Owners Manual

TEC ELECTRONIC CASH REGISTER

MA-141-100 SERIES

TEC 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 instructions 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 cause the user at his own expense will required to take whatever measures may be required to correct the interference.

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MA-141-100 SERIES

OWNERS MANUAL

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TO OUR CUSTOMERS

Thank you for choosing a TEC electronic cash register MA-141-100 series. This instruction manual provides a description of the functions and handling of this register and should be read carefully to obtain maximum performance. Since every consideration has been given to safety, there is no danger of damaging the machine by incorrect operation.

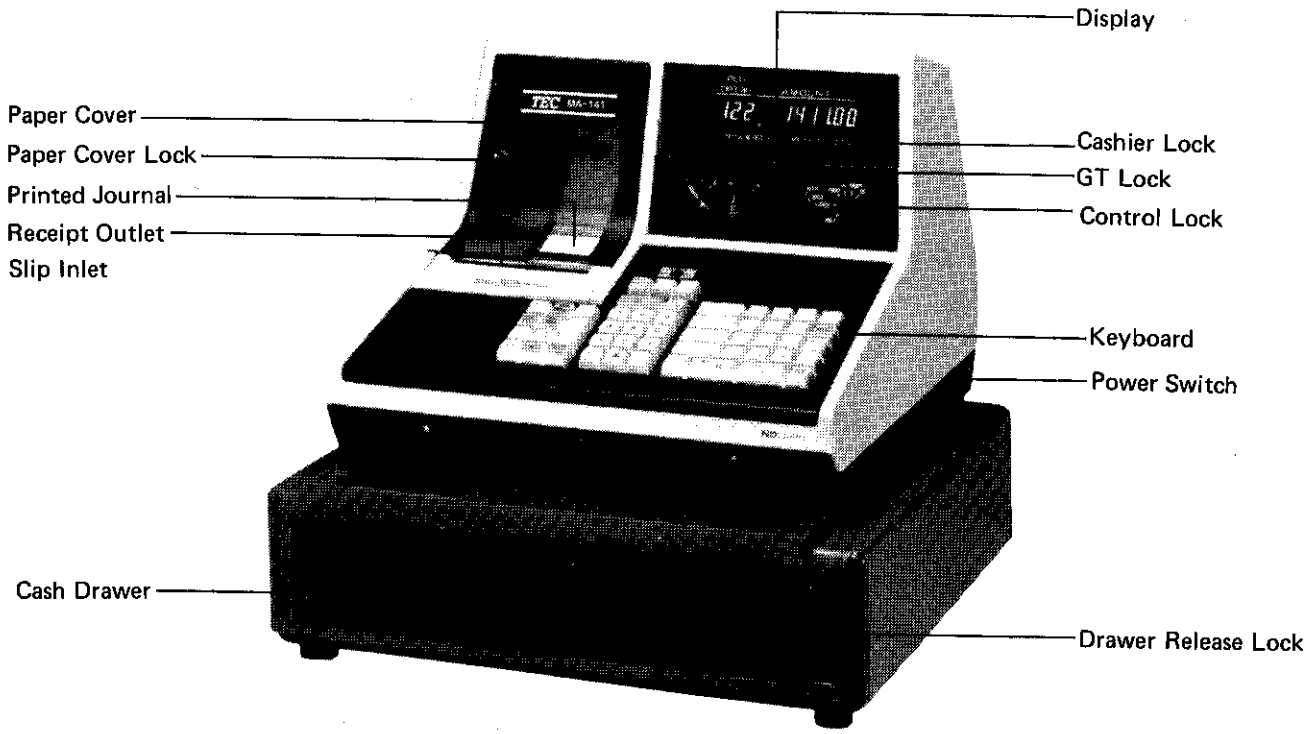
Please refer to this manual whenever you have any doubts concerning the machine. This machine has been manufactured under strict quality control and should give you full satisfaction. However, if the machine is damaged during transit, or there are any unclear points in this manual, please contact your TEC representative listed in this booklet.

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

PRECAUTIONS

1. The keys on the keyboard work with a light touch. Avoid pressing the keys too hard.
2. Avoid handling the machine with wet hands.
3. Do not apply thinner or other volatile oils to the cabinet or other plastic parts. If the dirt is very bad, wipe off with a piece of cloth soaked in neutral detergent and squeezed tightly.

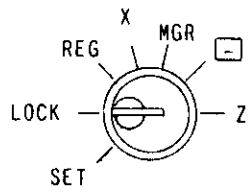
APPEARANCE AND NOMENCLATURE



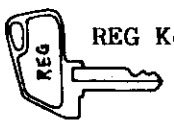
- **Power Switch** ... The power switch is provided at the righthand side of the cabinet. The AC power is turned on when the switch is pushed to ON, and turned off when the switch is pushed to OFF.

CONTROL LOCKS AND MODE SELECTOR KEYS

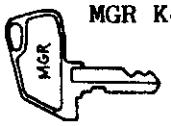
Mode Lock



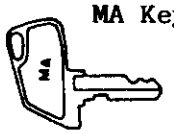
(POSITION)	(FUNCTION)
LOCK	The register operations are locked when the Mode Lock is set to this position. Displays the current time.
REG	Normal cash register operations are carried out in this mode. However, the operations using the keys that have been programmed to require the "MGR" position cannot be done in this mode.
X	The sale totals 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 using the keys that have been programmed to reguire the "MGR" position.
[-]	This is the "Negative Mode", which automatically process all the entries in the reverse way, i.e., positive items into negative, and the negative items into positive.
Z	All the resettable totals and their respective counters will be read and reset in this position.
SET	In this position, the register will allow programming operations.



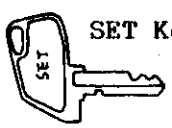
REG Key The REG Key is used by the cashier who operates the register. This key can access the positions of LOCK and REG.



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 LOCK, REG, X, and MGR.

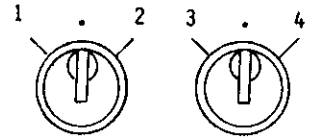


MA Key The MA Key is used by the store manager who will daily supervise the collection of money and the printout of transactions recorded by the register. This key can access the positions of LOCK, REG, X, MGR, [-], and Z.



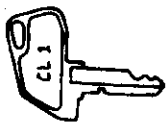
SET Key The SET Key is used by the programmer. This key can access the positions of LOCK and SET.

Clerk Locks



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

CLERK KEYS (CL 1, CL 2, CL 3, CL 4)

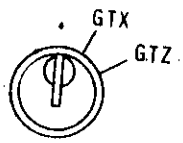


Each clerk should keep his/her clerk key. The register will not operate unless one of these keys is inserted and set to the corresponding position on the Clerk Locks. Each of the keys may be inserted and pulled out in the neutral position marked with the "." (point).

NOTES: 1. The push-style Clerk Keys may be installed in place of the Clerk Locks.

2. The Clerk Locks or push-style Clerk Keys may be used as Major Group Keys if so programmed in the system option.

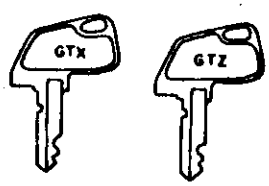
GT Lock



This lock is provided to read or reset the accumulated sales totals not on the daily but on weekly or monthly basis.

GTX Position:

This posititon allows to read the accumulated totals. The GTX Key and GTZ Key can access this position.



GTZ Position:

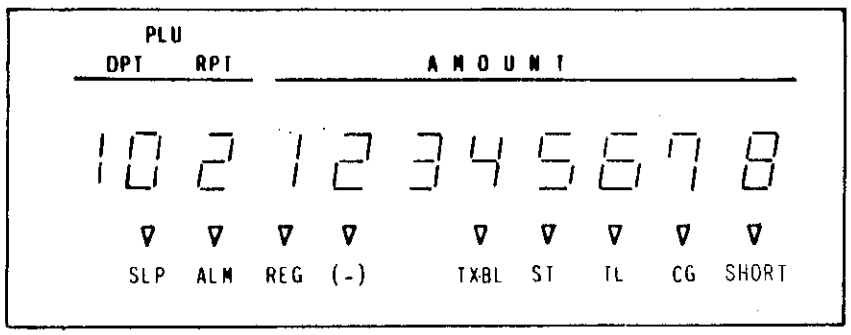
This position allows to read and reset the accumulated totals.
The GTZ Key can access this position.

NOTE: When the GT Lock is turned to either the GTX or GTZ position, the Mode Lock position and any Clerk Key ON/OFF condition will be disregarded.

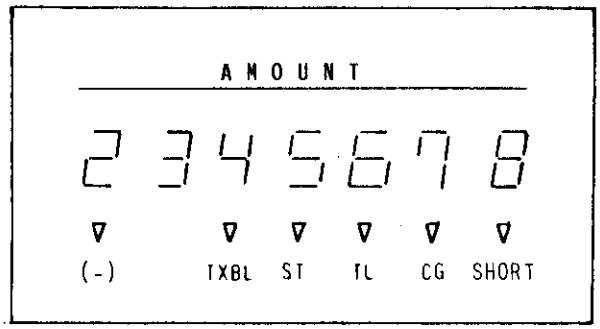
DISPLAY

The front display is located at the top of the register just above the keyboard. The display has two types of display -- numeric display and message descriptors.

Front Display



Rear or Remote Display



Numeric Display

AMOUNT (8 digits) — Displays the numeric data, such as amount, quantity, etc.

DPT (2 digits) — Dispalys the code which represents each Department Key. It stays lit when repeating the same department entry.

RPT (1 digit) — Displays the repeat department entry count.

PLU (3 digits, commonly used with the DPT and RPT digits)

Displays the PLU code when any PLU is entered. It goes out when repeating the same PLU entry.

Message Descriptors

SLIP — Lights up when a slip has been properly inserted to allow validation.
It flashes to require a slip insertion when validation compulsion is programmed on a transaction key.

ALM — Lights up with the alarm buzzer to indicate that the last operation or numeric entry has resulted in an error. To clear the erroneous condition, depress the [C] key.

REG — Lights up when sale items have been entered into a department.

(-) — Lights up when the [RTN MDSE], [DOLL DISC], [%-], or [IC/VD] key has been operated.
It also lights up when the [ST] 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 department or PLU is entered.
It also lights up with the 'ST' Lamp when the [TXBL TL] key is depressed.

ST — Lights up when the sub-total amount is displayed after the [ST] key has been depressed.

TL — Lights up on a finalizing operation with the total amount displayed when 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.

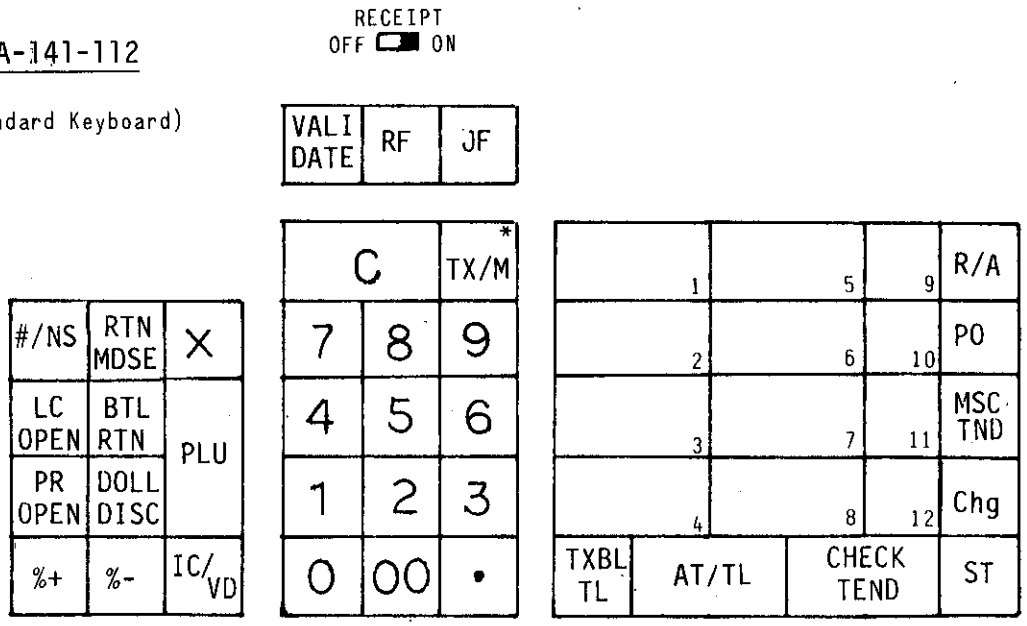
KEYBOARD LAYOUT

The following is a typical keyboard layout for the MA-141-100 series. Since this series is designed to be capable of programming most of the keys to be located in the desired position on the keyboard, it is merely an example. Please consult your TEC representative if any other alternative or additional keys must be installed, referring to the description of the "FUNCTION OF EACH KEY" and "OTHER OPTIONAL KEYS" on the following pages.

TYPICAL KEYBOARD LAYOUTS

MA-141-112

(Standard Keyboard)



*NOTE: The [TX/M] key is replaced by [TX1/M] and [TX2/M] in a dual-tax area.

FUNCTION OF EACH KEY

RECEIPT
OFF [▮ ON **Receipt ON/OFF Switch**

This switch has two positions available -- 'OFF' position and 'ON' poisition. When in the 'OFF' position, no receipt is issued from the register and sales are printed on the audit roll only. When the switch is turned to the 'ON' position, sales are printed on both the receipt roll and audit roll, then a receipt is issued which is torn off and given to the customer.

[C] **Clear Key**

This key is used to correct a numeric entry error prior to depressing any other key or to correct any error condition and cancel the alarm buzzer.

If the [C] key is depressed after a sub-total is obtained, the sub-total is displayed.

[VALIDATE] **Validation Key**

This key is used to over print a validation slip.

To operate, after registering an item or finalizing a sale, insert a slip into the validation slot and depress the [VALIDATE] key. The item, the amount, and the date and/or consecutive number will be printed on one line on the slip.

The system option provides program selections as to the printing position, single- or multi-validation, validation compulsion on some transaction keys, etc.

If the SLIP Lamp flashes, it means that validation compulsion is programmed for the last item entered. In this case, insert a slip into the validation slot and depress the [VALIDATE] key; no other operation is allowed until the compulsory validation has been done.

[RF] **Receipt Feed Key**

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.

[JF] **Journal Feed Key**

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

[PR OPEN] **Preset Open Key**

This key is used to modify the status of preset department keys. When the [PR OPEN] key is depressed prior to depressing a preset department key (either before or after the numeric entry), the preset

department key is reversed to non-preset and allows amount entry through the numeric keyboard.

If a preset department is entered with a price through the numeric keybaord using the [PR OPEN] key, no repeat operation is then possible for that department key.

The [PR OPEN] key cannot be used with the [PLU] key.

[LC OPEN] Listing Capacity Open Key

This key is used to release the listing capacity on each Department or finalizing key. To operate, depress the [LC OPEN] key before depressing the department or fianalizing key (either before or after the numeric entry).

By depressing the [LC OPEN] key, the HALC (High Amount Listing Capacity) will be released to allow a numeric entry with two further digits, and the LALC (Low Amount Listing Capacity) will be 1-digit less than the programmed value, as to the department keys. As for the finalizing keys, the HALC will be extended to allow one further digit.

