## TEC Electronic Cash Register

## **MA-156-1 SERIES**

## Owner's Manual



#### NOTICE

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

#### WARNING

"This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations."

"Cet appareil numénque de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada."

Safety Summary EO1-11099

## **Safety Summary**

Personal safety in handling or maintaining the equipment is extremely important. Warnings and Cautions necessary for safe handling are included in this manual. All warnings and cautions contained in this manual should be read and understood before handling or maintaining the equipment.

Do not attempt to effect repairs or modifications to this equipment. If a fault occurs that cannot be rectified using the procedures described in this manual, turn off the power, unplug the machine, then contact your authorized TOSHIBA TEC representative for assistance.

## Meanings of Each Symbol



This symbol indicates warning items (including cautions). Specific warning contents are drawn inside the  $\triangle$  symbol. (The symbol on the left indicates a general caution.)



This symbol indicates prohibited actions (prohibited items). Specific prohibited contents are drawn inside or near the  $\bigcirc$  symbol. (The symbol on the left indicates "no disassembling".)



This symbol indicates actions which must be performed.

Specific instructions are drawn inside or near the ● symbol.

(The symbol on the left indicates "disconnect the power cord plug from the outlet".)



## **WARNING**

This indicates that there is the risk of **death** or **serious injury** if the machines are improperly handled contrary to this indication.

Any other than the



#### **Prohibited**

■ Do not plug in or unplug the power cord plug with wet hands as this may cause **electric shock**.



■ Do not use voltages other than the voltage (AC) specified on the rating plate, as this may cause **fire** or

electric shock.







■ If the machines share the same outlet with any other electrical appliances which consume large amounts of power, the voltage will fluctuate widely each time these appliances operate. Be sure to provide an exclusive outlet for the machine as this may cause the machines to malfunction.



■ Do not place metal objects or water-filled containers such as flower vases, flower pots or mugs, etc. on top of the machines. If metal objects or spilled liquid enter the machines, this may cause **fire** or **electric shock**.



**Prohibited** 



■ Do not insert or drop metal, flammable or other foreign objects into the machines through the ventilation slits, as this may cause **fire** or **electric shock**.



■ Do not scratch, damage or modify the power cords. Also, do not place heavy objects on, pull on, or excessively bend the cords, as this may cause **fire** or **electric shock**.



Disconnect the plug.



■ If the machines are dropped or their cabinets damaged, first turn off the power switches and disconnect the power cord plugs from the outlet, and then contact your authorized TOSHIBA TEC representative for assistance. Continued use of the machine in that condition may cause fire or electric shock.



## Disconnect the plug.



■ Continued use of the machines in an abnormal condition such as when the machines are producing smoke or strange smells may cause **fire** or **electric shock**. In these cases, immediately turn off the power switches and disconnect the power cord plugs from the outlet. Then, contact your authorized TOSHIBA TEC representative for assistance.

Safety Summary EO1-11099



■ If foreign objects (metal fragments, water, liquids) enter the machines, first turn off the power switches and disconnect the power cord plugs from the outlet, and then contact your authorized TOSHIBA TEC representative for assistance. Continued use of the machine in that condition may cause **fire** or **electric shock**.



Disconnect the plug.



■When unplugging the power cords, be sure to hold and pull on the plug portion. Pulling on the cord portion may cut or expose the internal wires and cause fire or electric shock.



■ Ensure that the equipment is properly grounded. Extension cables should also be grounded. Fire or electric shock can occur on improperly grounded equipment.



■ Do not remove covers, repair or modify the machine by yourself. You may be **injured** by high voltage, very hot parts or sharp edges inside the machine.

Unauthorized modification is prohibited



**CAUTION** This indicates that there is the risk of personal **Injury** or **damage** to objects if the machines are improperly handled contrary to this indication.

#### **Precaution**

The following precautions will help to ensure that this machine will continue to function correctly.

- Try to avoid locations that have the following adverse conditions:
  - \* Temperatures out of the specification
  - Shared power socket

- Direct sunlight
- Excessive vibration
- High humidity
- \* Dust/Gas

- Do not subject the machine to sudden shocks.
- Do not press the keys too hard. Keys will operate correctly if they are touched lightly.
- Clean the cover and keyboard, etc. by wiping with a dry cloth or a cloth soaked with detergent and wrung out thoroughly. Never use thinner or other volatile solvent for cleaning.
- At the end of the day, turn the power OFF, then clean and inspect the exterior of the machine.
- Try to avoid using this equipment on the same power supply as high voltage equipment or equipment likely to cause mains interference.
- USE ONLY TOSHIBA TEC SPECIFIED consumables.
- DO NOT STORE the consumables where they might be exposed to direct sunlight, high temperatures, high humidity, dust, or gas.
- When moving the machine, take hold of the drawer and lift the machine.
- Do not place heavy objects on top of the machines, as these items may become unbalanced and fall causing injury.
- Do not block the ventilation slits of the machines, as this will cause heat to build up inside the machines and may cause **fire**.
- Do not lean against the machine. It may fall on you and could cause injury.

#### **Request Regarding Maintenance**

· Utilize our maintenance services.

After purchasing the machines, contact your authorized TOSHIBA TEC representative for assistance once per year or so to have the inside of the machines cleaned. Otherwise, dust will build up inside the machines and may cause **fire** or **malfunction**. Cleaning is particularly effective before humid rainy seasons.

- Our maintenance service performs the periodic checks and other work required to maintain the quality and performance of the machines, preventing accidents beforehand.
- For details, please consult your authorized TOSHIBA TEC representative for assistance.
- · Using insecticides and other chemicals

Do not expose the machines to insecticides or other volatile solvents, as this will deteriorate the cabinet or other parts or cause the paint to peel.

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#### **CAUTION:**

- 1. This manual may not be copied in whole or in part without prior written permission of TOSHIBA TEC.
- 2. The contents of this manual may be changed without notification.
- 3. Please refer to your local Authorized Service representative with regard to any queries you may have in this manual.



## 1. Introduction

Thank you for choosing the MA-156 series. This instruction manual provides a description of the functions and handling of this register and should be read carefully to ensure optimum performance. Since every consideration has been given to safety and reliability, there is no danger of damaging the machine by incorrect operation.

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

For supplies, service or assistance call:

Please have the following information available when you call:

Product: Electronic Cash Register

Model: MA-156-1

Serial Number:

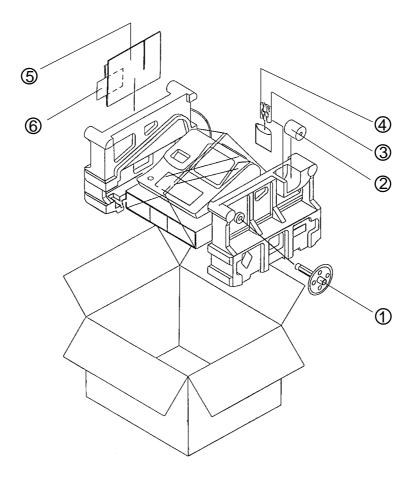
Place Purchased:

Date of Purchase:

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

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

## 2. Unpacking



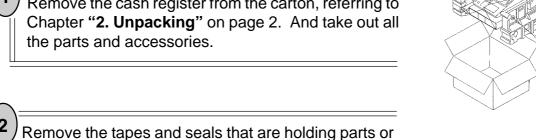
- ① Journal Take-up Reel (1 pc.)② Paper Roll 57 mm x ø50 mm (1 pc.)
- ③ Dry Batteries (SUM-3 1.5V; 3 pcs.)
- ④ Printer Cover/Drawer Key (2 pcs.)
- ⑤ Owner's Manual (1 pc.)
- 6 Warranty Registration Card (1 pc.)

