TEC

TEC Electronic Cash Register

MA-216-100 SERIES

Owner's Manual

TOKYO ELECTRIC CO., LTD.

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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

Customer Display

Operator Display

Journal Window

Receipt Outlet

Clerk Locks

Mode Lock

Drawer

Keyboard
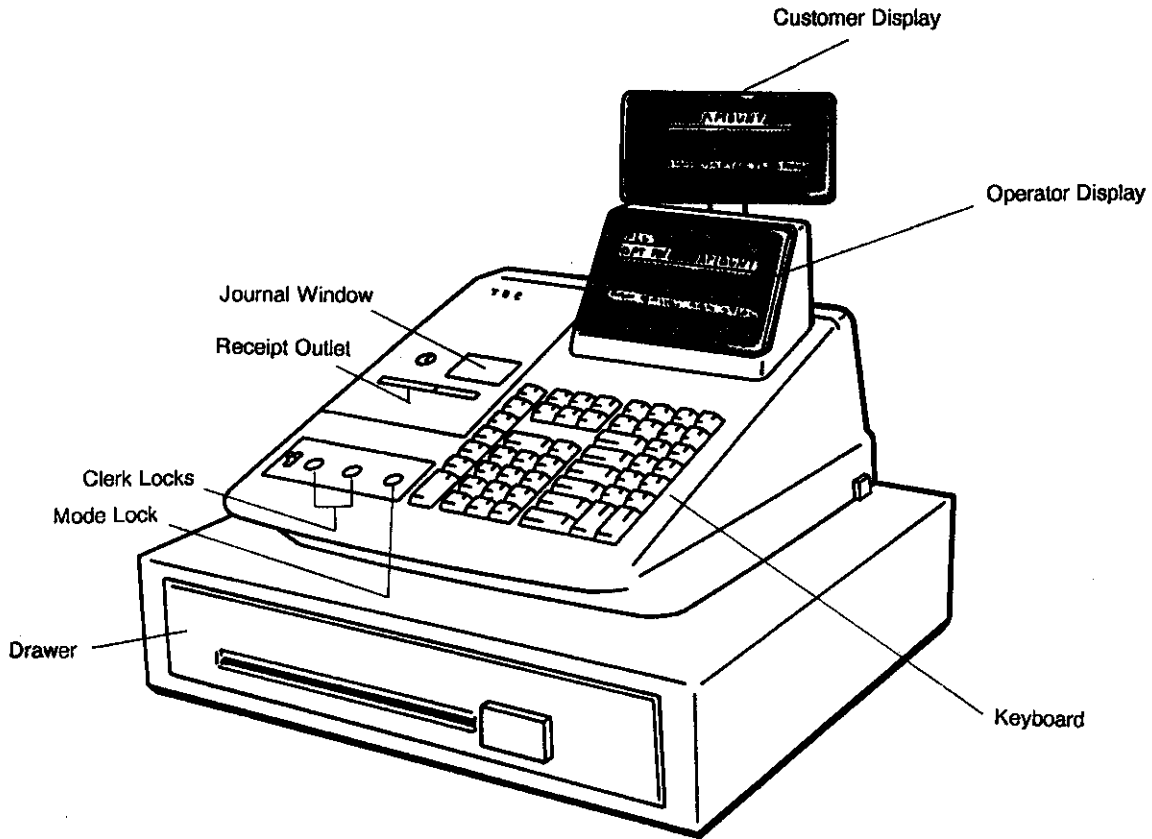
4. MODE LOCK AND CLERK LOCKS
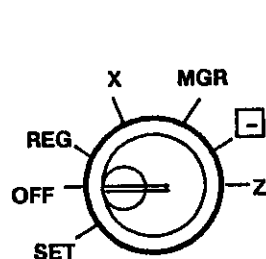
4-1 MODE LOCK   (POSITION)   (FUNCTION)

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.

[-] . . . 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)
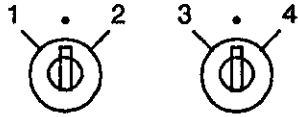
1 . 2   3 . 4

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)

| 1 | 2 | 3 | 4 |
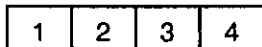
This type may be installed in place of the standard key-lock type mentioned above, as an alternative option. Each clerk is assigned his/her own clerk key (1 to 4). The register will not operate unless one of these keys is pushed down.

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 keep 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.
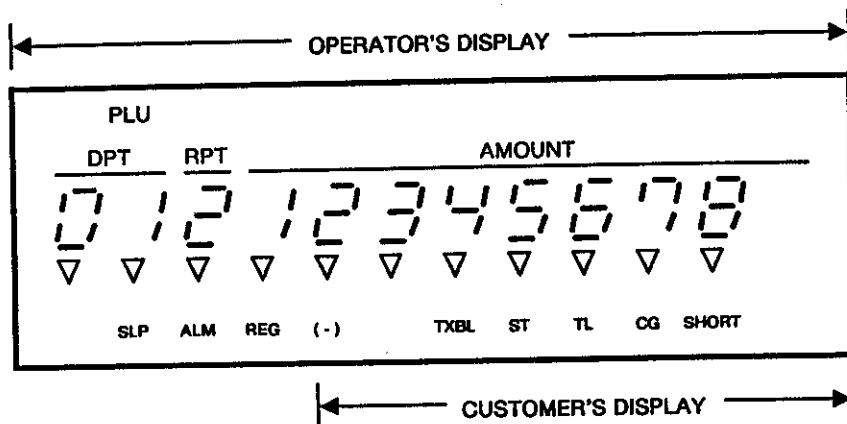
NUMERIC DISPLAY

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 ---

Department Keys

NS	VALI DATE	RF	JF		RECEIPT ISSUE	#	% +	%-
PR OPEN	RTN MDSE	DOLL DISC	ITEM CORR		R/A	PO	EX	CUR
LC OPEN							1	7	CPN
TX1/M	C		@/ FOR				2	8	MISC
TX2/M	7	8	9				3	9	Chg
AMT	4	5	6				4	10	CHECK TEND
PLU	1	2	3				5	ST	AT/TL
	0	00	●				6		
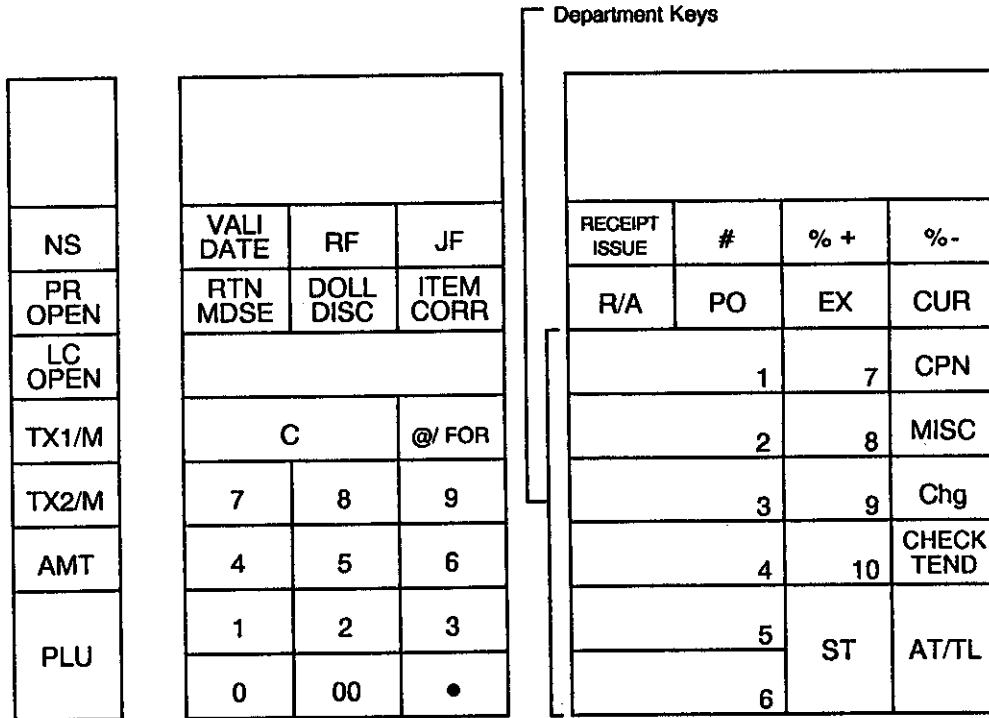
Other keys not placed in the keyboard above :

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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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
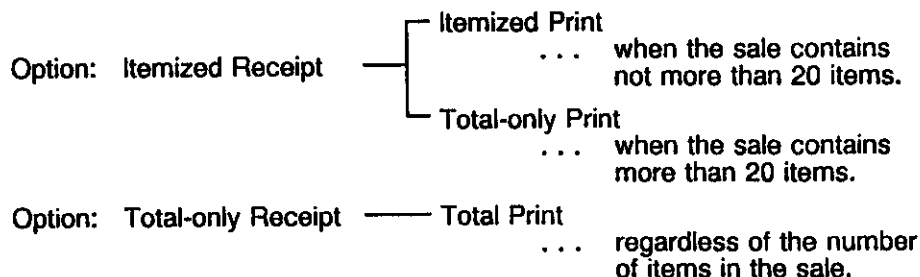
RECEIPT FEED KEY ([RF])

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.
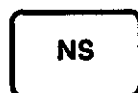A maximum of three digits may be entered below the decimal point.

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.
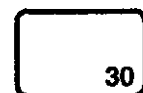
DEPARTMENT KEYS ([DEPT])

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.

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])

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.

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.

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.

TAXABLE TOTAL KEY ([TXBL TL])

| 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.

CASH AMOUNT TENDERED / CASH TOTAL KEY ([AT/TL])
-- Cash Media Key

| AT/TL |

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 TENDER KEY ([CHECK TEND])

```
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.

CHARGE KEY ([Chg])

```
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.

MISCELLANEOUS MEDIA KEY ([MISC])

```
MISC
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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.

MEDIA-COUPON KEY ([CPN])

```
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.

VALI 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.

TABLE OF CONTENTS

NO-SALE (must be operated outside a sale)

[NS]

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY													
		PLU DPT RPT					AMOUNT								
		SL	AL	RB	J			PC	ST	TL	CG	CH			
You want to test the printer condition before starting operations for the day. Or a customer requests to break a bill.	[NS] The drawer opens.										0	0	0		

Thank you
Call again

0 3 - 1 1 - 8 9 ——— Date
2 3 0 0 1 ——— Register No.

