SHARP®

ELECTRONIC CASH REGISTER

MODEL

XE-A207
XE-A23S

INSTRUCTION MANUAL



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.

CAUTION

The AC power socket-outlet should be installed near the equipment and should be easily 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 XE-A207/XE-A23S.
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 very careful when removing and replacing the printer cover, as the cutter mounted on it is very 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.
- 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.

Customer Service Hotline
1-800-BE-SHARP

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CONTENTS

INTRODUCTION 1
IMPORTANT 1
CONTENTS 2
1 Parts and Their Functions 6
External View 6
Front view 6
Rear view 6
Printer 7
Keyboard 8
Keyboard layout (for XE-A207) 8
Function key list 8
Keyboard layout (for XE-A23S) 9
Function key list 9
Displays 10
Operator display 10
Customer display 11
Screen save mode 11
2 Selecting an Operating Mode 12
Operating Modes 12
Mode Selection 13
3 Prior to Making Entries 14
Preparations for Entries 14
Receipt paper roll 14
Receipt ON/OFF function 14
Clerk assignment 14
Error Warning 14
Selecting the Function from the Menu 15
HELP/FAQ Function 16
The HELP menu and printing guidance messages 16
The FAQ menu and guidance messages 17
4 Entries 18
Item Entries 18
Single item entries 18
Repeat entries 20
Multiplication entries 21
Split-pricing entries 22
Single item cash sale (SICS) 23
Display of Subtotals 23
Taxable subtotal 23
Including-tax subtotal (complete subtotal) 23
Finalization of Transaction 24
Cash or check tendering 24
Cash or check sale that does not need any tender entry 25
Charge (credit) sale 25
Mixed-tender sale (cash or check tendering + charge tendering) 25
Tax Calculation 26
Automatic tax 26
Manual tax 26
Tax delete 27
Tax status shift 27
Auxiliary Entries 28

Percent calculations (premium or discount) 28
Discount entries 29
Refund entries 29
Printing of non-add code numbers 30
Payment Treatment 30
Currency conversion....30
Received-on-account entries....31
Paid-out entries 32
No-sale (exchange) 32
Electronic Journal View 33
TRAINING Mode....33
5 Correction....34
Correction of the Last Entry (Direct Void) 34
Correction of the Next-to-Last or Earlier Entries (Indirect Void)....35
Subtotal Void....36
Correction after Finalizing a Transaction 36
6 Special Printing Function 37
Copy Receipt Printing....37
7 Manager Mode....38
Entering the Manager Mode 38
Override Entries....38
8 Reading (X) and Resetting (Z) of Sales Totals 39
How to take a X1/Z1 or X2/Z2 report....39
View report....39
Daily Sales Totals 41
General report 41
PLU report by designated range....42
PLU report by associated department 42
Clerk reports 42
Hourly report....42
Periodic Report Sample....43
General information 43
9 Prior to Programming....44
Programming Keyboard Layout....44
For XE-A207....44
For XE-A23S 44
How to Program Alphanumeric Characters 46
Mobile phone method 46
Entering character codes....47
10 Programming 48
Basic Instructions....48
Programming screen 48
Programming example 49
DEPT/PLU Programming....51
Department....52
PLU....53
PLU range 53
Functional Programming....54
Discount (⊖)....55
Percent (%1 , %2) 56
Manual tax....56
RA....57
PO 57

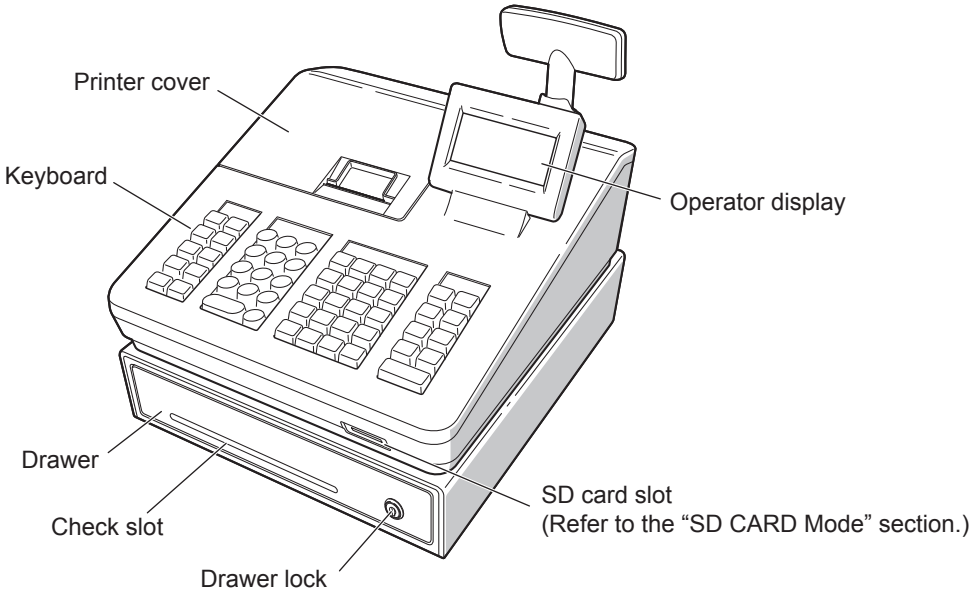
Cash in drawer 57
Media Key Programming 58
Cash key (Cash) 58
Check key (Check) 59
Charge key (Charge) 59
Currency conversion (CONV1, CONV2) 60
Function Text Programming 61
Personnel Programming 62
Clerk 62
Manager 63
Mode Pass Code 63
Training Clerk 63
Terminal Programming 64
Date/Time Setting 64
Date/time 64
Optional Feature Selection 65
Basic System 66
Function Prohibit 67
Function Authority 68
Function Selection 69
Print Selection 70
Report Programming 72
Zero skip 73
Print select 74
Z Counter 75
Z1 General report 75
Electronic Journal 75
Message Programming 76
Receipt logo 76
Device Configuration Programming 77
Keyboard 77
Display 78
Printer 78
EFT 78
Tax Programming 79
Tax system 80
Tax 1 through 4 81
Doughnut exempt 83
Automatic Sequencing Key Programming 84
Key Sequence 84
Reading of Stored Programs 85
Program reading sequence 85
Sample printouts 86
EFT Test Function 92
SD CARD Mode 93
Inserting and removing an SD memory card 93
SD card formatting 93
Folder creating 93
Folder name selecting 94
Data saving 94
Data loading 95
11 Electronic Journal 96
Electronic journal 96

12 Operator Maintenance 97
In Case of Power Failure 97
In Case of Printer Error 97
Cautions in Handling the Printer and Recording Paper 97
Cautions in handling the printer 97
Cautions in handling the recording paper (thermal paper) 97
Installing Batteries 98
Replacing the Paper Roll 99
Recording paper specifications 99
Installing the Paper Roll 99
Replacing the receipt paper roll 100
Removing a Paper Jam 100
Cleaning the Printer (Printer Head/Sensor/Roller) 101
Removing the Drawer 102
Opening the Drawer by Hand 102
Drawer Lock Key 102
Before Calling for Service 103
13 Specifications 104

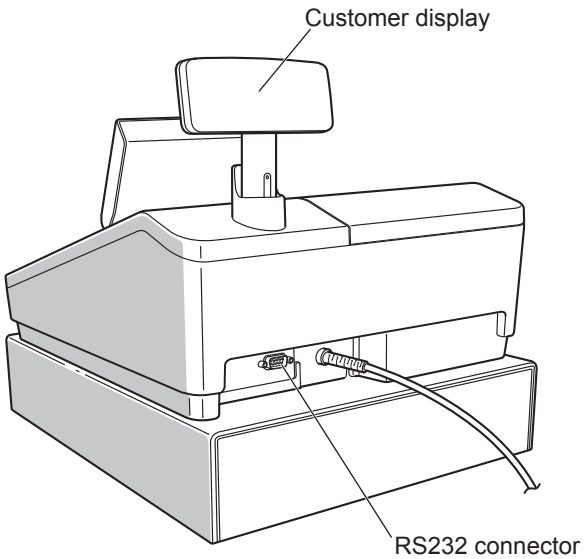
1 Parts and Their Functions

External View

■ Front view



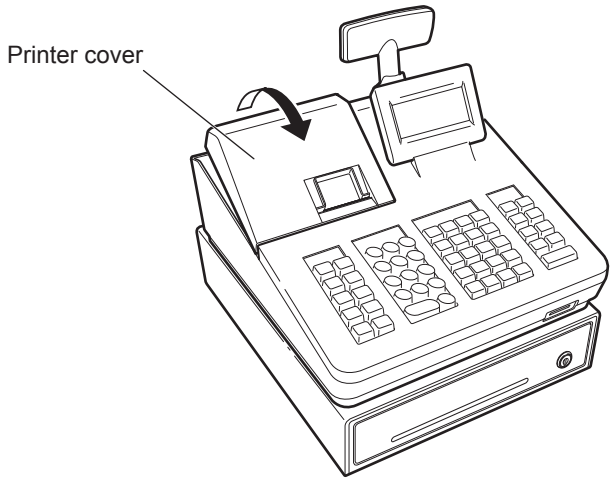
■ Rear view

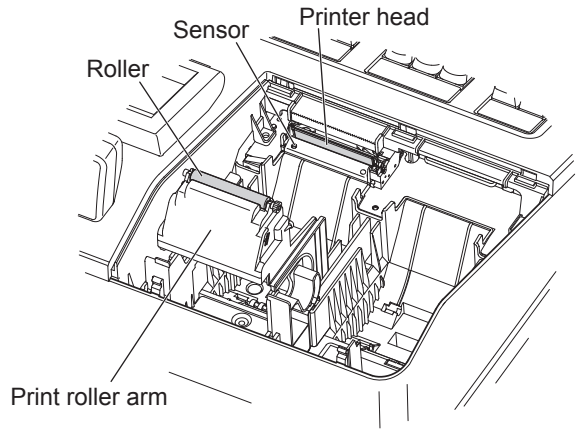


Printer

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 its rear.
When installing the printer cover, hook it on the pawls on the cabinet and shut it.
CAUTION: The paper cutter is mounted on the printer cover. Be careful not to cut yourself.

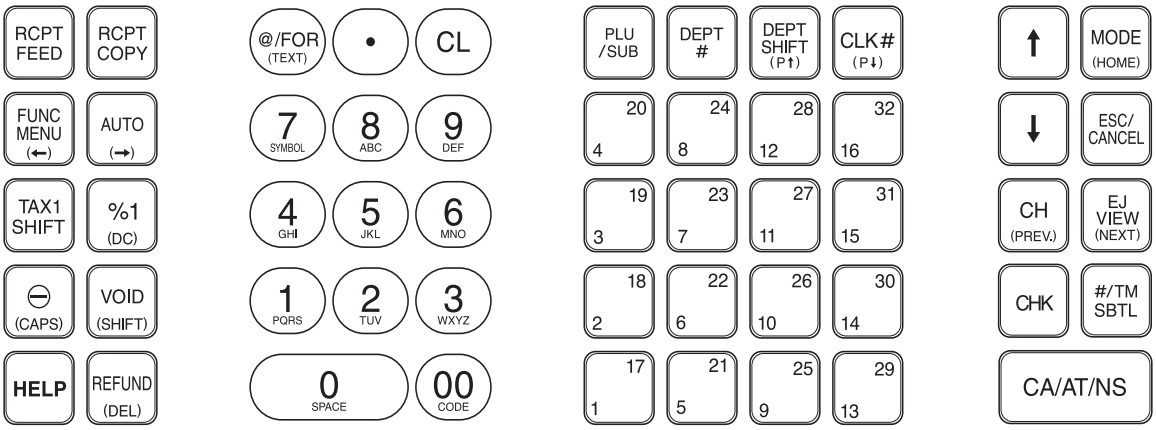




NOTE *Do not attempt to remove the paper with the print roller arm in the hold position. This may result in damage to the printer and printer head.*

Keyboard

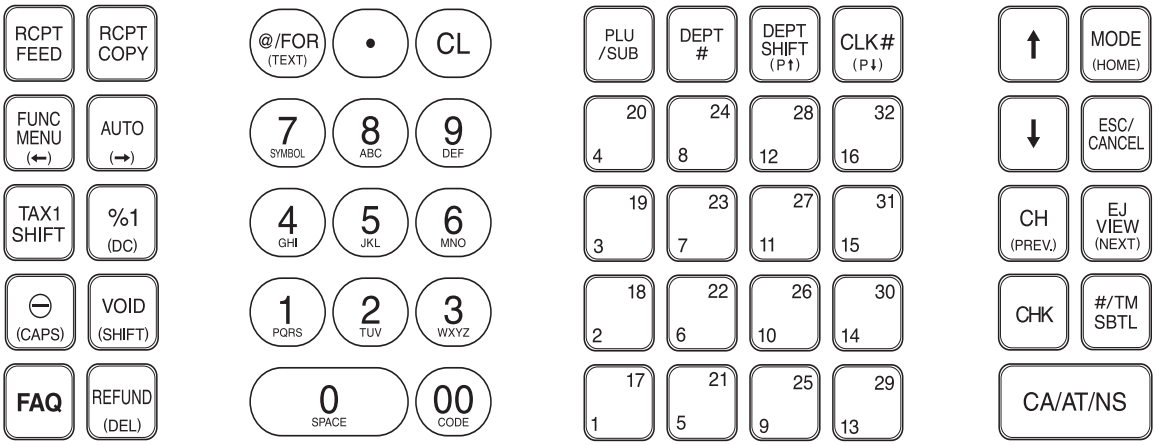
■ Keyboard layout (for XE-A207)



■ 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			

■ Keyboard layout (for XE-A23S)



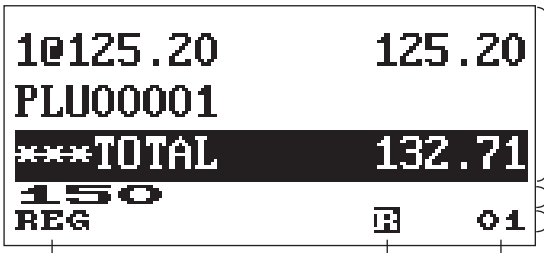
■ Function key list

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	1 ~ 32	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
FAQ	Frequently Asked Questions 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:

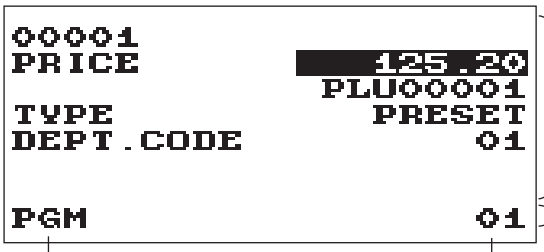
Mode name

Status information

Clerk code

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)

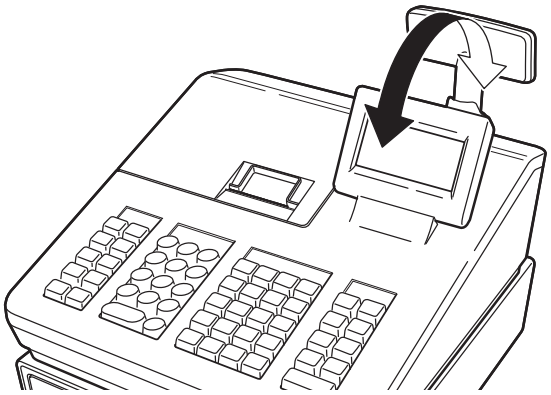


Programming area: Programmable items are listed.