## 3. Outline of Preparation Procedure Before Operating the ECR

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



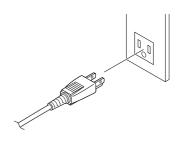
Remove the cash register from the carton, referring to



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

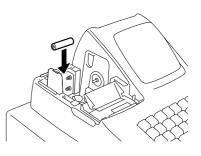
protecting the register surfaces.

WARNING: Be sure to plug in the power cord first, then insert the batteries.

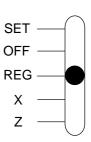


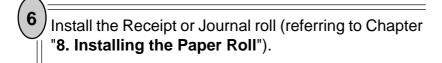
Detach the Printer Cover and the Battery Cover, then insert the batteries (3 pieces). After inserting the batteries, attach the Battery Cover.

WARNING: Be certain to insert the batteries enclosed in the package. If they are not insert and the power is turned OFF (including a power failure occurrence), the sales data and the programmed data will be cleared.



Set the Mode Select Switch to the **REG** position.

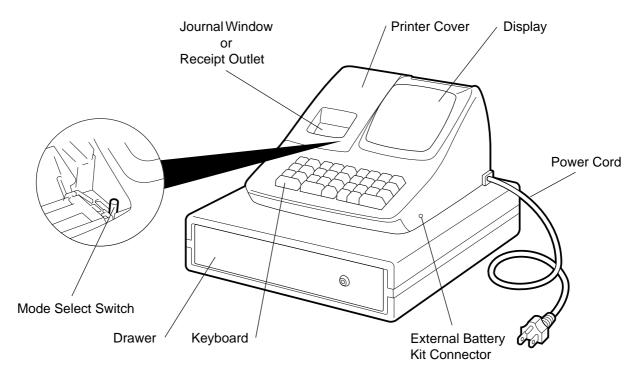






- Set the time and date correctly, referring to "Setting the Time and Date" in Chapter 9.
- Set the tax tables, referring to "Tax Table Setting" in Chapter 9.
- Perform other programming operations, such as programming of Departments, according to the requirement of the market and your store (refer to Chapter 9 and thereafter).

## 4. Appearance and Nomenclature



#### **Printer Cover**

The cover for the Receipt or Journal paper holder and the printer.

#### Receipt Outlet or Journal Window

The receipt for the finalized sale is issued. Or, the operator can see which items have already been entered through this window.

#### **External Battery Kit Connector**

The External Battery Kit (K-BAP-QM) is available as an option. By connecting this kit into the connector, the register is operable without AC power.

#### **Display (Operator and Customer)**

Used to confirm the entry contents and the status of the register. (page 6)

#### **Mode Select Switch**

The Mode Select Switch is provided inside the Printer Cover.

It selects the type of register operations. (page 5)

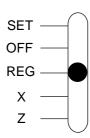
#### Keyboard

Used to enter sale items. (page 7)

#### Drawer

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

## 5. Mode Select Switch



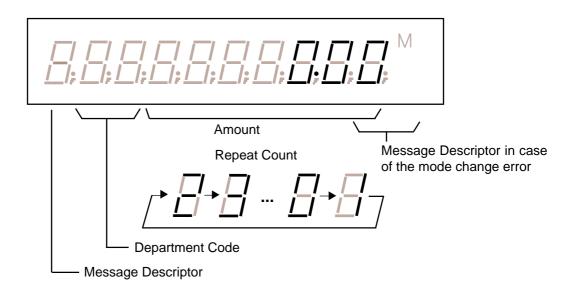
**SET** ......Used to program preset data.

**OFF** ......Stops register operations and extinguishes the display. However, the power is being supplied to the register.

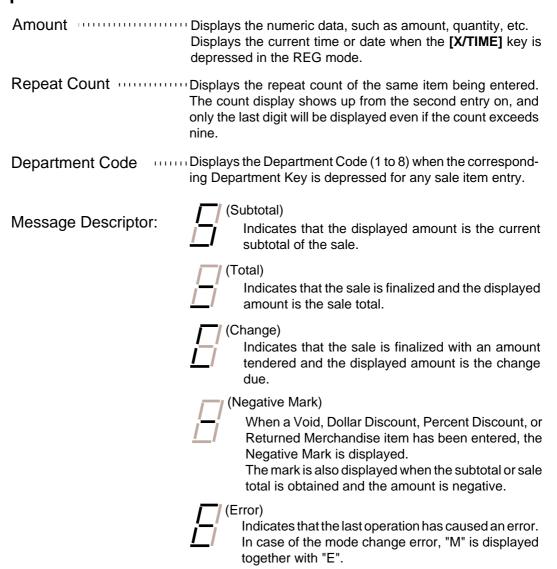
**REG** .....Used to register normal sales .

**Z** ......Used to read and reset sales totals in the register report memory (Z report).

## 6. Display

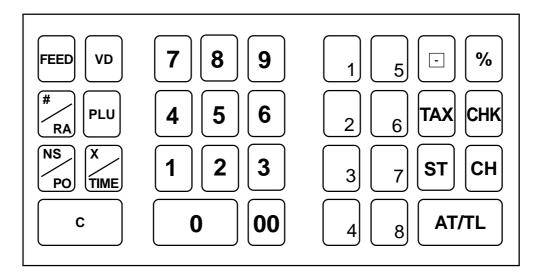


## **Description**



## 7. Keyboard

The following shows the key layout on the MA-156 keyboard:



## **Functions of Each Key**

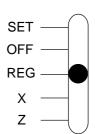
KEY	FUNCTION	
С	Clear Key: Used to clear a wrong entry or operation error.	
X	<b>Multiplication / Time Display Key:</b> Used to enter sale items by multiplication inside a sale. Also used to display the time outside a sale.	
FEED	Feed Key: Used to feed the receipt or journal paper.	
7 8 9 4 5 6 1 2 3 0 00	Numeric Keys: Used to enter numeric data, such as amounts, quantities, and code numbers. The [00] key functions the same as depressing the [0] key twice consecutively.	
1 to 8	Department Keys 1 to 8: Used to enter sale items and process the amount into appropriate departments.	

KEY	FUNCTION	
TAX	Tax Modifier: Used inside a sale to reverse the Tax status of departments, PLUs, Dollar Discount, and Percent Charge/Discount from taxable to non-taxable, or vice versa.  Percent Charge or Discount Key: Used to add or subtract a percent rate, preset or manually entered, to or from the sale or an individual sale item. Whether the key is used as Percent Charge or Percent Discount can be programmed.	
%		
ST	<b>Subtotal Key:</b> Used to obtain a subtotal (sale total amount up to the moment).	
СН	Charge Key: Used to finalize a sale as charge (non-cash media sales, such as house charge, credit cards, etc. defined by the store) by a simple depression without any numeric entry (Total Function only).  Cash Amount Tender / Total Key: Used to finalize a sale as cash by depressing with a prior tendered amount entry (Tender Function) or by a simple depression without any numeric entry (Total Function).  Check Amount Tender/Total Key: Used to finalize a sale as check by depressing with a prior tendered amount entry (Tender Function) or by a simple depression without any numeric entry (Total Function).  Returned Merchandise/Void Key: Used inside a sale to delete items already entered in the current sale. When outside a sale, it is used to refund money to a customer who has returned items already purchased.	
AT/TL		
СНК		
VD		
#_RA	Non-add Number Print/Received-on-Account Key (X Mode): When depressed with a prior number entry, it function as Non-add Number Print Key. When used in X mode, it functions to record received-on-account payment amounts.	
No-sale/Paid Out Key (X Mode): Used outside a open the drawer without relating to a sale. When us mode, it functions to record amounts paid out of the without relating to a sale.		
PLU	PLU (Price-Look-Up) Key: Used to enter a PLU which is linked to a department.	
	<b>Dollar Discount Key:</b> Used to subtract an amount from the sale such as a discount.	