★   No-sale Symbol

1 8 - 0 0 4 0 ——— Receipt Consecutive No.

Clerk ID   Time Print (if Time Print is selected).
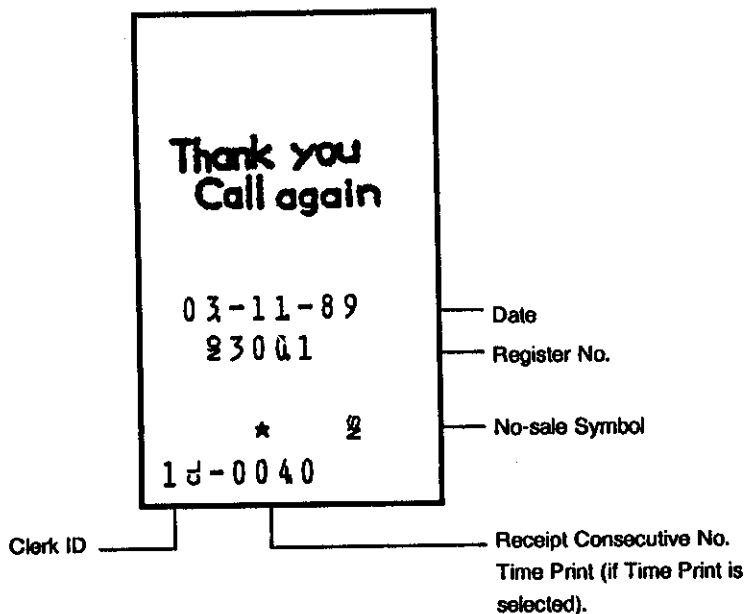
RECEIVED-ON-ACCOUNT (must be operated outside a sale)

| Amount of Payment Received | [R/A] → [AT/TL]

→ | Check Amount Tendered | [CHECK TEND]

→ Other Media Finalization

Repeatable if multiple amounts are received in one receipt sequence.
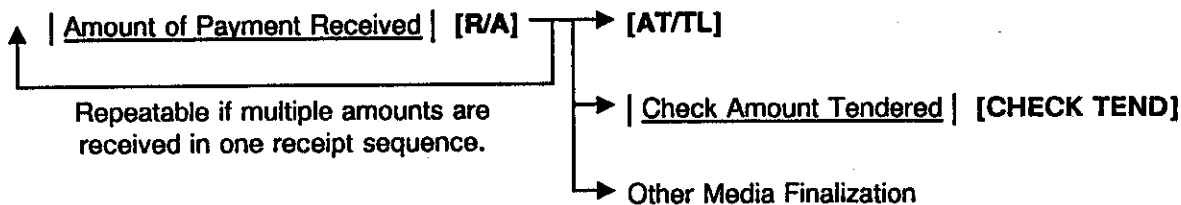
NOTE : *The media keys used for this operation must be programmed to allow received-on-account entries.*

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY PLU DPT RPT	AMOUNT								
		SL AL RE ( )	TX	ST	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.	15					0.	1	5			
	[#]					0.	1	5			
	1000			1	0.	0	0				
	[R/A]			1	0.	0	0				
• Paid Amount $10.00	250				2.	5	0				
• Paid Amount $2.50	[R/A]				2.	5	0				
The customer tenders the exact a amount in cash. Receive $12.50 and put it in the drawer.	[AT/TL]			1	2. ▼	5	0				

```
  Thank you
   Call again


   03-11-89
    23001

 #15
     *1000   RA
      *250   RA
     *1250   5E
  18-0041
```

PAID-OUT (must be operated outside a sale)

| Amount to be paid out | [PO] ──┬──► [AT/TL]
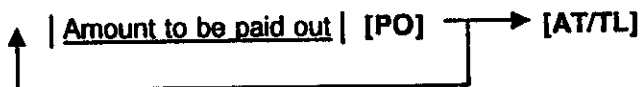
Repeatable if multiple amounts to be paid out are recorded in one receipt sequence.

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

```
    Thank you
    Call again


    03-11-89
    ₂3001

#2003
      *450    PO
      *320    PO
      *770    TL
 1ᴶ-0042
```
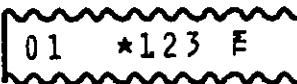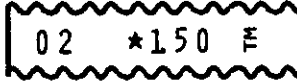
DEPARTMENT ENTRY

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 DPT / RPT		AMOUNT									
		CL	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] 〜〜〜〜〜〜〜 ⎰ 0 1 *1 2 3 ᴴ ⎱ 〜〜〜〜〜〜〜	0 1	▼			▼		1. 2 3 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.)	[DEPT 2] 〜〜〜〜〜〜〜 ⎰ 0 2 *2 5 0 ᴴ ⎱ 〜〜〜〜〜〜〜	0 2	▼			▼		2. 5 0					
A Dept.2 item of $1.50. (which is preset with price of $2.50.)	[PR OPEN] 150 [DEPT 2] 〜〜〜〜〜〜〜 ⎰ 0 2 *1 5 0 ᴴ ⎱ 〜〜〜〜〜〜〜	0 2	▼ ▼ ▼			▼		0. 0 0 1. 5 0 1. 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 1. 4 8					

Thank you
   Call again

  0 3 - 1 1 - 8 9
    2 3 0 0 1

  0 5   ★1 4 0 TH
         ★0 0 8 TX
         ★1 4 8 SL
  1 8 - 0 0 4 6

PLU ENTRY

Preset PLU (Itemized PLU)
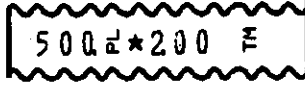
(--- ➔) | PLU Code | [PLU] ➔ ---

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 DPT RPT	AMOUNT
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 ट★3 0 0 ⊞ 〜〜〜〜〜	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 ट★2 0 0 ⊞ 〜〜〜〜〜	5 0 0 5 0 0 5 0 0	5 0 0 / 0 0 0 / 2 0 0 / 2 0 0

REPEAT ENTRY

(1) Department Repeat

· Open Dept

(--- ➔) | <u>Price</u> | [Open DEPT] ➔ [same DEPT] ➔ ---

· Preset Dept

(--- ➔) [Preset DEPT] ➔ [same DEPT] ➔ ---

(2) PLU Repeat

· Open PLU

(--- ➔) | <u>PLU Code</u> | [PLU] | <u>Price</u> | [AMT] ➔ [AMT] ➔ ---

· Preset PLU

(--- ➔) | <u>PLU Code</u> | [PLU] ➔ [PLU] ➔ ---

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

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY									
		PLU DPT RPT			AMOUNT						
		SL	AL	RE	(-)	TX	ST	TL	CG	$H	
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	
2 items of Dept.2 (preset dept), preset price $2.50	[DEPT 2]	0	2		▼		▼	2.	5	0	
	[DEPT 2]	0	2	2	▼		▼	2.	5	0	

```
01    *120   F
01    *120   F
01    *120   F
02    *250   F
02    *250   F
```

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 DPT RPT		AMOUNT
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
           3.0 0      @
011⇄1500    ₣
    6    X
           200       @
500⇄1200    ₣
```

SPLIT PACKAGE PRICING

- Preset Dept

(--- →) | Purchased Q'ty | [@/FOR] | Whole Package Q'ty | [@/FOR] ─────┐

──────────────────► [Preset DEPT] → ---

- Open Dept

(--- →) | Purchased Q'ty | [@/FOR] | Whole Package Q'ty | ─────────┐
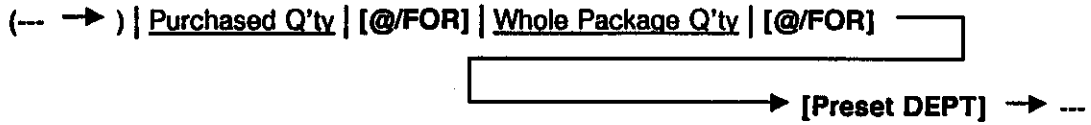
└────► | Whole Package Price | → [Open DEPT] → ---
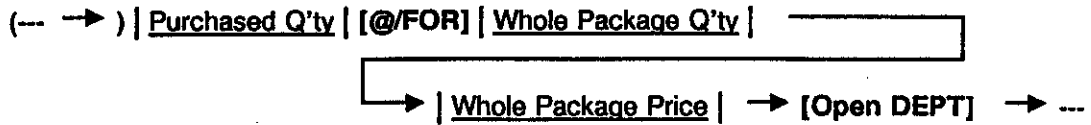
NOTES : 1. Purchased Quantity . . . . *max. 3 digits integral only*
Whole Package Quantity . . . . *max. 3 digits integral only*
Whole Package Price . . . . *max. 6 digits*

2. *The fraction of the result is rounded up in split price operations.*

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY PLU DPT RPT		AMOUNT
		SL AL RE IT	TX ST TL DG SH	
To enter :				
3 items out of 5 items in a package of Dept.2 (preset dept.)	3			0. 0 3
	[@/FOR]			0. 0 3
	5			0. 0 5
	[@/FOR]			0. 0 5
	[DEPT 2]	0 2	▼ ▼	1. 5 0

```
 5★ 250    @
 3   X
02  ★150   E
```

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RETURNED MERCHANDISE or DESIGNATED LINE VOID

(--- →) [RTN MDSE] → | DEPARTMENT ENTRY | → ---
| PLU ENTRY |
| QUANTITY EXTENSION |
| SPLIT PACKAGE PRICING |

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY										
		PLU					AMOUNT					
		DPT	RPT									
		SL	AL	RE	[ ]		TX	ST	TL	CG	BN	
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.	[RTN MDSE]									0. 0 0	
	500									5. 0 0	
The sale total is now negative, therefore the total amount displayed must be paid back to the customer in cash.	[DEPT 1]	0 1		▼	▼		▼			5. 0 0	
	[AT/TL]					▼			▼	5. 8 0	

