

SHARP®

ELECTRONIC CASH REGISTER

MODEL

ER-A280F
ER-A280N

INSTRUCTION MANUAL



The above illustration shows the model ER-A280N.

ER-A280F/ER-A280N

SHARP®

CAUTION: Please observe the following when an optional drawer is used.

The drawer unit should be securely fitted to the supporting platform to avoid instability when the drawers are open.

CAUTION:

The socket-outlet shall be installed near the equipment and shall be easily accessible.

VORSICHT:

Die Netzsteckdose muß nahe dem Gerät angebracht und leicht zugänglich sein.

ATTENTION:

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

AVISO:

El tomacorriente debe estar instalado cerca del equipo y debe quedar bien accesible.

WARNING:

Det matande vägguttaget skall placeras nära apparaten och vara lätt åtkomligt.

LET OP:

Het stopcontact dient in de buurt van de kassa en gemakkelijk toegankelijk te zijn.

CAUTION:

For a complete electrical disconnection pull out the mains plug.

VORSICHT:

Zur vollständigen elektrischen Trennung vom Netz den Netzstecker ziehen.

ATTENTION:

Pour obtenir une mise hors-circuit totale, débrancher la prise de courant secteur.

AVISO:

Para una desconexión eléctrica completa, desenchufar el enchufe de tomacorriente.

WARNING:

För att helt koppla från strömmen, dra ut stickproppen.

LET OP:

Trek de stekker uit het stopcontact indien u de stroom geheel wilt uitschakelen.

Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Warnung

Dies ist eine Einrichtung der Klasse A. Diese Einrichtung kann im Wohnbereich Funkstörungen verursachen; in diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen durchzuführen und dafür aufzukommen.

Avertissement

Ceci est un produit de Classe A. Dans un environnement domestique ce produit risque de provoquer une interférence radio, auquel cas l'utilisateur sera obligé d'observer les mesures adéquates.

Advertencia

Este es un producto de la clase A. En un ambiente doméstico es posible que este producto cause radiointerferencia. En este caso se solicita al usuario que tome medidas adecuadas.

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INTRODUCTION

Thank you very much for your purchase of the SHARP Electronic Cash Register Model ER-A280F/A280N. Please read this manual carefully before operating your machine 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

- **Install your register in a location that is not subject to direct sunlight, unusual temperature changes, high humidity or exposure to water sources and keep away from heat and magnetic sources.**
Installation in such locations could cause damage to the cabinet and the electrical components.
- **The register should not be operated by an individual with wet hands.**
The water could seep into the interior of the register and cause component failure.
- **Do not apply excessive pressure to the display.**
Do not use a sharp-pointed object on the display.
The LCD display will be damaged easily.
- **When cleaning your register, use a dry, soft cloth. Never use solvents, such as benzene and/or thinner.**
The use of such chemicals will lead to discoloration or deterioration of the cabinet.
- **The surface of the screen may become smeared and accumulate dust during use.**
Gently wipe the surface of the screen with a soft cloth that has been dipped in a mild detergent solution and squeezed dry.
- **The register plugs into any standard wall outlet (official (nominal) voltage).**
Other electrical devices on the same electrical circuit could cause the register to malfunction.
- **If the register malfunctions, call your authorized SHARP dealer for service - do not try to repair the register yourself.**
- **For a complete electrical disconnection, the AC power cord must be removed from the wall outlet.**

PRECAUTION

This register has a built-in memory protection circuit which is operated by a rechargeable battery pack. It should be known that all batteries will, in time, dissipate their charge even if not used. Therefore to insure an adequate initial charge in the protection circuit and to prevent any possible loss of memory upon installation, it is recommended that each unit be allowed to be recharged for a period of 24 to 48 hours prior to use by the customer.

In order to charge the battery pack, the machine must be plugged in. This recharging precaution can prevent unnecessary initial service calls.

The battery pack is a consumable part, and its operating time will get shorter gradually each time it is recharged for memory backup.

When the battery pack cannot be charged enough to perform memory backup, it indicates that the service life of the battery pack has expired.

If this is the case, consult your authorized SHARP dealer.