## 8. Installing the Paper Roll

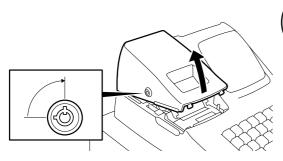
#### WARNING!

Care must be taken not to injure yourself with the paper cutter.



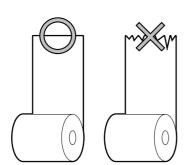


Set the Mode Select Switch to **REG** positon.



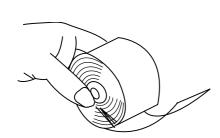
2

To remove the Printer Cover, insert the Printer Cover/Drawer Key to the Printer Cover Lock, and then Turn it 90° clockwise.



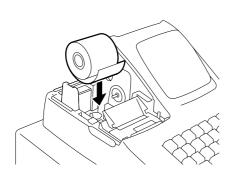


Cut the paper end to make it sharp.



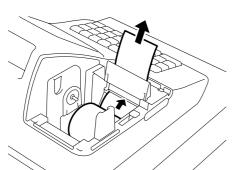


Hold the paper roll so that the paper end will be fed from the bottom.



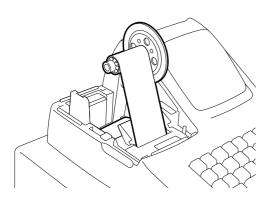


Place the paper roll in the paper pocket.



**(6**)

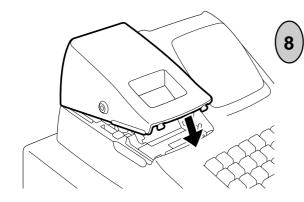
Insert the paper end into the Paper Inlet located on the rear side of the printer, and hold down the **[FEED]** key on the keyboard until the paper end comes out of the outlet.



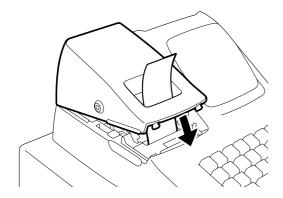
7

If the printer is used for journal, fold the top end of the paper and insert the folded end into the slit of the Take-up Reel. Then wind the paper two or three times, set the reel to the holder, and hold down the **[FEED]** key for a while to tense the paper.

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



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



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

## 9. Programming

The time and date should be adjusted and such data as status of each department, percent rate, etc. should be programmed before starting sale entries. Printing occurs as programming is proceeded.

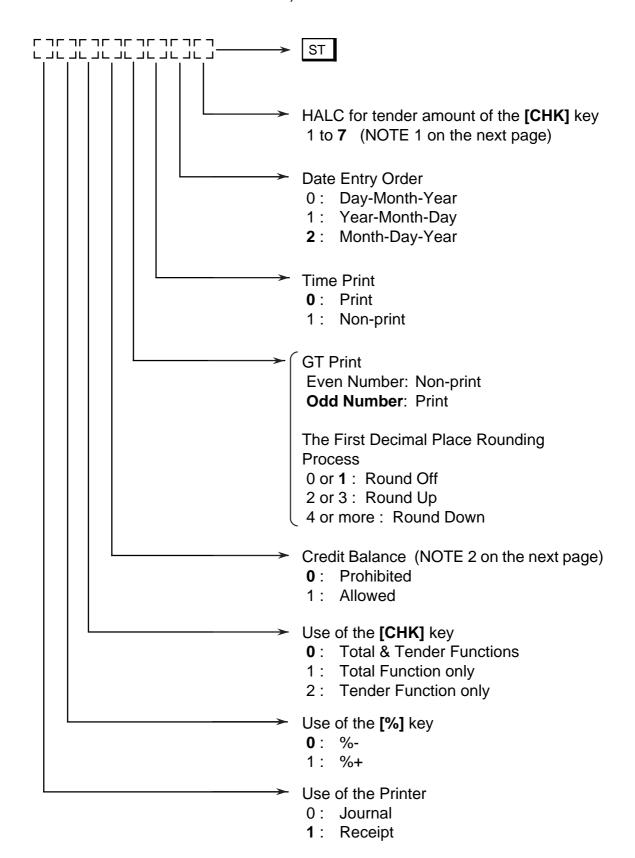
- The programmed data will be retained by dry batteries even if the power of the machine is turned OFF or a power failure occurs.
- Set the Mode Select Switch to the **SET** position before starting any programming operation.
- Key indications in the operation patterns in this manual:



Entry through a Numeric Key	Function Key depression
, , ,	

## **System Option Setting**

(Available after the Financial Reset (Z) Report is taken.)



- **NOTES:** 1. HALC (High Amount Listing Capacity) is used to check excessively high amounts entered by mistake. For example, if "3" is entered, it means 3 digits and the high amount limit is 999 (\$9.99).
  - 2. Credit Balance means that amount entries through the [-] key will result in over-subtraction of the subtotal amount at the time of the entry through this key. If the status "Allowed" is selected, over-subtraction using the [-] key will be allowed. The [VD] key is not subject to this "Credit Balance" status selection.
  - 3. Numeric values in bold face are those of the initial setting.

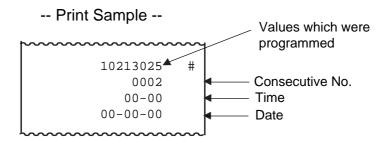
## Sample Programming Operation

To set the following system options:

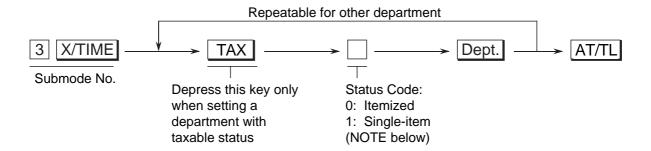
- The printer is used for receipts: 1
- The [%] key is used as the [% -] key: 0
- The [CHK] key is used for "Tender" function only: 2
- Credit Balance is allowed: 1
- GT Print (Print) & The First Decimal Place Rounding Process (Round Up): 3
- Time is printed: 0
- Date Entry Order (Month-Day-Year): 2
- Tender amount through the [CHK] key is allowed up to 5 digits (\$999.99): 5

#### **Key Operation**)

1 0 2 1 3 0 2 5 ST



## **Department Status Setting**



NOTES: 1. When a department is set to be an "Itemized" department, a sale item entry through that Department Key will not immediately finalize the sale and will allow other item entries until a media key ([AT/TL], [CHK] or [CH]) is operated.

When a department is set to be a "Single-item" department, a sale item entry through that Department Key will immediately finalize the sale as cash and issue a receipt if it is operated outside a sale. However, when a Single-item department is operated during a sale, it functions the same as an Itemized department.

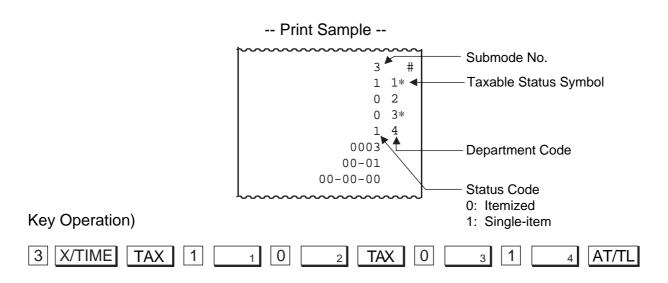
2. Initial setting is as follows.