```
        Thank you
        Call again


        03-11-89
        23001


   01    *5.00   TM
                 RT
         -0.80   TX
         -5.80   CA
                 TL
   1d-0054
```
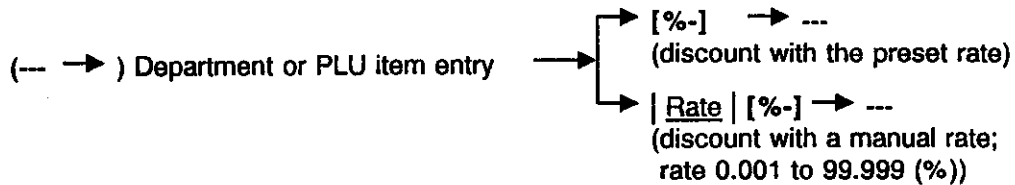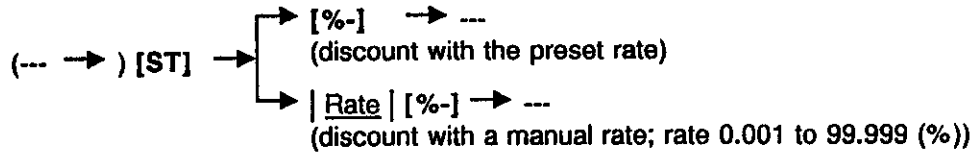
PERCENT DISCOUNT
(PERCENT CHARGE operates the same with **[% +]** instead of **[%-]**)

Discount from a Department or PLU item :

(--- ➔) Department or PLU item entry ➔

- ➔ **[%-]** ➔ ---
  (discount with the preset rate)
- ➔ | Rate | **[%-]** ➔ ---
  (discount with a manual rate; rate 0.001 to 99.999 (%))
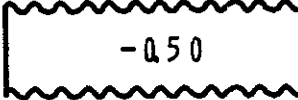
Discount from the entire sale total :

(--- ➔) **[ST]** ➔

- ➔ **[%-]** ➔ ---
  (discount with the preset rate)
- ➔ | Rate | **[%-]** ➔ ---
  (discount with a manual rate; rate 0.001 to 99.999 (%))

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY PLU DPT RPT		AMOUNT
Percent Discount from a Department Item A Dept.1 item of $2.00 is entered. 5% is discounted from the above item. ⋮	200 [DEPT 1] [%-] (if 5% is preset) 〰〰〰〰〰〰〰〰 01 *200 E 5 %- -0.10 〰〰〰〰〰〰〰〰	0 1		2.00 2.00 0.10
Percent Discount from a Sale Total 10% is subtracted from entire sale total. ⋮	Sale items have been entered [ST] 10 (Manual % Rate) [%-] 〰〰〰〰〰〰〰〰 *5.00 ST 10 %- -0.50 〰〰〰〰〰〰〰〰			5.80 0.10 0.50

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DOLLAR DISCOUNT

(--- →) | Amount to be discounted | [DOLL DISC] → ---   (An amount exceeding the
subtotal cannot be entered
through the [DOLL DISC]
key unless the option
"Credit Balance Allowed"
is selected.)

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY PLU DPT RPT		AMOUNT		
		SL AL RE (L)	TL ST TL DO SH			
During a sale an amount of $0.50 is discounted from the sale.	Sale items have been entered. 50 [DOLL DISC] -0.50	▼ ▼ ▼		0.5 0 0.5 0		

ITEM CORRECT (Last Line Voiding)

(--- �)	DEPARTMENT ENTRY (except Single-item Dept) PLU ENTRY (except Single-item PLU) REPEAT ENTRY QUANTITY EXTENSION (except Single-item Dept) PERCENT DISCOUNT DOLLAR DISCOUNT RECEIVED-ON-ACCOUNT PAID-OUT MANUAL TAX SPLIT PACKAGE PRICING	➤ [ITEM CORR] ➤ --- The very last item in the sale will be deleted from the sale total.
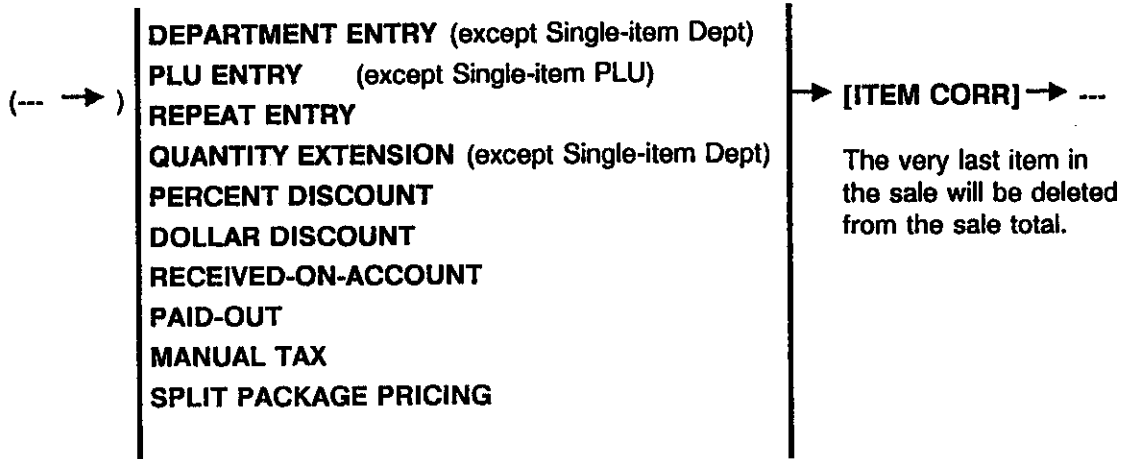
NOTES : 1) When [ITEM CORR] is operated after a REPEAT ENTRY, only the last item
of the repeated entries is deleted.

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 DPT RPT				AMOUNT		
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 - E S	0 2 0 2 0				2. 5 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] 5 X 130 @ 0 1 - - *6 5 0 - E S	 0 1 0 1 0				0. 0 5 0. 0 5 1. 3 0 6. 5 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.

MANUAL TAX ENTRY (where irregular tax amount addition is applied)

(--- ➔) | Irregular Tax Amount to be added | [TAX]   ➔ ---

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY PLU DPT RPT	AMOUNT SL AL RE TX ST TL CG SH
Sale items have been entered. You enter a manual tax amount of $0.50 to be added.	50 [TAX] *0.50 ᵀˣ	▼ ▼	0. 5 0 ▼ 0. 5 0

SUBTOTAL (Sale Total Pre-taxed) READ

--- ➔ [ST]   ➔ ---   The sale total of the items so far entered is displayed and printed. The displayed amount includes tax (or does not include tax if so programmed), while the printed amount does not include tax.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY PLU DPT RPT	AMOUNT SL AL RE TX ST TL CG SH
Sale items have been entered. You want to know the subtotal here.	[ST] *5.50 ˢᵀ	▼	▼ ▼ 6. 2 3

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TAXABLE TOTAL (Sale Total With Taxes) READ

--- → [TXBL TL] → --- The sale total including tax due of the items so far entered
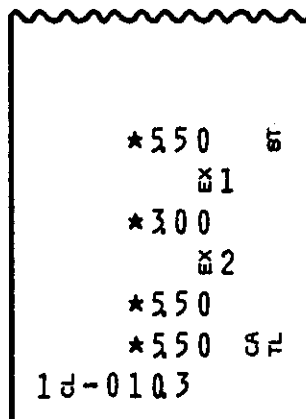is displayed, but not printed.

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY PLU RPT RPT AMOUNT
Sale items have been entered. You want to know the current sale total including taxes.	[TXBL TL]	6 2 3

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 DPT RPT					AMOUNT					
		SL	AL	RE			TX	ST	TL	CO	SH	
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 ▼			

```
  *5.50    ST
       EX1
  *3.00
       EX2
  *5.50
  *5.50   ST
1d-0103
```

SALE FINALIZATION BY MEDIA KEYS

```
--- → ( [ST] or [TXBL TL] ) ──────┐                      ┌──→ [AT/TL]
                                   │  finalize without tendering  ├──→ [CHECK TEND]
                                   └──→ I Tendered Amount I ───┤   ├──→ [Chg]
                                                              ├──→ [MISC]
                                                              └──→ [CPN]
```
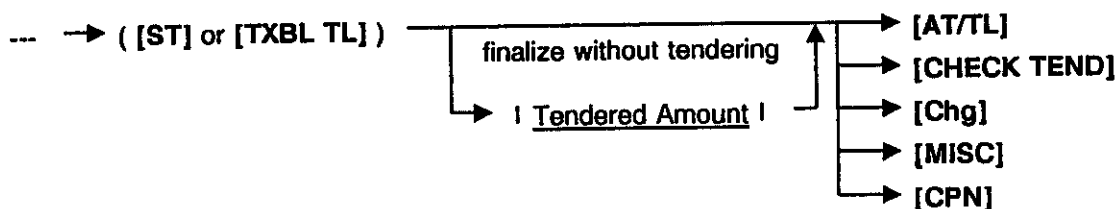
NOTES : 1. Whether each Media Key is depressed with a prior tendered amount entry or not is determined by the key status selections programmed for each media key.

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

```
 ~~~~~~~~~~~~~~~~~~           ~~~~~~~~~~~~~~~~~~
    *5.50    ST                 *5.50    ST
    *0.73    TX              #1001
    *6.23    TL                 *0.73    TX
   *10.00    CA                 *6.23    ST TL
    *3.77    CG              1d-0066
  1d-0065
```

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

```
---  → ([ST] or [TXBL TL]) → | Amount Tendered | [MEDIA] ┐
                    └→ | Amount Tendered | [MEDIA] ┐
                       └→ ( | Amount Tendered | ) [MEDIA]
```
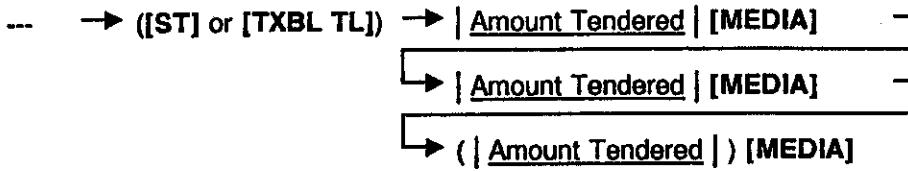
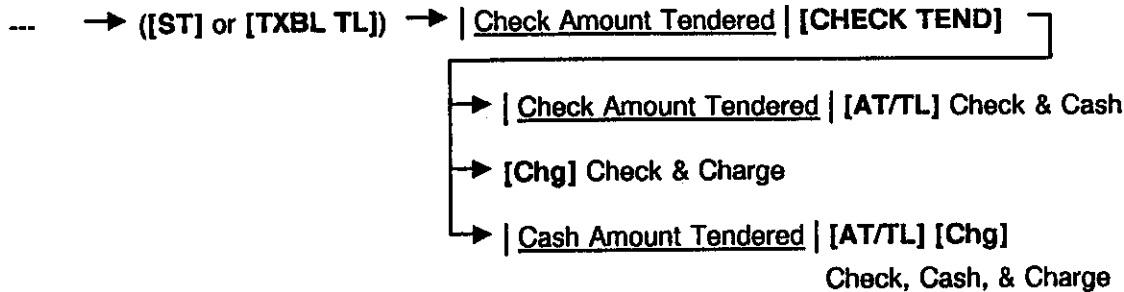*NOTE :* *In MULTI-TENDER operation, the sale is finalized and the drawer opens on reaching the sale total amount.*

