

SHARP®

English

ELECTRONIC CASH REGISTER
CAISSE ENREGISTREUSE
ELECTRONIQUE

MODEL
MODELE **ER-A247**
ER-A247A

INSTRUCTION MANUAL
MANUEL D'INSTRUCTIONS



In U.S.A.:

WARNING

FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Note: 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.

WARNING

Shielded interface cables must be used with this equipment to maintain compliance with EMC regulations.

AVERTISSEMENT

Les câbles d'interface blindés doivent être utilisés avec cet équipement pour maintenir la conformité aux normes EMC.

CAUTION

The AC power socket-outlet should be installed near the equipment and should be easily accessible.

ATTENTION

La prise de courant murale devra être installée à proximité de l'équipement et être facilement accessible.

FOR YOUR RECORDS

Please record below the model number and serial number for easy reference in case of loss or theft. These numbers are located on the right side of the unit. Space is provided for further pertinent data.

Model Number _____

Serial Number _____

Date of Purchase _____

Place of Purchase _____

INTRODUCTION

Thank you very much for your purchase of the SHARP Electronic Cash Register, Model ER-A247/ER-A247A. Please read this manual carefully before operating your register in order to gain full understanding of functions and features.

Please keep this manual for future reference. It will help you if you encounter any operational problems.

IMPORTANT

- Be careful when removing and replacing the printer cover, as the cutter mounted on it is sharp.
- Install the cash register in a location not subject to direct sunlight, unusual temperature changes, high humidity or splashing water.
Installation in such locations could cause damage to the cabinet and the electronic components.
- Never install the register in saline areas (e.g.: close to the sea).
Installing the register in such locations could cause component failure with the corrosion.
- Never operate the register with wet hands.
The water could seep into the interior of the register and cause component failure.
- When cleaning your register, use a dry, soft cloth. Never use solvents, such as benzine and/or thinner.
The use of such chemicals will lead to discoloration or deterioration of the cabinet.
- The register plugs into any standard wall outlet (120V AC).
Other electrical devices on the same electrical circuit could cause the register to malfunction.
- If the register malfunctions, call your local authorized dealer for service.
Do not try to repair the register yourself.
- For protection against data loss, please install two alkaline batteries LR6 ("AA" size) after initializing the register. When handling the batteries, please observe the following:
Incorrectly using batteries can cause them to burst or leak, possibly damaging the interior of the register.
 - RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
 - Be sure that the positive (+) and negative (–) poles of each battery are facing in the proper direction for installation.
 - Never mix batteries of different types.
 - Never mix old batteries and new ones.
 - Never leave dead batteries in the battery compartment.
 - Remove the batteries if you do not plan to use the register for long periods.
 - Should a battery leak, clean out the battery compartment immediately, taking care to avoid letting the battery fluid come into direct contact with your skin.
 - For battery disposal, follow the corresponding law in your country.
- For complete electrical disconnection, disconnect the main plug.



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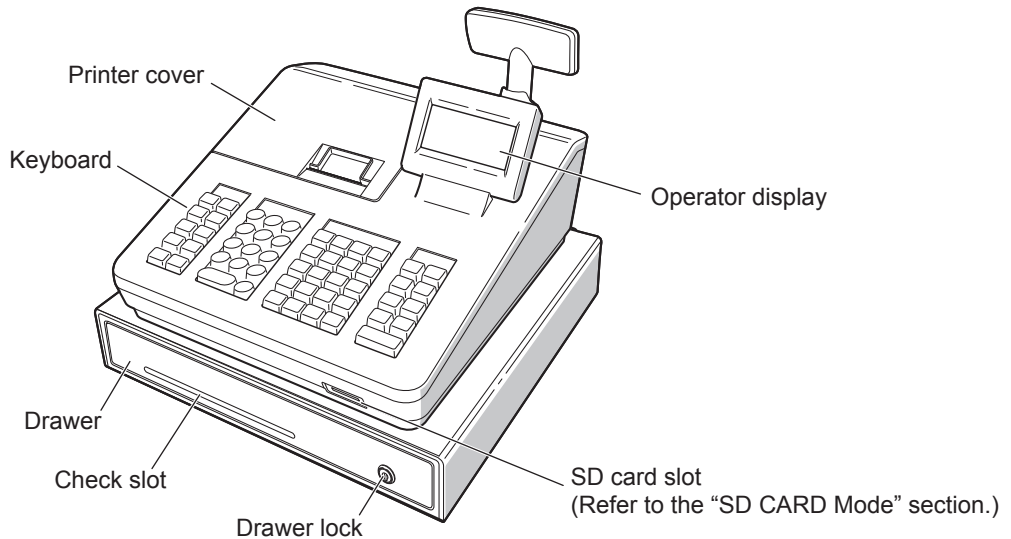
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1

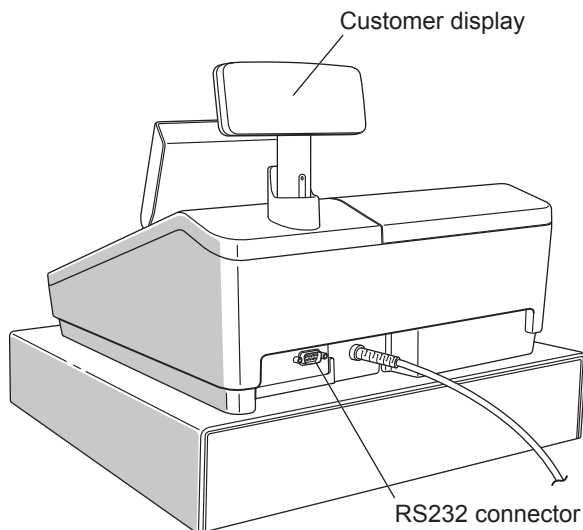
Parts and Their Functions

External View

■ Front view



■ Rear view



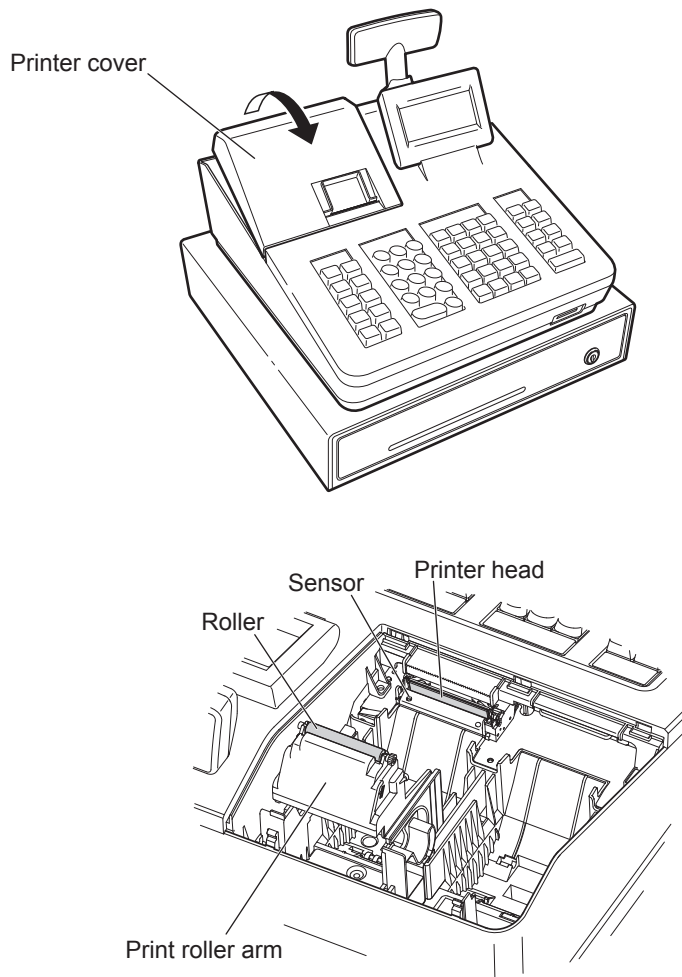
Printer

The printer is a thermal printer, and therefore it does not require any type of ink ribbon or cartridge. The average life of the printer is approximately 6 million lines.

When removing the printer cover, lift up from the rear.

When installing the printer cover, hook it on the pawls at the front of the cabinet and shut it.

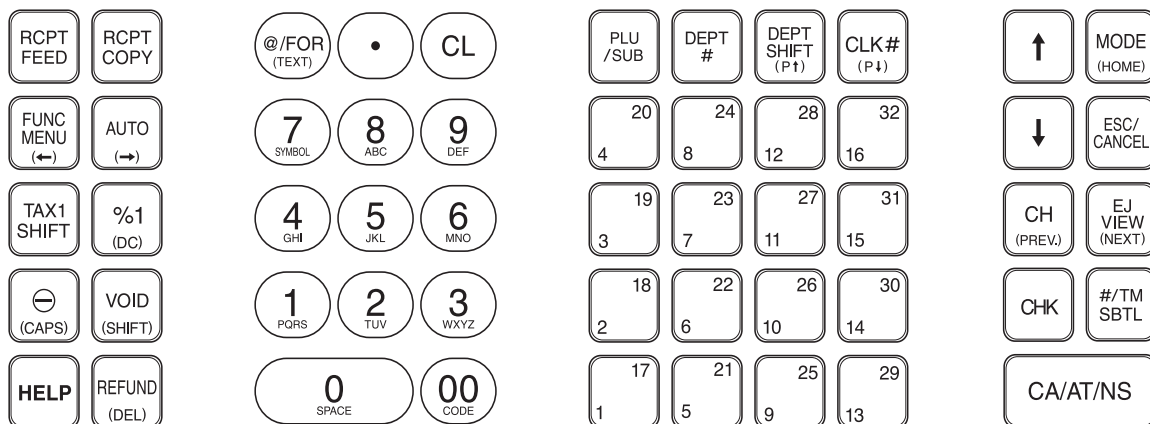
CAUTION: The paper cutter is mounted on the printer cover. Be careful not to cut yourself.



NOTE Do not attempt to remove the paper with the print roller arm in the hold position. This may result in damage to the printer and printer head.

Keyboard

Keyboard layout



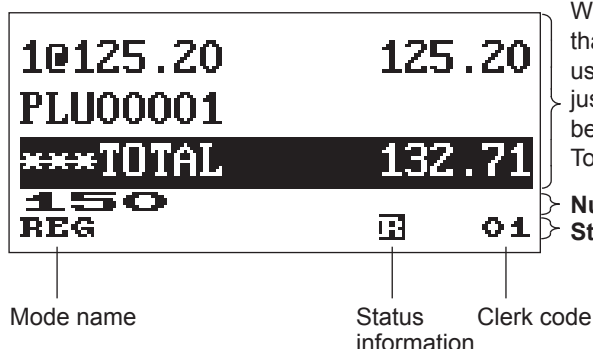
Function key list

RCPT FEED	Receipt paper feed key	PLU /SUB	PLU/sub-department key
RCPT COPY	Receipt print key	DEPT #	Department code entry key
FUNC MENU	Function menu key	DEPT SHIFT	Department shift key
AUTO	Auto key	CLK#	Clerk code entry key
TAX1 SHIFT	Tax1 shift key	17 1 ~ 32 16	Department 1-32 key
%1	Percent 1 key	↑ ↓	Cursor (up/down arrow) key
(−)	Discount key	MODE	Mode key
VOID	Void key	ESC/ CANCEL	Escape/Cancel key
HELP	Help key	CH	Charge key
REFUND	Refund key	EJ VIEW	Electronic journal view key
@/FOR	Multiplication key	CHK	Check key
•	Decimal point key	#/TM SBTL	Non-add code/Time display/Subtotal key
CL	Clear key	CA/AT/NS	Cash/Amount tender/No sale key
0 ~ 9	Numeric key		
00			

Displays

■ Operator display

• Screen example 1 (REG mode)



Sales information area:

When a transaction information occupies more than 2 lines, you can scroll to the direction by using the keys. Sales information you have just entered such as items and prices will appear between 1st line and 2nd line. Total is always appear at 3rd line.

Numeric Entry Area:

Status area:

Receipt ON/OFF status indicator (R) : Appears when the receipt ON-OFF function signs OFF.

Electronic journal near full indicator () : Appears () when the used memory is 80%.

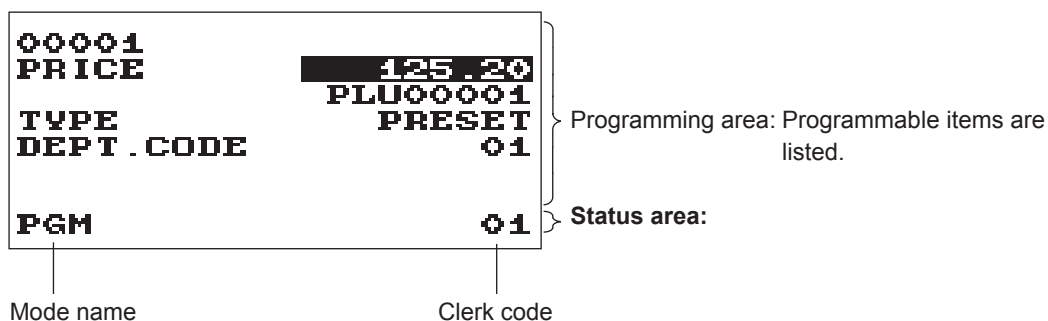
: Appears () when the used memory is 90%.

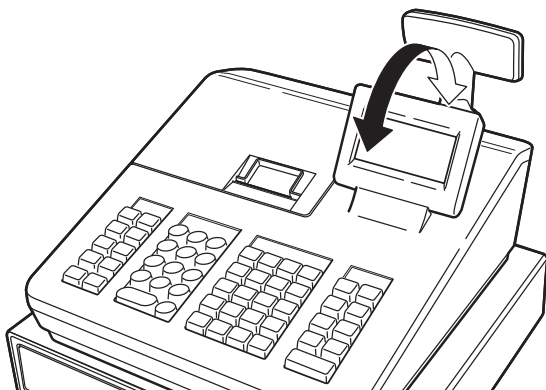
: Appears () when the used memory is 95%.

Sentinel mark (X)

: Appears when the cash in drawer exceeds a programmed sentinel amount. The sentinel check is performed for the total cash in drawer.

• Screen example 2 (PROGRAM mode)





The display can be tilted back and forth to the best operational viewing angle.

NOTE

Do not try to force the display beyond its full position.

■ Customer display



■ Screen save mode

When you want to save the electric power or save the display's life, use the screen save function. This function can turn off the display and the LCD backlight when any clerk does not operate the register for an extended period of time. You can program the time for which your register should keep the normal status (in which the backlight is "ON") before it goes into the screen save mode.

This register will enter the screen save mode two minutes later by default.

To go back to the normal mode, press any key.

The backlight in display is a consumable part.

When the LCD display may no longer be adjusted and become darker, you should replace the LCD unit.

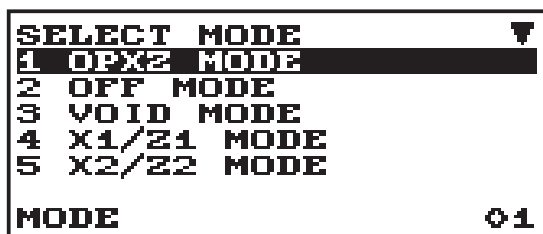
Consult your authorized SHARP dealer for further details.

2

Selecting an Operating Mode

When you turn the register on and press the **[MODE]** key, the mode selection window will appear on the display, listing available operating modes as shown below.

Mode selection window



Operating Modes

You can select any mode other than REG from the list in the mode selection window. Your register supports the following operating modes:

REG mode	This mode allows you to enter various sales information. The mode selection window does not list this mode. To select this mode from the mode selection window, press the [ESC/CANCEL] key.
OPXZ mode	This mode allows clerks to take X or Z reports on their sales information.
OFF mode	This mode locks all operations of the register. When you select this mode, the window will disappear. Pressing any key turns the register ON.
VOID mode	This mode allows correction after finalizing a transaction.
X1/Z1 mode	This mode is used to take various daily total reports (X1/Z1 reports).
X2/Z2 mode	This mode is used to take various weekly or monthly reports (X2/Z2 reports).
PROGRAM mode	This mode is used to program various items.
SD CARD mode	This mode allows you to save and load the data of your register to and from an SD card.

Mode Selection

Procedure

Press the **MODE** key. The following mode screen is displayed.

```
SELECT MODE          ▾
1 OPX2 MODE
2 OFF MODE
3 VOID MODE
4 X1/Z1 MODE
5 X2/Z2 MODE
⏮
MODE                 01
```

Use one of the following ways:

- Move the cursor to the desired option by using the **↑** or **↓** key, and press the **CA/AT/NS** key.
- Enter the desired option number by using a numeric key and press the **CA/AT/NS** key.

NOTE When you want to enter the REG mode, simply press the **ESC/CANCEL** key.

3

Prior to Making Entries

Preparations for Entries

■ Receipt paper roll

If the receipt paper roll is not set in the register or it is getting low, install a new one according to section “Replacing the Paper Roll” under “Operator Maintenance.”

■ Receipt ON/OFF function

You can disable receipt printing in the REG mode to save paper using the receipt function.

Press the **HELP** key. Select “2 RECEIPT SW” and press the **CA/AT/NS** key. Select “OFF” to disable receipt printing and press the **CA/AT/NS** key. When the function is in the OFF status, the receipt off indicator “R” is highlighted.

NOTE Your register will print reports regardless of the receipt state. This means that the receipt roll must be installed even when the receipt state is “OFF”.

■ Clerk assignment

Prior to any item entries, a clerk must enter his/her clerk codes into the register.

To sign on:



To sign off: → **CLK#** →

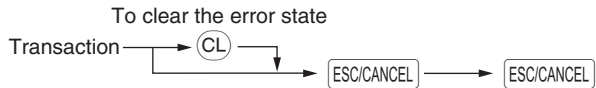
Error Warning

In the following examples, your register will go into an error state accompanied with a warning beep and the error message on the display. Clear the error state by pressing the **CL** key and then take the proper action to remedy the problem.

- When you exceed a 32-digit number (entry limit overflow):
Cancel the entry and reenter a correct number.
- When you make an error in key operation:
Clear the error and try the entry again.
- When you make an entry beyond a programmed amount entry limit:
Check to see if the entered amount is correct. If it is correct, it can be rung up in the MGR mode.
Contact your manager.
- When an including-tax subtotal exceeds eight digits:
Clear the error message by pressing the **CL** key and then press a media key to finalize the transaction.

Error escape function

To quit a transaction due to an error or an unforeseen event, use the error escape function as shown below:



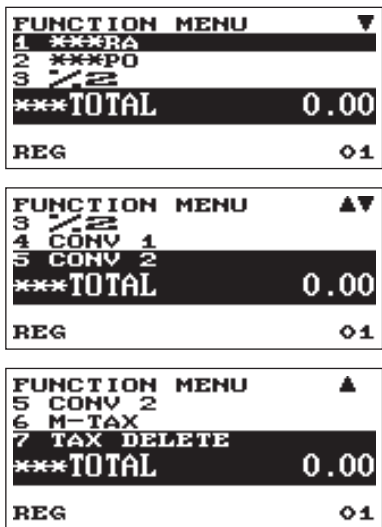
The transaction is voided (treated as a subtotal void) and the receipt is issued by this function. If you have already entered a tendered amount, the operation is finalized as a cash sale.

Selecting the Function from the Menu

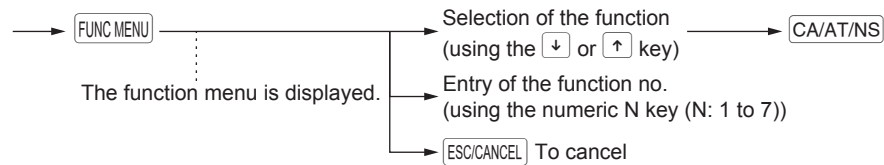
Your register allows you to select functions from the menu.

The menu can be opened by pressing the **FUNC MENU** key.

• FUNCTION MENU



Procedure



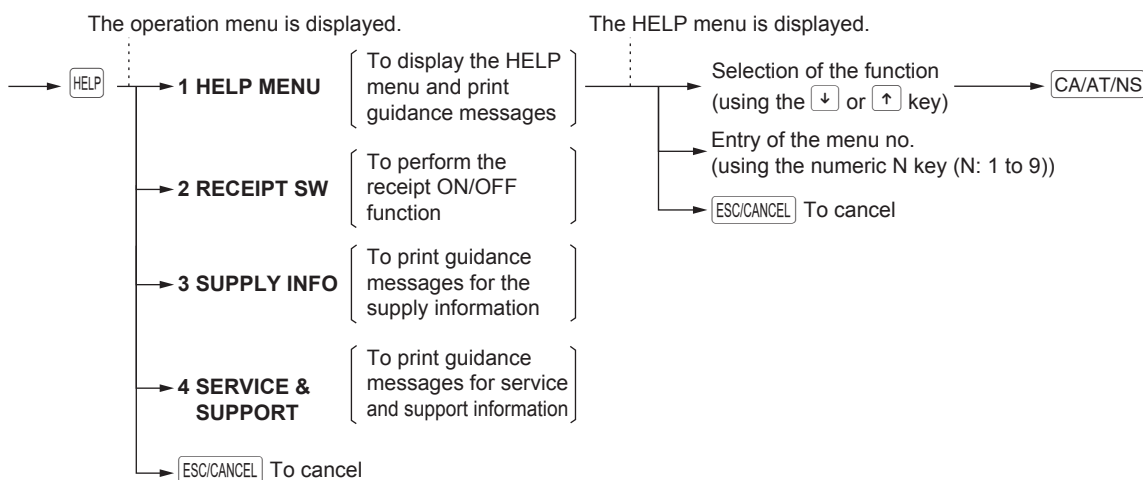
HELP Function

The HELP function allows you to print guidance messages for basic operation procedure of the register.

■ The HELP menu and guidance messages

Press the **HELP** key to display the operation menu. This menu provides a list of the procedures for which you can perform it or print the guidance messages.