All departments ...... Non-taxable & Itemized status

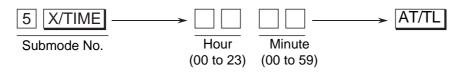
#### Sample Programming Operation

To set the following department status:

- Department 1 ...... Taxable & Single-item
- Department 2 ..... Non-taxable & Itemized
- Department 3 ..... Taxable & Itemized
- Department 4 ..... Non-taxable & Single-item

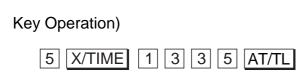


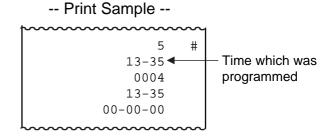




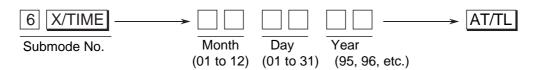
## Sample Programming Operation

To set the time to 13:35 (1:35 p.m):





## **Date Setting**



**NOTE:** The date entry order above shows the initial set order. The entry order of Day-Month-Year or Year-Month-Day can be selected instead of Month-Day-Year by the System Option Setting described in page 12.

## Sample Programming Operation

To set the date to October 3, 1995:

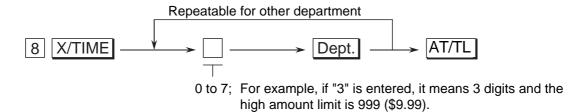
## **Key Operation**)

6 X/TIME 1 0 0 3 9 5 AT/TL

#### 

## **Department HALC Setting**

The HALC (High Amount Listing Capacity) is used to check excessively high amounts entered by mistake. By setting HALCs, such mistakes will be prevented at the earliest stage.



NOTE: Initial setting is as follows.

All departments....... Price entry up to 7 digits (\$99999.99) is allowed.

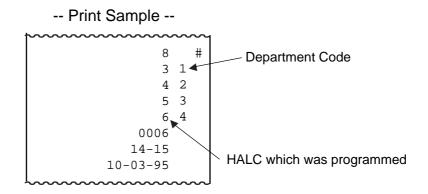
## **Sample Programming Operation**

To set the following department HALCs:

- Department 1 ..... 3 digits
- Department 2 ..... 4 digits
- Department 3 ..... 5 digits
- Department 4 ..... 6 digits

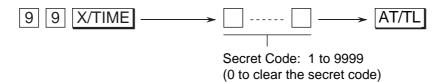
## **Key Operation)**





## **Secret Code Setting**

When this code is set, operations in the "Z" mode will be prohibited without this code entry.

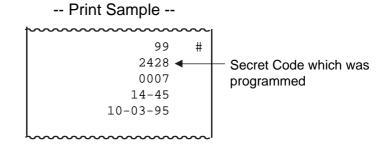


## Sample Programming Operation

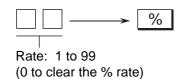
To set a secret code of 2428:

## Key Operation)



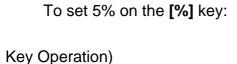


## % Rate Setting

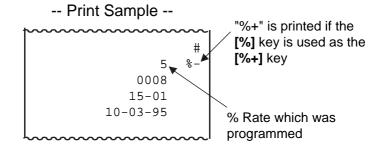


**NOTE:** Whether the % key is used as the function of %+ or %- is determined by the System Option Setting described in page 12.

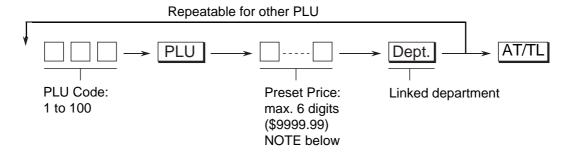
## Sample Programming Operation



5 %



## **PLU Setting**



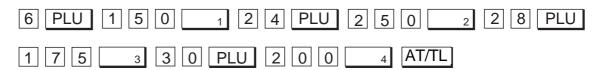
**NOTE:** When 0 is entered as a preset price in above key sequence, the preset price of \$0.00 will be programmed.

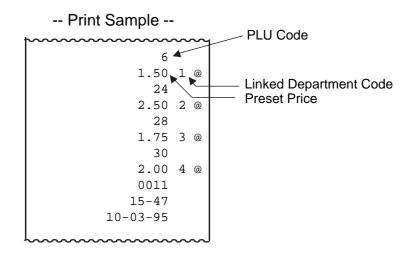
## Sample Programming Operation

To set the following PLUs:

- PLU 6 (Preset Price: \$1.50, Linked Department: Department 1)
- PLU 24 (Preset Price: \$2.50, Linked Department: Department 2)
- PLU 28 (Preset Price: \$1.75, Linked Department: Department 3)
- PLU 30 (Preset Price: \$2.00, Linked Department: Department 4)

## **Key Operation)**





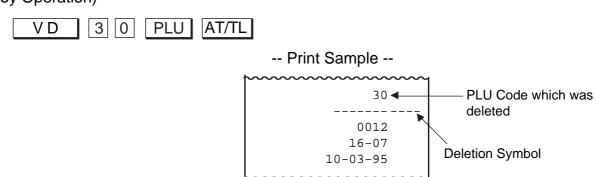
## **PLU Deletion**

# Repeatable for other PLU to be deleted VD → PLU AT/TL PLU Code: 1 to 100

## Sample Programming Operation

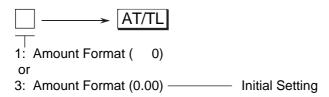
To delete the PLU Code 30 which was programmed in the preceding page:

## **Key Operation)**



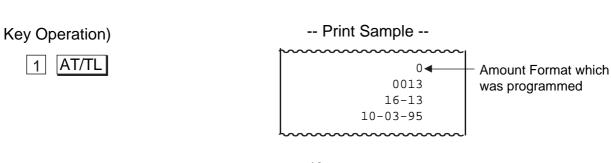
## **Amount Format Setting**

This operation determines the Amount Format for display and print.



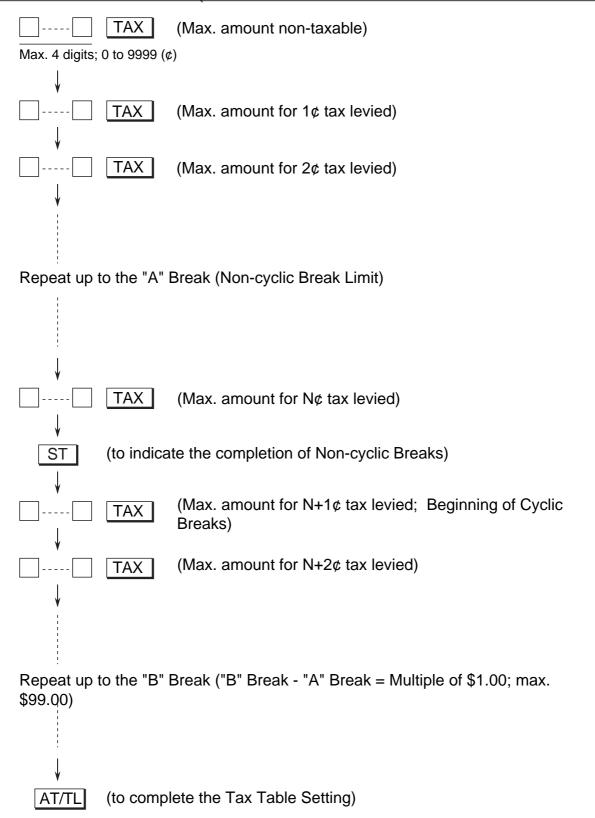
## Sample Programming Operation

To set the Amount Format of " 0":