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY PLU DPT RPT					AMOUNT					
		SL	AL	RE	|	|	TX	ST	TL	CO	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]		▼						5.0 0	1.2 3	▼
The customer then tenders another $5.00 in cash.	500		▼							5.0 0	
The sale is new over-tendered, finalized, and change computed. Give the change to the customer in cash.	[AT/TL]		▼							3.7 7	▼

```
    ★0.73  TX
    ★6.23  TL
    ★5.00  S
    ★5.00  S
    ★3.77  CG
1d-0067
```

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

Example 1)

--- → ([ST] or [TXBL TL]) → | Check Amount Tendered | [CHECK TEND]

→ | Check Amount Tendered | [AT/TL] Check & Cash

→ [Chg] Check & Charge

→ | Cash Amount Tendered | [AT/TL] [Chg]
Check, Cash, & Charge

Example 2)

--- → ([ST] or [TXBL TL]) → | Cash Amount Tendered | [AT/TL] → [Chg]
Cash & Charge

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

- 41 -

```
  *169
 *1319
 *1000
  *500
  *181
1J-0068
```

```
  *169
 *1319
 *1000
  *319
1J-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.
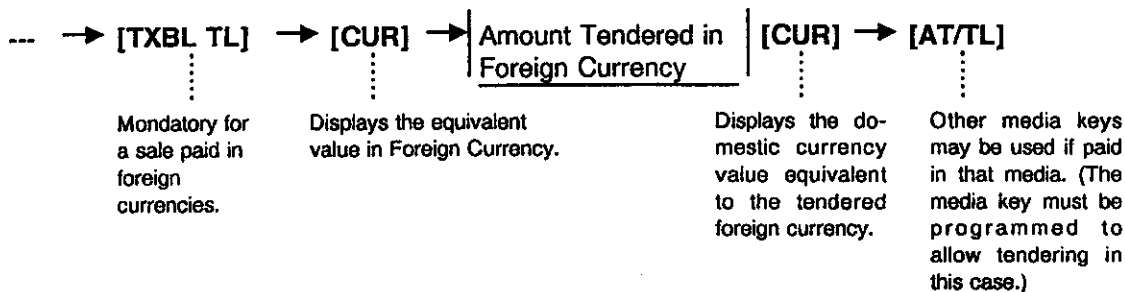
NOTE :   *Other non-cash media keys may be used for this purpose if programmed to allow no-purchase cashing.*

SAMPLE OPERATION CONTENTS	KEY OPERATION	DISPLAY PLU DPT RPT AMOUNT									
		SL	AL	RE (-)		TX	BT	TL	CO	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]							1 0. 0 0		

```
Thank you
Call again


03-11-89
23001

    *1000  乃と
1ਰ-0070
```

SALE PAID IN FOREIGN CURRENCIES

```
···  → [TXBL TL]  →  [CUR]  →| Amount Tendered in | [CUR]  →  [AT/TL]
                               | Foreign Currency   |
```

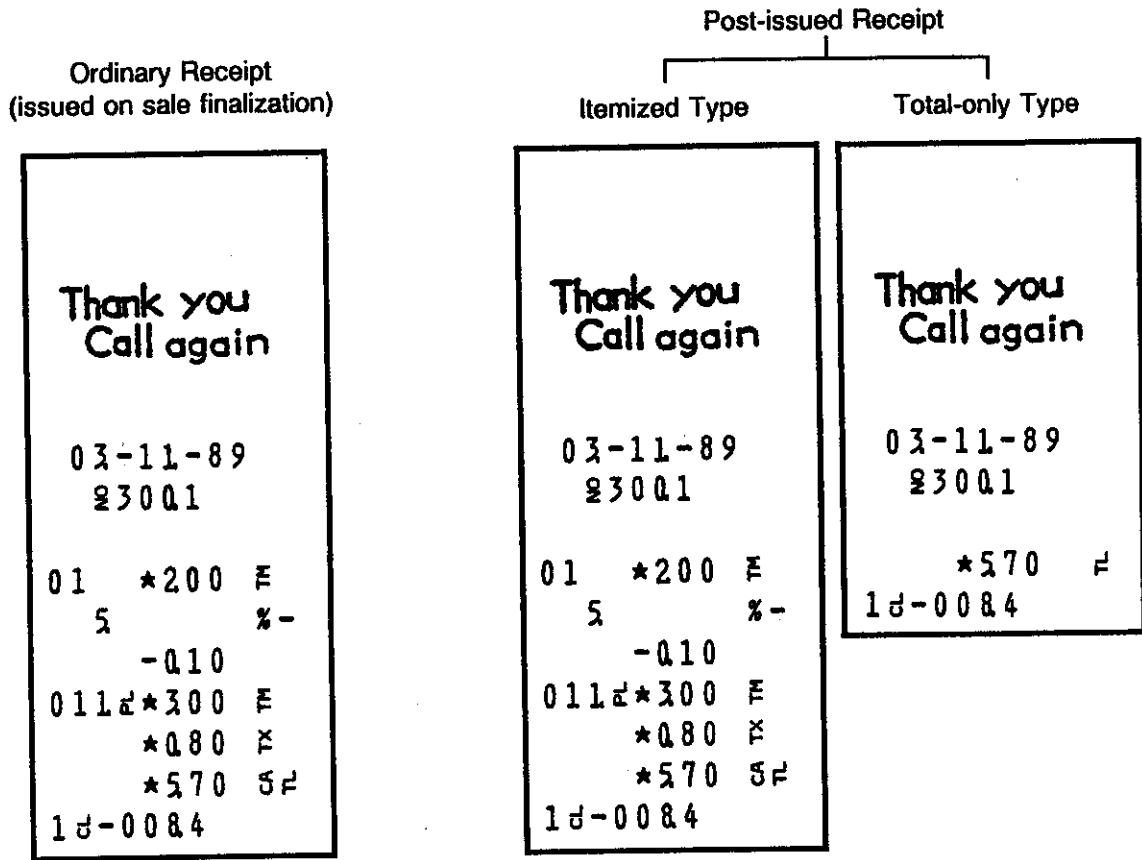|			
Mondatory for a sale paid in foreign currencies.	Displays the equivalent value in Foreign Currency.	Displays the domestic currency value equivalent to the tendered foreign currency.	Other media keys may be used if paid in that media. (The media key must be programmed to allow tendering in this case.)

NOTES:
1. When a tendering by a foreign currency occurs during a short tendered condition, the [TXBL TL] key will not be mondatory.

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 DPT RPT / AMOUNT (SL AL RE (±) TX ST TL CG SH)
Sale items have been entered.		
Obtain subtotal.	[TXBL TL]	8. 5 5
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.)	4 5. 9 4
The customer tenders an amount of F50.00 in CUR.	5000 [CUR] (The amount tendered is displayed in the domestic currency.)	5 0. 0 0 / 9. 3 1
Since paid in cash, use [AT/TL].	[AT/TL]	0. 7 6
The sale is over-tendered and finalized. Give the change (displayed in the domestic currency value) to the customer in the domestic currency.	∿∿∿∿∿∿∿ ★750 ST ★105 TX ★855 TL ★931 CA ★076 CG 18-0083	

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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.

Post-issued Receipt

Ordinary Receipt
(issued on sale finalization) | Itemized Type | Total-only Type

Thank you
Call again

03-11-89
23001

01 ★200 ⴾ
 5 %-
 -010
011ⴑ★300 ⴾ
 ★080 ⴾ
 ★570 5�080
1ⴑ-0084

Thank you
Call again

03-11-89
23001

01 ★200 ⴾ
 5 %-
 -010
011ⴑ★300 ⴾ
 ★080 ⴾ
 ★570 5ⴥ
1ⴑ-0084

Thank you
Call again

03-11-89
23001

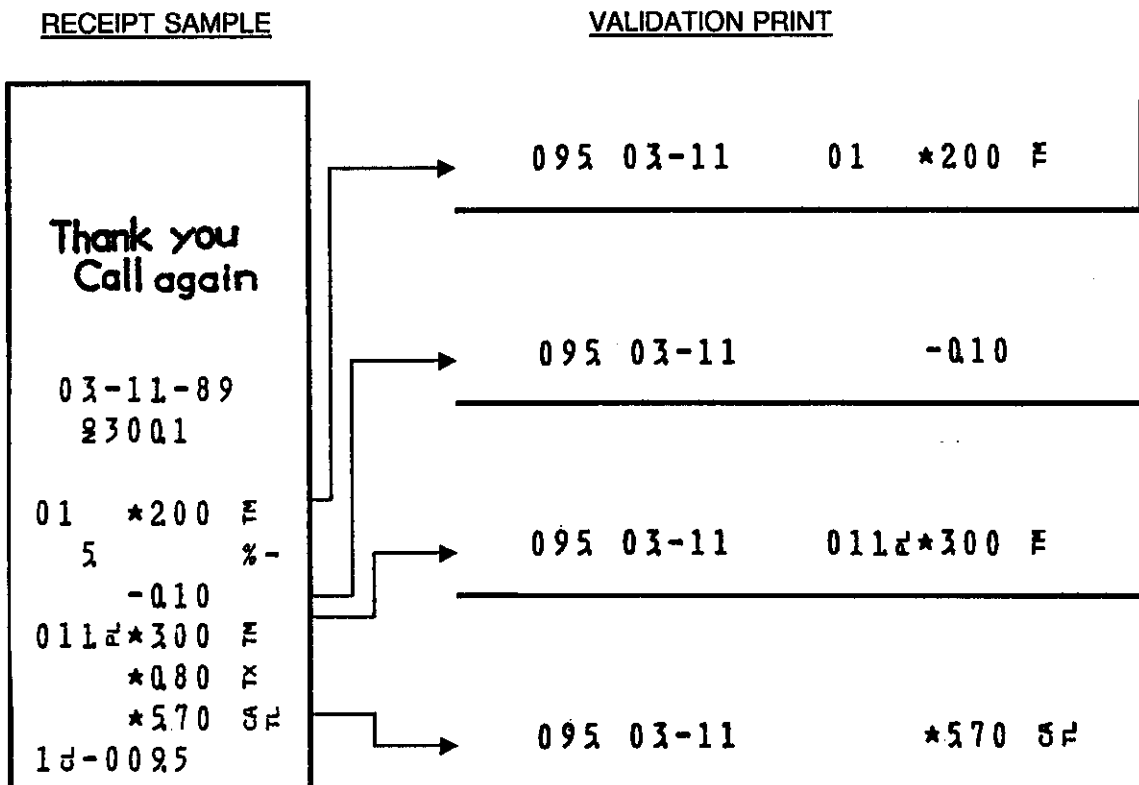 ★570 ⴥ
1ⴑ-0084

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.)*

RECEIPT SAMPLE   VALIDATION PRINT