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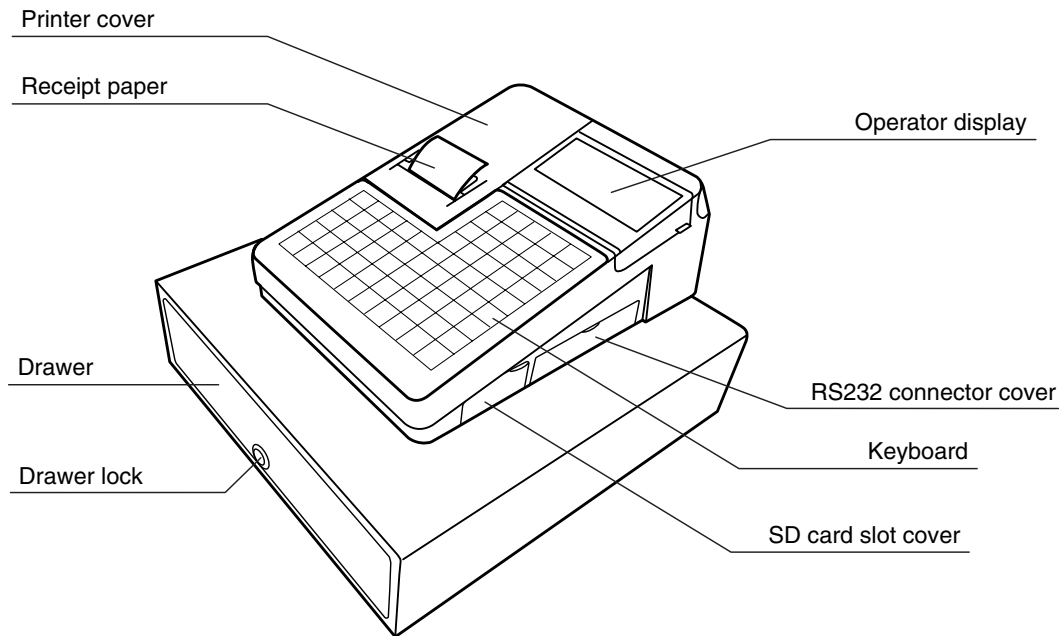
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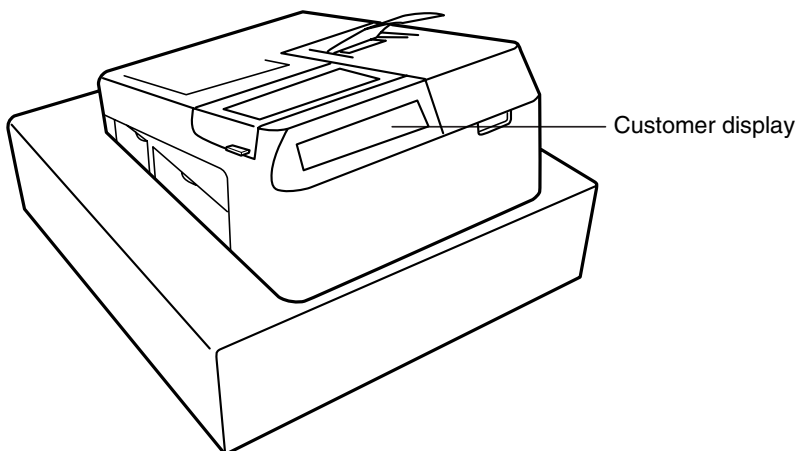
Part Names and Functions