## **Tax Table Setting**

## TYPE 1: TAX FULL BREAKS (COMBINATION OF NON-CYCLIC AND CYCLIC BREAKS)



**NOTE:** A maximum of 32 breaks can be programmed for the tax table.

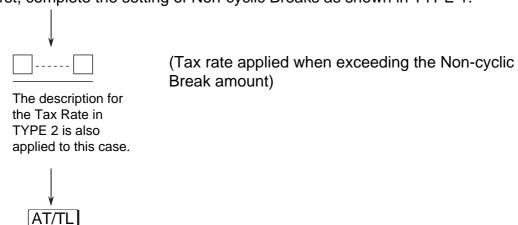
#### TYPE 2: TAX % ONLY

$$\begin{array}{c|c}
\hline
0 \longrightarrow \text{TAX} \longrightarrow \text{ST} \longrightarrow & \hline
\\
\hline
\text{max. 5 digits; 0.001% to 99.999%} \\
\text{NOTE below}
\end{array}$$

- **NOTES:** 1. As for a numeric value to be entered, be certain to include down to three decimal places. For example, to set 4%, enter "4000".
  - 2. % Calculation Fraction Rounding Process for Tax is fixed to "Round Off".

## TYPE 3: COMBINATION OF NON-CYCLIC BREAKS AND % RATE

First, complete the setting of Non-cyclic Breaks as shown in TYPE 1.



#### Sample Programming Operation

**TYPE 1: TAX FULL BREAKS** 

To set the following Tax Break Table:

Breaks	Tax	Amount Difference from Previous Break	
\$0.01 to \$0.10	0¢		
\$0.11 to \$0.21	1¢	\$0.10	Non-cyclic Breaks
\$0.22 to \$0.35	2¢	\$0.11	
\$0.36 to \$0.50	3¢	\$0.14	
\$0.51 to \$0.64	4¢	\$0.15	
\$0.65 to \$0.78	5¢	\$0.14	One cycle of
\$0.79 to \$0.92	6¢	\$0.14	Cyclic Breaks
\$0.93 to \$1.07	7¢	\$0.14	
\$1.08 to \$1.21	8¢	\$0.15	Cyclic Breaks
\$1.22 to \$1.35	9¢	\$0.14	Cyclic bleaks
\$1.36 to \$1.50	10¢	\$0.14	
			The same cycle
			repeats.

## Key Operation)

1 0 TAX

2 2 TAX

3 5 TAX

ST

5 0 TAX

6 4 TAX

7 8 TAX

9 2 TAX

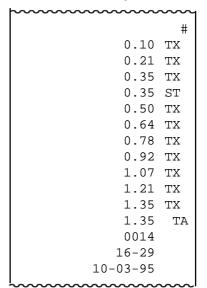
1 0 7 TAX

1 2 1 TAX

1 3 5 TAX

AT/TL

## -- Print Sample --



#### TYPE 2: TAX % ONLY

To apply 15% to any amount:



TYPE 3: COMBINATION OF NON-CYCLIC BREAKS AND % RATE

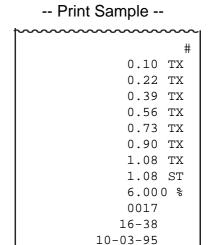
To set the following Tax Break Table:

To set the following	lax bicak i	abie. 	-
Breaks	Tax	Amount Difference from Previous Break	
\$0.01 to \$0.10	0¢		
\$0.11 to \$0.22	1¢	\$0.10	
\$0.23 to \$0.39	2¢	\$0.12	
\$0.40 to \$0.56	3¢	\$0.17	Non-cyclic Breaks
\$0.57 to \$0.73	4¢	\$0.17	
\$0.74 to \$0.90	5¢	\$0.17	
\$0.91 to \$1.08	6¢	\$0.17	
		<u>.                                    </u>	1/

% Rate of 6%

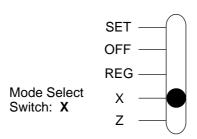
## Key Operation)

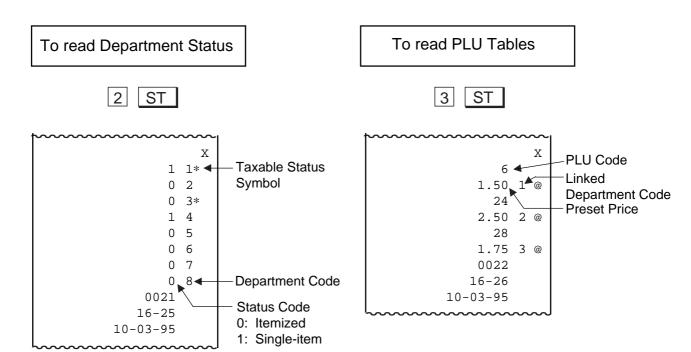
1 0 TAX
2 2 TAX
3 9 TAX
5 6 TAX
7 3 TAX
9 0 TAX
1 0 8 TAX
ST
6 0 0 0 AT/TL

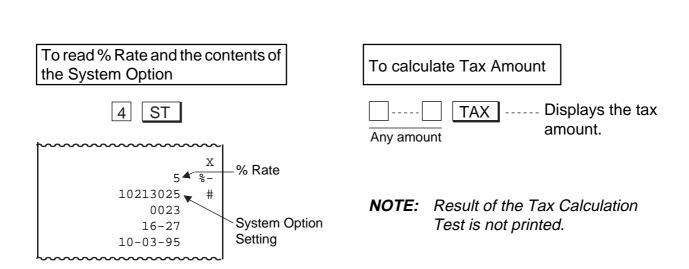


## 10. Verification of Programmed Data

The set data of the programming operations can be verified by the following operations. A receipt is issued for each operation.







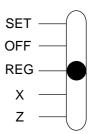
## 11. Daily Operation Flow

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

Before Opening the Store	e	Reference <u>Page</u>
	<ul> <li>Ensure that the register is firmly plugged in the wall outlet.</li> </ul>	3
	<ul> <li>Check to see if sufficient portion of paper roll remains.</li> </ul>	9
	<ul> <li>Check the time, and print condition.</li> </ul>	26, 27
During Business Hours		
TITA	Opening the store	
	Ordinary transaction entries	27
	<ul> <li>Received-on-Account and Paid Out transactions</li> </ul>	35
OPEN	<ul> <li>Taking Read (X) Report.</li> </ul>	36
	Closing the store	
After Closing the Store		
I	<ul> <li>Taking Reset (Z) Report</li> </ul>	36
* ) *	<ul> <li>Tear off the print portion of Journal Paper (if the printer is used for journal recording).</li> </ul>	39
*	<ul> <li>Leave the drawer open, and Set the Mode Select Switch to OFF.</li> </ul>	40
	<ul> <li>Take all the cash from the drawer to the office with the journal and Reset (Z) Re- port.</li> </ul>	40

## 12. Transaction Entries

If the register is programmed with all requirements, it is ready to accept transaction entries. Before starting to enter transactions, set the Mode Select Switch to the **REG** position.



#### **WARNING!**

When opening the cash drawer, be careful not to let the drawer hit any person.

## When an error has occurred...

When the buzzer sounds continuously and "E" is indicated in the leftmost digit of the display, the last operation has caused an error and the keyboard is locked. In that case:

Press the C key to cancel the error condition and the keyboard is now operable.

This function of the **[C]** key is also applied to operations in other Mode Select Switch positions.