```
Thank you
 Call again

03-11-89
  23001

01   *200  E
  5       %-
      -0.10
011d*300  E
     *0.80  TX
     *5.70  SF
1d-0095
```

095 03-11   01   *200 E

095 03-11   -0.10

095 03-11   011d*300 E

095 03-11   *5.70 SF

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 DPT RPT — AMOUNT
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  E
08  *200
    *300   X
    *5500  GT
18-0096
```

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  CA
               ₫
  1₫-0027
```

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  CA
               ₫
  1₫-0028
```

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

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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


        0 3 - 1 1 - 8 9
          23001


              X                  Report Header ("X" for read "Z" for reset)
        *240232      GT
Grand Total
            192      88          Gross Sale Item Count
        *204149      88          Gross Sale Amount
        01   14      3           Item Count
Department 1 Customer Count
            31                   Total
          *5144                  Sales Ratio
        3246         %
        02    5      3
Department 2
           66
         *3631
```

```
            1       %+          Percent Charge Count
          *0.87     %+          Percent Charge Amount
TAX 1 Amount  1
          *6.19     TX
TAX 2 Amount  2
          *7.32     TX
Tax 3 Amount  3
          *0.42     TX
           114      NS          Net Sale with Tax Item Count
        *17125      NS          Net Sale with Tax Amount
             0      %-          Percent Discount on Subtotal Count
          *0.00     %-          Percent Discount on Subtotal Amount
             1       -          Dollar Discount Count
          *0.40      -          Dollar Discount Total
All Media Sales Total Customer Count    24    3    TL
All Media Sales Total Amount   *17285         TL
Cash Sales Customer Count        21    3S
Cash Sales Amount          *15875    S
```

EO1-11003

	Receipt	
	1	Check Sales Customer Count
	*1019	Check Sales Amount
Charge Sales Customer Count	2	
Charge Sales Customer Amount	*391	
	2	Received-on-Account Count
	*1250	Received-on-Account Amount
	3	Paid Out Count
	*650	Paid Out Total
	*15568	Cash-in-drawer Amount
Check Sales Count	3	
Check-in-drawer Amount	*1740	
	4	Item Correct (on Depts) Count
	*186323	Item Correct (on Depts) Amount
	2	
Item Correct (on other items) Count	1	
Item Correct (on other items) Total	*015	
	3	Percent Discount on Line Items Count
	*024	Percent Discount on Line Items Total
Returned Merchandise Item Count	6	
Returned Merchandise Amount	*138	
	-003	Negative Tax Amount
	2	
Negative Mode (I - I) Count	1	
Negative Mode (I - I) Total Amount	*336	
	1	
	*10298	Taxable 1 Total
	2	
	*7309	Taxable 2 Total
	1	Tax Exempt Customer Count
	EX1	
	*500	Tax 1 Exempt Total
	EX2	
	*500	Tax 2 Exempt Total
	1*	Foreign Currency 1
	1	In-drawer Count
	*1000	In-drawer Total
Individual Clerk Reports	1 d**	
Customer Count	24	
Gross Sale Item Count	192	
Gross Sale Amount	*204149	
	0146	Receipt Consecutive No.
	14-17	Current Time

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ALL 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        ⊢
         *7675       ⊢
          0147
    14-20
```

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

PLU Code
Item Count
Amount

Total Count

Total Amount

ZONE PLU READ or RESET REPORT

```
        Thank you
        Call again


        03-11-89
         23001


            Z
    005∂
             5
          *375
    010∂
             4
          *800
    011∂
            17
         *5100


           26        ⊢
         *6275       ⊢
          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

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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


        0 3 - 1 1 - 8 9
          2 3 0 0 1


                X
```

Clerk No.	1 d ★ ★
Customer Count	2 4 3
Gross Sale Item Count	1 9 2 0
Gross Sale Total	★ 2 0 4 1 4 9 0

```
        1 d - 0 1 4 9
        1 4 - 2 4
```

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   8   ᴛ
        *17285       ᴛ
        *15568     5 ᴍ
           3       č
          *1740    č ᴍ
      1*
           1
        *10.00     ᴍ
        0151
      14-25
```

All Media Total Customer Count → (24)

*17285 → All Media Sales Total Amount

*15568 → Cash-in-drawer Total

3 → Check Sales Count

*1740 → Check-in-drawer Amount

1* → Foreign Currency 1

1 → In-drawer Count

*10.00 → In-drawer Total

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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    GT
    192      8
 *204149    8
01   14    3
    31
    *5144
 3246        %
02    5    3
```

```
   -003   TX
2
     1     RT
   *336    RT
1
  *10298   TX RT
2
   *7309   TX RT
    1   EX 3
        EX 1
   *500
        EX 2
   *500
1 3 **
    24    3
    192     8
 *204149   8
  0004Z
  0152
14-27
```

GT Reset Report Count

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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

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**

4 [@/FOR] → I PLU Code I [PLU]
             1 to 999

             → I Preset Price I → [DEPT] → [AT/TL]
             max. 6 dig.   linked
             → [AMT]   Dept.
             for open PLUs

Repeat for another PLU.   (max. 200 PLUs)
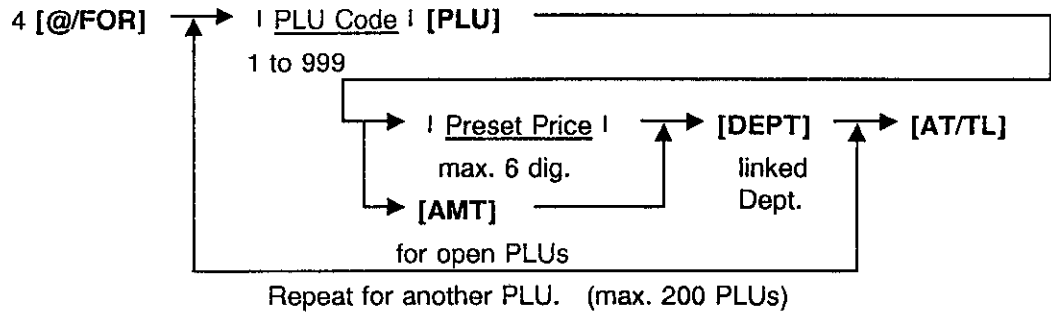
NOTES :   *1) ' I PLU Code I [PLU]' entry may be skipped if the PLU Code is sequential from
that of the PLU just set.
If this PLU code entry is skipped at very first PLU, the PLU code will
automatically programmed as PLU No. 1.*

*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.
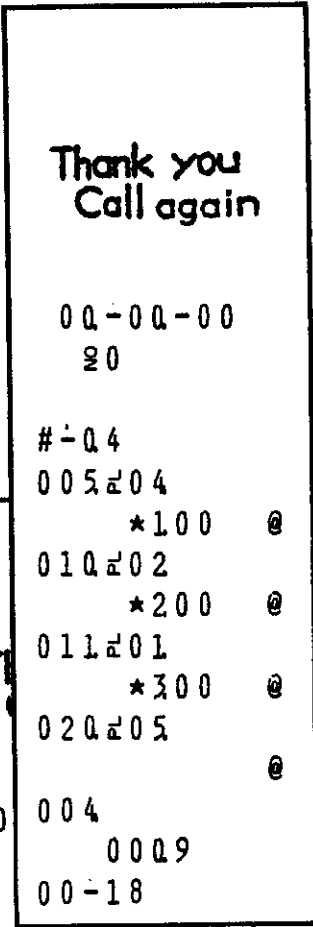
PLU TABLE DELETION

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

OPERATION Mode Lock : **SET**

4 [@/FOR] ──► [ITEM CORR] ──► I PLU Code I [PLU] ──► [AT/TL]

Repeat for other PLUs to be deleted.
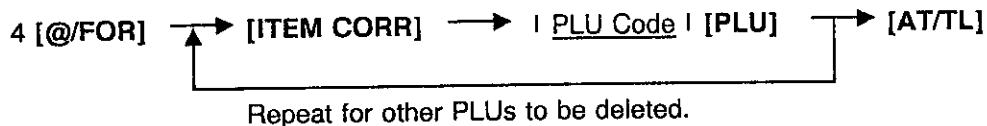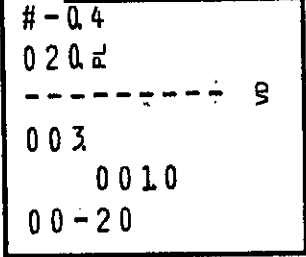
ex.) To delete PLU No. 20 once set in the above programming operation :

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**

5 [@/FOR] ⟶ ☐☐ ☐☐ ⟶ [AT/TL]

Hour — Minute 00 to 59
0 to 23
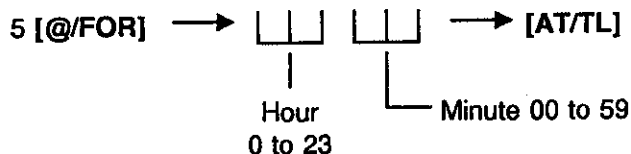
NOTES : 1) *"If an hour value of more than 23 or a minute value of more than 59 is entered, no errors will result. However, in this case, set the time again with correct values.*
2) *The date will not be changed by setting or adjusting the time.*

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]**.
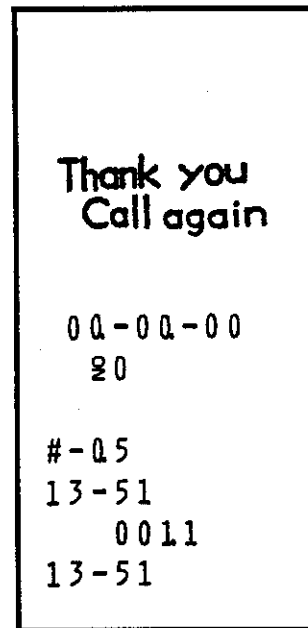
Thank you
Call again

0 Ա-0 Ա-0 0
2 0

#-Ա 5
13-51
0 0 1 1
13-51

DATE SETTING OR ADJUSTMENT

CONDITION   Any time outside a sale

OPERATION   Mode Lock : **SET**

6 [@/FOR] ⟶ ⊔⊔ ⊔⊔ ⊔⊔ ⟶ [AT/TL]

Month	Day	Year
1-12	01-31	89, 90, etc.

