

TEC

TEC Electronic Cash Register

MA-216-100 SERIES

Owner's Manual



TOKYO ELECTRIC CO., LTD.

WARNING

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

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. TO OUR CUSTOMERS

Thank you for choosing the TEC electronic cash register MA-216 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, please contact your local TEC representative.

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

2. PRECAUTIONS

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

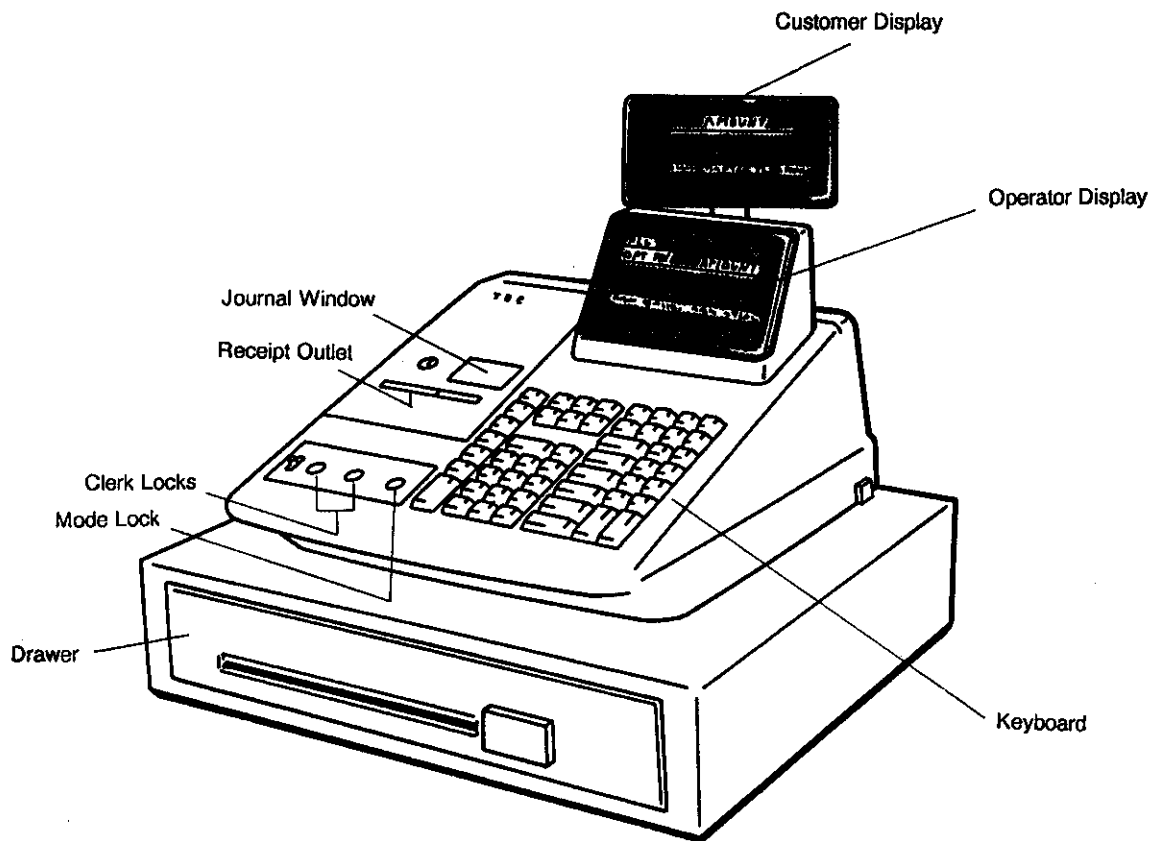
REMARKS ON THE LOCATION

- Place it where no unusual temperature changes are expected.
- Place it on a flat and level surface with little dust, humidity, vibration, etc.
- Keep it away from water sources.
- Do not use it in direct sunlight for a long time.
- Ensure proper ventilation so that the machine is not exposed to excessive heat.
- Be certain to connect a grounding wire to prevent the generation of static electricity and noise troubles. Never share the same power outlet with many other electric appliances.

REMARKS ON OPERATING THE ECR

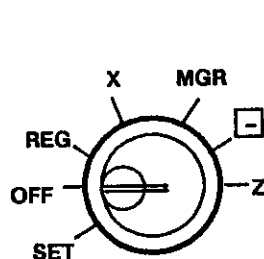
- The keys on the keyboard function with a light touch. Avoid pressing the keys too hard.
- Do not handle the machine with wet hands, since this may cause electrical malfunctions and corrosion of parts.
- Do not apply thinner, benzine, or other volatile materials to the cabinet or other plastic parts. Such liquids will cause discoloration or deterioration of the cover. If dirty, wipe off with a piece of cloth soaked in a neutral detergent and wrung out thoroughly.
- Ask your TEC representative to provide periodical maintenance to ensure the optimum performance of the machine.
- As for other operations, follow the instructions in this manual.

3. APPEARANCE AND NOMENCLATURE



4. MODE LOCK AND CLERK LOCKS

4-1 MODE LOCK



(POSITION)	(FUNCTION)
SET	.... In this position, the register will allow programming operations.
OFF	... The register operations are locked when the Mode Lock is in this position.
REG	... Normal cash register operations are carried out in this mode. However the operations requiring a Manager Intervention cannot be performed in this mode.
X	..... The sale totals in memory can be read and the programmed data can be verified in this position.
MGR	... This position allows to register all normal cash register operations to be carried out in the "REG" mode and the operations requiring a Manager Intervention.
<input type="checkbox"/>	... This is the "Negative Mode", which automatically processes all the entries in the reverse way, i.e. positive items into negative, and the negative into positive. It is usually used to return or cancel all the items once purchased in a sale in the "REG" or "MGR" mode.
Z	..... All the resettable totals and their respective counters in memory will be read <u>and</u> reset in this position.

REG Key: The REG Key is used by the cashier or clerk who operates the register. This key can access the positions of **OFF** and **REG**.

MGR Key: The MGR Key is used by the store manager or a person authorized by the manager. This key can access the positions of **OFF**, **REG**, **X**, and **MGR**.

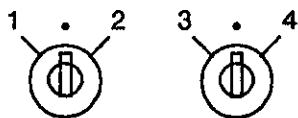
MA Key: The MA Key is used by the store manager who will daily supervise the collection of money and the printout of transactions recorded by the register. This key can access the positions of **OFF**, **REG**, **X**, **MGR**, , and **Z**.

SET Key: The SET Key is used by the programmer. This key can access the positions of **OFF** and **SET**.

The keys may be inserted or pulled out at the "**OFF**" or "**REG**" position.

4-2 CLERK LOCKS

Key-lock Type (Standard)

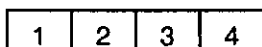


These locks are used to identify which clerk is operating the register.

Clerk Keys (1, 2, 3, 4)

Each clerk should keep his/her clerk key. The register will not operate unless one of these keys is inserted and set to the correct position in the Clerk Locks. Each of the keys may be inserted and pulled out in the neutral position marked with the dot.

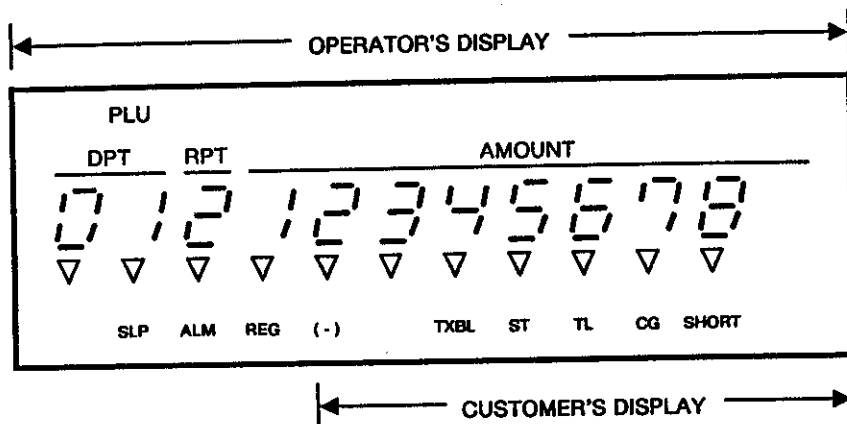
Push-key Type (Alternative Option)



This type may be installed in place of the standard key-lock type mentioned above, as an alternative option. Each clerk is assigned his/her own clerk key (1 to 4). The register will not operate unless one of these keys is pushed down.

5. 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 as Rear Display if it is kept in the receptacle or used as Remote Display if it is stretched up and turned to the required direction. The display has two types of display - - numeric display and message descriptors.



NUMERIC DISPLAY

- AMOUNT (8 digits) :** Displays the numeric data, such as amount, quantity, etc.
- DPT (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; the DPT and RPT digits are commonly used for this purpose.):** Displays the PLU code when any PLU is entered. It goes out when repeating the same PLU entry.

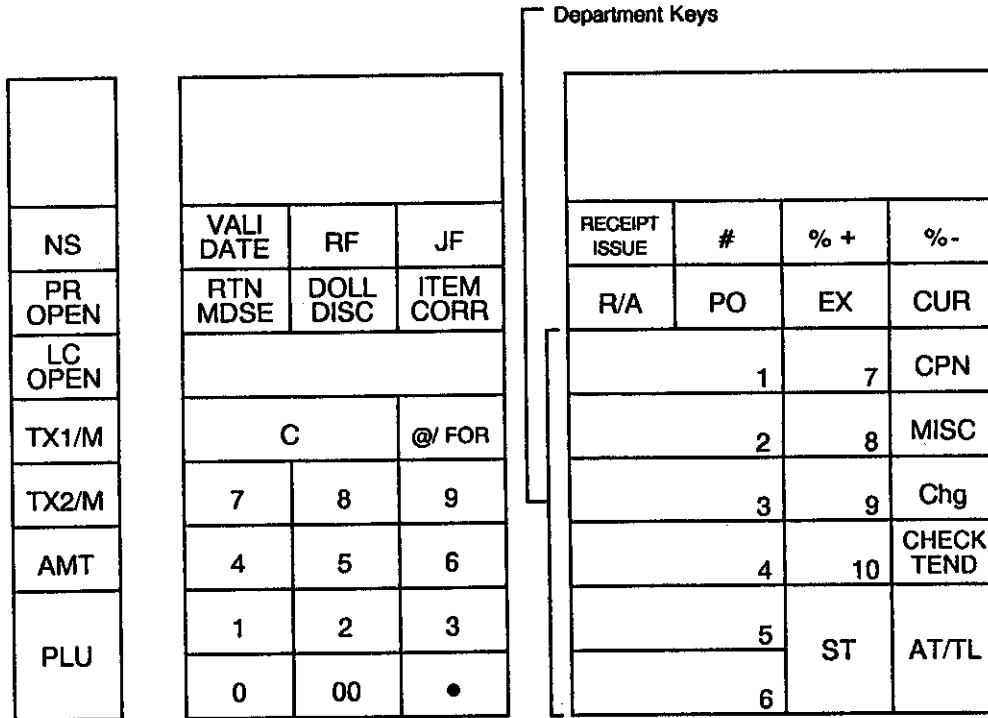
MESSAGE DESCRIPTORS (TRIANGULAR INDICATORS)

- SLP :** Lights up when a slip has properly been inserted to allow validation.
- ALM :** Lights up 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.
- REG :** Lights up when a sale item has been entered.
- (-) :** Lights up when the **[RTN MDSE]**, **[DOLL DISC]**, **[% -]**, or **[ITEM CORR]** key has been operated. It also lights up when the **[ST]**, **[TXBL TL]**, or one of the total keys has been depressed and the displayed amount is negative. It lights up also when an amount is entered in the " " mode.
- TXBL :** Lights up when a taxable item has been entered. It also lights up when the **[TXBL TL]** key is depressed, indicating that the amount displayed is the sale total plus tax due (in which case the "ST" lamp also lights up). This "taxable total display" function is also applied when the **[ST]** key is depressed if the option "Taxable Total Display on[ST] Key Depression" is selected.
- ST :** Lights up when the subtotal amount is displayed after the **[ST]** key has been depressed.
- TL :** Lights up on a finalizing operation with the total amount displayed when a sale is finalized without any amount tendered.
- CG :** When an amount tendering operation has been performed, this lamp lights up with the change due displayed.
- SHORT :** Lights up when the amount tendered is less than the sale total with the shortage amount displayed.

6. KEYBOARD LAYOUT

The following are typical keyboard layout for the MA-216 series. Since this series is designed to be capable of programming most of the keys to be placed in the desired place on the keyboard, this is merely an example. The keyboard of your register should have its own layout according to the store's requirements.

--- Standard Keyboard Layout ---



Other keys not placed in the keyboard above :

Additional Department Keys (11 to 30)

[OPEN]	[#/NS]
[TXBL TL]	[TAX]
[#/CID]	[CUR 2] to [CUR 4]

7. FUNCTION OF EACH KEY

On the following pages are brief descriptions of the function of each key. Actual operating procedures and print samples are introduced in the next chapter.

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	Page		Page
[RECEIPT ON/OFF]	9	[DOLL DISC]	14
[RECEIPT ISSUE]	9	[% +]	14
[RF]	9	[%-]	14
[JF]	9	[ITEM CORR]	15
NUMERIC KEYS	10	[R/A]	15
[.]	10	[PO]	15
[NS]	10	[ST]	15
DEPARTMENT KEYS	10	[TXBL TL]	16
[PLU]	11	[AT/TL]	16
[C]	12	[CHECK TEND]	17
[#], [# /CID]	12	[Chg]	17
[#/NS]	12	[MISC]	17
[AMT]	12	[CPN]	17
[PR OPEN]	13	[VALIDATE]	18
[LC OPEN]	13	[TX1/M] [TX2/M]	18
[OPEN]	13	[EX]	18
[@/FOR]	13	[CUR]	19
[RTN MDSE]	14	[TAX]	19

RECEIPT

ON



OFF

RECEIPT ON/OFF SWITCH ([RECEIPT ON/OFF])

This switch two positions available: the 'OFF' position and 'ON' position. When in the 'OFF' position, no receipt is issued from the register and sales are printed on the journal roll only. When the switch is set to the 'ON' position, sales are printed on both receipt roll and journal roll, then a receipt is issued which is given to the customer.

**RECEIPT
ISSUE****RECEIPT POST-ISSUE KEY ([RECEIPT ISSUE])**

This key is used to issue the receipt of a sale when the sale has already been finalized with the [RECEIPT ON/OFF] switch positioned to OFF.

This key will not function if another sale is already under way.

The post-receipt may be an itemized receipt (i.e. all sale items and the total are printed, just as for an ordinary receipt) or a total-only receipt according to a program option selection.