Procedure



Example

Key operation

HELP 1
2

Print

```

2 TAX RATE SETUP

MODE SELECTION: PROGRAM MODE
SELECT "2 SETTING".
SELECT "12 TAX".

EX) TAX1 RATE=6.25%
    MIN. AMT=$3.00
SELECT "2 TAX1".
SELECT "2 %TAX".
6.25[↓] 300[CA/AT/NS]
  
```

HELP menu list

- 1 DATE/TIME
- 2 TAX
- 3 DEPARTMENT
- 4 LOGO
- 5 SALES REPORT
- 6 RECEIPT
- 7 CLERK
- 8 SD CARD
- 9 PC S/W INSTALL

4

Entries

Item Entries

■ Single item entries

Department entries

For a merchandise classification, the register provides a maximum of 99 departments. To the departments, group attributes such as taxable status are applied to items when they are entered.

NOTE When those departments for which the unit price has been programmed as zero (0) are entered, only the sales quantity is added.

• When using the department keys (for department 1 to 32)

For department 1 to 16, enter a unit price and press a department key. If you use a programmed unit price, press a department key only.

For department 17 to 32, enter a unit price, press the **DEPT SHIFT** key and press a department key. If you use a programmed unit price, press the **DEPT SHIFT** key and press a department key.

Procedure

When using a programmed unit price



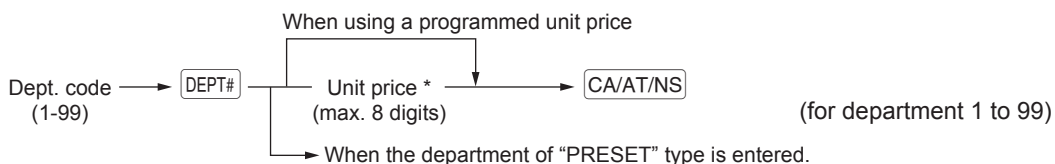
* Less than the programmed upper limit amounts

• When using the department code entry key

Enter a department (dept.) code and press the **DEPT#** key, then enter a unit price and press the **CA/AT/NS** key.

If the department code is programmed to preset price entry ("PRESET") type and a unit price is preset, the register will finish its registration operation.

Procedure



* Less than the programmed upper limit amounts

NOTE You can directly enter the code No. of the department using the numeric key. For the code No. exceeding the figure on the numerical key board (33 and above), use this function.

Example

Key operation

1200 ²²
²¹
 3
 520

²⁰

Print

1@ 12.00	1\$12.00
DEPT.06	
1@ 7.10	1\$7.10
DEPT.05	
1@ 5.20	1\$5.20
DEPT.03	
1@ 6.80	1\$6.80
DEPT.04	
MDSE ST	\$31.10
TAX1	\$1.86
ITEMS 4Q	
CASH	\$32.96

PLU/sub-department (open price) entries

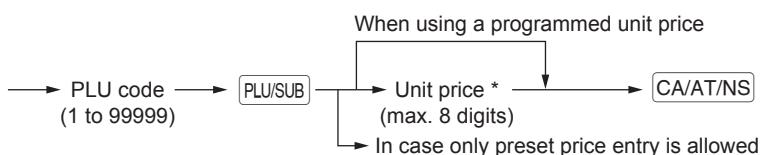
For another merchandise classification, the register provides a maximum of 2500 PLUs/sub-departments. PLUs are used to call up preset prices by a code entry. Sub-departments are used to classify merchandise into smaller groups under the departments. Every PLU and sub-department has a free code from 1 to 99999, and should belong to a department to obtain attributes of that department.

The register is pre-programmed to "PRESET" for entry type and zero (0) for unit price. To use PLU entries, their preset unit prices should be previously programmed. (Refer to the section "PLU" of "DEPT/PLU Programming")

To use sub-department entries, change to "OPEN" or "OPEN&PRESET" entry type for each PLU code.

Enter a PLU code and press the key. If you not use a programmed unit price, you need to enter a unit price after pressing the key.

Procedure



NOTE When those PLUs for which the unit price has been programmed as zero (0) are entered, only the sales quantity is added.

Example

Key operation

PLU entry → 2
 Sub-department entry → { 16
 1200

Print

1@ 5.10	1\$5.10
PLU00002	
1@ 12.00	1\$12.00
PLU00016	
MDSE ST	\$17.10
TAX1	\$1.02
ITEMS 2Q	
CASH	\$18.12

■ Repeat entries

You can use this function for entering a sale of two or more the same items.

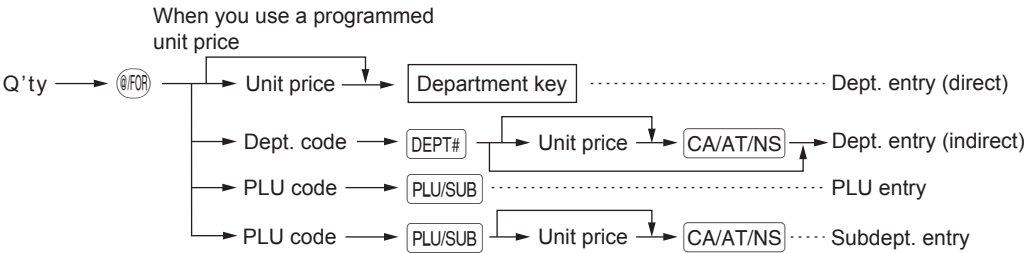
You can simply press the department key, **DEPT#**, or **PLU/SUB** key to repeat entry.

Example	Key operation	Print
Repeated department entry (direct)	200 <input type="text" value="2"/> ¹⁰ <input type="text" value="2"/> ¹⁰ <input type="text" value="2"/> ¹⁰ 4	3@ 2.00 T1\$6.00 DEPT.02 2@ 6.80 T1\$13.60 DEPT.04
Repeated department entry (indirect)	DEPT# 680 CA/AT/NS DEPT#	3@ 8.20 T1\$24.60 PLU00010 2@ 5.00 T1\$10.00 PLU00060 MDSE ST \$54.20 TAX1 \$3.25
Repeated PLU entry	10 <input type="text" value="PLU/SUB"/> <input type="text" value="PLU/SUB"/> <input type="text" value="PLU/SUB"/> <input type="text" value="PLU/SUB"/>	ITEMS 10Q CASH \$57.45
Repeated subdepartment entry	60 <input type="text" value="PLU/SUB"/> 500 <input type="text" value="CA/AT/NS"/> <input type="text" value="PLU/SUB"/> <input type="text" value="CA/AT/NS"/>	

Multiplication entries

Use this feature when you need to enter two or more the same items.
This feature helps you when you sell a large quantity of items or need to enter quantities that contain decimals.

Procedure



- Q'ty: Up to four-digit integer + three-digit decimal
- Unit price: Less than a programmed upper limit
- Q'ty x unit price: Up to eight digits

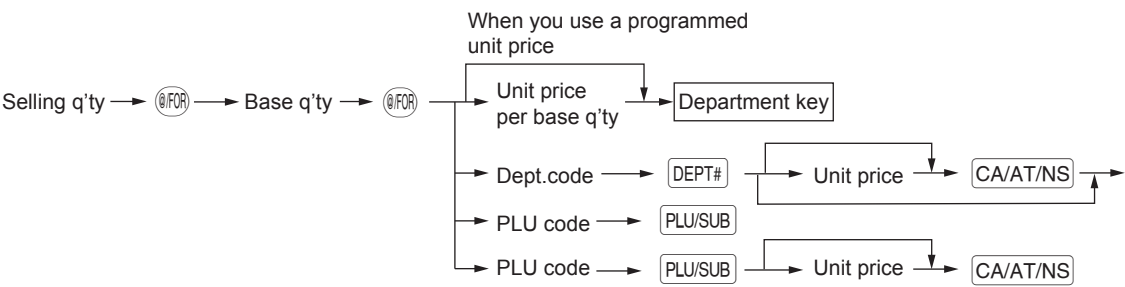
Example

Key operation	Print
7 • 5 @/FOR	7.500@ 1.65 T\$12.38
165 2 ¹⁰	DEPT. 02
2 @/FOR	2@ 2.50 T,\$5.00
5 DEPT#	DEPT. 05
250	15@ 3.00 T\$45.00
CA/AT/NS	PLU00008
15 @/FOR	3@ 1.00 T,\$3.00
8 PLU/SUB	PLU00060
3 @/FOR	MDSE ST \$65.38
60 PLU/SUB	TAX1 \$3.92
100	
CA/AT/NS	ITEMS 21Q
CA/AT/NS	CASH \$69.30

Split-pricing entries

You will use this function when your customer wants to purchase more or less than the base quantity of a loose item.

Procedure



- Selling quantity: Up to four-digit integer + three-digit decimal
- Base quantity: Up to two digits (integer)

Example

Key operation	Print
7 @/FOR 10 @/FOR	7@ 10/ 6.00 1\$4.20
600 2 10	DEPT. 02
8 @/FOR 5 @/FOR	8@ 5/ 1.50 1\$2.40
35 PLU/SUB	PLU00035
CA/AT/NS	MDSE ST \$6.60
	TAX1 \$0.40
	ITEMS 2Q
	CASH \$7.00

■ Single item cash sale (SICS)

- This function is useful when a sale is for only one item and is for cash; such as a pack of cigarettes. This function is applicable only to those departments that have been set for SICS or to their associated PLUs or subdepartments.
- The transaction is finalized and the drawer opens as soon as you press the department key, **DEPT#** key or **PLU/SUB** key.

Example

Key operation	Print
For finishing the transaction → 250 3	<div> 1@ 2.50 T \$2.50 DEPT.03 MDSE ST \$2.50 TAX1 \$0.15 ITEMS 1@ CASH \$2.65 </div>

NOTE

If an entry to a department or PLU/subdepartment set for SICS follows the ones to departments, PLUs/subdepartments not set for SICS, it does not finalize and results in a normal sale.

Display of Subtotals

The register provides the following types of subtotals.

■ Taxable subtotal

Taxable 1 subtotal:

Press the **TAX1 SHIFT** and **#/TM/SBTL** keys in this order at any point during a transaction.

The sale subtotal of taxable 1 items will appear in the display with the function text "TAX1 ST".

■ Including-tax subtotal (complete subtotal)

Press the **#/TM/SBTL** key at any point during a transaction. The sale subtotal including tax will appear in the display with the function text "SUBTOTAL".

Finalization of Transaction

■ Cash or check tendering

Press the **#/TM/SBTL** key to get an including-tax subtotal, enter the amount tendered by your customer, then press the **CA/AT/NS** key if it is a cash tender or press the **CHK** key if it is a check tender. When the amount tendered is greater than the amount of the sale, your register will show the change due amount and the symbol “CHANGE.” Otherwise your register will show the symbol “DUE” and a deficit. Make a correct tender entry.

Example

Cash tendering

Key operation	Print
<div>⌋</div> <div>#/TM/SBTL</div> <div>1000 CA/AT/NS</div>	<div>ITEMS 2Q</div> <div>***TOTAL \$3. 55</div> <div>CASH \$10.00</div> <div>CHANGE \$6. 45</div>

Check tendering

Key operation	Print
<div>⌋</div> <div>#/TM/SBTL</div> <div>1000 CHK</div>	<div>ITEMS 2Q</div> <div>***TOTAL \$3. 55</div> <div>CHECK \$10.00</div> <div>CHANGE \$6. 45</div>

■ Cash or check sale that does not need any tender entry

Enter items and press the **CA/AT/NS** key if it is a cash sale or press the **CHK** key if it is a check sale. Your register will display the total sales amount.

Example	Key operation	Print
	6 PLU/SUB	
	10 PLU/SUB	
	CA/AT/NS	
		<div> 1@ 3.50 ₺\$3.50 PLU00006 1@ 8.20 ₺\$8.20 PLU00010 MDSE ST \$11.70 TAX1 \$0.70 ITEMS 2Q CASH \$12.40 </div>
		In the case of check sale
		<div> ITEMS 2Q CHECK \$12.40 </div>

■ Charge (credit) sale

Enter items and press the **CH** key.

Example	Key operation	Print
	6 PLU/SUB	
	7 PLU/SUB	
	#/TM/SBTL	
	CH	
		<div> 1@ 3.50 ₺\$3.50 PLU00006 1@ 2.10 ₺\$2.10 PLU00007 MDSE ST \$5.60 TAX1 \$0.34 ITEMS 2Q CHARGE \$5.94 </div>

NOTE Amount tendering operations (i.e. change calculations) can be achieved by the **CH** key when the "Media Key Programming" allows them.

■ Mixed-tender sale (cash or check tendering + charge tendering)

Example	Key operation	Print
	<div> } </div>	
	#/TM/SBTL	
	950 CA/AT/NS	
	CH	
		<div> ITEMS 2Q ***TOTAL \$12.40 CASH \$9.50 CHARGE \$2.90 </div>

NOTE Press the **CHK** key in place of the **CA/AT/NS** key when your customer makes payment by checks.

Tax Calculation

■ Automatic tax

When the register is programmed with a tax rate (or tax table) and the tax status of an individual department is set for taxable, it computes the automatic tax on any item that is entered directly into the department or indirectly via a related PLU.

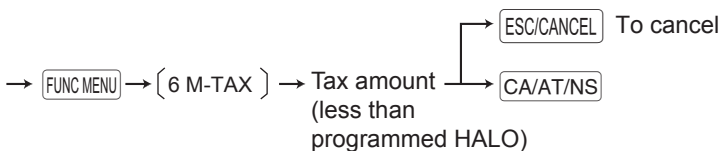
Example: Selling five \$6.70 items (dept. 1, taxable 1) and one \$7.15 item (PLU 85, taxable 2) for cash

Key operation	Print
5 @FOR 670 1 ¹⁷	5@ 6.70 1,\$33.50
85 PLU/SUB	DEPT.01
CA/AT/NS	1@ 7.15 2,\$7.15
	PLU00085
	MDSE ST \$40.65
	TAX1 \$2.01
	TAX2 \$0.57
	ITEMS 6Q
	CASH \$43.23

■ Manual tax

The register allows you to enter tax manually after it finalizes an item entry.

Procedure



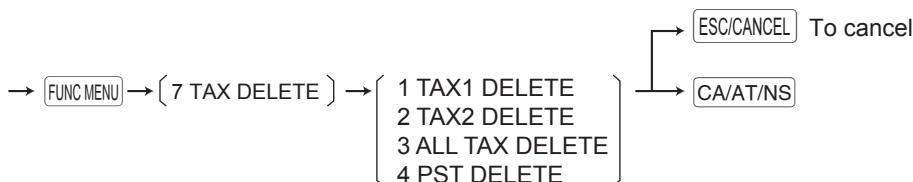
Example: Selling an \$8.00 item (dept. 12) for cash with 50 cents as tax

Key operation	Print
800 <input type="text" value="20"/>	
<input type="text" value="FUNC MENU"/> 6	1@ 8.00 \$8.00
50 <input type="text" value="CA/AT/NS"/>	DEPT. 12
<input type="text" value="CA/AT/NS"/>	M-TAX \$0.50
	ITEMS 1@
	CASH \$8.50

■ Tax delete

The automatic tax (tax 1, tax 2, or all tax (tax1 – tax 4)) can be deleted.

Procedure



NOTE The “4 PST DELETE” function becomes effective only when the Canadian tax is selected.

Example: Selling a \$7.25 item (dept. 1, taxable 1) and another \$5.15 item (dept. 11, taxable 2) for cash and entering the sale as non-taxable

Key operation	Print
725 1 ¹⁷	1@ 7.25 ₺\$7.25
515 11 ²⁷	DEPT. 01
FUNC MENU 7	1@ 5.15 ₺\$5.15
Select “TAX1 DELETE”	DEPT. 11
CA/AT/NS	TAX1 ST \$0.00
FUNC MENU 7	TAX2 ST \$0.00
Select “TAX2 DELETE”	
CA/AT/NS	ITEMS 2@
CA/AT/NS	CASH \$12.40

■ Tax status shift

The register allows you to shift the programmed tax status of each department or PLU by pressing the **TAX1 SHIFT** key before those keys. After each entry is completed, the programmed tax status of each key is resumed.

Example: Selling the following items for cash with their programmed tax status reversed

- One \$13.45 item of dept. 16 (non-taxable) as a taxable 1 item
- One \$7.00 item of PLU 25 (non-taxable) as a taxable 1 item
- One \$4.00 item of dept. 11 (taxable 1) as a non-taxable item

Key operation	Print
1345 TAX1 SHIFT 16 ³²	1@ 13.45 ₺\$13.45
25 TAX1 SHIFT PLU/SUB	DEPT. 16
400 TAX1 SHIFT 11 ²⁷	1@ 7.00 ₺\$7.00
CA/AT/NS	PLU00025
	1@ 4.00 \$4.00
	DEPT. 11
	MDSE ST \$24.45
	TAX1 \$1.23
	ITEMS 3@
	CASH \$25.68

Auxiliary Entries

■ Percent calculations (premium or discount)

- Your register provides percent calculations for a subtotal or each item entry depending on the programming.
- Percentage: 0.01 to 100.00%

Percent calculation for a subtotal

Example

Key operation		Print	
(When a discount of 10% is programmed for the %1 key.)	3 <input type="button" value="PLU/SUB"/> 2 <input type="button" value="@FOR"/> 5 <input type="button" value="PLU/SUB"/> <input type="button" value="#/TM/STBL"/> <input type="button" value="%1"/> <input type="button" value="CA/AT/NS"/>	1@ 1.10 PLU00003 2@ 2.25 PLU00005 MDSE ST %1 MDSE ST TAX1	1\$1.10 1\$4.50 \$5.60 -10.00% -0.56 \$5.04 \$0.34
		ITEMS 3Q CASH	\$5.38

Percent calculation for item entries

Example

Key operation		Print	
(When a premium of 15% is programmed for the %1 key.)	6 <input type="button" value="PLU/SUB"/> <input type="button" value="%1"/> 30 <input type="button" value="PLU/SUB"/> 7 <input type="button" value="•"/> 5 <input type="button" value="%1"/> <input type="button" value="CA/AT/NS"/>	1@ 3.50 PLU00006 %1 1@ 5.00 PLU00030 %1 MDSE ST TAX1	1\$3.50 15.00% \$0.53 1\$5.00 7.50% \$0.38 \$9.41 \$0.51
		ITEMS 2Q CASH	\$9.92

NOTE

- You can also enter a percent calculation from the function menu window. Press the key and select "3 %2" and enter a percent calculation.
- Availability of item % and/or subtotal % depends on the programming data of %1 and %2.

■ Discount entries

Your register allows you to deduct a certain amount less than a programmed upper limit after the entry of an item or the computation of a subtotal depending on the programming.

Discount for a subtotal

Example

Key operation	Print
6 <input type="button" value="PLU/SUB"/>	1@ 3.50 T1\$3.50
60 <input type="button" value="PLU/SUB"/>	PLU00006
#/TM/SBTL	1@ 12.00 T1\$12.00
100 <input type="button" value="⊖"/>	PLU00060
CA/AT/NS	MDSE ST \$15.50
	(-) -1.00
	MDSE ST \$14.50
	TAX1 \$0.93
	ITEMS 2Q
	CASH \$15.43

Discount for item entries

Example

Key operation	Print
7 <input type="button" value="PLU/SUB"/>	1@ 2.10 T1\$2.10
75 <input type="button" value="⊖"/>	PLU00007
CA/AT/NS	(-) -0.75
	MDSE ST \$1.35
	TAX1 \$0.12
	ITEMS 1Q
	CASH \$1.47

■ Refund entries

For a refund entry, press the key just before you press a department key, key or key. The operation before pressing the key is the same as the one of normal operation. For example, if a refund item is the one entered into a department, enter the amount of the refund, then press the key and the corresponding department key in this order; if an item entered into a PLU is returned, enter the corresponding PLU code, then press the and keys.

Example

Key operation	Print
3 <input type="button" value="REFUND"/> <input type="button" value="PLU/SUB"/>	-1@ 1.10 T1R-1.10
7 <input type="button" value="@/FOR"/>	PLU00003
7 <input type="button" value="REFUND"/> <input type="button" value="PLU/SUB"/>	-7@ 2.10 T1R-14.70
CA/AT/NS	PLU00007
	MDSE ST -15.80
	TAX1 -0.95
	ITEMS 0Q
	CHANGE \$16.75

■ Printing of non-add code numbers

Enter a non-add code number such as a guest code number within a maximum of 16 digits and press the **#/TM/SBTL** key at any point during the entry of a sale. The non-add code is printed on the receipt.

Example

Key operation	Print
1230 #/TM/SBTL	#0000000000001230
700 1 ¹⁷	1@ 7.00 7.00
CH	DEPT. 01
	MDSE ST 7.00
	TAX1 0.42
	ITEMS 1Q
	CHARGE \$7.42

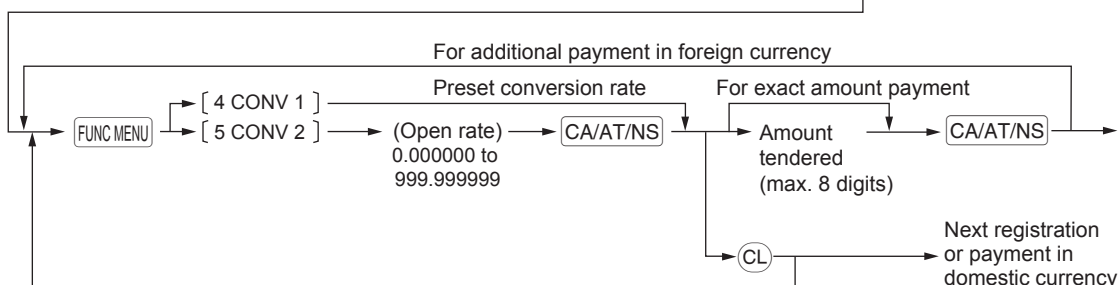
Payment Treatment

■ Currency conversion

Your register allows payment entries in foreign currency. Press the **FUNC MENU** key and select “CONV 1” or “CONV 2” to create a subtotal in foreign currency.

Procedure

After an entry is completed
or
After the amount tendered is found smaller than the sales amount in a sales entry



NOTE

- When the amount tendered is short, its equivalent in deficit is shown in domestic currency.
- Change amount will be displayed in domestic currency.