In order to allow a numeric entry outside the values defined above, the Mode Lock must be turned to the 'MGR' position using the MA or MGR Key.

Repeat operation will be possible on any department key even when the [LC OPEN] key is depressed before the department key.

[R/A] Received on Account Key

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

To operate, enter an amount of payment and then depress the [R/A] key. Repeat this operation if multiple payments are entered at a time. The payments entered are usually finalized by the [AT/TL] (if paid in cash), [CHK TND] (if paid in check), or [MSC TEND] (if paid in misc. media). The [Chg] key may function to finalize payments received on account if so programmed in the system option. The above operation can only be done when the register is outside a sale.

The [IC/VD] key is effective to delete a payemnt just recorded with the depression of the [R/A] key, if before finalized by a media key.

[PO] Paid Out Key

A paid out transaction is used when an amount of money is removed from the cash drawer without relating to a sale. When the [PO] key is used, the amount entered is subtracted from the "Cash-in-drawer" total but does not affect the sales totals.

To operate, enter an amount taken from the cash drawer and depress the [PO] key whilst the register is in an out-of-sale condition. This operation may be carried out as many times as required if multiple paid-out items are registered at a time. The paid-out amounts recorded are finalized by the [AT/TL] key only.

[RTN MDSE] Returned Merchandise Key

This is the Returned Merchandise Key which is used for refunding money to a customer who has returned goods to the store.

To operate, depress the [RTN MDSE] key either before or after ringing up the amount to be refunded, and then depress the appropriate department key (the department key may be replaced by a PLU code and the [PLU] key combination). The amount is automatically printed and deducted from the bill.

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

[X] Quantity Extension Key

This key is used to multiply a department or PLU item entry by a quantity.

The basic order of multiplication is:

|QUANTITY| → [X] → |PRICE|

As for details of multiplication for various cases, refer to the "REGISTERING PROCEDURE FOR SALES".

The quantity can be of maximum 3 integral digits and 3 digits below the decimal point. The price can be of maximum 6 digits. The product must not exceed 7 digits.

Usually, the fraction below the least effective digit will be rounded off. However, it may be programmed to be discarded or rounded up by the system option.

[#/NS] Non-add Number Print / No-sale Key

This is a dual-function key.

NON-ADD NUMBER PRINT FUNCTION

This key is used, when the Mode Lock is in the REG or [-] position, to print a non-adding number (such as Customer No., Check No., Credit Card No., etc.) on the receipt and journal for future reference. To operate, enter a maximum of 8-digit number and then depress the [#/NS] key. The number is then printed. This operation may be done any time between items, before or after all the sale items, if the sale has not been finalized yet. Usually, non-add numbers may be entered as many times as required within a sale. However, it is programmable to prohibit more than one number entry within a sale.

NO-SALE FUNCTION

This key is used, when the Mode Lock is in the REG position, to open the cash drawer while the machine is outside a sale. To operate, depress this key once. A non-add number may usually be entered prior to a no-sale operation. However, it can be programmed to prohibit a non-add number when a no-sale is operated.

[0] ~ [9], [00] **Numeric keys**

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

Depressing the [00] key once is the same as depressing the [0] key twice consecutively.

[.] **Decimal Point Key**

This key is used, as part of numeric keys, to designate the position of the decimal point when entering a percent rate or a quantity. For example, to enter 0.5%, index 0→[.]→5, or [.]→5.

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.

[1] ~ [12] (MA-141-112) **Department Keys**

These are department keys through which sales items are registered. These keys may be programmed as either 'PRESET' keys or 'OPEN' keys.

OPEN DEPARTMENT KEY

A department key which has no preset price programmed is an 'OPEN' key and must have a price entered into it 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 audit rolls.

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

To enter a price extended by multiplication, enter the quantity first, depress the [X] key, enter the price, and then depress the appropriate department key. A multiplication entry may not be repeated by depressing the department key again.

PRESET DEPARTMENT KEY

A preset key is a key which has already 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.

To repeat the same preset item, depress the department key as many times as desired.

To multiply a preset department price by a quantity, enter the quantity first, depress the [X] key (the [X] key may be omitted if the preceding quantity is a one-digit value), and then depress the preset department key.

If a non-preset price must be entered on the keyboard into a preset department, depress the [PR OPEN] key either before or after the price entry, prior to the [DEPT] key depression.

Each department key can be programmed with a unit price, either positive or negative use, a HALC (High Amount Listing Capacity), a LALC (Low Amount Listing Capacity), and tax status.

When a department is programmed as a negative department, a price entry may not be repeated by depressing the department key again. Neither may a price entry be repeated when the [RTN MDSE] or [PR OPEN] key has bee depressed prior to any department key depression.

[IC/VD] Item Correct / Void Key

This is a dual-function key.

ITEM CORRECT FUNCTION

Depressing this key once will remove the last item from the bill, printing a line through that item on the receipt and journal.

The item correct function is effective even when a numeric entry and a [C] key depression are done between the department entry to be corrected and the [IC/VD] key depression. However, if any other key-in operation including an error cleared by the [C] key comes in between them, the [IC/VD] cannot function to correct the last line item.

The [IC/VD] key may function to correct any last line item entered through a department, [PLU], [%+], [%-], [R/A], [PO], [TAX], or [DOLL DISC] key.

VOID FUNCTION

The [IC/VD] key is also used to void an item entered previously within a sale.

To operate, depress the [IC/VD] key before or after entering the amount to be deleted, and then depress the appropriate department or "PLU code and [PLU] key" combination.

To void a preset department item previously entered within a sale, enter the quantity ("1" for a single item), depress the [X] key (the [X] key may be omitted if the quantity is one-digit), and then depress the appropriate preset department key. If the quantity is not entered prior to the [IC/VD] key depression, it will function as the "ITEM CORRECT" key described above and result in deleting the last item entered.

The [IC/VD] key may function to void any previous items through a positive department, [PLU] (with a positive PLU), combination of "positive department plus [%+] or [%-]" or "positive PLU plus [%+] or [%-]".

[PLU] Price-Look-Up Key

This key is used to enter a PLU that is linked to a department.

TO ENTER THE PRICE THROUGH A PLU:

|PLU CODE|→[PLU]

The preset price will automatically be read and entered.
To repeat the same PLU price, depress the [PLU] key only, after the above operation.

As for quantity extension involving PLUs, refer to the "REGISTERING PROCEDURE FOR SALES".

Each PLU is programmed with a 3-digit PLU Code, a 2-digit link department code, and a maximum 6-digit preset price. Each PLU is also programmed with the taxable/non-taxable status.

To modify the link department, to modify the status, to delete PLUs, or to re-program the entire PLU table, the entire PLUs sales totals must be reset beforehand. However, additional PLU programming and preset price changes of individual PLUs may be carried out anytime if the register is outside a sale. But please not that if a unit price of any PLU is changed between sales (but not after resetting), the accurate data of the PLU total may not be printed in the X and Z reports due to the change.

[%+] Percent Charge Key

This key is used to add a percentage rate to a sale. If the pre-programmed percentage rate is to be added, depress the [%+] key without a prior numeric entry. If a rate different from the pre-programmed % rate is to be added, enter the desired rate on the numeric keyboard and then depress the [%+] key. (The manual rate will take priority.)

To operate, depress the [%+] key either immeidately after a department entry if only that item requires the percentage addition, or after the [ST] key has been depressed if required on the total bill. The percentage rate and the amount are printed and will be added to the sales total.

The percentage rate may be within the range from 0.001 to 99.999%. The fraction resulted from the percentage calculation is usually programmed to be rounded off. However, it can be programmed to be rounded up or discarded.

Usually, if the [%+] key is depressed after a second [ST] key depression within a sale, it adds the rate to the sale total of the items entered between the first and the second [ST] key depressions. However, it can be programmed to add the rate to the entire sale by the system option.

[%-] 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.

[DOLL DISC] Dollar Discount Key

This key is used to subtract an amount from the sale total such as a discount during a sale. This key cannot normally be used outside a sale. An amount exceeding the sales total cannot normally be entered. However, when the "Credit Balance" option has been selected, this key can be used inside or outside the sale and over-subtraction of the sale total is allowed.

To operate, enter the discount amount on the numeric keyboard, and then depress the [DOLL DISC] key.

[ST] Sub-total Key

This key is used to obtain the sub-total amount during a sale. When this key is depressed after all the items have been rung up, the sub-total 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 sub-total; further depressions will only display but not print the sub-total amount.

The system option provides the selection not to print but only display the sub-total on the depression of the [ST] key.

In charge posting, a depression of the [ST] key displays the amount without tax and without previous balance.

[AT/TL] Amount Tendered / Cash Total Key

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

AMOUNT TENDERED FUNCTION

After the [TXBL TL] key has been 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 still 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 depress another media key if the balance due is processed as a sale in that media.

TOTAL KEY 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.

NOTES: 1. If the [AT/TL] key has been programmed to function as the "AMOUNT TENDERED" key only and the sale total is "0" or negative, no amount tendering can be entered. In this case, the [AT/TL] key will function as the "TOTAL KEY", so just depress the [AT/TL] to obtain the total and finalize the sale.

2. If the "TXBL TL Compulsory" option has been selected in the system option, the [TXBL TL] key depressions for obtaining the sale total is required before finalizing any sale.

3. If the "TOTAL VALIDATION COMPULSORY" option has been selected in the system option, each sale can only be finalized after operating the total validation.

The [AT/TL] key is also used to finalize received on account payment entries or paid out amounts.

The [AT/TL] key can be programmed with the HALC (High Amount Listing Capacity) of the amount tendered. If the HALC has been set, the amount tendered must not exceed the programmed value; otherwise, it will result in an error. If the [LC OPEN] key is used prior to the [AT/TL] key depression, the HALC will be extended by one additional digit. If an amount still grreater must be tendered, the MA or MGR Key is required to turn the Mode Lock to the MGR position.

[CHK TND] or [CHECK TEND] Check Tendered Key

This key is used to cash a check when the register is outside a sale, or to finalize the transaction as a check payment.

CHECK CASHING

When the register is outside a sale, enter the check amount and depress the [CHK TND] key. A receipt is issued and the drawer is opened to enable the exchange.

Check cashing may be prohibited if so programmed in the system option.

FINALIZING AS CHECK PAYMENT

On finalizing a sale, enter the amount of the check given by the customer and depress the [CHK TND] key. If the amount received is greater than the sale total, the receipt is issued with the change due printed and displayed. Then the change is given to the customer in cash. (The "Check Over-tendering Prohibited" option can be selected in the system option, if necessary. In this case, an amount equal to or less than the sale total may be tendered.) If the amount received is smaller than the sale total, the shortage is displayed, and the customer may pay the additional amount in cash to finalize the sale by depressing the [AT/TL] key.

The [CHK TND] key is also used to finalize received on account payment entries if paid in check.

As for the HALC of the check tendered, the description will be the same as the HALC of the amount tendered for the [AT/TL] key.

Also refer to the [AT/TL] key description as to other functions and related programmabilities, except the [CHK TND] key is usually programmed to function as the "Tendered" key only.

[Chg] Charge Total Key

This key is used as an alternative method of payment for charge sales. To operate, depress the [Chg] key, instead the [AT/TL], to obtain the total and finalize the sale.

As for other functions and programmabilities, see the [AT/TL] key description, except that the [Chg] key is usually programmed as a "Total" key only but not as a "Tender" key.

[MSC TND] Miscellaneous Tendered Key

This key is provided to tender and finalize a sale in miscellaneous media, which cannot be processed by any other media key. It has the same functions and programmabilities as the [CHK TND] key.

[BTL RTN] Bottle Return Key

This is a credit key to enter a bottle return amount. This key can be programmed as either a motorized or non-motorized key, but must be used inside a sale in either way.

WHEN PROGRAMMED AS MOTORIZED KEY

To operate, enter the bottle return amount and then depress the [BTL RTN] key.

The amount entered through the [BTL RTN] key must not exceed the taxable item total if the [BTL RTN] key has been programmed taxable, unless the "Credit Balance" option is selected.

The [BTL RTN] can be programmed with its own tax status, which can be modified by the [TX/M] key when necessary.

WHEN PROGRAMMED AS NON-MOTORIZED KEY

To operate, depress the [BTL RTN] key before the **bottle** return amount entry, and then depress the appropriate department key.

The tax status of the [BTL RTN] key follows that of the department through which the amount is entered.

The amount entered with [BTL RTN] key will subtract the department total but will not affect the department counter.

No PLU entry is possible using the [BTL RTN] key.

The [IC/VD] key is effective to delete the last amount entered through or declared by the [BTL RTN] key.

Quantity extension using the [BTL RTN] key is possible, but split pricing is not.

The [BTL RTN] key can be programmed with its own listing capacity. To release this listing capacity, the Mode Lock must be turned to the MGR position.

The amount entered using the [BTL RTN] key must not exceed the sale total unless the "Credit Balance" option is selected.

[TX/M] (or [TX1/M], [TX2/M] for Dual-tax Area) Tax Modifier Key

This key is used to reverse the taxable/non-taxable status on departments and other tax-programmable keys for one entry only. For dual-tax areas, two keys should be provided -- [TX1/M] and [TX2/M] -- in place of the [TX/M] key. The two tax modifier keys will function independently each with its own tax table pre-programmed for taxable items.

The tax modifier key(s) will be effective to reverse the tax status programmed on Department keys, [DOLL DISC], [%+], [%-], [VND CPN], [BTL RTN], and PLUs.

To operate, depress the [TX/M] key prior to depressing any of these motorized keys above listed, i.e., either before or after the amount entry.

[TXBL TL] Taxable Total Key

This key is used to display the contents of the main itemizer plus any taxes due. The amount will display only but not be printed.

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

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

If the "TOTAL VALIDATION AFTER [TXBL TL]" is selected in the system option, depressing the [VALIDATE] key after a [TXBL TL] key operation prints the sale total on the validation slip, and therefore, only a finalizing operation is allowed.

OTHER OPTIONAL KEYS

The following keys are not shown in the KEYBOARD LAYOUT on page 5. However, any of them may be installed if the customer requires. But please note that some of the present keys may have to be dispensed with or additional memories may have to be installed to gain additional functions. Please contact your TEC reperesentative if any of the following keys is necessary.

[TAX] Manual Tax Key

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 tax amount entered is then printed. This tax amount is processed into the TAX 2 memory. Therefore, the tax amount automatically calculated and printed at finalizing the sale (TAX1) does not include a manual-entered tax, while the entire sale total printed on the receipt last line includes the manual-entered tax also.

This key is also used, if depressed without an amount entry within a sale, to display the total of only non-taxable items so far entered. Usually, this non-taxable items total is only displayed. However, it may be programmed to print it also.

RECEIPT ISSUE **Receipt Issue Key**

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

To operate, depress the RECEIPT ISSUE key without numeric entry. The receipt for the last sale is then issued. This key will not function if another sale has already been under way.

OPEN **LC/PR Open Key**

This is a key provided with both LC OPEN and PR OPEN key functions. Depressing this key once enables to release the preset-price and the listing capacity of department at a time.