Status area:

Mode name

Clerk code



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



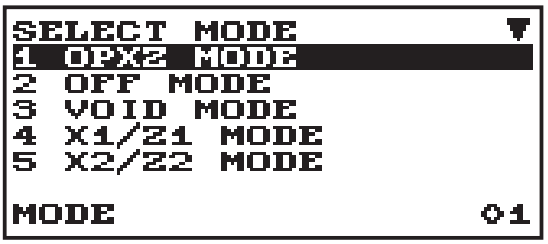
■ Screen save mode

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

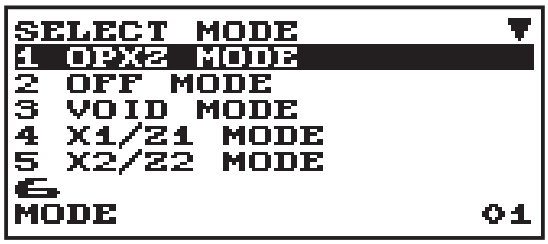
You can select any mode other than REG from the list in the mode selection window. Your register supports the following operating modes:

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.



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.

For XE-A207

Press the FUNC MENU key. Select "8 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.

For XE-A23S

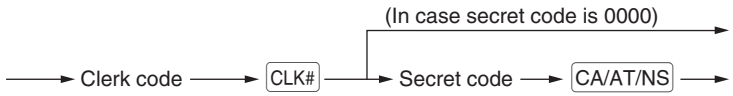
Press the FAQ key. Select "2 RECEIPT SW" and press the CA/AT/NS key. Select "OFF" to disable receipt printing and press the CA/AT/NS key. When the function is in the OFF status, the receipt off indicator "R" is highlighted.

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# →

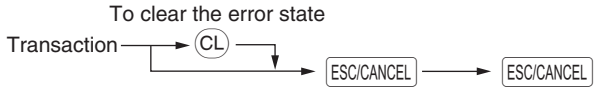
Error Warning

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:



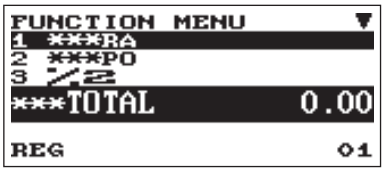
The transaction is voided (treated as a subtotal void) and the receipt is issued by this function. If you have already entered a tendered amount, the operation is finalized as a cash sale.

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.

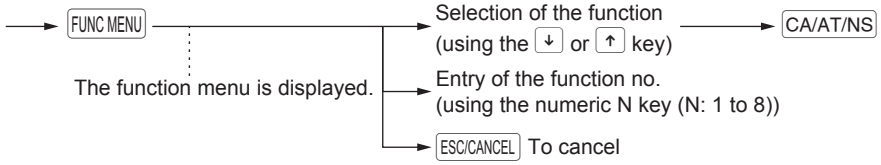
• FUNCTION MENU







Procedure



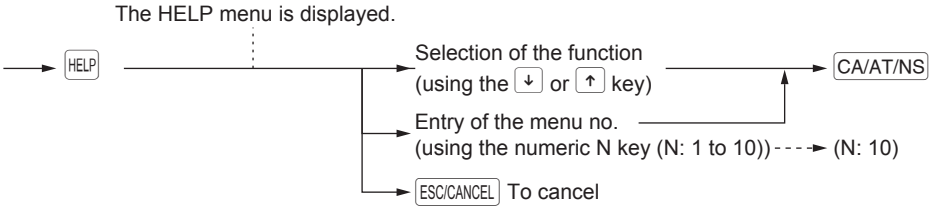
HELP/FAQ Function

The HELP/FAQ function allows you to print guidance messages for basic operation procedure of the register.
FAQ function: only for the XE-A23S

■ The HELP menu and printing guidance messages

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

Procedure



Example

Key operation	Print
(For the XE-A207) HELP 1 CA/AT/NS	1 DATE/TIME SETUP MODE SELECTION: PROGRAM MODE SELECT "2 SETTING". SELECT "7 DATE/TIME". EX) 06/30/2012 4:30PM 063012[↓]1630[CA/AT/NS]

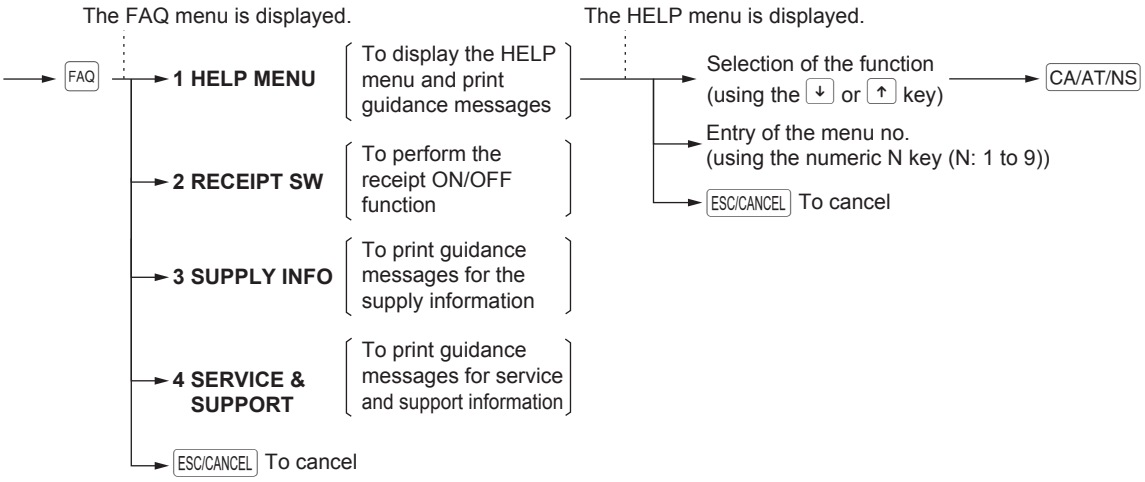
HELP menu list (for the XE-A207)

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

■ The FAQ menu and guidance messages

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

Procedure



Example

Key operation	Print
(For the XE-A23S) FAQ 1 2	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 "1 % TAX". 6.25[↓]300[CA/AT/NS]

HELP menu list (for the XE-A23S)

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.

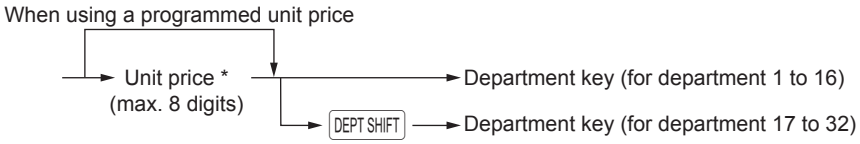
NOTE *When those departments for which the unit price has been programmed as zero (0) are entered, only the sales quantity is added.*

• 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



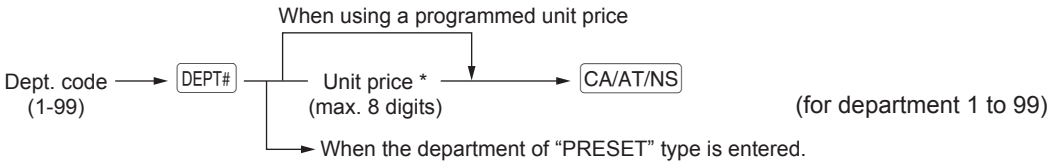
* Less than the programmed upper limit amounts

• 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



(for department 1 to 99)

* Less than the programmed upper limit amounts

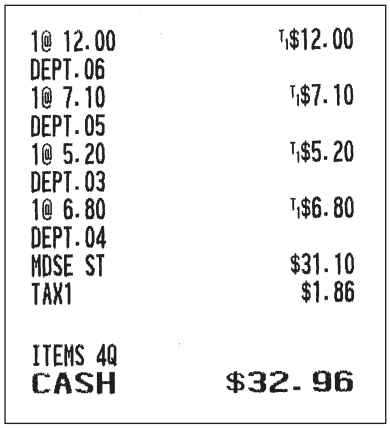
NOTE *You can directly enter the code No. of the department using the numeric key.*
For the code No. exceeding the figure on the numerical key board (33 and above), use this function.

Example

Key operation

1200 [6] [5]
3 [DEPT#]
520
[CA/AT/NS]
[4]
[CA/AT/NS]

Print



PLU/sub-department (open price) entries

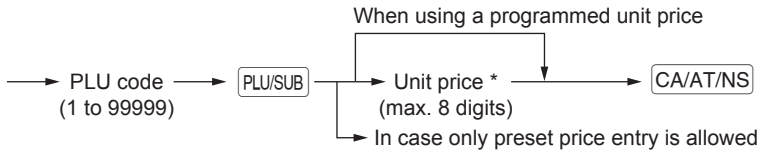
For another merchandise classification, the register provides a maximum of 2500 PLUs/sub-departments. PLUs are used to call up preset prices by a code entry. Sub-departments are used to classify merchandise into smaller groups under the departments. Every PLU and sub-department has a free code from 1 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 [PLU/SUB] key. If you not use a programmed unit price, you need to enter a unit price after pressing the [PLU/SUB] key.

Procedure



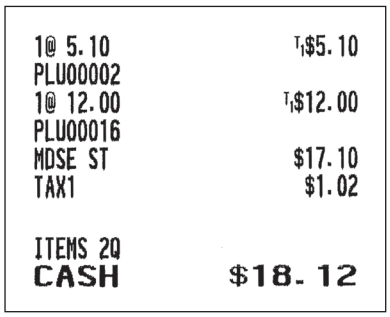
NOTE *When those PLUs for which the unit price has been programmed as zero (0) are entered, only the sales quantity is added.*

Example

Key operation

PLU entry → 2 [PLU/SUB]
Sub-department entry → 16 [PLU/SUB]
1200
[CA/AT/NS]
[CA/AT/NS]

Print



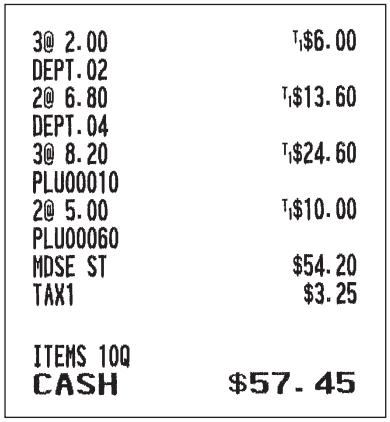
■ Repeat entries

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
Repeated department entry (direct)	200 [2 18]
	[2 18]
	[2 18]
Repeated department entry (indirect)	4
	[DEPT#]
	680
	[CA/AT/NS]
	[DEPT#]
Repeated PLU entry	10 [PLU/SUB]
	[PLU/SUB]
	[PLU/SUB]
Repeated subdepartment entry	60 [PLU/SUB]
	500 [CA/AT/NS]
	[PLU/SUB]
	[CA/AT/NS]

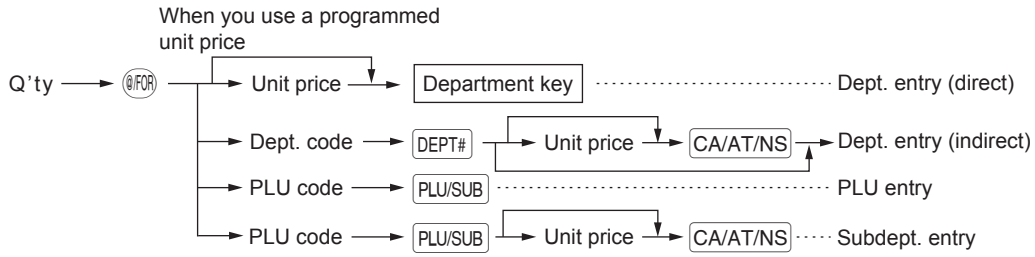
Print



■ 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

7 • 5 @/FOR
165 2/18
2 @/FOR
5 DEPT#
250
CA/AT/NS
15 @/FOR
8 PLU/SUB
3 @/FOR
60 PLU/SUB
100
CA/AT/NS
CA/AT/NS

Print

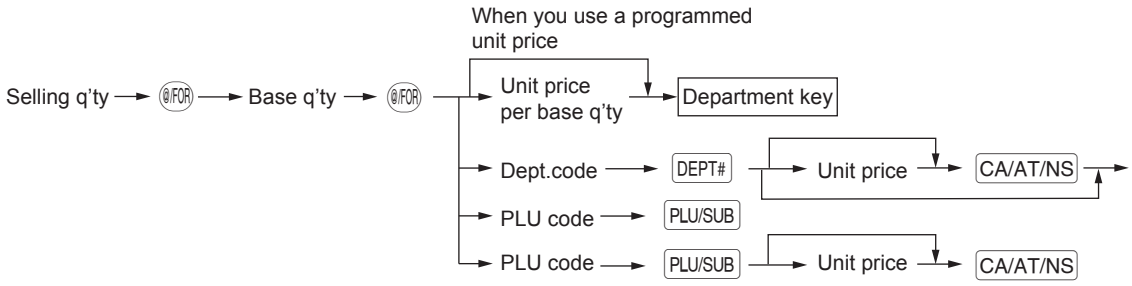
```
7.500@ 1.65          T1$12.38
DEPT.02
2@ 2.50              T1$5.00
DEPT.05
15@ 3.00             T1$45.00
PLU00008
3@ 1.00              T1$3.00
PLU00060
MDSE ST              $65.38
TAX1                 $3.92

ITEMS 21Q
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 600 2 8 @/FOR 5 @/FOR 35 PLU/SUB CA/AT/NS	7@ 10/ 6.00 T1$4.20 DEPT.02 8@ 5/ 1.50 T1$2.40 PLU00035 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
250 For finishing the transaction → 3 [19]	1@ 2.50 T$2.50 DEPT.03 MDSE ST $2.50 TAX1 $0.15 ITEMS 1Q CASH $2.65

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
#/TM/SBTL 1000 CA/AT/NS	ITEMS 2Q ***TOTAL $3.55 CASH $10.00 CHANGE $6.45

Check tendering

Key operation	Print
#/TM/SBTL 1000 CHK	ITEMS 2Q ***TOTAL $3.55 CHECK $10.00 CHANGE $6.45

■ 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

6 PLU/SUB
10 PLU/SUB
CA/AT/NS

Print

```
1@ 3.50                  T1$3.50
PLU00006
1@ 8.20                  T1$8.20
PLU00010
MDSE ST                  $11.70
TAX1                      $0.70

ITEMS 2Q
CASH                     $12.40
```

In the case of check sale

```
ITEMS 2Q
CHECK                    $12.40
```

■ Charge (credit) sale

Enter items and press the CH key.

Example

Key operation

6 PLU/SUB
7 PLU/SUB
#/TM/SBTL
CH

Print

```
1@ 3.50                  T1$3.50
PLU00006
1@ 2.10                  T1$2.10
PLU00007
MDSE ST                   $5.60
TAX1                      $0.34

ITEMS 2Q
CHARGE                   $5.94
```

NOTE *Amount tendering operations (i.e. change calculations) can be achieved by the CH key when a PROGRAM mode programming allows them.*

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

Example

Key operation

#/TM/SBTL
950 CA/AT/NS
CH

Print