Example

Preset conversion rate (0.8063) :CONV 1

Key operation

16
 17
 Currency conversion → 4
 Amount tendered in foreign currency → 10000

Print

1@ 23.00	1\$23.00	
PLU00016		
1@ 46.50	1\$46.50	
PLU00017		
MDSE ST	\$69.50	
TAX1	\$4.17	
ITEMS 2Q		
***TOTAL	\$73.67	Domestic currency
CONV 1	0.806300	Conversion rate
	€59.40	Foreign currency
CASH	€100.00	Domestic currency
CHANGE	\$50.35	

Foreign currency symbol
(Printed if programmed)

Example

Open conversion rate (1.275) :CONV 2

Key operation

16
 17
 Currency conversion → 5
 Conversion rate → 1.275
 Amount tendered in foreign currency → 10000

Print

1@ 23.00	1\$23.00	
PLU00016		
1@ 46.50	1\$46.50	
PLU00017		
MDSE ST	\$69.50	
TAX1	\$4.17	
ITEMS 2Q		
***TOTAL	\$73.67	
CONV 2	1.275000	
	93.93	
CASH	100.00	
CHANGE	\$4.76	

Received-on-account entries

When you receive on account from a customer, use this function.

From the FUNCTION MENU, select RA option to proceed the operation. You cannot receive RA in foreign currency.

Procedure

→ → { 1 ***RA } → RA amount
(max. 9 digits) →

Example

Key operation

12345
 (Selection "1 ***RA") → 1
 4800

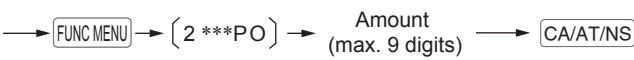
Print

#00000000000012345	
***RA	\$48.00

■ Paid-out entries

When you pay an amount to a vendor, use this function.
From the FUNCTION MENU, select PO option to proceed the operation.

Procedure



Example

Key operation	Print
6789 [#/TM/SBTL]	#0000000000006789 ***PO\$30.00
(Selection "2 ***PO") → [FUNC MENU] 2	
3000 [CA/AT/NS]	

■ No-sale (exchange)

Simply press the [CA/AT/NS] key without any entry. The drawer will open and the printer will print "NO SALE" on the receipt. If you let your register print a non-add code number before pressing the [CA/AT/NS] key, a no sale entry is achieved with a non-add code number printed.

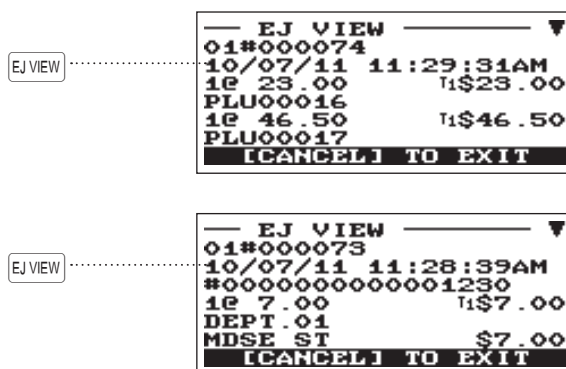
Print
NO SALE

Electronic Journal View

The transaction data is kept in the electronic journal memory.

To display the journal data, press the **EJ VIEW** key, the last transaction data is displayed.

To retroact to past transaction data, press the **EJ VIEW** key repeatedly.



To exit the electronic journal view, press the **ESC/CANCEL** key.

TRAINING Mode

The training mode is used when the operator or the manager practices register operations.

When a clerk set in training is selected, the register automatically enters the training mode, while a clerk not set in training is selected, the register automatically enters the ordinary REG mode. A training text and a training clerk can be programmed.

The training operations are valid in all modes.

A mark which is identifying a training receipt is printed on the receipt which is issued in the training mode.

The consecutive number is not updated. The preceding number is repeated in printing.

Training clerk programming is performed in PROGRAM mode. (It allows only for one-clerk.)

The memory in clerk is updated in the training mode. Other memories are not updated.

The reading and resetting of training clerks is printed on the clerk reports. However, the sales total of training clerks is not included in the clerk total on the full clerk report.

Example

Key operation

Selecting the clerk set in training

5 **PLU/SUB**
3 **@/FOR**
3 **PLU/SUB**
CA/AT/NS

Print

TRAINING	
1@ 2.25	T1\$2.25
PLU00005	
3@ 1.10	T1\$3.30
PLU00003	
MDSE ST	\$5.55
TAX1	\$0.33
ITEMS 4Q	
CASH	\$5.88

5 Correction

Correction of the Last Entry (Direct Void)

If you make an incorrect entry relating to a department, PLU/subdepartment, percentage (%1,%2), discount (⊖), or item refund, you can void this entry by pressing the **VOID** key immediately after the incorrect entry.

Example

Key operation

Display

12501¹⁷
VOID

2PLU/SUB
VOID

6002¹⁸
%1
VOID

3283¹⁹
28⊖
VOID

250REFUND1¹⁷
VOID

CA/AT/NS

1012.5012.50
DEPT.01
***TOTAL13.25
DEPT.0112.50
REG01

***TOTAL0.00
DEPT.01V-12.50
REG01

ITEMS 2Q
CASH9.84
***TOTAL9.84
REG01

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Correction of the Next-to-Last or Earlier Entries (Indirect Void)

If you find an incorrect entry before finalizing the transaction (e.g. before pressing the **CA/AT/NS** key), you can void the entry by the cursor operation or the key sequence operation.

Indirect void by cursor operation

You can void department, PLU/subdepartment, item refund, amount discount/premium and percent entries.

Move the cursor to the item to be voided, and press the **VOID** key.

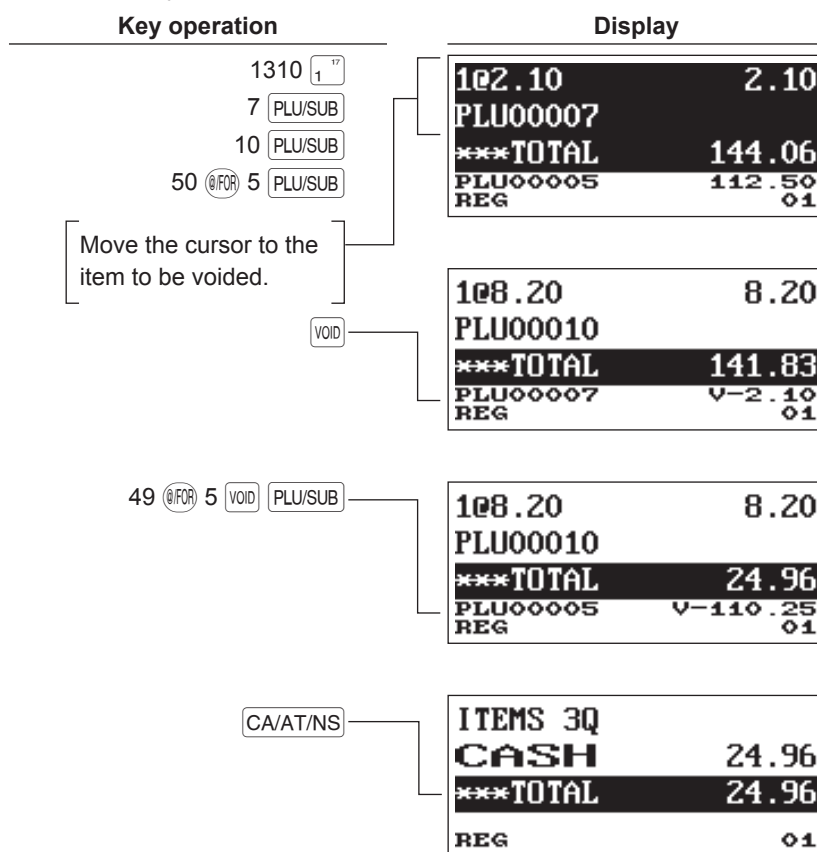
Indirect void by key sequence operation

You can void department, PLU/subdepartment and item refund.

Press the **VOID** key just before you press a department key, **DEPT#** key or **PLU/SUB** key. For the refund indirect void, press the **VOID** key after you press the **REFUND** key.

Example

(Indirect void by cursor operation)



NOTE

The register allows you to enter the quantity to void only for the integer quantity.

→ [Selection the item to void by cursor] → [Entry the quantity to void (XXXX)] → **VOID**

Subtotal Void

You can void an entire transaction. Once subtotal void is executed, the transaction is aborted and the register issues a receipt.

Example

Key operation

1
 2
 10
 Subtotal void {

Display

SBTL VOID	-134.85
***TOTAL	0.00
***TOTAL	0.00
REG	01

Correction after Finalizing a Transaction

When you need to void incorrect entries that are found after finalizing a transaction or cannot be corrected by direct, indirect or subtotal void, follow this procedure.

1. Press the key.
2. Select the "3 VOID MODE" by using the key, and press the key.
3. Repeat the entries that are recorded on an incorrect receipt. (All data in the incorrect receipt is removed from register memory; the voided amounts are added to the void mode totalizer.)

Incorrect receipt

#000146	10/03/2011	8:44:40PM
01 CLERK01		000000
3@ 12.50		T\$37.50
PLU00001		
1@ 5.10		T\$5.10
PLU00002		
MDSE ST		\$42.60
TAX1		\$2.56
ITEMS 4Q		
CASH		\$45.16



Cancellation receipt

#000147	10/03/2011	8:46:01PM
01 CLERK01		000000
		VOID
3@ 12.50		T\$37.50
PLU00001		
1@ 5.10		T\$5.10
PLU00002		
MDSE ST		\$42.60
TAX1		\$2.56
ITEMS 4Q		
CASH		\$45.16

NOTE

Your register leaves the VOID mode whenever a transaction is canceled (i.e. finalized in the VOID mode). To void additional transactions, repeat steps 1 through 3 above.

6 Special Printing Function

Copy Receipt Printing

If your customer wants a receipt after you have finalized a transaction with the receipt ON-OFF function in the OFF status (no receipting), press the **RCPT COPY** key for receipting. Your register can also print a copy receipt when the receipt ON-OFF function is in the "ON" status.

Procedure

→ **RCPT COPY**

Example

Printing a receipt after making the entries shown below with the receipt ON-OFF function "OFF" status

Key operation	Print
2 PLU/SUB	
3 @/FOR	
1 PLU/SUB	
CA/AT/NS	
For receipting → RCPT COPY	
Print on the receipt	<div> 1@ 5.10 T,\$5.10 PLU00002 3@ 12.50 T,\$37.50 PLU00001 MDSE ST \$42.60 TAX1 \$2.56 ITEMS 4Q CASH \$45. 16 </div>

"COPY" is printed on the copy receipt.

	COPY	
1@ 5.10		T,\$5.10
PLU00002		
3@ 12.50		T,\$37.50
PLU00001		
MDSE ST		\$42.60
TAX1		\$2.56
ITEMS 4Q		
CASH		\$45. 16

7 Manager Mode

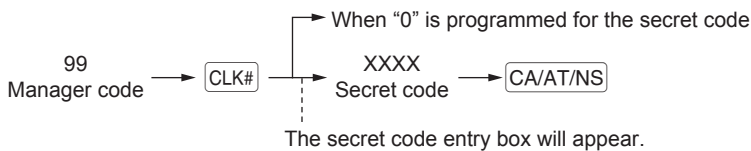
The manager mode is used when managerial decisions must be made concerning register entries, for example, for overriding limitations and for other various non-programming managerial tasks.

NOTE Normal register operations may also be performed in this mode.

Entering the Manager Mode

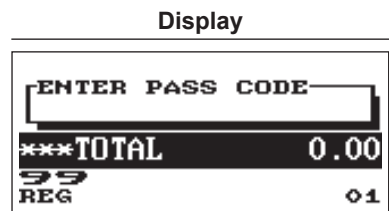
To enter the manager mode, use the following procedure in the REG mode:

Procedure



Example

If the code is correct, the register enters the manager mode.



Override Entries

Programmed limits (such as maximum amounts) for functions can be overridden by placing the register in the manager mode.

Example

This example presumes that the register has been programmed not to allow coupon entries over 2.00.

	Key operation	Print														
REG-mode entries	3 [PLU/SUB]															
	250 [C]Error															
	[CL]															
	Enter to the manager mode — 99 [CLK#]															
	250 [C]															
	[CA/AT/NS]															
		<table border="1"> <tr> <td>1@ 3.00</td> <td>1/3 \$3.00</td> </tr> <tr> <td>PLU00003</td> <td></td> </tr> <tr> <td>(-)</td> <td>-2.50</td> </tr> <tr> <td>MDSE ST</td> <td>\$0.50</td> </tr> <tr> <td>TAX1</td> <td>\$0.18</td> </tr> <tr> <td>ITEMS 1Q</td> <td></td> </tr> <tr> <td>CASH</td> <td>\$0.68</td> </tr> </table>	1@ 3.00	1/3 \$3.00	PLU00003		(-)	-2.50	MDSE ST	\$0.50	TAX1	\$0.18	ITEMS 1Q		CASH	\$0.68
1@ 3.00	1/3 \$3.00															
PLU00003																
(-)	-2.50															
MDSE ST	\$0.50															
TAX1	\$0.18															
ITEMS 1Q																
CASH	\$0.68															

NOTE • When a transaction is finalized, manager is automatically signed off.

8

Reading (X) and Resetting (Z) of Sales Totals

- Use the reading function (X) when you need to take the reading of sales information entered after the last resetting. You can take this reading any number of times. It does not affect the register's memory.
- Use the resetting function (Z) when you need to clear the register's memory. Resetting prints all sales information and clears the entire memory except for the GT1 through GT3, reset count, and consecutive number.
- X1 and Z1 reports show daily sales information. You can take these reports in the X1/Z1 mode.
- X2 and Z2 reports show periodic (monthly) consolidation information. You can take these reports in the X2/Z2 mode.
- In the OP X/Z mode, a clerk can take his or her report.
- If you want to stop the printing report, press the **ESC/CANCEL** key.

■ How to take a X1/Z1 or X2/Z2 report

[To take an X1 or X2 report:]

1. Press the **MODE** key.
2. Select the "4 X1/Z1 MODE" or "5 X2/Z2 MODE" by using the **↓** key, and press the **CA/AT/NS** key.
3. Select "2 READING" in the X1/Z1 mode or select "1 READING" in the X2/Z2 mode menu window and press in both cases **CA/AT/NS** key to display the items list.
4. Select the appropriate report title.
5. Press the **CA/AT/NS** key.

[To take a Z1 or Z2 report:]

1. Press the **MODE** key.
2. Select the "4 X1/Z1 MODE" or "5 X2/Z2 MODE" by using the **↓** key, and press the **CA/AT/NS** key.
3. Select "3 RESETTING" in the X1/Z1 mode or select "2 RESETTING" in the X2/Z2 mode menu window and press in both cases **CA/AT/NS** key to display the items list.
4. Select the appropriate report title.
5. Press the **CA/AT/NS** key.

■ View report

You can take view reports (display only) in the X1/Z1 mode for department sales, cash in drawer (CID) and sales total at the point you take the report.

1. Press the **MODE** key.
2. Select the "4 X1/Z1 MODE" by using the **↓** key, and press the **CA/AT/NS** key.
3. Select the "1 VIEW REPORT", and press the **CA/AT/NS** key.
4. Select "1 DEPT. SALES" to take a view report of department sales, "2 CASH IN DRAWER" to take a view report of cash in drawer, or "3 SALES TOTAL" to take a view report of sales total.
5. Press the **CA/AT/NS** key.

Report type	Description	Operating modes			Data to be entered
		OP X/Z	X1/Z1	X2/Z2	
GENERAL	General report		X1, Z1	X2, Z2	
GENERAL+EJ	General report and electronic journal		Z1		
<PLU MENU>					
BY RANGE	PLU sales report by specified range		X1, Z1		PLU code (The range can be specified by entering start and end codes.)
BY DEPT	PLU report by associated department		X1, Z1		Department code
<CLERK MENU>					
ALL CLERK	All clerk report		X1, Z1		
IND. CLERK	Individual clerk report	X, Z	X1, Z1		For the assigned clerk
HOURLY	Hourly report (all or by specified range)		X1		For an individual time range (The range can be specified by entering start and end times.)
	Hourly report (all)		Z1		
E.JOURNAL	Electronic journal	X, Z	X1, Z1		
SRM REPORT	SRM (Sales Recording Module) report			X2	Only for the Quebec fiscal

Daily Sales Totals

■ General report

• Sample report

Z1		Mode title*1
		Reset counter
		Net grand total (GT2-GT3)
*2	Z1 0001	Grand total of plus registration
	GT1 \$00000001328.43	Grand total of minus registration
	GT2 \$00000001598.34	Grand total of training mode registration
	GT3 -00000000269.91	Dept. code
TR \$00000000005.88		Sales q'ty
DEPARTMENT		Sales amount
D01	65.000 Q	
DEPT.01	\$1101.69	
D02	11.000 Q	
DEPT.02	\$16.20	
D03	3.000 Q	
DEPT.03	\$10.98	
DEPT.85 \$7.15		
D99	3.000 Q	
DEPT.99	\$84.78	
*DEPT TL	92.000 Q	} "+" dept. counter and total
	\$1283.60	
D38	3.000 Q	
DEPT.38	-28.50	
DEPT (-)	3.000 Q	} "-" dept. counter and total
	-28.50	
TRANSACTION		
(-)	1 Q	} Subtotal ⊖ counter and total
	-1.00	
%1	1 Q	} Subtotal percent 1 counter and total
	-0.56	
NET1	\$1253.54	Net sales total
TAX1 ST	\$1224.74	Taxable 1 total
GRS TAX1	\$76.47	Gross tax 1 total
RFD TAX1	-3.06	Refund tax 1 total
TAX1	\$73.41	Net tax 1 total
TX1 EXPT	\$7.25	
TAX2 ST	\$12.30	
GRS TAX2	\$0.98	
TAX2	\$0.98	
TX2 EXPT	\$5.15	
GRS NTAX \$0.50		
M-TAX \$0.50		Manual tax total
		--*3
TTL TAX \$74.89		Tax total
NET \$1253.54		Net total without tax
NET2 \$1328.43		Net total with tax
(-)		2 Q
		-3.25
%1		2 Q
		\$0.91
VOID		10 Q
		\$152.63
SBTL VOID		12 Q
		\$697.40
MGR VOID		3 Q
		\$58.41
VOID		2 Q
		\$58.41
REFUND		5 Q
		\$22.50
***RA		1 Q
		\$48.00
***PD		1 Q
		\$30.00
NO SALE		3 Q
TRANS CT		43 Q
NET3		\$1328.43
CASH		36 Q
		\$1152.59
CHECK		2 Q
		\$22.40
CHARGE		3 Q
		\$16.26
CHARGE-		1 Q
		-3.71
CONV 1		€100.00
CONV 2		100.00
****CID		\$1109.03
CA+CHK ID		\$1131.43
CHK/CG		\$6.45

*1: When you take X1 report, "X1" is printed.

*2: Printed in the Z1 report only.

*3: When the Canadian tax system is selected, the following is printed here.

GST EXPT	\$202.00	Exempt total from GST
PST TTL	\$12.12	PST total
GST TTL	\$23.28	GST total

■ PLU report by designated range

• Sample report

X1		Mode title*
PLU		Report title
00001- 99999		Range
PLU		
P00001	11.000 Q	} Sales q'ty and total
PLU00001	\$701.00	
P00002	5.000 Q	}
PLU00002	\$25.50	
P00003	3.000 Q	}
PLU00003	\$2.70	
P00005	6.000 Q	}
PLU00005	\$13.50	
PLU00017		\$93.00
P00030	1.000 Q	
PLU00030	\$5.38	
P00035	8.000 Q	
PLU00035	\$2.40	
P00060	3.000 Q	
PLU00060	\$22.00	
P00085	1.000 Q	
PLU00085	\$7.15	
***TOTAL	56.000 Q	} PLU range sum
	\$1029.91	

* When you take Z1 report, "Z1" is printed.

NOTE

In case of a PLU X report only header information is stored in the Electronic Journal file.

■ PLU report by associated department

• Sample report

X1		Mode title
PLU BY DEPT		Report title
DEPT. 01		Associate dept. code
PLU		
P00001	3.000 Q	} Sales q'ty and total
PLU00001	\$37.50	
P00002	4.000 Q	}
PLU00002	\$20.40	
P00003	11.000 Q	}
PLU00003	\$14.70	
P00017		2.000 Q
PLU00017	\$93.00	
P00030	3.000 Q	
PLU00030	\$14.62	
P00060	11.000 Q	
PLU00060	\$38.00	
***TOTAL	95.000 Q	} PLU total
	\$541.64	

■ Clerk reports

Individual clerk report

• Sample report

X1		Mode title*
IND. CLERK		Report title
CLK#01		Clerk code
CLERK01		Clerk name
TRANS CT	45 Q	Customer counter
NET3	\$906.77	} Sales total
****CID	\$677.21	
CA+CHK ID	\$706.06	
CHK/CG	\$6.45	

*: When you take OPZ report, "OPZ" is printed.

Full clerk report

The report prints in the same format as in the sample report of individual clerk, but all clerk's sales data is sorted by clerk code # (from #1 to #25).

■ Hourly report

• Sample report

X1		Mode title*
HOURLY		Report title
9:00AM	5 Q	Customer counter
	\$373.95	} Sales total
10:00AM	13 Q	
	\$139.97	
11:00AM	12 Q	
	\$322.62	
4:00PM	\$379.86	
	9 Q	
	\$169.21	
8:00PM	1 Q	
	\$1.23	

*: When you take Z1 report, "Z1" is printed.

When you take an hourly report by range, a report of the specified range of time (hour) is printed.

Periodic Report Sample

■ General information

The periodic reading or resetting reports are the same in format as those in the X1/Z1 report for daily sales. The mode indicator will read "X2" or "Z2".

• Sample report

(Full sales report)

Z2		Mode title *1	}	*2
	Z1 0001	Reset counter of daily total		
	Z2 0001	Reset counter of periodic consolidation		
GT1	\$00000001328.43	Grand totals		
GT2	\$00000001598.34			
GT3	-00000000269.91			
TR	\$00000000005.88			

↓

The subsequent printouts are the same in format as those in the X/Z report for daily totals.