**(or #/CID)** **Non-add Number Print Key**

This key has only the function of non-add number printing. The function is the same as stated in the "NON-ADD NUMBER PRINT FUNCTION" of the #/NS key description.

NS **No-sale Key**

This key has only the no-sale function. The fucntion is the same as stated in the "NO-SALE FUNCTION" in the #/NS key.

ITEM CORR **Item Correct Key**

This is used as the "ITEM CORR" key only. The function is the same as stated in the "ITEM CORRECT FUNCTION" of the IC/VD key description.

VOID **Void Key**

This key is used as the "VOID KEY" only. The function is the same as stated in the "VOID FUNCTION" of the IC/VD key description.

Additional Department Keys

Additional PLUs

REGISTERING PROCEDURE FOR SALES

Here are patterns for actual registering operations. In the following examples, "[ ]" indicates an input through numeric keys, "[ ]" indicates a depression of the transaction key, and "---" indicates other registering and/or totalling operations.

NO-SALE (Mode Lock: REG)

[NS] (or [#/NS])

DEPARTMENT ENTRY (Mode Lock: REG or [-])

|PRICE| → [OPEN DEPT] → ---

[PRESET DEPT] → ---

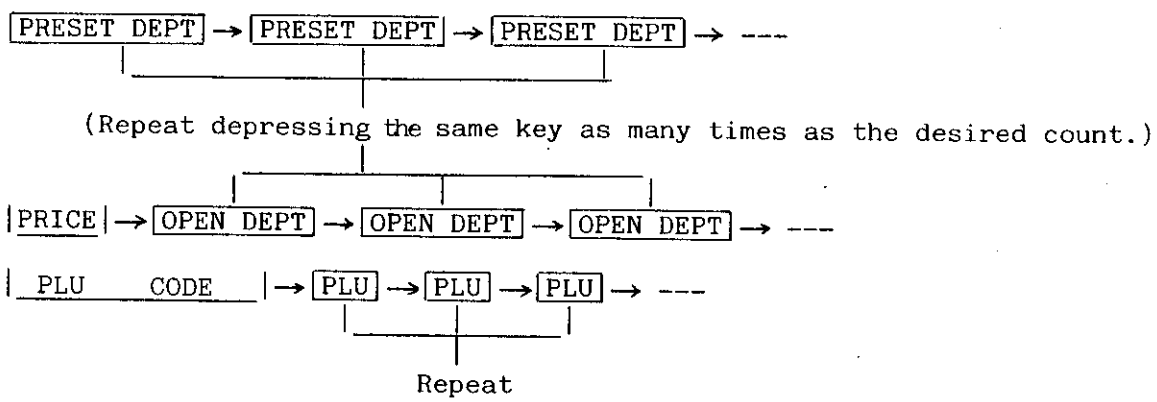
[PR OPEN] → |PRICE| → [PRESET DEPT] → ---

NOTE: When a price to override the listing capacity is entered, the [LC OPEN] key may be depressed either before or after the price entry but before the department key depression. In this case, a price two-digit larger or 1-digit smaller may be entered for one entry only. To allow a price even larger or smaller than this, the MA or MGR key is required and set to the MGR position of the Mode Lock.

PLU ENTRY (Mode Lock: REG or [-])

|PLU CODE| → [PLU] → ---

REPEAT ENTRY (Mode Lock: REG or [-])



NOTES: 1. Repeat entry is not possible when the [PR OPEN], [RTN MDSE], or [IC/VD] (when used as "VOID" key) has been depressed prior to a [DEPT] or the [PLU] key.
2. The [LC OPEN] key is effective on repeat operation.

QUANTITY EXTENSION (Mode Lock: REG or [−])

|QUANTITY| → [X] → [PRESET DEPT] → ---
└─(May be omitted if the quantity is one-digit.)

[PR OPEN] → |QUANTITY| → [X] → |PRICE| → [PRESET DEPT] → ---

|QUANTITY| → [X] → |PRICE| → [OPEN DEPT] → ---

|QUANTITY| → [X] → | PLU CODE | → [PLU] → ---

NOTE: The QUANTITY may be max. 3-digit integral and 3-digit below the decimal point. (Use the [.] (point) key for a quantity including the decimal point.) The PRICE may be max. 6-digit. The product must not exceed 8 digits for a department and 7 digits for a PLU entry.

BOTTLE RETURN (motorized [BTL RTN] key) (Mode Lock: REG or [−]; or MGR if so programmed)

DEPT or PLU entries → |BOTTLE RETURN AMOUNT| → [BTL RTN] → ---

NOTES: 1. The BOTTLE REURN AMOUNT must not exceed the sub-total, or if [BTL RTN] key is programmed to be taxable, must not exceed the taxable item total, unless the "Credit Balance" option is selected.
2. The tax modifier(s) may be operated if necessary.

BOTTLE RETURN (non-motorized [BTL RTN] key) (Mode Lock: REG or [−]; or MGR if so programmed)

[BTL RTN] → [PRESET DEPT] → ---

[BTL RTN] → |BOTTLE RETURN AMOUNT| → [OPEN DEPT] → ---

NOTES: 1. Other declaration keys except [RTN MDSE] and [VOID] may function along with the [BTL RTN] key.
2. The tax modifier key(s) may be used to reverse each department status through which the bottle return amount is entered. The [BTL RTN] key itself does not have tax or SI status.
3. Quantity extension is possible.

RETURNED MERCHANDISE (Mode Lock: REG or [-]; or MGR if so programmed)

[RTN MDSE] → [PRESET DEPT] → ---

[RTN MDSE] → |PRICE| → [OPEN DEPT] → ---

[RTN MDSE] → [PR OPEN] → |PRICE| → [PRESET DEPT] → ---

[RTN MDSE] → | PLU CODE | → [PLU] → ---

DOLLAR DISCOUNT (Mode Lock: REG or [-]; or MGR if so programmed)

|DISCOUNT AMOUNT| → [DOLL DISC] → ---

NOTES: 1. The [TX/M] ([TX1/M] and/or [TX2/M]) key may be either before or after the DISCOUNT AMOUNT entry if the tax status of the [DOLL DISC] key is reversed.
2. Unless the "Credit Balance" option has been selected, no discount amount exceeding the sale total will be allowed. If dollar discounting is made on a taxable item, no amount exceeding the taxable item amount will be allowed.
3. Unless the "Credit Balance" option has been selected, no dollar discount operation outside a sale will be allowed.

PERCENT DISCOUNT (Mode Lock: REG or [-]; or MGR if so programmed)

(1) To discount from the sub-total:

[ST] → [%-] → --- ... to discount by the preset % rate

[ST] → |RATE| → [%-] → --- ... to discount by a manual rate

(2) To discount from an individual department item:

[DEPT] → [%-] → --- ... to discount by the preset % rate

[DEPT] → |RATE| → [%-] → --- ... to discount by a manual rate

NOTES: 1. The rate may be entered within the range up to 99.999%. If the rate contains the decimal point, use the [.] key.
2. The above [DEPT] keys may be replaced by a PLU entry.
3. The tax modifier may be used prior to the [%-] key if necessary.

PERCENT CHARGE (SPECIAL FEE ENTRY) (Mode Lock: REG or [-])

This operates the same as in the "PERCENT DISCOUNT" operations above, except that the [%+] is used instead of the [%-] key.

ITEM CORRECTION (LAST LINE VOIDING) (Mode Lock: REG or [-])

[PRESET DEPT] → [IC/VD] → ---

[PRICE] → [OPEN DEPT] → [IC/VD] → ---

[RTN MDSE] → [PR DEPT] → [IC/VD] → ---

[RTN MDSE] → [PRICE] → [OPEN DEPT] → [IC/VD] → ---

[PRESET PLU CODE] → [PLU] → [IC/VD] → ---

NOTES: 1. The [IC/VD] key depression will delete the last line item already printed within a sale.
2. The [IC/VD] key functions to delete the last line item, even if the [DEPT] keys in the above example are replaced by the [%+], [%-], [R/A], [PO], [DOLL DISC], [TAX], or [BTL RTN] (motorized key).

NON-ADD NUMBER PRINT (Mode Lock: REG or [-])

[NUMBER] → [#/NS] (or [#])
└(Check No., Customer No., Credit Card No., etc.)

NOTES: 1. If the "Non-add Number Print Allowed Only Once in a Sale" has been selected in the system option, a second non-add number entry will result in an error.
2. The [.] key cannot be used to enter a non-add number. Neither can any other key be used along with the [#/NS] to print a non-add number.

SUB-TOTAL (Mode Lock: REG or [-])

[DEPT] ... [DEPT] → [ST] → --- ... The sale total without tax so far is displayed and printed, but the sale is not finalized.

NOTES: 1. If the [C] key is depressed after once obtaining a sub-total, the sub-total amount will be displayed.
2. If the [ST] key is depressed more than once consecutively, the first depression only will print and display the sub-total; further depression will only display but not print the sub-total.

TAXABLE TOTAL (Mode Lock: REG or [-])

[DEPT] ... [DEPT] → [TXBL TL] ... The sale total with tax so far is displayed but not printed. The sale is not finalized.

NOTES: 1. If the [C] key is depressed after the [TXBL TL] has once been depressed, the sale total with tax is then displayed.

MANUAL TAX ENTRY (Mode Lock: REG or [-])

|TAX AMOUNT| → [TAX]

NON-TAXABLE ITEM TOTAL READ (Mode Lock: REG or [-])

[DEPT] ... [DEPT] → [TAX] → --- ... The total of the non-taxable item(s) so far entered within the sale is displayed. It is usually not printed, but programmable to print if required.

DESIGNATED VOID (Mode Lock: REG or [-]; or MGR if so programmed)

|1| → ([X]) → |IC/VD| → [PRESET DEPT] → ---

|PRICE TO BE VOIDED| → [IC/VD] → [OPEN DEPT] → ---

|PRICE TO BE VOIDED| → [IC/VD] → [OPEN DEPT]

→ |% CHARGE RATE TO BE VOIDED ALONG WITH THE DEPT PRICE| — [%+]

→ ---

|PLU CODE| → [IC/VD] → [PLU] →

(A [%+] or [%-] key operation may follow, just as in the above, if necessary.)

NOTES: 1. Designated voiding cannot be made on a department that has been preset as a negative department.
2. Unless the "Credit Balance" option has been selected, voiding to result the sale total into negative will go into an error.

RECEIVED ON ACCOUNT (Mode Lock: REG)

|AMOUNT OF PAYMENT| → [R/A] → [AT/TL] ... if paid in cash

→ (|AMOUNT|) → [CHK TND] ...if paid in check

→ (|AMOUNT|) → [MSC TND] if paid in misc. media

Repeat if multiple payments are entered.

NOTE: The [Chg] key may finalize payments received on account if so programmed in the system option.

PAID OUT (Mode Lock: REG; or MGR if so programmed)

|AMOUNT TO BE PAID OUT| → [PO] → [AT/TL]

Repeat if multiple amounts to be paid out are entered.

CASH TOTAL (Mode Lock: REG or [-])

[DEPT] ... [DEPT] → [AT/TL] ... The drawer opens, the sale total is dispalyed and printed, and a receipt is issued.

CASH TENDERING (Mode Lock: REG or [-])

[DEPT] ... [DEPT] → ([TXBL TL]) → | CASH TENDERED | → [AT/TL]

CHECK TENDERING (Mode Lock: REG or [-])

[DEPT] ... [DEPT] → ([TXBL TL]) → | AMOUNT OF CHECK TENDERED | → [CHK TND]

CHARGE TOTAL (Mode Lock: REG or [-])

[DEPT] ... [DEPT] → ([TXBL TL]) → [Chg]

MISC. TENDERING (Mode Lock: REG or [-])

[DEPT] ... [DEPT] → ([TXBL TL]) → | AMOUNT OF MISC.TENDERED | → [MSC TND]

NOTE: The above operations of CHECK, CHARGE, and MISC Keys are based on the standard programming. If any of those keys are programmed to be used the other way (i.e., Total key instead of Tender key or vice versa,)do the operation as shown in "CASH TOTAL" and "CASH TENDERING".

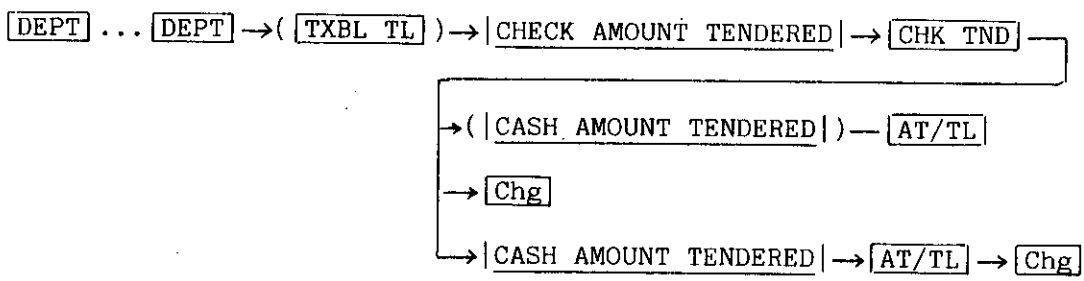
MULTI-TENDRING, SPLIT-TENDERING (Mode Lock: REG or [-])

MULTI-TENDERING (Short tendering repeated multiple times by the same media)

[DPET] ... [DEPT] → ([TXBL TL]) → | AMOUNT TENDERED | → [CHK TND]
→ | AMOUNT TENDERED | → [CHK TND]
→ | AMOUNT TENDERED | → [CHK TND]
→ | AMOUNT TENDERED | → [CHK TND]

The [CHK TND] key may be replaced by any other media key if it is programmed to allow tendering.

SPLIT-TENDERING (Short tendering repeated by different media keys)



NOTES: 1. In both MULTI-TENDERING and SPLIT-TENDERING operations, the sale is finalized, a receipt is issued, and the drawer opens on reaching the sale total amount.
2. If a media key is depressed without an amount tendering entry (if that key can function as a "Total" key), the sale is then finalized on that stage, processing all the balance due into that media.)

CHECK CASHING (Mode Lock: REG)

| AMOUNT OF CHECK TO BE CASHED | → CHK TND ... The drawer opens and a receipt is issued. Receive the check and pay the amount in cash to the customer.

NOTES: 1. Check cashing is allowed only outside a sale.
2. The system option provides a selection to prohibit check cashing operations, if necessary.
3. The MSC TND key may be programmed to allow cashing, if necessary.

