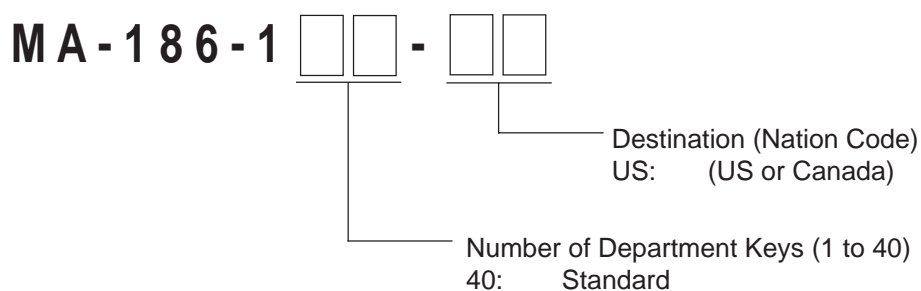
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INTRODUCTION

This programming manual is provided for salespersons, field engineers, and other support personell as a supplementary manual for the TEC electronic cash register Model MA-186-100 series. Reading through the MA-186-100 Owner's Manual is recommended in order to thoroughly understand the descriptions in this manual.

SPECIFICATIONS

MODEL: MA-186-100 Series



SIZE: 460mm (width) x 453mm (depth) x 299 mm (height) including rubber feet
(or 355mm height when Customer's Display is popped up.)

WEIGHT: 11.4Kg

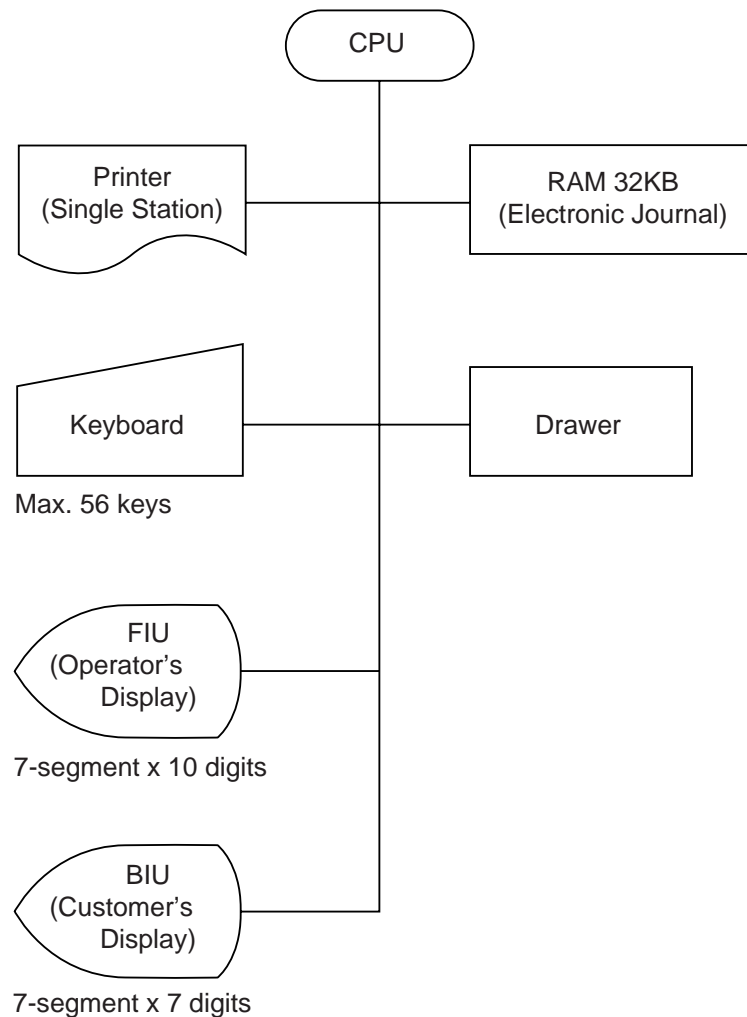
POWER REQUIRED: AC 117 V \pm 10%; 60Hz \pm 10%

POWER CONSUMED: 0.3A (operating), 0.1A (non-operating)

AMBIENT TEMPERATURE: 0°C to 40°C

RELATIVE HUMIDITY: 10% to 90% (non-condensing)

HARDWARE COMPONENTS:



KEY ENTRY METHOD: Two-key Roll-over

DISPLAY:

OPERATOR'S DISPLAY (Front Display; FIU)

Numeric Display: 10-digit 7-segment fluorescent display
Display Color ... green
Amount ... 8 digits (7 digits for entry)
Department Code ... 2 digits
Repeat Count ... 1 digit

Triangular Lamps: 6 lamps

CUSTOMER'S DISPLAY (Rear/Remote Display; BIU)

Numeric Display: 7-digit 7-segment fluorescent display
Display Color ... green
Amount ... 7 digits

Triangular Lamps: Not provided

PRINTER:

Model: CP-121 CRT III (CITIZEN product)

Print Method: Flying Method

Number of Stations: 1 station (Receipt or Journal)

Print Speed: 3.3 lines/second \pm 10%

Printable Digits: 12 digits/line

Character Size: 1.6mm(width) x 2.75mm(height)

Digit Space: 2.8mm \pm 0.2mm

Line Space: 5.2mm + 0.3/-0.7mm

Print Drum Configuration:

	12	11	10	9	8	7	6	5	4	3	2	1
0	-	-	-	-	-	-	-	-	-	*	@	.
1	0	0	0.	0	0	0.	0	0	0	GT	CA	TL
2	1	1	1.	1	1	1.	1	1	1	#	CK	1
3	2	2	2.	2	2	2.	2	2	2	TT	CH	2
4	3	3	3.	3	3	3.	3	3	3	X	MS	3
5	4	4	4.	4	4	4.	4	4	4	GS	CP	4
6	5	5	5.	5	5	5.	5	5	5	CU	%	RA
7	6	6	6.	6	6	6.	6	6	6	SP	TM	PO
8	7	7	7.	7	7	7.	7	7	7	RT	FS	FM
9	8	8	8.	8	8	8.	8	8	8	EX	NS	CG
10	9	9	9.	9	9	9.	9	9	9	ST	TX	ID
11	★	★	★	★	★	★	★	★	X	VD	PB	+
12	PL		NO				NS		Z	CL	TF	*

Paper Roll: 58mm(width)x80mm(diameter)
Paper Feed Mechanism: Automatically feeds 1 line in one print cycle
Store Name Stamp: 29.9mm(width)x15mm(height)
Receipt-cut Method: Manual Cut
Ink: Exclusive Ink Ribbon, Color Purple
(Life of an Ink Ribbon 100,000 lines)
MCBF Value: 1,000,000 lines

DRAWER:

Drawer Size, Money Case: Decided for the individual destination
Others: Life of Drawer Open/Close Count 500,000 count (with 2Kg load)

REPORT TOTAL AND COUNTER MEMORY CAPACITY

Financial Memory *See page 5.*
Cashier Memory *See page 6.*
Other Memory *See page 6.*
Buffer Memory *See page 6.*
Memory Balance *See the Owner's Manual, "Financial Report" print format section in Chapter 14.*

Financial Memory

Total/Counter Name	Daily Memory <i>(unit: digits)</i>				Periodical Memory (with same capacity as Daily Memory)
	Total	Item Counter	Operation Counter	Customer Counter	
Grand Total (non-resettable)	16				
Gross Sales	9	5 + 2			Provided
Percent Charge	9		5		Provided
Net Sales without Tax	9	5 + 2			Provided
GST	9				Provided
Tax 1 & Tax 2	2 x 9				Provided
Tax 3 (Manual Tax)	9				Provided
Net Sale with Tax	9	5 + 2			Provided
Other Income Department Total	9	5 + 2			Provided
Percent Discount (on Subtotal)	9		5		Provided
Dollar Discount	9		5		Provided
Media Total	9			5	Provided
Cash Sales	9			5	Provided
Check Sales	9			5	Provided
Charge Sales	9			5	Provided
Received-on-Account	9		5		Provided
Paid Out	9		5		Provided
Cash-in-drawer	9				Provided
Check-in-drawer	9		5		
Charge-in-drawer	9		5		
Item Correct (on DP/PLU items)	9		5		Provided
Void	9		5		Provided
Misc. Void (Item Corr on others than DP/PLU items)	9		5		Provided
All Void	9		5		Provided
Percent Discount (on Line Items)	9		5		Provided
Negative Department Total	9	5 + 2			Provided
Returned Merchandise	9	5 + 2			Provided
Negative Tax	9				Provided
GST Taxable Total	9				Provided
Taxable Total 1 & 2	2 x 9				Provided
Tax Exempt Customer				5	Provided
GST Exempt	9				Provided
Tax Exempt 1 & 2	2 x 9				Provided
No-sale Counter			5		
Reset (Z) Report Counter			4		Provided

"5+2" indicates "5 integer digits and 2 decimal digits"

Cashier Memory (x 8 cashiers)

Total/Counter Name	Daily Memory <i>(unit: digits)</i>				Periodical Memory (with same capacity as Daily Memory)
	Total	Item Counter	Operation Counter	Customer Counter	
Gross Sales	9	5 + 2		5	Provided
Other Income Departments Total	9	5 + 2			Provided
Reset (Z) Report Counter			4		

"5+2" indicates "5 integer digits and 2 decimal digits"

Other Memory

Total/Counter Name	Daily Memory <i>(unit: digits)</i>				Periodical Memory (with same capacity as Daily Memory)
	Total	Item Counter	Operation Counter	Customer Counter	
PLU (x 500)	9	5 + 2			
PLU Reset (Z) Report Counter			4		
Department (x 40)	9	5 + 2		5	Provided
Hourly Range Total (x 24)	9			5	
Hourly Reset (Z) Report Counter			4		

"5+2" indicates "5 integer digits and 2 decimal digits"

Buffer Memory

Buffer Name	Number of Lines	Number of Items
Electronic Journal	2,150	
Post-issue Receipt	20	
All Void		20

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.

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).

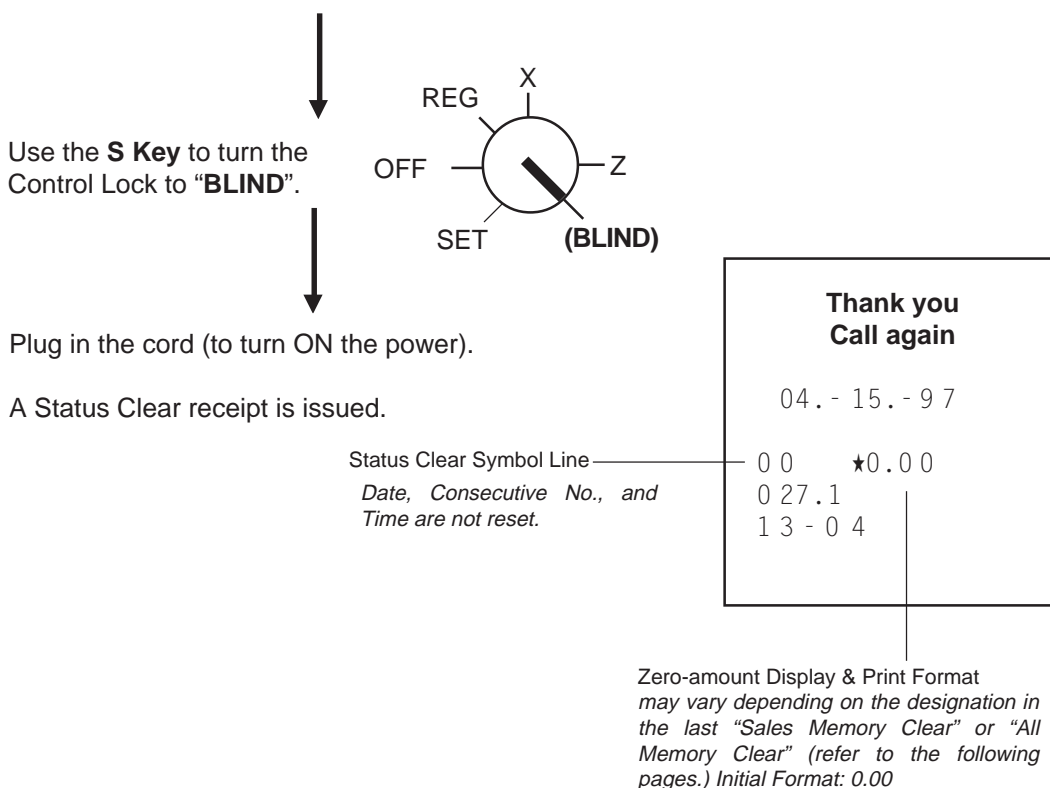
The Status Clear also has the function to obtain the condition "after all sales data resets" (as if all sales data had been reset) but will not actually affect any sales data. Such a condition is required in some programming operations and is usually obtained by taking the required reset reports. However, 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).