*1: When you take X2 report, "X2" is printed.

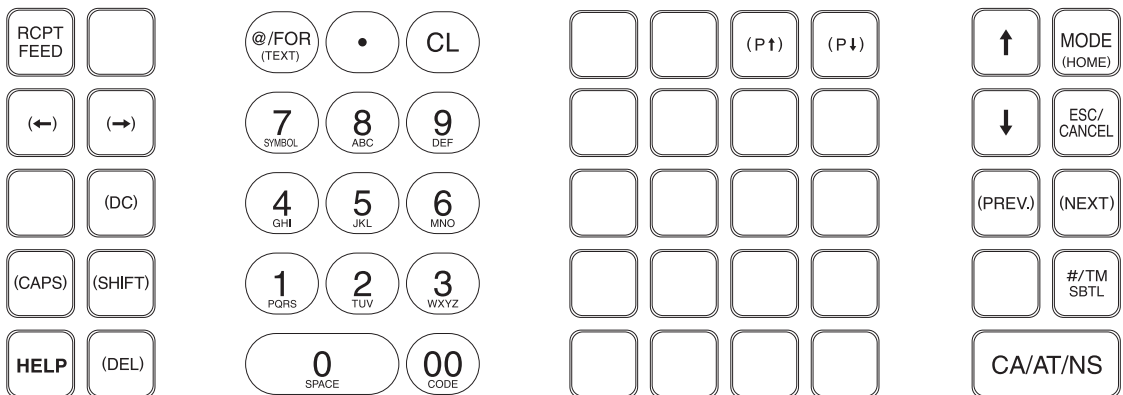
*2: Printed in the Z2 report only

9

Prior to Programming

When you are in the PROGRAM mode, the keyboard layout will be set to one of the programming layouts as shown below.

Programming Keyboard Layout



: Used for programming characters. For more information about programming characters, see the section “How to Program Alphanumeric Characters.”
Also the (DEL) key is used to delete the record item.



: Used to move the cursor.



: Used to program each setting and to finalize programming.



: Used to cancel programming and to get back to the previous screen.



: Used to go back to the previous record, e.g., from the department 2 programming window back to the department 1 programming window.



: Used to go to the next record, for example, in order to program unit prices for sequential departments.



: Used to scroll the window to go to the next page.



: Used to scroll the window to go back to the previous page.



: Used to clear the last setting you have programmed or clear the error state.



: Used to toggle between two or more options.



: Used to list those options which you can toggle by the (•) key.

Numeric keys : Used for entering figures.

How to Program Alphanumeric Characters

This section discusses how to program alphanumeric characters for various texts.

■ Mobile phone method

Entering alphanumeric characters

To enter a character, simply press a corresponding character key on the programming keyboard.

To enter “A”, press the “8” key.

To enter “B”, press the “8” key twice.

To enter “C”, press the “8” key three times.

Entering double-size characters

(DC) : This key toggles the double-size character mode and the normal-size character mode. The default is the normal-size character mode. When the double-size character mode is selected, the letter “W” appears at the bottom of the display.

Entering upper-case letters

(SHIFT) : You can enter an upper-case letter by using this key. Press this key just before you enter the upper-case letter. You should press this key each time you enter an upper-case letter.

(CAPS) : You can lock the upper-case letter mode once the this key is pressed.

Entering space

(SPACE) : Enter a space in the cursor position.

To move the cursor

(←) (→) : Moves the cursor.

To delete a character or figure

(DEL) : Deletes a character or figure in the cursor position.

To change the text input mode

(TEXT) : This key toggles the text input mode, Alphabet (A), European character (Ä), numeric (1), and symbol (*).

■ Entering character codes

Numerals, letters and symbols are programmable by entering the **00** key and character codes. Use the following procedure with the cursor placed at the position where you want to enter characters:

To enter a digit, simply press a corresponding numeric key.

→ **00** → XXX XXX : character code (3 digits)

Character
code:

	032	033	034	035	036	037	038	039	040	041	042	043	044	045	046	047
032 - 047		!	"	#	\$	%	&	'	()	*	+	,	-	.	/
	048	049	050	051	052	053	054	055	056	057	058	059	060	061	062	063
048 - 063	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
	064	065	066	067	068	069	070	071	072	073	074	075	076	077	078	079
064 - 079	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	080	081	082	083	084	085	086	087	088	089	090	091	092	093	094	095
080 - 095	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
	096	097	098	099	100	101	102	103	104	105	106	107	108	109	110	111
096 - 111	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
112 - 127	p	q	r	s	t	u	v	w	x	y	z	{	}	~	Δ	
	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
128 - 143	Ç	ü	é	â	ä	à	ã	ç	ê	ë	è	ï	î	ì	Ä	Å
	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
144 - 159	É	æ	Œ	ô	ö	ò	û	ù	ÿ	Ö	Ü	ø	£	Ø	x	f
	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
160 - 175	Á	Í	Ó	Ú	Ñ	Ñ	ª	º	¿	®	©	½	¼	¡	«	»
	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
176 - 191	▨	▩	▪													
	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
192 - 207	T ₁	T ₂	T ₃	T ₄	2	3	4	z ₃	z ₄	z ₄	Å	↑	↓	=	Ó	Ø
	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
208 - 223	ð	Ð	Ê	Ë	È	€	Í	Î	Ï	Ž	Γ	■	■	!	ì	■
	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
224 - 239	Ó	ß	Ô	Ò	Õ	Ö	µ	þ	þ	Ú	Û	Ü	Ý	Ý	-	'
	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
240 - 255	-	±	=	¼	¶	§	÷	,	°	·	.	1	3	2	■	(DC)

*(DC) : Double-size character code

10 Programming

This chapter explains how to program various items.

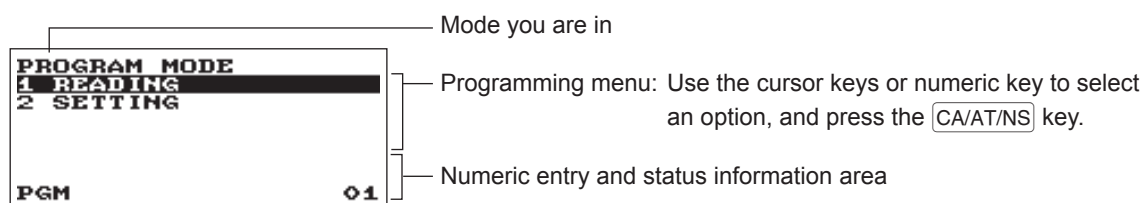
Before you start programming, press the **MODE** key and select the “6 PROGRAM MODE” or “7 SD CARD MODE” by using the **↓** key and press the **CA/AT/NS** key.

Basic Instructions

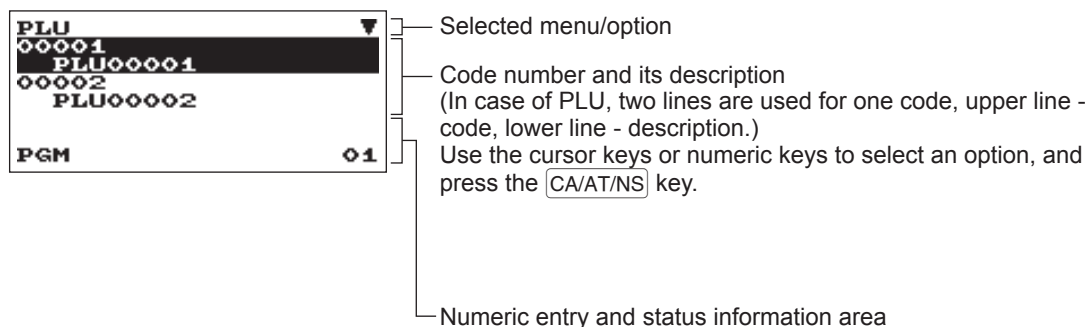
This section illustrates the basic programming by using an example of programming for departments.

■ Programming screen

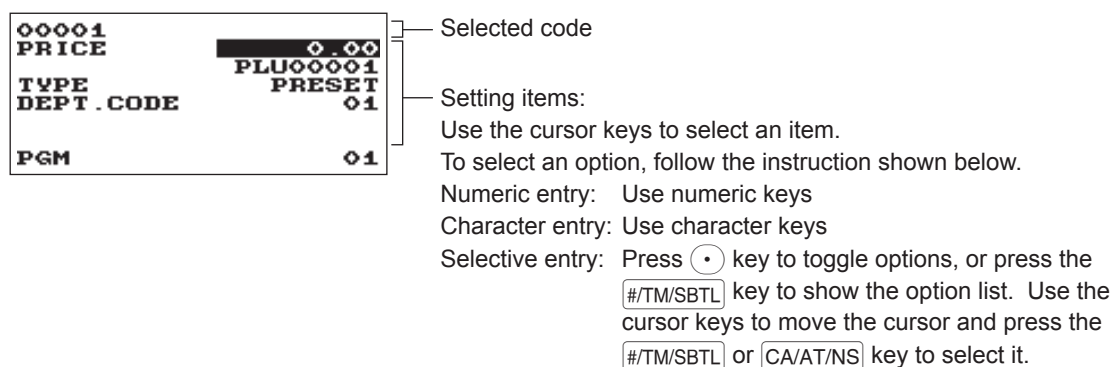
Opening screen: When you select the “6 PROGRAM MODE”, your display will show a programming opening screen corresponding to the mode you selected.



Code selecting screen (Dept. PLU):



Programming screen:



■ Programming example

The following example shows how to program 2.00 for the unit price, "ABCDE" for the description, and "non-taxable 1" for department 1.

Procedure

```

PROGRAM MODE
1 READING
2 SETTING
-----
PGM                                01
  
```

CA/AT/NS ↓ ↑ ESC/CANCEL

```

SETTING
1 DEPT/PLU
2 FUNCTIONS
3 MEDIA
4 FUNCTION TEXT
5 PERSONNEL
-----
PGM                                01
  
```

CA/AT/NS ↓ ↑ ESC/CANCEL

```

DEPT/PLU
1 DEPARTMENT
2 PLU
3 PLU RANGE
-----
PGM                                01
  
```

CA/AT/NS ↓ ↑ ESC/CANCEL

```

DEPARTMENT
01 DEPT.01
02 DEPT.02
03 DEPT.03
04 DEPT.04
05 DEPT.05
-----
PGM                                01
  
```

CA/AT/NS ↓ ↑ ESC/CANCEL

1. In the PROGRAM MODE screen, select "2 SETTING" by using the key and press the key.
 - The SETTING screen will appear.

NOTE

- You can also select "2 SETTING" by using numeric key "2," then press the key.
- If you return to the previous screen, press the key.

2. Select "1 DEPT/PLU"
 - The DEPT/PLU screen will appear.

NOTE

The arrow mark in the upper-right corner of the window shows that the window contains more options than are now on the screen. To scroll the window, press the or key. To return to the previous page, press the or key.

3. Select "1 DEPARTMENT."
 - The DEPARTMENT screen will appear, listing programmable departments.

4. Select "01 DEPT.01" to program for department 1.
 - The "01" window will appear.

```

01 PRICE      200      ▼
TYPE          DEPT.01
TAX1          OPEN
TAX2          YES
TAX3          NO
PGM           NO
              01

```

```

01 PRICE      2.00      ▼
TYPE ABCDE          OPEN
TAX1          YES
TAX2          NO
TAX3          NO
PGM           A      01

```

```

01 PRICE      2.00      ▼
TYPE          ABCDE
TAX1          OPEN
TAX2          NO
TAX3          NO
PGM           01

```

5. On the first page of the "01" window, program the unit price and description as follows:

NOTE

There are three entry patterns for the programming: the numeric entry, character entry, and selective entry.

- Move the cursor to "PRICE," enter "200" by using numeric keys. → Numeric entry
- Move the cursor to "DEPT.01," enter "ABCDE" by using character keys. → Character entry

If you want to clear setting, press the (CL) key before you press the (↓), (↑), (P↓), (P↑) or (CA/AT/NS) key.

6. Press the (↓) key twice to move the cursor to "TAX 1", then program the register to set "non-taxable 1" as follows:

- Press the (•) key to select "NO." → Selective entry

NOTE

The (•) key toggles between two options as follows:

NO→YES→NO→....

Pressing the (#/TM/SBTL) key displays all pertinent options.

7. Select one of the following actions:

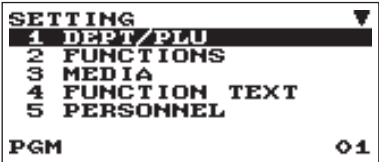
- To cancel the programming, press the (ESC/CANCEL) key. A confirmation window appears to ask you whether to save the data; select the option you prefer.
- To finalize the programming, press the (CA/AT/NS) key, then press the (ESC/CANCEL) key. You will return to the "DEPARTMENT" window.
- To program for the following department, press the (NEXT) key. The "02" window will appear. To return to the "01" window, press the (PREV) key.

The following sections describe how to program each item which is contained in a programming group.

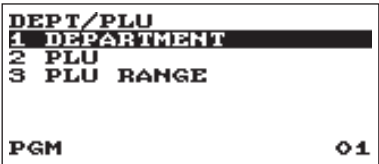
DEPT/PLU Programming

Use the following procedure to select any option included in the department/PLU programming group:

Procedure



CA/AT/NS ↓ ↑ ESC/CANCEL

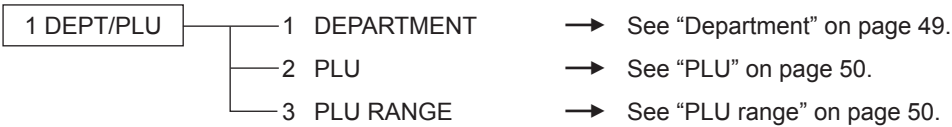


1. In the SETTING window, select “1 DEPT/PLU”
 - The DEPT/PLU window will appear.

2. Select any option from the following options list.

1 DEPARTMENT :	Departments
2 PLU :	PLUs
3 PLU RANGE :	A range of PLUs


The following illustration shows those options included in this programming group.



■ Department

The register can be equipped with maximum of 99 departments.

Use the following procedure to program for department.

NOTE To delete a department item in the "DEPARTMENT" window, select the item and press the  key. A confirmation window appears to ask you whether to delete the item, select the option you prefer.

Procedure

Select a pertinent dept. code from the departments list, or directly enter a department code.



01	PRICE	DEPT. 01
TYPE		OPEN
TAX1		YES
TAX2		NO
TAX3		NO
PGM		01

The screen continues.

Program each item as follows:

NOTE

For more information about the entry patterns, see the "Basic Instructions" section.

• PRICE (Use the numeric entry)

Unit price (max. 8 digits)

• Description (Use the character entry)

Description for a department. Up to 16 characters can be entered. (Default text: DEPT.nn)

• TYPE (Use the selective entry)

Type of unit price entry for departments

INHIBIT: Inhibited

OPEN: Open only

PRESET: Preset only

OPEN & PRESET: Open & preset

• TAX 1 through 4 (Use the selective entry)

Taxability for each department

YES: Taxable

NO: Non-taxable

• SICS (Use the selective entry)

Department type for SICS (Single Item Cash Sale)

YES: SICS department

NO: Normal department other than SICS department

• SIGN (Use the selective entry)

Selection of the sign (plus or minus)

+: Assign the plus sign


-: Assign the minus sign

• HALO (Use the numeric entry)

This function is intended for prevention of accidentally entered unreasonably amounts.

Limit amount: 0.00 to 999999.99

■ PLU

NOTE • To delete a PLU item in the “PLU” window, select the item and press the  key. A confirmation window appears to ask you whether to delete the item, select the option you prefer.

Procedure

Select a pertinent PLU code, or directly enter a PLU code.



00001	
PRICE	0.00
TYPE	PLU00001
DEPT . CODE	PRESET
	01
PGM	01

Program each item as follows:

- **PRICE (Use the numeric entry)**
Unit price of each price level (max. 8 digits)
- **Description (Use the character entry)**
Description for a PLU. Up to 16 characters can be entered.
(Default text: PLUnnnnn)
- **TYPE (Use the selective entry)**
Type of unit price entry for PLUs
INHIBIT: Inhibited
OPEN: Open only
PRESET: Preset only
OPEN & PRESET: Open & preset

- **DEPT. CODE (Use the numeric entry)**
Department code to be associated with the entered PLU
(01 through 99)
When a PLU is associated with a department, the following functions of the PLU depend on the programming for the department.
 - Single item cash sale
 - Taxability

■ PLU range

You can program PLUs in the designated range.

Procedure

PLU RANGE	
START	00000
END	00000
OPERATION	NEW&MAINT.
PGM	01



00001-00010	
PRICE	
TYPE	
DEPT . CODE	
PGM	01

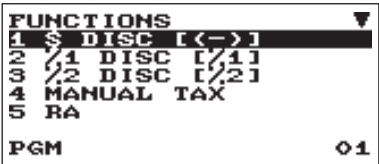
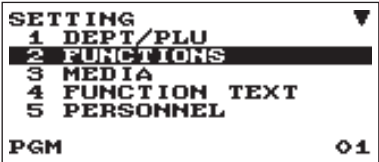
Enter a value or select an option for each item as follows:

- **START (Use the numeric entry)**
Starting PLU code (max. 5 digits)
- **END (Use the numeric entry)**
Ending PLU code (max. 5 digits)
- **OPERATION (Use the selective entry)**
DELETE: Enables you to delete a specified range of PLUs.
MAINT.: Enables you to change the setting you have programmed.
NEW&MAINT.: Enables you to change the current setting when the specified codes have already been created or to create new codes when the specified codes have not been created yet.

Functional Programming

Use the following procedure to select any option included in the functional programming group:

Procedure



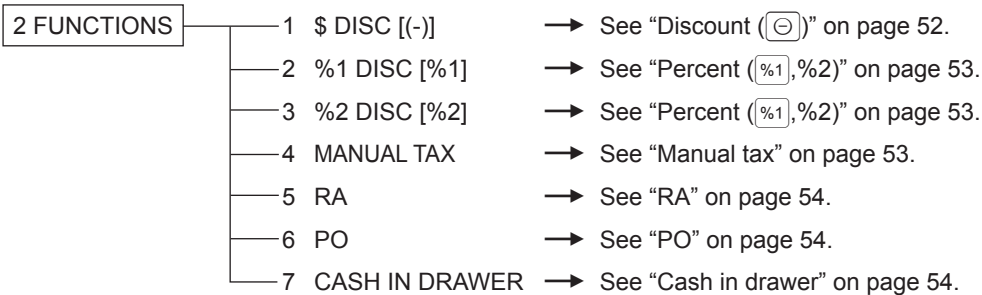
The screen continues.

1. In the SETTING window, select “2 FUNCTIONS.”
 - The FUNCTIONS window will appear.

2. Select any option from the following options list.

1	\$ DISC [(-)]	Discount
2	%1 DISC [%1]	Percent 1
3	%2 DISC [%2]	Percent 2
4	MANUAL TAX	Manual tax
5	RA	Received on account
6	PO	Paid out
7	CASH IN DRAWER	Cash in drawer

The following illustration shows those options included in this programming group.



■ Discount (☹)

Procedure

```
$ DISC [←→]
AMOUNT      -0.00
TEXT        ←→
SIGN        -
HALO        999999.99
ITEM        YES
SUBTOTAL    YES
PGM         01
```

The screen continues.

Program each item as follows:

- **AMOUNT (Use the numeric entry)**
Discount amount (max. 8 digits)
- **TEXT (Use the character entry)**
Description for the discount key. Up to 12 characters can be entered.
- **SIGN (Use the selective entry)**
Programming of the + or - sign assigns the premium or discount function to the discount key.
+: Plus amount (premium)
-: Minus amount (discount)
- **HALO (High Amount Lockout) (Use the numeric entry)**
This function is intended for prevention of accidentally entered unreasonably amounts.
Limit amount: 0.00 to 999999.99
- **ITEM (Use the selective entry)**
YES: Enables the item discount.
NO: Disables the item discount.
- **SUBTOTAL (Used the selective entry)**
YES: Enables the subtotal discount.
NO: Disables the subtotal discount.
- **TAX 1 through 4 (Use the selective entry)**
Taxability for the discount
YES: Taxable
NO: Non-taxable

■ Percent (%1, %2)

Procedure

%1 DISC [%1]	
RATE	-0.00%
TEXT	
SIGN	
HALO	100.00%
ITEM	NO
SUBTOTAL	YES
PGM	01

The screen continues.

Program each item as follows:

- **RATE (Use the numeric entry)**
Percent rate (0.00 to 100.00)
- **TEXT (Use the character entry)**
Description for the percent key. Up to 12 characters can be entered.
- **SIGN (Use the selective entry)**
Programming of the + or - sign assigns the premium or discount function to each percent key.
+: Plus (premium)
-: Minus (discount)
- **HALO (High Amount Lockout) (Use the numeric entry)**
This function is intended for prevention of accidentally entered unreasonably amounts.
HALO (High Amount Lockout) for the percent key (0.00 to 100.00)
- **ITEM (Use the selective entry)**
YES: Enables the item %.
NO: Disables the item %.
- **SUBTOTAL (Used the selective entry)**
YES: Enables the subtotal %.
NO: Disables the subtotal %.
- **TAX 1 through 4 (Use the selective entry)**
Taxability for the discount
YES: Taxable
NO: Non-taxable

■ Manual tax

Procedure

MANUAL TAX	
HALO	999999.99
TEXT	M-TAX
PGM	01

Program each item as follows:

- **HALO (High Amount Lockout) (Use the numeric entry)**
This function is intended for prevention of accidentally entered unreasonably amounts.
Limit amount: 0.00 to 999999.99
- **TEXT (Use the character entry)**
Description for the manual tax key.
Up to 12 characters can be entered.

■ RA

You can program an upper limit amount and description for received-on-account key.

Procedure

RA	9999999.99
HALO	***RA
TEXT	
PGM	01

Program each item as follows:

- **HALO (High Amount Lockout) (Use the numeric entry)**

This function is intended for prevention of accidentally entered unreasonably amounts.