VALIDATION PRINT (Mode Lock: REG or [-])

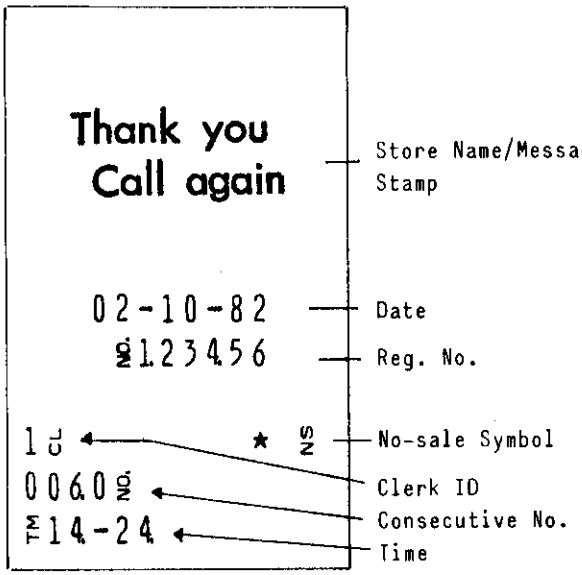
After entering an item through a transaction key or a media key → Insert a validation slip into the validation slot. Make sure that the "SLP" Lamp is lit. → VALI DATE

NOTES: 1. No other operations can follow until the validation slip once printed is withdrawn.
2. Validation printing cannot be done after a non-add number or no-sale registration.
3. The following are the selections that can be programmed in the system option related to validation:

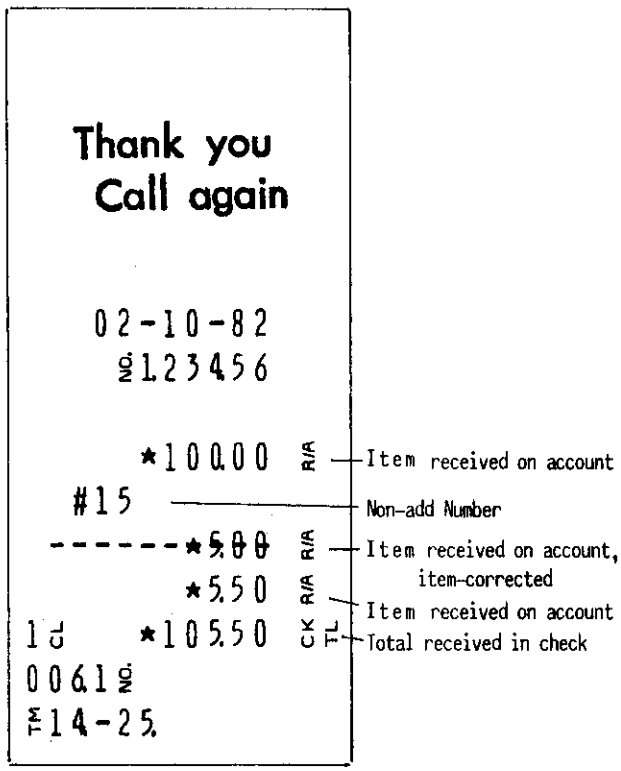
(1) PRINT FORMAT
a) AMOUNT only
b) DATE (MONTH, DAY, YEAR) and AMOUNT
c) MONTH, DAY, AMOUNT, and CONSECUTIVE NO.
(2) MULTI-VALIDATION or SINGLE-VALIDATION
(3) VALIDATION COMPULSORY on various transaction keys

RECEIPT SAMPLES

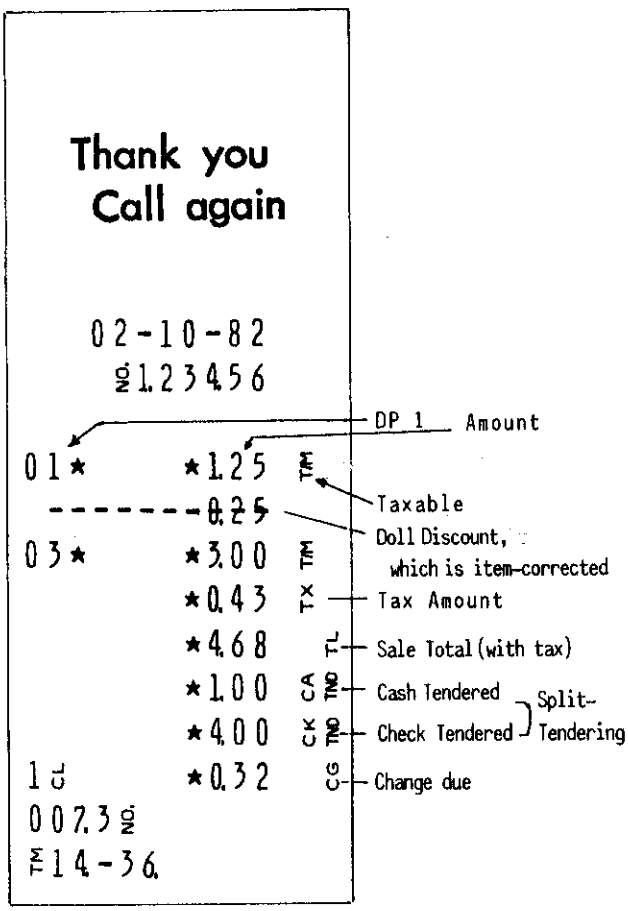
NO-SALE



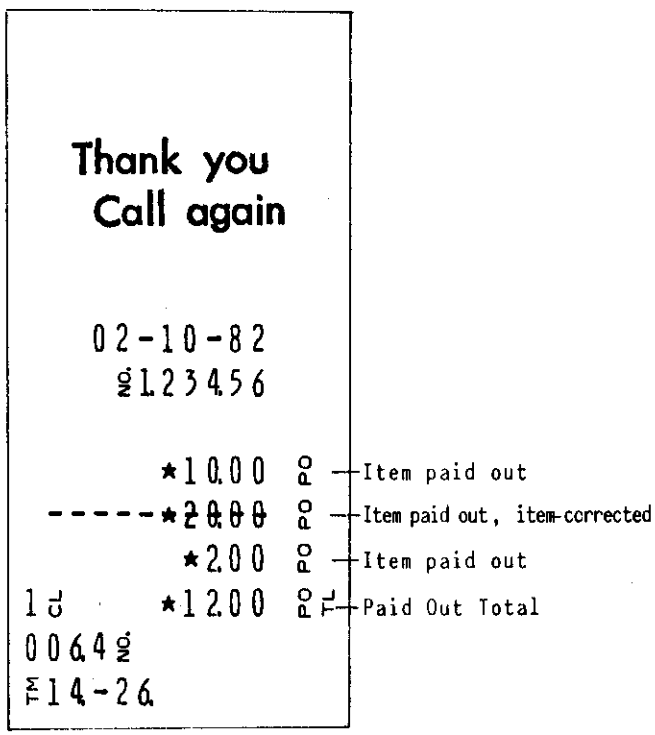
RECEIVED ON ACCOUNT



DP ENTRY



PAID OUT



% ENTRY

```
Thank you
 Call again

   02-10-82
    NO.123456

01*        *1.25  TM
04*        *2.75
           *4.00  ST
   #       *4.00  ST
      15.         %-
           -0.60
           *0.13  TX
1 CL       *3.53  CA TL
0087 NO.
TM14-34
```

%- (15%)

%- amount

RETURNED MERCHANDISE

```
Thank you
 Call again

   02-10-82
    NO.123456

07*        *1.00  RTN
1 CL       -1.00  CA TL
0068 NO.
TM14-33
```

Returned Item into DP 7

Balance due
(to be paid back to the customer in cash, in this case)

PLU ENTRY

```
Thank you
 Call again

   02-10-82
    NO.123456

456. PLU   *3.00  TM
           *0.30  TX
1 CL       *3.30  CA TL
0084 NO.
TM14-45
```

PLU No.456

Amount

QUANTITY EXTENSION

```
Thank you
 Call again

   02-10-82
    NO.123456

   5.      X
           2.00   @
08*        *10.00
   7.      X
          15.00   @
11*       *105.00
2 CL      *115.00  CA TL
0100 NO.
TM14-53
```

Quantity (5)

Price ($2.00)

Product ($10.00)

READ(X) AND RESET(Z) REPORT

The following table shows the key operation to take each report and its content. The "X" and "Z" reports have exactly the same content printed, except that:

1. The "X" reports allow to read the totals but not clear memories, while the "Z" reports allow to read the totals and at the same time all the resettable memories will be cleared when the reports have been issued.

2. The symbol "X" is printed on the top line of a "X" report, while "Z" is printed on a "Z" report, to indicate the type of report.

3. A reset count is printed on the bottom of a "Z" report only.

TABLE OF X AND Z REPORTS

(REPORT NAME)	(KEY OPERATION)	(CONTENT & REMARKS)
AUTO SCAN READ AUTO SCAN RESET	Mode Lock: X or Z → [AT/TL]	All DEPT & Transaction Totals that have memories opened.
PLU AUTO SCAN READ PLU AUTO SCAN RESET	Mode Lock: X or Z → [PLU]	All the totals of PLUs that have been set. (The Z report will not clear the preset prices.)
INDIV. DEPT. READ	Mode Lock: X ex.) [DEPT 1] → [DEPT2] → [ST] [DEPT 3] → [DEPT4] → [ST] .... [AT/TL]	Designated Department Item Count, and Total (Customer Count--optional) ([ST] ...to obtain the sub-total of the departments printed between two [ST] key depressions. [AT/TL] ...to obtain the total of all the depart-ments printed so far and to finalize the report.)
INDIV. PLU READ	Mode Lock: X ex) [PLU CODE] → [PLU] ↑ may repeat ↑ may repeat [ST] ... [AT/TL]	Designated PLU Total ([ST] and [AT/TL] funtion the same way as in the INDIV.DEPT.READ operation above.)
PLU ZONE READ	Mode Lock: X [START PLU CODE] → [X] → [END PLU CODE] → [PLU]	Totals of the PLUs desig-nated by the zone (from the START PLU through the END PLU)

TABLE OF X AND Z REPORTS -- Continued --

(REPORT NAME)	(KEY OPERATION)	(CONTENT & REMARKS)
HOURLY TOTAL READ	Mode Lock: X 10 [AT/TL]	Item Count (and Customer Count--optional) and Total of each Hourly Range
INDIV. CLERK READ INDIV. CLERK RESET	Mode Lock: X Mode Lock: Z →Clerk 1 Key ON, Enter 1, [AT/TL] →Clerk 2 Key ON, Enter 2, [AT/TL] →Clerk 3 Key ON, Enter 3, [AT/TL] →Clerk 4 Key ON, Enter 4, [AT/TL]	Totals of the sales operated by the designated clerk
INDIV. TRANSACTION READ	Mode Lock: X	
Cash-in-drawer	[#/NS] (or [#])	Total Customer Count, (Cash Customer Count) (Cash Sales Total) — optional Cash-in-drawer Total
Check-in-Drawer	[CHK TND]	(Check Cus. Count) (Check Sales Total) — opt. Check-in-drawer Count Check-in-drawer Total
Misc.-in-drawer	[MSC TND]	(Misc. Cus. Count) (Misc. Sales Total) — opt. Misc-in-drawer Count Misc-in-drawer Total
Charge-in-drawer	[Chg]	(Charge Cus. Count) (Charge Sales Total) — opt. Charge-in-drawer Count Charge-in-drawer Total
Percent Charge	[%+]	%+ Count %+ Total
Percent Discount	[%-]	%- Count, %- Total — entered after [ST] %- Count, %- Total — entered after departments
Tax	[TXBL TL]	Tax 1 Total Taxable Total 1 Tax 2 Total Taxable Total 2

TABLE OF X AND Z REPORTS -- Continued --

(REPORT NAME)	(KEY OPERATION)	(CONTENT & REMARKS)
INDIV. TRANSACTION READ (Continued)		
	Mode Lock: X	
Bottle Returned	[BTL RTN]	Bottle Returned Count Bottle Returned Total
Returned Merchandise	[RTN MDSE]	Returned Merchandise Item Count Returned Merchandise Total
Dollar Discount	[DOLL DISC]	Dollar Discount Count Dollar Discount Total
Paid Out	[PO]	Paid Out Count Paid Out Total
Received on Account	[R/A]	Received on Account Count Received on Account Total
Item Correction & Voiding	[ITEM CORR] or [VOID] or [IC/VD]	Item Correct Count Item Correct Total (on DEPTs(+) and %+) Void Count Void Total (on DEPTs(+) and %+) Other Void Count Other Void Total
GTX (Accumulated Totals Read)	GT Lock: GTX [AT/TL]	All the accumulated totals are printed.
GTZ (Accumulated Totals Reset)	GT Lock: GTZ [AT/TL]	All the accumulated totals are printed and resettable totals will be cleared when the report has been issued.
	NOTE: When the GT Lock is turned to GTX or GTZ, the Mode Lock position is disregarded wherever it may be.	

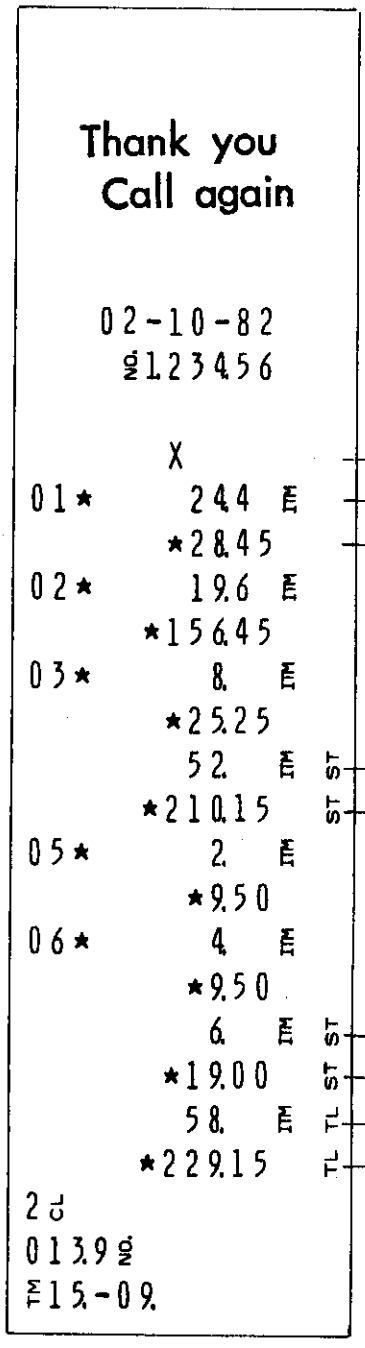
NOTE: No Clerk Key is necessary to issue any of the reports except the INDIVIDUAL CLERK READ/RESET reports.