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.

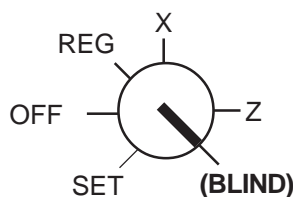
Warning: This clear operation deletes all sales data stored in the register’s memory.

Operating Procedure

Condition: Any time, outside or during any operation sequence except during Key Setting or Key Location Changing or System Option Setting procedure.

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:

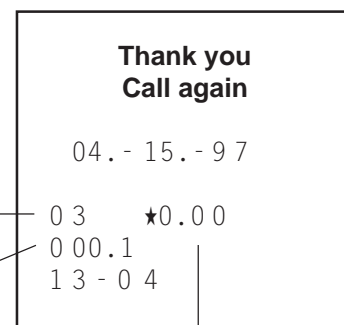
Numeric Key	Zero-amount Format	Version Code (Nation)
1	. 0	IT (Italy)
3	0 . 0 0	US (US or Canada)

Depress the **AT/TL** key.

A Sales Memory Clear receipt is issued.

Sales Memory Clear Symbol Line
(03 for Numeric 3, 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.

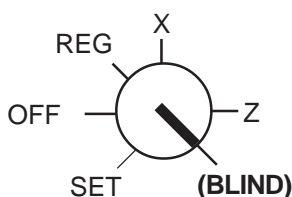
Warning: This clear operation deletes all programmed data and sales data stored in the register's memory. (i.e., the register goes back to initial status.)

Operating Procedure

Condition: Any time, outside or during any operation sequence except during Key Setting or Key Location Changing or System Option Setting procedure.

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 and the nation where the register is used:

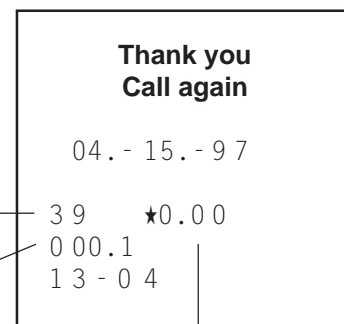
Numeric Key	Zero-amount Format	Version Code (Nation)
1 9	. 0	IT (Italy)
3 9	0 . 0 0	US (US or Canada)

Depress the **AT/TL** key.

An All Memory Clear receipt is issued.

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

Receipt Consecutive No. is reset
to 0001.
(Date and Time remain unreset.)



Zero-amount Display & Print Format designated here.

NOTE: When an 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.

PROGRAMMING OPERATIONS

Table of Programming Operations

Operation (The operations marked with "*" are also introduced in Owner's Manual for conveniences of users.)	Control Lock Position	Submode	Page
SFKC (Selective Function Key Code) Programming	BLIND	76	11
System Option Setting	SET	18	14
Department Status Programming	SET	3	27
PLU Table Setting, Changing, or Deletion*	SET	4	29
Time Setting or Adjustment *	SET	5	32
Date Setting or Adjustment *	SET	6	33
Hourly Range Table Programming	SET	7	34
Department LC (Listing Capacity) Programming	SET	8	36
Non-taxable Limit Amount Setting	SET	12	37
Department Preset Price Setting or Changing *	SET	---	38
PLU Preset Price Changing *	SET	---	39
% Key Preset Rate Setting or Changing *	SET	---	40
GST Rate Setting *	SET	---	41
Tax Table Setting *	SET	---	41

Condition for Programming Operations:

At the top of each programming operation sequence in this chapter, "**Condition**" is attached. Unless the register satisfies this condition, the programming operations will not be allowed.

When **Condition** "After --- Reset" is attached:

"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 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 **Condition** "Any time outside a sale" is attached:

It means that no condition is specified to a programming (setting) operation, and that the operation is allowed any time outside a sale (but the cashier must be signed off if the Cashier Signing Method option is selected).

SFKC (Selective Function Key Code) Programming

This operation is used to determine the keyboard layout with the required keys and must be carried out first of all programming operations. If an All Memory Clear has been operated prior to the SFKC programming, program only the keys that require changes from the SFKC in the Standard Keyboard (refer to the Owner's Manual) which has automatically been set by the All Memory Clear operation.

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 lists used in the setting procedure next page. For detail functions and operations of each key, refer to Chapter "13. Transaction Entries" in the Owner's Manual.

- 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	85	NS (No-sale)	*2
*1	1 to 20	Department Keys 1 to 20	87	LC OPEN (Listing Capacity Open)	
	61	FEED (Paper Feed)	90	#/CID (Non-add Number/Cash-in-drawer)	*2
	63	00 (Double-zero)			
	65	• (Decimal Point)	91	#/NS (Non-add Number/No-sale)	*2
	69	DOLL DISC (Dollar Discount)	92	PLU (Price-Look-Up)	
	70	%+ (Percent Charge)	93	@/FOR (At/For; Multiplication)	
	71	%- (Percent Discount)	94	RECEIPT ISSUE (Post-receipt)	
	72	RTN MDSE (Returned Merchandise)	95	C (Clear)	
	73	ITEM CORR (Item Correct)	97	TX/M or TX1/M (Tax 1 Modifier)	
	74	VOID (Void)	98	TX2/M (Tax 2 Modifier)	
	75	ALL VOID (All Void)	99	TXBL TL (Taxable Total)	
	76	AT/TL (Cash Tender/Total)	100	TAX (Manual Tax)	*3
	77	CHK TND (Check Tender)	101	EX (Tax Exempt)	
	78	Chg (Charge Total)	107	DPT SHIFT (Department Shift)	*4
	82	ST (Subtotal)	108	AMT (Amount)	
	83	R/A (Received-on -Account)	109	REPEAT (Repeat)	
	84	PO (Paid Out)	115	GST/M (GST Modifier)	
			127	LOG/RECEIPT (Log/Receipt)	*5

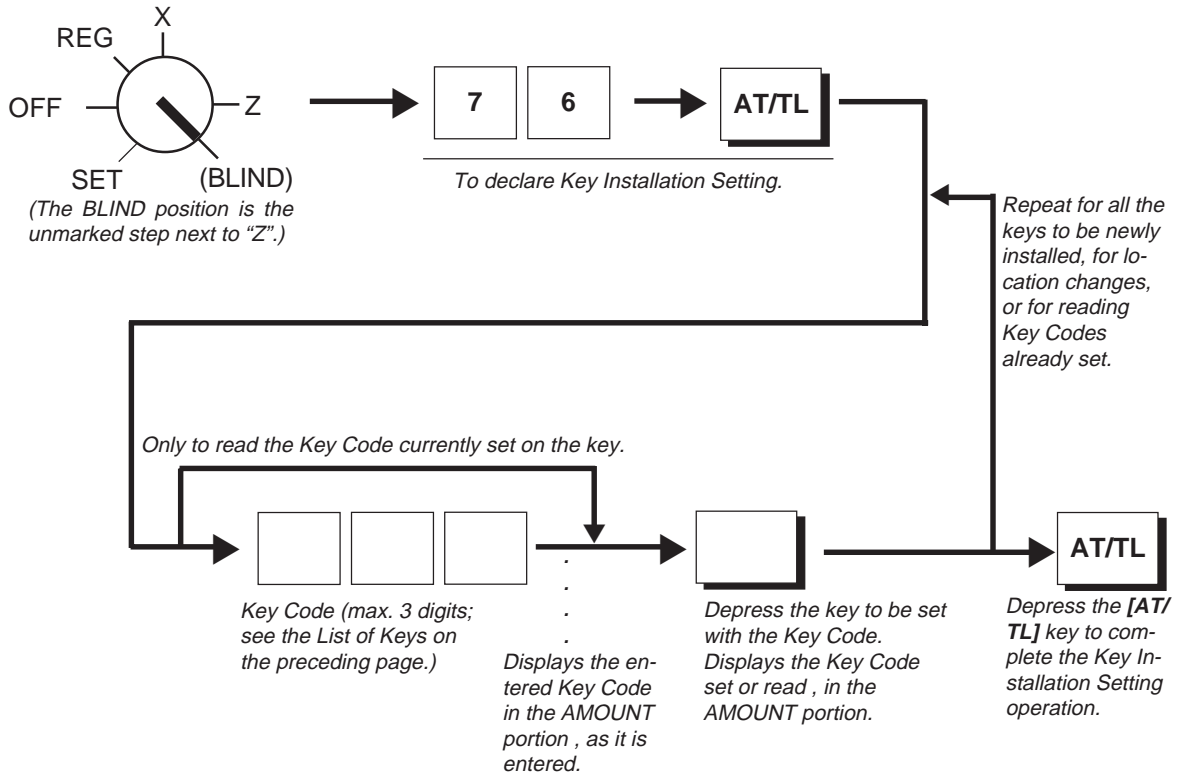
- *1. At least one Department Key is required to be installed.
- *2. The **[/NS]** key has both **[/CID]** and **[NS]** functions. Therefore, when **[/NS]** is installed, neither **[/CID]** nor **[NS]** are necessary. (At least, either **[/NS]** or **[/CID]** must be installed.)
- *3. To designate the SFKC 100 for the **[TAX]** key (Manual Tax), operate the keys **[1] → [0] → [0]**. In this case, the **[00]** key is unavailable.
- *4. The **[DPT SHIFT]** key designates the Department Nos. 21 to 40, using the Department keys 1 to 20.
- *5. When the Signing Method is selected, this key must be installed. If this optional function is not selected, this key merely functions as Receipt ON/OFF key.

Key Installation Setting

Condition: After all Daily and Periodical Resets

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 \longrightarrow
 Key Code \longrightarrow

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

For the Standard Keyboard Layout, refer to Chapter "9. Keyboard" in the Owner's Manual.

()	()
()	()
()	()
()	()
()	()

()	()	()
()	()	()
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. *If any of the following keys are newly installed or 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 Price (if required) of the Department

[PLU] PLU Table

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

System Option Setting

This operation is provided for your selections of the register's basic functions according to the market and your requirements.

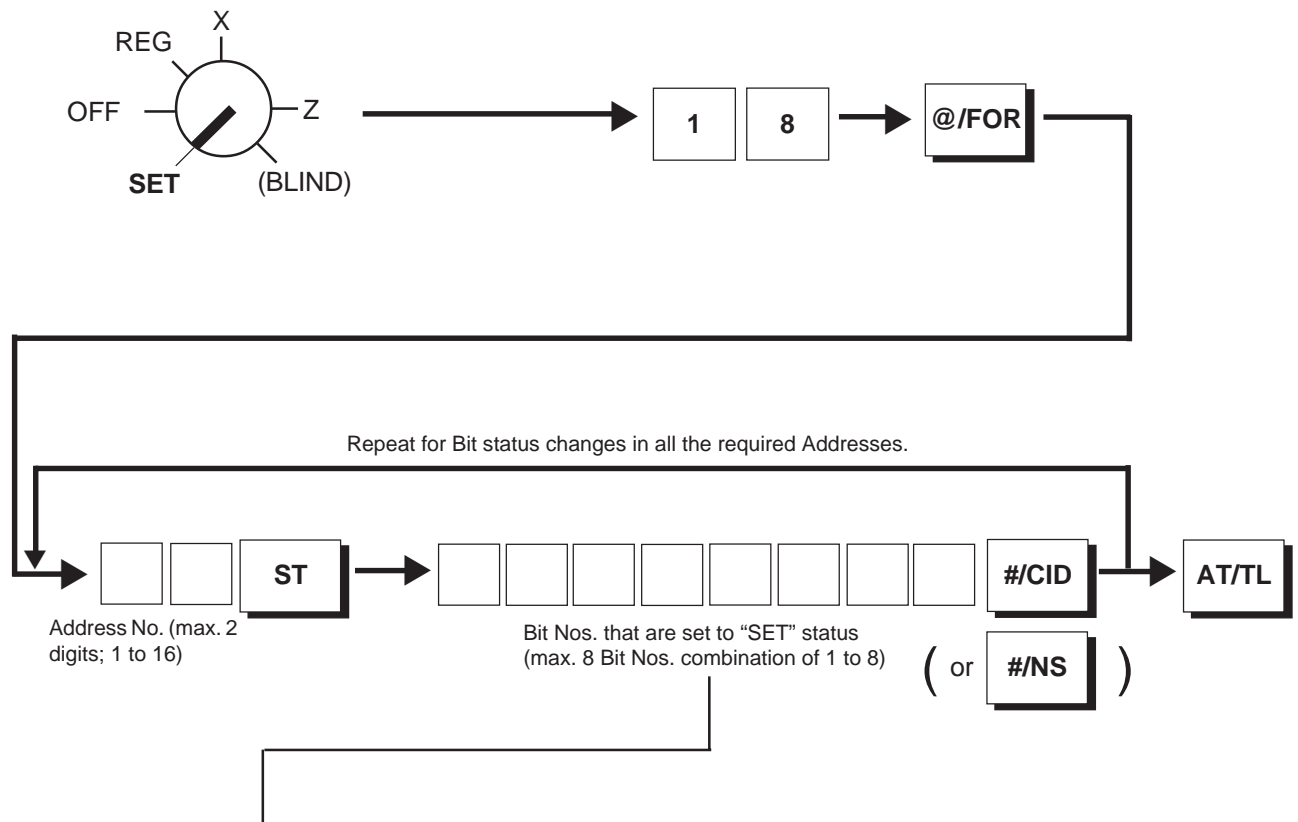
Programming Procedure

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

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. Do not program any Bit No. shaded and filled with "vacant" in the Address tables on the following pages. If programmed, performance of the register will not be guaranteed.