Limit amount: 0.00 to 9999999.99

- **TEXT (Use the character entry)**

Description for the received-on-account key. Up to 12 characters can be entered.

■ PO

You can program an upper limit amount and description for paid-out key.

Procedure

PO	9999999.99
HALO	***PO
TEXT	
PGM	01

Program each item as follows:

- **HALO (High Amount Lockout) (Use the numeric entry)**

This function is intended for prevention of accidentally entered unreasonably amounts.

Limit amount: 0.00 to 9999999.99

- **TEXT (Use the character entry)**

Description for the paid-out key. Up to 12 characters can be entered.

■ Cash in drawer

You can program the description and the upper limit amounts for cash in drawer (sentinel).

Procedure

CASH IN DRAWER	99999999.99
HALO	***C ID
TEXT	
PGM	01

Program each item as follows:

- **HALO (High Amount Lockout) (Use the numeric entry)**

This function is intended for prevention of accidentally entered unreasonably amounts.

Limit amount: 0.00 to 99999999.99

NOTE When the cash in drawer amounts exceeds a limit amount, the sentinel mark (X) will be displayed.

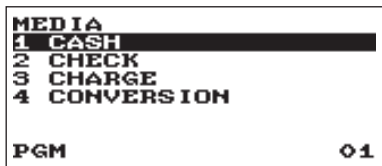
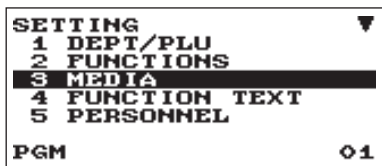
- **TEXT (Use the character entry)**

Description for the cash in drawer. Up to 12 characters can be entered.

Media Key Programming

Use the following procedure to select any option included in the media group:

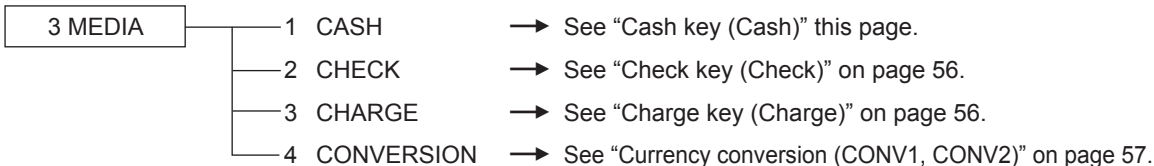
Procedure



1. In the SETTING window, select “3 MEDIA.”
 - The MEDIA window will appear.
2. Select any option from the following options list.

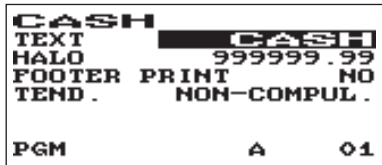
1 CASH	Cash
2 CHECK	Check
3 CHARGE	Charge
4 CONVERSION	Currency conversion

The following illustration shows those options included in this programming group.



■ Cash key (Cash)

Procedure



- Program each item as follows:
- **TEXT (Use the character entry)**
Description for the cash key. Up to 12 characters can be entered.
 - **HALO (High Amount Lockout) (Use the numeric entry)**
This function is intended for prevention of accidentally entered unreasonably amounts.
Limit amount: 0.00 to 999999.99
 - **FOOTER PRINT (Use the selective entry)**
This item decides whether or not your register should print a message at the foot of a receipt when a specified cash key is used.
YES: Enables footer printing on the receipt.
NO: Disables footer printing on the receipt.
 - **TEND. (Use the selective entry)**
NON-COMPUL.: Non-compulsory amount tendered entry.
COMPULSORY: Compulsory amount tendered entry.

■ Check key (Check)

Procedure

```

CHECK          CHECK
TEXT          999999.99
HALO
FOOTER PRINT NO
TEND .        NON-COMPUL .

PGM           A      01
  
```

Program each item as follows:

- **TEXT (Use the character entry)**
Description for the check key. Up to 12 characters can be entered.
- **HALO (High Amount Lockout) (Use the numeric entry)**
This function is intended for prevention of accidentally entered unreasonably amounts.
Limit amount: 0.00 to 999999.99
- **FOOTER PRINT (Use the selective entry)**
YES: Enables footer printing on the receipt.
NO: Disables footer printing on the receipt.
- **TEND. (Use the selective entry)**
NON-COMPUL.: Non-compulsory amount tendered entry.
COMPULSORY: Compulsory amount tendered entry.

■ Charge key (Charge)

Procedure

```

CHARGE          CHARGE
+TEXT          CHARGE-
-TEXT          999999.99
HALO
FOOTER PRINT NO
TEND .        INHIBITED

PGM           A      01
  
```

Program each item as follows:

- **+TEXT (Use the character entry)**
Description for the gross charge. Up to 12 characters can be entered.
- **-TEXT (Use the character entry)**
Description for the refund charge. Up to 12 characters can be entered.
- **HALO (High Amount Lockout) (Use the numeric entry)**
This function is intended for prevention of accidentally entered unreasonably amounts.
Limit amount: 0.00 to 999999.99
- **FOOTER PRINT (Use the selective entry)**
This item decides whether or not your register should print a message at the foot of a receipt when a specified charge key is used.
YES: Enables footer printing on the receipt.
NO: Disables footer printing on the receipt.
- **TEND. (Use the selective entry)**
COMPULSORY: Compulsory amount tendered entry.
INHIBITED: Inhibits amount tendered entry.

■ Currency conversion (CONV1, CONV2)

Procedure

CONVERSION		▼
PRESET RATE	ENABLE	
RATE	0.000000	
TEXT	CONV 1	
SYMBOL		
TAB	2	
OPEN RATE	ENABLE	
PGM	01	

The screen continues.

Program each item as follows:

- **PRESET RATE (Use the selective entry)**
ENABLE: Enables preset rate
DISABLE: Disable preset rate
- **RATE (Use the numeric entry)**
Currency exchange rate (0.000000 to 999.999999)
- **TEXT (Use the character entry)**
Description for the currency exchange key. Up to 12 characters can be entered.
- **SYMBOL (Use the character entry)**
Currency descriptor. Up to 4 characters can be entered.
- **TAB (Use the selective entry)**
Tabulation (0 to 3)
- **OPEN RATE (Use the selective entry)**
ENABLE: Enables open rate
DISABLE: Disable open rate
- **TEXT (Use the character entry) for the open rate**
Description for the currency exchange key for the open rate.
Up to 12 characters can be entered.
- **SYMBOL (Use the character entry) for the open rate**
Currency descriptor for the open rate. Up to 4 characters can be entered.
- **TAB (Use the selective entry) for the open rate**
Tabulation (0 to 3) for the open rate

NOTE

Currency symbol is printed with (+) amount of foreign currency.
The programmed character is printed at left side of amount.

EX) Case of "EURO":

CONV1	1.234567
	EURO 1.23

↑
Programmed symbol

Function Text Programming

You can program a maximum of 12 characters for each function by using the following table:

Procedure

SETTING	▼
1 DEPT/PLU	
2 FUNCTIONS	
3 MEDIA	
4 FUNCTION TEXT	
5 PERSONNEL	
PGM	01



FUNCTION TEXT	▼
1 NET1	
2 TAX1 ST	
3 GRS TAX1	
4 RFD TAX1	
5 TAX1	
PGM	01

The screen continues.

List of function text

No.	Function	Default text
1	Net sales total	NET1
2	Net taxable 1 subtotal	TAX1 ST
3	Gross tax 1 total	GRS TAX1
4	Tax 1 total of refund entries	RFD TAX1
5	Net tax 1 total	TAX1
6	Exempt tax 1	TX1 EXPT
7	Net taxable 2 subtotal	TAX2 ST
8	Gross tax 2 total	GRS TAX2
9	Tax 2 total of refund entries	RFD TAX2
10	Net tax 2 total	TAX2
11	Exempt tax 2	TX2 EXPT
12	Net taxable 3 subtotal	TAX3 ST
13	Gross tax 3 total	GRS TAX3
14	Tax 3 total of refund entries	RFD TAX3
15	Net tax 3 total	TAX3
16	Exempt tax 3	TX3 EXPT
17	Net taxable 4 subtotal	TAX4 ST
18	Gross tax 4 total	GRS TAX4
19	Tax 4 total of refund entries	RFD TAX4
20	Net tax 4 total	TAX4
21	Exempt tax 4	TX4 EXPT
22	Gross manual tax total	GRS MTAX
23	Refund manual tax total	RFD MTAX
24	Tax total (on report)	TTL TAX
25	Net	NET
26	Sales total including tax total	NET2
27	Refund	REFUND

1. In the SETTING window, select "4 FUNCTION TEXT".
 - The FUNCTION TEXT window will appear.

2. Program each item as follows:
 - **Text (Use the character entry)**
Description for each function. Up to 12 characters can be entered.

No.	Function	Default text
28	Item void	VOID
29	Void mode	VOID
30	Manager void	MGR VOID
31	Subtotal void	SBTL VOID
32	No sale	NO SALE
33	Transaction counter	TRANS CT
34	Net 3 (sales total, paid total)	NET3
35	Cash + check in drawer	CA+CHK ID
36	Check change	CHK/CG
37	(+) department total	*DEPT TL
38	(-) department total	DEPT(-)
39	Items	ITEMS
40	Merchandise subtotal	MDSE ST
41	Subtotal	SUBTOTAL
42	Total	***TOTAL
43	Change	CHANGE
44	Non add symbol (max. 8 characters)	#
45	Copy receipt title	COPY
46	Due (only display)	DUE
47	Receipt SW	RCP SW.
48	Non GST subtotal	GST EXPT
49	PST total	PST TTL
50	GST total	GST TTL
51	VAT exempt (for doughnut tax type 1)	VAT EXPT
52	Total tax (on receipt)	TOTAL TAX

Personnel Programming

Use the following procedure to select any option included in the personnel group:

Procedure

```

SETTING
1 DEPT/PLU
2 FUNCTIONS
3 MEDIA
4 FUNCTION TEXT
5 PERSONNEL
PGM 01
  
```



```

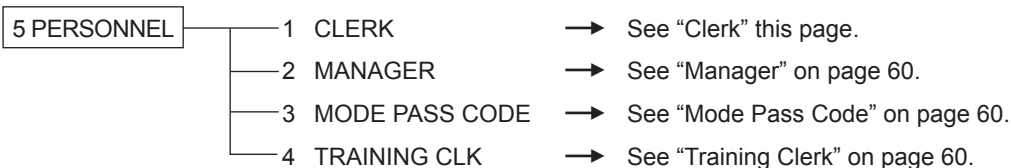
PERSONNEL
1 CLERK
2 MANAGER
3 MODE PASS CODE
4 TRAINING CLK
PGM 01
  
```

1. In the SETTING window, select "5 PERSONNEL."
• The PERSONNEL window will appear.

2. Select any option from the following options list.

1	CLERK	Clerk
2	MANAGER	Manager
3	MODE PASS CODE	Mode Pass Code
4	TRAINING CLK	Training Clerk

The following illustration shows those options included in this programming group.



■ Clerk

Procedure

```

CLERK
01 CLERK01
02 CLERK02
03 CLERK03
04 CLERK04
PGM 01
  
```

Select a clerk code, or directly enter a clerk code.



```

01 PASS CODE 0000
AUTO KEY CLERK01
          ENABLE
PGM 01
  
```

Program each item as follows:

- **PASS CODE (Use the numeric entry)**
Pass code (max. 4 digits: 0001 to 9999/0000)
- **Text (Use the character entry)**
Description for the clerk name (Up to 16 characters can be entered.)
- **AUTO KEY (Use the selective entry)**
ENABLE: Enables operation of the key.
DISABLE: Disables operation of the key.

NOTE To delete a clerk code in the "CLERK" window, select the clerk code and press the key. A confirmation window appears to ask you whether to delete the clerk, select the option you prefer.

■ Manager

You can program a secret code for manager.

Procedure

MANAGER	PASS CODE	0000
PGM		01

Program each item as follows:

- **PASS CODE (Use the numeric entry)**
Pass code (max. 4 digits: 0000 to 9999)

■ Mode Pass Code

You can program a secret code for each mode.

Procedure

MODE	PASS CODE	0000
VOID MODE		0000
OPXZ		0000
VIEW REPORT		0000
X1		0000
Z1		0000
X2Z2		0000
PGM		01

The screen continues.

Program each item as follows:

- **VOID MODE (Use the numeric entry)**
Pass code (max 4 digits: 0000 to 9999)
- **OPXZ (Use the numeric entry)**
Pass code (max 4 digits: 0000 to 9999)
- **VIEW REPORT (Use the numeric entry)**
Pass code (max 4 digits: 0000 to 9999)
- **X1 (Use the numeric entry)**
Pass code (max 4 digits: 0000 to 9999)
- **Z1 (Use the numeric entry)**
Pass code (max 4 digits: 0000 to 9999)
- **X2Z2 (Use the numeric entry)**
Pass code (max 4 digits: 0000 to 9999)
- **PROGRAM (Use the numeric entry)**
Pass code (max 4 digits: 0000 to 9999)
- **SD CARD (Use the numeric entry)**
Pass code (max 4 digits: 0000 to 9999)

■ Training Clerk

You can set the training clerk code and text for the training mode title.

Procedure

TRAINING CLK		
CODE		00
TEXT	TRAINING	
PGM		01

Program each item as follows:

- **CODE (Use the numeric entry)**
Clerk code in training (max. 2 digits: 00 to 25)
- **TEXT (Use the character entry)**
Description for the training mode title (Up to 12 characters can be entered.)

Terminal Programming

Use the following procedure to select any option included in the terminal group:

Procedure

```
SETTING          ▲▼
 6 TERMINAL
 7 DATE/TIME
 8 OPTIONAL
 9 REPORT
10 MESSAGE
PGM              01
```



```
TERMINAL
MACHINE#       000000
CONSECUTIVE#   000000
GT2            0.00
GT3            0.00
PGM            01
```

1. In the SETTING windows, select "6 TERMINAL."

- The TERMINAL windows will appear.

2. Select any option from the following options list:

- **MACHINE# (Use the numeric entry)**
Machine number (max. 6 digits: 0 to 999999)
- **CONSECUTIVE# (Use the numeric entry)**
Enter a number (max. 6 digits: 0 to 999999) that is the desired starting number.
- **GT2 (Use the numeric entry)**
Enter a number (max. 13 digits: 0 to 9999999999999)
- **GT3 (Use the numeric entry)**
Enter a number (max. 13 digits: 0 to 9999999999999)

Date/Time Setting

You can set the date and time for the register.

■ Date/time

Procedure

```
SETTING          ▲▼
 6 TERMINAL
 7 DATE/TIME
 8 OPTIONAL
 9 REPORT
10 MESSAGE
PGM              01
```



```
DATE/TIME
DATE           01/01/11
TIME <24HR>    0001
PGM            01
```

1. In the SETTING window, select "7 DATE/TIME".

- The DATE/TIME window will appear.

2. Set each item as follows:

- **DATE (Use the numeric entry)**
Enter the month (2 digits), day (2 digits), and year (2 digits) in this sequence.
- **TIME (24HR) (Use the numeric entry)**
Set the time (max. 4 digits) on the 24-hour system. For example, when the time is set to 2:30 AM, enter 0230; and when it is set to 2:30 PM, enter 1430. The time will be printed and displayed.

Optional Feature Selection

Use the following procedure to select any option included in the optional group:

Procedure

```

SETTING          ▲▼
 6 TERMINAL
 7 DATE/TIME
 8 OPTIONAL
 9 REPORT
10 MESSAGE
PGM              01
    
```



```

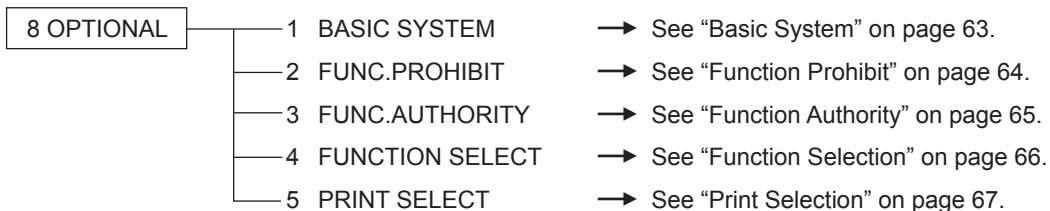
OPTIONAL
1 BASIC SYSTEM
2 FUNC.PROHIBIT
3 FUNC.AUTHORITY
4 FUNCTION SELECT
5 PRINT SELECT
PGM              01
    
```

1. In the SETTING window, select "8 OPTIONAL."
• The OPTIONAL window will appear.

2. Select any option from the following options list.

1	BASIC SYSTEM	Basic system
2	FUNC.PROHIBIT	Function prohibited
3	FUNC.AUTHORITY	Function authority
4	FUNCTION SELECT	Function selection
5	PRINT SELECT	Print selection

The following illustration shows those options included in this programming group.



■ Basic System

Your register allows you to select various item of basic system.

Procedure

```
BASIC SYSTEM          ▼
DATE FORMAT           MDY
TIME FORMAT           12-HOUR
ERROR                 LOCK ERROR
CURRENCY SYMBOL       $
TAB                   2
DECIMAL QUANTITY      YES
PGM                   01
```

The screen continues.

Program each item as follows:

- **DATE FORMAT (Use the selective entry)**

MDY: Display and print the month, day, and year in this order

DMY: Display and print the day, month and year in this order

YMD: Display and print the year, month, and day in this order

- **TIME FORMAT (Use the selective entry)**

12-HOUR: Display and print the time on 12-hour system

24-HOUR: Display and print the time on 24-hour system

- **ERROR (Use the selective entry)**

Response to an erroneous, invalid key operation

LOCK ERROR: Sound a short buzzer for 2 seconds, and display Error. To hide the Error display, press the **CL** key.

MISS OPE.: Sound a short buzzer

- **CURRENCY SYMBOL (Use the character entry)**

Enter the character (Max. 4 characters)

- **TAB (Use the selective entry)**

0

1

2

3

Position of price delimiter can be set. Setting options are 0, 1, 2, and 3.

When setting to "2" for example, the entry of "100" is displayed as "1.00".

- **DECIMAL QUANTITY (Use the selective entry)**

YES: Enables the decimal quantity

NO: Disables the decimal quantity

- **DECIMAL ROUND (Use the selective entry)**

ROUND: Round off the number

UP: Round up after the decimal point

DOWN: Round down after the decimal point.

- **[00] KEY (Use the selective entry)**

[00]: Display [00] by pressing the **00** key

[000]: Display [000] by pressing the **00** key

- **PRT/DSP EDIT (Use the selective entry)**

YES: All of printing and display are edited

NO: All of printing and display aren't edited

- **ITEM DISPLAY (Use the selective entry)**

2-LINE: The 1st line displays the quantity, price and amount. The 2nd line displays the text.

1-LINE: The quantity and text.

■ Function Prohibit

Your register allows you to select whether to enable or disable various functions.

Procedure

FUNC . PROHIBIT	
NON-ADD	ENABLE
NON-ADD + NS	ENABLE
MINUS DEPT	ENABLE
COPY RCPT	ENABLE
VOID MODE	ENABLE
SUBTOTAL<0	ENABLE
PGM	01

The screen continues.

Program each item as follows:

- **NON-ADD (Use the selective entry)**

ENABLE: Enable to enter Non-add code

DISABLE: Disable to enter Non-add code

- **NON-ADD + NS (Use the selective entry)**

ENABLE: Enable No sale after Non-add code entry

DISABLE: Disable No sale after Non-add code entry

- **MINUS DEPT (Use the selective entry)**

ENABLE: Enable to enter the minus department

DISABLE: Disable to enter the minus department

- **COPY RCPT (Use the selective entry)**

ENABLE: Enable the receipt copy function

DISABLE: Disable the receipt copy function

- **VOID MODE (Use the selective entry)**

ENABLE: Enable the void mode

DISABLE: Disable the void mode

- **SUBTOTAL<0 (Use the selective entry)**

ENABLE: Enable to go negative merchandise subtotal

DISABLE: Disable to go negative merchandise subtotal

- **TEND+DIRECT (Use the selective entry)**

ENABLE: Enable the direct non-tendering finalization after the previous tender entry

DISABLE: Disable the direct non-tendering finalization after the previous tender entry

■ Function Authority

Your register allows you to select whether to public or to limit function authority.

Procedure

FUNC . AUTHORITY	
RA	PUBLIC
PO	PUBLIC
REFUND	PUBLIC
ITEM VD	PUBLIC
SBTL VD	PUBLIC
NO SALE	PUBLIC
PGM	01

The screen continues.

Program each item as follows:

- **RA (Use the selective entry)**

LIMITED: Allowed only in the Manager mode.

PUBLIC: Allowed in the REG mode and the Manager mode.

- **PO (Use the selective entry)**

LIMITED: Allowed only in the Manager mode.

PUBLIC: Allowed in the REG mode and the Manager mode.

- **REFUND (Use the selective entry)**

LIMITED: Allowed only in the Manager mode.

PUBLIC: Allowed in the REG mode and the Manager mode.

- **ITEM VD (Use the selective entry)**

LIMITED: Allowed only in the Manager mode.

PUBLIC: Allowed in the REG mode and the Manager mode.

- **SBTL VD (Use the selective entry)**

LIMITED: Allowed only in the Manager mode.

PUBLIC: Allowed in the REG mode and the Manager mode.

- **NO SALE (Use the selective entry)**

LIMITED: Allowed only in the Manager mode.

PUBLIC: Allowed in the REG mode and the Manager mode.

- **TAX DELETE (Use the selective entry)**

LIMITED: Allowed only in the Manager mode.

PUBLIC: Allowed in the REG mode and the Manager mode.

- **MANUAL TAX (Use the selective entry)**

LIMITED: Allowed only in the Manager mode.

PUBLIC: Allowed in the REG mode and the Manager mode.

■ Function Selection

Your register enables you to select various functional selections.

Procedure

```
FUNCTION SELECT  F
SPLIT ENTRY    DISABLE
SPLIT COUNT    QUANTITY
VD MODE TO HOURLY NO
ST BEFORE DIRECT NOT
ST BEFORE TEND  NOT
NS RECEIPT      PRINT
PGM              01
```

The screen continues.