Year	Month	Day
89,90, etc.	01-12	01-31	········ (if YEAR-MONTH-DAY option is selected)

Day	Month	Year
1-31	01-12	89, 90, etc.	········ (if DAY-MONTH-YEAR option is selected)
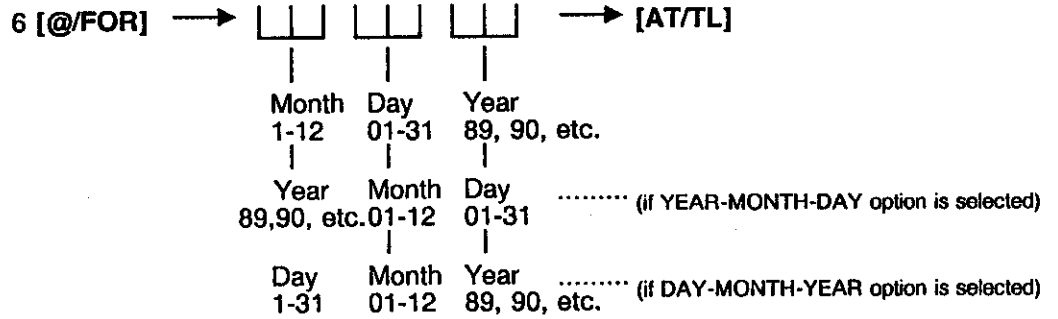
ex.)   To set the date to "March 11 1989":

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.*
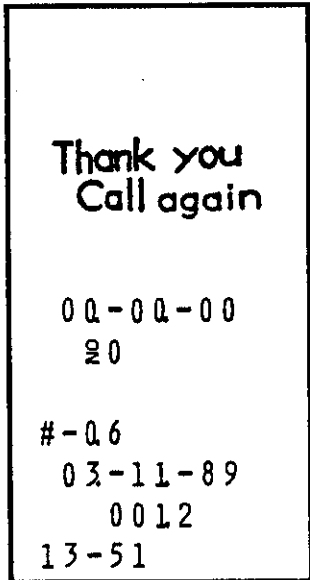
```
Thank you
Call again


0 0 - 0 0 - 0 0
NO  0

# - 0 6
  0 3 - 1 1 - 8 9
      0 0 1 2
1 3 - 5 1
```

DEPARTMENT PRESET PRICE SETTING OR CHANGING

CONDITION — Any time outside a sale.

OPERATION — Mode Lock : **SET**

↑ I <u>Preset Unit Price</u> I **[DEPT]** ————————————→ **[AT/TL]**
max. 6 digits
(0 to 999999; resulting in $0.00 to $9999.99)
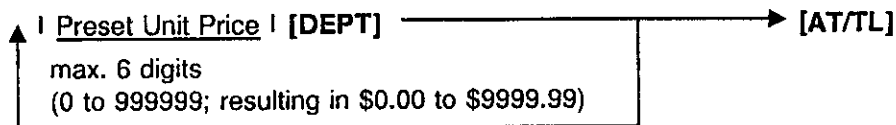
Repeatable for other departments.

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

0 3-11-89
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**

```
   ┌──► I PLU Code I [PLU] ──┬──► I New Preset Price I [#] ──┬──► [AT/TL]
   │                         ▲      max. 6 digits ;          │
   │                       * │      0 to 999999              │
   │                         │      (result : $0.00 to $9999.99) │
   └─────────────────────────┴──────────────────────────────┘
```
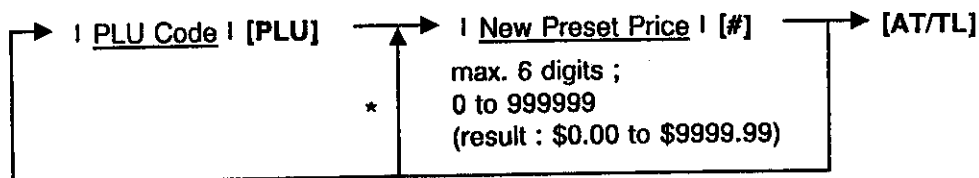
Repeatable for another PLU.

(* 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
 2300.1

#-0.0
005₁04
     *0.75   @
    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

l Preset % Rate l [% +] (For Percent Charge Preset Rate)

(0.001 to 99.999(%) ; use the [.] key if a decimal portion is contained.)

l Preset % Rate l [%-] (For Percent Discount Preset Rate)
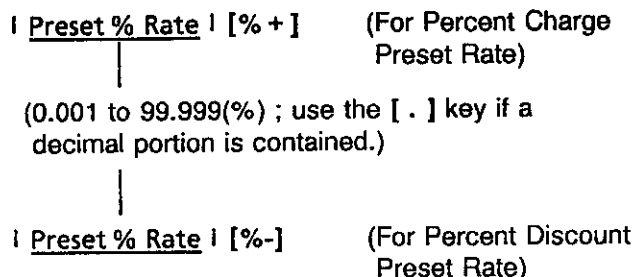
ex.) To set 10% on [% +] Key :

Mode Lock to SET, enter 10, depress [% +].

ex.) To set 5% on [%-] Key :

Mode Lock to SET, enter 5, depress [%-].

```
        Thank you
        Call again


        03-11-89
        ＄3001

    # - 0.0
        10          % +
          0023
    14-06
    # - 0.0
        5           % -
          0024
    14-06
```

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.)
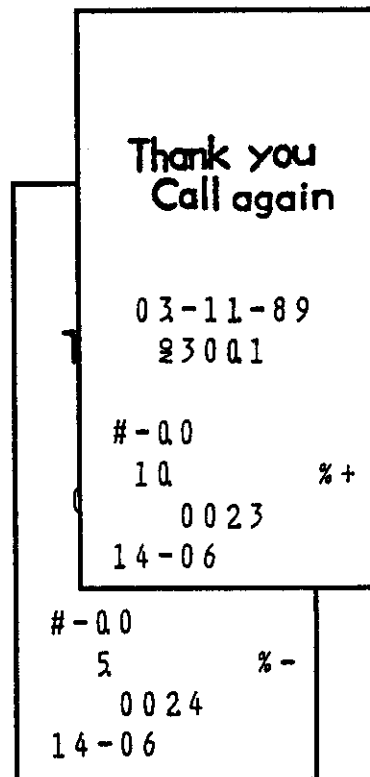
FOREIGN CURRENCY EXCHANGE RATE SETTING

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**

I Exchange Rate for Foreign Currency 1 I ⟶ **[CUR 1]**

0.000001 to 9999.999999
(Use the [.] key if decimal portion is
contained in the rate.)

⋮

I Exchange Rate for Foreign Currency 4 I ⟶ **[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¢   = xxxx.xxxxxx centimes (French Franc)
= xxxx.xxxxxx phennings (Deutsche mark)
= xxxx.xxxxxx 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

0 3-11-8 9
2 3 0 0 1

#-0 0
1 ★
        5
3 7 2 9
    0 0 2 8
1 4 - 1 4

#-0 0
1 ★
        0
0 0 2 9
1 4 - 2 0

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:

DEPARTMENT PRESET PRICE READ
(Mode Lock : **X, 1 [ST]**)
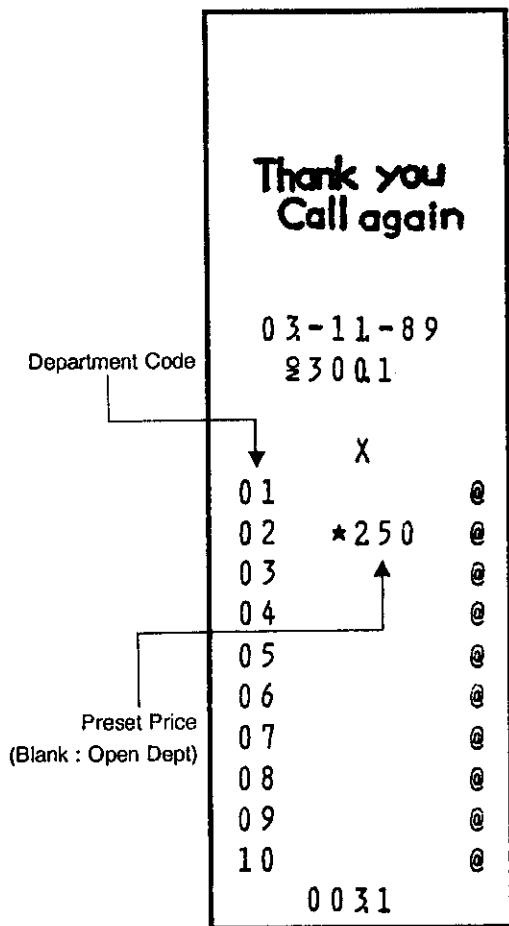
DEPARTMENT STATUS AND LC READ
(Mode Lock : **X, 2 [ST]**)

**Thank you
Call again**

Department Code

03-11-89
23001

```
      X
01            @
02    *250    @
03            @
04            @
05            @
06            @
07            @
08            @
09            @
10            @
    0031
```

Preset Price
(Blank : Open Dept)

**Thank you
Call again**

Department Code

03-11-89
23001

Single Item and/or
Other Income Status
1: Single Item
4: Other Income
5: Single Item &
  Other Income

```
        X
01   03  73
02   02  94
03   01  56
04   10  00
05   11  00
06   00  00   -
07   10  00   -
08   40  00
09   50  00
10   00  00
    0032
```

Tax Status
0: Non-taxable
1: Taxable 1
2: Taxable 2
3: Taxable 1 & 2

Department LC

Negative Status Symbol

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

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

Thank you
Call again

03-11-89
23001

PLU Code ┄┄┄┄┐   ┌┄┄┄ Linked Dept Code
         ▼   X
0 0 5 ᵈ 0 4
       ★ 0 7 5   @ ┄┄ Preset Price
0 1 0 ᵈ 0 2   (Blank : Open PLU)
       ★ 2 0 0   @
0 1 1 ᵈ 0 1
       ★ 3 0 0   @
       0 0 3 3