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, all the Bits in all the Addresses automatically regain the Initial Status.

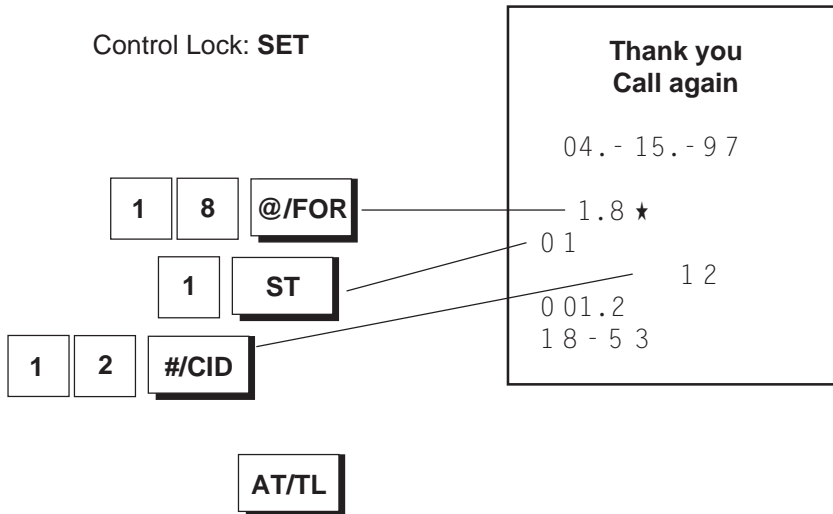
Programming Example) To select the following options:

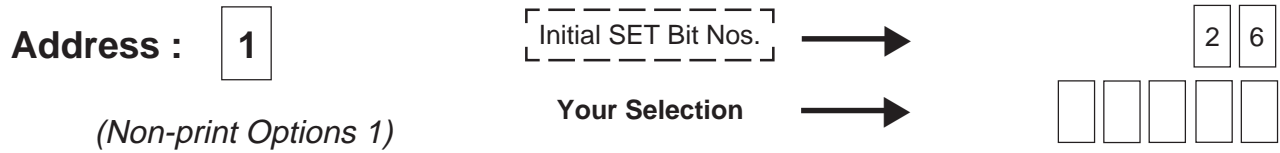
Address 1 (refer to the next page)

Bit 1: Time NON-PRINT (**SET** status)

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

Other Bits are to all RESET (PRINT)





Bit No.	Content	Selective Status	
		RESET	SET
1	Time on Journal and every Receipt in REG, X, Z, SET modes	[PRINT]	NON-PRINT
2	Purchased Item Count on Sale Receipts	PRINT	[NON-PRINT]
3	Manual Subtotal on Sales Receipts	[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	-- vacant --		
8	-- vacant --		

Address : 2

[Initial SET Bit Nos.] →

7 8

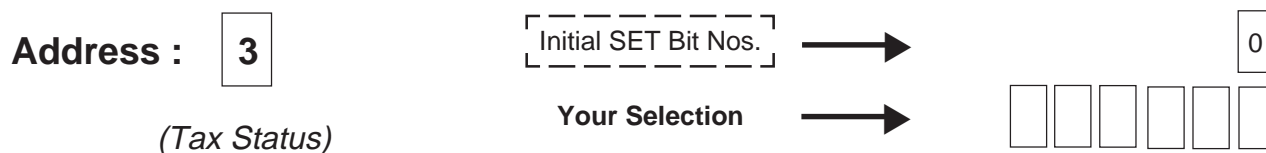
(Optional Functions 1)

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] key)	[PROHIBITED]	ALLOWED
4	Obtaining Taxable Total (sale total including taxes) by [TXBL TL] or [ST] key before finalizing each sale	[NOT COMPULSORY]	COMPULSORY
5	-- vacant --		
6	Department and Financial Items Zero Skip on Reports	[NO ZERO-SKIP]	ZERO-SKIP
7	Receipt or Journal (Printer Format)	Receipt-format	[Journal-format]
8	Cashier Identifying Function	Cashier Signing Method	[Nothing]

Supplementary Description for Address 2:

- 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 calculations is fixed to ROUND OFF, out of the application of the process selected here.)
- Bit 3: The [RTN MDSE] key is operable to turn the sale into negative regardless of this bit status selection.
- Bit 6: If SET status is selected, data of departments and financial items with no sales recorded will be skipped from printing on Financial Reports and Media Sales& In-drawer Reports.
- Bit 7: RESET (Receipt-format) ... Each transaction entry will print a sale receipt with the Store Name stamp printed. The receipt is cut and handed to the customer. If journal recording is required, you can use 2-ply paper rolls.
SET(Journal-format) ... The sales data will be printed in a journal format, eliminating store name stamping, line feeding, etc. When this status is selected, receipts will not be issued from the register.
- Bit 8: RESET (Cashier Signing Method) ... A maximum of 8 cashiers can operate the register. *Refer to Chapter 15 in the Owner's Manual for further details.*
SET (Nothing) ... The register will operate without any cashier identifying operation.



Bit No.	Content	Selective Status	
		RESET	SET
1	[% +] key PST/Tax Status	NON-TAXABLE	TAXABLE
2	[% -] key PST/Tax Status	NON-TAXABLE	TAXABLE
3	[DOLL DISC] key PST/Tax Status	NON-TAXABLE	TAXABLE
4	[% +] key GST Status	GST NON-TAXABLE	GST TAXABLE
5	[% -] key GST Status	GST NON-TAXABLE	GST TAXABLE
6	[DOLL DISC] key GST Status	GST NON-TAXABLE	GST TAXABLE
7, 8	-- vacant --		

Supplementary Description for Address 3:

Bit 1 & Bit 2: RESET status The key always operates as Non-taxable.
 SET status The key becomes PST/Tax Taxable if they are used after depressing the **[ST]** key. If the key is used after entering a Department or PLU item, the key obeys the Department PST/Tax status.

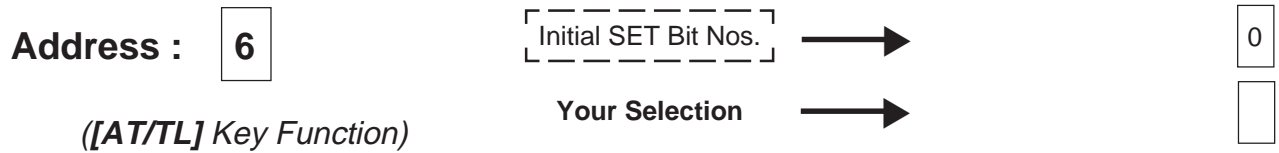
Bit 3: RESET status The key always operates as Non-taxable.
 SET status The key always operates as Taxable.

To make status selections of Bits 4 to 6 here, Address 14-Bit 1 "SET" status must be selected.

Bit 4 & Bit 5: RESET status The keys always operates as GST Non-taxable.
 SET status The key becomes GST Taxable if it is used after depressing the **[ST]** key. If it is used after entering a Department or PLU item, it obeys the Department GST status.

Bit 6: RESET status The key always operates as GST Non-taxable.
 SET status The key always operates as GST Taxable.

-- Addresses 4, 5 are vacant. --

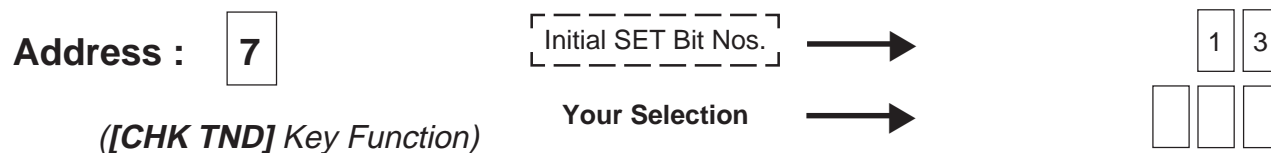


Bit No.	Content	Selective Status	
		RESET	SET
1	Tender and Total Functions in finalizing a sale in REG mode	<input type="text" value="TENDER or TOTAL"/>	TENDER only
2 to 8	-- vacant --		

Supplementary Description for Address 6:

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

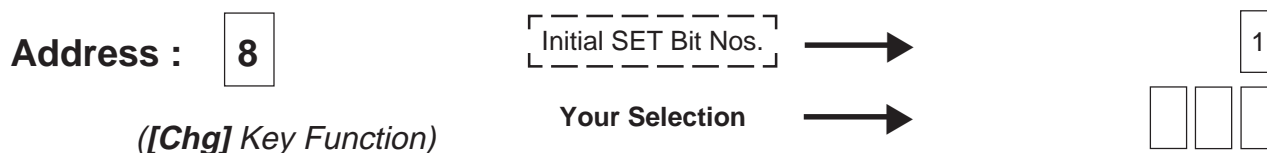
SET status The key always requires a tender amount entry.



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 for Address 7:

- Bit 1: Refer to the "Supplementary Description" of Bit 1 attached to Address 6 on the preceding page.
- 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.

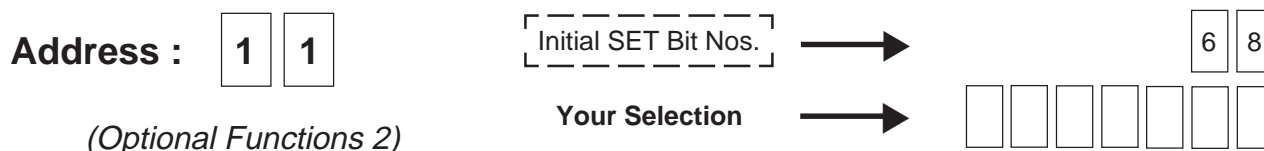


Bit No.	Content	Selective Status	
		RESET	SET
1	Tender and Total Functions in finalizing a sale in REG mode	TENDER or TOTAL	TOTAL only
2	-- vacant --		
3	Cashing with no purchase, using this key	PROHIBITED	ALLOWED
4	Over-tendering (tendering an amount larger than the sale total, resulting in calculation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

Supplementary Description for Address 8:

- 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. --

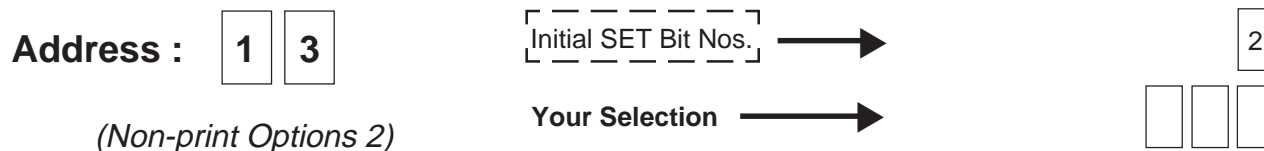


Bit No.	Content	Selective Status	
		RESET	SET
1	Short-tendering using any media key (applicable to [AT/TL] , [CHK TND] , [CHG])	<input type="checkbox"/> ALLOWED <input type="checkbox"/>	PROHIBITED
2	Sum of All Department Data on Financial Reports (in X and Z modes)	<input type="checkbox"/> NON-PRINT <input type="checkbox"/>	PRINT
3	Sum of Other Income Department Data on Financial and Cashier Reports (in X and Z modes)	<input type="checkbox"/> NON-PRINT <input type="checkbox"/>	PRINT
4	-- vacant --		
5	Electronic Journal Function	<input type="checkbox"/> NON-ACTIVE <input type="checkbox"/>	ACTIVE
6	Electronic Journal is automatically issued after taking a Daily Financial Reset Report.	NON-ACTIVE	<input type="checkbox"/> ACTIVE <input type="checkbox"/>
7	IPD (Items Print Detail) or INPD (Items Not Print Detail) on Electronic Journal	<input type="checkbox"/> IPD <input type="checkbox"/>	INPD
8	Electronic Journal Memory Warning Alarm	NON-ACTIVE	<input type="checkbox"/> ACTIVE <input type="checkbox"/>

Supplementary Description for Address 11:

- 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.
 - 5) Sales entries in the Training Mode are also stored in the Electronic Journal buffer.
- Bit 6: If SET status is selected, the Electronic Journal is automatically issued after taking a Daily Financial Reset Report. However, this bit becomes effective only when Bit 5 (Electronic Journal Function) is in SET status.
- 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 Dept/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. --

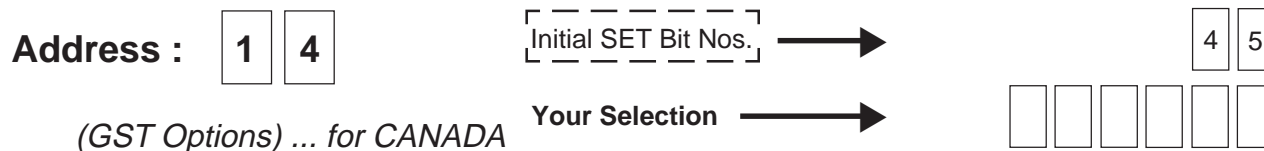


Bit No.	Content	Selective Status	
		RESET	SET
1	"Net Sale With Tax" Line on Financial Reports	<input type="checkbox"/> PRINT <input type="checkbox"/>	NON-PRINT
2	"Net Sale Without Tax" Line on Financial Reports	PRINT	<input type="checkbox"/> NON-PRINT <input type="checkbox"/>
3	Tax (PST) Amount Line(s)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

Supplementary Description for Address 13:

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).