If errors occur repeatedly on operating the same key sequence, check the cause of the error. The following are possible causes of error:

- The Mode Select Switch position is wrong.
- The numeric value entered exceeds the high amount limit.
- A numeric value has not been entered where required.
- A numeric value has been entered where prohibited.
- The key sequence is wrong, or a wrong key has been pressed.
- The operation is not allowed at the current timing.

## Displaying the Time

The time can be displayed on the register any time when the register is outside a sale.

X/TIME ..... Displays the current time.

 hour	minute
/ <u>                                    </u>	- / /

The time display will disappear when any key excluding the **[FEED]** key is pressed on the keyboard or the Mode Select Switch position is changed.

## No-sale

The No-sale transaction is used to open the drawer without relating to a sale, for such purposes of money exchanges, checking the print condition on the paper roll, etc.





**NOTE:** The Price entry is possible up to 7 digits. However, it is limited by the Department HALC (High Amount Listing Capacity).

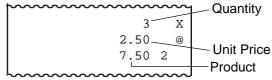




**NOTE:** Depress again the Department key that has been depressed for one item entry. The item entry will be repeated as many times as the key is depressed.

## 3) Quantity Extension (Multiplication)



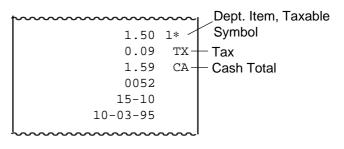


NOTE: The product (obtained by multiplication) must not exceed 7 digits.

## 4) Single-item Department

If a Department Key is programmed with Single-item status, any entry through the key will immediately finalize the sale as cash without operating any media key.

The operation is the same as ordinary itemized Department keys already described (Entry of One Item, Quantity Extension), except that Repeat Entry is not possible using a Single-item Department key.



## **5) Tax Modification** (applicable to Add-on Tax Feature)

Each department is programmed with its own Tax status (Non-taxable, or Taxable). To reverse the Tax status (from taxable to non-taxable, or vice versa), depress the following key before or during the required department item entry (before the Department Key, at the latest). (Refer to **Entry of One Item, Repeat Entry, Quantity Extension**.)

TAX ... to reverse Tax status

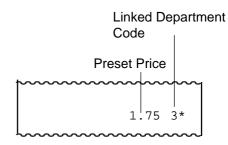
# **NOTES:** 1. The tax-modified status declared by the Tax Modifier key will be held until another item is entered. The modified status is held even when the item is repeated.

2. When a Department item is tax-modified and repeated and the same item (with the same price and department) must still be entered consecutively within a sale with the original tax status regained, depress the [C] key before entering original tax-status item.

Sale Item Entries (PLU Entries)

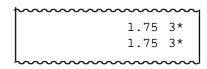
1) Entry of One Item

PLU Code: 1 to 100



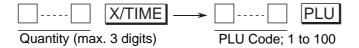
2) Repeat Entry

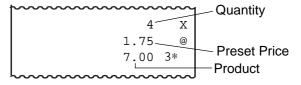
PLU Code; 1 to 100 Same PLU Key



**NOTE:** Depress again the PLU key that has been depressed for one item entry. The item entry wil be repeated as many times as the key is depressed.

## 3) Quantity Extension (Multiplication)



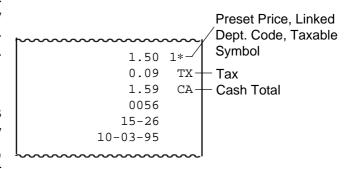


**NOTE:** The product (obtained by multiplication) must not exceed 7 digits.

## 4) Single-item PLU

If a PLU is linked to a Department with Single-item status, the entry of this PLU will immediately finalize the sale as cash without operating any media key.

The operation is the same as ordinary itemized PLU already described (Entry of One Item, Quantity Extension), except that Repeat Entry is not possible using a Single-item PLU.



#### 5) Tax Modification (applicable to Add-on Tax Feature)

Tax status (Non-taxable, or Taxable) for each PLU is determined by that of the linked Department. To reverse the Tax status (from taxable to non-taxable, or vice versa), depress the following key before or during the required PLU item entry (before the PLU Entry, at the latest). (Refer to **Entry of One Item, Repeat Entry, Quantity Extension**.)

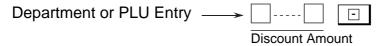
TAX ... to reverse Tax status

# **NOTES:** 1. The tax-modified status declared by the Tax Modifier key will be held until another item is entered. The modified status is held even when the item is repeated.

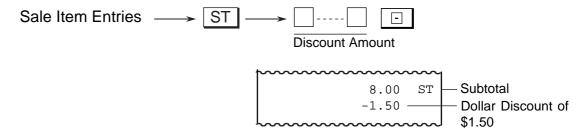
 When a PLU item is tax-modified and repeated and the same item must still be entered consecutively within a sale with the original tax status regained, depress the [C] key before entering original tax-status item.

#### **Dollar Discount**

## 1) Dollar Discount on a Department Item or a PLU Item



#### 2) Dollar Discount on Subtotal

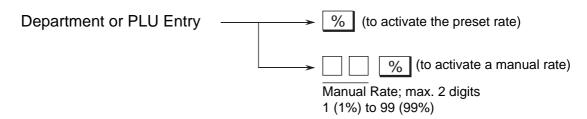


**NOTE:** The discount amount must not exceed the item amount or the subtotal unless the "Credit Balance" option is selected.

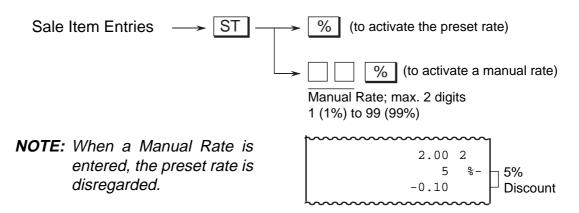
## **Percent Discount or Percent Charge**

The [%] key can be programmed to function Percent Discount or Percent Charge.

#### 1) Percent Discount/Charge on a Department Item or a PLU Item



## 2) Percent Discount/Charge on Subtotal

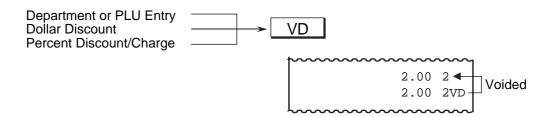


Void

Sale items once entered within the current sale can be voided.

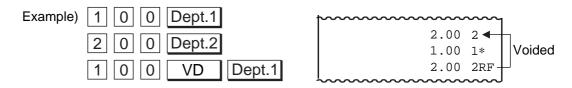
#### 1) Last Line Voiding

When the last line item (that has just been entered within the current transaction) is a Department item, a PLU item, Dollar Discount item, or Percent Discount/Charge item, it can be voided by simply pressing the **[VD]** key.



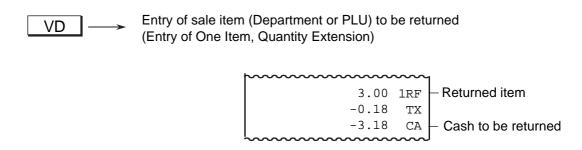
#### 2) Designated Line Voiding

When a Department or a PLU item entered before the last item is canceled before the sale is finalized, it can be voided. To operate it, follow the ordinary Department or PLU entry procedure (**Entry of One Item**, **Quantity Extension**) except that the **[VD]** key is depressed just before the Department or PLU key depression.



#### **Returned Merchandise**

The Returned Merchandise transaction is used to refund money to a customer who has returned items already purchased. This operation must be performed <u>outside</u> <u>a sale only</u>.