POST-RECEIPT PRINT FORMAT:

Option: Itemized Receipt	—	Itemized Print	...	when the sale contains not more than 20 items.
		Total-only Print	...	when the sale contains more than 20 items.
Option: Total-only Receipt	—	Total Print	...	regardless of the number of items in the sale.

RF**RECEIPT FEED KEY ([RF])**

This key is used to advance the receipt roll. It is operated by depressing the key and holding it in that position until the paper has advanced to the required position. This key is effective even when the [RECEIPT ON/OFF] switch is in the 'OFF' position.

JF**JOURNAL FEED KEY ([JF])**

This key is used to advance the journal roll in the same fashion as the [RF] key. These keys are useful if the operator, due perhaps to an interruption while ringing up a sale, is unsure which items have already been entered. By using the feed key the operator can see which figures have actually been printed.

The [RF] and [JF] keys cannot be operated simultaneously.

7	8	9
4	5	6
1	2	3
0	00	

NUMERIC KEYS (| _____ |)

These keys are used to enter numeric values such as amount, quantity, or code number.

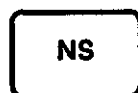
The maximum numeric entry digits vary according to each item or operation. Depressing the [00] key once is the same as depressing the [0] key twice consecutively.



DECIMAL POINT KEY ([.])

This key used, as part of numeric keys, to designate the decimal point position when entering a percent rate (through [% +] or [% -]) or a quantity (through [@/FOR]). For example, to enter 0.5%, index 0 → [.] → 5, or [.] → 5. A maximum of three digits may be entered below the decimal point.

When entering a price or amount such as \$0.25 just index 2 → 5. In this case, depression of the [.] key is not necessary and will cause an error.



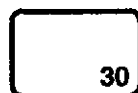
NO SALE KEY ([NS])

This key is used to open the cash drawer while the machine is outside a sale. To operate, depress this key once. This function is usually used to break a big bill, or to check the receipt and journal print condition.

A non-add number may usually not be entered prior to a no-sale operation within one receipt sequence. However, it can be programmed to allow a no-sale operation after a non-add number entry.



}



DEPARTMENT KEYS ([DEPT])

These are department keys through which sales items are registered. A maximum of 30 keys may be installed. Each of these keys may be programmed as either an 'OPEN' or 'PRESET' key.

(1) OPEN DEPARTMENT KEY ([Open DEPT])

A department key which has no preset price programmed is an 'OPEN' key and it is necessary to enter a price manually each time. The price is rung up on the numeric keyboard and the appropriate department key is depressed. The price is then displayed and printed on the receipt and journal roll.

When the same department key is depressed more than once consecutively after a price entry, the price entry is repeated as many times as the department key is depressed.

(2) PRESET DEPARTMENT KEY ([Preset DEPT])

A preset key is a key which already has a price programmed in it. It is therefore unnecessary to enter the price of an item; simply depress the key to register the sale of one item.

If a price different from the preset one must be entered through numeric keys into a preset department, depress the [PR OPEN] or [OPEN] key before the price entry, followed by the department key.

Single-item Departments

If a department is programmed as Single-item, the department entry sequence will immediately finalize the sale as cash sale without operating any of the media keys when operated outside a sale (i.e. when no other items have been entered within one receipt sequence). The Single-item Department will function, however, just as an ordinary itemized department if operated inside a sale.

PLU

PLU (Price-Look-Up) KEY ([PLU])

A "PLU" is an individual merchandise item programmed with its own item code (PLU Code) and its link department. Each PLU can be programmed to a "Preset PLU" (to auto-enter the preset price) or an "Open PLU" (to enforce a price entry through the numeric keys each time)

To enter a Preset PLU:

| PLU Code | → [PLU] ... The preset price will automatically be read and entered.

Max. 3 digits (1 to 999)

To repeat the same PLU price, depress the [PLU] key only, after the above operation.

To enter an Open PLU:

| PLU Code | → [PLU] → | Price | → [AMT]

⋮

The price indexed through the numeric keys will be entered. To repeat the same PLU price, depress the [AMT] key only, after the above operation.

C

CLEAR KEY ([C])

This key is used to clear a numeric entry or a declaration key (such as [RTN MDSE]) entry if prior to depressing a motorized key (a key to execute printing of the entry, such as [DEPT] or media keys), or to correct any error condition and cancel the alarm.

If the [C] key is depressed after a subtotal is once obtained, the subtotal amount is again displayed. If the sale total plus taxes is once obtained by the [TXBL TL] key or the [ST] key with the "Taxable Total Display" option, depressing the [C] key there will display the sale total plus taxes.

#

**NON-ADD NUMBER PRINT ([#]),
NON-ADD NUMBER PRINT/ CASH IN DRAWER KEY
([#/CID])**

#/CID

This key is used to print a non-add number (such as Check No., Credit Card No., etc.) on the receipt and journal for future reference.

To operate, enter a maximum 8-digit number (the preceding zeros will not be printed if any entered), and then depress [#]. The number is then printed. This operation may be performed any time between sale items, before or after all the sale items if the sale has not been finalized yet. The numbers thus printed will not affect the sale total.

#/NS

NON-ADD NUMBER PRINT/ NO-SALE KEY ([#/NS])

This is a dual-function key that has both [#] and [NS] key functions. If depressed with a prior numeric entry, it will function as the Non-add Number Print Key.

If depress without a prior numeric entry when the register is outside a sale, it will function as No-sale key.

AMT

AMOUNT KEY ([AMT])

This key is used to enter an amount or price for an open PLU. Refer to the description of the [PLU] key (page 11).

**PR
OPEN**

PRESET OPEN KEY ([PR OPEN])

This key is used to modify the status of a preset department. When the [PR OPEN] key is depressed prior to operating a preset department, the preset department is reversed to an open department and this allows an amount entry through the numeric keys for that item only.

This key cannot be used to reverse a preset PLU to an open PLU.

**LC
OPEN**

LISTING CAPACITY OPEN KEY ([LC OPEN])

This key is used to release the listing capacity preprogrammed on each department (or on each open PLU linked to the department accordingly). To operate, depress [LC OPEN] before operating the department (or the PLU).

By depressing the [LC OPEN] key, the HALC (High Amount Listing Capacity) of the department or PLU will be released to allow a numeric entry with two more digits.

In order to allow an amount entry exceeding the value defined above, a Manager Intervention is necessary.

OPEN

PR-AND-LC OPEN KEY ([OPEN])

This is a dual-function key that has both [LC OPEN] and [PR OPEN] functions. By depressing this key once, both of these functions are available.

@/FOR

AT-FOR (QUANTITY EXTENSION AND SPLIT-PACKAGE PRICING) KEY ([@/FOR])

This key is used to multiply a department or PLU item entry by a quantity (Multiplication Function). This key is also used to auto-calculate and enter a split-package price of a department item (in such a case as a customer wants only two of five tomatoes in one package; Split Price Function).

The basic order of multiplication is:

| QUANTITY | → [|@/FOR|] → | UNIT PRICE |

As for details of multiplication and split pricing for various cases, refer to the next chapter.

**RTN
MDSE**

RETURNED MERCHANDISE KEY ([RTN MDSE])

This key is used to refund money to a customer who has returned items already purchased.

To operate, depress this key before ringing up the amount to be refunded, and then operate the appropriate department (the department operation sequence may be replaced by a PLU entry sequence). The amount is automatically printed and deducted from the bill.

The [RTN MDSE] key can usually be used outside as well as inside a sale.

**DOLL
DISC**

DOLLAR DISCOUNT KEY ([DOLL DISC])

This key is used to subtract an amount from the sale such as a discount during a sale. An amount exceeding the sale total cannot be entered unless the "Credit Balance" option is selected.

To operate, enter the discount amount and then depress the [DOLL DISC] key. It may be operated after a [ST] key depression (Discount from Sale) or after individual Department or PLU item entry (Discount from Department).

% +

PERCENT CHARGE KEY ([% +])

This key is used to add a percent rate to a sale. If the preset percent rate is to be added, depress the [% +] key without a prior numeric entry. If a rate different from the preset one is to be added, enter the desired rate on the numeric keyboard and then depress the [% +] key. The manual rate will then be added.

Use the [% +] key after a department, PLU, if only that item requires the percent addition, or after the [ST] key if required on the total bill. The percentage rate and the amount are printed and will be added to the sale total.

The percent rate may be within the range from 0.001 to 99.999%.

Usually a % key operation after a subtotal is once obtained is allowed only once. However, it may be programmed to allow more.

%-

PERCENT DISCOUNT KEY ([%-])

This key operates in the same fashion as the [% +] key except that operation will subtract from instead of adding to a sale.

**ITEM
CORR**

ITEM CORRECT KEY ([ITEM CORR])

This key is used to remove the last item from a bill, printing a line through the item on the receipt and journal.

To operate, simply depress the [ITEM CORR] key immediately after the wrong item is entered and printed.

The item-correct function is effective even when a [C] key depression to clear a numeric entry is inserted between the line to be corrected and the [ITEM CORR] key depression. But when the [C] key is operated to cancel an error, the item-correct is no longer effective to delete the last item.

The [ITEM CORR] key will function to correct to any last item entered through a Department, PLU, [% +], [%-], [DOLL DISC], [R/A], [PO], or [TAX] (Manual Tax Entry).

R/A

RECEIVED-ON-ACCOUNT KEY ([R/A])

A received-on-account transaction is used to identify money which is in the drawer but not due to business. The amount entered is thus included in the in-drawer Total memories but not in the sales total memories.

To operate, enter an amount of payment and then depress the [R/A] key. Repeat this operation if multiple payments are recorded within one receipt. The payments entered are finalized by the [AT/TL] key if paid in cash. Other media keys also finalize such payments if so programmed. The above operation sequence can only be performed when the register is outside a sale.

PO

PAID-OUT KEY ([PO])

A paid-out transaction is used when an amount of money is removed from the cash drawer without relating to a sale, for the purpose of paying wholesalers, etc. When the [PO] key is used, the amount entered is subtracted from the Cash-in-drawer Total memory but not sales totals.

To operate, enter an amount to be taken from the cash drawer and depress the [PO] key whilst the register is in an out-of-sale condition. This operation may be repeated if multiple paid-out items are registered in one transaction. The paid-out amounts are finalized by the [AT/TL] key only (i.e., must always be paid out in cash).

ST

SUBTOTAL KEY ([ST])

This key is used to obtain the subtotal amount (sale total pre-taxed) during a sale. When this key is depressed after all the items have been rung up, the subtotal of the sale is printed and displayed.

If the [ST] key is depressed more than once consecutively, the first depression only will print and display the subtotal; further depressions will only display but not print the subtotal amount.

TXBL TL

TAXABLE TOTAL KEY ([TXBL TL])

This key is used to display the contents of the sale total plus any taxes due. The amount will only display but not print.

In order to allow add-on operations following the use of this key, the taxes are not added into any total memories until actual finalization is initiated.

Mandatory depression of this key prior to finalizing a sale is a program option.

AT/TL

CASH AMOUNT TENDERED / CASH TOTAL KEY ([AT/TL])

-- Cash Media Key

This key is used to record all cash paid on transactions, and will be able to finalize a sale operation. Usually this key is programmed to function as both "Tender" and "Total" key. However, the key may be programmed to operate only with enforced tendering or only as a cash total key.

TENDER FUNCTION

After the [ST] key is depressed, enter the amount tendered by the customer in payment of the sale, and then depress the [AT/TL] key. The change is automatically computed, displayed, and printed.

If the amount tendered is smaller than the sale total, it prints the amount tendered on the receipt with the balance due displayed, but the drawer is not yet opened. In this case, ask the customer for additional payment in cash and repeat the same amount-tendering operation, or use another media key if the balance due is processed as a sale in that media.

NOTE: *Even if [AT/TL] is programmed to function as Tender-only key and the sale total is zero or negative, no amount tendered can be entered. In this case, [AT/TL] will function just as the Total key, so just depress [AT/TL] to obtain the total and finalize the sale. The balance in negative indicates that the amount must be paid back to the customer in cash.*

TOTAL FUNCTION

To obtain the total and finalize a cash sale, depress the [AT/TL] key only. The sale is finalized with the total printed and displayed, and the drawer opens.

If the "[TXBL TL] Compulsory" option is selected, a [TXBL TL] key depression is always required before finalizing a sale. (The [TXBL TL] key is replaced by the [ST] key if the [ST] key is programmed with "[TXBL TL]" key functions.)

The [AT/TL] key is also used to finalize Received-on-Account payments or Paid-Out amounts.

**CHECK
TEND**

CHECK TENDER KEY ([CHECK TEND])

This is one of the non-cash media keys, and is used to cash a check when the register is outside a sale, or to finalize the transaction as a check payment.

CHECK CASHING WITH NO PURCHASE

When the register is outside a sale, enter the check amount and depress the [CHECK TEND] key. A receipt is issued and the drawer is opened to enable exchange. However, this cashing function may be prohibited by a program selection.

FINALIZING AS CHECK PAYMENT

For finalizing a sale with [CHECK TEND], refer to the [AT/TL] key description. The [CHECK TEND] key is usually programmed to function as a Tender-only key. However, it may be programmed to function as a Total-only key or as both Tender and Total key, just as [AT/TL].

The [CHECK TEND] key is also used to finalize Received-on-Account payments when paid in check, if programmed to allow it.

When the key is programmed to allow tendering, over-tendering and/or short-tendering using this key may also be programmed to be prohibited.

Chg

CHARGE KEY ([Chg])

This is another non-cash media key, and is usually programmed as a "Charge Sale Total" key. However, it may be programmed to be a key for other media such as payments by credit card. To operate as a general charge sale finalizing key, depress [Chg], instead of [AT/TL], to obtain the total and finalize the sale.

This key has exactly the same functions and programmabilities as the [CHECK TEND] key except that [Chg] is usually programmed as Total-only key but not Tender key.

MISC

MISCELLANEOUS MEDIA KEY ([MISC])

This is one of the additional non-cash media keys that may be installed besides [CHECK TEND] and [Chg]. This key has the same functions and programmabilities as the [CHECK TEND] key, and is usually used as the Tender-only key.

CPN

MEDIA-COUPON KEY ([CPN])

This key is used to finalize a sale paid in coupons. This key has the same functions and programmabilities as the [CHECK TEND] key and is usually used as the Tender only key.

**VALID
DATE**

VALIDATION KEY ([VALIDATE])

This key is used to over-print a validation slip.

To operate, after registering a required item, insert the slip into the validation slot and depress the [VALIDATE] key. The item and the amount will be printed in one line on the slip. Print or non-print of the consecutive No. or clerk No. is program option.