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

Supplementary Description for Address 14:

Bit 2 & Bit 3: If both RESET, ROUND OFF status is obtained.

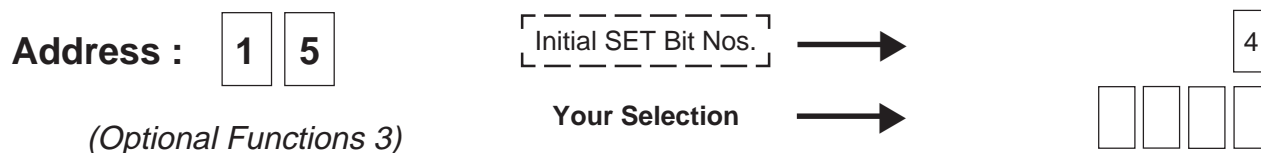
If both SET, Bit 3 status prevails, i.e., ROUND DOWN.

(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 PST 1 and PST 2 on one consolidated line or separate lines. (See Address 13 - Bit 3.)

Bit 6: If SET status is selected, PST calculation is performed on the sale amount subject to PST with GST excluded.

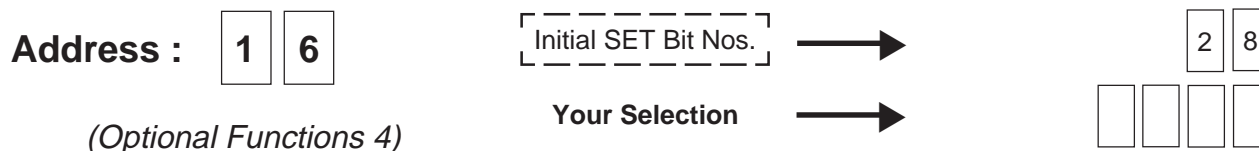
If RESET status is selected, PST calculation is performed on the sale amount subject to PST with GST included.



Bit No.	Content	Selective Status	
		RESET	SET
1	No-sale Transaction Entry After Non-add Number Print Entries	PROHIBITED	ALLOWED
2	Receipt Consecutive No. on Journal and every Receipts in any mode	PRINT	NON-PRINT
3	Receipt Consecutive No. Resetting	NON-RESETTABLE	RESETTABLE
4	Amount Display by [ST] key depression during a sale	SUBTOTAL (Sale Total excluding Taxes)	TAXABLE TOTAL (Sale Total including Taxes)
5 to 8	-- vacant --		

Supplementary Description for Address 15:

- Bit 1: RESET status Non-add Numbers cannot be printed on No-sale receipts.
 SET status Non-add Numbers can be printed on No-sale receipts.
- Bit 3: RESET status The Consecutive No. will increment every time a receipt is issued or a transaction is finalized. It is non-resettable.
 SET status When a Daily Financial Reset Report is issued, the Consecutive No. is automatically reset. On the first receipt issued after the reset report, the Consecutive No. "0001" will be printed. If this status is selected, it is recommended to take the Daily Financial Reset Report at the end of all operations on the register for the day (so that the first receipt will always start with Consecutive No. 0001 every day).
- Bit 4: RESET status This status should be selected when both [ST] and [TXBL TL] keys are installed on the keyboard. Then [ST] displays SUBTOTAL while [TXBL TL] displays TAXABLE TOTAL.
 SET status This status should be selected when only [ST] is installed but not [TXBL TL].
- (Depressing [ST] always prints (if "PRINT" option is selected at Address 1 - Bit 3) SUBTOTAL regardless of this bit status selection.)



Bit No.	Content	Selective Status	
		RESET	SET
1	Drawer-close before starting any operation	NOT COMPULSORY See NOTE below	COMPULSORY
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 for Address 16:

- Bit 1: RESET status Any operation is possible with the drawer kept open.
 SET status If any operation is attempted in REG mode with the drawer kept open, an error results and keys on the keyboard are locked.
- 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.

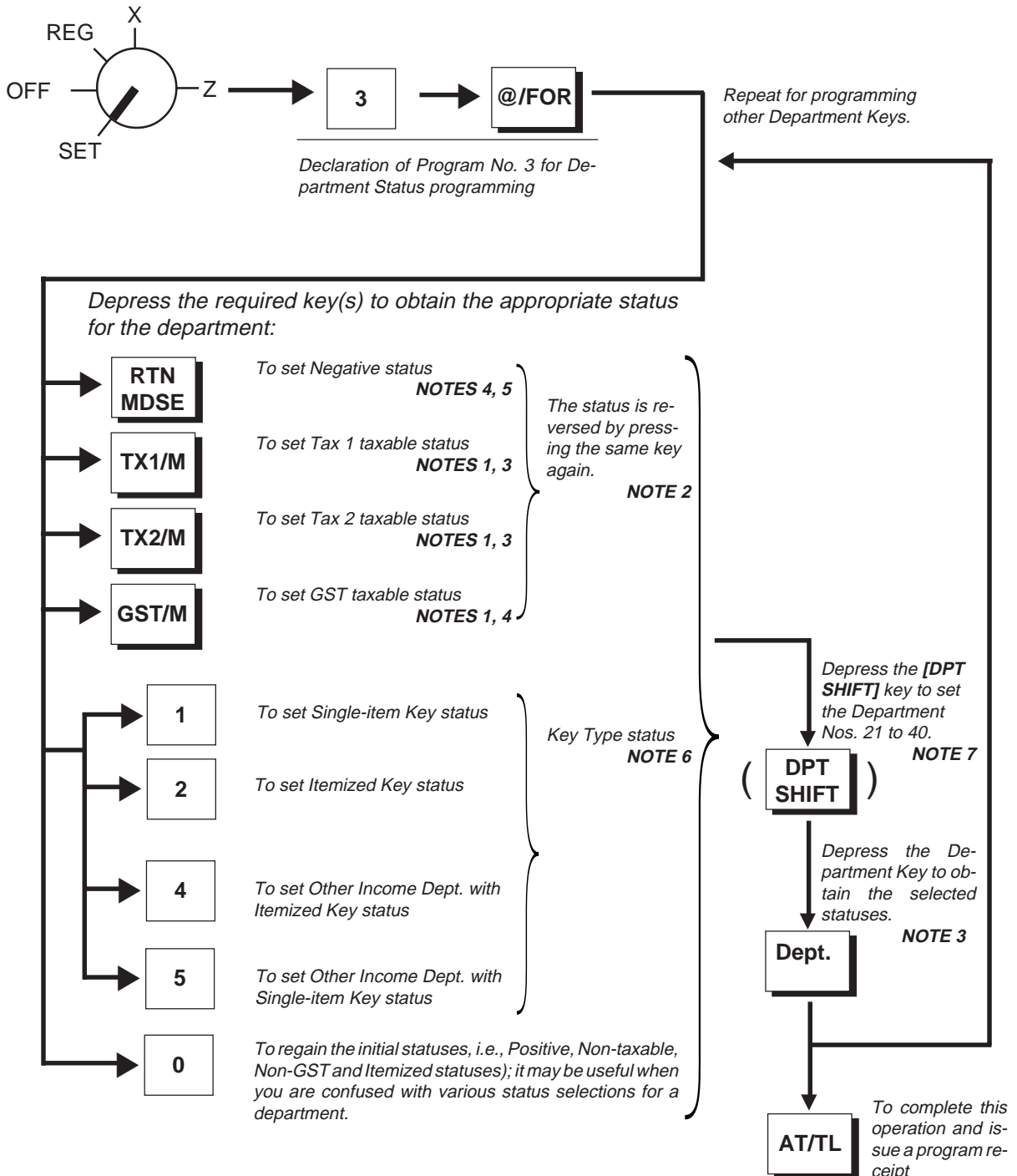
Department Status Programming:

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

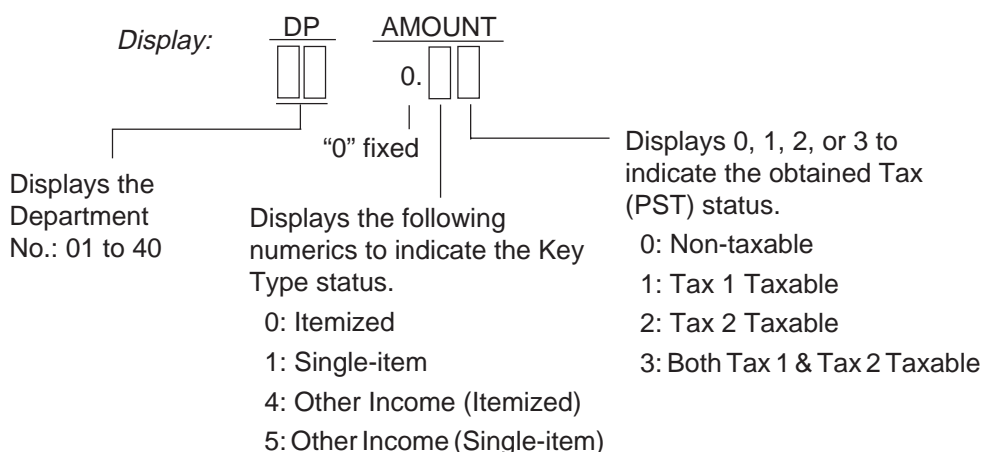
Condition: After Daily Financial Reset and Periodical Financial Reset (and All PLU Reset if the positive/negative status is to be set), or Any time outside a sale for other status changes.

Programming Procedure:

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



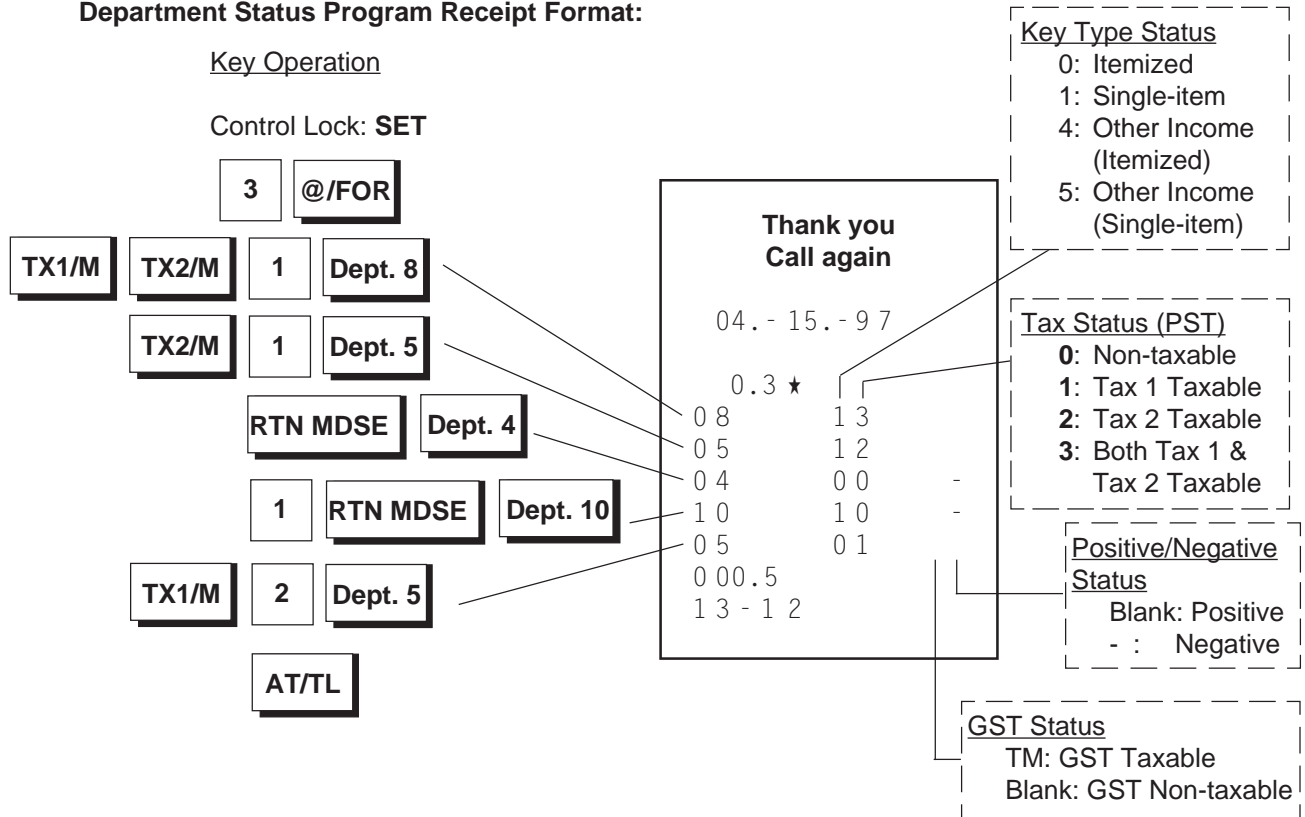
- NOTES 1.** The tax tables of "Tax 1", "Tax 2", and "GST" should be programmed in the separate programming. Those tax tables will become effective in **REG** mode for adding the taxes to sale items entered through a Department Keys only when the Department Key is programmed with taxable status for the 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.
7. To set the Department Nos. 21 to 40 (No. printed on the upper side of a Department Key Sticker), depress the **[DPT SHIFT]** key before depressing a **[DEPT]** key.
- ex.) To set the Department No. 21, operate **[DPT SHIFT]**, then **[DEPT 1]**.