```
ITEMS 2Q
***TOTAL                 $12.40
CASH                      $9.50
CHARGE                    $2.90
```

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]	5@ 6.70 $33.50
85 [PLU/SUB]	DEPT.01
[CA/AT/NS]	1@ 7.15 $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

→ [FUNC MENU] → 〔6 M-TAX〕 → Tax amount (less than programmed HALO) → [CA/AT/NS]

Tax amount → [ESC/CANCEL] To cancel

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

Key operation	Print
800 [12]	1@ 8.00 $8.00
[FUNC MENU] 6	DEPT.12
50 [CA/AT/NS]	M-TAX $0.50
[CA/AT/NS]	ITEMS 1Q
	CASH $8.50

■ Tax delete

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

Procedure

→ [FUNC MENU] → (7 TAX DELETE) → { 1 TAX1 DELETE / 2 TAX2 DELETE / 3 ALL TAX DELETE / 4 PST DELETE } → [ESC/CANCEL] To cancel / [CA/AT/NS]

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 T1$7.25
515 [11 27]	DEPT.01
[FUNC MENU] 7	1@ 5.15 T2$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 2Q
[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 T1$13.45
25 [TAX1 SHIFT] [PLU/SUB]	DEPT.16
400 [TAX1 SHIFT] [11 27]	1@ 7.00 T1$7.00
[CA/AT/NS]	PLU00025
	1@ 4.00 $4.00
	DEPT.11
	MDSE ST $24.45
	TAX1 $1.23
	ITEMS 3Q
	CASH $25.68

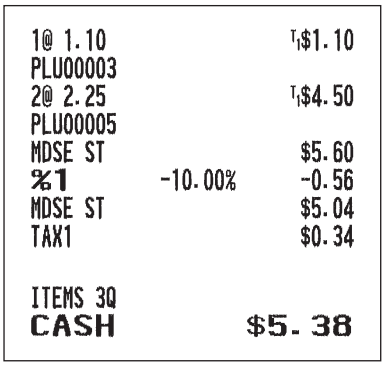
Auxiliary Entries

■ 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%

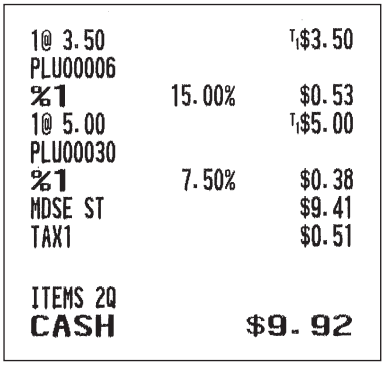
Percent calculation for a subtotal

Example

Key operation		Print
(When a discount of 10% is programmed for the %1 key.)	3 PLU/SUB 2 @/FOR 5 PLU/SUB #/TM/SBTL %1 CA/AT/NS	

Percent calculation for item entries

Example

Key operation		Print
(When a premium of 15% is programmed for the %1 key.)	6 PLU/SUB %1 30 PLU/SUB 7 • 5 %1 CA/AT/NS	

NOTE

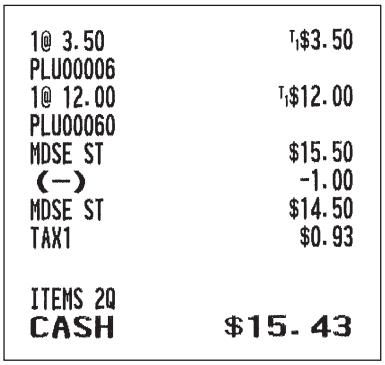
- *You can also enter a percent calculation from the function menu window. Press the FUNC MENU key and select "3 %2" and enter a percent calculation.*
- *Availability of item % and/or subtotal % depends on the programming data of %1 and %2.*

■ 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.

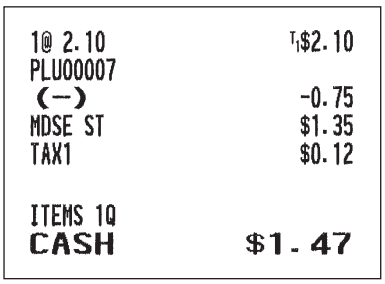
Discount for a subtotal

Example

Key operation	Print
6 [PLU/SUB] 60 [PLU/SUB] [#/TM/SBTL] 100 [⊖] [CA/AT/NS]	

Discount for item entries

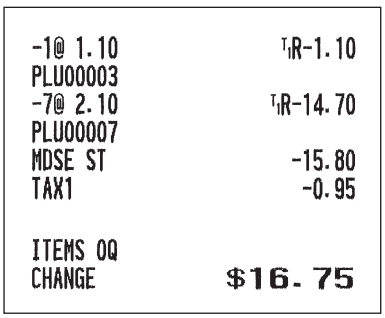
Example

Key operation	Print
7 [PLU/SUB] 75 [⊖] [CA/AT/NS]	

■ Refund entries

For a refund entry, press the [REFUND] key just before you press a department key, [DEPT#] key or [PLU/SUB] key. The operation before pressing the [REFUND] 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 [REFUND] 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 [REFUND] and [PLU/SUB] keys.

Example

Key operation	Print
3 [REFUND] [PLU/SUB] 7 [@/FOR] 7 [REFUND] [PLU/SUB] [CA/AT/NS]	

■ 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

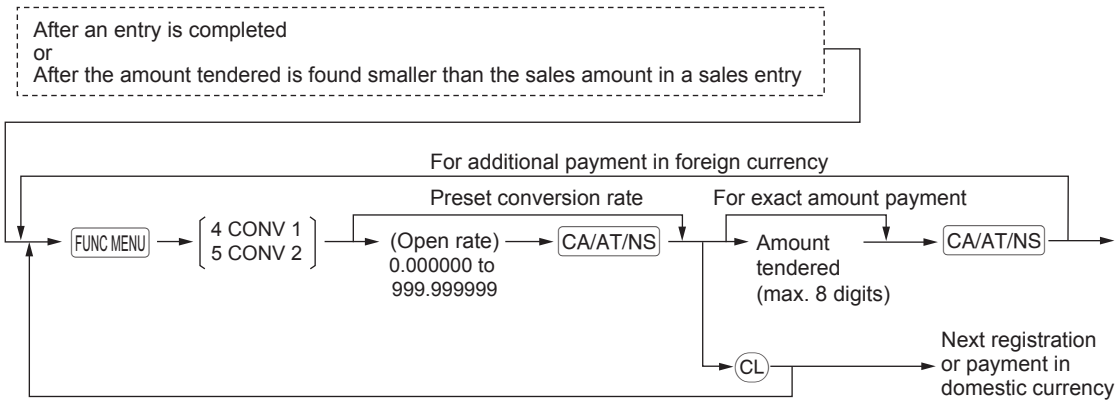
Key operation	Print
1230 #/TM/SBTL 700 1 CH	#0000000000001230 1@ 7.00 T1$7.00 DEPT.01 MDSE ST $7.00 TAX1 $0.42 ITEMS 1Q CHARGE $7.42

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



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

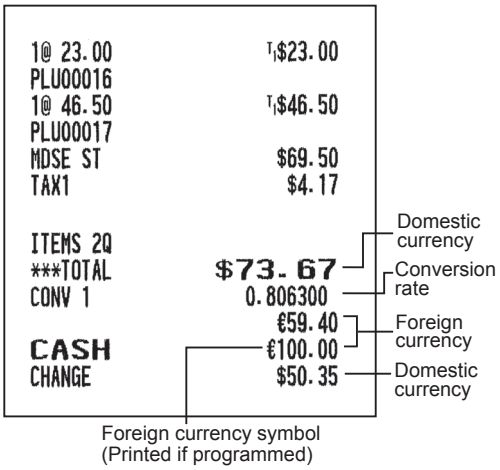
Example

Preset conversion rate (0.8063) :CONV 1

Key operation

16 [PLU/SUB]
17 [PLU/SUB]
Currency conversion → [FUNC MENU] 4
Amount tendered in foreign currency → 10000 [CA/AT/NS]

Print



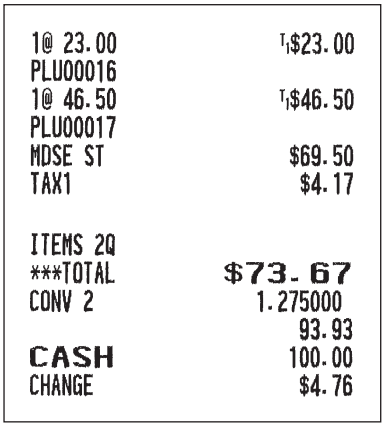
Example

Open conversion rate (1.275) :CONV 2

Key operation

16 [PLU/SUB]
17 [PLU/SUB]
Currency conversion → [FUNC MENU] 5
Conversion rate → 1⊙275 [CA/AT/NS]
Amount tendered in foreign currency → 10000 [CA/AT/NS]

Print



■ 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

→ [FUNC MENU] → 〔1 ***RA〕 → RA amount (max. 9 digits) → [CA/AT/NS]

Example

Key operation

12345 [#/TM/SBTL]
(Selection "1 ***RA") → [FUNC MENU] 1
4800 [CA/AT/NS]

Print



■ 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

→ FUNC MENU → 〔2 ***PO〕 → Amount (max. 9 digits) → CA/AT/NS

Example

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

■ No-sale (exchange)

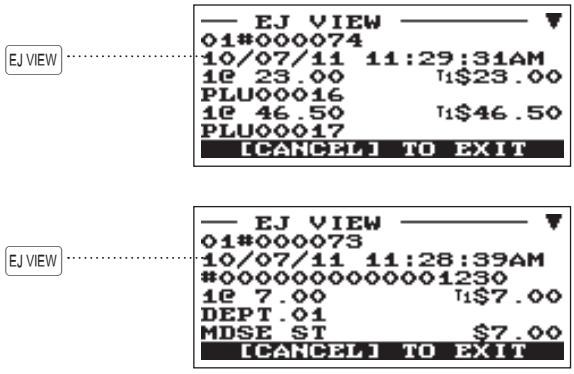
Simply press the CA/AT/NS key without any entry. The drawer will open and the printer will print "NO SALE" on the receipt. If you let your register print a non-add code number before pressing the CA/AT/NS key, a no sale entry is achieved with a non-add code number printed.

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

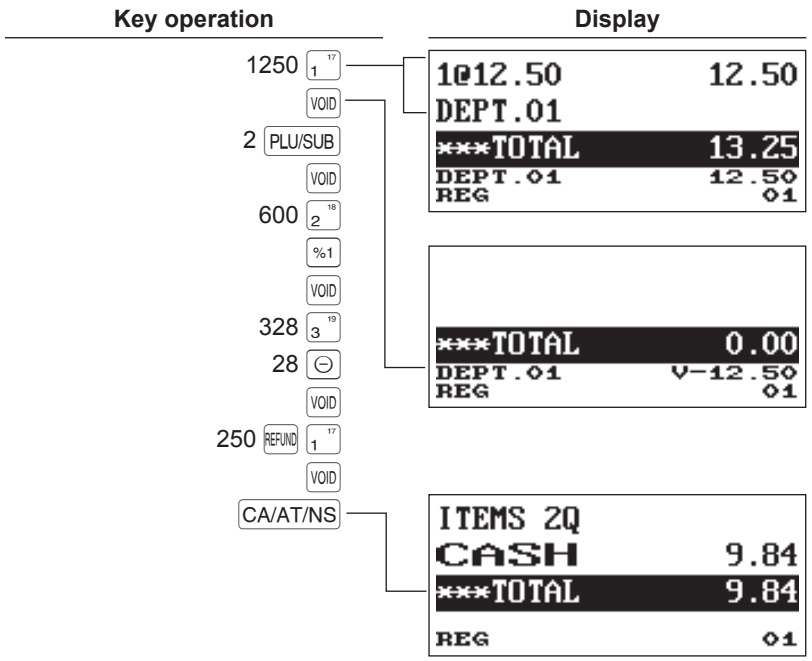
	Key operation	Print
Selecting the clerk set in training	5 [PLU/SUB] 3 [@/FOR] 3 [PLU/SUB] [CA/AT/NS]	TRAINING 1@ 2.25 T1$2.25 PLU00005 3@ 1.10 T1$3.30 PLU00003 MDSE ST $5.55 TAX1 $0.33 ITEMS 4Q CASH $5.88

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



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.

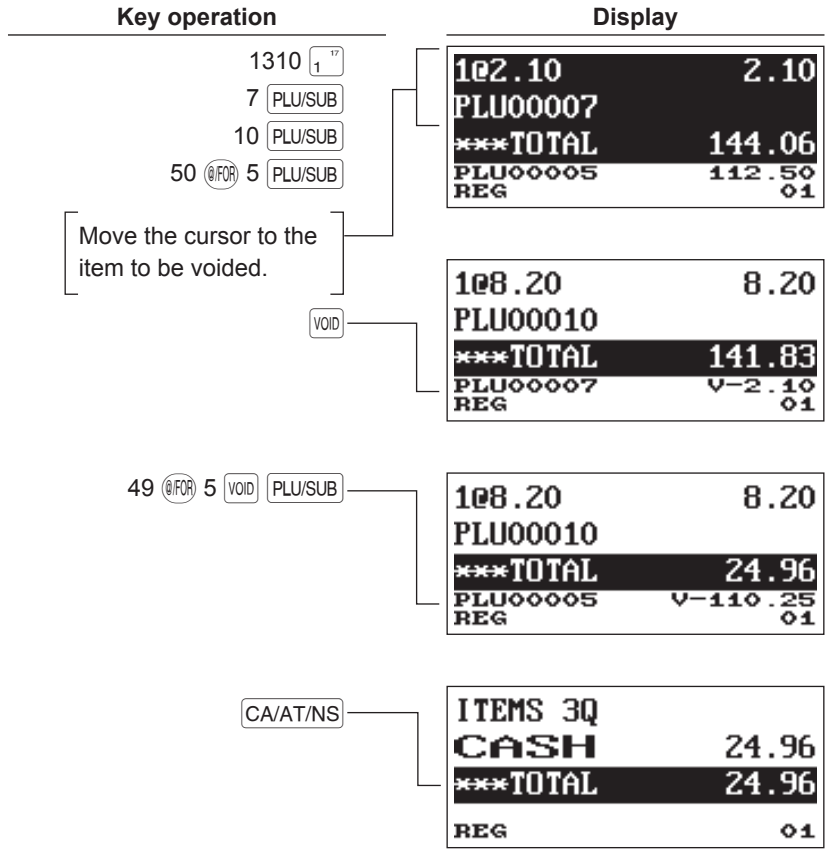
Move the cursor to the item to be voided, and press the VOID key.

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 [PLU/SUB]
2 [PLU/SUB]
10 [PLU/SUB]
Subtotal void: [#/TM/SBTL] [VOID] [#/TM/SBTL]

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. Select “3 VOID MODE” in the mode selection window.
2. 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                T1$37.50
PLU00001
1@ 5.10                  T1$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                T1$37.50
PLU00001
1@ 5.10                  T1$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 and 2 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

```
1@ 5.10                  T1$5.10
PLU00002
3@ 12.50                 T1$37.50
PLU00001
MDSE ST                    $42.60
TAX1                        $2.56

ITEMS 4Q
CASH                      $45.16
```

"COPY" is printed on the copy receipt.