Thank you
Call again

03-11-89
23001

        X
                  8 5 ┄┄ All Depts Common LC
  1 0   % + ┄┄ Percent Charge
    5   % -   Preset Rate
[1 ★
                         Percent Discount
     5   Preset Rate
  3 7 2 9
  0 0 3 8

Foreign Currency 1
Exchange Rate

- 71 -
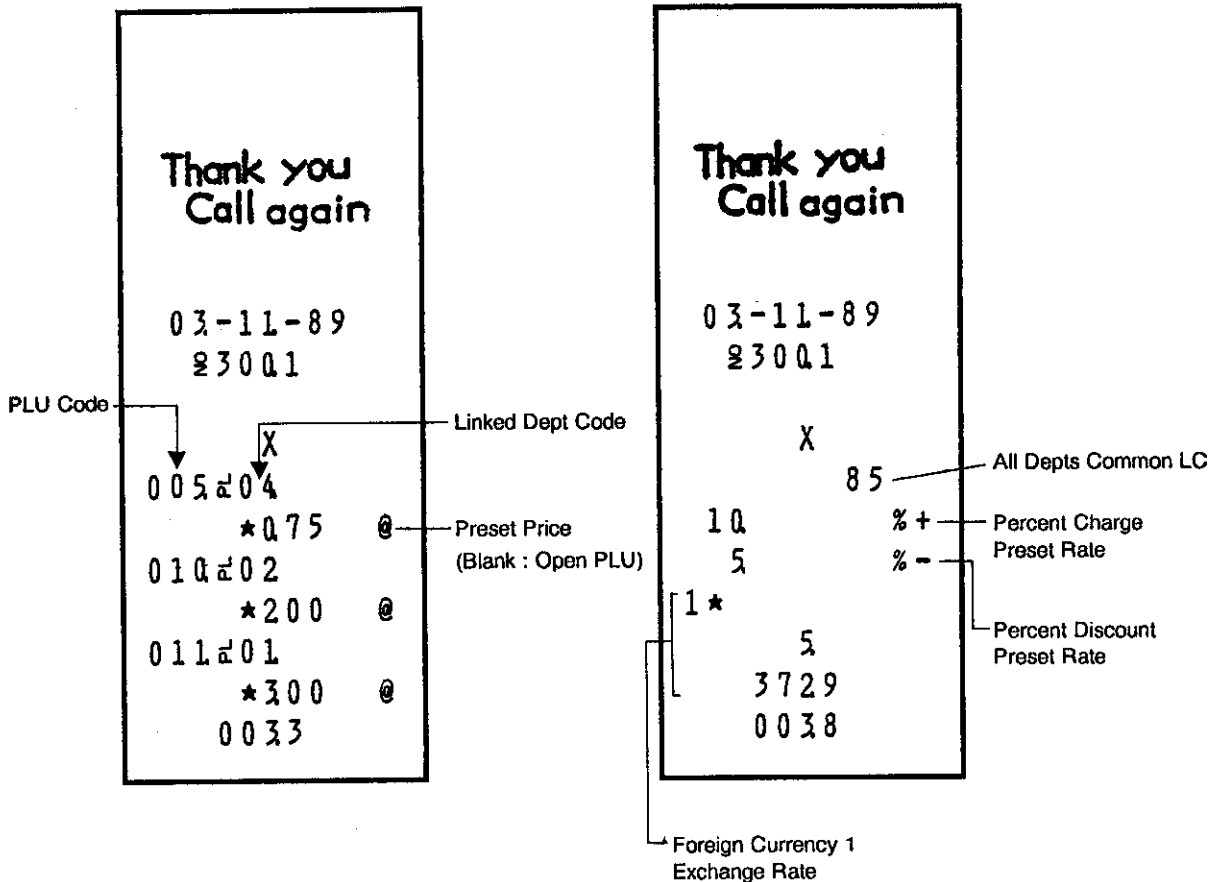
USER SYSTEM OPTION READ
(Mode Lock : **X**, 5 [**ST**])

```
Thank you
  Call again


 0 3 - 1 1 - 8 9
    2 3 0 0 1


        X
0 1
            1 2
0 2
             0
0 3
             0
0 4
             0
0 5
             0
0 6
           2 3 4
0 7
           1 6 7
0 8
            2 3
0 9
           2 3 5
1 0
             0
1 1
             0
1 2
             0
1 3
             0
      0 0 3 5
```

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

TAX CALCURATION TEST (Mode Locck : X)

⊣ <u>Enter any amount</u> ⊢ ⎯⎯⎯⎯⎯⟶ Depress [TXBL TL] (or [TX1/M])

The entered amount is
displayed.

The tax amount is
displayed.
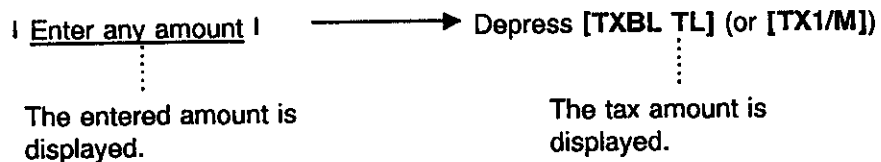
12. PAPER ROLL REPLACEMENT AND OTHER MAINTENANCE OPERATIONS

Journal Winding Reel
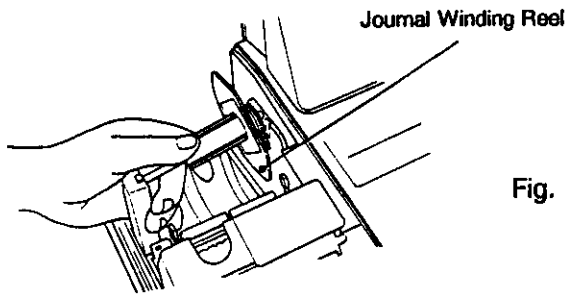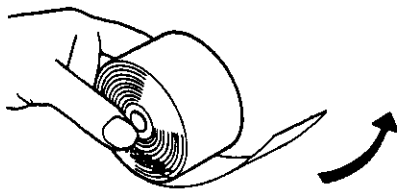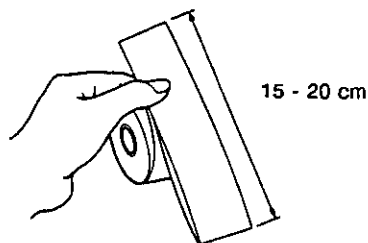
Fig. 1

Fig. 2

15 - 20 cm   Fig. 3
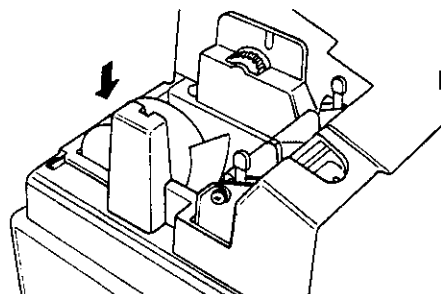
Fig. 4

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
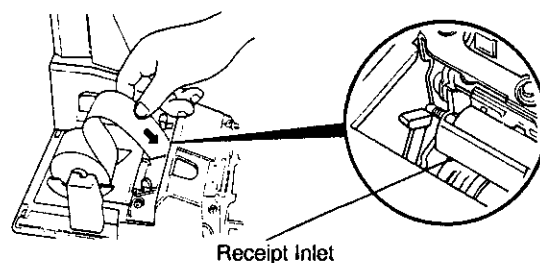
Receipt Inlet

Fig. 6
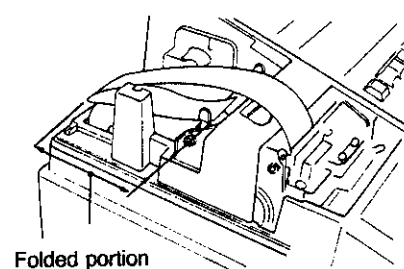
Folded portion
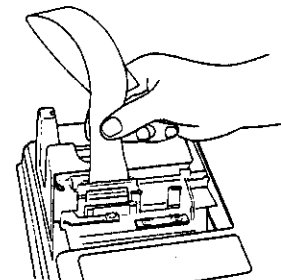
Cut the paper with the edge.

Free Lever

Fig. 7

Fig. 8

Fig. 9

Journal Inlet

Fig. 10

Fig. 11

Fig. 12
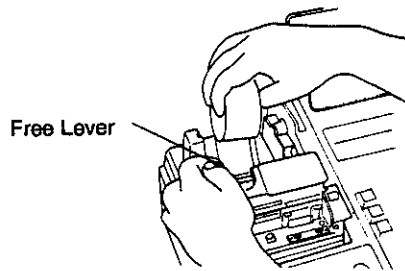
REMOVING THE RECEIPT PAPER

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)
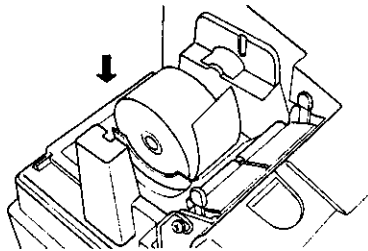
INSTALLING THE JOURNAL PAPER

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.
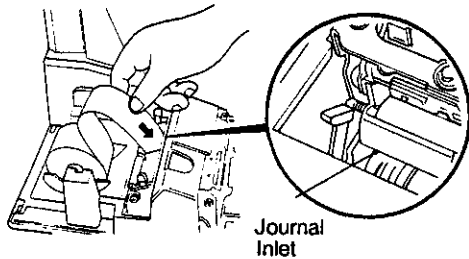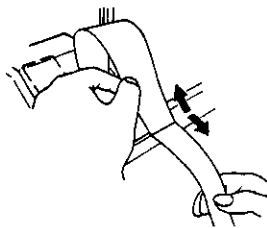
REMOVING THE JOURNAL PAPER

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.
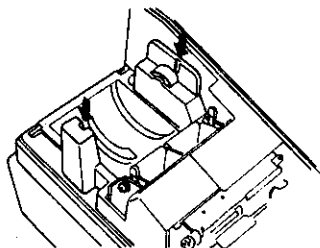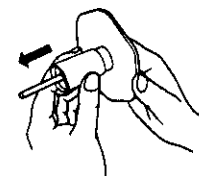
Fig. 13