Department Status Program Receipt Format:

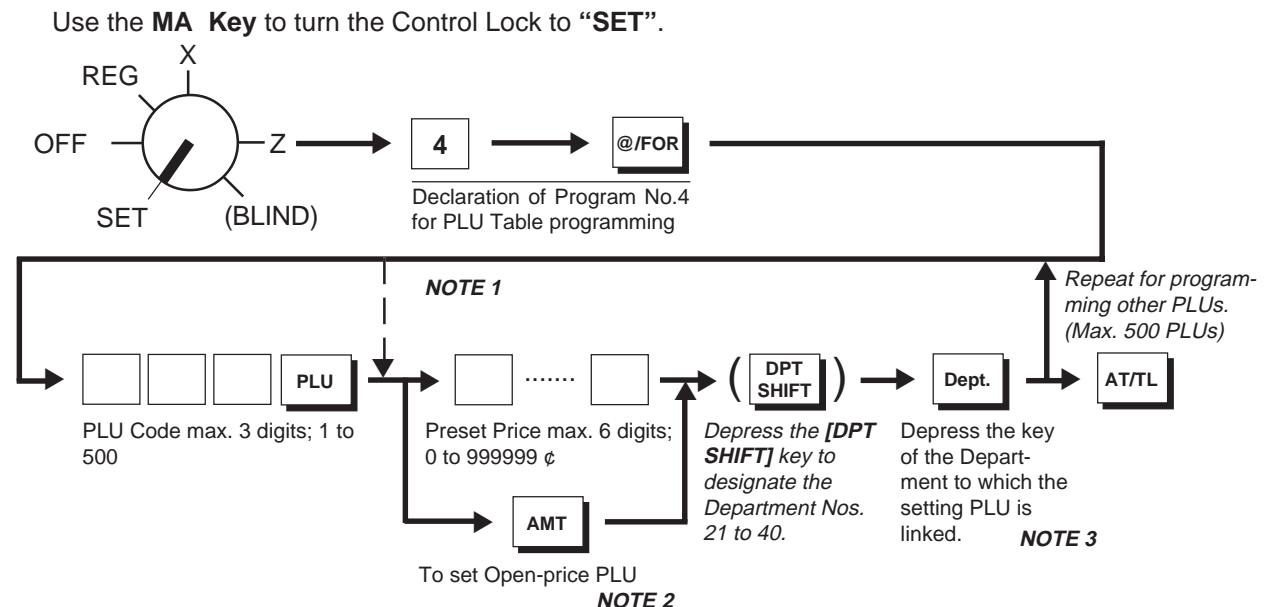


PLU Table Setting, Changing, or Deletion

Setting or Changing PLUs:

Condition: *To change setting 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 and signed off.

Programming Procedure:



- 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.
 4. When a PLU is linked to an Other Income Department, an entry of the PLU in a sale will cause an error.

PLU Table Program Receipt Format:

Key Operation

Control Lock: SET

4 @/FOR

PLU Code

Preset Price

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	0	PLU	1	0	0	0	Dept. 3	
5	0	PLU	5	0	Dept. 5				
1	0	0	PLU	3	0	0	Dept. 9		
1	5	0	PLU	AMT	Dept. 9				

AT/TL

**Thank you
Call again**

04.-15.-97

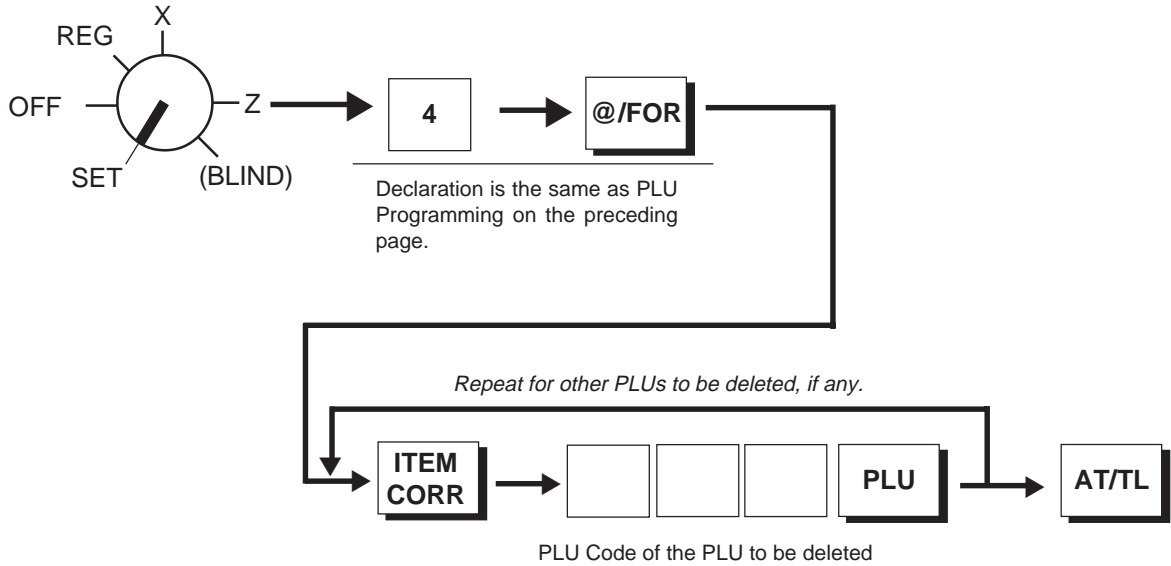
PL 00.5	0.4 ★	04	@	Link
PL 01.0	★1.00	02	@	Department No.
PL 01.1	★2.00	01	@	
PL 20.0	★ 1 23.00	03	@	Preset Price
PL 05.0	★ 10.00	05	@	Blank for Preset Price indicates that it is an Open-price PLU.
PL 10.0	★0.50	09	@	
PL 15.0	★3.00	09	@	
			@	
	00.7			Total number of PLUs set in memory
	000.6			
	13 - 14			

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)

Programming 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 “**SFKC (Selective Function Key Code) Programming**” in this chapter.)

PLU Deletion Receipt Format:

Key Operation

Control Lock: SET

4 @/FOR

PLU Code of PLU
to be deleted

ITEM CORR 1 0 PLU

AT/TL

**Thank you
Call again**

04.- 15.- 97

0.4 ★

01.0

00.6

000.7

13 - 16

PLU Code deleted

Deletion Symbol Line

Total number of PLUs remaining set in memory

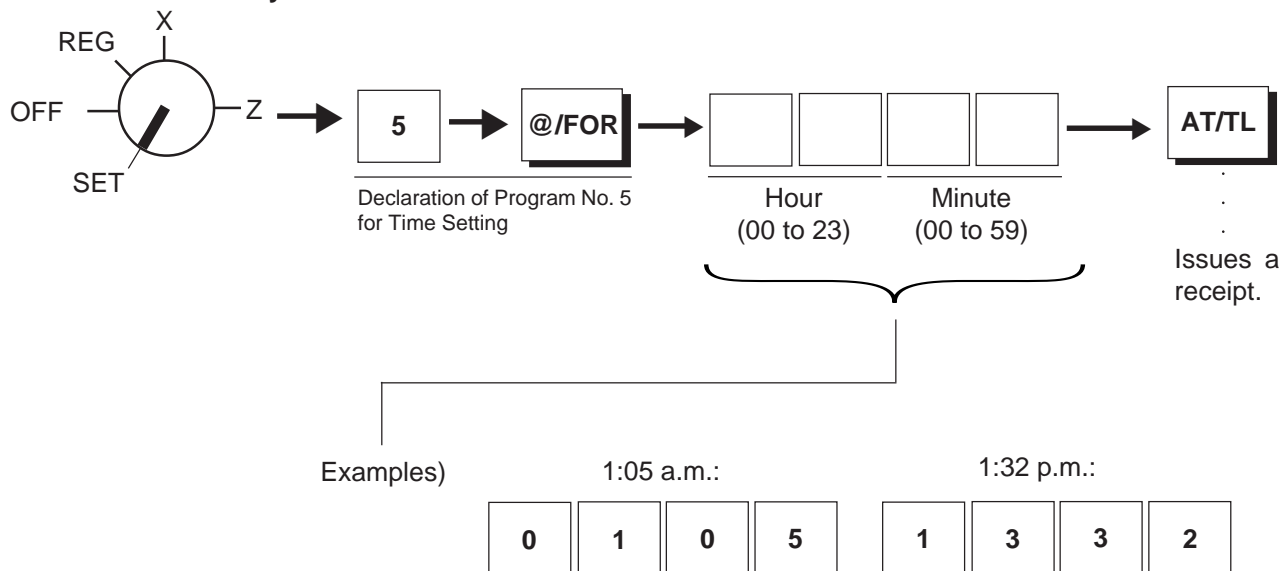
Time Setting or Adjustment

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.

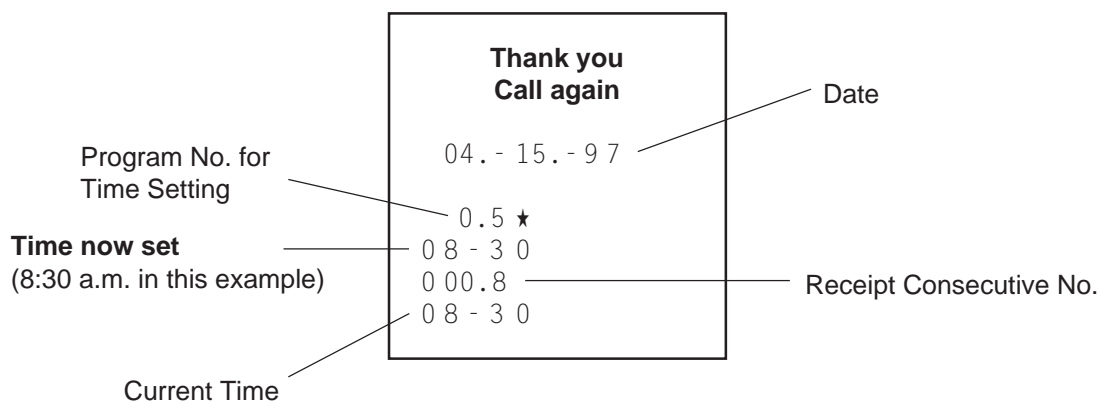
Condition: Any time outside a sale

Setting Procedure:

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



Receipt Print Format:



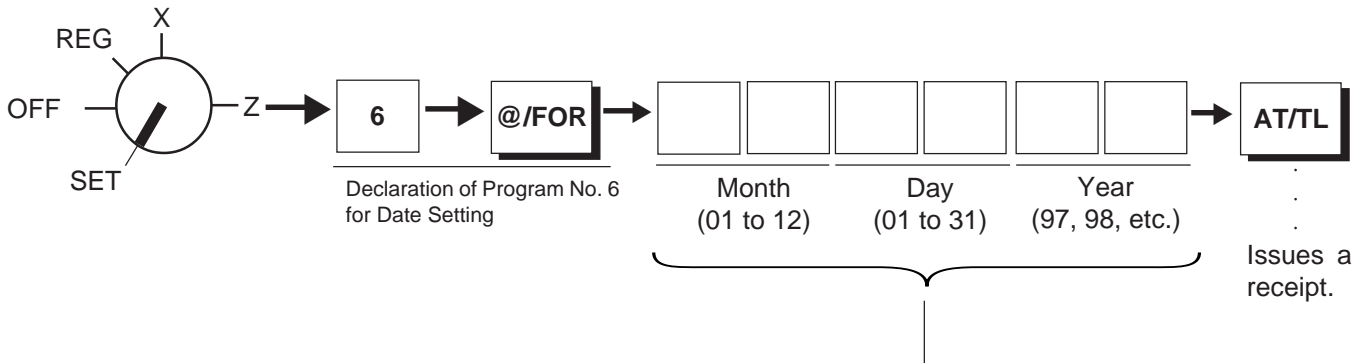
Date Setting or Adjustment

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: Any time outside a sale

Setting Procedure:

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

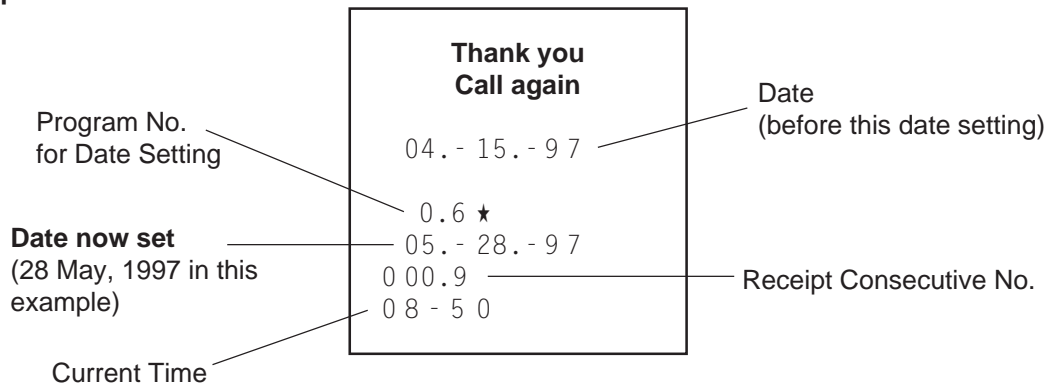


NOTE: The date set/print order is Month-Day-Year. If you want to change the order into Day-Month-Year or Year-Month-Day, see the section **System Option Setting, Address 16 - Bits 7 and 8.**

Examples) To set 28 May, 1997:

0	5	2	8	9	7	Month-Day-Year order
Month			Day		Year	
2	8	0	5	9	7	Day-Month-Year order
Day		Month		Year		
9	7	0	5	2	8	Year-Month-Day order
Year		Month		Day		

Receipt Print Format:



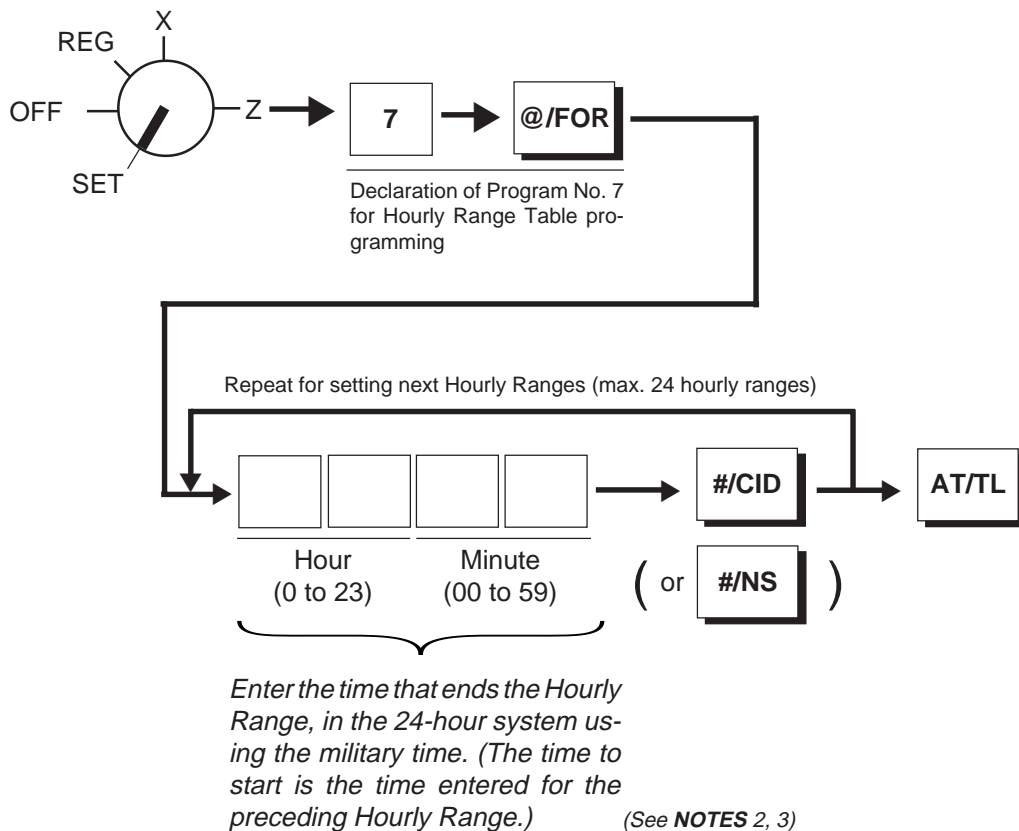
Hourly Range Table Programming

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 Ranges Table.

Condition: After Hourly Sales Reset

Programming Procedure:

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



- 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 hourly 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:



Programming 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
 16:30 to 18:00

Key Operation

Control Lock: **SET**

7 **@/FOR**

8 **0** **0** **#/CID**

9 **0** **0** **#/CID**

1 **0** **0** **0** **#/CID**

1 **3** **0** **0** **#/CID**

1 **6** **3** **0** **#/CID**

1 **8** **0** **0** **#/CID**

AT/TL

**Thank you
Call again**

05.- 28.- 97

0.7 ★

08 - 00

09 - 00

10 - 00

13 - 00

16 - 30

18 - 00

001.0

08 - 51

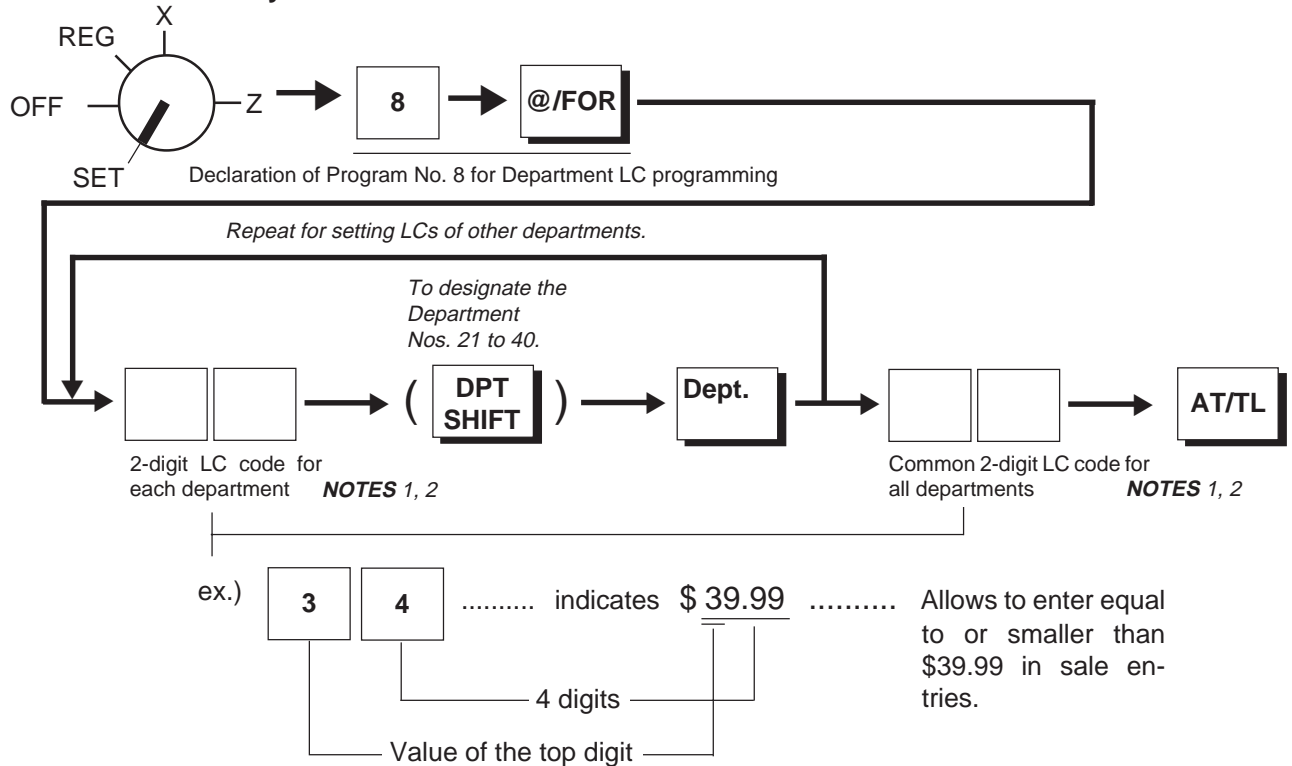
Department LC (Listing Capacity) Programming

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

Programming Procedure:

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

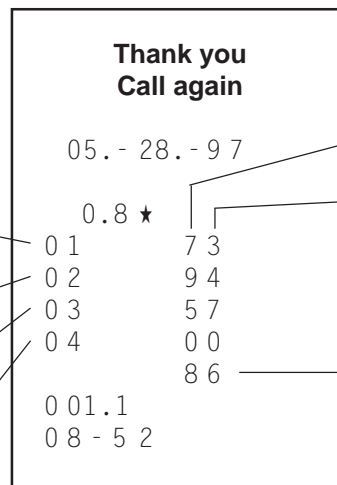
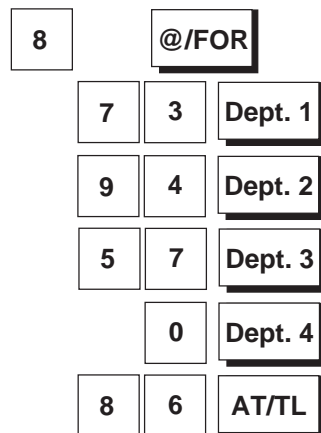


- NOTES 1.** If the individual LC of a department is set, it prevails over the common LC for all departments.
2. To reset a LC once set, enter "0" in place of the 2-digit LC code. Then a maximum of 7-digit amount can be entered in sale entries.

Department LC Program Receipt Format:

Key Operation

Control Lock: **SET**



Listing Capacity Code

Top digit value

Number of maximum digits

for each department

Common LC for all departments

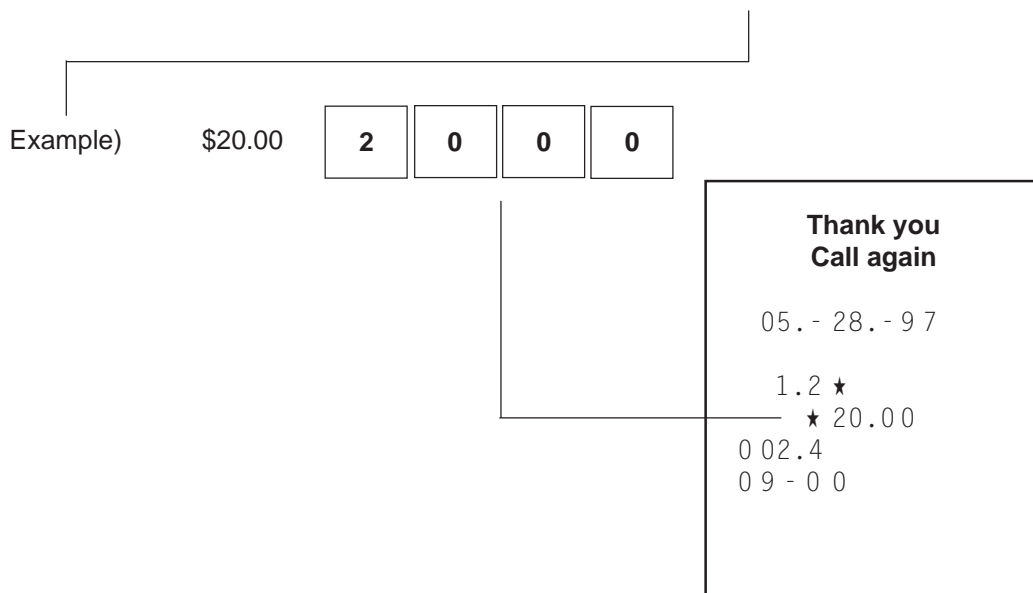
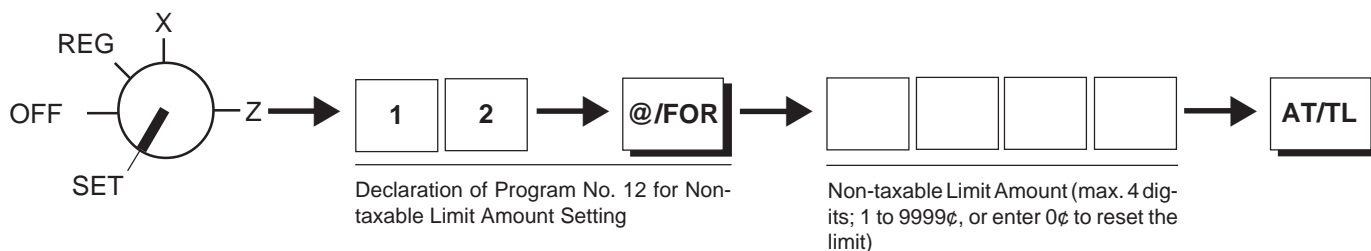
Non-taxable Limit Amount Setting (applicable to only certain areas in Canada)

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

Condition: After Daily Financial Reset

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.