```
          *COPY*
1@ 5.10                  T1$5.10
PLU00002
3@ 12.50                 T1$37.50
PLU00001
MDSE ST                    $42.60
TAX1                        $2.56

ITEMS 4Q
CASH                      $45.16
```

7 Manager Mode

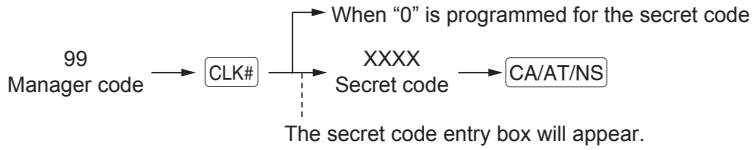
The manager mode is used when managerial decisions must be made concerning register entries, for example, for overriding limitations and for other various non-programming managerial tasks.

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:

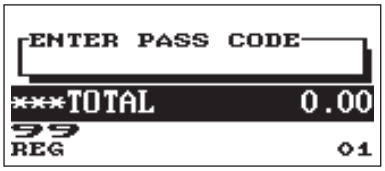
Procedure



Example

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

Display



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.

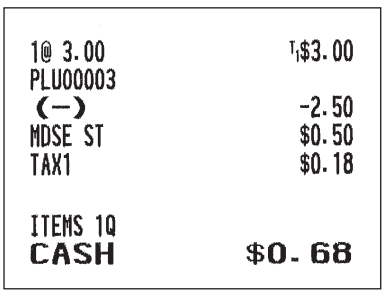
Key operation

REG-mode entries: 3 PLU/SUB; 250 ⊖ ····· Error; CL

Enter to the manager mode: 99 CLK#; 250 ⊖

CA/AT/NS

Print



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.

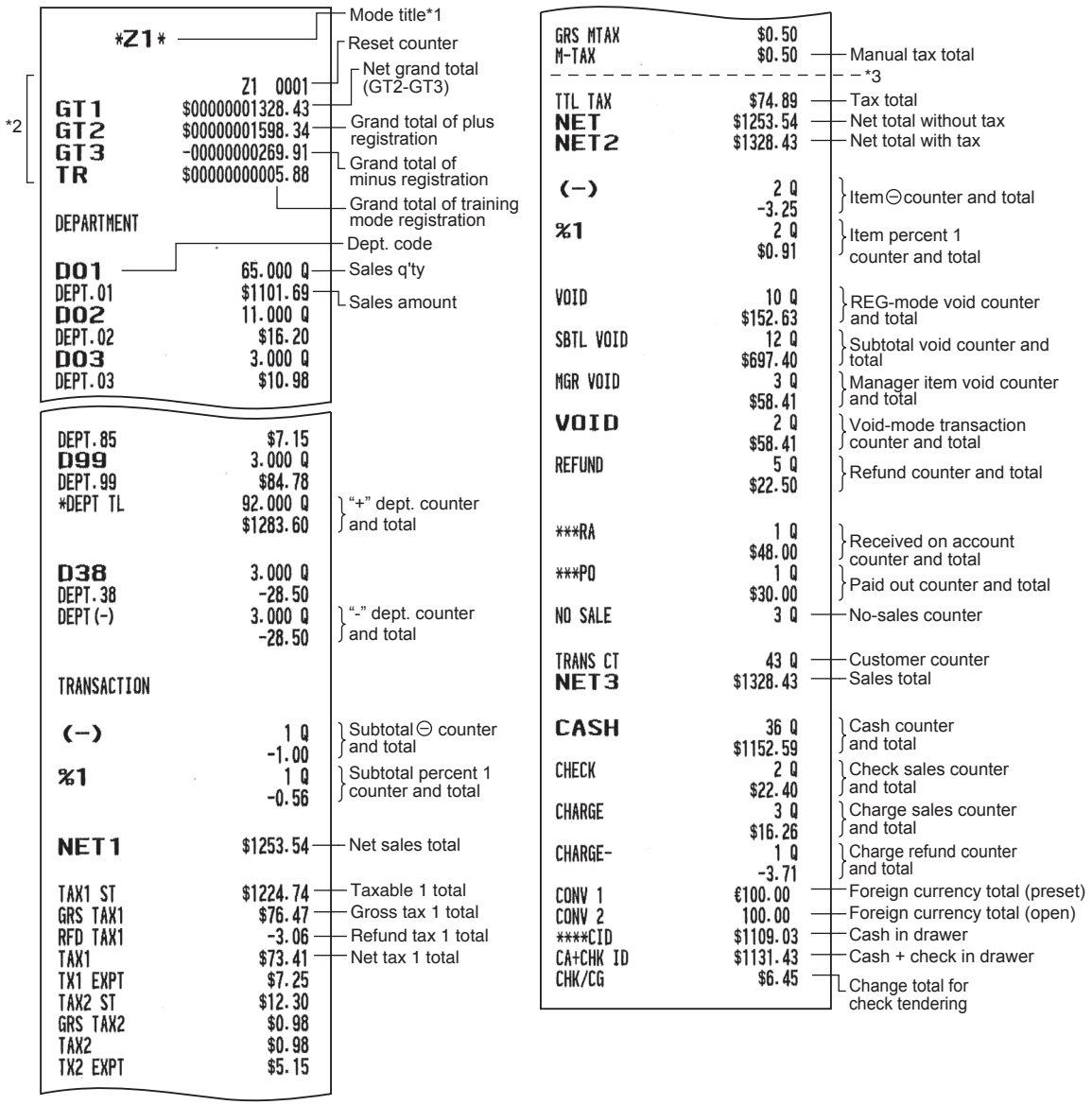
1. Press the [MODE] key.
2. Select the "4 X1/Z1 MODE" by using [↓] key, and press the [CA/AT/NS] key.
3. Select the "1 VIEW REPORT" , and press the [CA/AT/NS] key·
4. Select "1 DEPT. SALES" to take a view report of department sales, "2 CASH IN DRAWER" to take a view report of cash in drawer, or "3 SALES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

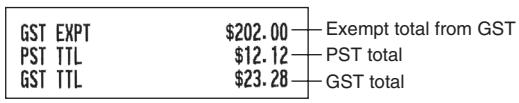
Daily Sales Totals

■ General report

• Sample report

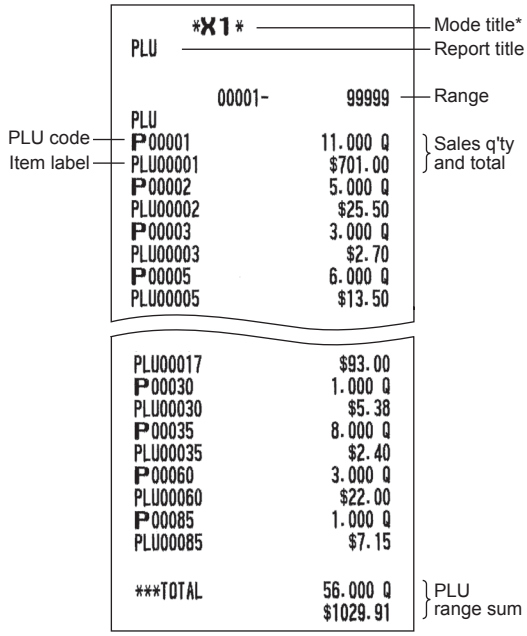


*1: When you take X1 report, "X1" is printed.
*2: Printed in the Z1 report only.
*3: When the Canadian tax system is selected, the following is printed here.



■ PLU report by designated range

• Sample report

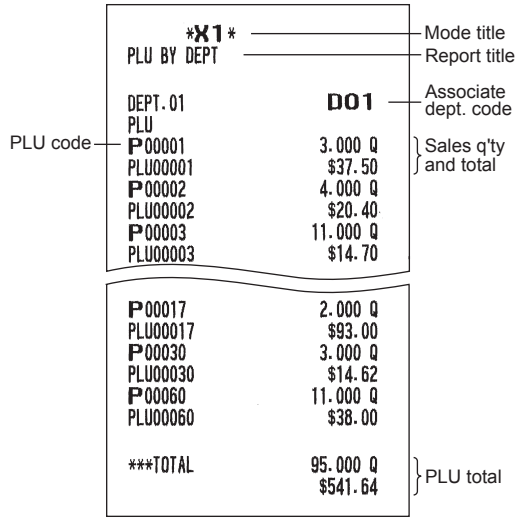


* When you take Z1 report, “Z1” is printed.

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

■ PLU report by associated department

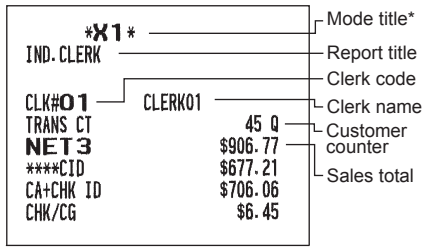
• Sample report



■ Clerk reports

Individual clerk report

• Sample report



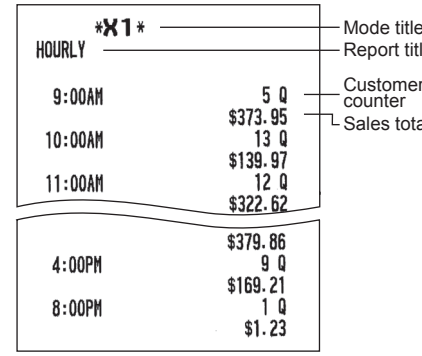
*: When you take OPZ report, “OPZ” is printed.

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



*: 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

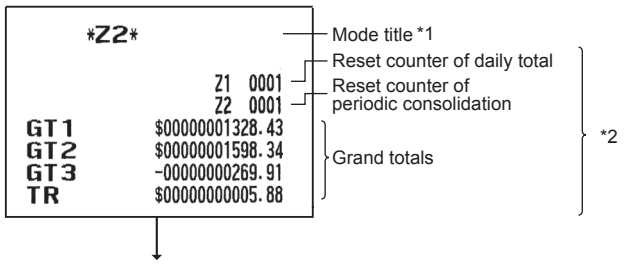
■ General information

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)



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

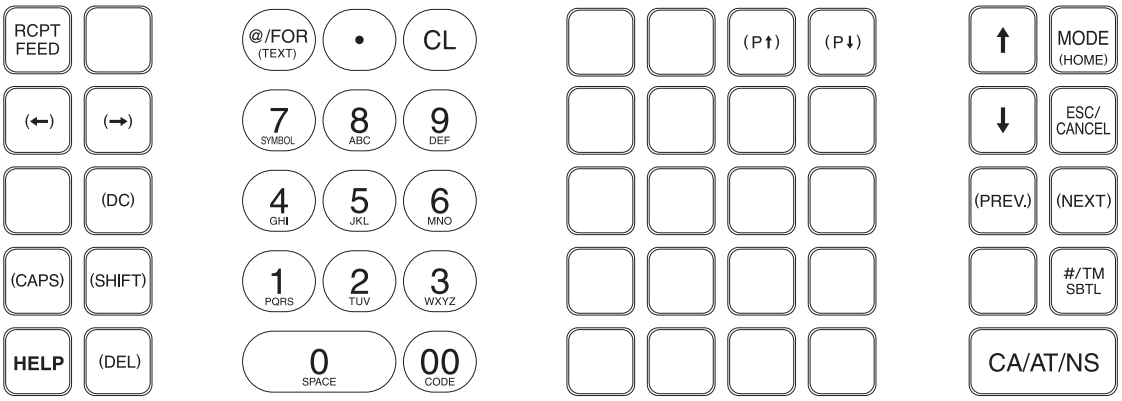
*1: When you take X2 report, “X2” is printed.
*2: Printed in the Z2 report only

9 Prior to Programming

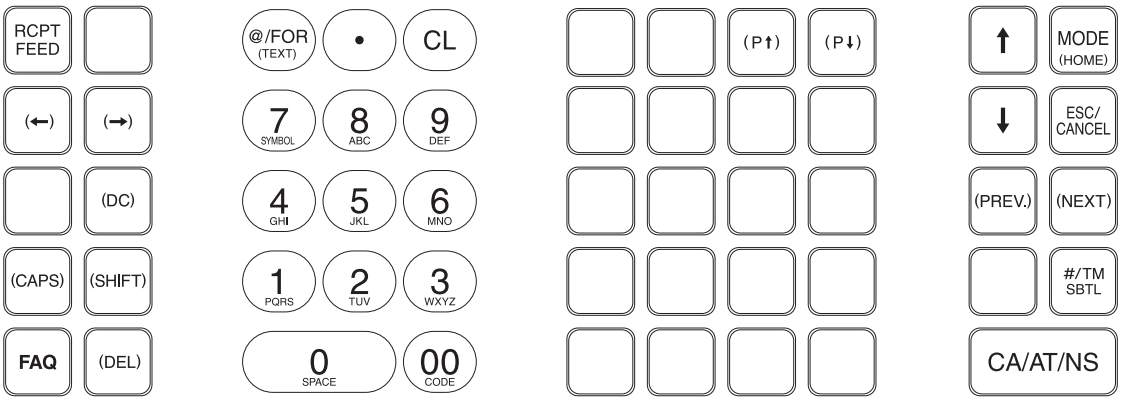
When you are in the PROGRAM mode, the keyboard layout will be set to one of the programming layouts as shown below.

Programming Keyboard Layout

■ For XE-A207



■ For XE-A23S



(SHIFT) (DC) (DEL) (CAPS) (TEXT) : 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.

CA/AT/NS : Used to program each setting and to finalize programming.

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

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

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

(P↓) : Used to scroll the window to go to the next page.

(P↑) : Used to scroll the window to go back to the previous page.

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

(•) : Used to toggle between two or more options.

#/TM SBTL : 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 - 047	032	033	034	035	036	037	038	039	040	041	042	043	044	045	046	047
		!	"	#	$	%	&	'	(	)	*	+	,	−	.	/
048 - 063	048	049	050	051	052	053	054	055	056	057	058	059	060	061	062	063
	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
064 - 079	064	065	066	067	068	069	070	071	072	073	074	075	076	077	078	079
	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
080 - 095	080	081	082	083	084	085	086	087	088	089	090	091	092	093	094	095
	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_
096 - 111	096	097	098	099	100	101	102	103	104	105	106	107	108	109	110	111
	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
112 - 127	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
	p	q	r	s	t	u	v	w	x	y	z	{	¦	}	~	⌂
128 - 143	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
144 - 159	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
	É	æ	Æ	ô	ö	ò	û	ù	ÿ	Ö	Ü	ø	£	Ø	×	ƒ
160 - 175	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
	á	í	ó	ú	ñ	Ñ	ª	º	¿	®	¢	½	¼	¡	«	»
176 - 191	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
	▒	▒	▓	│	┤	Á	Â	À	©	╣	║	╗	╝	¢	¥	┐
192 - 207	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
	└	┴	┬	├	─	┼	ã	Ã	╚	╔	╩	╦	╠	═	╬	¤
208 - 223	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
	ð	Ð	Ê	Ë	È	€	Í	Î	Ï	┘	┌	▉	▄	¦	Ì	▀
224 - 239	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
	Ó	ß	Ô	Ò	õ	Õ	µ	þ	Þ	Ú	Û	Ù	ý	Ý	¯	´
240 - 255	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
		±	‗	¾	¶	§	÷	¸	°	¨	·	¹	³	²	■	(DC)

*(DC) : Double-size character code

10 Programming

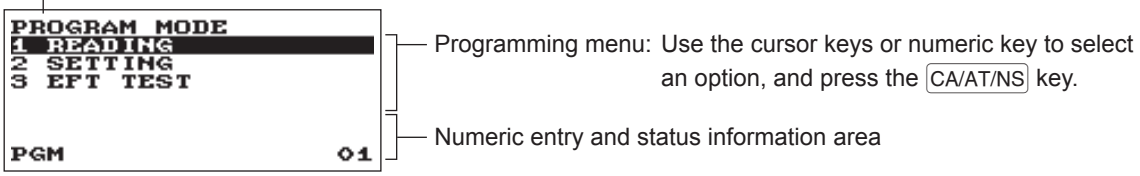
This chapter explains how to program various items.
Before you start programming, press the MODE key and select the “6 PROGRAM MODE” or “7 SD CARD MODE” by using the ↓ key and press the CA/AT/NS key.

Basic Instructions

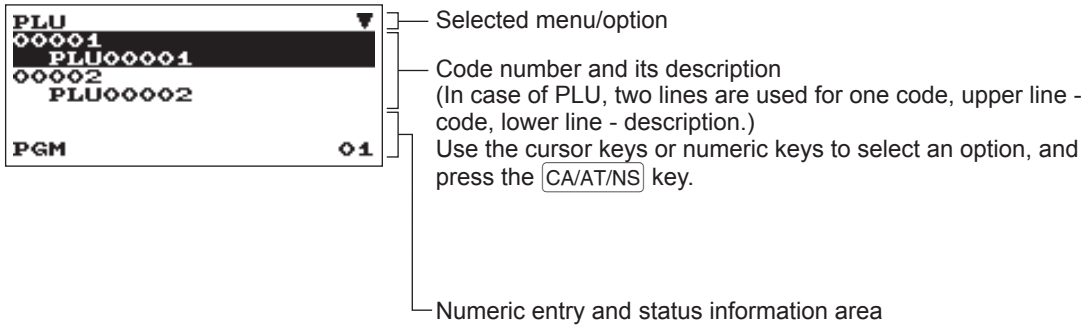
This section illustrates the basic programming by using an example of programming for departments.

■ Programming screen

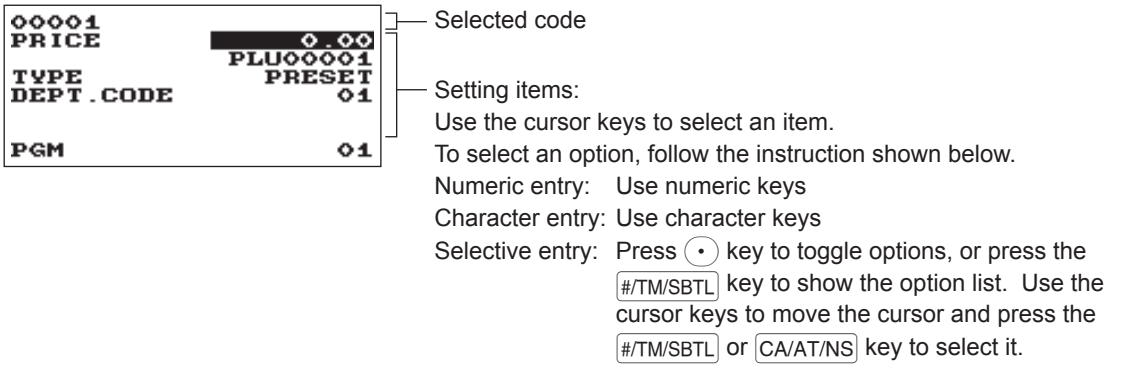
Opening screen: When you select the “6 PROGRAM MODE”, your display will show a programming opening screen corresponding to the mode you selected.



Code selecting screen (Dept. PLU):



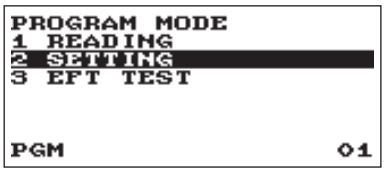
Programming screen:



■ 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

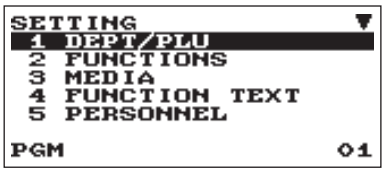


CA/AT/NS ↓ ↑ ESC/CANCEL

1. In the PROGRAM MODE screen, select “2 SETTING” by using the ↓ key and press the CA/AT/NS key.
- The SETTING screen will appear.

NOTE

- *You can also select “2 SETTING” by using numeric key “2,” then press the CA/AT/NS key.*
- *If you return to the previous screen, press the ESC/CANCEL key.*

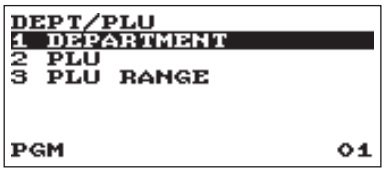


CA/AT/NS ↓ ↑ ESC/CANCEL