REPLACING THE INK ROLL

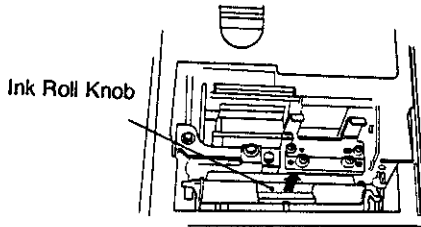When the receipt and journal print becomes too light to read, replace the Ink Roll in the following manner.
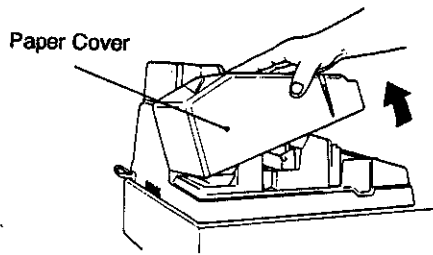
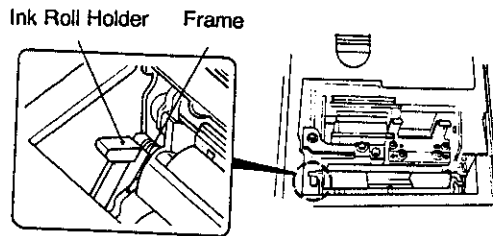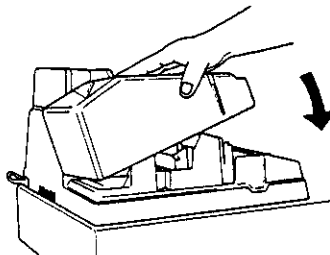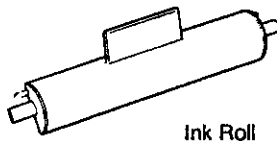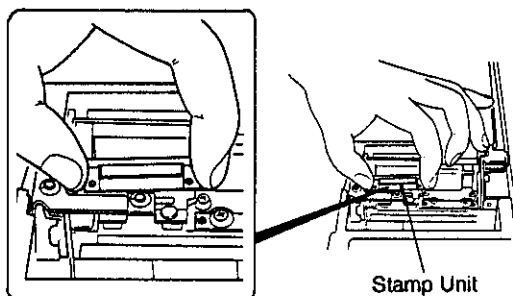1. Turn the Mode Lock to the "OFF" position.

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 comsumable 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.
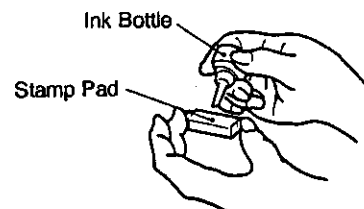
Paper Cover

Fig. 1

Ink Roll Knob

Fig. 2

Ink Roll Holder   Frame

Fig. 3

Fig. 4

Fig. 5

Ink Roll

Fig. 6

Stamp Unit

Fig. 7

Ink Bottle
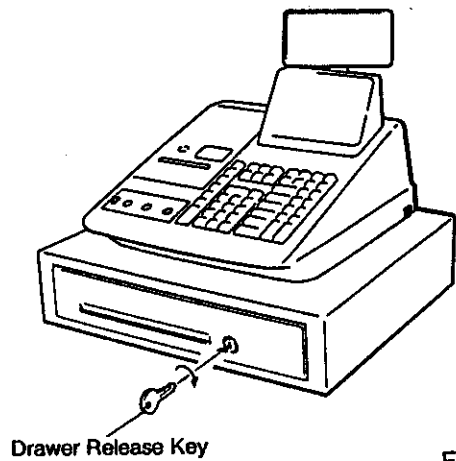
Stamp Pad

Drawer Release Key

Fig. 1

Fig. 2

Fig. 3

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.
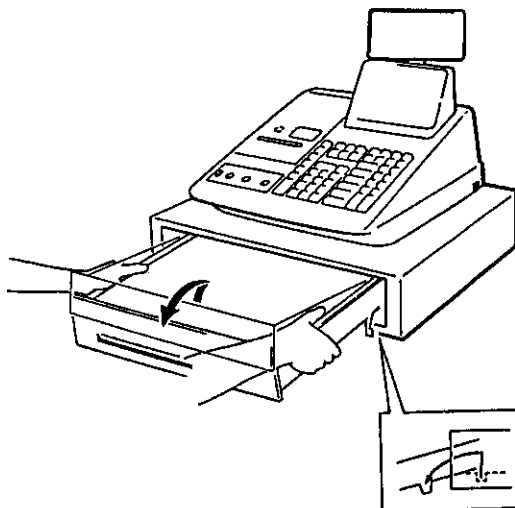
REMOVING THE DRAWER

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).

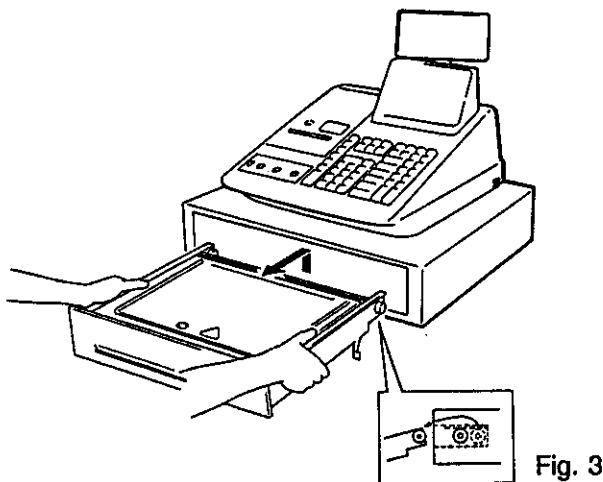2. When returning to drawer, follow the reverse procedure to removing.

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

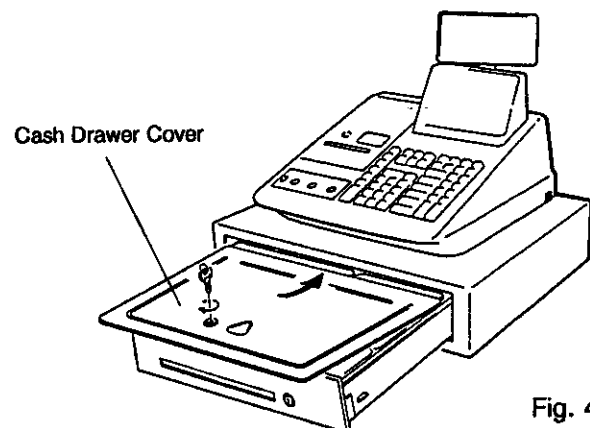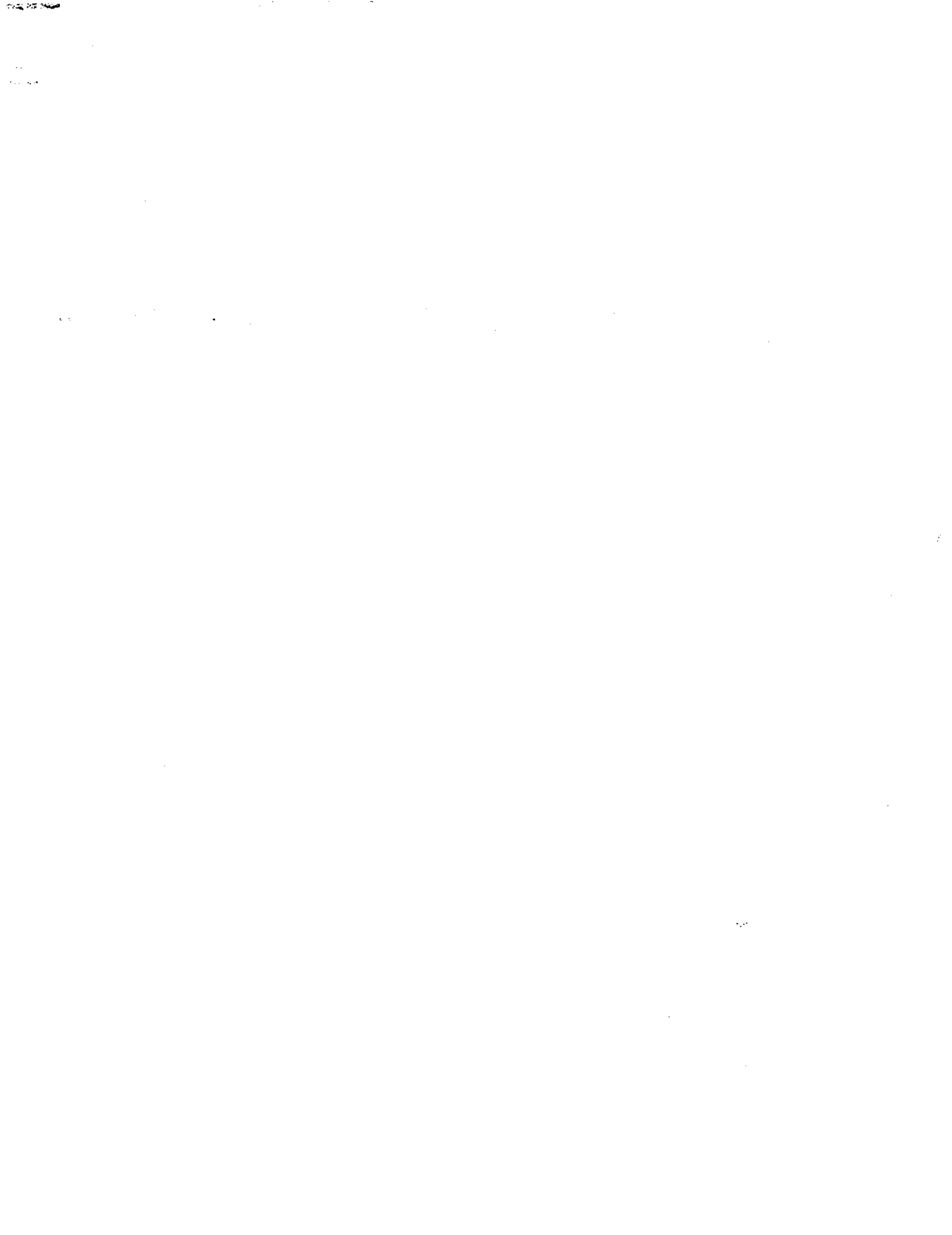Release the lock by the key, and lift the front end of the cover.

Cash Drawer Cover

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

TEC

TOKYO ELECTRIC CO., LTD.