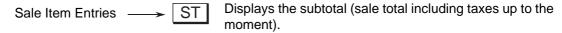
#### **Non-add Number Print**

This function is to print any code number for future reference, such as Customer No., Credit Card No., House Charge Account No., etc. Non-add numbers can be entered at the starting of a sale or during a sale if the sale is not finalized. Multiple non-add numbers can be entered in a sale.

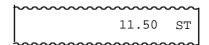


#### **Subtotal Read and Print**

To read the total of the current sale by the customer's request or the operator's requirement, simply depress the **[ST]** key.

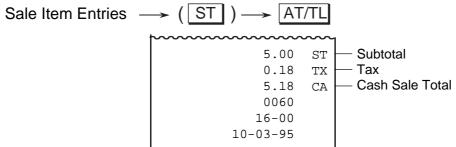


**NOTE:** The subtotal amount to be printed is the pre-taxed sale total.

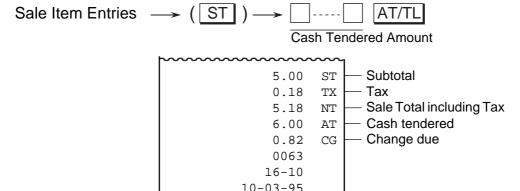


#### Finalizing a Sale

#### 1) Cash Total

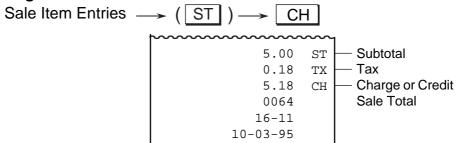


#### 2) Cash Tender

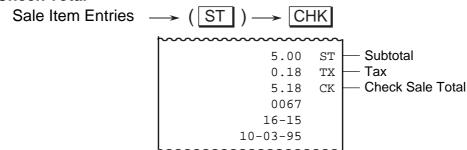


**NOTE:** The sale is finalized as in the sample receipt above when the tendered amount is equal to or larger than the sale total (including taxes). When the tendered amount is smaller than the sale total (short-tendered), the balance due is displayed and the sale is not finalized. In such cases, refer to "6) Multi-tender" and "7) Split Tender" on the page 34.

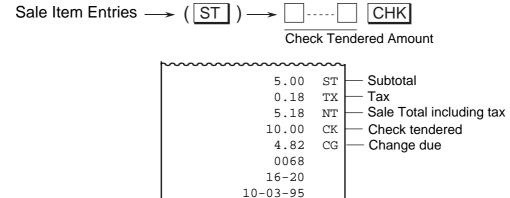
#### 3) Charge or Credit Total



#### 4) Check Total



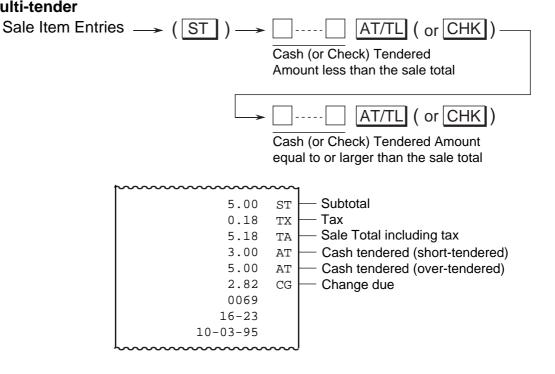
#### 5) Check Tender



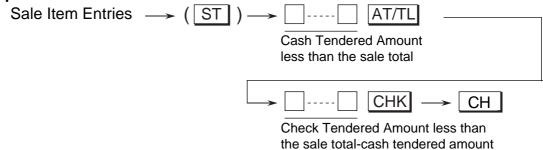
**NOTE:** The System Option Setting allows you to select the following functions of the **[CHK]** key.

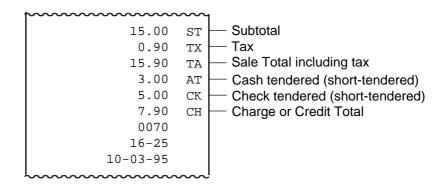
- Total & Tender functions
- Total function only
- Tender function only

#### 6) Multi-tender



#### 7) Split Tender





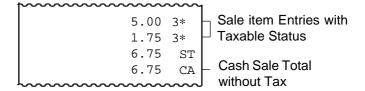
#### NOTES: 1. A maximum of 7 digits can be entered as Tendered Amount (up to \$99999.99).

2. When the sale total is zero or negative, the sale can only be finalized by Cash Total function.

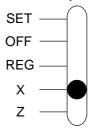
#### **Tax Exemption**

The Tax Exemption transaction is used to exempt all taxes from the sale total.

Sale Item Entries  $\longrightarrow$  (ST)  $\longrightarrow$  TAX  $\longrightarrow$  Finalizing a sale



The following operations require the **X** position of the Mode Select Switch.



#### **Received-on-Account Payment**

(Mode Select Switch: X)

The Received-on-Account transaction is used to identify money which is in the drawer but not due to business. For example, a customer pays for a sale finalized as house charge on a past day, or the operator records the change reserve in the drawer loaded from the store office. This operation must be performed <u>outside a sale only</u>.

#/RA The drawer opens to enable money entry into the drawer.

Payment Amount Received;
max. 7 digits (up to \$99999.99)

Paid Out (Mod

(Mode Select Switch: X)

The Paid Out transaction is used when an amount of money is removed from the drawer without relating to a sale, for the purpose of paying to a wholesaler, etc. This operation must be performed <u>outside a sale only</u>.

Amount to be paid out;
max. 7 digits (up to \$99999.99)

NS/PO

The drawer opens to enable paying out.

### 13. Read (X) and Reset (Z) Reports

This Chapter describes the operation to take Read and Reset reports and their print formats.

#### Before Taking Reports...

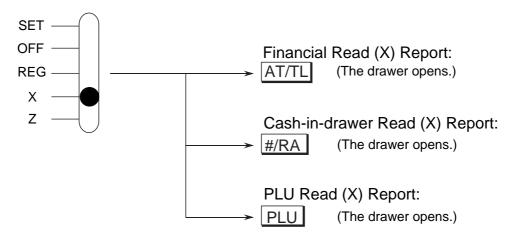
- The Read (X) Report allows to read the totals but not clear the memory, while the Reset (Z) Report allows to read the totals and, at the same time, clear all the resettable totals when the report has been issued.
- The symbol "X" is printed at the top right of a Read Report, while "Z" is printed on a Reset Report to indicate the type of report. The contents of the two types of reports are the same if both are taken at the same time.

#### **WARNING!**

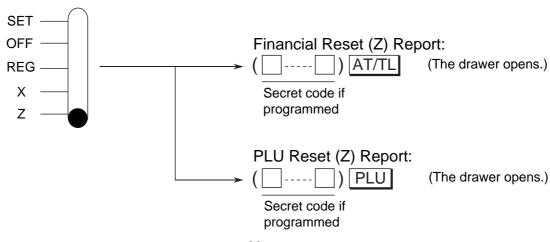
When opening the cash drawer, be careful not to let the drawer hit any person.