REPORT SAMPLES

INDIVIDUAL DEPARTMENT READ

Key Operation

Mode Lock: X



DEPT 1 — DP 1 Item Count

DEPT 1 — DP 1 Sales Total

DEPT 2

DEPT 3

ST — (DP1+DP2+DP3) Item Count

ST — (DP1+DP2+DP3) Sales Total

DEPT 5

DEPT 6

ST — (DP5+DP6) Item Count

ST — (DP5+DP6) Sales Total

AT/TL — Total Item Count of DPs read in this report

TL — Total Sales Amount of DPs read in this report

Read Report Symbol

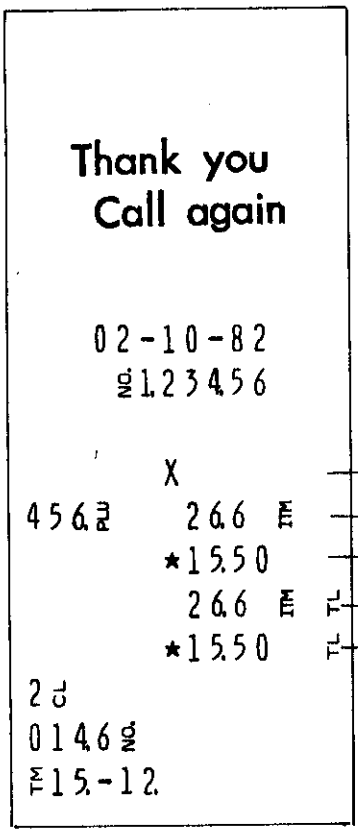
Key Operation

Mode Lock: X

INDIVIDUAL PLU READ

|456| [PLU]

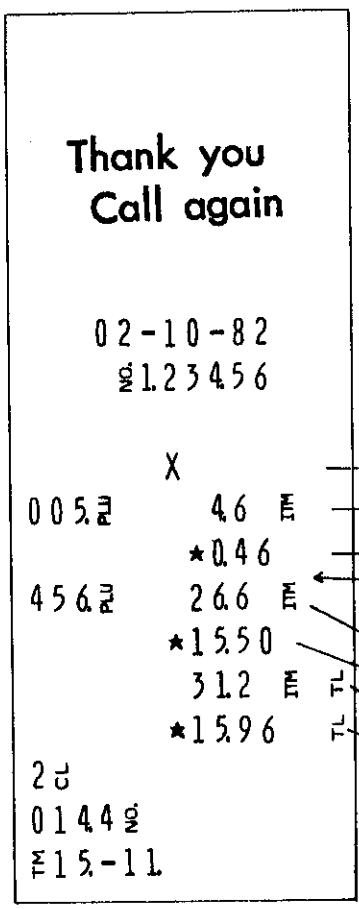
([ST])
[AT/TL]



Read Report Symbol
PLU No.456, Item Count
Sales Total
Total Item Count of PLUs read here
Total Sales Amount of PLUs read here

PLU ZONE READ

|5| [@/FOR] (Start PLU)
|456| [PLU] (End PLU)



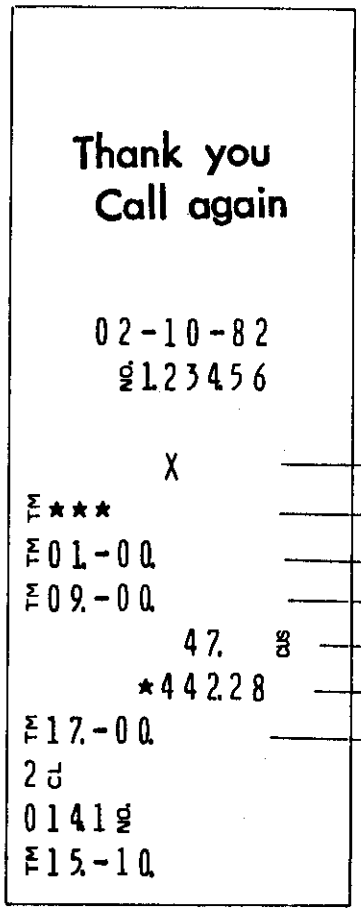
Read Report Symbol
PLU No.5(Start PLU), Item Count
Sales Total
(More PLUs should be printed here if any sales data have been recorded.)
PLU No.456(End PLU), Item Count
Sales Total
Total Item Count of PLUs in the Zone
Total Sales Amount of PLUs in the Zone

HOURLY TOTAL READ

Key Operation

Mode Lock: X

|10| AT/TL



Read Report Symbol

Hourly Report Symbol

Time Range 1:00 ~ 9:00 (No sale recorded)

Time Range 9:00 ~ 17:00

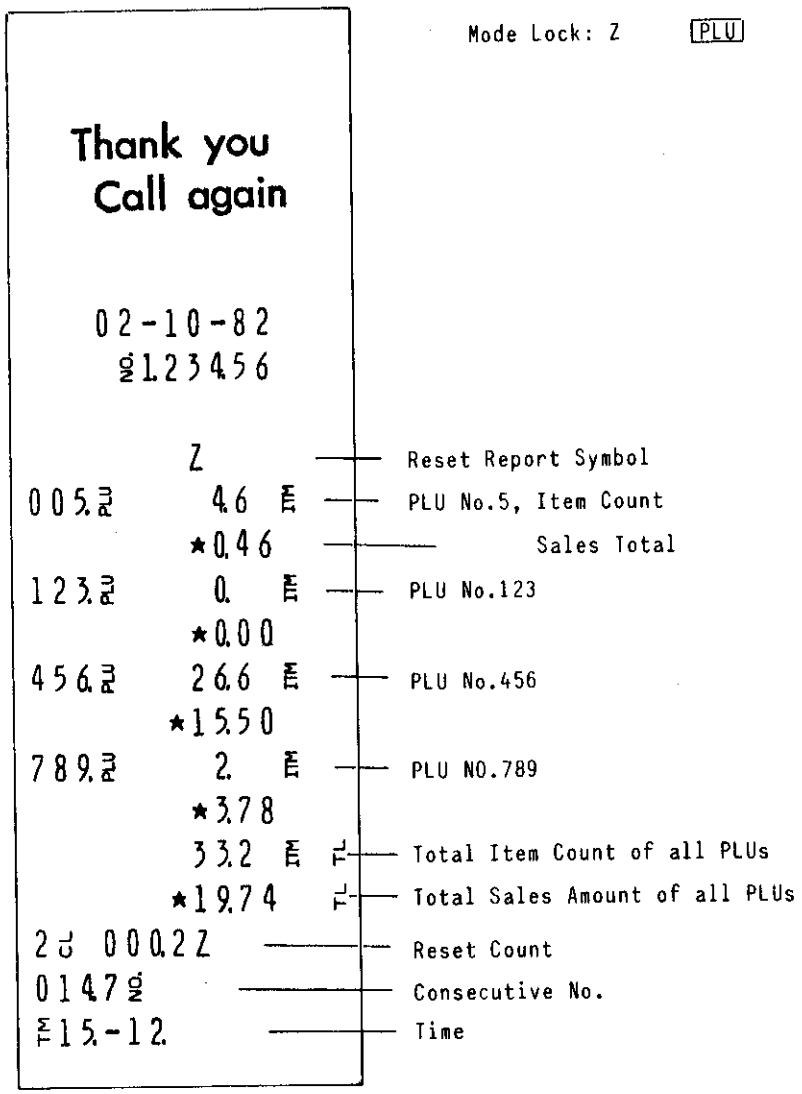
Customer Count

Sales Total

Time Range 17:00 ~ (No sale recorded)

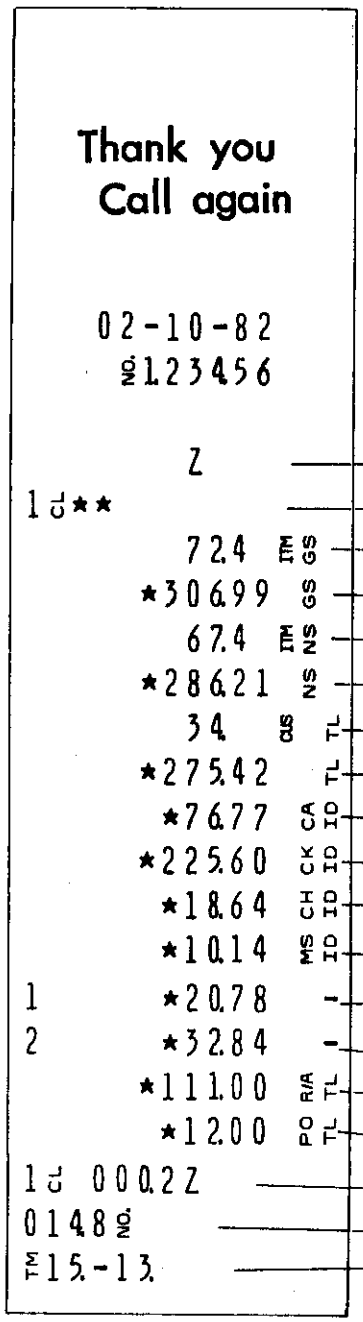
PLU AUTO SCAN RESET

Mode Lock: Z [PLU]



INDIVIDUAL CLERK RESET

Mode Lock: Z Clerk 1 Key ON, |1| [AT/TL]



Reset Report Symbol

Clerk 1 Report

Item Count (for Gross Sales)

Gross Sales

Item Count (for Net Sales)

Net Sales

Customer Count

Total (= CATL + CKTL + CHTL + MSTL)

Cash-in-drawer

Check-in-drawer

Charge-in-drawer

Misc.-in-drawer

NEG 1 = NEG SALE + VD1 + VD2 + BTR2 + RTN + RTN2 + %-(ITM)

NEG 2 = %-(TL) + DOLL DISC + BTR + VD3

Received on Account

Paid Out

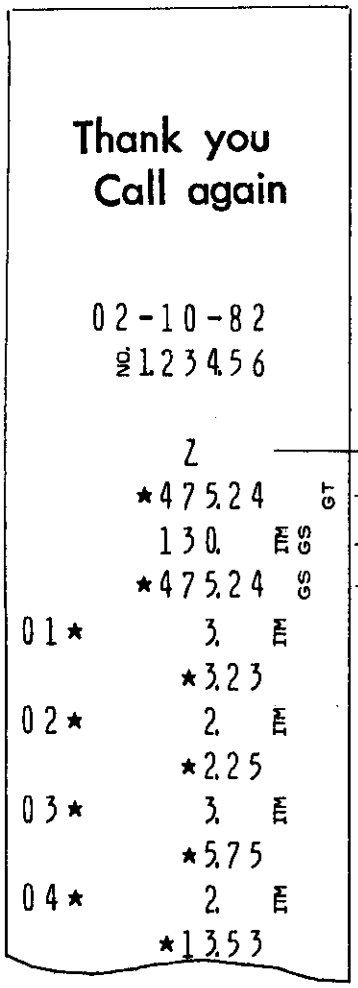
Clerk 1 Reset Count

Consecutive No.

Time

AUTO SCAN RESET

Mode Lock: Z [AT/TL]



Reset Report Symbol

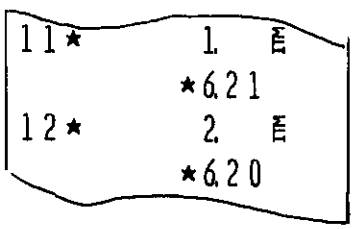
Grand Total (non-resettable)

Item Count (for Gross Sales)

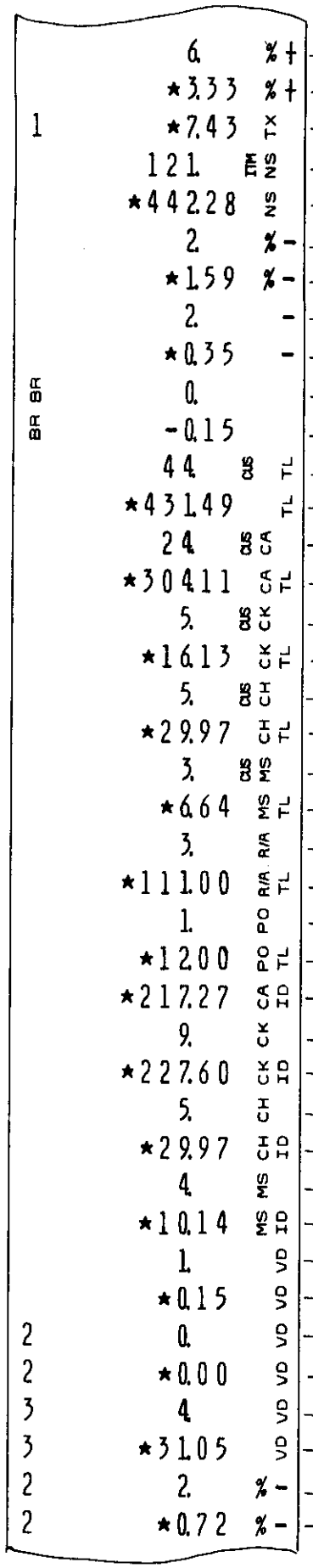
Gross Sales

DP 1 Item Count

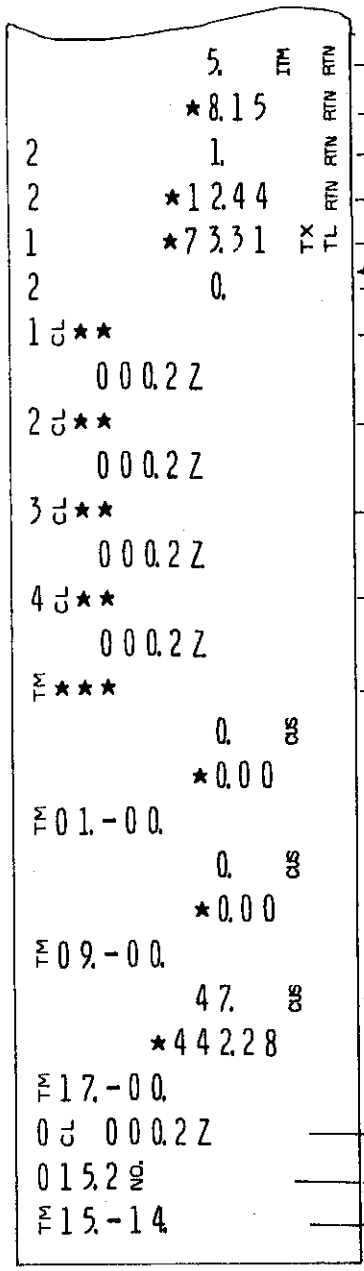
Sale Total



(AUTO SCAN RESET --Contintued--)



(**AUTO SCAN RESET** --Continued--)



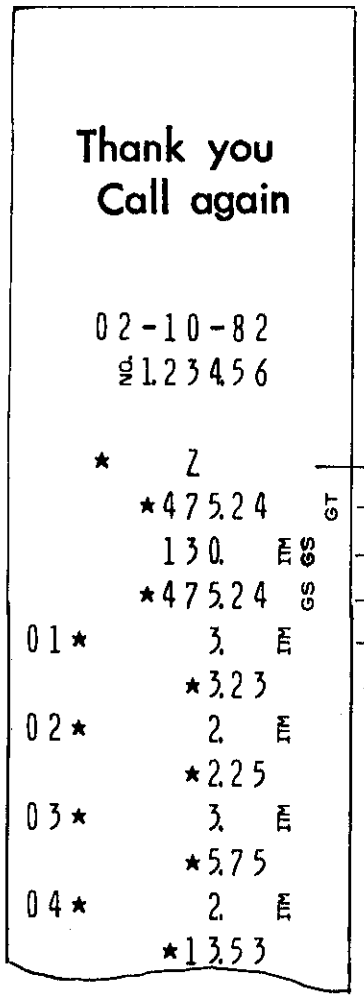
- Returned Merchandise Count
- Returned Merchandise Total
- [-] Mode Count
- [-] Mode Total
- Taxable Total 1
- (Taxable Total 2 on a dual-tax ECR)
- Validation Counter
- Clerk 1 Sales Data:
  - Reset Count
- Clerk 2 Sales Data:
  - Reset Count
- Clerk 3 Sales Data:
  - Reset Count
- Clerk 4 Sales Data:
  - Reset Count

NOTE: The sales data of the clerks here have been reset because the INDIVIDUAL CLERK RESET has been operated for each Clerk prior to this AUTO SCAN RESET. If this AUTO SCAN RESET is issued prior to the Clerk Resets, the sales data are printed here. See each item description in the INDIVIDUAL CLERK RESET.