Program selection is also provided for single- or multi-validation (number of times validation allowed for the same item).

TX1/M

TX2/M

TAX MODIFIER KEYS ([TX1/M], [TX2/M])

These keys are used to reverse the Tax status (taxable/non-taxable status) on departments, PLUs, or other tax-status-programmable keys ([DOLL DISC], [% +], and [%-]) for one entry only.

To operate, depress the required tax modifier keys prior to depressing any of those function keys listed above.

The tax modifier keys are also used, along with the [EX] key, to exempt required tax(es) from the sale. Refer to the [EX] key description for this purpose.

EX

TAX EXEMPT KEY ([EX])

This key is used to declare the exemption of the taxes from the sale, displaying the sale total excluding the exempted tax(es), printing the pre-taxed amount of the sale portion subject to the tax exemption. Only a finalizing operation is possible after the [EX] key is operated.

When dual tax modifier keys are installed, partial tax exemption as well as total tax exemption may be performed in the following ways:

- [TX1/M] → [EX] to exempt TAX 1 only
- [TX2/M] → [EX] to exempt TAX 2 only

To exempt all the taxes, simply depress [EX] (or depress [TX1/M] and [TX2/M] keys first, then depress [EX]).

CUR
1

to

CUR
4

FOREIGN CURRENCY KEYS ([CUR]; [CUR 1] to [CUR 4])

These keys are used in tendering with foreign currencies. Each of these corresponds to a foreign currency and is programmed with a preset exchange rate.

For finalizing the sale, depress the [TXBL TL] key. (The [TXBL TL] key is always mandatory for this operation.) The total (including taxes) is displayed in the domestic currency value. Next, depress the [CUR] key corresponding to the required foreign currency, and the sale total is displayed in that currency value exchanged from the domestic currency value. Then an amount tendered in that foreign currency may be entered (displaying the amount in the foreign currency) and the same [CUR] key will be depressed (now displaying the domestic currency amount exchanged from the entered foreign currency amount). Finally, depress the media key according to the media paid (usually [AT/TL] for cash payment). The change due is displayed and printed in the domestic currency value. If the tendered amount is short, the balance due is displayed in the domestic currency value, and then multi-tendering with the same [CUR] key.

TAX

MANUAL TAX KEY ([TAX])

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

To operate, enter the desired amount of tax and then depress the [TAX] key. The amount entered is then printed. This tax amount is processed into the TAX 3 memory.

8. REGISTERING PROCEDURE AND RECEIPT SAMPLES

The following pages are registering operation patterns and actual operation samples. In the patterns, " | _____ | " indicates an input through the numeric keys, "[]" indicates a depression of the transaction key, and " --- " indicates other registering and /or finalizing operations. In referring to the sample operations, please note that the programmed data on some keys or items (such as Department keys) may be different from those programmed for your store.

CONDITION SETTING TO START REGISTERING

Mode Lock : Insert the "REG" key and set it to the "REG" position.

Clerk Lock : You must set your clerk key to the ON status.

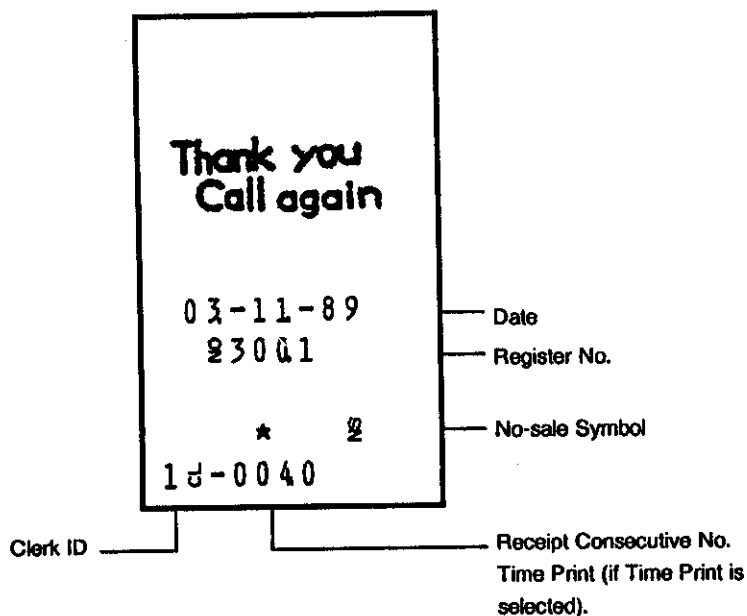
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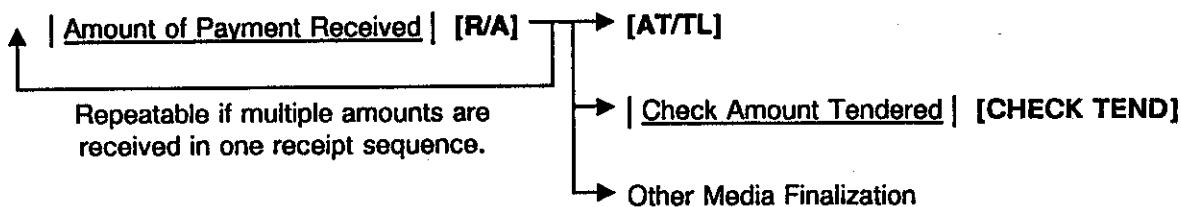
NO-SALE (must be operated outside a sale)

[NS]

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY									
		PLU		AMOUNT							
		DPT	RPT	TK	ST	TR	CG	SH			
<p>You want to test the printer condition before starting operations for the day.</p> <p>Or a customer requests to break a bill.</p>	<p>[NS]</p> <p>The drawer opens.</p>								0	0	0



RECEIVED-ON-ACCOUNT (must be operated outside a sale)



NOTE : The media keys used for this operation must be programmed to allow received-on-account entries.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY										
		PLU		AMOUNT								
		DPT	RPT	DL	AL	RE	IL	DL	ET	TL	CO	SH
A customer comes and settles his account for a sale made on a different day (finalized as a charge sale), not relating today's sale business. The Customer's Account No. is 15. • Paid Amount \$10.00 • Paid Amount \$2.50 The customer tenders the exact a amount in cash. Receive \$12.50 and put it in the drawer.	15								0	1	5	
	[#]								0	1	5	
	1000								1	0	0	0
	[R/A]								1	0	0	0
	250									2	5	0
[R/A]									2	5	0	
[AT/TL]									1	2	5	0

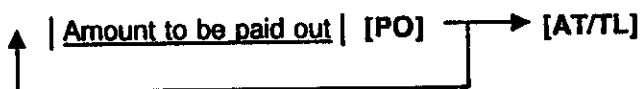
**Thank you
Call again**

03-11-89
23001

#15
 *1000 RA
 *250 RA
 *1250 CA TL

10-0041

PAID-OUT (must be operated outside a sale)



Repeatable if multiple amounts to be paid out are recorded in one receipt sequence.

NOTE : Only [AT/TL] can finalize paid-out amounts. (i.e. must always be paid out in cash.)

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY										
		PLU		AMOUNT								
		DPT	RPT	SL	AL	RE	TX	ST	TL	CO	SH	
You must pay for merchandise the store has purchased. You assign Code No. 2003 to this wholesaler for future reference. • \$4.50 • \$3.20 Pay the total amount \$7.70 to the wholesaler out of the drawer.	2003							2	0	0	3	
	[#]							2	0	0	3	
	450								4	5	0	
	[PO]								4	5	0	
	320									3	2	0
	[PO]									3	2	0
	[AT/TL]								7	7	0	
									▼			

Thank you
Call again

03-11-89
 23001

#2003
 *450 PO
 *320 PO
 *770 TL
 18-0042

DEPARTMENT ENTRY

Open Department (Itemized Dept)
 (--- →) | Price | [Open DEPT] → ---

Preset Department (Itemized Dept)
 (--- →) [Preset DEPT] → ---
 (--- →) | Price | [Preset DEPT] → ---
 ↑ or ↑ [PR OPEN]
 (or [OPEN])

Single-item Department

Operates the same as Itemized Departments, except that the sale is finalized as cash in case a Single-item Department is entered when operated outside a sale.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY										
		PLU		AMOUNT								
		DPT	RPT	DL	AL	RE	(/)	TX	BT	TL	CO	SH
Open Dept (Itemized) A Dept.1 item of \$1.23 (Dept.1 is programmed as an Open, Itemized dept) (The sale is not finalized until a media key is operated.)	123 [DEPT 1] 01 *123 F	0	1							1	2	3
Preset Dept (Itemized) A Dept.2 item which is preset with a price of \$2.50. (The sale is not finalized until a media key is operated.) A Dept.2 item of \$1.50. (which is preset with price of \$2.50.)	[DEPT 2] 02 *250 F [PR OPEN] 150 [DEPT 2] 02 *150 F	0	2							2	5	0
Single-Item Dept- -- outside a sale -- A Dept.5 item of \$1.40 (Dept.5 is programmed as an Open, Single-item dept) (The sale is immediately finalized as cash.)	140 [DEPT 5]	0	5							1	4	0

Thank you
Call again

03-11-89
23001

05 *140 M
*008 K
*148 C FL
18-0046

PLU ENTRY

Preset PLU (Itemized PLU)


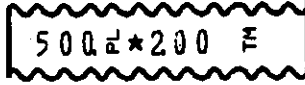
(--- →) | PLU Code | [PLU] → ---

Open PLU (Itemized PLU)

(--- →) | PLU Code | [PLU] | Price | [AMT] → ---

Single-item PLU

A PLU linked to a Single-item Department will automatically function as a Single-item PLU, and immediately finalizes the sale as cash on an entry when operated outside a sale.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY										
		PLU			AMOUNT							
		DPT	RPT		SL	AL	RE	LT	ST	TL	OO	SH
Preset PLU (Itemized) An item of PLU No.11 (preset price \$3.00) (The sale is not finalized until a media key is operated.)	11 [PLU] 	0	1	1						0	1	1
										3	0	0
Open PLU (Itemized) To enter \$2.00 through PLU No. 500 (open-PLU).	500 [PLU] 200 [AMT] 	5	0	0						5	0	0
		5	0	0						0	0	0
		5	0	0						2	0	0
										2	0	0

REPEAT ENTRY

(1) Department Repeat

- Open Dept

(--- →) | Price | [Open DEPT] → [same DEPT] → ---

- Preset Dept

(--- →) | [Preset DEPT] → [same DEPT] → ---

(2) PLU Repeat

- Open PLU

(--- →) | PLU Code | [PLU] | Price | [AMT] → [AMT] → ---

- Preset PLU

(--- →) | PLU Code | [PLU] → [PLU] → ---

Depress the last key of the sequence as many times as the desired count.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY												
		PLU		AMOUNT										
		DPT	RPT	SL	AL	RE	(-)	TX	ST	TL	CG	SH		
To enter the following item within a sale: 3 items of Dept.1 (open dept), unit price \$1.20	120											1	2	0
	[DEPT 1]	0	1		▼			▼				1	2	0
	[DEPT 1]	0	1	2	▼			▼				1	2	0
	[DEPT 1]	0	1	3	▼			▼				1	2	0
	[DEPT 2]	0	2		▼			▼				2	5	0
	[DEPT 2]	0	2	2	▼			▼				2	5	0
2 items of Dept.2 (preset dept), preset price \$2.50	<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> 01 *120 TE 01 *120 TE 01 *120 TE 02 *250 TE 02 *250 TE </div>													

QUANTITY EXTENSION (MULTIPLICATION)

(1) Department Multiplication

- Preset Dept

(--- →) | Quantity | [@/FOR] [Preset DEPT] → ---

└─ may be omitted if the Quantity is one digit

- Open Dept

(--- →) | Quantity | [@/FOR] | Price | [Open DEPT] → ---

- Preset Price Open

(--- →) | Quantity | [@/FOR] | Price | [Preset DEPT] → ---

↑ ↑ ↑ ↑ [PR OPEN] or [OPEN]
anywhere of these timings

(2) PLU Multiplication

- Preset PLU

(--- →) | Quantity | [@/FOR] | PLU Code | [PLU] → ---

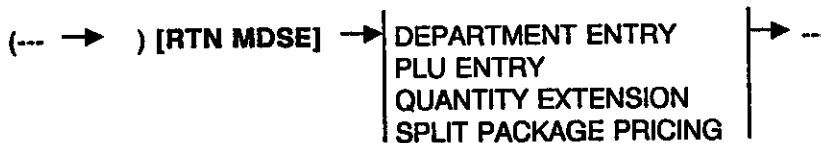
- Open PLU

(--- →) | Quantity | [@/FOR] | PLU Code | [PLU] | Price | [AMT] → ---

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY									
		PLU		AMOUNT							
		DPT	RPT								
		SL	AL	RE	(.)	TZ	ST	TL	CG	SH	
To enter the following items: 5 items of PLU No.11 (preset PLU), preset price \$1.00.	5								0	0	5
	[@/FOR]								0	0	5
	11								0	1	1
	[PLU]	0	1	1	▼	▼	1	5	0	0	
6 items of PLU No.500 (open PLU), unit price \$2.00.	6								0	0	6
	[@/FOR]								0	0	6
	500								5	0	0
	[PLU]	5	0	0	▼	▼		0	0	0	
	200	5	0	0	▼	▼		2	0	0	
[AMT]	5	0	0	▼	▼	1	2	0	0		

5	X	
	300	⊙
011	±1500	F
6	X	
	200	⊙
500	±1200	F

RETURNED MERCHANDISE or DESIGNATED LINE VOID



SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY										
		PLU		AMOUNT								
		DPT	BPT	SL	AL	RE	(L)	TC	ST	TL	CG	BR
Return Entry Outside a Sale A customer comes up to return a \$5.00 item of Dept.1. No other sale items at this time. The sale total is now negative, therefore the total amount displayed must be paid back to the customer in cash.	[RTN MDSE]									0	0	0
	500									5	0	0
	[DEPT 1]	0	1							5	0	0
	[AT/TL]									5	8	0