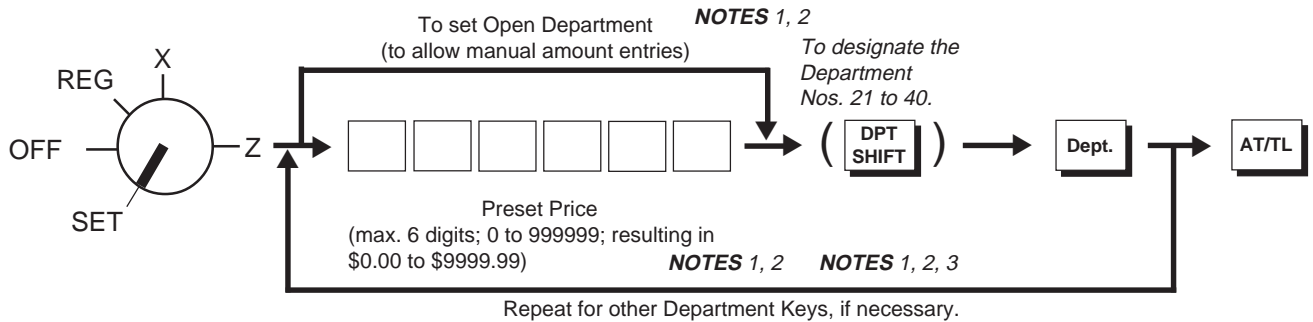
Department Preset Price Setting or Changing

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

Setting Procedure:

Use the **MA Key** to turn the Control Lock to “**SET**”.

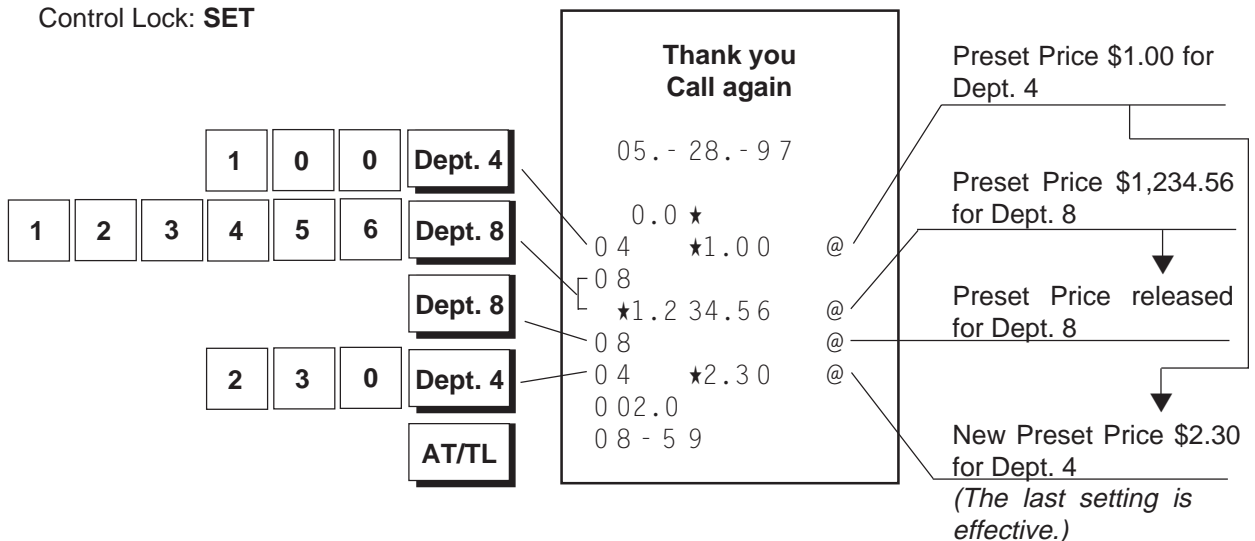


- NOTES 1.** All the Department Keys are open departments (no preset price set) as initial status.
2. If a Department Key is pressed with no Preset Price entry, the Key is set as an open-price Department Key.
3. If “0” is entered as Preset Price, the Department Key is set with Preset Price of \$ 0.00.

Department Preset Price Setting Receipt Format:

Key Operation

Control Lock: **SET**



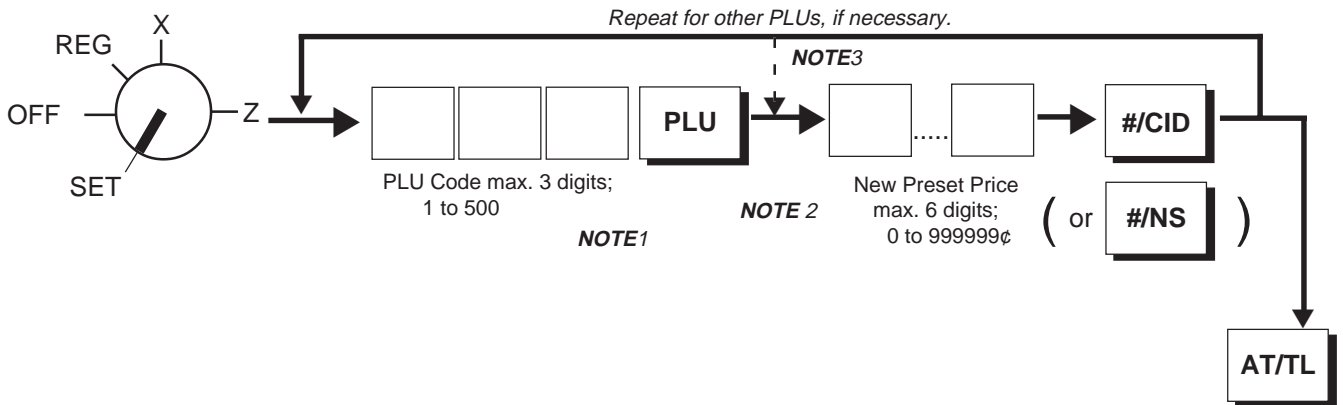
PLU Preset Price Changing

When only changing preset prices of PLUs as part of daily requirements, this operation is quicker than operating “Setting or Changing PLUs”.

Condition: Any time outside a sale

Setting Procedure:

Use the **MA Key** to turn the Control Lock to “SET”.



- NOTES 1.** The PLU Code 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.

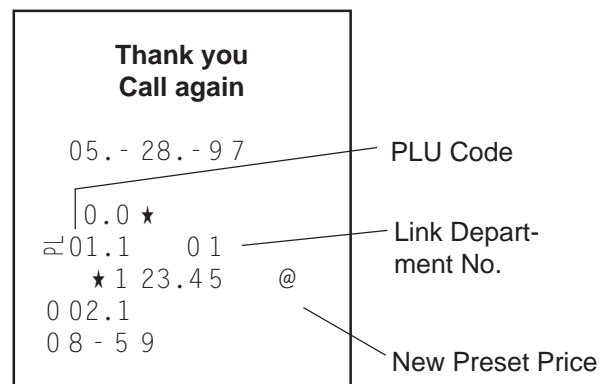
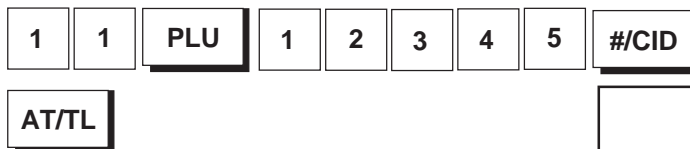
PLU Price Change Setting Receipt Format:

Key Operation

Control Lock: **SET**

PLU Code

New Preset Price

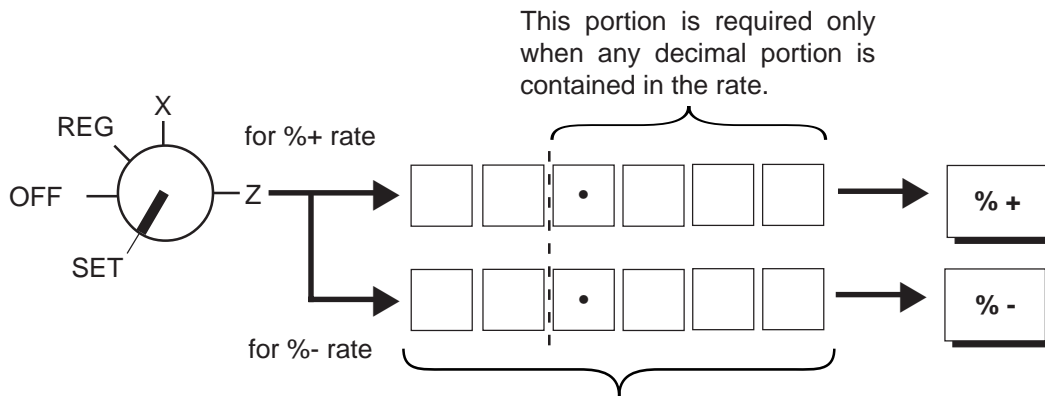


% Key Preset Rate Setting or Changing

Condition: Any time outside a sale

Setting Procedure:

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



% rate 0 to 99.999

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**

05.- 28.- 9 7

0.0 ★

10. % + — % + 10% is set.

0 01.3

0 8 - 5 4

**Thank you
Call again**

05.- 28.- 9 7

0.0 ★

5. % - — % - 5% is set.

0 01.4

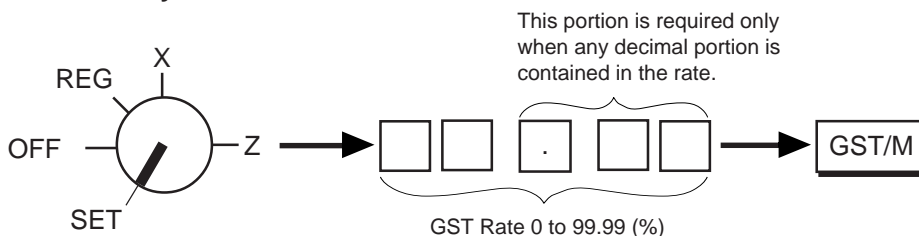
0 8 - 5 4

GST Rate Setting (applicable to Canada only)

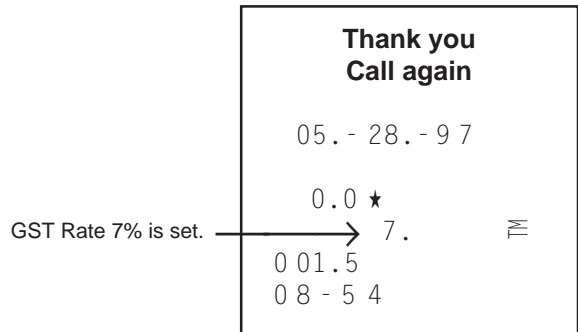
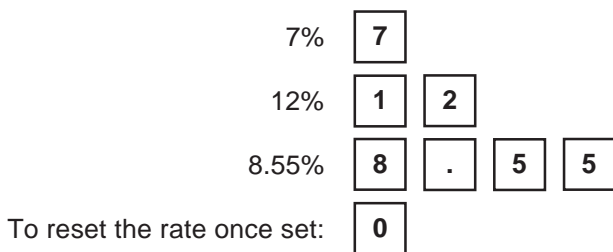
Condition: After Daily Financial Reset

Setting Procedure:

Use the **MA Key** to turn the Control Lock to “**SET**”.