- Hourly Total Data:
  - before 1:00
  - 1:00 ~ 9:00
  - Customer Count
  - Sales Total

  9:00 ~ 17:00
- Clerk ID when this report is issued, Reset Count
- Consecutive No.
- Time

GTZ (Accumulated Totals Reset)



GTZ Symbol

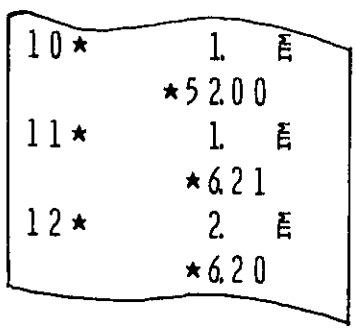
Non-resettable Grand Total

Item Count (for Gross Sales)

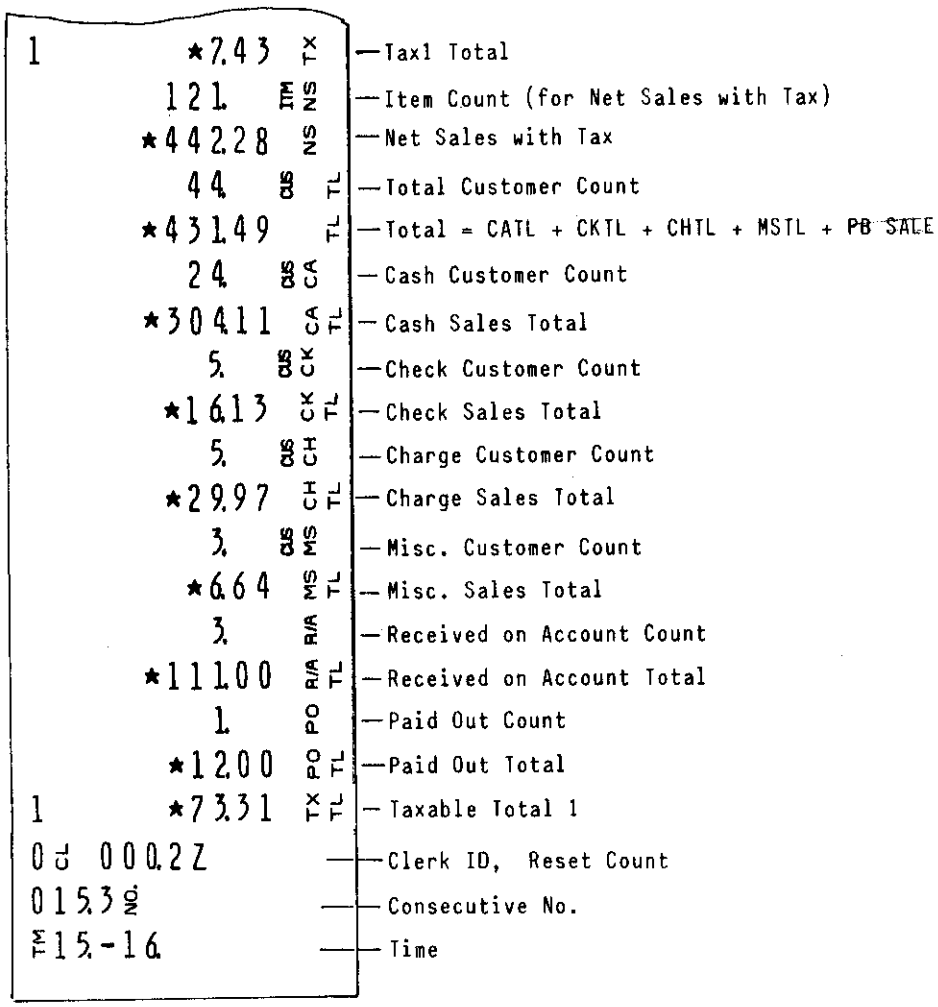
Gross Sales

DP 1 Item Count

Sales Total



(GTZ --Continued--)

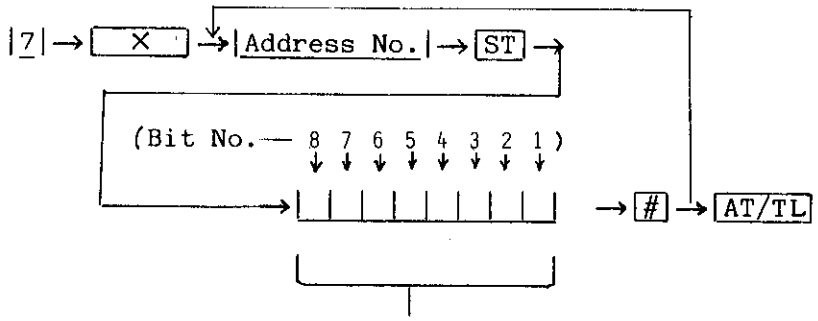


PROGRAMMING OF THE REGISTER

CUSTOMER'S SYSTEM OPTION PROGRAMMING (Condition: after a Z reset and a GTZ reset)

To change or newly program various selections provided in the costomer system option:

Mode Lock: SET Key Operation



Enter a 8-digit number composed of "0" or "1" on each digit as each Bit status selection.

ex.) |0|0|0|1|0|1|0|0|

This indicates that Bit Nos 5 and 3 are selected to have "1" status, and other Bit Nos are selected to have "0" status. The top "0"s (the first three "0"s in this case) may be omitted.

See the Address Nos and Bit Nos in the tables below and on the following pages.

CUSTOMER SYSTEM OPTION TABLES

Address No.	Contents
1	MEDIA FUNCTION I

Bit No.	Item	Selective Status		Standard Status	Remarks
1	CASH MEDIA KEY	0		*	If both " 0 ", it functions as TENDER and TOTAL Key.
		1	TOTAL KEY only		
2	CASH MEDIA KEY	0		*	
		1	TENDER KEY only		
3	CHECK MEDIA KEY	0		*	If both " 0 ", it functions as TENDER and TOTAL Key.
		1	TOTAL KEY only		
4	CHECK MEDIA KEY	0			
		1	TENDER KEY only	*	
5	CHARGE MEDIA KEY	0			If both " 0 ", it functions as TENDER and TOTAL Key.
		1	TOTAL KEY only	*	
6	CHARGE MEDIA KEY	0		*	
		1	TENDER KEY only		
7	MISC. MEDIA KEY	0		*	If both " 0 ", it functions as TENDER and TOTAL Key.
		1	TOTAL KEY only		
8	MISC. MEDIA KEY	0			
		1	TENDER KEY only	*	

Address No.	Contents
2	MGR REQUIREMENT I

Bit No.	Item		Selective Status	Standard Status	Remarks
1	[RTN MDSE]	0	FREE	*	
		1	COMPULSORY		
2	[PO]	0	FREE	*	
		1	COMPULSORY		
3	[DOLL DISC]	0	FREE	*	
		1	COMPULSORY		
4	Negative DEPT, [BIL RTN]	0	FREE	*	
		1	COMPULSORY		
5	[VOID]	0	FREE	*	This option is applied to the [IC/VD] key when used as the "VOID" key.
		1	COMPULSORY		
6	[%-]	0	FREE	*	
		1	COMPULSORY		
7	-- vacant --	0		*	
		1			
8	-- vacant --	0		*	
		1			

Address No.	Contents
3	VALIDATION COMPULSORY I

Bit No.	Item		Selective Status	Standard Status	Remarks
1	[RTN MDSE]	0	FREE	*	
		1	COMPULSORY		
2	[PO]	0	FREE	*	
		1	COMPULSORY		
3	[R/A]	0	FREE	*	
		1	COMPULSORY		
4	[CHK TND]	0	FREE	*	
		1	COMPULSORY		
5	[Chg].	0	FREE	*	
		1	COMPULSORY		
6	[AT/TL]	0	FREE	*	
		1	COMPULSORY		
7	[MSC TND]	0	FREE	*	
		1	COMPULSORY		
8	[VOID]	0	FREE	*	This option is applied to the [IC/VD] key when used as the "VOID" key.
		1	COMPULSORY		

Address No.	Contents
4	VALIDATION COMPULSORY II

Bit No.	Item	Selective Status		Standard Status	Remarks
1	[ITEM CORR]	0	FREE	*	This option is applied to the [IC/VD] key when used as the "ITEM CORR" key.
		1	COMPULSORY		
2	[DOLL DISC]	0	FREE	*	
		1	COMPULSORY		
3	[%-]	0	FREE	*	
		1	COMPULSORY		
4	Negative DEPT	0	FREE	*	
		1	COMPULSORY		
5	[BTL RTN]	0	FREE	*	
		1	COMPULSORY		
6	-- vacant --	0		*	
		1			
7	-- vacant --	0		*	
		1			
8	-- vacant --	0		*	
		1			

Address No.	Contents
5	FRACTION ROUNDING

Bit No.	Item	Selective Status		Standard Status	Remarks
1	QUANTITY EXTEN-SION PRODUCT	0		*	If both " 0 ", it will be rounded off.
		1	ROUND UP		
2	QUANTITY EXTEN-SION PRODUCT	0		*	
		1	DISCARD		
3	%+ & %- CALCULATION	0		*	if both " 0 ", it will be rounded off
		1	ROUND UP		
4	%+ & %- CALCULATION	0		*	
		1	DISCARD		
5	-- vacant --	0		*	
		1			
6	-- vacant --	0		*	
		1			
7	-- vacant --	0		*	
		1			
8	-- vacant --	0		*	
		1			

Address No.	Contents
6	TAX 1 STATUS

Bit No.	Item	Selective Status		Standard Status	Remarks
1	[%+]	0	NON-TAXABLE	*	
		1	TAXABLE		
2	[%-]	0	NON-TAXABLE	*	
		1	TAXABLE		
3	[DOLL DISC]	0	NON-TAXABLE	*	
		1	TAXABLE		
4	[BTL RTN]	0	NON-TAXABLE	*	
		1	TAXABLE		
5	-- vacant --	0		*	
		1			
6	-- vacant --	0		*	
		1			
7	-- vacant --	0		*	
		1			
8	-- vacant --	0		*	
		1			

Address No.	Contents
7	TAX 2 STATUS

Bit No.	Item	Selective Status		Standard Status	Remarks
1	[%+]	0	NON-TAXABLE	*	
		1	TAXABLE		
2	[%-]	0	NON-TAXABLE	*	
		1	TAXABLE		
3	[DOLL DISC]	0	NON-TAXABLE	*	
		1	TAXABLE		
4	[BTL RTN]	0	NON-TAXABLE	*	
		1	TAXABLE		
5	-- vacant --	0		*	
		1			
6	-- vacant --	0		*	
		1			
7	-- vacant --	0		*	
		1			
8	-- vacant --	0		*	
		1			

SETTNG OR CHANGING THE STORE/REGISTER NUMBER (Condition: after a Z reset and a GTZ reset)

Mode Lock: SET

Key Operation: |NUMBER| → [#] (or [#/NS])

(0 ~ 999999)

NOTE: The [.] key is not allowed in the number entry.

SETTING THE DATE (Condition: anytime outside a sale)

Mode Lock: SET Key Operation:

|6| → [X] → |Month| Day | YEAR| → [AT/TL]

1 or 2 digits (1~12)

2 digits (01~31)

2 digits (82, 83, etc.)

NOTE: The date entry order may be DAY-MONTH-YEAR, if so programmed in the system option.

SETTING THE TIME (Condition: anytime outside a sale)

Mode Lock: SET Key Operation:

|5| → [X] → |HOUR |MINUTE| → [AT/TL]

1 or 2 dig. (0~23)

2 digits (00~59)

NOTE: Enter the hour in the 24-hour system.

SETTING INDIVIDUAL DEPARTMENT STATUS (Condition: after a Z reset; also requires a GTZ reset and PLU reset if the negative status is to be changed also.)

Mode Lock: SET Key Operation:

|1| → [X] →

([TX/M]) for single-tax status change

([TX1/M]) — ([TX2/M]) for Tax 1 status change / for Tax 2 status change

([RTN MDSE]) for negative department status change → [DEPT] → [AT/TL]

Repeat until all the required DEPTs are set or changed with the staus.

NOTES: 1. Among [TX1/M] ([TX/M]) and [TX2/M] keys, depress the key(s) for the required status change(s) for each department. The [RTN MDSE] is depressed to set or reset the negative DEPT status.

2. Depressing any of the three keys above, the related status reverses. For example, depressing the [TX./M] reverses a non-taxable DEPT to a taxable, or taxable to non-taxable. Each department status is read by the number indicated on the display when each department key is depressed in the above operation. The numbers and their respective statuses are:

   0: Non-taxable
   1: Tax 1 only
   2: Tax 2 only
   3: Tax 1 and Tax 2

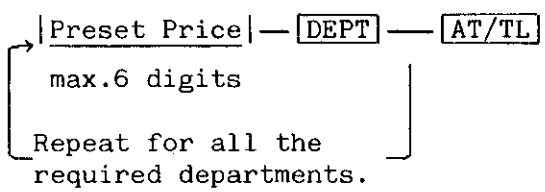
   Watching the number, adjust the status by depressing those keys. See the examples below:

STATUS NUMBER BEFORE CHANGE	→	KEY-IN FOR CHANGE PRIOR TO [DEPT] KEY	→	NEW NUMBER AND STATUS OBTAINED
0	→	[TX1/M]	→	1(Tax1 only)
0	→	[TX1/M] [TX2/M]	→	3(Tax1 and Tax2)
0	→	[TX2/M]	→	2(Tax2 only)
		⋮		
		etc.		
1	→	[TX1/M]	→	0(Non-txbl)
1	→	[TX2/M]	→	3(Tax1 and Tax2)
1	→	[TX1/M] [TX2/M]	→	2(Tax2 only)
		⋮		
		etc.		
2	→	[TX2/M]	→	0(non-taxable)
2	→	[TX1/M]	→	3(Tax1 and Tax2)
3	→	[TX1/M]	→	2(Tax2 only)
		etc.		

3. In order to simplify the status setting operation, each department status may be reset to "0" by entering "0" and depressing the department key. (This can only be done after a GTZ reset and a PLU Z reset.) Then the required status is set simply by depressing the keys [TX1/M] ([TX/M]) and/or [TX2/M], each only once.

SETTING OR CHANGING DEPARTMENT PRESET PRICE (Condition: anytime outside a sale.)