Thank you
Call again

03-11-89
 23001

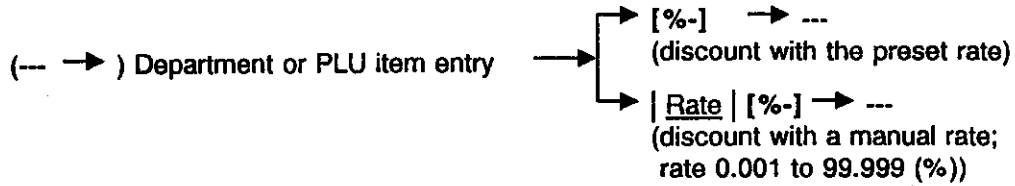
01 *500 EE
 -080 X
 -580 SF

10-0054

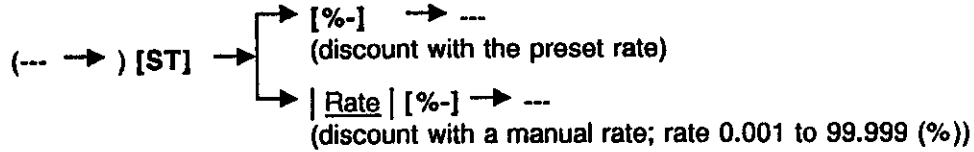
PERCENT DISCOUNT

(PERCENT CHARGE operates the same with [% +] instead of [%-])

Discount from a Department or PLU Item :

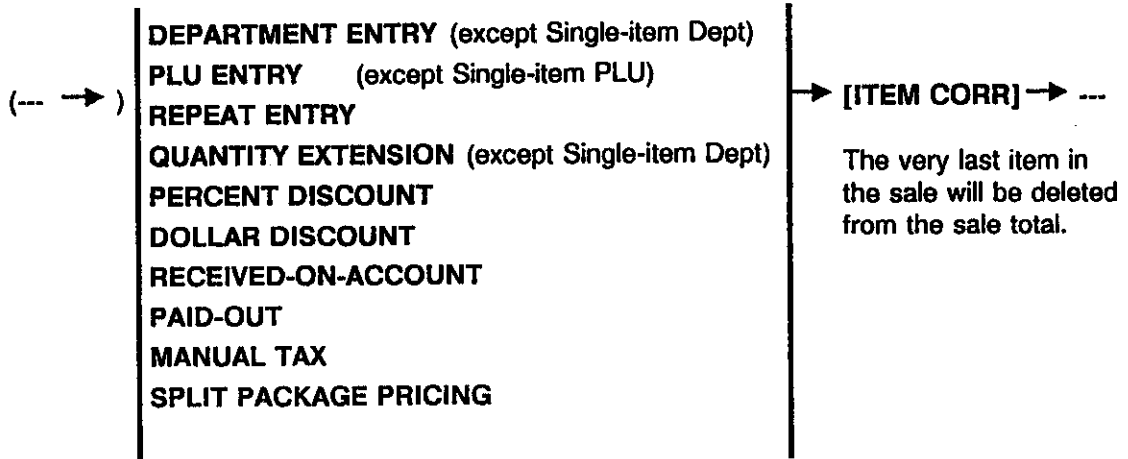


Discount from the entire sale total :



SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY									
		PLU		AMOUNT							
		DPT	RPT	SL	AL	RB	()	TX	ST	TL	CG	BR
<p>Percent Discount from a Department Item</p> <p>A Dept.1 item of \$2.00 is entered.</p> <p>5% is discounted from the above item.</p> <p>.....</p>	<p>200</p> <p>[DEPT 1]</p> <p>[%-] (if 5% is preset)</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>01 *200 F</p> <p>5 %-</p> <p>-010</p> </div>	<p>2.00</p> <p>0 1</p> <p>▼ ▼</p> <p>2.00</p> <p>▼ ▼</p> <p>0.10</p>									
<p>Percent Discount from a Sale Total</p> <p>10% is subtracted from entire sale total.</p> <p>.....</p>	<p>Sale items have been entered</p> <p>[ST]</p> <p>10 (Manual % Rate)</p> <p>[%-]</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>*500 ST</p> <p>10 %-</p> <p>-050</p> </div>	<p>5.80</p> <p>▼ ▼</p> <p>▼ ▼</p> <p>0.10</p> <p>▼ ▼</p> <p>0.50</p>									

ITEM CORRECT (Last Line Voiding)



- NOTES :**
- 1) When [ITEM CORR] is operated after a REPEAT ENTRY, only the last item of the repeated entries is deleted.
 - 2) When [ITEM CORR] is operated after a QUANTITY EXTENSION, the entire product (the result of multiplication) is deleted.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY									
		PLU		AMOUNT							
		OPT	RPT	SL	AL	RE	()	TK	FT	TL	CG	BT
A Dept.2 item (preset price \$2.50) is entered, but you immediately notice that the entry is wrong.	[DEPT 2] [ITEM CORR]	0	2						2	5	0
	02---*250-ES	0	2	0	▼	▼			2	5	0
5 x Dept.1 item of unit price \$1.30 is entered, but you immediately notice that the entry is wrong.	5 [@/FOR] 130 [DEPT 1] [ITEM CORR]								0	0	5
	5 X 130 @ 01---*650-ES								0	0	5
		0	1		▼	▼			1	3	0
		0	1	0	▼	▼			6	5	0
		0	1	0	▼	▼			6	5	0

NON-ADD NUMBER PRINT

(--- →) | Number to be printed as reference | [#] → ---
 max. 8 digits; 1 to 99999999

Operation Samples in : RECEIVED-ON-ACCOUNT
 PAID-OUT
 CHARGE SALE TOTAL

LISTING CAPACITY OPEN

Depress [LC OPEN] (or [OPEN]) prior to or any time during an entry of a department or a PLU sequence (including REPEAT and QUANTITY EXTENSION entries). Please note that the [LC OPEN] or [OPEN] key must be pressed, at latest, before the final key of the entry sequence. The HALC (High Amount Listing Capacity) for the department or PLU will be extended with two higher digits. For entering an amount still exceeding these limits, you must call for a Manager Intervention.

TAX STATUS MODIFICATION

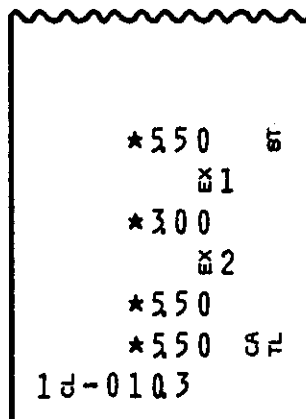
Depress [TX1/M], or [TX2/M] in the same way as [LC OPEN] is operated, prior to or any time during the entry sequence of the required Department, PLU, or any other tax-status-programmable item ([DOLL DISC], [%-], [%+]). The taxable status is reversed to non-taxable, and vice versa.

TAX EXEMPT

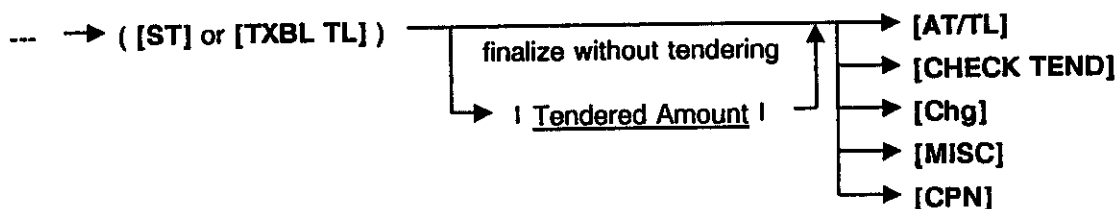
- → [TX1/M] [EX] → Sales Finalization (to exempt Tax 1 only)
- → [TX2/M] [EX] → Sales Finalization (to exempt Tax 2 only)
- → [EX] → Sales Finalization
- → [TX1/M] [TX2/M] [EX] → Sales Finalization] (to exempt Tax 1 and Tax 2)

NOTE : On depressing [EX], the sale total excluding the exempted-tax(es) is displayed, and the pre-taxed amount of the sale portion subject to the tax exemption is printed.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY									
		PLU		AMOUNT							
		DPT	RPT	TX		ST		TL		CO	SH
SL	AL	RE	(-)								
Sale items have been entered.											
You want to know the sale total including tax.	[ST]			▼		▼	▼		6.	2	3
You must exempt tax from this sale for some reason	[EX]			▼		▼	▼		5.	5	0
Finalized as cash sale.	[AT/TL]							▼	5	5	0



SALE FINALIZATION BY MEDIA KEYS



- NOTES :**
- Whether each Media Key is depressed with a prior tendered amount entry or not is determined by the key status selections programmed for each media key.
 - If the sale total is zero or negative, any media key must be depressed without a tender amount entry even if the key is programmed as "Tender" key.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY											
		PLU		AMOUNT									
		DPT	RPT	SL	AL	HE	TX	ST	TL	CG	SH		
Cash Tender Sale items have been entered. The customer wants to know the sale total. The customer tenders \$10.00 cash. The change of \$3.77 is displayed. Pay it back to the customer in cash.	[ST]						▼	▼	▼	6	2	3	
	1000						▼			1	0	0	0
	[AT/TL]										3	7	7
Charge Sales Total Sale items have been entered. The customer wants to use his credit account. You enter his Customer Account No. 1001 as reference.	[ST]						▼	▼	▼	6	2	3	
	1001 [#]						▼			1	0	0	1
	[Chg]										6	2	3

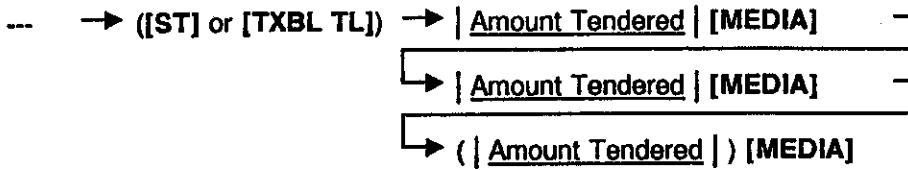
```

    *550 ST
    *073 TX
    *623 TL
    *1000 CA
    *377 CG
    12-0065
  
```

```

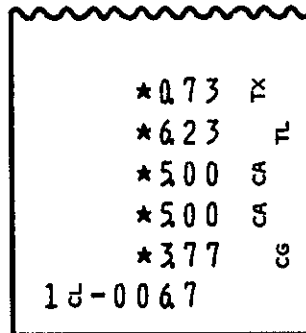
    *550 ST
    #1001
    *073 TX
    *623 CH TL
    12-0066
  
```

MULTI-TENDER (Short-tender repeated by the same media)



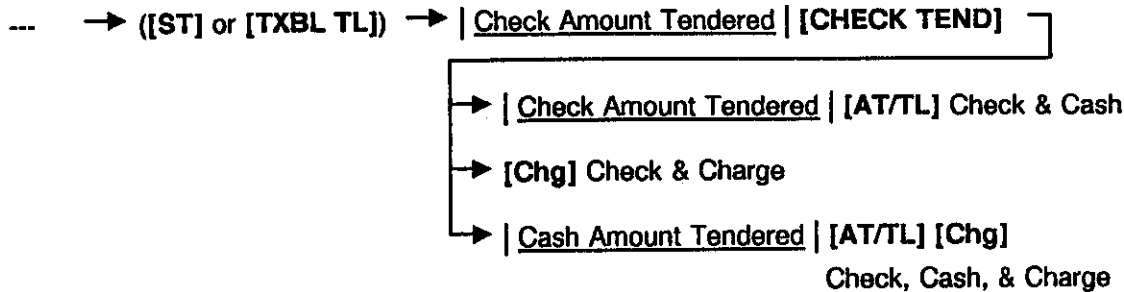
NOTE : In MULTI-TENDER operation, the sale is finalized and the drawer opens on reaching the sale total amount.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY																		
		PLD		AMOUNT																
		DPT	RPT	SL	AL	RE	TX	ST	TL	CG	SH									
Sale items have been entered.																				
The customer first tenders \$5.00 cash, which is short. (The balance still due is displayed)	500																			
	[AT/TL]																			
The customer then tenders another \$5.00 in cash.	500																			
The sale is now over-tendered, finalized, and change computed. Give the change to the customer in cash.	[AT/TL]																			

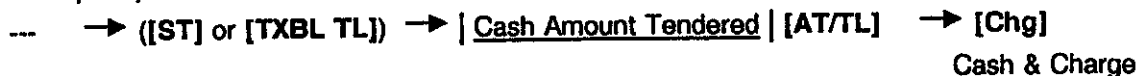


SPLIT-TENDER (Short-tender repeated by different media)

Example 1)



Example 2)



SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY										
		PLU		AMOUNT								
		BPT	RPJ	ST	AL	RE	(-)	TX	ST	TL	CG	SH
Check & Cash Sale items have been entered. The customer first tenders a \$10.00 check. (The balance due is displayed.) The balance is paid in cash, tendering \$5.00. Give the change in cash to the customer.	1000								1	0	0	0
	[CHECK TEND]			▼						3	1	9
	500			▼						5	0	0
	[AT/TL]			▼						1	8	1
Cash & Charge Sale items have been entered. The customer first tenders \$10.00, which is short. (The balance due is displayed.) The customer asks to make the rest balance as his charge account.	1000								1	0	0	0
	[AT/TL]			▼						3	1	9
	[Chg]			▼						3	1	9

*169	₪
*1319	₪
*1000	₪
*500	₪
*181	₪
1d-0068	

*169	₪
*1319	₪
*1000	₪
*319	₪
1d-0069	

CHECK CASHING (No-sale cashing of non-cash media; allowed outside a sale only.)

| Check Amount to be Cashed | [CHECK TEND] The drawer opens to enable the exchange.

NOTE : Other non-cash media keys may be used for this purpose if programmed to allow no-purchase cashing.