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

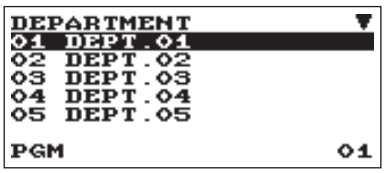
NOTE

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 P↓ key.
To return to the previous page, press the ↑ or P↑ key.



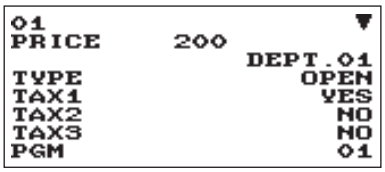
CA/AT/NS ↓ ↑ ESC/CANCEL

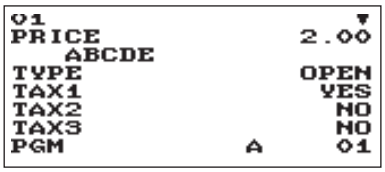
3. Select “1 DEPARTMENT.”
- The DEPARTMENT screen will appear, listing programmable departments.



CA/AT/NS ↓ ↑ ESC/CANCEL

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





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 to 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:

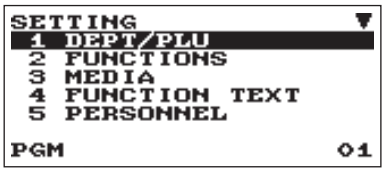
- To cancel the programming, press the [ESC/CANCEL] key. A confirmation window appears to ask you whether to save the data; select the option you prefer.
- To finalize the programming, press the [CA/AT/NS] key, then press the [ESC/CANCEL] key. You will return to the "DEPARTMENT" window.
- To program 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:

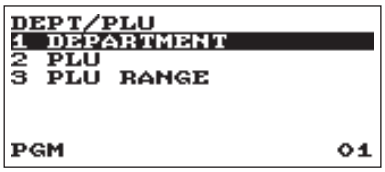
Procedure



CA/AT/NS ↓ ↑ ESC/CANCEL

1. In the SETTING window, select “1 DEPT/PLU”

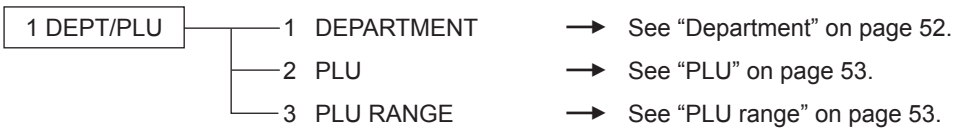
- The DEPT/PLU window will appear.



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.



→ See “Department” on page 52.

→ See “PLU” on page 53.

→ See “PLU range” on page 53.

■ 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 [DEL] 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.

▼



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 (DEL) 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.

▼



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

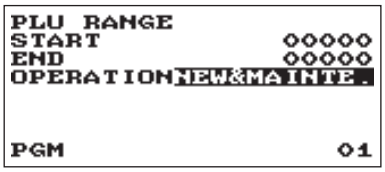
INHIBIT:	Inhibited
OPEN:	Open only
PRESET:	Preset only
OPEN & PRESET:	Open & preset

- **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

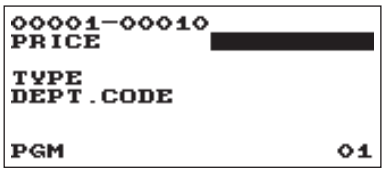
■ PLU range

You can program PLUs in the designated range.

Procedure



▼



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

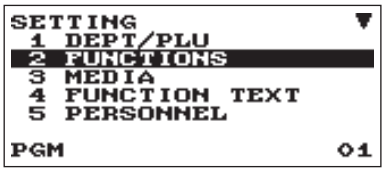
- **START (Use the numeric entry)**
  Starting PLU code (max. 5 digits)
- **END (Use the numeric entry)**
  Ending PLU code (max. 5 digits)
- **OPERATION (Use the selective entry)**

DELETE:	Enables you to delete a specified range of PLUs.
MAINTE.:	Enables you to change the setting you have programmed.
NEW&MAINTE.:	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.

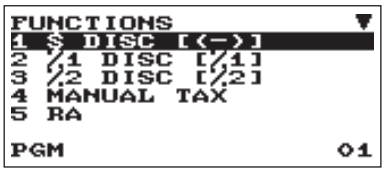
Functional Programming

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

Procedure



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

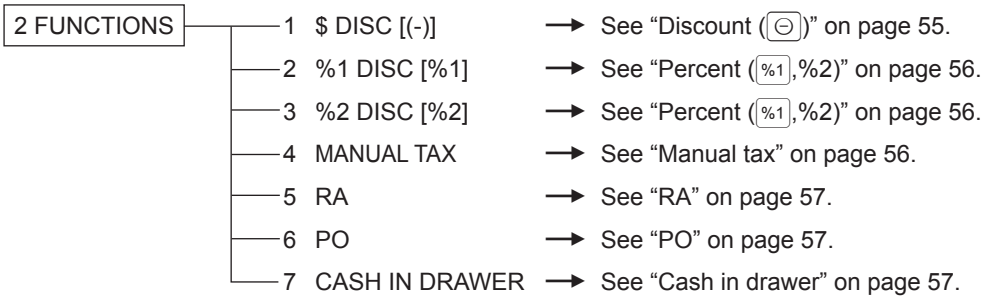


The screen continues.

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

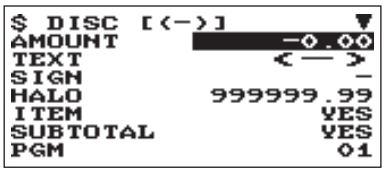
The following illustration shows those options included in this programming group.



→ See “Discount (⊖)” on page 55.
→ See “Percent (%1,%2)” on page 56.
→ See “Percent (%1,%2)” on page 56.
→ See “Manual tax” on page 56.
→ See “RA” on page 57.
→ See “PO” on page 57.
→ See “Cash in drawer” on page 57.

■ Discount (⊖)

Procedure



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

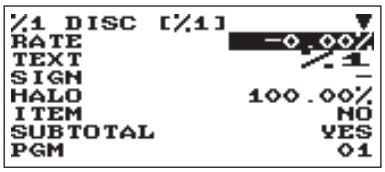
• ITEM (Use the selective entry)
YES: Enables the item discount.
NO: Disables the item discount.

• SUBTOTAL (Used the selective entry)
YES: Enables the subtoal 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



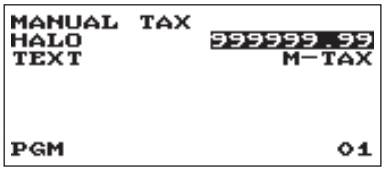
The screen continues.

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



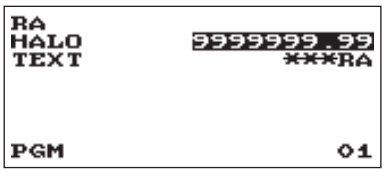
Program each item as follows:

- **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



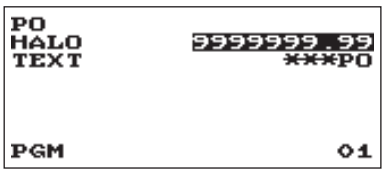
Program each item as follows:

- **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



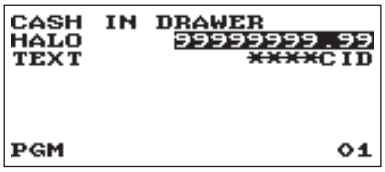
Program each item as follows:

- **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



Program each item as follows:

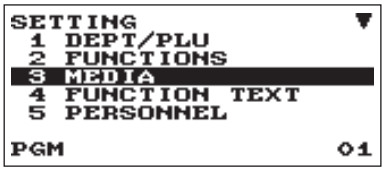
- **HALO (High Amount Lockout) (Use the numeric entry)**
  This function is intended for prevention of accidentally entered unreasonably amounts.
  Limit amount: 0.00 to 99999999.99

  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.

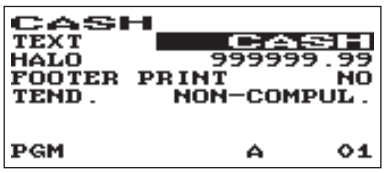
1	CASH	Cash
2	CHECK	Check
3	CHARGE	Charge
4	CONVERSION	Currency conversion

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

3 MEDIA
- 1 CASH → See "Cash key (Cash)" this page.
- 2 CHECK → See "Check key (Check)" on page 59.
- 3 CHARGE → See "Charge key (Charge)" on page 59.
- 4 CONVERSION → See "Currency conversion (CONV1, CONV2)" on page 60.

■ Cash key (Cash)

Procedure

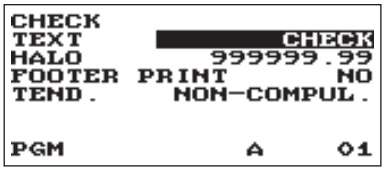


Program each item as follows:

- **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

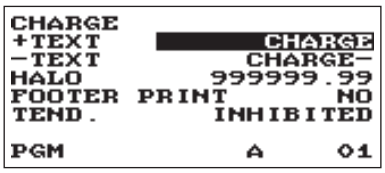


Program each item as follows:

- **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

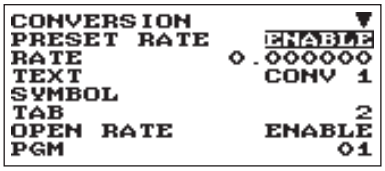


Program each item as follows:

- **+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



The screen continues.

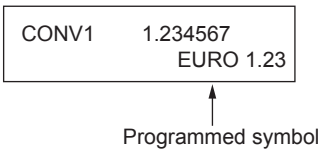
Program each item as follows:

- **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.

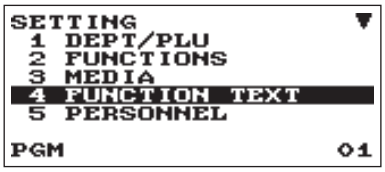
EX) Case of “EURO”:

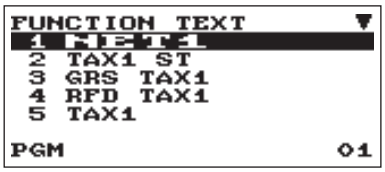


Function Text Programming

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

Procedure





The screen continues.

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.

List of function text

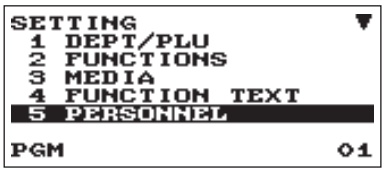
No.	Function	Default text
1	Net sales total	**NET1**
2	Net taxable 1 subtotal	TAX1 ST
3	Gross tax 1 total	GRS TAX1
4	Tax 1 total of refund entries	RFD TAX1
5	Net tax 1 total	TAX1
6	Exempt tax 1	TX1 EXPT
7	Net taxable 2 subtotal	TAX2 ST
8	Gross tax 2 total	GRS TAX2
9	Tax 2 total of refund entries	RFD 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

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

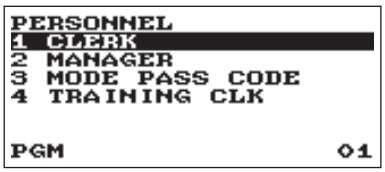
Personnel Programming