#### **OPERATION**

#### Read (X) Report



#### Reset (Z) Report



#### **Memory Balance**

Grand Total = (Sum of Gross Sale)

Gross Sale = (Depts. Total) + (Tax Amount) + (Returned Merchandise & Designated Line Voiding) + (Last Line Voiding) + (%+)

NOTE 1

NOTE 2

Net Sale with Tax = (Depts. Total) + (Tax Amount) + (%+)NOTE 2

Media Total = (Cash Sales) + (Check Sales) + (Charge Sales) = (Net Sale with Tax) - (%-) - (Dollar Discount)

NOTE 3

Customer Total = (Cash Sales Customer) + (Check Sales Customer) + (Charge Sales Customer)

Returned Merchandise & Designated Line Voiding

= (Returned Merchandise & Designated Line Voiding) + (Negative Tax Amount) NOTE 4

- **NOTES:** 1. The void transaction of %- and Dollar Discount is not processed to the Void Memory. However, the void transaction of %+ is processed to its memory.
  - 2. In case that the [%] key is used as the [%+] key.
  - 3. In case that the [%] key is used as the [%-] key.
  - 4. "Negative Tax Amount" means a tax amount to be returned to a customer with an amount of a returned item.

#### Report Sample Format

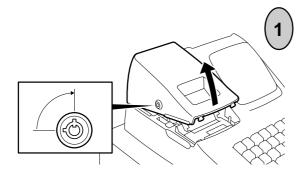
#### Financial Report Cash-in-drawer Report Reset Report Symbol ("X" for Read Report) Χ 257.06 Grand Total (non-resettable) 52.76 \*TA Cash-in-drawer 28 Gross Sale: Item Count 0090 Amount 83.06 Amount 19-05 Dept. 1 Sale: Item Count 4 1 10-03-95 8.20 Amount 7 2 29.00 2 3 3.50 PLU Report 2 4 3.20 2 5 5.50 PLU Code 6 6 5 6 3 Sales: Count 16.30 4.50 Amount 2 7 24 4.80 4 Dept. 8 Sales: Item Count 1 8 10.00 1.00 Amount 28 1.96 Tax Total TX7 Net Sale with Tax: Item Count 25 12.25 73.46 Amount PLU Code 30 NS 30 %- Count 1 Sales: Count 0.90 Amount 2.00 Amount 4 **Dollar Discount** 0002 Reset Counter Amount 6.50 0092 16 **Total Customer Count** 19-10 Media Total 66.06 NT10-03-95 Cash Sales: Customer Count 12 34.75 CA Amount 1 Check Sales: Customer Count 5.41 **Amount** CK Charge or Credit Sales: Customer Count 3 25.90 СН Amount 3 Received-on-account Count 32.60 Amount RA Paid Out Count 1 10.00 Amount PO 52.76 \*TA Cash-in-drawer Amount 10.00 \*CK Check-in-drawer Amount 1 Last Line Voiding Count 3.60 VD Amount 2 Returned Merchandise & Designated Line Voiding: Item Count, Amount 6.00 RF 0003 **Reset Counter** 0096 Consecutive No. 19-20 Time Date 10-03-95

#### 14. Maintenance

#### **WARNING!**

Care must be taken not to injure yourself with the paper cutter.

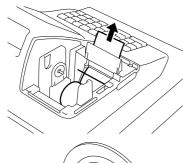
#### **Replacing the Paper Roll**



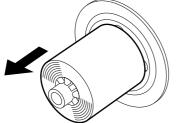
To remove the Printer Cover, insert the Printer Cover/Drawer key to the Printer Cover Lock, and then turn it 90° clockwise.



If the printer is used for Journal, hold down the **[FEED]** key to wind up the printed portion of paper, then cut the paper as shown in the figure. Hold down the **[FEED]** key again to advance the remaining paper end.



If the printer is used for Receipt, cut the paper roll as shown in the figure. Then hold down the **[FEED]** key to advance the remaining paper end.

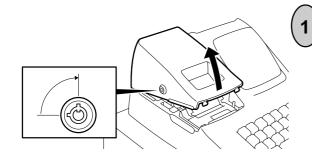


The wound-up portion of the paper (when used for Journal) can easily be removed from the Reel by pulling it sideways.

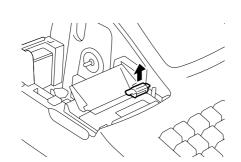


Set the paper roll ready for print. *Refer to Chapter "8. Installing the Paper Roll".* 

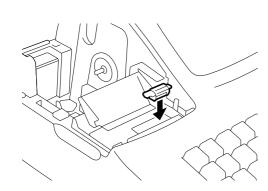
### Replacing the Ink Roller



To remove the Printer Cover, insert the Printer Cover/Drawer key to the Printer Cover Lock, and then turn it 90° clockwise.

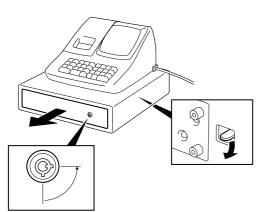


Pinch the Ink Roller Knob with your fingers, and pull it upward.



Insert the new Ink Roller in the slot of the carriage by pushing it all the way in until it is firmly settled with a "click" sound.

#### **Manual Drawer Release**

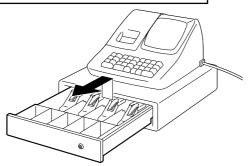


The drawer will automatically open on appropriate operations. However, in the event of a power failure, etc., the drawer can be released manually.

First, insert the Printer Cover/Drawer Key to the Drawer Key Lock, then turn it 90° counter-clockwise.

Next, push the Drawer Release Lever located on the bottom side of the register in the direction of the arrow, and the drawer opens.

### **Removing the Drawer**



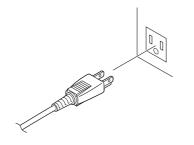
Pull out the drawer all the way until it hits the stopper. Then lift up the drawer and pull it again.

#### WARNING!

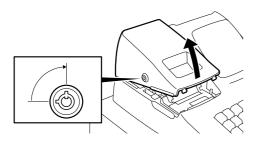
When opening the cash drawer, be careful not to let the drawer hit any person.

### **Battery Exchange**

WARNING: Be certain to replace batteries with new ones every year. If they run down, the programmed data and sales data will all be cleared.

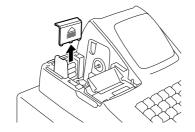


To exchange batteries, please keep the power cord of the register connected to the wall outlet. If the batteries are removed with the power cord disconnected, the programmed data and sales data will all be cleared.



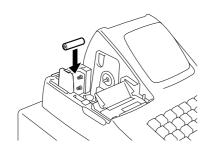


To remove the Printer Cover, insert the Printer Cover/Drawer key to the Printer Cover Lock, and then turn it 90° clockwise.





Remove the Battery Cover.





Replace the old batteries with new ones, while confirming that the positive (+) and negative (-) ends face the proper directions. (Batteries: SUM-3 1.5V x 3 pieces)

**NOTE:** Do not mix used and new batteries in the battery compartment.



Return the item removed in Step 3, and attach the Printer Cover.

## 15. Specifications

Size ...... 350 mm (width) x 400 mm (depth) x 250.8 mm

(height including rubber feet)

Weight ...... 4.76 kg

Power Required ...... 117V±10%, 60Hz

Power Consumed...... 0.08A

Operating Temperature ..... 0°C to 40°C

Operating Humidity ...... 10% to 90% RH

Size of Paper Roll ............ 57.5±0.5mm (width) x max. 80mm (diameter),

0.06 to 0.085mm (thickness)

Memory Protection ........... Dry Battery SUM-3 1.5 V x 3 pieces;

Life of about 1 year

(Be certain to replace batteries with new ones every

year.)

#### Handling the Batteries

- When inserting batteries, place them so that the positive (+) and negative
   (-) ends face the proper directions as shown in the battery compartment.
- Do not mix used and new batteries in the battery compartment. Replace all batteries at the same time.
- Do not leave discharged batteries in the battery compartment. Leakage from such batteries may damage the register.
- Do not dispose the batteries in a fire. If put in a fire, they may explode.

Specifications are subject to change without notice.





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