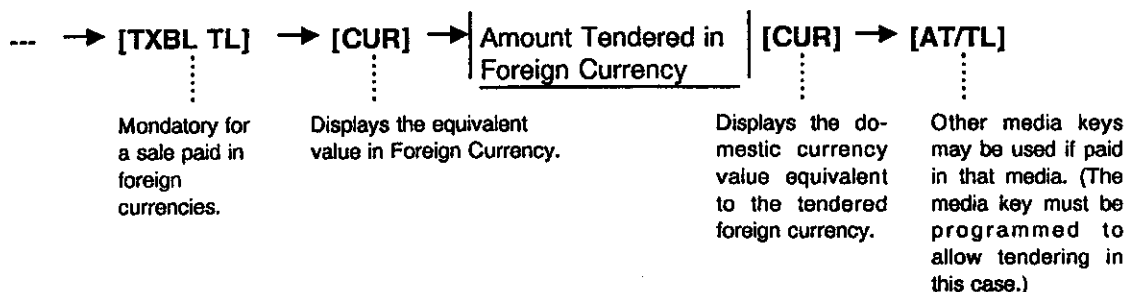
SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY																		
		PEU		AMOUNT																
		DPT	RPT	SI	AL	RE	(.)	TX	BT	TL	CG	SH								
A customer asks the store to cash a check of amount \$10.00 without relating to a sale. The drawer opens. Receive the check and give \$10.00 cash out of the drawer to the customer.	1000																			
	[CHECK TEND]																			

Thank you
Call again

 03-11-89
 23001

 *1000 8F
 13-0070

SALE PAID IN FOREIGN CURRENCIES



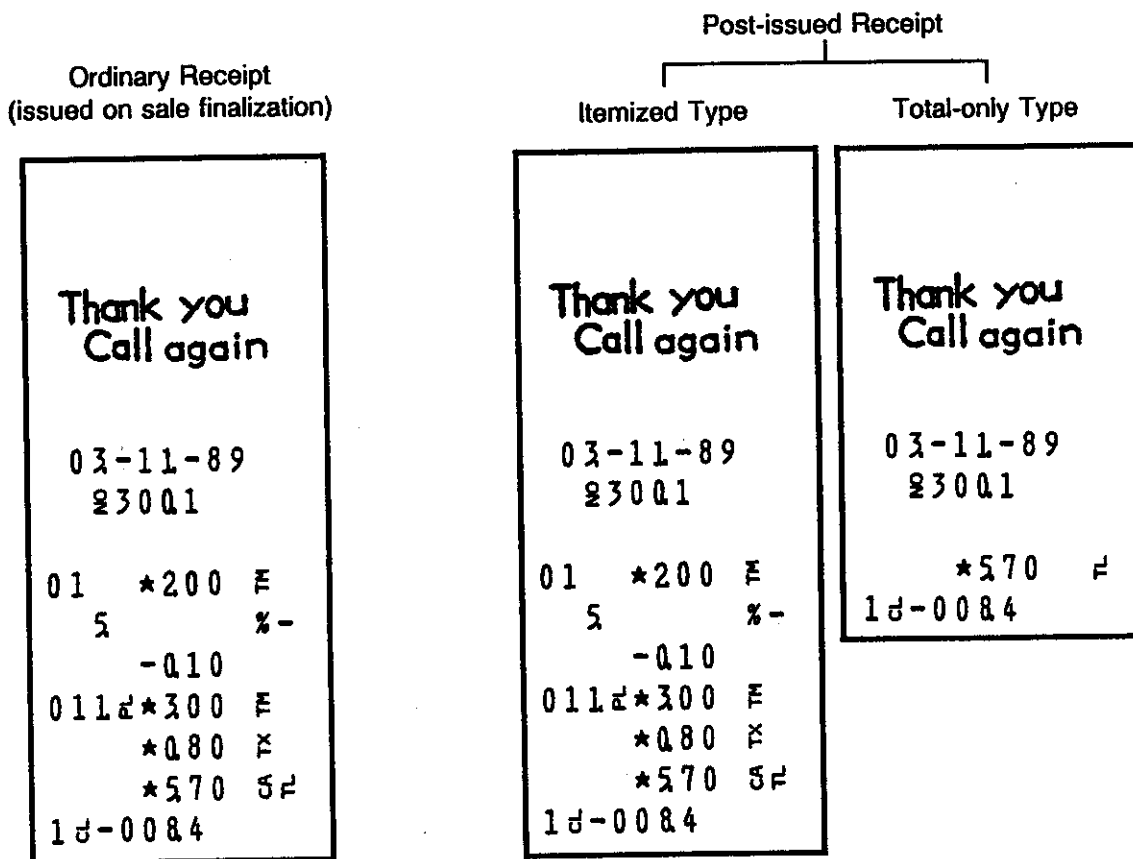
- NOTES:**
1. When a tendering by a foreign currency occurs during a short tendered condition, the [TXBL TL] key will not be mandatory.
 2. The sale is finalized if over-tendered, with change due displayed in the domestic currency.
If short-tendered, the balance due is displayed in the domestic currency value.
 3. A sale of negative balance cannot be finalized using any of the foreign currency keys.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY																		
		PLU		AMOUNT																
		DPT	RPT	SL	AL	RE	(-)	TX	ST	TL	CG	SH								
Sale items have been entered.																				
Obtain subtotal.	[TXBL TL]																			
The customer wants to pay in Foreign Currency. (Reading the displayed amount in CUR, you tell the amount to the customer.)	[CUR] (The CUR value equipment to the above subtotal amount is displayed.)																			
The customer tenders an amount of F50.00 in CUR.	5000 [CUR] (The amount tendered is displayed in the domestic currency.)																			
Since paid in cash, use [AT/TL].	[AT/TL]																			
The sale is over-tendered and finalized. Give the change (displayed in the domestic currency value) to the customer in the domestic currency.	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: right;">★250 ST</p> <p style="text-align: right;">★105 TX</p> <p style="text-align: right;">★855 TL</p> <p style="text-align: right;">★931 ST</p> <p style="text-align: right;">★076 CG</p> <p style="text-align: right;">18-0083</p> </div>																			

RECEIPT POST-ISSUE (Allowed outside a sale)

A sale is finalized → [RECEIPT ISSUE]

NOTE : The post-issue receipt is not available for Received-on-Account or Paid-Out transactions.



VALIDATION PRINT

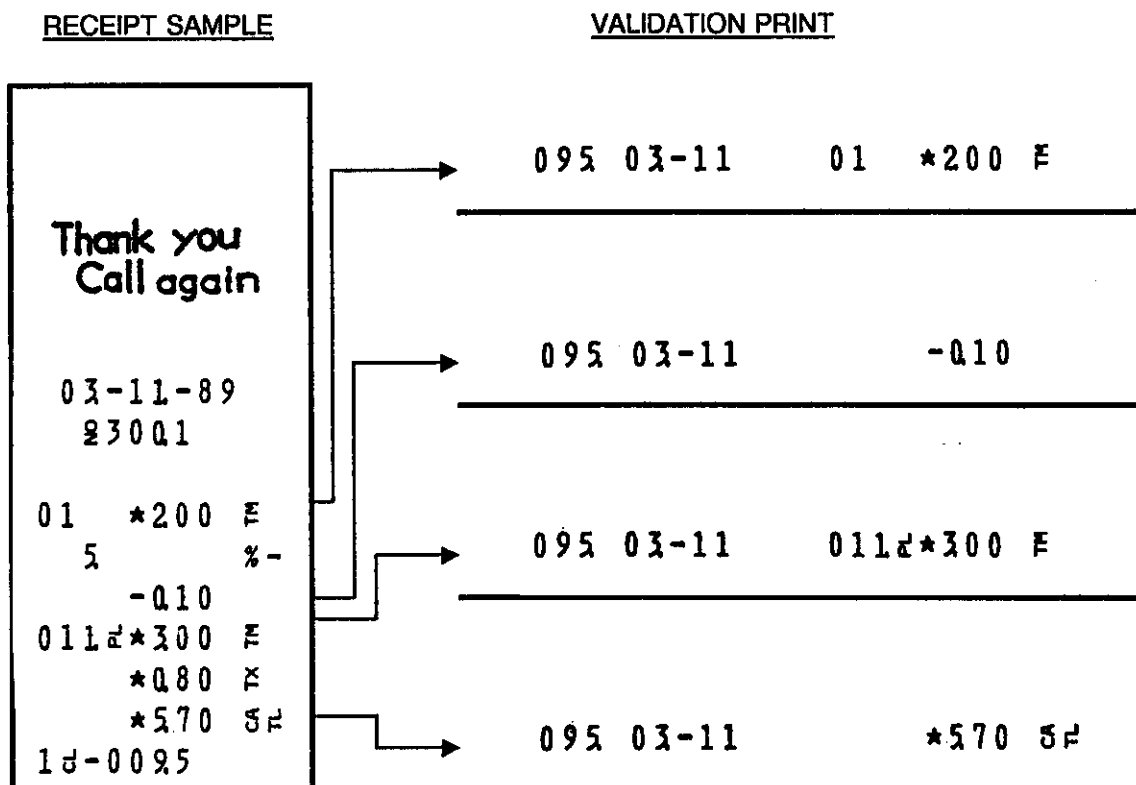
After entering the required item through a transaction key or a media key.

→ Insert a validation slip into the validation slot. Make sure that the "SLP" trimark is steadily lit. → [VALI DATE]

NOTES : 1. No the operations can follow until the validation slip once printed is withdrawn.

2. The following are programmable selections relating to validation :

- (1) PRINT FORMAT
 - a) Consecutive No. Print/Non-Print
 - b) Clerk ID Print/Non-Print
- (2) MULTI- or SINGLE-VALIDATION
(Number of times of validation print allowed for the same item.)



OTHER INCOME ENTRY

Used to enter items which do not directly become sales for the store, such as lottery, postage, gift wrapping fee, size adjustment fee, utility (payment of electricity and gas), and donation.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY											
		PLU		AMOUNT									
		DPT	RPT	DL	ST	TL	DO	ST	DL	ST	TL		
A customer comes up to buy a gift of \$50.00 for Dept. 3.	5000									5	0	0	0
	[DEPT 3]	0	3							5	0	0	0
Then he asks the cashier to wrap the gift. (Dept. 8 is preset as an other income dept)	200										2	0	0
	[DEPT 8]	0	8								2	0	0
	[AT/TL]									5	5	0	0

Thank you
Call again

03-11-89
 23001

03 *5000 F
 08 *200
 *300 TX
 *5500 CA TL
 1d-0096

ENTRY IN THE " " (NEGATIVE) Mode (Mode Lock :)

When several items are returned at a time, turn the Mode Lock to the position using MA key which is kept by the store manager. Then enter each item just in the normal registering operation made in the "REG" mode. The position of the Mode Lock process the entered items exactly in the reverse way, i.e., positive items into negative, and negative into positive.

OPERATION AND RECEIPT SAMPLE

RECEIPT ISSUED IN "REG" or "MGR" MODE

RECEIPT ISSUED IN " " MODE

**Thank you
Call again**

03-11-89
23001

01	*	200	TM		
	5		%-		
		-010			
011	*	300	TM		
		*080	TX		
		*570	FL		
1d	-	0097			

These two receipt contain the same sale items and media finalization. The operations are also the same except the Mode Lock position.

The cashier merely follows the purchase receipt (on the left) and enters the same items in the position, finalizing with the same media, in case a customer has returned or canceled the entire sale after the cashier had finalized that sale.

The mode header (" RT) is printed at the top of the sale contents in the mode receipt.

**Thank you
Call again**

03-11-89
23001

		**	RT		
01	*	200	TM		
	5		%-		
		-010			
011	*	300	TM		
		*080	TX		
		*570	FL		
1d	-	0098			

WHEN A POWER FAILURE OCCURS ...

If a power failure occurs, the sales memory is protected by the back-up battery; registration and printing will normally be performed on regaining the power.

ECR CONDITION at the time of POWER FAILURE		DISPLAY INDICATION on the POWER RECOVERY
OUTSIDE A SALE	No key-in has been operated.	"0" display.
	Numeric or Declaration keys have been entered but no motorized keys.	Same as above.
DURING A SALE	No Numeric or Declaration keys have been entered.	Regains the display content that was obtained just before the power failure.
	Numeric or Declaration keys have been entered.	Same as above.

In the event of a power failure, it is suggested to check the receipt print content before the receipt is handed to the customer.

9. READ (X) AND RESET (Z) REPORTS

The following table shows available reports and the the key operations to issue those reports. The contents of the X and Z reports are the same if both are available, except that:

- 1) Symbol X for X (read) reports, and Z for Z (reset) reports are printed as the header.
- 2) A reset count is printed near the end of a Z report (but not on X reports).
- 3) All the resettable counters and totals will be reset on a Z report issuance, while they will not be reset on an X report issuance. Therefore, X reports may be taken at any time and any number of times during the day or at the end of the day.

TABLE OF X AND Z REPORTS

REPORT NAME	MODE LOCK	KEY OPERATION	Sample Page
<u>* DAILY READ AND RESET</u>			
DAILY READ	X	] [AT/TL]	52
DAILY RESET (DEPARTMENT + FINANCIAL + CLERK + GROSS PROFIT)	Z		
<u>PLU READ AND RESET</u>			
ALL PLU READ	X	] [PLU]	
ALL PLU RESET	Z		
ZONE PLU READ	X	] | Zone-start | @/FOR | Zone-end | [PLU]	54
ZONE PLU RESET	Z		
<u>* CLERK READ AND RESET</u>			
INDIVIDUAL CLERK READ	X	] set the required Clerk Key to ON → 1 [AT/TL]	55
INDIVIDUAL CLERK RESET	Z		
<u>HOURLY RANGE READ AND RESET</u>			
HOURLY READ	X	] 10 [AT/TL]	56
HOURLY RESET	Z		
<u>* MEDIA-IN-DRAWER READ</u>	X	[#] (or [# /CID], [# /NS])	57
<u>* GT READ AND RESET (ACCUMULATED DAILY)</u>			
GT READ	X	] 20 [AT/TL]	58
GT RESET	Z		

- NOTES :**
- 1. The drawer will open on the depression of the final key of the KEY OPERATION for the reports marked with " * " in the table.**
 - 2. No clerk key is necessary to issue reports except CLERK READ AND RESET.**
 - 3. Refer to the report samples on the following pages. As for the program data reading which is also available in the " X " mode, see the "VERIFICATION OF PROGRAMMED DATA".**

DAILY READ or RESET REPORT

Mode Lock : X for read
Z for reset,
[AT/TL].