External View

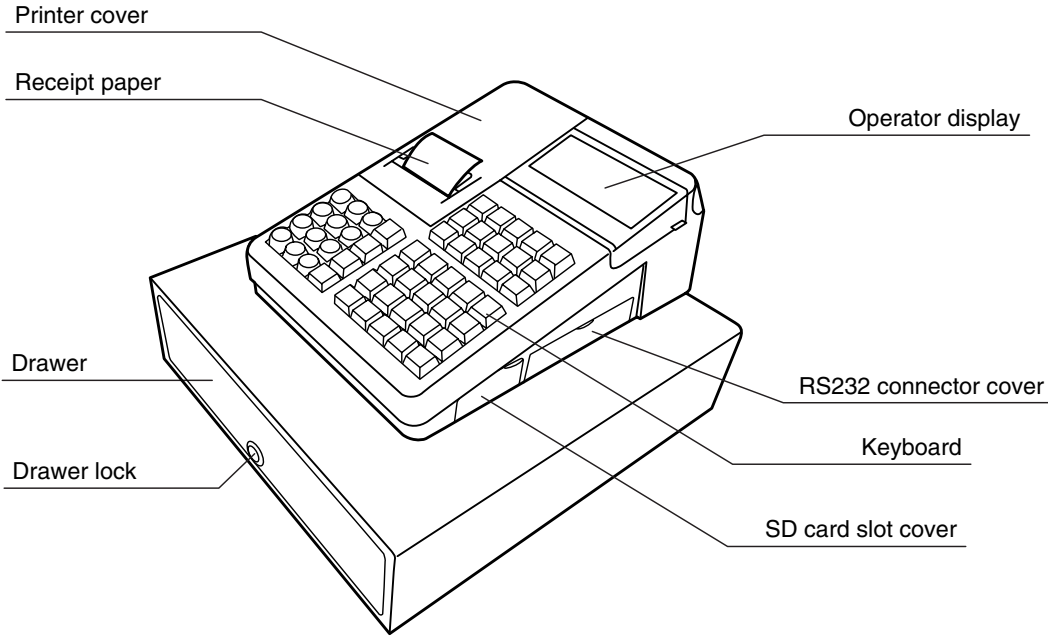
■ Front view (ER-A280F)



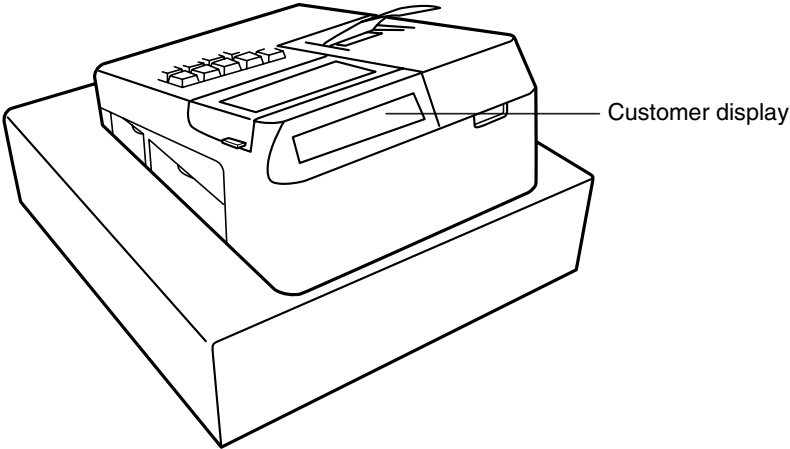
■ Rear view (ER-A280F)



■ Front view (ER-A280N)



■ Rear view (ER-A280N)