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

Procedure



▼



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

2. Select any option from the following options list.

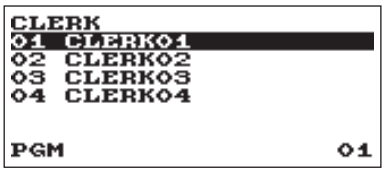
1	CLERK	Clerk
2	MANAGER	Manager
3	MODE PASS CODE	Mode Pass Code
4	TRAINING CLK	Training Clerk

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

5 PERSONNEL
- 1 CLERK → See "Clerk" this page.
- 2 MANAGER → See "Manager" on page 63.
- 3 MODE PASS CODE → See "Mode Pass Code" on page 63.
- 4 TRAINING CLK → See "Training Clerk" on page 63.

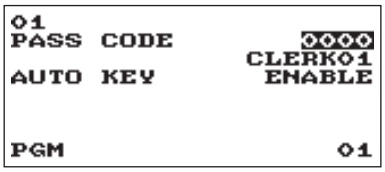
■ Clerk

Procedure



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

▼



Program each item as follows:

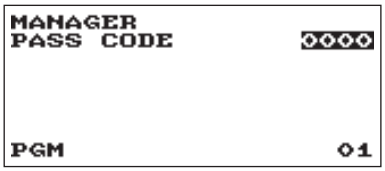
- **PASS CODE (Use the numeric entry)**
  Pass code (max. 4 digits: 0001 to 9999/0000)
- **Text (Use the character entry)**
  Description for the clerk name (Up to 16 characters can be entered.)
- **AUTO KEY (Use the selective entry)**
  ENABLE: Enables operation of the AUTO key.
  DISABLE: Disables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

NOTE *To delete a clerk code in the "CLERK" window, select the clerk code and press the DEL 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



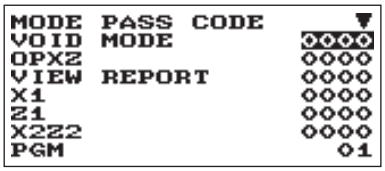
Program each item as follows:

- **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



The screen continues.

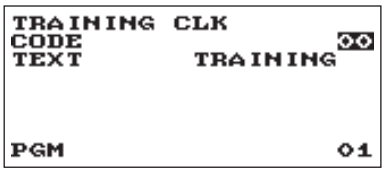
Program each item as follows:

- **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



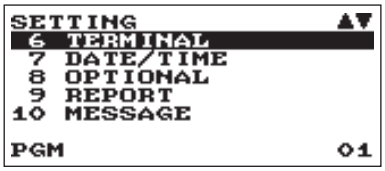
Program each item as follows:

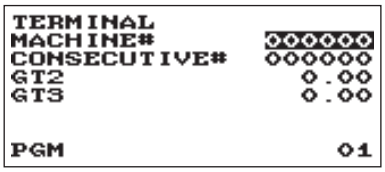
- **CODE (Use the numeric entry)**
  Clerk code in training (max. 2 digits: 00 to 25)
- **TEXT (Use the character entry)**
  Description for the training mode title (Up to 12 characters can be entered.)

Terminal Programming

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

Procedure





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)

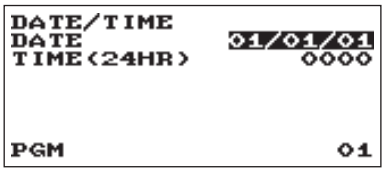
Date/Time Setting

You can set the date and time for the register.

■ Date/time

Procedure





1. In the SETTING window, select “7 DATE/TIME”.
- The DATE/TIME window will appear.

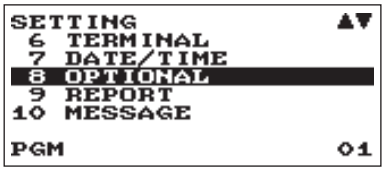
2. Set each item as follows:

- **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.

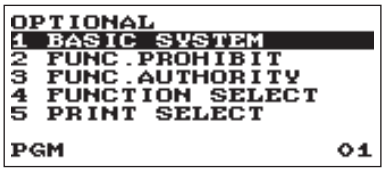
Optional Feature Selection

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

Procedure



▼



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

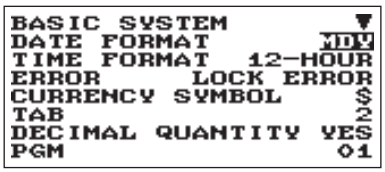
The following illustration shows those options included in this programming group.

8 OPTIONAL
- 1 BASIC SYSTEM → See “Basic System” on page 66.
- 2 FUNC.PROHIBIT → See “Function Prohibit” on page 67.
- 3 FUNC.AUTHORITY → See “Function Authority” on page 68.
- 4 FUNCTION SELECT → See “Function Selection” on page 69.
- 5 PRINT SELECT → See “Print Selection” on page 70.

■ Basic System

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

Procedure



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



The screen continues.

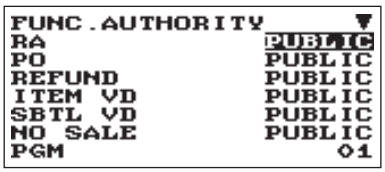
Program each item as follows:

- **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



The screen continues.

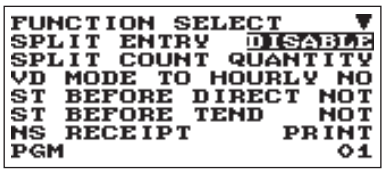
Program each item as follows:

- **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



The screen continues.

Program each item as follows:

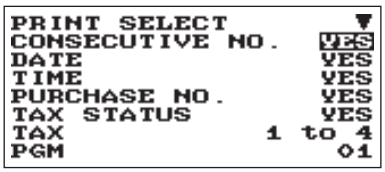
- **SPLIT ENTRY (Use the selective entry)**
  ENABLE: Enable the split pricing entry
  DISABLE: Disable the split pricing entry
- **SPLIT COUNT (Use the selective entry)**
  Count method of split pricing entry.
  PACKAGE: Unit of the package
  QUANTITY: Quantity

- **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



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 #/TM/SBTL key
  NO: Not to print the subtotal using the #/TM/SBTL 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

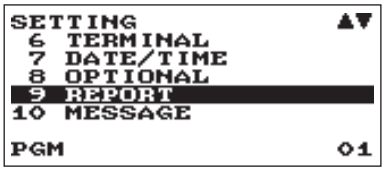
• GST VAT PRINT (Use the selective entry)

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

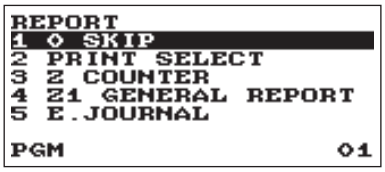
Report Programming

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

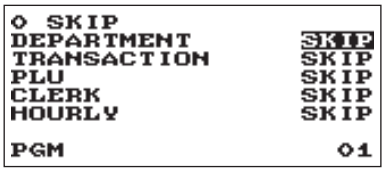
The following illustration shows those options included in this programming group.

9 REPORT
- 1 0 SKIP → See “Zero skip” on page 73.
- 2 PRINT SELECT → See “Print select” on page 74.
- 3 Z COUNTER → See “Z Counter” on page 75.
- 4 Z1 GENERAL REPORT → See “Z1 General report” on page 75.
- 5 E. JOURNAL → See “Electronic Journal” on page 75.

■ Zero skip

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

Procedure



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)

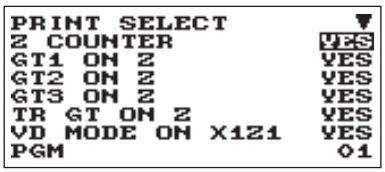
SKIP: Skips those data that are “0” in the hourly report.

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



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

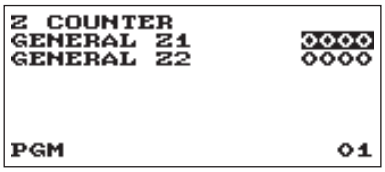
• PLU DATA ON Z (Use the selective entry)
YES: Print PLU data on the PLU Z report.
NO: Not to print PLU data on the PLU Z report.

• 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

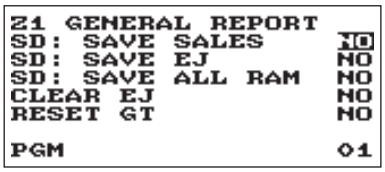
Procedure



GENERAL Z1: Max.4 digits (0000 to 9999)
GENERAL Z2: Max.4 digits (0000 to 9999)

■ Z1 General report

Procedure



- **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



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

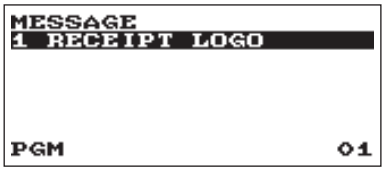
Message Programming

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

Procedure







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



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

Device Configuration Programming

Use the following procedure to select a device configuration programming:

Procedure







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

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

11 DEVICE CONFIG
- 1 KEYBOARD → See "Keyboard" this page.