Thank you
Call again

03-11-89
23001

	X		Report Header ("X" for read "Z" for reset)
Grand Total	*240232	6	
	192	8	Gross Sale Item Count
Department 1 Customer Count	*204149	8	Gross Sale Amount
	01 14	3	Item Count
	31		Total
	*5144		Sales Ratio
Department 2	3246	%	
	02 5	3	
	66		
	+3471		
<hr/>			
	1	%+	Percent Charge Count
	*087	%+	Percent Charge Amount
TAX 1 Amount	1		
	*619	TX	
TAX 2 Amount	2		
	*732	TX	
Tax 3 Amount	3		
	*042	TX	
	114	NS	Net Sale with Tax Item Count
	*17125	NS	Net Sale with Tax Amount
	0	%-	Percent Discount on Subtotal Count
	*000	%-	Percent Discount on Subtotal Amount
	1	-	Dollar Discount Count
	*040	-	Dollar Discount Total
All Media Sales Total Customer Count	24	3	TL
All Media Sales Total Amount	*17285	TL	
Cash Sales Customer Count	21	35	
Cash Sales Amount	*15875	5	TL

	1	CS	Check Sales Customer Count
	*1019	CS TL	Check Sales Amount
Charge Sales Customer Count	2	CS	
Charge Sales Customer Amount	*391	CS TL	
	2	RA	Received-on-Account Count
	*1250	RA	Received-on-Account Amount
	3	PO	Paid Out Count
	*650	PO	Paid Out Total
	*15568	CS ID	Cash-in-drawer Amount
Check Sales Count	3	CS	
Check-in-drawer Amount	*1740	CS ID	
	4	IS	Item Correct (on Depts) Count
	*186323	IS	Item Correct (on Depts) Amount
Item Correct (on other items) Count	2		
Item Correct (on other items) Total	1	IS	
	*015	IS	
	3	% -	Percent Discount on Line Items Count
	*024	% -	Percent Discount on Line Items Total
Returned Merchandise Item Count	6	RT	
Returned Merchandise Amount	*138	RT	
	-003	TX	Negative Tax Amount
Negative Mode (1 - 1) Count	2		
Negative Mode (1 - 1) Total Amount	1	RT	
	*336	RT	
	1		
	*10298	TX TL	Taxable 1 Total
	2		
	*7309	TX TL	Taxable 2 Total
	1	EX	Tax Exempt Customer Count
	EX 1		
	*500		Tax 1 Exempt Total
	EX 2		
	*500		Tax 2 Exempt Total
Individual Clerk Reports	1 *		Foreign Currency 1
Customer Count	1		In-drawer Count
Gross Sale Item Count	*1000	ID	In-drawer Total
Gross Sale Amount	1 d **		
	24	CS	
	192	CS	
	*204149	CS	
	0146		Receipt Consecutive No.
	14-17		Current Time

ALL PLU READ or RESET REPORT

ZONE PLU READ or RESET REPORT

Thank you
Call again

03-11-89
23001

X

005 ¢
5
*375

010 ¢
4
*800

011 ¢
17
*5100

500 ¢
7
*1400

33 π
*7675 π
0147
14-20

Mode Lock :
X for read,
Z for reset, [PLU]

PLU Code
Item Count
Amount

Total Count
Total Amount

Thank you
Call again

03-11-89
23001

Z

005 ¢
5
*375

010 ¢
4
*800

011 ¢
17
*5100

26 π
*6275 π
0001Z
0148
14-21

Mode Lock :
X for read,
Z for reset,

Zone-start PLU | [@ / FOR] | Zone-end PLU

[PLU]

Zone-start PLU Code

Zone-end PLU Code

INDIVIDUAL CLERK READ or RESET REPORT

Mode Lock : X for read,
Z for reset

Set the required clerk Key to
ON.

1 [AT/TL]

Thank you
Call again

03-11-89
23001

X

Clerk No.	1 0 **	
Customer Count	24	3
Gross Sale Item Count	192	8
Gross Sale Total	*204149	8
	10-0149	
	14-24	

HOURLY READ or RESET REPORT

Mode Lock : X for read
 Z for reset,
 10 [AT/TL].

Thank you
 Call again

03-11-89
 23001

Z10

★★

Up to 8:00 Sales Data Customer Count Sales Amount	14 3 *8749 08-00 13 3 *9925 12-00 24 3 *17125 15-00 24 3 *14515 19-00 0001Z 0150 14-25	8:00 to 12:00 Customer Count Sales Amount 12:00 to 15:00 Customer Count Sales Amount 15:00 to 19:00 Customer Count Sales Amount 19:00 to 24:00 No sales data are recorded.
---	--	--

MEDIA-IN-DRAWER READ REPORT

Mode Lock :
 X
 [#] (or[#/CID], [#NS])

**Thank you
 Call again**

03-11-89
 23001

X
 24 3 ₪

*17285 ₪

*15568 5 ₪

3 5 ₪

*1740 5 ₪

1 *

1
 *10.00 ₪

0151

14-25

All Media Total Customer Count

All Media Sales Total Amount
 Cash-in-drawer Total
 Check Sales Count
 Check-in-drawer Amount
 Foreign Currency 1
 In-drawer Count
 In-drawer Total

GT READ or RESET REPORT

Mode Lock : X for read,
Z for reset,
20 [AT/TL]

Thank you
Call again

03-11-89
23001

Z20
*240232 6
192 8
*204149 8
01 14 3
31
*5144
3246 %
02 5 3

-003 8
2
1 8
*336 8
1
*10298 8
2
*7309 8
1 8
81
*500
82
*500
1 8
24 3
192 8
*204149 8
0004Z
0152
14-27

GT Reset Report Count

10. PROGRAMMING OPERATIONS

This character is provided for the store programmer or the store manager who may have to change the programmed data of the MA-216 series ECR on a daily, weekly, or monthly basis. Usually, all the basic program data required for your store should be set before delivering the product by your local TEC representative. However, to change or add program data, please refer to this chapter.

TABLE OF PROGRAMMING CONTENTS

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% + AND %- PRESET RATE SETTING	66
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PLU TABLE PROGRAMMING OR CHANGING

CONDITION

To program new PLUs :
To change any programmed contents of PLUs (except the following case):

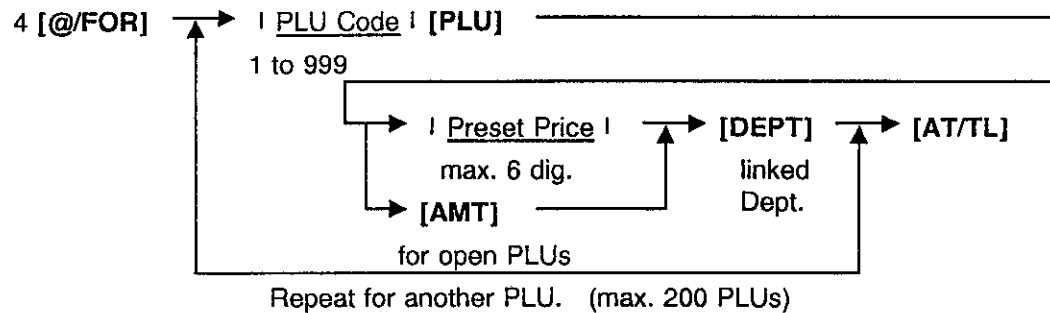
Any time outside a sale.

To change programmed contents of PLUs with sales data not zero.

After PLU Reset.

OPERATION

Mode Lock : SET



- NOTES :**
- 1) ' | PLU Code | [**PLU**]' entry may be skipped if the PLU Code is sequential from that of the PLU just set.
If this PLU code entry is skipped at very first PLU, the PLU code will automatically be programmed as PLU No. 1.
 - 2) The Positive/Negative status, Single-item/Itemized status, and Taxable/Non-taxable status are determined by those of the department to which each PLU is linked.
 - 3) An error results at entry time if the linked department is an other income department.

ex.) To program the following PLUs :

PLU Code	Preset Price	Linked DP
PLU 5	\$1.00	4
PLU 10	\$2.00	2
PLU 11	\$3.00	1
PLU 20	Open	5

Mode Lock to **SET**, enter 4, depress [**@/FOR**].

Enter 5, depress [**PLU**].

Enter 100, depress [**DEPT 4**].

Enter 10, depress [**PLU**].

Enter 200, depress [**DEPT 2**].

(Enter 11, depress [**PLU**].)

Enter 300, depress [**DEPT 1**].

Enter 20, depress [**PLU**].

Depress [**AMT**], then [**DEPT 5**].

Depress [**AT/TL**] to end this program.

Thank you
Call again

00-00-00
20

#-04

005=04

*100 @

010=02

*200 @

011=01

*300 @

020=05

@

004

0009

00-18

TR

PLU TABLE DELETION

CONDITION

After PLU Reset
or anytime for PLUs with Sales Data "0".

OPERATION

Mode Lock : **SET**

#-04

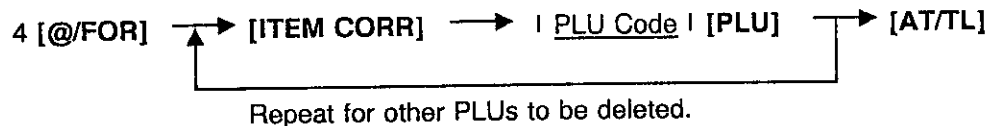
020=

----- S

003

0010

00-20



ex.) To delete PLU No. 20 once set in the above programming operation :

Mode Lock to **SET**, enter 4, depress [**@/FOR**]

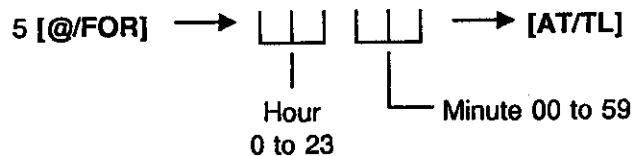
Depress [**ITEM CORR**], enter 20, depress [**PLU**].

Depress [**AT/TL**] to end this program.

TIME SETTING OR ADJUSTMENT

CONDITION Any time outside a sale

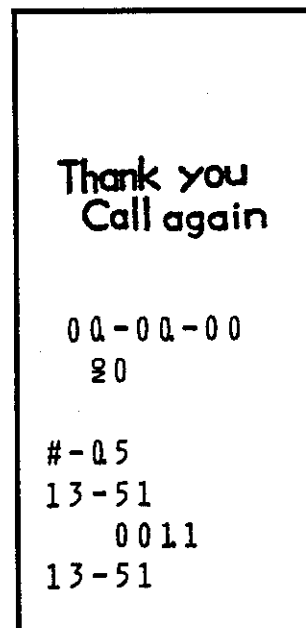
OPERATION Mode Lock : **SET**



- NOTES :**
- 1) "If an hour value of more than 23 or a minute value of more than 59 is entered, no errors will result. However, in this case, set the time again with correct values.
 - 2) The date will not be changed by setting or adjusting the time.

ex.) To set the time to "13:51" (1:51 p.m.)

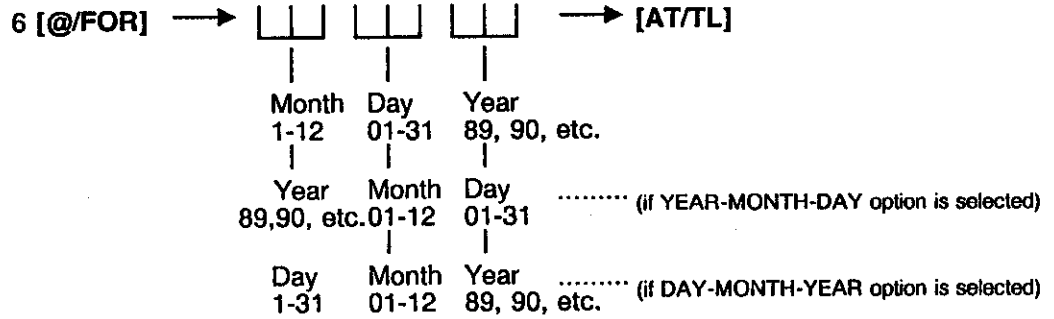
Mode Lock to **SET**, enter 5, depress [@/FOR]
Enter 1 3 5 1 , depress [AT/TL].



DATE SETTING OR ADJUSTMENT

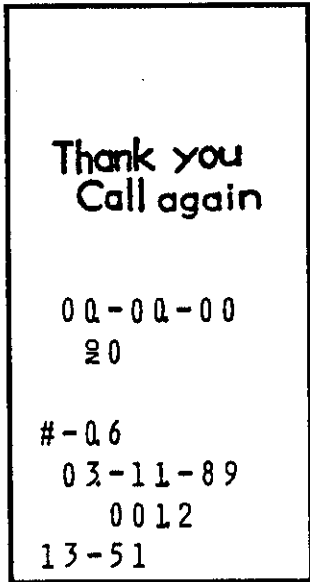
CONDITION Any time outside a sale

OPERATION Mode Lock : SET



ex.) To set the date to "March 11 1989":
 Mode Lock to SET, enter 6, depress [@/FOR]
 Enter (0) 3 1 1 8 9, depress [AT/TL].

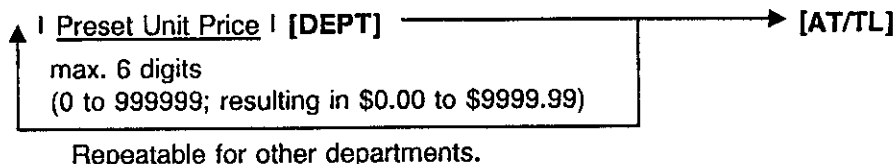
NOTE : The extra day of a leap year is also counted in the circuit.



DEPARTMENT PRESET PRICE SETTING OR CHANGING

CONDITION Any time outside a sale.

OPERATION Mode Lock : **SET**



NOTE : When the "Preset Unit Price" is skipped and only the [DEPT] key is depressed in the above operation sequence, the department will be an open-price department (i.e. and amount entry is always required before the [DEPT] key.)

ex.) To set Preset Unit Price \$2.50 to Dept. 2, and \$1.40 to Dept. 3:

Mode Lock to **SET**,
 Enter 250, depress [DEPT 2].
 Enter 140, depress [DEPT 3].
 [AT/TL] to end.

ex.) To reset the Preset Unit Price (\$1.40) of Dept. 3 that was once set (i.e. to change it into an open-price department) :

Mode Lock to **SET**,
 Simply depress [DEPT 3].
 [AT/TL] to end.

Thank you
Call again

03-11-89
23001

#-00

02 *250 @

03 *140 @

0020

13-59

#-00

03 @

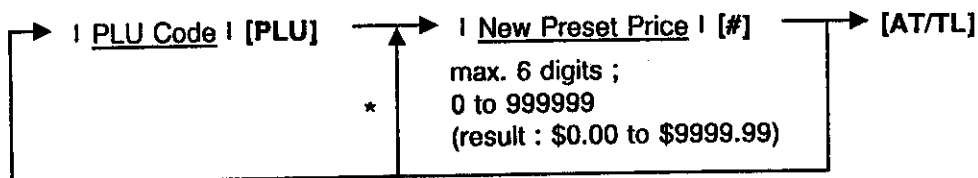
0021

14-01

PLU PRESET PRICE SETTING OR CHANGING

CONDITION Any time outside a sale.

OPERATION Mode Lock : SET



Repeatable for another PLU.

(* Repeatable from here if the PLU Code is sequential.)

- NOTES :**
- 1) Entering 0 (zero) as New Preset Price will preset the price of \$0.00.
 - 2) In this operation, changes of the linked department or programming additional PLUs are not possible.

ex.) To change the preset price of PLU No. 5 (previously programmed with \$1.00 as the preset price) to the new price of \$0.75 :

Mode Lock to SET,

Enter 5, depress [PLU].

Enter 75, depress [#].

Depress [AT/TL] to end this program.