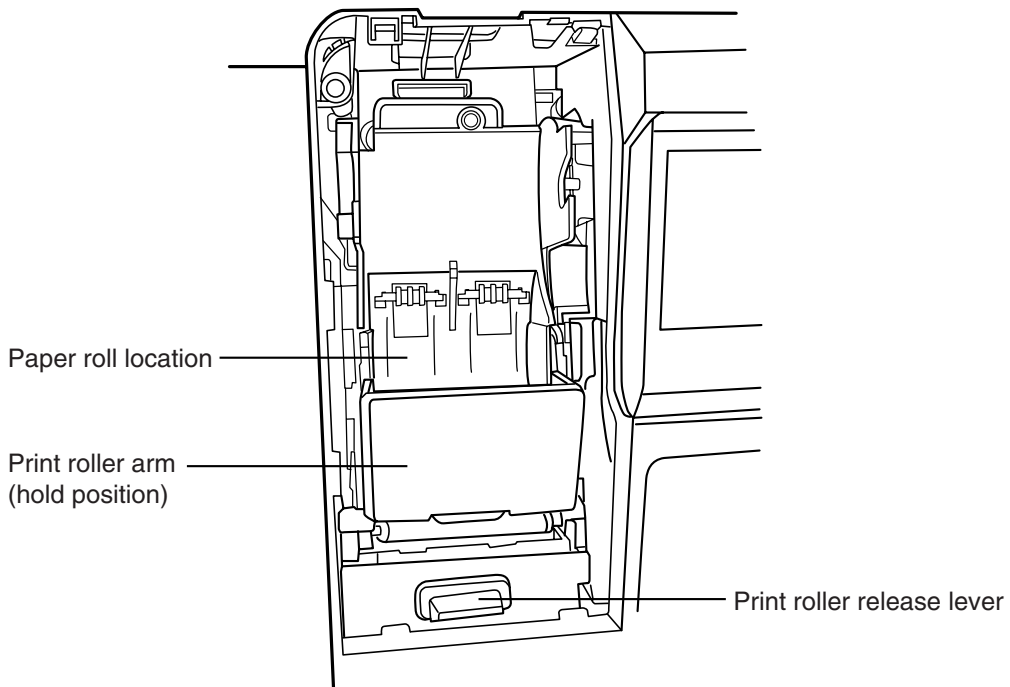
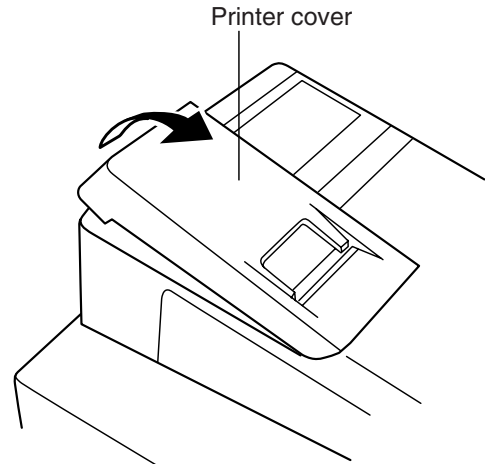
Printer

The printer is a receipt (one station) type thermal printer, and therefore it does not require any type of ink ribbon or cartridge. The average life of the printer is approximately 5 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.

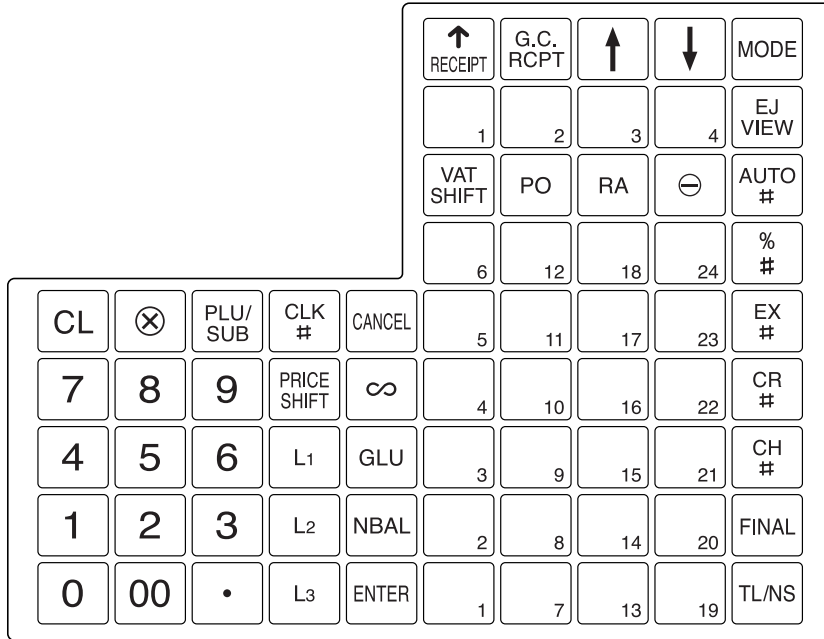


NOTE

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 print head.