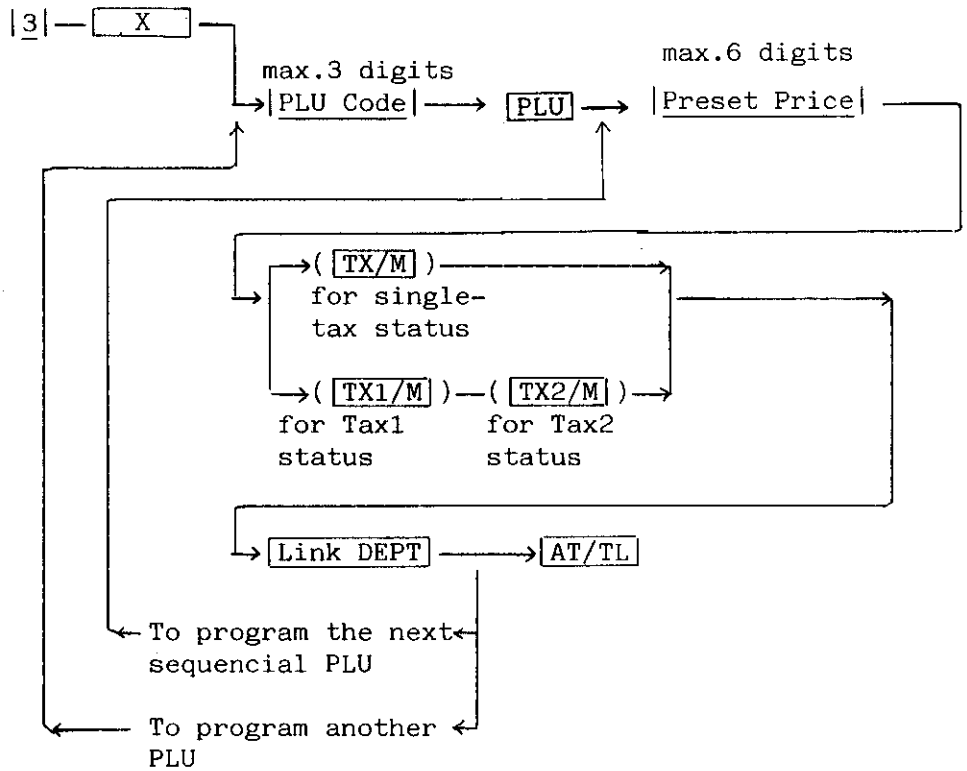
Mode Lock: SET Key Operation:



NOTES: 1. To preset the price of "0", enter "0" in place of |Preset Price| in the above operation.
2. If no price is entered at the |Preset Price|, the department is set as an open department.

PROGRAMMING PLU TABLE (Condition: after a Z reset to renew the PLU table, or anytime ouside a sale to program additional PLUs)

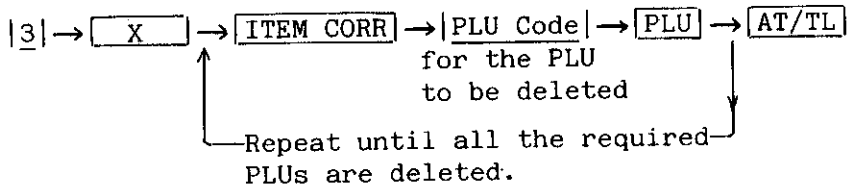
Mode Lock: SET Key Operation:



NOTES: 1. As for the functions and operations of the TX1/M (TX/M), and TX2/M keys, see the description in the SETTING OR CHANGING DEPARTMENT STATUS.
2. When the link department has been programmed to be negative, any PLU to be linked to it is automatically set as a negative PLU. Reversing this negative status is not possible unless the link department itself is re-programmed to be positive.
3. A maximum of 150 PLUs can be programmed.

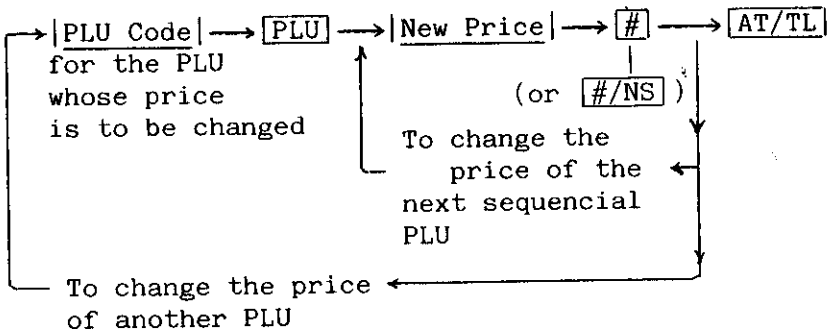
DELETING INDIVIDUAL PLU (Condition: after a PLU Z reset)

Mode Lock: SET Key Operation:



CHANGING PLU PRESET PRICE (Condition: anytime outside a sale)

Mode Lock: SET Key Operation:



NOTES: 1. To preset the price of "0", enter "0" in place of the |New Price| in the above operation.

2. In this operation, changes of PLU stautus, its link department, etc. are not possible.

PROGRAMMING TAX TABLE (Condition: after a Z reset and GTZ reset)

Mode Lock: SET

1) TAX 1 FULL BREAKS

Key Operation: |max. amount non-taxable| → [TX1/M]

|max. amount for 1¢ tax levied| → [TX1/M]

|max. amount for 2¢ tax levied| → [TX1/M]

⋮ ⋮

Repeat until the "A" Break is entered.

⋮ ⋮

|max. amount for N¢ tax levied| → [TX1/M] ..."A" Break

[ST] (to indicate the "A" Break entry)

|max. amount for N+1¢ tax levied| → [TX1/M]

|max. amount for N+2¢ tax levied| → [TX1/M]

⋮ ⋮

Repeat until the "B" Break is entered.

[AT/TL] (to end)

NOTE: The amount etnry may be maximum 4-digit value (up to 9999¢).

2) TAX 1 "A" BREAK AND % RATE COMBINATION

Key Operation: First set the "A" Break following the same operation up to the "A" Break entry and the [ST] key depression in "1) TAX 1 FULL BREAKS" above.

↓

|TAX RATE applied when exceeding the "A" Break amount|

(max. 4 digits, up to 99.99%. Do not use the [.] key. The fraction of the amount resulted from this % rate calculation will be rounded off.)

↓

[AT/TL] (to end)

3) TAX 1 % RATE ONLY

Key Operation: |0| → [TX1/M] → [ST] → |TAX RATE| → [AT/TL]

(The conditions of the rate are the same as the above TAX RATE.)

NOTES: 1. If only one tax modifier key ([TX/M]) is installed on the keyboard, use the [TX/M] in place of the [TX1/M] in the description 1), 2), or 3) above.

2. For TAX 2 Table programming, follow the same procedure in the 1), 2), or 3) above, using the [TX2/M] instead of the [TX1/M].
3. If both TAX 1 and TAX 2 tables are programmed, the TAX 1 must be set first. The TAX 1 table entry will automatically reset both the TAX 1 and TAX 2 tables that have been programmed.
4. No second depression of the [ST] key is allowed within one tax table programming.

SETTING NON-TAXABLE LIMIT AMOUNT (for a certain area only)
(Condition: after a Z reset)

This may be programmed only when one tax modifier key ([TX/M]) is installed. The tax levied when exceeding this limit amount will be calculated by the TAX 1 table.

Mode Lock: SET Key Operation:

|9|→[X]→|Non-taxable Limit Amount|→[AT/TL]

NOTES: 1. If this program has been set, the tax is calculated and added to the sale total which exceeds the limit amount even when the sale is entirely composed of non-taxable items.
2. To reset the limt amount once set, enter "0" in place of the |Non-taxable Limit Amount| in the above operation.
3. This tax calculation program will be disregarded when the sale total turns out to be negative.

ex.) In case the limit amount "$3.25" is set:

Case 1: Normal Department Entry; (Mode Lock: REG)

|326|→[non-taxable DEPT]→[AT/TL]

..... The entered amount $3.26 is greater than the limit amount $3.25. It will therefore be taxed.

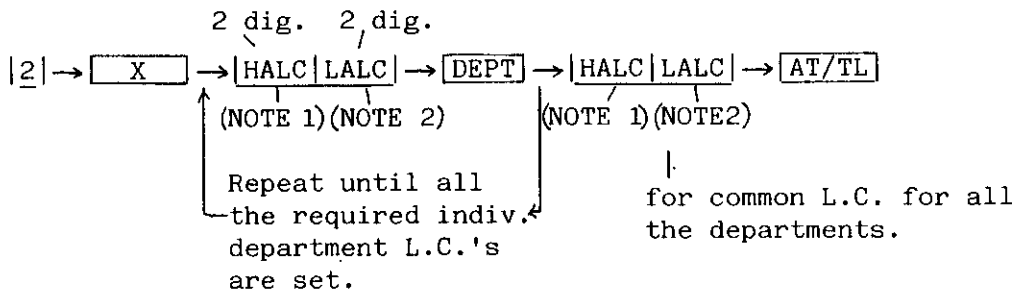
Case 2: Returned Merchandise Entry: (Mode Lock: REG)

[RTN MDSE]→|326|→[non-taxable DEPT]→[AT/TL]

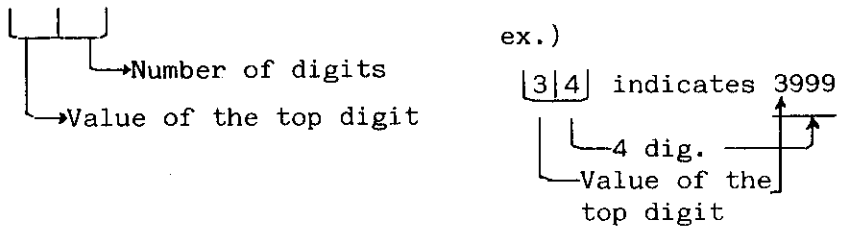
..... The non-taxable total is negative. The tax already levied will therefore not be returned.

SETTING THE LISTING CAPACITY OF DEPARTMENT (Condition: after a Z reset)

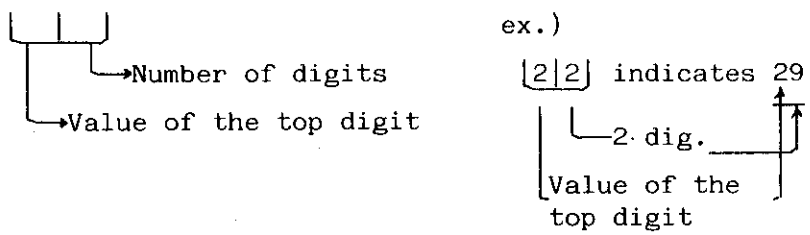
Mode Lock: SET Key Operation:



NOTE 1: HALC.....High Amount Listing Capacity



NOTE 2: LALC.....Low Amount Listing Capacity



The amount range allowed to be entered:

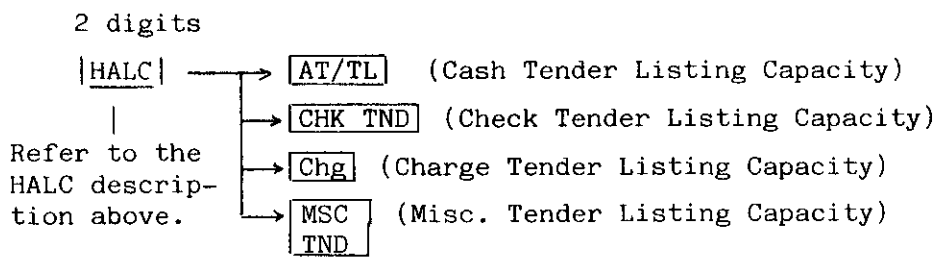
equal to or smaller than the HALC, and larger than the LALC

NOTES: 1. If the individual listing capacity of a department has been set, it prevails over the common listing capacity of all the departments.

2. To reset an individual department listing capacity, enter "0" before the DEPT key in the above operation. Then the common listing capacity of all the departments, if pre-programmed, will prevail.

SETTING TENDER LISTING CAPACITIES (Condition: after a Z reset)

Mode Lock: SET Key Operation:



NOTE: To reset the tender listing capacity of a media key once programmed, enter "0" and depress the media key in the SET mode.

SETTING BOTTLE RETURN AMOUNT LIMIT (Condition: after a Z reset)

Mode Lock: SET Key Operation:

|Bottle Return Limit Amount| → [BTL RTN]

max 4 digits (up to 9999¢)

NOTES: 1. If quantity extension is operated with the [BTL RTN] key, the multiplier is subject to the amount limit not the product.
2. To reset the limit amount once set, operate in the SET mode:
|0| → [BTL RTN]

SETTING DOLLAR DISCOUNT LIMIT (Condition: after a Z reset)

Mode Lock: SET Key Operation:

|Dollar Discount Limit Amount| → [DOLL DISC]

max. 4 digits
(up to 9999¢)

NOTE: To reset the limit amount once set, operate in the SET mode:
|0| → [DOLL DISC]

PROGRAMMING THE PRESET RATES OF [%+] AND [%-] KEYS (Condition: anytime outside a sale)

Mode Lock: SET Key Operation

1) To set a rate of a integral value:

|RATE| → [%+]

|RATE| → [%-]

max. 2 digits

2) To set a rate containing the deciaml point:

|Integral Portion| [.] |Decimal Portion| → [%+] / [%-]

max. 2 digits max. 3 digits
(up to 99.999%)

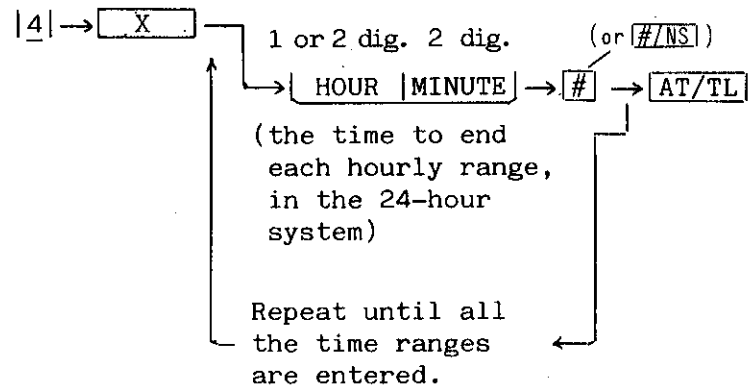
3) To reset the rate once set:

|0|→[%+]

|0|→[%-]

SETTING HOURLY RANGES (Condition: after a Z reset)

Mode Lock: SET Key Operation:



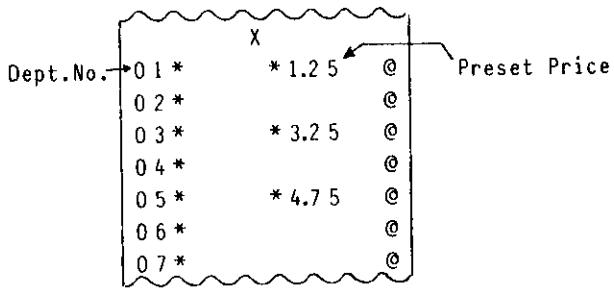
NOTES: 1. A maximum of 24 hourly ranges may be set.
2. To change the table of hourly ranges once set, partially or entirely, do the entire setting operation over again.
3. To reset the hourly range table once set:
   Mode Lock: SET, |4|→[X :]→|0|→[#](or [#/NS])→[AT/TL]
4. Do not set an hourly range across 24:00, such as "from 23:00 to 1:00".