Thank you
Call again

03-11-89
23001

#-00
005204
*075 @
0022
14-04

% + AND %- PRESET RATE SETTING

A preset rate may be set on each of the [% +] and [%-] key, one independent rate for each key. Once a rate is preset, the % key only will be depressed without a prior rate entry to activate the preset rate. If a rate is entered prior to the depression of the key, the entered rate (manual rate) will be activated instead.

CONDITION Any time outside a sale

OPERATION Mode Lock : SET

| Preset % Rate | [% +] (For Percent Charge
Preset Rate)
 (0.001 to 99.999(%); use the [.] key if a
 decimal portion is contained.)
 | Preset % Rate | [%-] (For Percent Discount
Preset Rate)

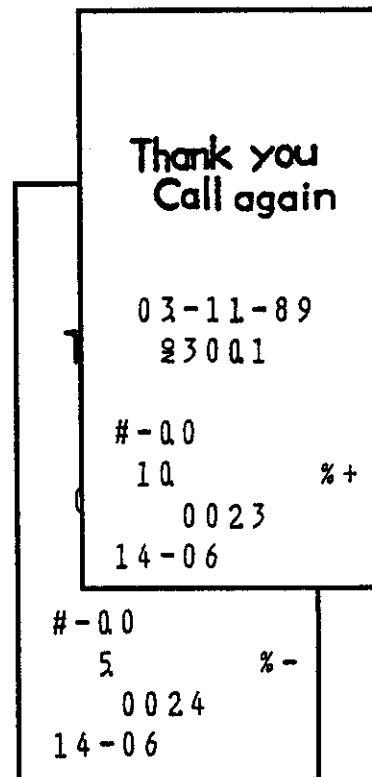
ex.) To set 10% on [% +] Key :
 Mode Lock to SET, enter 10, depress [% +].

ex.) To set 5% on [%-] Key :
 Mode Lock to SET, enter 5, depress [%-].

To reset the rate once set :

Mode Lock : SET,
 Enter 0, depress the required % key.

(Then the % key will always require a
 manual rate entry in sales entries.)



FOREIGN CURRENCY EXCHANGE RATE SETTING

In this program, the rate of each foreign currencies (corresponding to the [CUR 1] to [CUR 4] keys) will be set. By setting a rate on each Foreign Currency Key, reading the sale total and tendering in the foreign currency value will be possible for sale finalization.

CONDITION Any time outside a sale.

OPERATION Mode Lock : **SET**

| Exchange Rate for Foreign Currency 1 | → [CUR 1]

0.000001 to 9999.999999

(Use the [.] key if decimal portion is contained in the rate.)

⋮

| Exchange Rate for Foreign Currency 4 | → [CUR 4]

As for how to calculate the Exchange Rate, see the description below.

Foreign Currency Exchange Rate Calculation

1. The rate must be calculated in the subsidiary currency unit values for both the domestic and the foreign currencies. (In case of calculating the rate from the domestic to a foreign currency with the same zero-suppress form, such as from U.S. \$ to French Franc, it will be no problem even if it is calculated in the main currency of \$ and Franc. However, in case of exchanging from a domestic currency such as \$ or Franc to Japanese yen or Italian Lira, or vice versa, this rule must be obeyed; otherwise a wrong rate will result.)
2. Calculate the required foreign currency value equivalent to the domestic currency value "1". Then the obtained value is the Exchange Rate value to be entered in the setting operation stated above.

If the domestic currency is US \$:

1¢ = xxx.xxxxx centimes (French Franc)
 = xxx.xxxxx phennings (Deutsche mark)
 = xxx.xxxxx yen (Japanese yen)

etc.

┌
└

Enter this value as the foreign currency rate.

ex.) To set foreign currency rate:

Domestic Currency US \$
 Assigning [CUR 1] French Franc

Conditions given for Domestic Currency and Foreign Currency
 (The rates here are merely examples, and may be different from
 the actual rates currently in effect.)

(DOMESTIC)	(CU 1)
U.S. dollar	French Franc
\$1.00	= Fr 5.3729
1 cent	= 5.3729 centimes

KEY OPERATION for setting the rates above.

Mode Lock to SET.

5 [.] 3729 [CUR 1] (for French Franc)

Resetting a Foreign Currency Rate Once Set :

Enter "0" in place of the Exchange Rate for the Foreign Currency in the setting operation. Then the rate for that foreign currency will be reset. The Foreign Currency Key of the rate thus reset cannot be used in sales entries.

Thank you
Call again

03-11-89
23001

#-00
1*

5
3729
0028
14-14

#-00
1*

0
0029
14-20

11. VERIFICATION OF PROGRAMMED DATA

The programmed data entered in the previous "SET" mode operations may be read for the verification purpose.

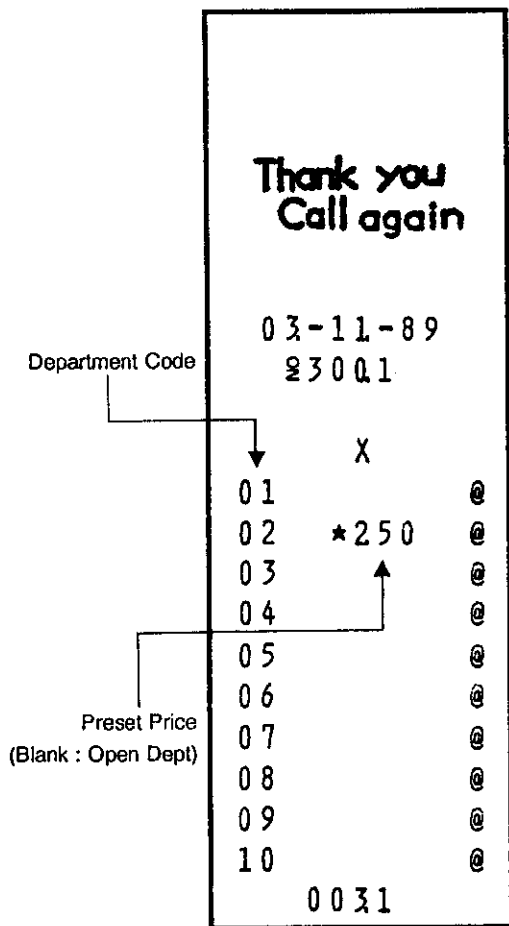
CONDITION Any time outside a sale.

OPERATION Mode Lock : X

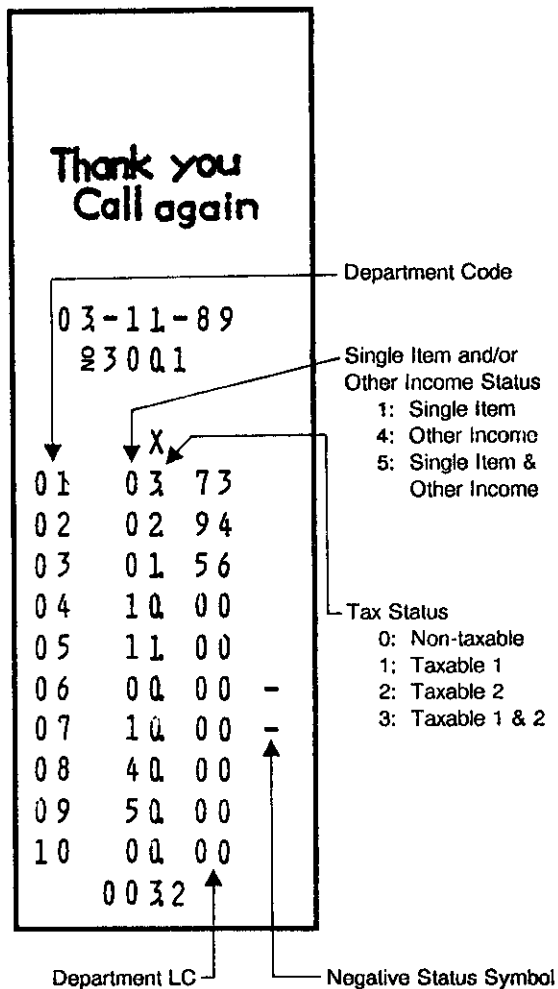
Follow the operation for each reading below:

(READ CONTENTS)	(KEY OPERATION)	(SAMPLE PAGE)
DEPARTMENT PRESET PRICE READ ..	1 [ST]	70
DEPARTMENT STATUS AND LC READ .	2 [ST]	70
PLU TABLE READ	3 [ST]	71
OTHER PROGRAM DATA READ	4 [ST]	71
USER SYSTEM OPTION READ	5 [ST]	72
TAX CALCULATION TEST .....	| <u>Entry any amount</u> | [TXBL TL] (or [TX/M], [TX1/M])	73

DEPARTMENT PRESET PRICE READ
(Mode Lock : X, 1 [ST])

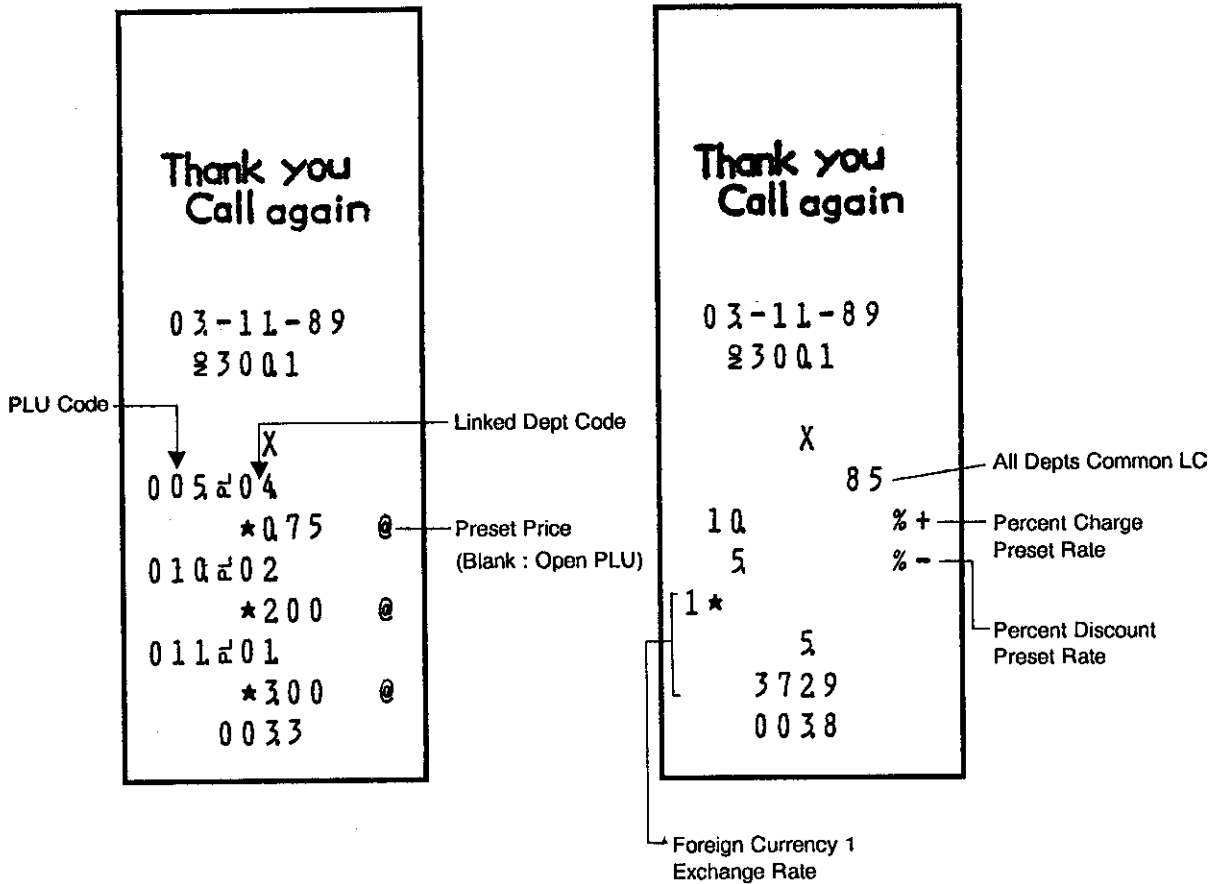


DEPARTMENT STATUS AND LC READ
(Mode Lock : X, 2 [ST])



PLU TABLE READ
(Mode Lock : X, 3 [ST])

OTHER PROGRAM DATA READ
(Mode Lock : X, 4 [ST])



USER SYSTEM OPTION READ
 (Mode Lock : X, 5 [ST])

Thank you
 Call again

03-11-89
 23001

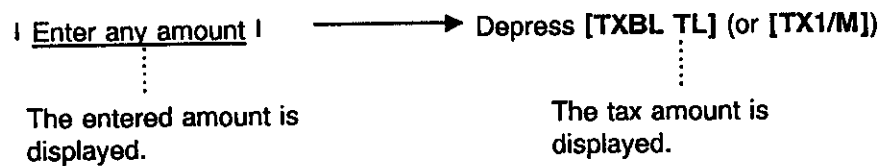
X

01	12
02	0
03	0
04	0
05	0
06	234
07	167
08	23
09	235
10	0
11	0
12	0
13	0

0035

Ask your TEC representative for information of the User System Option selections for your store, if necessary.