Keyboard (ER-A280F)

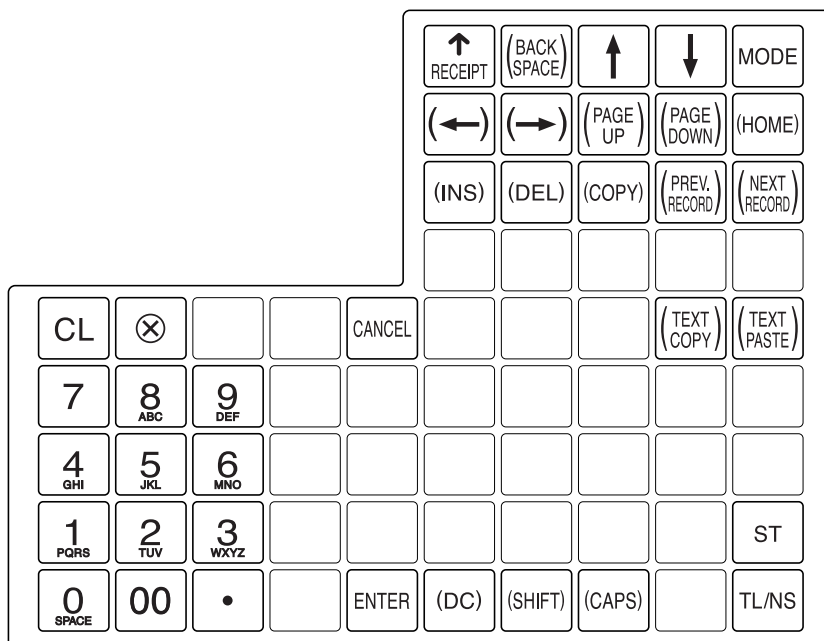
■ Standard keyboard layout








































NOTE


- All the keys but the receipt paper feed key can be re-positioned. If you want to change the layout, contact your authorized SHARP dealer.

■ Programming keyboard layout



■ Function key list

	Receipt paper feed key		Foreign currency exchange menu key
 ~ 	} Numeric keys		Automatic sequencing menu key
			Discount key
	Decimal point key		Received-on-account key
	Clear key		Paid-out key
	Multiplication key		Total (cash total) key, or No-sale key
 ~ 	Department key*		Clerk code entry key
	Price lookup/subdepartment		Electronic journal view key
	Cancel key	 ~ 	PLU level shift 1 through 3 keys
	MODE key		Price level shift key
 	Cursor (up/down arrow) keys		Value added tax shift key (VAT shift item or VAT shift transaction)
	Enter key		Guest lookup key
	Void key		New balance key
	Percent menu key		Tentative finalization key
	Check menu key		Guest check receipt key
	Credit menu key	 ~ 	Direct price lookup keys

* In this manual each department key is represented like  in order to distinguish it from direct price lookup keys.

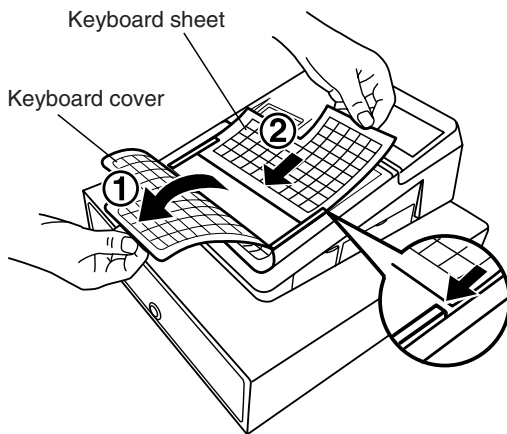
■ Optional keys

Key name	Function
000	000 key
MISC. FUNC	Miscellaneous function menu key
(-) #	(-) menu key
DEPT#	Department number entry key
INQ	PLU/EAN price inquiring key
PRICE CHANGE	Price change key
AMOUNT	Amount entry key
+	Repeat entry key
REFUND	Refund key
%1	%1 key
%2	%2 key
%3	%3 key
%4	%4 key
(-)2	(-)2 key
(-)3	(-)3 key
(-)4	(-)4 key
RA2	Received-on-account 2 key
PO2	Paid-out 2 key
NO SALE	No-sale key
#	Non-add code entry key
G.C. COPY	Guest check copy key
SBTL	Subtotal key
RCPT	Receipt print key
VAT	Value-added tax key
AUTO	Automatic sequencing 1 key
AUTO2	Automatic sequencing 2 key
AUTO3	Automatic sequencing 3 key