- 2 DISPLAY → See "Display" on page 78.
- 3 PRINTER → See "Printer" on page 78.
- 4 EFT → See "EFT" on page 78.

■ Keyboard

Procedure



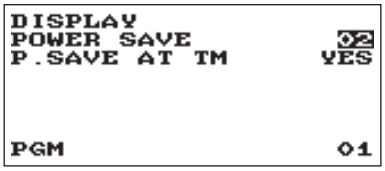
Program each item as follows:

• 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

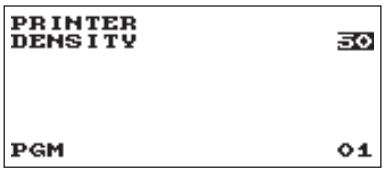


Program each item as follows:

- **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

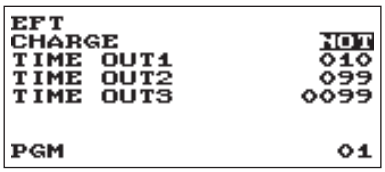


Program each item as follows:

- **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



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))

Tax Programming

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

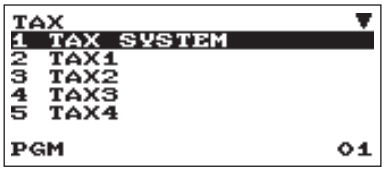
NOTE *The register is adapted to US and Canadian tax systems. If the Canadian tax system is required, the tax system must be changed, then program the tax rate or tax table and quantity for doughnut exempt which are described in this section.*

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





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:

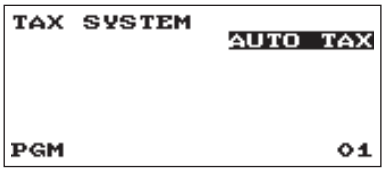
1	TAX SYSTEM	Tax system
2	TAX1	Tax1
3	TAX2	Tax2
4	TAX3	Tax3
5	TAX4	Tax4
6	DOUGHNUT EXEMPT	Doughnut exempt

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

12 TAX
- 1 TAX SYSTEM → See “Tax system” on page 80.
- 2 TAX1 → See “Tax1” on page 81.
- 3 TAX2 → See “Tax2” on page 81.
- 4 TAX3 → See “Tax3”on page 81.
- 5 TAX4 → See “Tax4”on page 81.
- 6 DOUGHNUT EXEMPT → See “Doughnut exempt”on page 83.

■ Tax system

Procedure



- **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

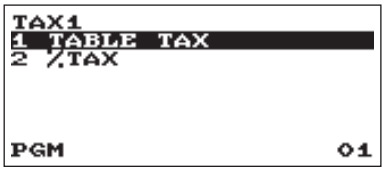
(The most common type for Canada is type "CANADA TAX 06".)

	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



▼

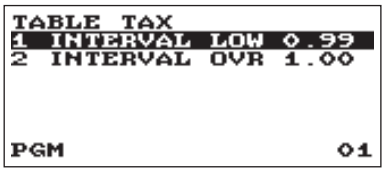
(To the following table tax or % tax)

Selection of tax method

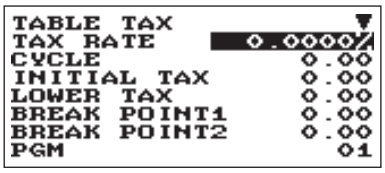
TABLE TAX: Programmed tax table is used.
% TAX: Programmed % tax rate is used.

• Table tax

Procedure



▼



The screen continues.

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>

New Jersey tax table: 6%

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

Taxes	Range of sales amount		
	Minimum breakpoint		Maximum breakpoint
.00	.01	to	.10
.01 ← T	.11 ← Q	to	.22
.02	.23	to	.38
.03	.39	to	.56
.04	.57	to	.72
.05	.73	to	.88
.06	.89	to	1.10
.07	1.11 ← M1	to	1.22
.08	1.23	to	1.38
.09	1.39	to	1.56
.10	1.57	to	1.72
.11	1.73	to	1.88
.12	1.89	to	2.10
.13	2.11 ← M2	to	2.22



A: Difference between the minimum breakpoint and the next one (¢)	
–	B: Non-cyclic
10 (0.11 - 0.01)	
12 (0.23 - 0.11)	C: Cyclic-1
16 (0.39 - 0.23)	
18 (0.57 - 0.39)	
16 (0.73 - 0.57)	
16 (0.89 - 0.73)	
22 (1.11 - 0.89)	
12 (1.23 - 1.11)	D: Cyclic-2
16 (1.39 - 1.23)	
18 (1.57 - 1.39)	
16 (1.73 - 1.57)	
16 (1.89 - 1.73)	
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 New Jersey 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:	0.79	(enter 79)
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	B: Non-cyclic
10 (0.11-0.01)	
15 (0.26-0.11)	C: Cyclic-1
21 (0.47-0.26)	
21 (0.68-0.47)	
21 (0.89-0.68)	
0 (0.89-0.89)	
22 (1.11-0.89)	
0 (1.11-1.11)	
0 (1.11-1.11)	
15 (1.26-1.11)	D: Cyclic-2
21 (1.47-1.26)	
21 (1.68-1.47)	
21 (1.89-1.68)	
0 (1.89-1.89)	
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



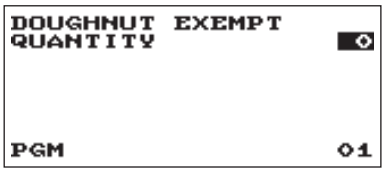
Program each item as follows:

• 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



Program each item as follows:

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

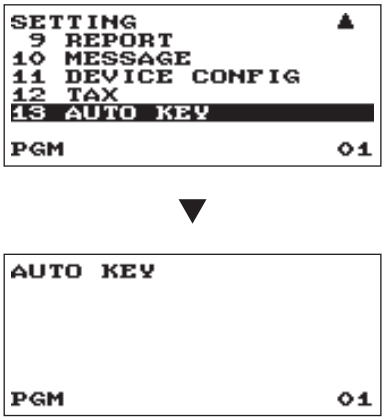
NOTE *The programming is effective for "taxable 1 & taxable 3" items on Canadian tax (CANADA TAX 01 or CANADA TAX 10).*

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



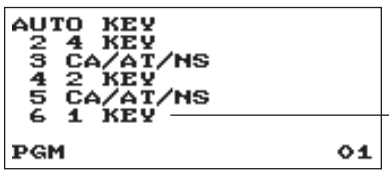
1. In the SETTING window, select “13 AUTO KEY.”
- The AUTO KEY window will appear.

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.



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

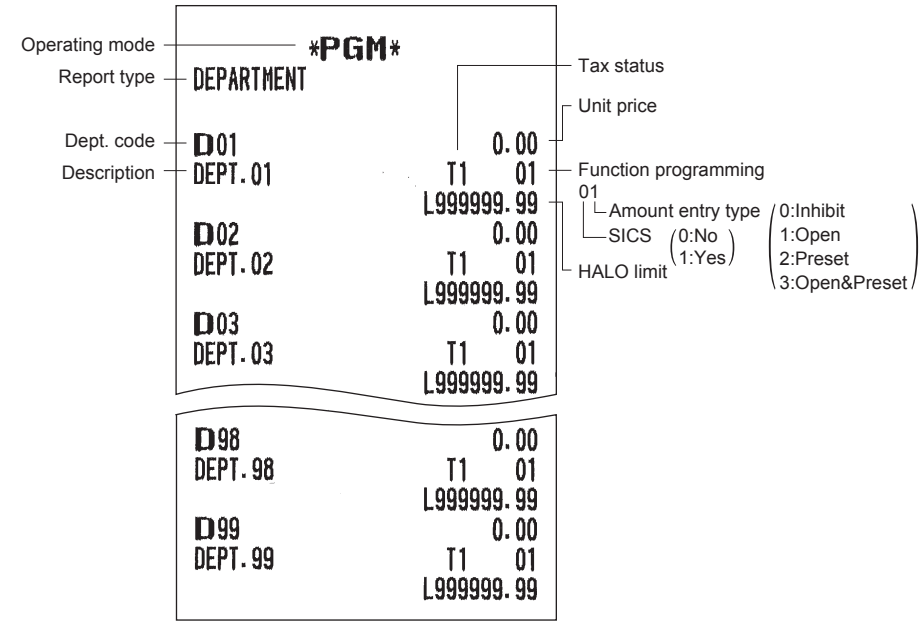
To read those programs stored in the PROGRAM mode, use the following procedure:

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.

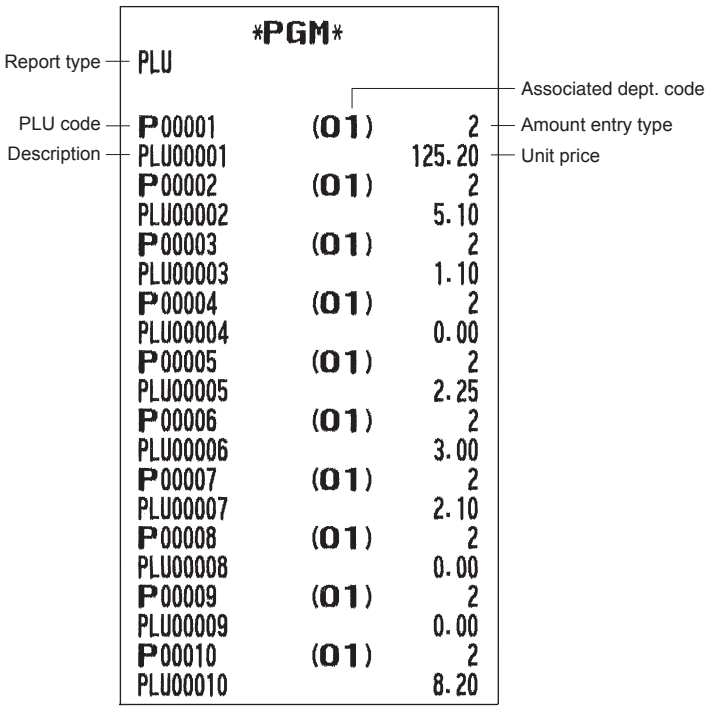
	Item:	Description:
1	DEPARTMENT	Department (Full or specified range)
2	PLU	PLU (Full or specified range)
3	FUNCTIONS	Function
4	MEDIA	Media
5	FUNCTION TEXT	Function Text
6	CLERK	Clerk
7	MANAGER	Manager
8	MODE PASS CODE	Mode pass code
9	TRAINING CLK	Training clerk
10	OPTIONAL	Optional feature
11	REPORT	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

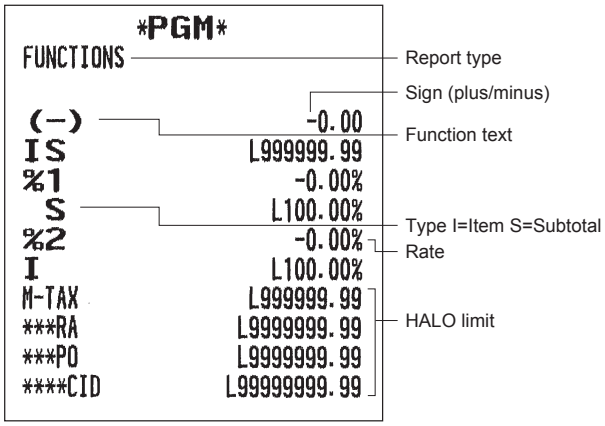
• Departments



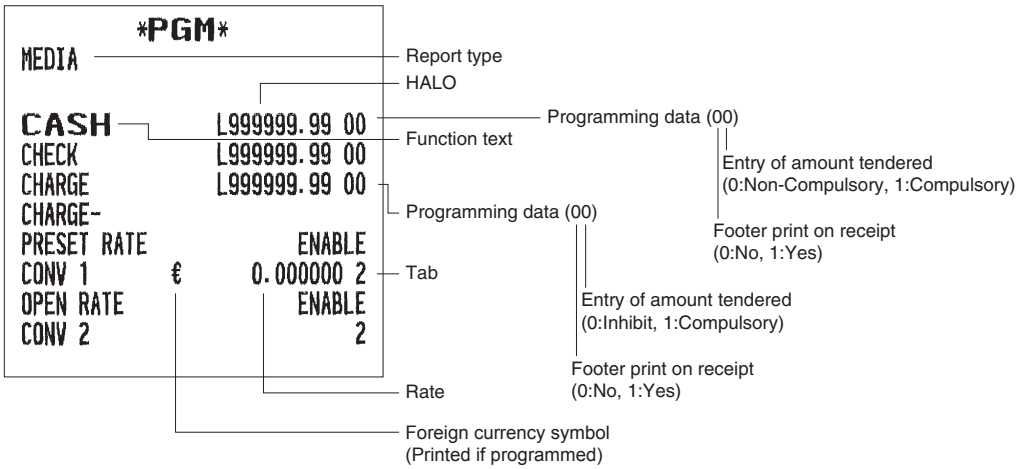
• PLU



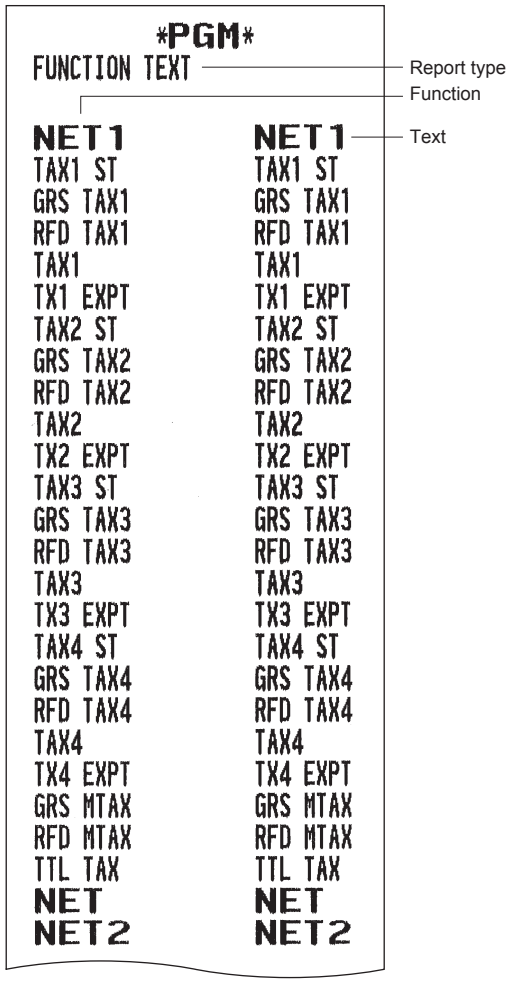
• **Functions**

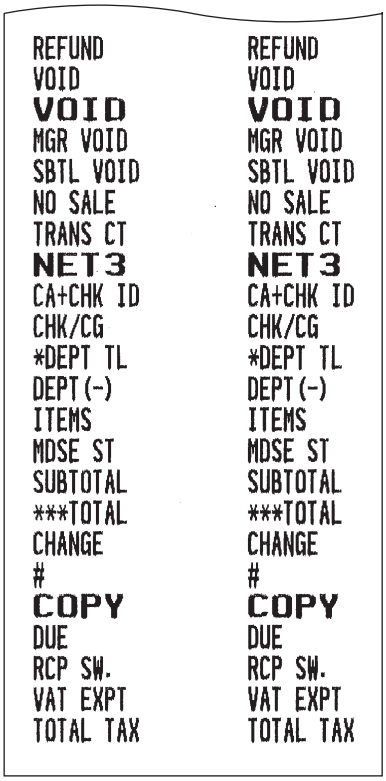


• **Media**



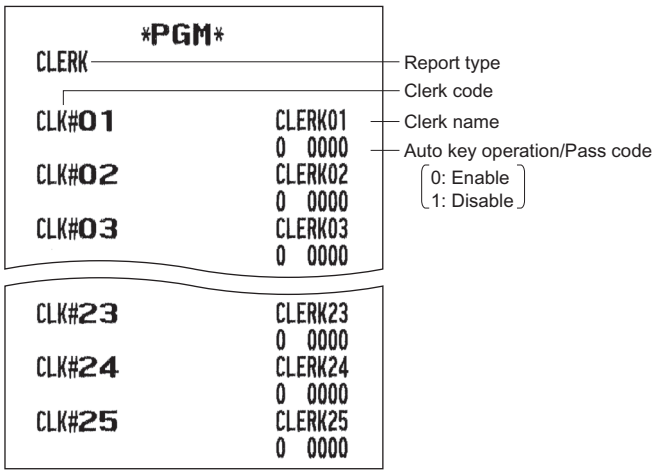
• **Function text**



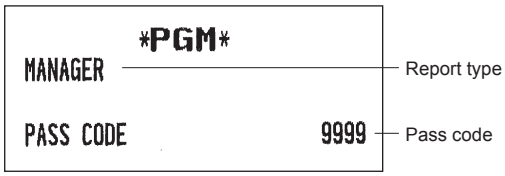


NOTE *The text of “GST EXMPT”, “PST TTL” and “GST TTL” appears only when Canadian tax is selected.*

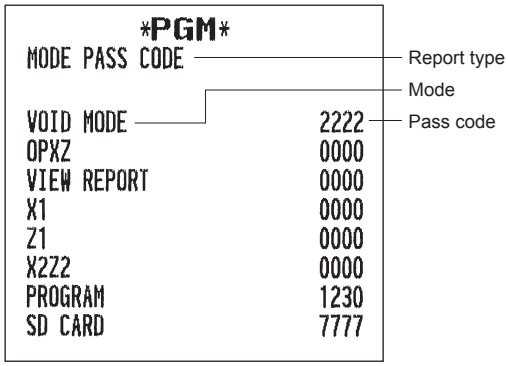
• **Clerk**



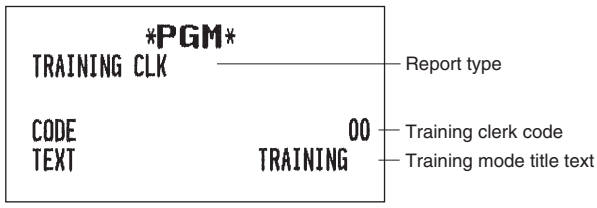
• **Manager**



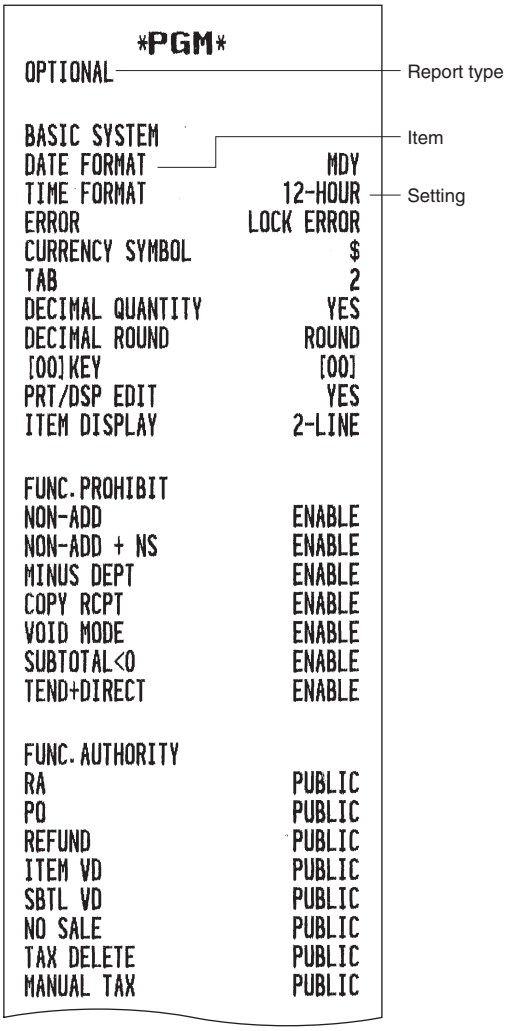
• **Mode pass code**

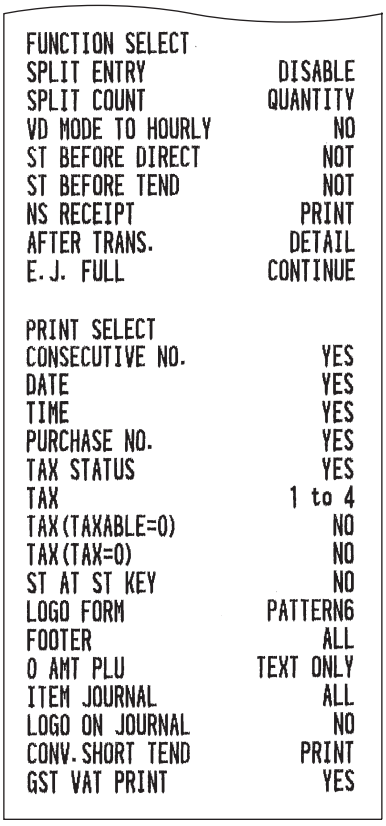


• **Training clerk**

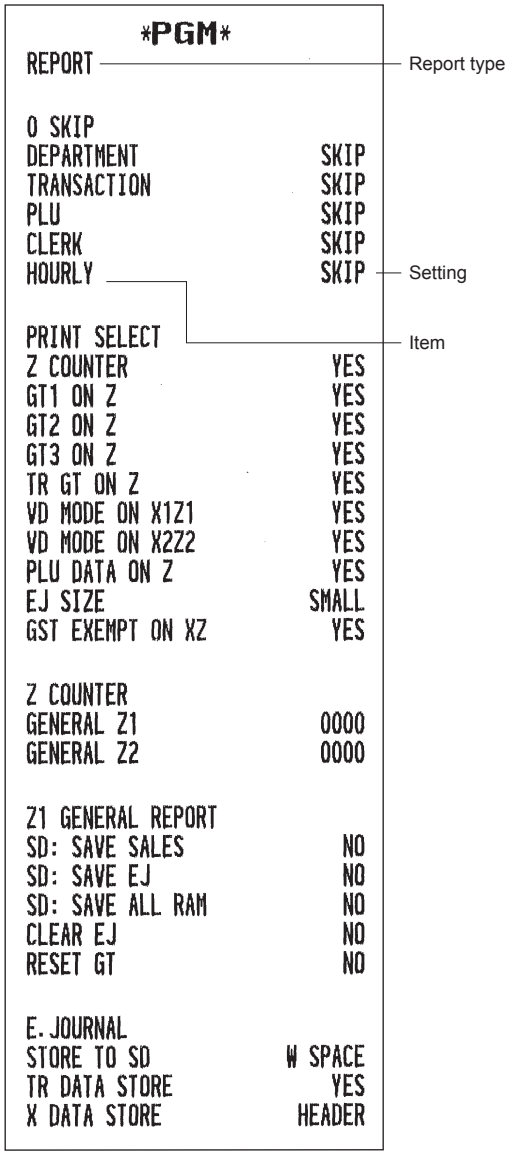


• **Optional feature**

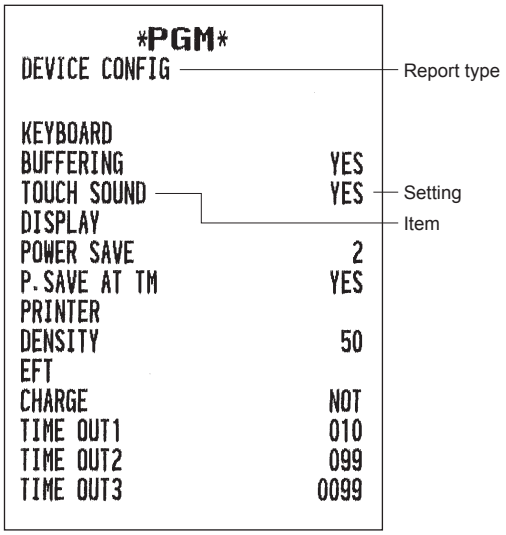




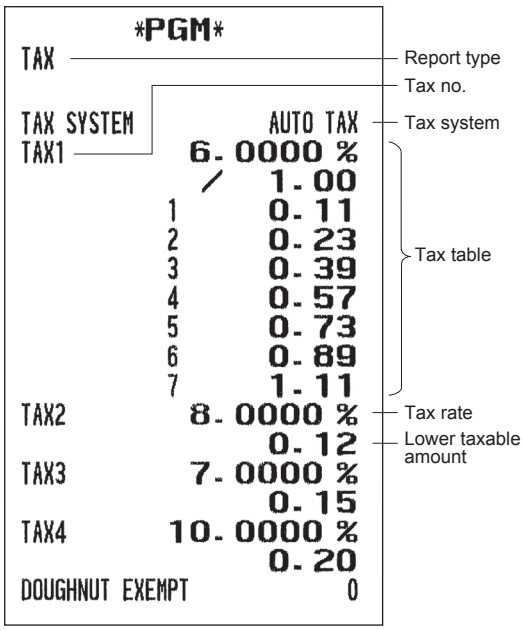
• **Report setting**



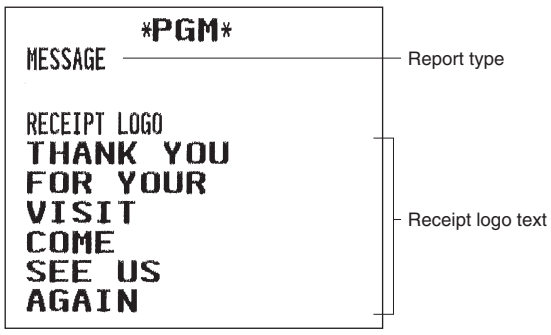
• **Device configuration**



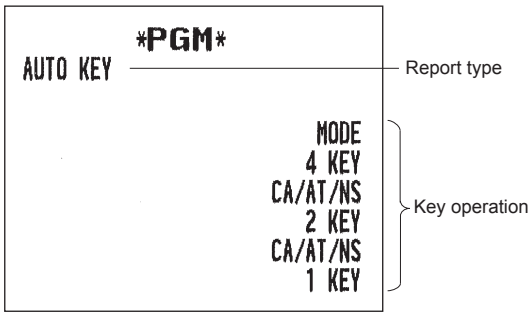
• **Tax**



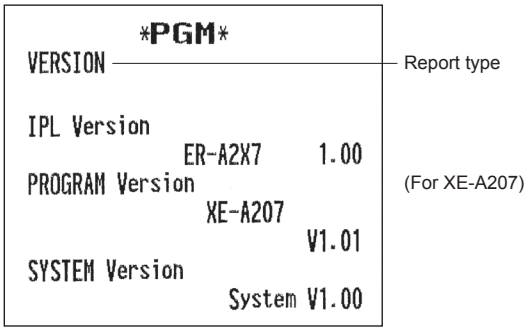
• **Message**

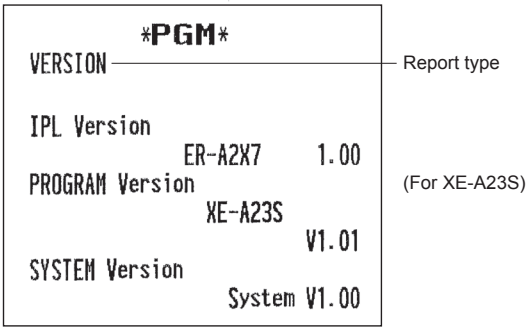


• **AUTO key**



• **ROM version**

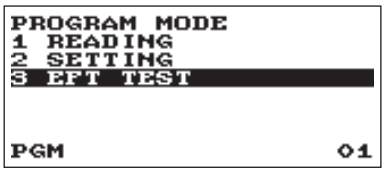




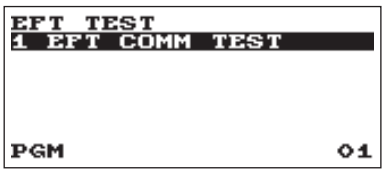
EFT Test Function

Use the following procedure to perform the EFT test function.

Procedure



▼



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

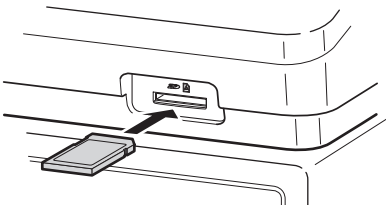
You can exchange data through an SD memory card between your register and a PC when managing the data in your register by using the SHARP's PC software "Customer Support Tool".