VERIFICATION OF PROGRAMMED DATA

1. DEPARTMENT PRESET PRICE READ

Mode Lock: X

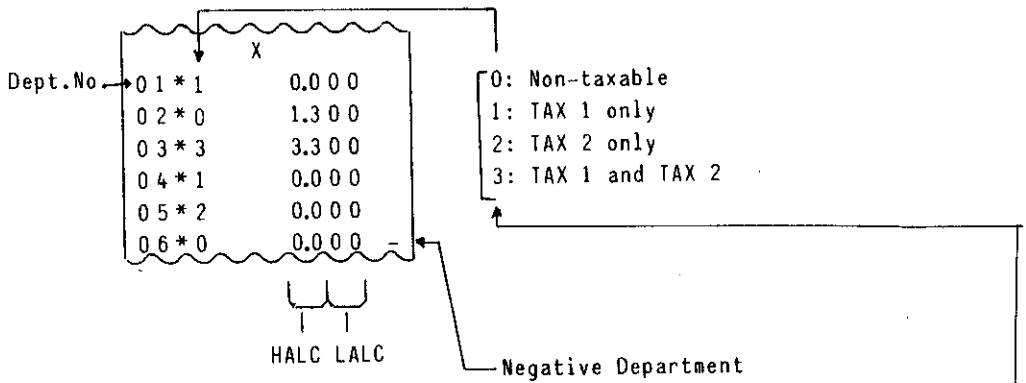
Key Operation: |1| → [ST]



2. DEPARTMENT STATUS READ

Mode Lock: X

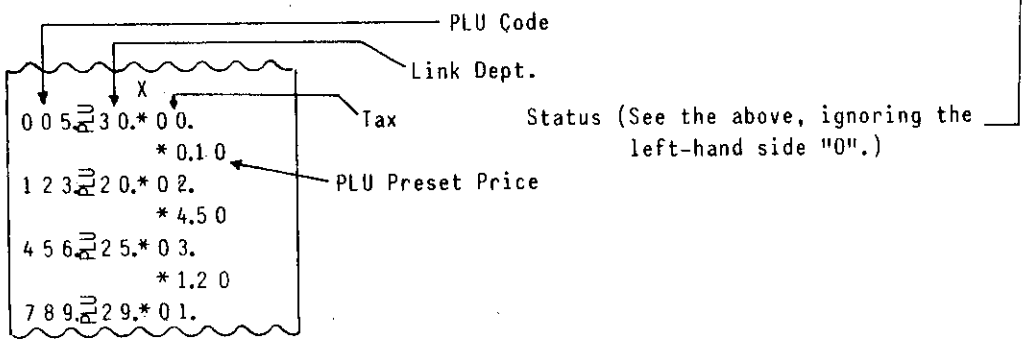
Key Operation: |2| → [ST]



3. PLU STATUS AND PRESET PRICE READ

Mode Lock: X

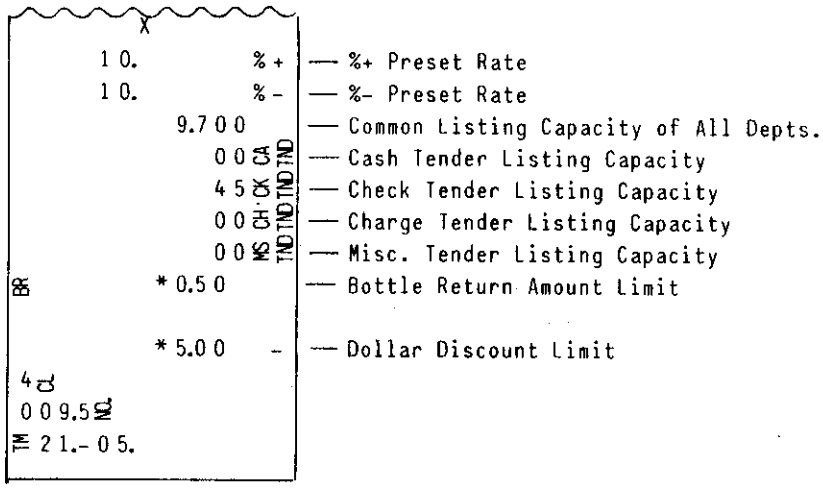
Key Operation: |3| → [ST]



4. OTHER PRESET DATA

Mode Lock: X

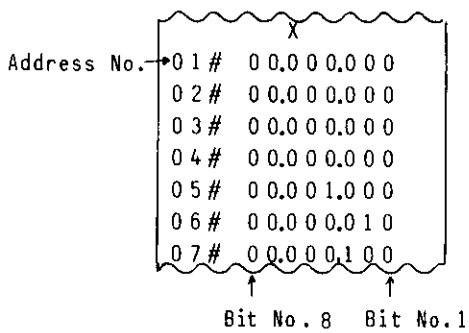
Key Operation: |4|→[ST]



5. CUSTOMER SYSTEM OPTION SELECTION READ

Mode Lock: X

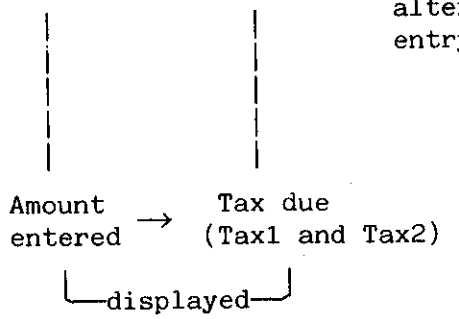
Key Operation: |5|→[ST]



6. TESTING TAX CALCULATION

Mode Lock: X

Key Operation: |Free Amount| → [TXBL TL] (Repeat this operation, alternating the amount entry with various amounts.)



A receipt is issued each time an amount is entered followed by the [TXBL TL] key, with the tax1 and tax2 printed separately on two lines (if dual-tax tables have been programmed).

INSTALLING AND REMOVING THE RECEIPT PAPER ROLL

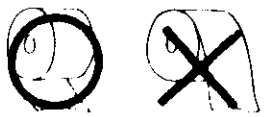


Fig. 1

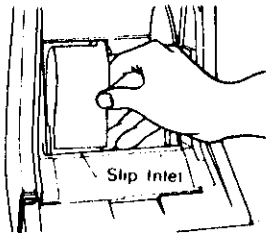


Fig. 2

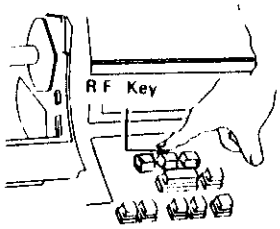


Fig. 3

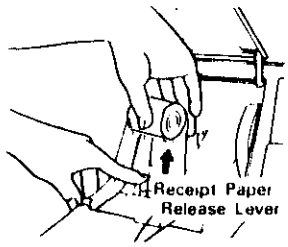


Fig. 4

■ **Installing the Receipt Paper**

1) Open the paper cover and install a new paper roll of the recommended type.
2) Install it with the receipt paper coming from the bottom of the roll (see **Fig. 1**).
3) Fold the paper end at a right-angle and thread it through the receipt paper inlet (see **Fig. 2**).
4) Depress the R.F. key until the paper end appears at the receipt paper outlet. If the paper ends do not come out of the receipt paper outlet after the R.F key is depressed, for a while, the paper is not properly threaded through the paper feed mechanism. Push the paper end through the receipt paper inlet while keeping the R.F. key depressed (see **Fig. 3**).

■ **Removing the Receipt Paper**

When receipts with a red line are issued, the register is running out of the receipt paper. Replace the receipt paper roll according to the procedure discribed below.

1) Open the paper cover.
2) Remove the paper core from the paper holder, pull out the release lever and pull the paper core upwards to remove the old paper tail (see **Fig. 4**).

INSTALLING AND REMOVING THE JOURNAL PAPER ROLL

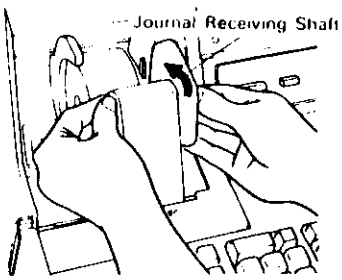


Fig. 5

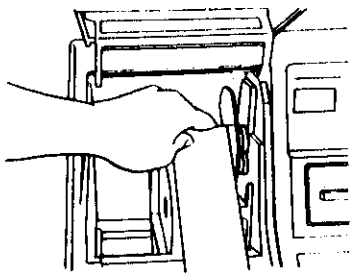


Fig. 6

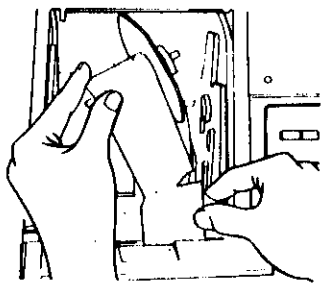


Fig. 7

■ **Installing the Journal Paper Roll**

1) Fold the paper end at a right angle and thread it through the journal paper inlet.
2) Depress the J.F. key until a paper length of about 40 cm is out of the journal paper guide and wind it around the journal receiving shaft two or three turns in the direction of the arrow (see **Fig. 5**).
3) Reinstall the journal receiving shaft in the register (see **Fig. 6**).

■ **Removing the Journal Paper**

When the register is cleared or has run out of the journal paper, remove the journal paper according to the procedure described below.

1) Open the paper cover.
2) Depress the J.F. key until unprinted journal paper appears.
3) Lift up the printed journal paper with the journal receiving shaft and tear the unprinted portion. Do not use scissors to cut the journal paper, so that the torn ends can be matched later, if necessary (see **Fig. 7**).
4) The printed journal roll wound onto the receiving shaft, can be removed, by sliding it off.

WHEN A POWER FAILURE OCCURS

When power is restored, the register will display the last item entered before the power failure if the item was entered through a motorized key (such as [DEPT], media keys, etc.). In this case, contiue the registering operation. However, if the register displays "FAIL" when the power is restored, it indicates that the last item entry was not completed (i.e., only numeric keys or a declaration key such as [RTN MDSE] were operated but not any motorized key). In this case, first depress the [C] key to clear the "FAIL" condition, and then do the registering operation again from the numeric or declaration key entry. In the event of a power failure, be sure to check the receipt before it is handed to the customer.

OPENING AND REMOVING THE DRAWER

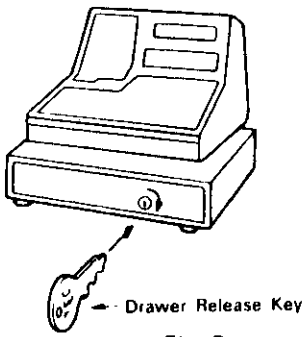


Fig. 8

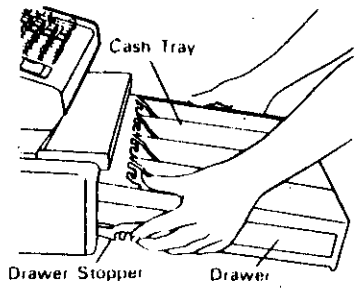


Fig. 9

■ **Opening the Drawer (Fig. 8)**

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

1) Insert the drawer release key into the drawer release lock and turned the key clockwise 45 deg. The drawer will now open.
2) The drawer release key can be taken out by returning it to the original position.

■ **Removing the Drawer (Fig. 9)**

1) To remove the drawer, lift it up by the stoppers attached on both sides and pull it out.
2) When installing the drawer, the rollers on the rails of the register and push it all the way in.
   - The coin case can be removed from the drawer, by lifting it up at the front.

REPLACING THE INK ROLLER

When the receipt and journal paper print is too light, replace the ink roller in the following manner.

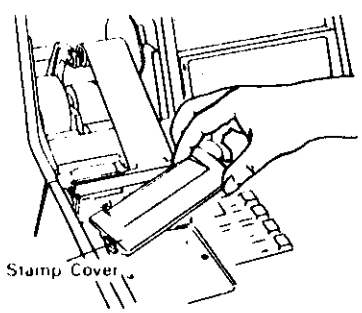


Fig. 10

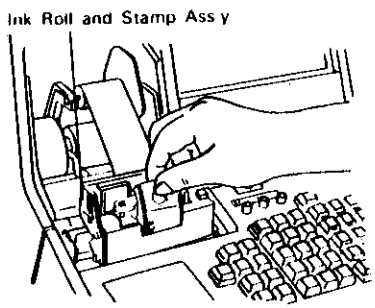


Fig. 11

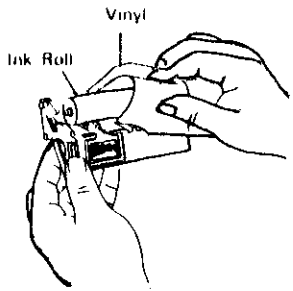


Fig. 12

1) Place the control lock in the LOCK position and remove the stamp cover (see **Fig. 10**).
2) Remove the ink roller holder (see **Fig. 11**).
3) Remove the ink roll (see **Fig. 12**). When removing it, wear a vinyl glove or cover the ink roll with a strip of vinyl sheet to avoid contact with the hands.

REPLENISHING INK

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

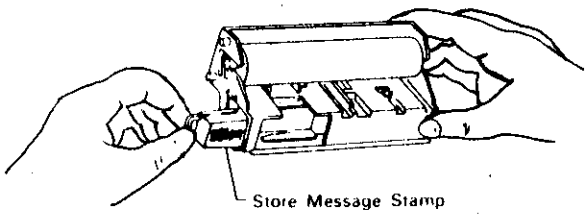


Fig. 13

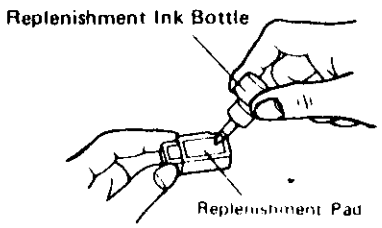


Fig. 14

1) Place the control lock in the LOCK position and remove the stamp cover (see **Fig. 10**).
2) Remove the ink roll holder (see **Fig. 11**).
3) Pull out the store message stamp in the direction of the arrow (see **Fig. 13**).
4) Apply ink to the replenishment pad at the back of the store message stamp. The amount of refilling should be adjusted accoring to the density of the printed message, but the limit of 2 cc should not be exceeded. (The ink bottle supplied contains 5 cc of ink). (see **Fig. 14**).
5) Reassembly is the reverse procedure.

SPECIFICATIONS

Size	460mm(width) x 441mm(depth) x 413mm(height)
Weight	Approx. 23kg
AC power required	AC 117V ±10% 60Hz (Varies depending on each area.)
Power consumed	60W
Size of receipt and journal tape	45mm(width) x 100mm(diam.)
Ambient temperature	0° ~ 40°C, 10 ~ 90% (Relative Humidity)

BEFORE CALLING FOR SERVICE

It is your dealer's primary concern to give full satisfaction and better service to our customers. So if any problems arise in connection with the operation of this cash register , contact your TEC representative listed on this papge. However, before calling for service, please check the following points once again.

☐ In case the register is inoperative with a blank display and the printer will not turn.
- Is the register power switch turned on?
- Is the power cord of the register connected to the wall socket properly?
- Is AC power applied to the outlet? (Plug in a lamp or light fixture to check.)
- Has the fuse blown, or has the circuit breaker been turned off?

☐ In case the receipt does not come out of the receipt outlet.
- Can the red lines on the receipt or journal paper be seen?
  In this case, replace the receipt of journal tape with a new roll immediately.
- The receipt paper is jammed at the receipt cutter. In this case remove the printer cover and check the installation of the receipt paper.

YOUR TEC REPRESENTATIVE: _____

ADDRESS: _____

PHONE: _____

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