Key name	Function
AUTO4	Automatic sequencing 4 key
AUTO5	Automatic sequencing 5 key
AUTO6	Automatic sequencing 6 key
AUTO7	Automatic sequencing 7 key
AUTO8	Automatic sequencing 8 key
AUTO9	Automatic sequencing 9 key
AUTO10	Automatic sequencing 10 key
CA2	Cash total 2 key
CHECK	Check 1 key
CHECK2	Check 2 key
CHECK3	Check 3 key
CHECK4	Check 4 key
CR1	Credit 1 key
CR2	Credit 2 key
CR3	Credit 3 key
CR4	Credit 4 key
EX 1	Foreign currency exchange 1 key
EX 2	Foreign currency exchange 2 key
EX 3	Foreign currency exchange 3 key
EX 4	Foreign currency exchange 4 key
DIFFER ST	Difference subtotal key
CSR#	Cashier code entry key
MGR#	Manager code entry key
DEPO (+)	Deposit entry key
DEPO (-)	Deposit refund entry key
RCPT. SW	Receipt print switching key
BANK CONSOLE	Bank console key

■ Inserting the keyboard sheet

Insert the keyboard sheet between the keyboard cover and the cabinet as illustrated below.



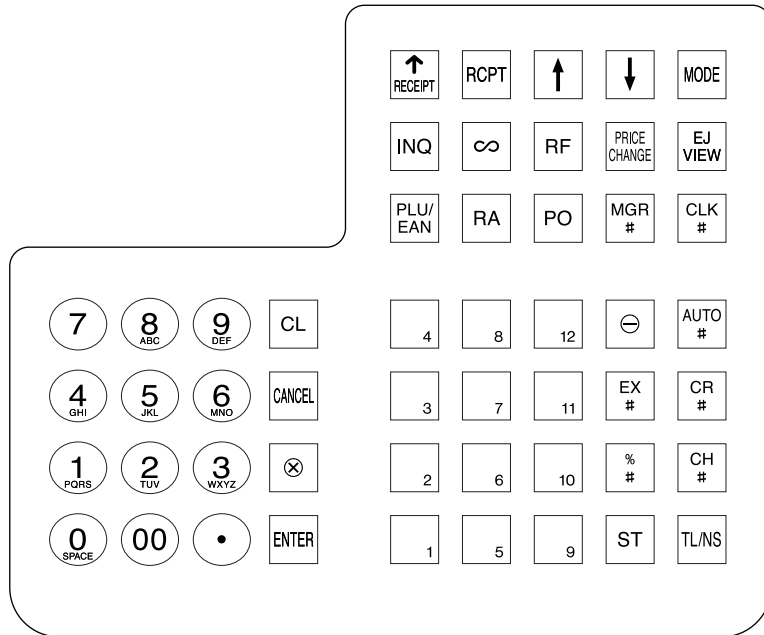
1. Turn over the keyboard cover.
2. Insert the keyboard sheet into the slit.
3. Close the keyboard cover.

NOTE

- Do not spread the keyboard cover too far as it might tear the tabs.
- Replace the keyboard sheet with a new one if by chance it gets wet. Use of a wet keyboard sheet may cause problems.
- Be sure to use only SHARP-supplied keyboard sheets. Thick or hard sheets make key operations difficult.
- Smooth the keyboard sheet evenly under the keyboard cover, without any folds or wrinkles, to ensure easier operation.
- If you require a new keyboard sheet, please contact your dealer.
- The keyboard cover will eventually wear out. If your keyboard cover is dirty or broken, replace the cover with a new one. For details, contact your authorized SHARP dealer.

Keyboard (ER-A280N)