Customer Support Tool can be downloaded from the Sharp web site.
Please visit the Sharp web site: **http://www.sharpusa.com/registersoftware**
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 "Customer Support Tool".

■ 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 register
Select 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.

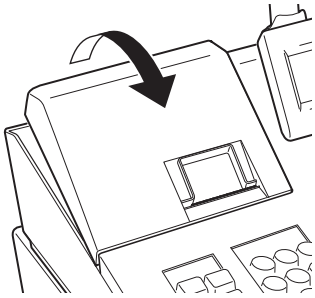
Installing Batteries

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:*

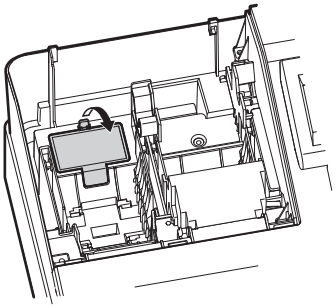
- *Be sure that the positive (+) and negative (-) poles of each battery are oriented properly.*
- *Never mix batteries of different types.*
- *Never mix old batteries and new ones.*
- *Never leave dead batteries in the battery compartment.*
- *Remove the batteries if you plan not to use the register 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

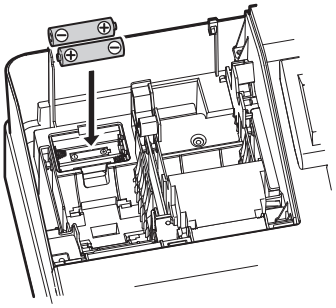


1. Be sure the register is plugged in.

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.

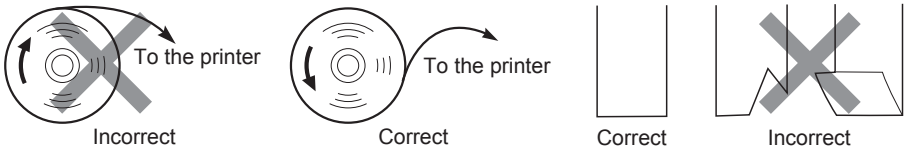
Paper specification

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.

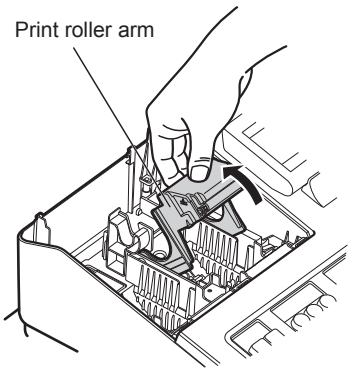
Install the paper roll in the printer. Be careful then to set the roll and cut the paper end correctly.

(How to set the paper roll) **(How to cut the paper end)**

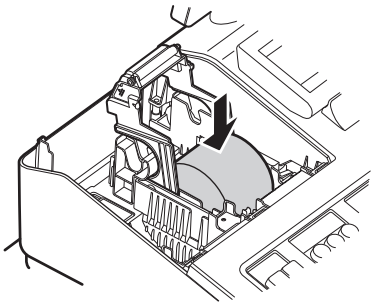


■ Installing the Paper Roll

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

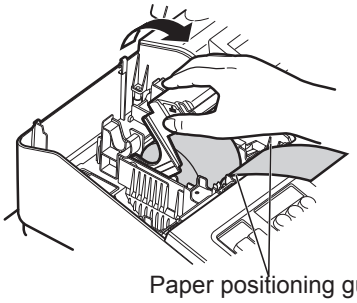


1. Remove the printer cover.
2. Lift up the print roller arm.



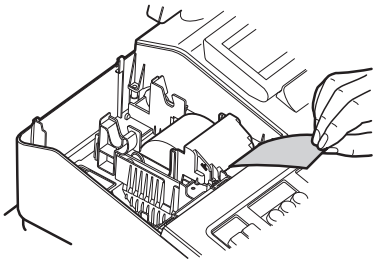
3. Set a paper roll in the paper roll cradle as per the diagram.





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

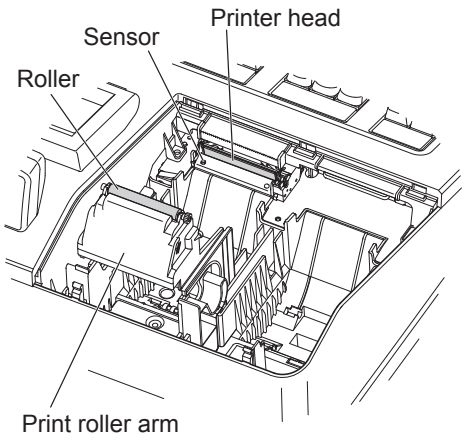
CAUTION: The paper cutter is mounted on the printer cover. Be careful not to cut yourself. Never touch the printer head immediately after printing, as the head may still be hot.

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)

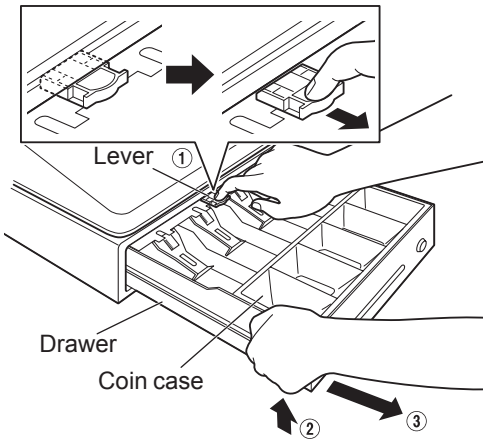
When the printed text is getting dark or faint, paper dust may be stuck to the printer head, sensor and/or roller. Clean them as follows:

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”.

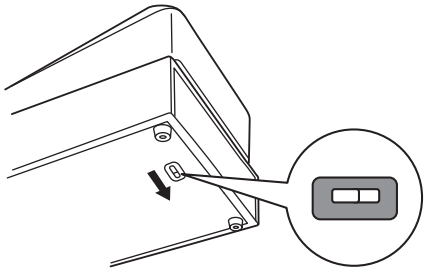
Removing the Drawer



The drawer in the register is detachable. After closing your business for the day, remove the drawer. To detach the drawer, pull the lever fully out, and while holding the lever out, lift the drawer slightly and remove. The 5-denomination coin case is detachable.

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.	• 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.	• Is a clerk code assigned to the register? • Is the register in the REG mode?
• No receipt is issued.	• 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.	• 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:	XE-A207 XE-A23S	
Dimensions:	13.6 (W) x 15.4 (D) x 11.8 (H) in. (345 (W) x 390 (D) x 300 (H) mm)	
Weight:	Approx. 17.6 lb (8 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: Customer display:	LCD display with Tilt mechanism 160 (W) x 64 (H) (dots) 7-segment LED display
Printer:	Type: Printing speed: Printing capacity: Other functions: - Receipt (ON-OFF) function - Compression print for an electronic journal	One-station thermal printer Approx. 12 lines/second 30 digits
Logo:	Graphic logo printing: Size: Logo message printing: Logo message for the receipt (max. 30 characters x 6 lines)	 130 (H) x 360 (W) pixel Area of black must be less than 35% of all area.
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:	4 slots for bills and 5 for coin denominations	
Accessories:	Quick Start Guide: Instruction manual: Paper roll: Drawer lock key: EFT flyer:	1 copy 1 copy 1 1 1

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

END-USER LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first end-user purchaser (the "Purchaser") that this Sharp brand product (the "Product"), when new and shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equipment at no charge to the Purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the Purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

To the extent permitted by applicable state law, the warranties set forth herein are in lieu of, and exclusive of, all other warranties, express or implied. Specifically, ALL OTHER WARRANTIES OTHER THAN THOSE SET FORTH ABOBE ARE EXCLUDED. ALL EXPRESS AND IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR USE, AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. If, under applicable state law, implied warranties may not validly be disclaimed or excluded, the duration of such implied warranties is limited to the period(s) from the date of purchase set forth below.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the Purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the Purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow limits on warranties or on remedies for branch in certain transactions; in such states, the limits herein may not apply.

Model Specific Section (Carry-in Service)

Your Product Model Number & Description:	XE-A207/XE-A23S Cash Register (Be sure to have this information available when you need service for your product.)
Warranty Period for this Product:	One (1) year parts and 90 days labor from date of purchase
Additional Item(s) Excluded from Warranty Coverage (if any):	Any consumable items such as paper supplied with the Product.
Where to Obtain Service:	From a Sharp Authorized Servicer located in the United States. To find the location of the nearest Sharp Authorized Servicer, call SHARP toll free at 1-800-BE-SHARP.
What to do to Obtain Service:	Ship prepaid or carry in your Product to a Sharp Authorized Servicer. Be sure to have **Proof of Purchase** available. If you ship the Product, be sure it is insured and packaged securely.

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please visit www.sharpusa.com

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