Program each item as follows:

- **SPLIT ENTRY (Use the selective entry)**
ENABLE: Enable the split pricing entry
DISABLE: Disable the split pricing entry
- **SPLIT COUNT (Use the selective entry)**
Count method of split pricing entry.
PACKAGE: Unit of the package
QUANTITY: Quantity

- **VD MODE TO HOURLY (Use the selective entry)**
YES: Enable to add to the hourly total in void mode.
NO: Disable to add to the hourly total in void mode.
- **ST BEFORE DIRECT (Use the selective entry)**
Subtotal entry before direct non-tendering finalization
NOT: Not to require entry of subtotal for the non-tendering finalization
MUST: Require entry of subtotal for the non-tendering finalization
- **ST BEFORE TEND (Use the selective entry)**
Subtotal entry before tender
NOT: Not to require entry of subtotal for the tendering finalization
MUST: Require entry of subtotal for the tendering finalization
- **NS RECEIPT (Use the selective entry)**
Printing the receipt at the time of No Sale
PRINT: Print the receipt
NOT: Not to print the receipt
- **AFTER TRANS. (Use the selective entry)**
TOTAL: Print the total only on the after transaction receipt
DETAIL: Print the details on the after transaction receipt
- **E.J. FULL (Use the selective entry)**
When the EJ file is full, whether to lock the item entry or not.
LOCK: Lock the item entry
CONTINUE: Not to lock the item entry

■ Print Selection

You can program various printing functions.

Procedure

```
PRINT SELECT
CONSECUTIVE NO. YES
DATE YES
TIME YES
PURCHASE NO. YES
TAX STATUS YES
TAX 1 to 4
PGM 01
```

The screen continues.

Program each item as follows:

- **CONSECUTIVE NO. (Use the selective entry)**

YES: Print the consecutive No.

NO: Not to print the consecutive No.

- **DATE (Use the selective entry)**

YES: Print the date

NO: Not to print the date

- **TIME (Use the selective entry)**

YES: Print the time

NO: Not to print the time

- **PURCHASE NO. (Use the selective entry)**

YES: Print the number of the purchase No.

NO: Not to print the number of the purchase No.

- **TAX STATUS (Use the selective entry)**

YES: Print the tax status

NO: Not to print the tax status

- **TAX (Use the selective entry)**

Tax print format

1 to 4: Print order tax1 to tax4

4 to 1: Print order tax4 to tax1

TOTAL: Print total tax

- **TAX (TAXABLE=0) (Use the selective entry)**

YES: Print the tax amount (when the taxable amount is zero.)

NO: Not to print the tax amount (when the taxable amount is zero.)

- **TAX (TAX=0) (Use the selective entry)**

YES: Print the tax amount (when the tax amount is zero.)

NO: Not to print the tax amount (when the tax amount is zero.)

- **ST AT ST KEY (Use the selective entry)**

YES: Print the subtotal using the key

NO: Not to print the subtotal using the key

- **LOGO FORM (Use the selective entry)**

PATTERN 1: 3 line text header

PATTERN 2: Image logo header

PATTERN 3: Image logo header + 3 line text footer

PATTERN 4: 6 line text header

PATTERN 5: Image logo header + 3 line text header

PATTERN 6: 3 line text header + 3 line text footer

- **FOOTER (Use the selective entry)**

ALL: Print the footer in any media

BY MEDIA: Print the footer by media

- **0 AMT PLU (Use the selective entry)**

When the PLU unit price is 0, printing the amount is:

TEXT ONLY: Print the text only

NORMAL: Print the price and the text

- **ITEM JOURNAL (Use the selective entry)**

ALL: Print all items on electronic journal

SELECT: Print the selected items other than "+"
dept./PLU on electronic journal (summary journal)

- **LOGO ON JOURNAL (Use the selective entry)**

YES: Print the logo text on electronic journal

NO: Not to print the logo text on electronic journal

- **CONV. SHORT TEND (Use the selective entry)**

PRINT: Print subtotal after short tendering by currency conversion

NOT: Not to print subtotal after short tendering by currency conversion

- **GST VAT PRINT (Use the selective entry)**

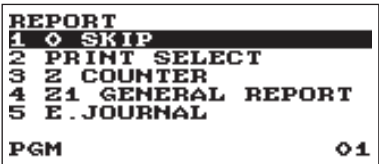
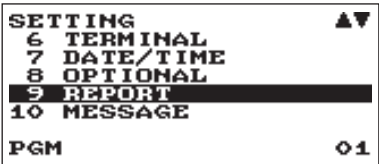
YES: Print the tax when the GST is VAT

NO: Not to print the tax when the GST is VAT

Report Programming

Use the following procedure to select any option included in the report group:

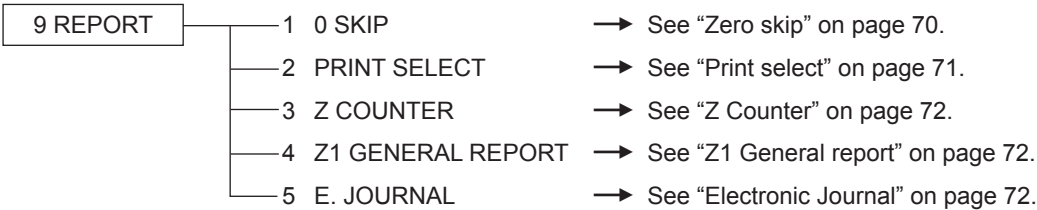
Procedure



1. In the SETTING window, select “9 REPORT.”
 - The REPORT window will appear.
2. Select any option from the following options list:

1	0 SKIP	Zero skip
2	PRINT SELECT	Print select
3	Z COUNTER	Z counter
4	Z1 GENERAL REPORT	Z1 General report
5	E. JOURNAL	Electronic journal

The following illustration shows those options included in this programming group.



■ Zero skip

You can program whether or not to skip “0” in each report.

Procedure

0 SKIP	SKIP
DEPARTMENT	SKIP
TRANSACTION	SKIP
PLU	SKIP
CLERK	SKIP
HOURLY	SKIP
PGM	01

Program each item as follows:

• DEPARTMENT (Use the selective entry)

SKIP: Skips those data that are “0” in the department report.

NOT SKIP: Does not skip those data that are “0” in the department report.

• TRANSACTION (Use the selective entry)

SKIP: Skips those data that are “0” in the transaction report.

NOT SKIP: Does not skip those data that are “0” in the transaction report.

• PLU (Use the selective entry)

SKIP: Skips those data that are “0” in the PLU report.

NOT SKIP: Does not skip those data that are “0” in the PLU report.

• CLERK (Use the selective entry)

SKIP: Skips those data that are “0” in the clerk report.

NOT SKIP: Does not skip those data that are “0” in the clerk report.

• HOURLY (Use the selective entry)

SKIP: Skips those data that are “0” in the hourly report.

NOT SKIP: Does not skip those data that are “0” in the hourly report.

■ Print select

You can program whether or not to print the item on the report.

Procedure

PRINT SELECT	▼
Z COUNTER	YES
GT1 ON Z	YES
GT2 ON Z	YES
GT3 ON Z	YES
TR GT ON Z	YES
VD MODE ON X1Z1	YES
PGM	01

The screen continues.

Program each item as follows:

- **Z COUNTER (Use the selective entry)**

YES: Print the Z counter on the Z report.

NO: Not to print the Z counter on the Z report.

- **GT1 ON Z (Use the selective entry)**

YES: Print GT1 on the Z report.

NO: Not to print GT1 on the Z report.

- **GT2 ON Z (Use the selective entry)**

YES: Print GT2 on the Z report.

NO: Not to print GT2 on the Z report.

- **GT3 ON Z (Use the selective entry)**

YES: Print GT3 on the Z report.

NO: Not to print GT3 on the Z report.

- **TR GT ON Z (Use the selective entry)**

YES: Print the training GT on the Z report.

NO: Not to print the training GT on the Z report.

- **VD MODE ON X1Z1 (Use the selective entry)**

YES: Print total of VOID MODE on X1Z1 report

NO: Not to print total of VOID MODE on X1Z1 report

- **VD MODE ON X2Z2 (Use the selective entry)**

YES: Print total of VOID MODE on X2Z2 report

NO: Not to print total of VOID MODE on X2Z2 report

- **PLU DATA ON Z (Use the selective entry)**

YES: Print PLU data on the PLU Z report.

NO: Not to print PLU data on the PLU Z report.

- **EJ SIZE (Use the selective entry)**

SMALL: Print electronic journal in a small size.

NORMAL: Print electronic journal in a normal size.

- **GST EXEMPT ON XZ (Use the selective entry)**

YES: Print GST EXEMPT data on X/Z report.

NO: Not to print GST EXEMPT data on X/Z report.

■ Z Counter

Procedure

```
Z COUNTER
GENERAL Z1      0000
GENERAL Z2      0000

PGM              01
```

GENERAL Z1: Max.4 digits (0000 to 9999)

GENERAL Z2: Max.4 digits (0000 to 9999)

■ Z1 General report

Procedure

```
Z1 GENERAL REPORT
SD: SAVE SALES  NO
SD: SAVE EJ    NO
SD: SAVE ALL RAM NO
CLEAR EJ       NO
RESET GT       NO

PGM              01
```

- **SD: SAVE SALES (Use the selective entry)**

YES: Save the sales data in the SD card.

NO: Not to save the sales data in the SD card.

- **SD: SAVE EJ (Use the selective entry)**

YES: Save the electronic journal data in the SD card.

NO: Not to save the electronic journal data in the SD card.

- **SD: SAVE ALL RAM (Use the selective entry)**

YES: Save the all RAM data in the SD card.

NO: Not to save the all RAM data in the SD card.

- **CLEAR EJ (Use the selective entry)**

YES: Clear the electronic journal data

NO: Not to clear the electronic journal data

- **RESET GT (Use the selective entry)**

YES: Reset the GT

NO: Not to reset the GT

■ Electronic Journal

Procedure

```
E. JOURNAL
STORE TO SD  W SPACE
TR DATA STORE YES
X DATA STORE  HEADER

PGM              01
```

Program each item as follows:

- **STORE TO SD (Use the selective entry)**

When the EJ data is recorded on the SD card:

AS IS: Control characters are recorded as they are

W SPACE: Control characters are recorded as space.

- **TR DATA STORE (Use the selective entry)**

YES: Record the electronic journal data in the training mode.

NO: Not to record the electronic journal data in the training mode.

- **X DATA STORE (Use the selective entry)**

When the X report data in the electronic journal is recorded:

HEADER: Record only the header of X report in the electronic journal

DETAIL: Record the detail of X report in the electronic journal

Message Programming

Use the following procedure to select any option included in the message group:

Procedure

```

SETTING
6  TERMINAL
7  DATE/TIME
8  OPTIONAL
9  REPORT
10 MESSAGE
PGM                                01
  
```



```

MESSAGE
1 RECEIPT LOGO
PGM                                01
  
```

1. In the SETTING window, select "10 MESSAGE."
• The MESSAGE window will appear.

2. Select any option from the following options list:

1 RECEIPT LOGO Receipt logo

The following illustration shows those options included in this programming group.

10 MESSAGE ——— 1 RECEIPT LOGO ➔ See "Receipt logo" this page.

■ Receipt logo

Your register can print programmed messages for customers on every receipt.
The logo text is printed in a centering form on the receipt.

Procedure

```

RECEIPT LOGO
BUSINESS
ADDRESS 1
ADDRESS 2
TELEPHONE
MESSAGE 1
MESSAGE 2
PGM                                A 01
  
```

Program each item as follows:

- **RECEIPT LOGO (Use the character entry)**
Logo text for the receipt (max. 30 characters x 6 lines)

NOTE

- The programmable number of lines for a message varies according to the following message types:
PATTERN 1: 3 line text header
PATTERN 2: Image logo header
PATTERN 3: Image logo header + 3 line text footer
PATTERN 4: 6 line text header
PATTERN 5: Image logo header + 3 line text header
PATTERN 6: 3 line text header + 3 line text footer
- For the footer printing, a series of "=" (character code: 061)" character (over 4 characters) will be replaced with a clerk name in present use.

Device Configuration Programming

Use the following procedure to select a device configuration programming:

Procedure

```

SETTING          ▲
 9 REPORT
10 MESSAGE
11 DEVICE CONFIG
12 TAX
13 AUTO KEY
PGM              01
    
```



```

DEVICE CONFIG    ▼
1 KEYBOARD
2 DISPLAY
3 PRINTER
4 EFT
5 RS PORT
PGM              01
    
```

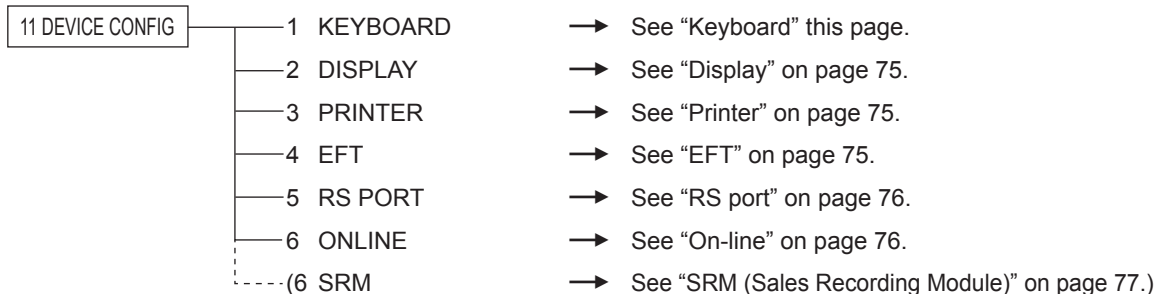
The screen continues.

1. In the SETTING window, select "11 DEVICE CONFIG."
 - The DEVICE CONFIG window will appear.

2. Select any option from the following options list:

1	KEYBOARD	Keyboard
2	DISPLAY	Display
3	PRINTER	Printer
4	EFT	EFT
5	RS PORT	RS port
6	ONLINE	On-line
(6	SRM	SRM (Sales Recording Module))

The following illustration shows those options included in this programming group.



NOTE

- The EFT function is not appeared in the Quebec fiscal type.
- The SRM function is appeared in the Quebec fiscal type only.
- For enable/disable of the Quebec fiscal mode, please contact your authorized SHARP dealer.

Keyboard

Procedure

```

KEYBOARD
BUFFERING        YES
TOUCH SOUND      YES
PGM              01
    
```

Program each item as follows:

• BUFFERING (Use the selective entry)

- YES: Enables the buffering keyboard.
- NO: Disables the buffering keyboard.

• TOUCH SOUND (Use the selective entry)

- YES: Set to sound
- NO: Not to sound

■ Display

Procedure

```
DISPLAY          02
POWER SAVE      YES
P.SAVE AT TM
PGM             01
```

Program each item as follows:

- **POWER SAVE (Use the numeric entry)**
Time of the power save (2 digits: 0,1 to 99 minutes 0:100 minutes)
- **P. SAVE AT TM (Use the selective entry)**
Power saving during time display:
YES: Enables power saving during time display
NO: Disables power saving during time display

■ Printer

Procedure

```
PRINTER          50
DENSITY
PGM             01
```

Program each item as follows:

- **DENSITY (Use the numeric entry)**
Select a density level (2 digits: 00 to 99)
00: 89% for standard
50: 100% for standard
99: 111% for standard

■ EFT

Procedure

```
EFT
CHARGE           NOT
TIME OUT1        010
TIME OUT2        099
TIME OUT3        0099
PGM             01
```

Program each item as follows:

- **CHARGE (Use the selective entry)**
USED: Credit/Debit
NOT: Not to assign for credit/debit.
- **TIME OUT1 (Use the numeric entry)**
Time out timer for ACK/NAK
(3 digits: 1 to 255 (sec))
- **TIME OUT2 (Use the numeric entry)**
Time out timer for response of authorization
(3 digits: 1 to 255 (sec))
- **TIME OUT3 (Use the numeric entry)**
Time out timer for batch close
(4 digits: 1 to 3000 (sec))

NOTE

- The EFT function is not appeared in the Quebec fiscal type.
- For enable/disable of the Quebec fiscal mode, please contact your authorized SHARP dealer.

■ RS port

Procedure

```

RS PORT
USE                               ONLINE

PGM                               01
  
```

Program each item as follows:

• USE (Use the selective entry)

EFT: EFT
 ONLINE: On-line

NOTE For the Quebec fiscal type is as follows.

Procedure

```

RS PORT
USE                               ONLINE

PGM                               01
  
```

Program each item as follows:

• USE (Use the selective entry)

SRM: SRM (ECR → SRM → Printer)
 CONTINUOUS: Disconnection of the SRM (ECR → Printer)
 ONLINE: On-line

■ On-line

Procedure

```

ONLINE
TERMINAL No. 0000001
CI SIGNAL    NON
LINE FORM    FULL
BAUD RATE    19200
START CODE   002
END CODE     013
PGM          01
  
```

Program each item as follows:

• TERMINAL No. (Use the numeric entry)

Terminal number (6 digits: 0 to 999999).

• CI SIGNAL (Use the selective entry)

Sensing of the CI signal
 NON: Disables sensing of the CI signal
 SENSING: Enables sensing of the CI signal

The screen continues.

• LINE FORM (Use the selective entry)

Programming of the modem control
 FULL: Full duplex system
 HALF: Half duplex system

• BAUD RATE (Use the selective entry)

Transmission data rate
 38400 bps 19200 bps
 9600 bps 4800 bps

• START CODE (Use the numeric entry)

Start code (3 digits: 0 to 127)

• END CODE (Use the numeric entry)

End code (3 digits: 0 to 127)

• TIME OUT (Use the numeric entry)

Programming of the time-out time (3 digits: 1 to 255 sec.)

■ SRM (Sales Recording Module)

Procedure

SRM	
PRINTER	T88(3)
AUTO CUT	NO
PGM	01

Program each item as follows:

- **PRINTER (Use the selective entry)**

T88(3)+LOGO

T88(3)

- **AUTO CUT (Use the selective entry)**

YES: The auto-cut function is used.

NO: The auto-cut function is not used.

NOTE

- The SRM function is appeared in the Quebec fiscal type only.
- For enable/disable of the Quebec fiscal mode, please contact your authorized SHARP dealer.

Tax Programming

Use the following procedure to select any option included in the tax group:

NOTE *The register is adapted to US and Canadian tax systems. If the Canadian tax system is required, the tax system must be changed (see page 79 for tax system selections), then program the tax rate or tax table and quantity for doughnut exempt which are described in this section.*

Prior to the entry of sales transactions, the tax programming must be performed in accordance with the laws of the state. The register is provided with programming four different tax rate. The one-tax system is sufficient to cover most areas. However, in some areas that has a separate local tax (such as a Parish tax) or a hospitality tax, the multi-tax system is useful.

If the taxable item is entered, the tax will be automatically added to merchandise subtotal according to the programmed tax status for the department. The tax can be also entered manually.

The register is provided with two types of tax programming methods. The % tax method is used for a straight percentage rate per dollar. The table tax method requires tax break information from the state or local tax offices. Use the method which is acceptable in the state. The necessary data of tax programming will be presented at local tax office.

Procedure

```

SETTING          ▲
 9 REPORT
10 MESSAGE
11 DEVICE CONFIG
12 TAX
13 AUTO KEY
PGM              01
    
```



```

TAX
1 TAX SYSTEM
2 TAX1
3 TAX2
4 TAX3
5 TAX4
PGM              01
    
```

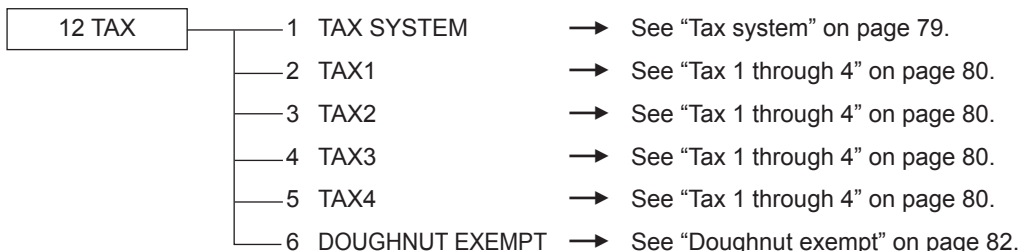
The screen continues.

1. In the SETTING window, select "12 TAX."
 - The TAX window will appear.

2. Select any option from the following options list:

1	TAX SYSTEM	Tax system
2	TAX1	Tax1
3	TAX2	Tax2
4	TAX3	Tax3
5	TAX4	Tax4
6	DOUGHNUT EXEMPT	Doughnut exempt

The following illustration shows those options included in this programming group.



■ Tax system

Procedure

TAX SYSTEM	AUTO TAX
PGM	01

• Tax system (Use the selective entry)

Selection of the tax system

AUTO TAX

CANADA TAX 01

CANADA TAX 02

CANADA TAX 03

CANADA TAX 04

CANADA TAX 05

CANADA TAX 06

CANADA TAX 07

CANADA TAX 08

CANADA TAX 09

CANADA TAX 10

CANADA TAX 11

NOTE Tax system:

• For US tax system, select "AUTO TAX".

• For Canadian tax, from the table below, specify a tax system suitable for your province (if necessary contact your local tax office for correct sales tax information) and for your type of retail business.

In the register, four kinds of tax can be programmed and each tax is arranged to match GST or PST as follows:

TAX1: PST, TAX2: PST, TAX3: PST or GST, TAX4: GST

(The most common type for Canada is type "CANADA TAX 06".)