TAX CALCURATION TEST (Mode Locck : X)



12. PAPER ROLL REPLACEMENT AND OTHER MAINTENANCE OPERATIONS

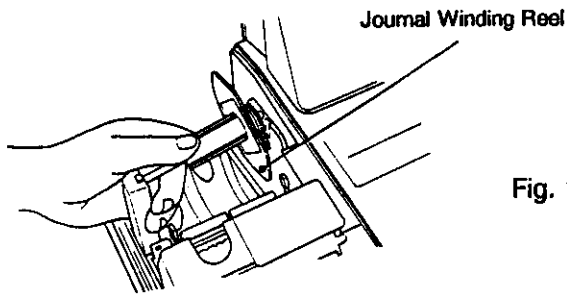


Fig. 1

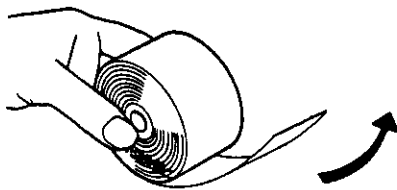


Fig. 2

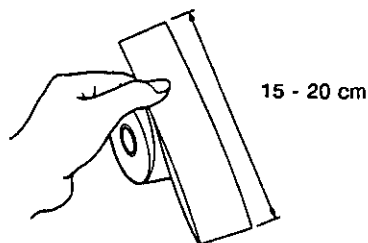


Fig. 3

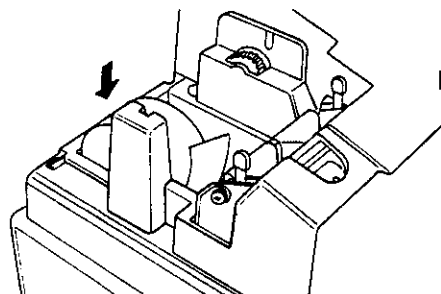
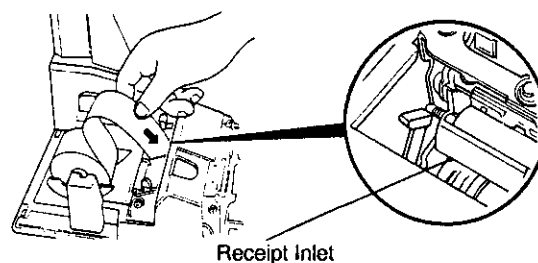


Fig. 4

INSTALLING THE RECEIPT PAPER

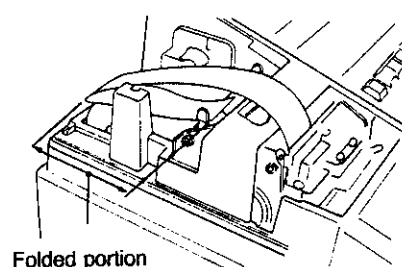
1. Turn the Mode Lock to the "REG" position.
2. Remove the Paper Cover, and remove the Journal Winding Reel. (Fig. 1)
3. Hold a new paper in the direction as shown in Fig. 2 so that the paper end will be fed from the bottom.
4. Fold the paper end firmly as shown in Fig. 3 to ease the insertion.
5. Place the paper roll in the outer-side holder of the two roll holders. (Fig. 4)
6. Insert the paper end into the Receipt Inlet, feed the paper in while pressing down the [RF] key. (Fig. 5)
7. When all the folded portion comes out, tear off the unnecessary part with attached cutting edge. (Fig. 6)
8. Go on to INSTALLING THE JOURNAL PAPER steps if necessary, or go on to Step 9 below if not.
9. Attach the Paper Cover.
10. Depress the [NS] key to issue a receipt to check if the paper has properly been set.

Fig. 5

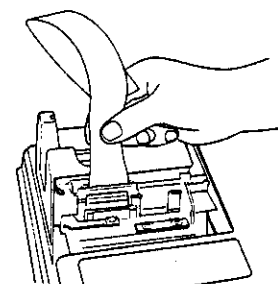


Receipt Inlet

Fig. 6



Folded portion



Cut the paper with the edge.

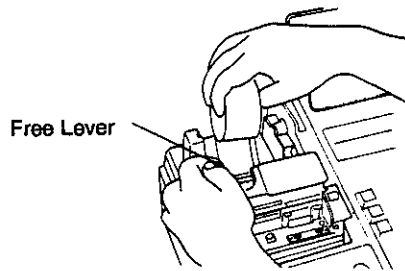


Fig. 7

REMOVING THE RECEIPT PAPER

1. Remove the Paper Cover.
2. Press the Free Lever down and pull the old paper core upward to remove the remaining paper end. (Fig. 7)

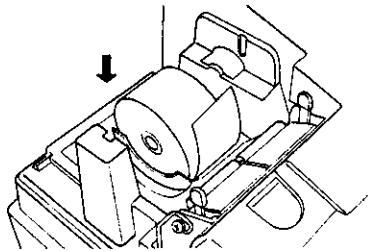


Fig. 8

INSTALLING THE JOURNAL PAPER

1. Turn the Mode Lock to the "REG" position.
2. Remove the Paper Cover by pulling it upward, and remove the Journal Winding Reel. (Fig. 1)
3. Follow Steps 3 and 4 of INSTALLING THE RECEIPT PAPER on the previous page.
4. Place the paper roll in the inner-side roll holder of the two holders. (Fig. 8)
5. Insert the paper end into the Journal Inlet, feed the paper in while pressing down the [JF] key. (Fig. 9)
6. When the paper comes out for a enough length, open the folded end. (Fig. 10)
7. Wind the paper end on the Journal Winding Reel two or three times as shown in Fig. 11.
8. Set the Journal Winding Reel to the Reel Holder. (Fig. 12)
9. Attach the paper cover.

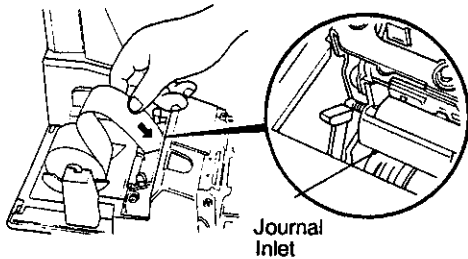


Fig. 9

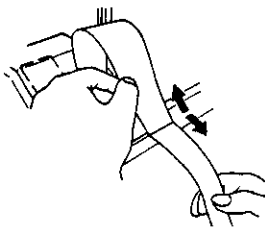


Fig. 10

REMOVING THE JOURNAL PAPER

1. Remove the Paper Cover.
2. Press the [JF] key to wind up enough portion of the journal paper, and then tear off the paper, holding the Journal Winding Reel.
3. The wound-up portion of the paper can easily be removed from the Reel by pulling it side way. (Fig. 13)
4. If enough paper remains on the roll, follow Steps 6 through 9 above; if paper is running out, follow Steps 1 through 9 above.

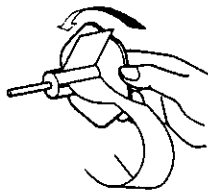


Fig. 11

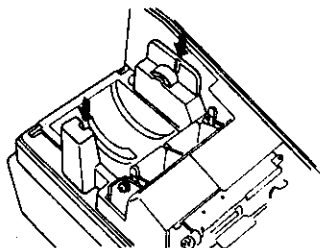


Fig. 12

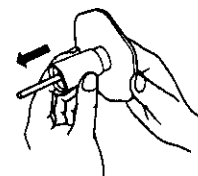


Fig. 13

REPLACING THE INK ROLL

When the receipt and journal print becomes too light to read, replace the Ink Roll in the following manner.

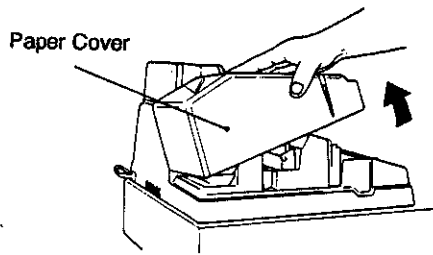


Fig. 1

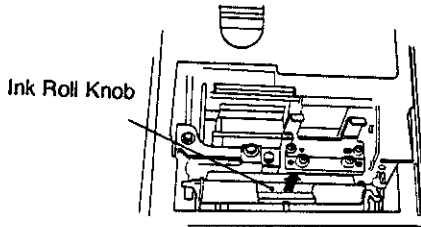


Fig. 2

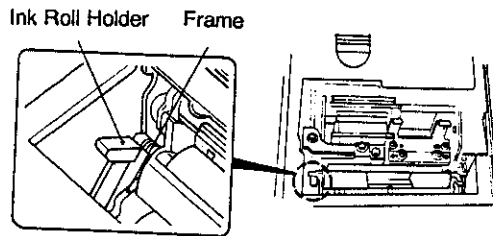


Fig. 3

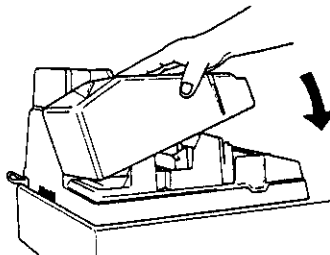
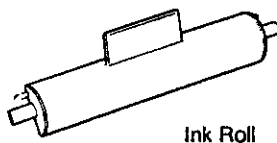
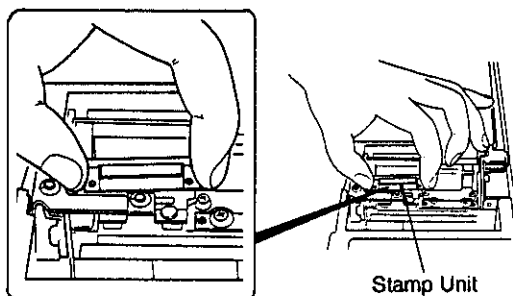


Fig. 4



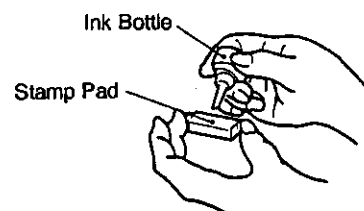
Ink Roll

Fig. 5



Stamp Unit

Fig. 6



Stamp Pad

Ink Bottle

Fig. 7

1. Turn the Mode Lock to the "OFF" position.
 2. Remove the Paper Cover. (Fig. 1)
 3. Hold the Ink Roll Knob and pull it upward. The Ink Roll will be removed. (Fig. 2)
 4. Insert a new Ink Roll into the space between the Ink Roll Holder and the Frame. (Fig. 3)
 5. When replacement is completed, attach the Paper Cover (Fig. 4) and turn the Mode Lock to the "REG" position.
- * The Ink Roll is a consumable product and a genuine part supplied by TEC. Ask your TEC representative for an additional order. (Fig. 5)

REPLENISHING INK TO THE STORE MESSAGE STAMP

When the store message is printed too lightly, replenish ink in the following manner.

1. Turn the Mode Lock to the "OFF" position.
2. Open the Paper Cover. (Fig. 1)
3. Hold the both sides of the stamp unit with your fingers and remove it by pulling it upward. (Fig. 6)
4. Apply ink to the replenishment pad at the back of the stamp unit. The amount of refilling should be adjusted according to the density of the printed message. (The supplied ink bottle contains 5cc of ink.) (Fig. 7)
5. When replenishing of ink is completed, attach the Paper Cover (Fig. 4) and turn the Mode Lock to the "REG" position.

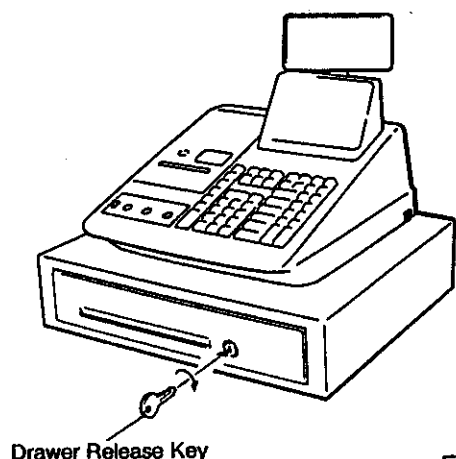


Fig. 1

MANUAL DRAWER RELEASING

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

1. Insert the Drawer Release Key into the Drawer Release Lock and turn the key clockwise. The drawer will now open. (Fig. 1)
2. The Drawer Release Key can be taken out by returning it to the original position.
3. When the drawer is closed, it is automatically locked and will not open without the Drawer Release Key or normal registering operation.

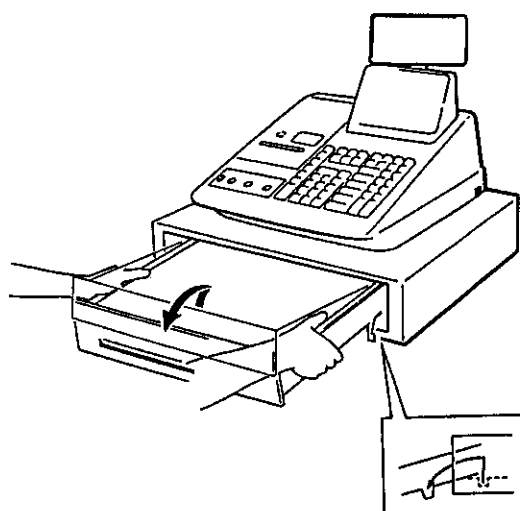


Fig. 2

REMOVING THE DRAWER

1. Pull the drawer out, and when it stops by the stopper, lift the drawer up and pull it again (Fig. 2). When it stops again by the roller fixed in the drawer case, lift it and pull it again (Fig. 3).
2. When returning to drawer, follow the reverse procedure to removing.

CDC (Cash Drawer Cover) LOCK

Locking (Fig. 4)

1. Push the Cash Drawer Cover to the drawer-end.
2. Press the cover lightly, insert the key into the key-hole on the cover, and turn it to lock.

Opening

Release the lock by the key, and lift the front end of the cover.

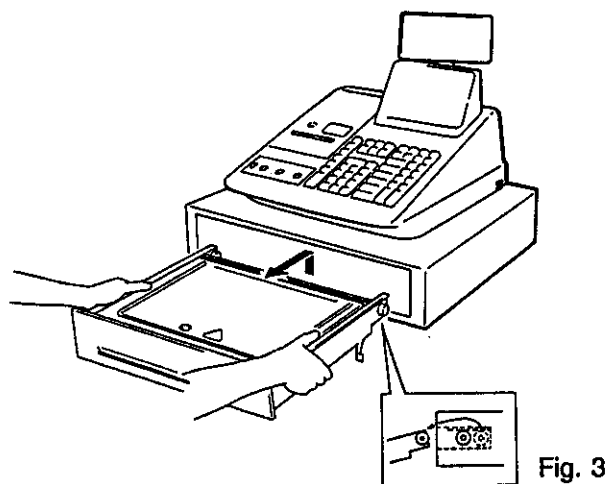


Fig. 3

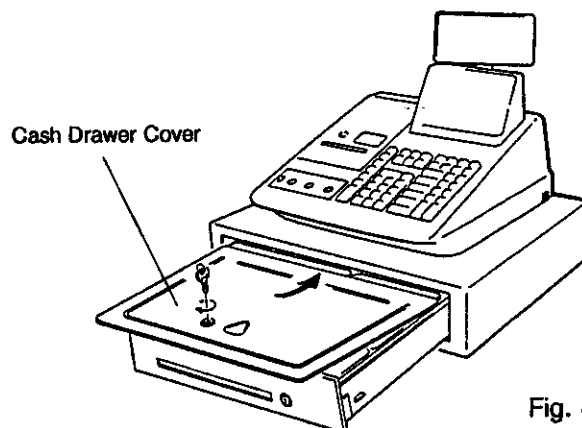


Fig. 4


13. SPECIFICATIONS

Size	460mm (width) x 400mm (depth) x 333mm (height) (including rubber feet) (or 416mm (height) when Customer's Display is popped up)
Weight	16kg
Power Required	AC 100V, 110V, 117V, 220V, 240V; 50/60Hz
Power Consumed	0.33A (117V)
Size of Receipt and Journal	38mm (width) x 70mm (diameter)
Ambient Temperature	0°C to 40°C
Relative Humidity	10% to 90%

Memo



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