Examples)



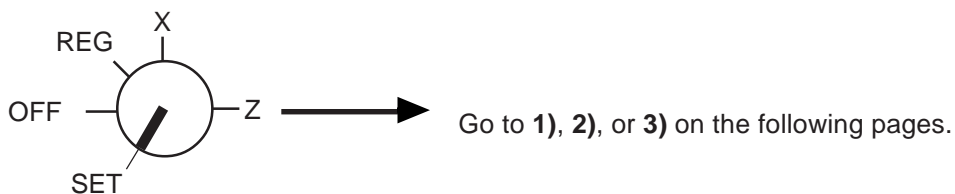
Tax Table Setting (also applicable to PST in Canada)

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

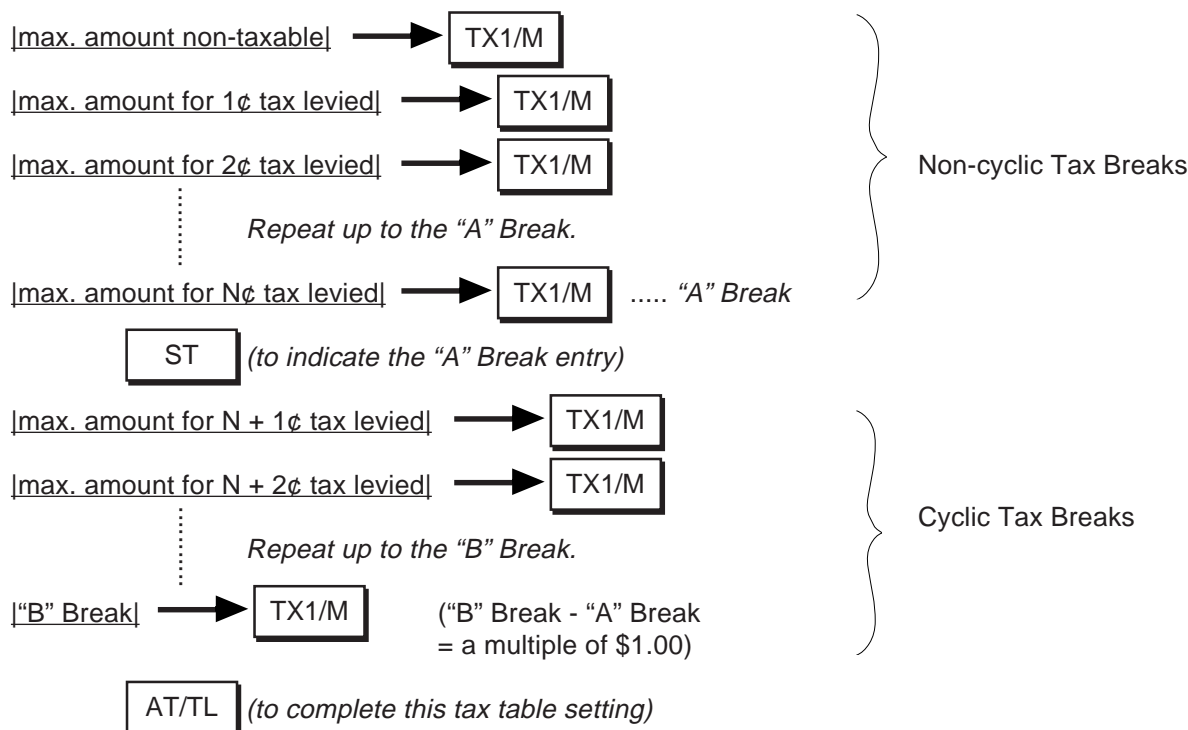
Condition: After Daily Financial Reset

Setting Procedure:

Use the **MA Key** to turn the Control Lock to “**SET**”.



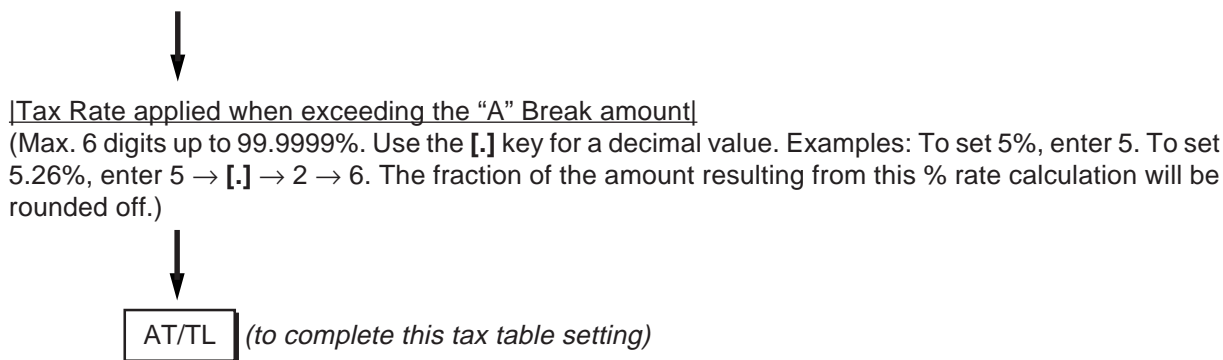
1) Tax 1; Full Breaks (Non-cyclic Breaks + Cyclic Breaks)



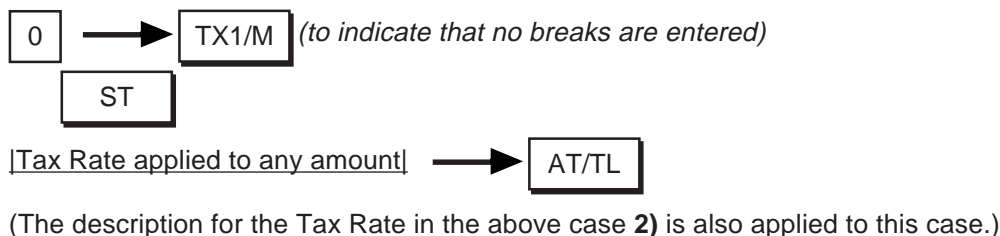
NOTE: Each amount (break) entry may be a maximum of 4-digit value (9999¢).

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



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

Tax Table		Key Operation	
		Control Lock: SET	
<u>Amount Range</u>	<u>Tax Levied</u>		
\$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**

05.- 28.- 97

0.0 ★

00 ★0.09 $\times 1$

01 ★0.29

02 ★0.59

03 ★0.84

04 ★1.12

★1.12 $\times 5$

5. %

001.7

08 - 5 4

ex. 3) Tax 1; % Rate only

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

**Thank you
Call again**

05.- 28.- 97

0.0 ★

00 ★0.00 $\times 1$

★0.00 $\times 5$

10. %

001.8

08 - 5 4

PROGRAM DATA VERIFICATION

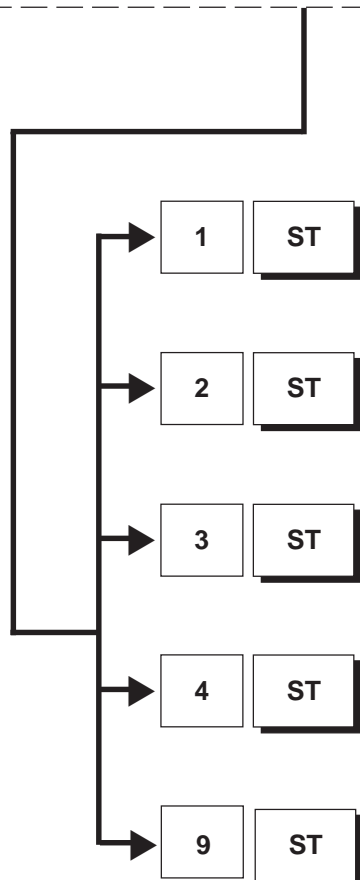
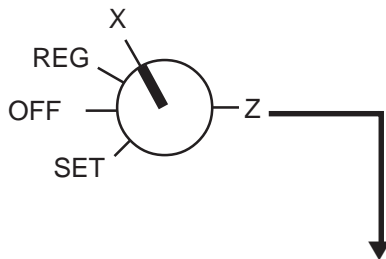
Whenever programming operations are performed, it is recommended to issue Program Verification receipts to check the programmed data before entering any other operation.

Operating Procedure

Condition: Any time outside a sale

Operation:

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



<i>Contents to be Printed for Verification</i>		<i>Format Page</i>
Department Preset Price Read: Preset Price of each Department		46
Department LC and Status Read: LC (Listing Capacity) and Status of each Department		46
PLU Table Read: Preset Price and Link Department of each PLU		47
Other Programmed Data Read: %+ & %- Preset Rates, common LC for All Departments, GST Rate, Non-taxable Amount Limit for Canada Tax		47
System Option Read: System Option Setting		48

Department Preset Price Read

Thank you Call again		
05.-28.-97		
Department No.		X
01		@
02		@
03		@
04	★1.00	@
05	★2.00	@
06		@
07		@
	★6.6 66.66	@
08		@
09		@
10		@
001.7		
09-02		

Read Symbol
(same as some Read Reports)

Preset Price
(Those with blank price are Open-price Departments.)

NOTE:
For changing the preset price or the Open-price/Preset-price status of any department, refer to **“Department Preset Price Setting or Changing”** in the preceding chapter.

Department LC and Status Read

Thank you Call again		
05.-28.-97		
Department No.		X
01	01.73	
02	02.94	
03	00.57	
04	00.00	-
05	00.00	
06	00.00	
07	10.00	
08	10.00	
09	00.00	TM
10	10.00	-
001.8		
09-03		

Key Type Status
0: Itemized
1: Single-item
4: Other Income (Itemized)
5: Other Income (Single-item)

Tax Status (PST Status)
0: Non-taxable
1: Tax 1 Taxable
2: Tax 2 Taxable
3: Tax 1 and Tax 2 Taxable

Positive/Negative Status
-: Negative
Blank: Positive

NOTE:
For changing the status or LC of any department, refer to **“Department Status Programming”** and **“Department LC Programming”** in the preceding chapter.

GST Status
TM: GST Taxable
Blank: GST Non-taxable

Individual Department LC

PLU Table Read

Thank you Call again		
05. - 28. - 9 7		
PLU Code		X
PL 00.5	0 4	
	★1.00	@
PL 01.1	0 1	
	★1 23.45	@
PL 05.0	0 5	
	★0.50	@
PL 06.0	1 0	
	★3.00	@
PL 07.0	0 3	
		@
PL 07.1	0 8	
	★8.00	@
PL 07.2	0 9	
	★9.00	@
PL 19.9	0 3	
	★ 10.00	@
0 01.9		
0 9 - 0 4		

Link Department No.

Preset Price
(Blank means that it is an Open-price PLU.)

NOTE:

For changing the programmed data of PLUs, refer to the following sections in the preceding chapter:

- **PLU Table Setting, Changing or Deletion** (for any change)
- **PLU Preset Price Changing** (for Preset Price changing only)

Other Programmed Data Read

Thank you Call again		
05. - 28. - 9 7		
		X
	8 6	
10.	% +	
10.	% -	
7.	T M	
★ 20.00	T M	
0 10.3		
0 9 - 0 5		

Common LC for All Departments

%+ Preset Rate

%- Preset Rate

GST Rate (if GST Feature is selected)

Non-taxable Amount Limit (Canada Tax)

NOTE:

For changing the programmed data, refer to the following sections in the preceding chapter:

- **Department LC Programming**
- **% Key Preset Rate Setting or Changing**
- **Non-taxable Limit Amount Setting**
- **GST Rate Setting**

System Option Read

Thank you Call again	
05. - 28. - 97	
Address No.	X
01	26
02	78
03	0
04	0
05	0
06	0
07	0
08	13
09	1
10	0
11	0
12	68
13	0
14	2
15	45
16	4
	28
	002.2
	09 - 08

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

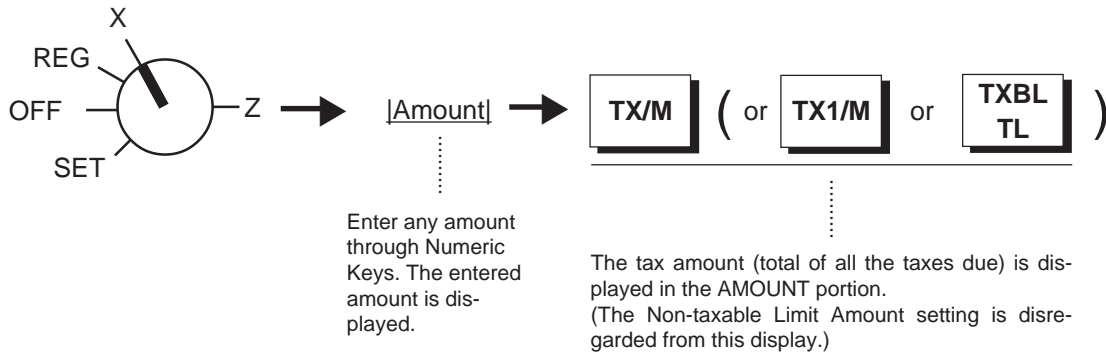
For changing any System Option status, refer to “**System Option Setting**” in the preceding chapter.

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".





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