	TAX1	TAX2	TAX3	TAX4
AUTO TAX	Add on tax	Add on tax	Add on tax	Add on tax
CANADA TAX 01	PST (Add on tax)*	PST (Add on tax)*	GST (VAT)	GST (VAT)
CANADA TAX 02	PST (Add on tax)	PST (Add on tax)	GST (VAT)	GST (VAT)
CANADA TAX 03	PST (Add on tax)*	PST (Add on tax)*	PST (Add on tax)*	GST (VAT)
CANADA TAX 04	PST (Add on tax)	PST (Add on tax)	PST (Add on tax)	GST (VAT)
CANADA TAX 05	PST (Add on tax)*	PST (Add on tax)*	PST (Add on tax)*	GST (Add on tax)
CANADA TAX 06	PST (Add on tax)	PST (Add on tax)	PST (Add on tax)	GST (Add on tax)
CANADA TAX 07	PST (Add on tax)*	PST (Add on tax)*	GST (VAT)	GST (Add on tax)
CANADA TAX 08	PST (Add on tax)	PST (Add on tax)	GST (VAT)	GST (Add on tax)
CANADA TAX 09	PST (Add on tax)*	PST (Add on tax)*	GST (Add on tax)	GST (Add on tax)
CANADA TAX 10	PST (Add on tax)	PST (Add on tax)	GST (Add on tax)	GST (Add on tax)
CANADA TAX 11	PST (Add on tax)*	PST (Add on tax)*	PST (VAT)	GST (VAT)

NOTE

* Tax on tax system: If the "PST taxable & GST (add on tax) taxable" item is entered, GST tax is imposed on PST tax.

■ Tax 1 through 4

Procedure

```
TAX1
1 TABLE TAX
2 %TAX

PGM                                01
```



(To the following table tax or % tax)

• Table tax

Procedure

```
TABLE TAX
1 INTERVAL LOW 0.99
2 INTERVAL OVR 1.00

PGM                                01
```



```
TABLE TAX
TAX RATE      0.0000%
CYCLE         0.00
INITIAL TAX   0.00
LOWER TAX     0.00
BREAK POINT1  0.00
BREAK POINT2  0.00
PGM           01
```

The screen continues.

Selection of tax method

TABLE TAX: Programmed tax table is used.

% TAX: Programmed % tax rate is used.

Selection of the interval

• INTERVAL (Use the selective entry)

LOW 0.99: Less than 0.99 (max. 72 break points)

OVR 1.00: More than 1.00 (max. 36 break points)

Program each item as follows:

• TAX RATE (Use the numeric entry)

Tax rate (max. 7 digits: 0.0000 to 999.9999%).

• CYCLE (Use the numeric entry)

Tax table cycle (max. 4 digits: 0.01 to 99.99).

• INITIAL TAX (Use the numeric entry)

Initial tax (max. 3 digits: 0.01 to 9.99).

• LOWER TAX (Use the numeric entry)

Lowest taxable amount (max. 5 digits: 0.00 to 999.99).

• BREAK POINT1 through 72 (Use the numeric entry)

Break point amount (max. 5 digits: 0.01 to 999.99).

The programming data of tax table are as follows.

<Sample tax table>

Tax table: 6%

To program a tax table, first make a table like the right table shown below.

Range of sales amount					
Taxes	Minimum breakpoint		Maximum breakpoint	A: Difference between the minimum breakpoint and the next one (¢)	
.00	.01	to	.10	—	B: Non-cyclic
.01—T	.11—Q	to	.22	10 (0.11 - 0.01)	
.02	.23	to	.38	12 (0.23 - 0.11)	C: Cyclic-1
.03	.39	to	.56	16 (0.39 - 0.23)	
.04	.57	to	.72	18 (0.57 - 0.39)	
.05	.73	to	.88	16 (0.73 - 0.57)	
.06	.89	to	1.10	16 (0.89 - 0.73)	
.07	1.11—M1	to	1.22	22 (1.11 - 0.89)	
.08	1.23	to	1.38	12 (1.23 - 1.11)	D: Cyclic-2
.09	1.39	to	1.56	16 (1.39 - 1.23)	
.10	1.57	to	1.72	18 (1.57 - 1.39)	
.11	1.73	to	1.88	16 (1.73 - 1.57)	
.12	1.89	to	2.10	16 (1.89 - 1.73)	
.13	2.11—M2	to	2.22	22 (2.11 - 1.89)	

From the tax table, calculate the differences between a minimum break point and the next one (A). Then, from the differences, find irregular cycles (B) and regular cycles (C and D). These cycles will show you the following items necessary to program the tax table:

- T:** The tax amount collected on the minimum taxable amount (Q) → **INITIAL TAX**
- Q:** The minimum taxable amount → **LOWER TAX**
- M1:** The maximum value of the minimum breakpoint on a regular cycle (C)
We call this point "MAX point."
- M2:** The maximum value of the minimum breakpoint on a regular cycle (D)
We call this point "MAX point."
- M:** Range of the minimum breakpoint on a regular cycle: difference between Q and M1 or between M1 and M2 → **CYCLE**

Example data of tax table (6%)

TAX RATE: 6.0000 (enter 6)
CYCLE: 1.00 (enter 100)
INITIAL TAX: 0.01 (enter 1)
LOWER TAX: 0.11 (enter 11)
BREAK POINT1: 0.23 (enter 23)
BREAK POINT2: 0.39 (enter 39)
BREAK POINT3: 0.57 (enter 57)
BREAK POINT4: 0.73 (enter 73)
BREAK POINT5: 0.89 (enter 89)
BREAK POINT6: 1.11 (enter 111)

NOTE If the tax is not provided for every cent, modify the tax table by setting the tax for every cent in the following manner.

When setting the tax, consider the minimum breakpoint corresponding to unprovided tax to be the same as the one corresponding to the tax provided on a large amount.

Sample tax table
Example 8%

Tax	Minimum breakpoint
.00	.01
.01	.11
.02	.26
.03	.47
.04	.68
.06	.89
.09	1.11
.10	1.26
.11	1.47
.12	1.68
.14	1.89
.17	2.11

Modification of the left tax table

Tax	Minimum breakpoint
.00	.01
.01—T	.11—Q
.02	.26
.03	.47
.04	.68
.05	.89
.06	.89
.07	1.11—M1
.08	1.11
.09	1.11
.10	1.26
.11	1.47
.12	1.68
.13	1.89
.14	1.89
.15	2.11—M2
.16	2.11
.17	2.11



Breakpoint difference (¢)	
1	
10 (0.11-0.01)	B: Non-cyclic
15 (0.26-0.11)	
21 (0.47-0.26)	
21 (0.68-0.47)	
21 (0.89-0.68)	
0 (0.89-0.89)	C: Cyclic-1
22 (1.11-0.89)	
0 (1.11-1.11)	
0 (1.11-1.11)	
15 (1.26-1.11)	
21 (1.47-1.26)	
21 (1.68-1.47)	
21 (1.89-1.68)	
0 (1.89-1.89)	D: Cyclic-2
22 (2.11-1.89)	
0 (2.11-2.11)	
0 (2.11-2.11)	

Example data of above tax table (8%)

TAX RATE: 8.0000 (enter 8)
CYCLE: 1.00 (enter 100)
INITIAL TAX: 0.01 (enter 1)
LOWER TAX: 0.11 (enter 11)
BREAK POINT1: 0.26 (enter 26)
BREAK POINT2: 0.47 (enter 47)
BREAK POINT3: 0.68 (enter 68)
BREAK POINT4: 0.89 (enter 89)
BREAK POINT5: 0.89 (enter 89)
BREAK POINT6: 1.11 (enter 111)
BREAK POINT7: 1.11 (enter 111)
BREAK POINT8: 1.11 (enter 111)

• % Tax

Procedure

```

%TAX
TAX RATE      0.0000%
LOWER TAX      0.00

PGM           01
  
```

Program each item as follows:

- **TAX RATE (Use the numeric entry)**
Tax rate (max. 7 digits: 0.0000 to 999.9999%).
- **LOWER TAX (Use the numeric entry)**
Lowest taxable amount (max. 5 digits: 0.00 to 999.99).

■ **Doughnut exempt**

Procedure

```

DOUGHNUT EXEMPT
QUANTITY      00

PGM           01
  
```

Program each item as follows:

- **QUANTITY (Use the numeric entry)**
Quantity for doughnut tax exempt (2 digits: 1 to 99/0).

NOTE The programming is effective for "taxable 1 & taxable 3" items on Canadian tax (CANADA TAX 01 or CANADA TAX 10).

Automatic Sequencing Key Programming

If you program frequently performed key operations for the **AUTO** key, you can enter those key operations simply by pressing the corresponding **AUTO** key in key operations.

■ Key Sequence

Procedure

```

SETTING          ▲
 9 REPORT
10 MESSAGE
11 DEVICE CONFIG
12 TAX
13 AUTO KEY
PGM              01
    
```



```

AUTO KEY
PGM              01
    
```

1. In the SETTING window, select "13 AUTO KEY."
 • The AUTO KEY window will appear.
2. Enter the key operation sequence by any key except the **AUTO** key.
 The register allows to program up to 25 keys for the **AUTO** key.
3. To terminate the procedure enter the **AUTO** key, the confirmation window will appear for sequence data saving. Select "SAVE" or "ABANDON" and enter the **CA/AT/NS** key.

Example

In case of the X1 General report printing.

```

AUTO KEY
 2 4 KEY
 3 CA/AT/NS
 4 2 KEY
 5 CA/AT/NS
 6 1 KEY
PGM              01
    
```

Key operation

```

MODE
4=(select X1/Z1 MODE)
CA/AT/NS
2=(select READING)
CA/AT/NS
1=(select GENERAL)
AUTO CA/AT/NS
    
```

Reading of Stored Programs

You can read programs stored in the PROGRAM mode.

■ Program reading sequence

To read those programs stored in the PROGRAM mode, use the following procedure:

1. Select the PROGRAM mode from the mode selection window.
2. Select "1 READING" from the PROGRAM mode to display the items list, and press the **CA/AT/NS** key.
Select an item listed in the table shown later.

Item:	Description:
1 DEPARTMENT	Department (Full or specified range)
2 PLU	PLU (Full or specified range)
3 FUNCTIONS	Function
4 MEDIA	Media
5 FUNCTION TEXT	Function Text
6 CLERK	Clerk
7 MANAGER	Manager
8 MODE PASS CODE	Mode pass code
9 TRAINING CLK	Training clerk
10 OPTIONAL	Optional feature
11 REPORT	Report setting
12 MESSAGE	Message
13 DEVICE CONFIG	Device configuration
14 TAX	Tax
15 AUTO KEY	Auto key
16 ROM VERSION	ROM version

■ Sample printouts

• Departments

Operating mode	*PGM*				
Report type	DEPARTMENT				Tax status
Dept. code	D01			0.00	Unit price
Description	DEPT. 01	T1	01		Function programming
		L999999.99			01 Amount entry type (0:Inhibit 1:Open 2:Preset 3:Open&Preset)
	D02			0.00	SICS (0:No 1:Yes)
	DEPT. 02	T1	01		HALO limit
		L999999.99			
	D03			0.00	
	DEPT. 03	T1	01		
		L999999.99			
	D98			0.00	
	DEPT. 98	T1	01		
		L999999.99			
	D99			0.00	
	DEPT. 99	T1	01		
		L999999.99			

• PLU

Report type	*PGM*				
	PLU				
PLU code	P00001	(01)	2		Associated dept. code
Description	PLU00001		125.20		Amount entry type
	P00002	(01)	2		Unit price
	PLU00002		5.10		
	P00003	(01)	2		
	PLU00003		1.10		
	P00004	(01)	2		
	PLU00004		0.00		
	P00005	(01)	2		
	PLU00005		2.25		
	P00006	(01)	2		
	PLU00006		3.00		
	P00007	(01)	2		
	PLU00007		2.10		
	P00008	(01)	2		
	PLU00008		0.00		
	P00009	(01)	2		
	PLU00009		0.00		
	P00010	(01)	2		
	PLU00010		8.20		

• Functions

PGM	
FUNCTIONS	Report type
(-)	Sign (plus/minus)
IS	Function text
%1	-0.00%
S	L100.00%
%2	-0.00%
I	L100.00%
M-TAX	L999999.99
***RA	L999999.99
***PD	L999999.99
****CID	L999999.99

Type I=Item S=Subtotal
Rate
HALO limit

• Media

PGM	
MEDIA	Report type
	HALO
CASH	L999999.99 00
CHECK	L999999.99 00
CHARGE	L999999.99 00
CHARGE-	
PRESET RATE	ENABLE
CONV 1	€ 0.000000 2
OPEN RATE	ENABLE
CONV 2	2

Programming data (00)
Function text
Entry of amount tendered
(0:Non-Compulsory, 1:Compulsory)
Footer print on receipt
(0:No, 1:Yes)
Tab
Entry of amount tendered
(0:Inhibit, 1:Compulsory)
Footer print on receipt
(0:No, 1:Yes)
Rate
Foreign currency symbol
(Printed if programmed)

• Function text

PGM	
FUNCTION TEXT	
NET1	NET1
TAX1 ST	TAX1 ST
GRS TAX1	GRS TAX1
RFD TAX1	RFD TAX1
TAX1	TAX1
TX1 EXPT	TX1 EXPT
TAX2 ST	TAX2 ST
GRS TAX2	GRS TAX2
RFD TAX2	RFD TAX2
TAX2	TAX2
TX2 EXPT	TX2 EXPT
TAX3 ST	TAX3 ST
GRS TAX3	GRS TAX3
RFD TAX3	RFD TAX3
TAX3	TAX3
TX3 EXPT	TX3 EXPT
TAX4 ST	TAX4 ST
GRS TAX4	GRS TAX4
RFD TAX4	RFD TAX4
TAX4	TAX4
TX4 EXPT	TX4 EXPT
GRS MTAX	GRS MTAX
RFD MTAX	RFD MTAX
TTL TAX	TTL TAX
NET	NET
NET2	NET2

Report type
Function
Text

REFUND	REFUND
VOID	VOID
VOID	VOID
MGR VOID	MGR VOID
SBTL VOID	SBTL VOID
NO SALE	NO SALE
TRANS CT	TRANS CT
NET3	NET3
CA+CHK ID	CA+CHK ID
CHK/CG	CHK/CG
*DEPT TL	*DEPT TL
DEPT (-)	DEPT (-)
ITEMS	ITEMS
MDSE ST	MDSE ST
SUBTOTAL	SUBTOTAL
***TOTAL	***TOTAL
CHANGE	CHANGE
#	#
COPY	COPY
DUE	DUE
RCP SW.	RCP SW.
VAT EXPT	VAT EXPT
TOTAL TAX	TOTAL TAX

NOTE The text of "GST EXMPT", "PST TTL" and "GST TTL" appears only when Canadian tax is selected.

• Clerk

PGM	
CLERK	
CLK#01	CLERK01
	0 0000
CLK#02	CLERK02
	0 0000
CLK#03	CLERK03
	0 0000
CLK#23	CLERK23
	0 0000
CLK#24	CLERK24
	0 0000
CLK#25	CLERK25
	0 0000

Report type
Clerk code
Clerk name
Auto key operation
/Pass code
(0: Enable)
(1: Disable)

• Manager

PGM	
MANAGER	
PASS CODE	9999

Report type
Pass code

• Mode pass code

PGM	
MODE PASS CODE	
VOID MODE	2222
OPXZ	0000
VIEW REPORT	0000
X1	0000
Z1	0000
X222	0000
PROGRAM	1230
SD CARD	7777

• Training clerk

PGM	
TRAINING CLK	
CODE	00
TEXT	TRAINING

• Optional feature

PGM	
OPTIONAL	
BASIC SYSTEM	
DATE FORMAT	MDY
TIME FORMAT	12-HOUR
ERROR	LOCK ERROR
CURRENCY SYMBOL	\$
TAB	2
DECIMAL QUANTITY	YES
DECIMAL ROUND	ROUND
[00]KEY	[00]
PRT/DSP EDIT	YES
ITEM DISPLAY	2-LINE
FUNC. PROHIBIT	
NON-ADD	ENABLE
NON-ADD + NS	ENABLE
MINUS DEPT	ENABLE
COPY RCPT	ENABLE
VOID MODE	ENABLE
SUBTOTAL<0	ENABLE
TEND+DIRECT	ENABLE
FUNC. AUTHORITY	
RA	PUBLIC
PO	PUBLIC
REFUND	PUBLIC
ITEM VD	PUBLIC
SBTL VD	PUBLIC
NO SALE	PUBLIC
TAX DELETE	PUBLIC
MANUAL TAX	PUBLIC

FUNCTION SELECT	
SPLIT ENTRY	DISABLE
SPLIT COUNT	QUANTITY
VD MODE TO HOURLY	NO
ST BEFORE DIRECT	NOT
ST BEFORE TEND	NOT
NS RECEIPT	PRINT
AFTER TRANS.	DETAIL
E. J. FULL	CONTINUE
PRINT SELECT	
CONSECUTIVE NO.	YES
DATE	YES
TIME	YES
PURCHASE NO.	YES
TAX STATUS	YES
TAX	1 to 4
TAX(TAXABLE=0)	NO
TAX(TAX=0)	NO
ST AT ST KEY	NO
LOGO FORM	PATTERN6
FOOTER	ALL
O AMT PLU	TEXT ONLY
ITEM JOURNAL	ALL
LOGO ON JOURNAL	NO
CONV. SHORT TEND	PRINT
GST VAT PRINT	YES

• Report setting

PGM		Report type
REPORT		
0 SKIP	SKIP	
DEPARTMENT	SKIP	
TRANSACTION	SKIP	
PLU	SKIP	
CLERK	SKIP	
HOURLY	SKIP	Setting
PRINT SELECT		Item
Z COUNTER	YES	
GT1 ON Z	YES	
GT2 ON Z	YES	
GT3 ON Z	YES	
TR GT ON Z	YES	
VD MODE ON X1Z1	YES	
VD MODE ON X2Z2	YES	
PLU DATA ON Z	YES	
EJ SIZE	SMALL	
GST EXEMPT ON XZ	YES	
Z COUNTER		
GENERAL Z1	0000	
GENERAL Z2	0000	
Z1 GENERAL REPORT		
SD: SAVE SALES	NO	
SD: SAVE EJ	NO	
SD: SAVE ALL RAM	NO	
CLEAR EJ	NO	
RESET GT	NO	
E. JOURNAL		
STORE TO SD	W SPACE	
TR DATA STORE	YES	
X DATA STORE	HEADER	

• Message

PGM		Report type
MESSAGE		
RECEIPT LOGO		
BUSINESS NAME		
ADDRESS 1		
ADDRESS 2		
TELEPHONE		
MESSAGE 1		
MESSAGE 2		

• Device configuration

PGM		Report type
DEVICE CONFIG		
KEYBOARD		
BUFFERING	YES	
TOUCH SOUND	YES	Setting
DISPLAY		Item
POWER SAVE	2	
P.SAVE AT TM	YES	
PRINTER		
DENSITY	50	
EFT		
CHARGE	NOT	
TIME OUT1	010	
TIME OUT2	099	
TIME OUT3	0099	
RS PORT		
USE	ONLINE	
ONLINE		
TERMINAL No.	000001	
CI SIGNAL	NON	
LINE FORM	FULL	
BAUD RATE	19200	
START CODE	002	
END CODE	013	
TIME OUT	007	

(The Quebec fiscal type is as follows.)

PGM		Report type
DEVICE CONFIG		
KEYBOARD		
BUFFERING	YES	
TOUCH SOUND	YES	Setting
DISPLAY		Item
POWER SAVE	2	
P.SAVE AT TM	YES	
PRINTER		
DENSITY	50	
RS PORT		
USE	ONLINE	
ONLINE		
TERMINAL No.	000001	
CI SIGNAL	NON	
LINE FORM	FULL	
BAUD RATE	19200	
START CODE	002	
END CODE	013	
TIME OUT	007	
SRM		
PRINTER	T88(3)	
AUTO CUT	NO	

• Tax

PGM	
TAX	Report type
	Tax no.
TAX SYSTEM	Tax system
TAX1	6. 0000 %
	1. 00
1	0. 11
2	0. 23
3	0. 39
4	0. 57
5	0. 73
6	0. 89
7	1. 11
TAX2	8. 0000 %
	0. 12
TAX3	7. 0000 %
	0. 15
TAX4	10. 0000 %
	0. 20
DOUGHNUT EXEMPT	0

• AUTO key

PGM	
AUTO KEY	Report type
	MODE
	4 KEY
	CA/AT/NS
	2 KEY
	CA/AT/NS
	1 KEY

• ROM version

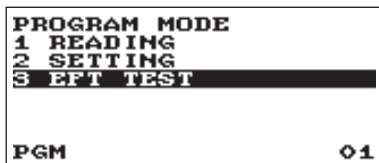
PGM	
VERSION	Report type
IPL Version	
	ER-A2X7 1.00
PROGRAM Version	
	ER-A247
	V1.08
SYSTEM Version	
	System V1.00

EFT Test Function

The EFT Test function appears only when the RS port is programmed to “EFT” in “Device Configuration Programming”.

Use the following procedure to perform the EFT test function.

Procedure



A screenshot of a terminal window showing the 'PROGRAM MODE' menu. The menu has four options: '1 READING', '2 SETTING', '3 EFT TEST', and 'PGM' at the bottom right. The '3 EFT TEST' option is highlighted with a black bar.



A screenshot of a terminal window showing the 'EFT TEST' menu. The menu has one option: '1 EFT COMM TEST', and 'PGM' at the bottom right. The '1 EFT COMM TEST' option is highlighted with a black bar.

1. Press the **MODE** key and select the “6 PROGRAM MODE” and press the **CA/AT/NS** key. In the “PROGRAM MODE” window, select “3 EFT TEST” and press the **CA/AT/NS** key, The EFT TEST window will appear.
2. Press the **CA/AT/NS** key to perform the test function.

NOTE When the EFT terminal (CREDIT CARD terminal) is not connected, the EFT test function causes an error.

SD CARD Mode

You can exchange data through an SD memory card between your register and a PC when managing the data in your register by using the SHARP's PC software "PC-Link".

For "PC-Link", consult your dealer.

You can also save all necessary data in the register to an SD memory card for backup.

To use the SD memory card function, select the "7 SD CARD MODE" in the mode selection window and perform the following operations.

This instruction manual describes only those operations needed on the register. For details, please refer to the help section in the "PC-Link".

■ Inserting and removing an SD memory card

The SD card slot is located on the front side of your register.

Inserting an SD memory card

Insert an SD memory card into the SD card slot with the printed SD logo facing upwards. Push the card in steady with a finger until it clicks and release it slowly.

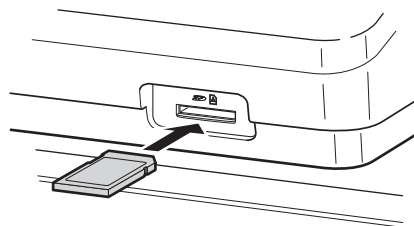
Removing the SD memory card

Push the card in gently with a finger and release it. The card will come out.

NOTE

- This model supports SD cards only. Use of any other types of SD cards such as mini SD, micro SD, etc. with an adapter is not supported.
- When inserting or removing the SD memory card, be sure to release it slowly. Otherwise, the card may pop out and injure your finger.
- Never touch or remove the SD memory card while it is accessed, otherwise the data stored in it may be damaged.
- Formatting the SD memory card erases all the data in it.

CAUTION: Never turn the power off, while the SD memory card is accessed.



■ SD card formatting

When the SD card is not formatted yet, take the formatting operation.

Procedure

- (1) Select "4 FORMATTING" in the SD CARD mode and press the **CA/AT/NS** key, the confirmation window is displayed.
- (2) To perform the format operation, select OK and press the **CA/AT/NS** key.
To cancel the operation, select CANCEL and press the **CA/AT/NS** key.

■ Folder creating

A user folder can be created in the following location:

SHARP/ECRER2X7/nnnnnnnn (nnnnnnnn: user folder name)

Procedure

- (1) Select "3 FOLDER CONTROL" in the SD CARD mode and press the **CA/AT/NS** key.
- (2) Select "1 CREATE FOLDER" and press the **CA/AT/NS** key, the folder name entry window is displayed.
- (3) Enter the required folder name and press the **CA/AT/NS** key.
To cancel the operation, press the **ESC/CANCEL** key.

■ Folder name selecting

Procedure

- (1) Select "3 FOLDER CONTROL" in the SD CARD mode and press the **CA/AT/NS** key, the FOLDER CONTROL window is displayed.
- (2) Select "2 SELECT FOLDER" and press the **CA/AT/NS** key, the folder name list window is displayed.
- (3) Select the required folder name from the list, and press the **CA/AT/NS** key.
To cancel the operation, press the **ESC/CANCEL** key.

■ Data saving

The sales data, EJ data or programming data can be saved to the SD card.

Procedure

- (1) Select "1 SAVING" in the SD CARD mode and press the **CA/AT/NS** key, the selection window "SAVE" or "SAVE & CLEAR" is displayed.
 - 1.SAVE: Saves data
 - 2.SAVE & CLEAR: Saves and adds data to existing file and clears the data at the registerSelect the operation "SAVE" or "SAVE & CLEAR" and press the **CA/AT/NS** key; the following data list window is displayed. (If you selected "SAVE & CLEAR", only "EJ DATA" is displayed.)

Item	Data list
SALES DATA	Sales data (CSV format)
EJ DATA	Electronic journal data
IND. PROGRAM	Select the individual programming data: DEPARTMENT PLU CLERK GRAPHIC LOGO LOGO TEXT TAX
ALL PROGRAM	All programming data
ALL RAM DATA	All RAM data

- (2) Select the data menu from the list and press the **CA/AT/NS** key, the confirmation window is displayed.
To save the required data file, select OK and press the **CA/AT/NS** key.
To cancel the operation, select CANCEL and press the **CA/AT/NS** key.

■ Data loading

The programming data can be loaded from the SD card.

Procedure

- (1) Select “2 LOADING” in the SD CARD mode and press the **CA/AT/NS** key. The following selection window is displayed.

Item	Data list
IND. PROGRAM	Select the individual programming data: DEPARTMENT PLU CLERK GRAPHIC LOGO LOGO TEXT TAX
ALL PROGRAM	All programming data
ALL RAM DATA*	All RAM data

- (2) Select the data menu from the list and press the **CA/AT/NS** key, the confirmation window is displayed.

To load the programming data file, select OK and press the **CA/AT/NS** key.

To cancel the operation, select CANCEL and press the **CA/AT/NS** key.

- * When “ALL RAM DATA” is selected, the register resets the program in the last save point after loading all the RAM data.

NOTE The loading operation must be circumspect in execution, the sales data and/or all programming data will be recovered with the back-up data.

Error message table of the SD card function

Error message (display)	Error status and action
CARD FULL	The SD memory card is full. Delete unnecessary data from the card on a PC or replace the card with a new one. When using a new SD memory card, be sure to format it in advance.
CARD PROTECT	The write-protect switch on the SD memory card is in the “PROTECTED” position. Set the switch on the “NOT PROTECTED” position.
FILE FAILED	The data stored in the SD memory card is incorrect. Write correct data into the SD memory card on a PC.
NO CARD	No SD memory card is found. Insert an SD memory card into the SD card slot or reinsert it correctly.
NO FILE	The designated file is not found.
NO FOLDER	The user folder is not found. (SHARP/ECRER2X7/user folder name)
OVER LIMIT.	The maximum allowable number of times of sales data writing is exceeded. Delete unnecessary data from the SD memory card on a PC or replace the card with a new one. When using a new SD memory card, be sure to format it in advance.
SD ACC POWER OFF	A power failure has occurred while the SD memory card is accessed. Perform the interrupted operation again from the beginning after power recovery.
SD ERROR	An error other than the above mentioned has occurred while the SD memory card is accessed. Perform the interrupted operation again from the beginning.

11 Electronic Journal

■ Electronic journal

This function is intended to record the journal data in the electronic journal file (memory) instead of journal paper.

• Recording data

The register records the printing output to the journal printer in all modes into the electronic journal file.

• Reporting (X report)

The register reports the journal data (same as normal journal formats) in the electronic journal file by the report printer.

Operation: Select the reading operation "E.JOURNAL" in X1/Z1 or OPXZ (only printing) mode.

It is possible to use filter functions (consecutive no./date/time/clerk code).

C.C. No. (Consecutive no.): ALL or RANGE (designate start no./end no.)

DATE (Date): ALL or RANGE (designate start date/end date)

TIME (Time): ALL or RANGE (designate start time/end time)

CLERK (Clerk code): ALL or INDIVIDUAL (designate clerk code)

• Resetting (Z report)

It is possible to take the resetting report of the journal data in the electronic journal file by the report printer.

Operation: Select the resetting operation "E.JOURNAL" in X1/Z1 or OPXZ mode.

The filter functions (consecutive no./date/time/clerk code) can not be used.

When "GENERAL+EJ" is selected in X1/Z1 mode, a general report is printed and the electronic journal data and electronic view data are cleared.

NOTE

- For information on viewing the electronic journal, see "Electronic Journal View".
- The electronic journal can be saved to an SD card. See "SD CARD Mode".

12

Operator Maintenance

In Case of Power Failure

When power is lost, the register retains its memory contents and all information on sales entries.

- When power failure is encountered in register idle state or during an entry, the register returns to the normal state of operation after power recovery.
- When power failure is encountered during a printing cycle, the register carries out the correct printing procedure after power recovery.

In Case of Printer Error

If the printer runs out of paper, the printer will stall, and "PAPER EMPTY" will appear on the display. Key entries will not be accepted. Referring to "Replacing the Paper Roll" in this chapter, install a new paper roll in the proper position, then press the (CL) key. The printer will print the power failure symbol and resume printing.

If the print roller arm comes up, the printer stalls, and "PAPER EMPTY" will appear on the display. Key entries will not be accepted. Push down the arm until it is securely locked, then press the (CL) key. The printer will print the power failure symbol and resume printing.

Cautions in Handling the Printer and Recording Paper

■ Cautions in handling the printer

- Avoid the following environments:
 - Dusty and humid places
 - Direct sunlight
 - Iron powder (A permanent magnet and electromagnet are used in this register.)
- Never pull the paper when the print roller arm is locked. First lift up the arm, and then remove the paper.
- Never touch the surface of the printer head and print roller.

■ Cautions in handling the recording paper (thermal paper)

- Use only the paper specified by SHARP.
- Do not unpack the thermal paper until you are ready to use it.
- Avoid heat. The paper will color at around 70°C.
- Avoid dusty and humid places for storage. Avoid direct sunlight.
- The printed text on the paper can discolor under the following conditions:
 - Exposure to high humidity and temperature
 - Exposure to the direct sunlight
 - Contact with glue, thinner or a freshly copied blueprint.
 - Heat caused by friction from scratching or other such means.
 - Contact with a rubber eraser or adhesive tape.
- Be very careful when handling the thermal paper. If you want to keep a permanent record, copy the printed text with a photocopier.

Installing Batteries

This register displays a low battery warning message “LOW BATTERY” when the batteries are low, and displays a no battery warning message “NO BATTERY” when batteries are extremely low or batteries are not installed.

If no batteries are installed, install two new alkaline batteries LR6 (“AA” size) at once. If batteries are already installed, replace them with new ones as soon as possible. If the AC power cord is disconnected or a power failure occurs when the batteries are dead or not installed, all the programmed settings will be reset to the default settings and any data stored in memory will be cleared.

NOTE

Improper use of batteries could cause them to burst or leak, which might damage the interior of the register. Please take the following precautions:

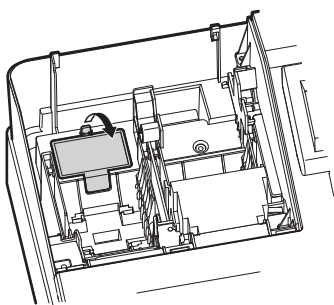
- *Be sure that the positive (+) and negative (-) poles of each battery are oriented properly.*
- *Never mix batteries of different types.*
- *Never mix old batteries and new ones.*
- *Never leave dead batteries in the battery compartment.*
- *Remove the batteries if you plan not to use the register for long periods.*
- *Should a battery leak, clean out the battery compartment immediately, taking care not to let the battery fluid come into direct contact with your skin.*
- *If an incorrect battery is used, it may explode or leak.*
- *For battery disposal, follow the relevant law or regulation in your country.*

Replacement

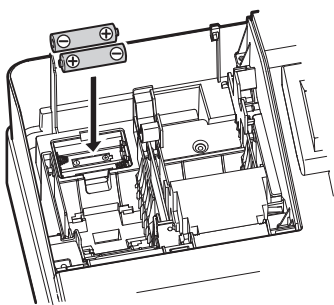


1. Be sure the register is plugged in.

2. Remove the printer cover.



3. Open the battery cover and remove the old batteries.



4. Install two new LR6 (“AA” size) batteries into the battery compartment.

5. Close the battery cover.

6. Replace the printer cover.

Replacing the Paper Roll

■ Recording paper specifications

Be sure to use paper rolls specified by SHARP.

The use of any other paper rolls than specified could cause paper jamming, resulting in register malfunction.

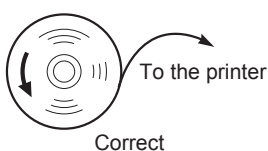
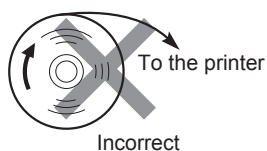
Paper specification

Paper width: 57.5 ± 0.5 mm
Max. outside diameter: 80 mm
Quality: High quality (0.06 to 0.08 mm thickness)

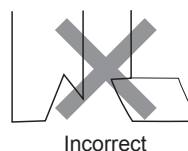
- Be sure to set a paper roll prior to using your register, otherwise it may cause a malfunction.

Install the paper roll in the printer. Be careful then to set the roll and cut the paper end correctly.

(How to set the paper roll)

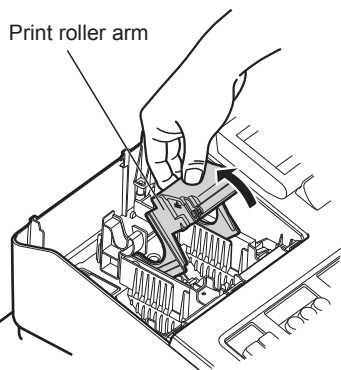


(How to cut the paper end)

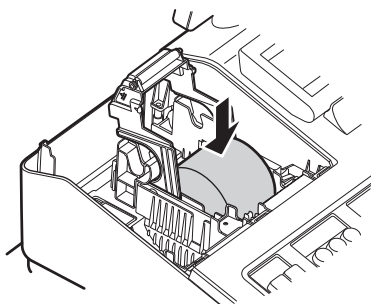


■ Installing the Paper Roll

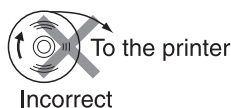
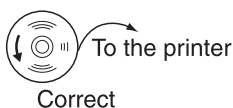
The register can print receipts. For the printer, you must install the paper roll provided with the register.

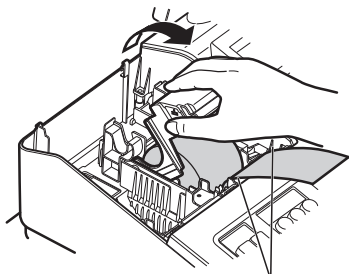


1. Remove the printer cover.
2. Lift up the print roller arm.



3. Set a paper roll in the paper roll cradle as per the diagram.



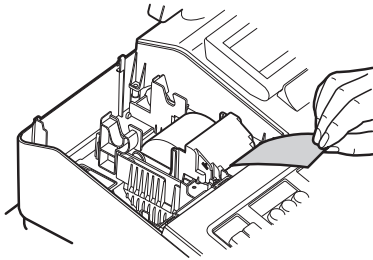


Paper positioning guides

4. Feed the end of the paper along with the paper positioning guides as per the diagram.
5. While holding down the paper, slowly close the print roller arm, and push down the arm until you hear a click locking the arm.

NOTE *If the print roller arm is not securely locked, printing is not done right. If this problem occurs, open the arm, and close the arm as instructed above.*

6. Cut off the excess paper.



7. Replace the printer cover.
8. Press the **RCPT FEED** key to make sure the paper end comes out of the printer cover and clean paper appears.

NOTE *If the paper end does not come out, open the printer cover, and pass the paper end between the paper cutter and the paper guide of the printer cover, and replace the printer cover.*

■ Replacing the receipt paper roll

When colored dye appears on the edges of the paper roll, it is time to replace the paper roll. Use paper of 57.5 ± 0.5 mm in width. To prevent jamming be sure to use paper specified by SHARP.

1. Confirm that the REG mode has been selected.
2. Remove the printer cover.
3. Lift up the print roller arm.
4. Remove the paper roll from the paper roll cradle.

NOTE *Do not pull the paper through the printer.*

5. Install a new paper roll correctly by following the steps in "Installing the Paper Roll".

■ Removing a Paper Jam

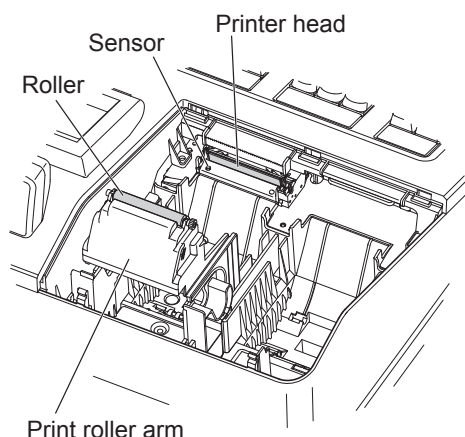
CAUTION: The paper cutter is mounted on the printer cover. Be careful not to cut yourself. Never touch the printer head immediately after printing, as the head may still be hot.

1. Remove the printer cover.
2. Lift up the print roller arm.
3. Remove the paper jam. Check for and remove any shreds of paper that may remain in the printer.
4. Reset the paper roll correctly by following the steps in "Installing the Paper Roll".

Cleaning the Printer (Printer Head/Sensor/Roller)

When the printed text is getting dark or faint, paper dust may be stuck to the printer head, sensor and/or roller. Clean them as follows:

CAUTION: Never touch the printer head with a tool or anything hard as it may damage the head.
The paper cutter is mounted on the printer cover. Be careful not to cut yourself.



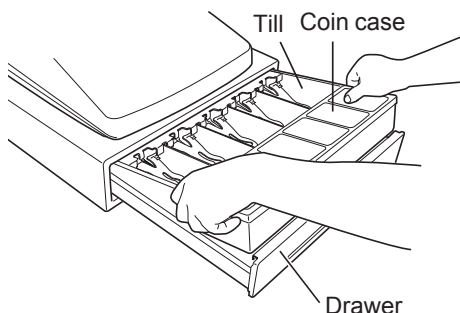
1. Select the OFF mode.
2. Remove the printer cover.
3. Lift up the print roller arm.
4. Remove the paper roll referring to the "Removing a Paper Jam" section.
5. Clean the printer head with a cotton swab or soft rag moistened with ethyl alcohol or isopropyl alcohol. Clean the roller and the sensor in the same manner.
6. Reset the paper roll correctly by following the steps in "Installing the Paper Roll".

Drawer and Drawer Lock Key

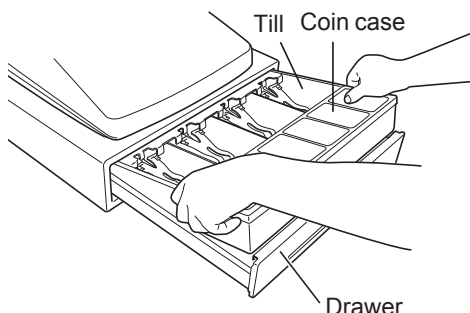
■ Removing the Till

The till in the register is detachable. After closing your business for the day, remove the till from the drawer and keep the drawer open. The coin case is also detachable from the till.

• For ER-A247

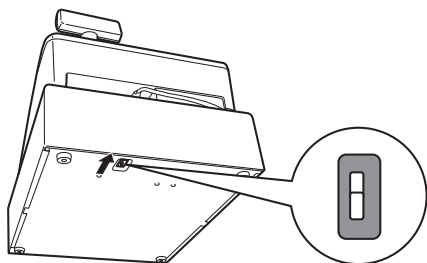


• For ER-A247A



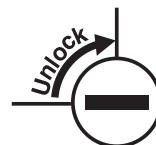
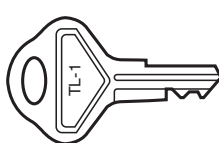
■ Opening the Drawer by Hand

The drawer automatically opens in the usual way. However, when power failure is encountered or the register becomes out of order, slide the lever located on the bottom of the register in the direction of the arrow. (See the figure below.) The drawer will not open, if it is locked with a drawer lock key.



■ Drawer Lock Key

This key locks and unlocks the drawer.
To lock it, turn 90 degrees counterclockwise.
To unlock it, turn 90 degrees clockwise.



Before Calling for Service

If you encounter any of the following problems, please read below before calling for service.

Fault	Checking
• The display does not illuminate.	<ul style="list-style-type: none"> • Is power supplied to the electric outlet? • Is the power cord plug out or loosely connected to the electric outlet? • Is the register in screen-save mode?
• The display is illuminated, but the whole register refuses entries.	<ul style="list-style-type: none"> • Is a clerk code assigned to the register? • Is the register in the REG mode?
• No receipt is issued.	<ul style="list-style-type: none"> • Is the receipt paper roll properly installed? • Is there a paper jam? • Is the receipt function in the "OFF" status? • Is the print roller arm securely locked?
• Printing is unusual.	<ul style="list-style-type: none"> • Are the printer head/sensor/roller clean? • Is the paper roll properly installed?

Error message table

Error message (display)	Error status and action
AMT. TEND ONLY	The amount tendering is compulsory.
COMM. ERROR	A communication error occurred.
DEPARTMENT IS INHIBITED	Operated department is programmed as "INHIBIT".
ENTRY INHIBITED NN••N	Perform the correct key operation.
ENTRY OVERFLOW PLEASE CHECK ENTERED DIGITS	The correct numeric data must be entered.
INVALID CODE ENTRY	The correct code data must be entered.
MISOPERATION INVALID KEY	Perform the correct key operation.
OPEN PRICE ENTRY INHIBITED	The open price entry is inhibited. (Only preset price entry)
OVER LIMIT.	Overflow limitation error
PAPER EMPTY	Install a new paper roll, and press the CL key.
PLU IS SET TO INHIBIT	Operated PLU is programmed as "INHIBIT".
PRESET PRICE ENTRY INHIBITED	The preset price entry is inhibited. (Only open price entry)
PRINTER ERROR	The temperature/voltage of printer head is too high. Turn off the power, and repair the printer. Then turn on the power and press CL key.
STACK OVER	Turn off the power, and consult a Sharp Authorized Servicer.
UNDEFINED CODE	Desired code is not programmed yet.

13 Specifications

Model:	ER-A247 ER-A247A	
Dimensions:	16.7 (W) x 15.6 (D) x 12.6 (H) in. (425 (W) x 395 (D) x 320 (H) mm)	
Weight:	Approx. 24.3 lb (11 kg)	
Power Source:	120V AC, 60Hz	
Power Consumption:	Stand-by: 6.3 W Operating: 12.8 W (max.)	
Working Temperature:	32 to 104 °F (0 to 40 °C)	
Humidity:	20 % to 85 %	
Display:	Operator display:	LCD display with Tilt mechanism 160 (W) x 64 (H) (dots) 7-segment LED display
	Customer display:	
Printer:	Type:	One-station thermal printer
	Printing speed:	Approx. 12 lines/second
	Printing capacity:	30 digits
	Other functions:	- Receipt (ON-OFF) function - Compression print for an electronic journal
Logo:	Graphic logo printing:	
	Size:	130 (H) x 360 (W) pixel Area of black must be less than 35% of all area.
	Logo message printing:	
	Logo message for the receipt (max. 30 characters x 6 lines)	
Paper Roll:	Width: 2.25 ± 0.02 in (57.5 ± 0.5 mm) Max. diameter: 3.15 in (80 mm) Quality: High quality (0.06 to 0.08 mm thickness)	
Cash Drawer:	ER-A247: 5 slots for bills and 6 for coin denominations ER-A247A: 4 slots for bills and 6 for coin denominations	
Accessories:	Hardware Operation Manual:	1 copy
	Paper roll:	1
	Drawer lock key:	2

*Specifications and appearance are subject to change without notice for improvement.

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SHARP ELECTRONICS OF CANADA LTD SHARP ÉLECTRONIQUE DU CANADA LTÉE

335 Britannia Road East, Mississauga, Ontario L4Z 1W9

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