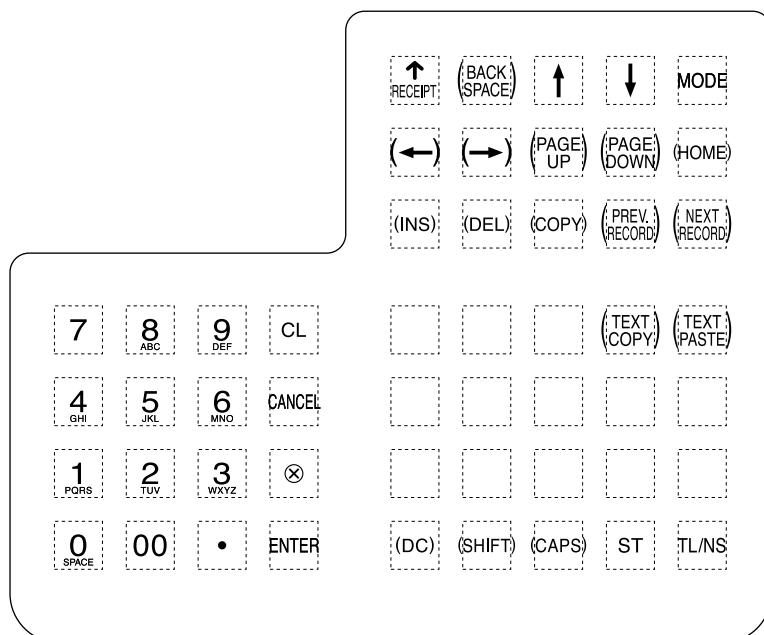
■ Standard keyboard layout




































NOTE


- All the keys but the receipt paper feed key can be re-positioned. If you want to change the layout, contact your authorized SHARP dealer.

■ Programming keyboard layout



■ Function key list

	Receipt paper feed key		Foreign currency exchange menu key
 ~ 	} Numeric keys		Automatic sequencing menu key
			Discount key
	Decimal point key		Received-on-account key
	Clear key		Paid-out key
	Multiplication key		Total (cash total) key, or No-sale key
 ~ 	Department key*		Clerk code entry key
	PLU/EAN key		Electronic journal view key
	Cancel key		Price change key
	MODE key		PLU/EAN price inquiring key
 	Cursor (up/down arrow) keys		Refund key
	Enter key		Subtotal key
	Void key		Receipt print key
	Percent menu key		Manager code entry key
	Check menu key		
	Credit menu key		

* In this manual each department key is represented like  in order to distinguish it from direct price lookup keys.

■ Optional keys

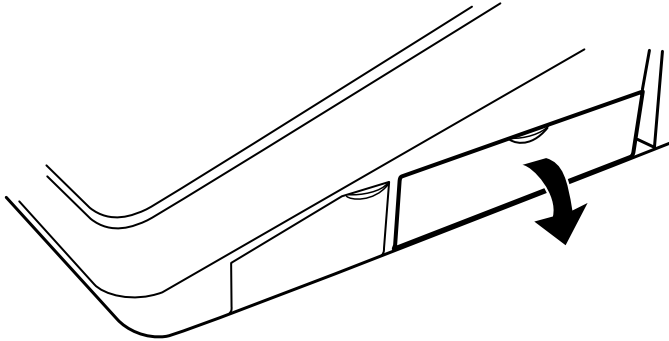
Key name	Function
000	000 key
MISC. FUNC	Miscellaneous function menu key
(-) #	(-) menu key
L1	PLU level shift 1 key
L2	PLU level shift 2 key
L3	PLU level shift 3 key
PRICE SHIFT	Price level shift key
DEPT#	Department number entry key
AMOUNT	Amount entry key
+	Repeat entry key
%1	%1 key
%2	%2 key
%3	%3 key
%4	%4 key
(-)2	(-)2 key
(-)3	(-)3 key
(-)4	(-)4 key
RA2	Received-on-account 2 key
PO2	Paid-out 2 key
NO SALE	No-sale key
#	Non-add code entry key
G.C. COPY	Guest check copy key
VAT	Value-added tax key
AUTO	Automatic sequencing 1 key
AUTO2	Automatic sequencing 2 key
AUTO3	Automatic sequencing 3 key
AUTO4	Automatic sequencing 4 key
AUTO5	Automatic sequencing 5 key
AUTO6	Automatic sequencing 6 key

Key name	Function
AUTO7	Automatic sequencing 7 key
AUTO8	Automatic sequencing 8 key
AUTO9	Automatic sequencing 9 key
AUTO10	Automatic sequencing 10 key
CA2	Cash total 2 key
CHECK	Check 1 key
CHECK2	Check 2 key
CHECK3	Check 3 key
CHECK4	Check 4 key
CR1	Credit 1 key
CR2	Credit 2 key
CR3	Credit 3 key
CR4	Credit 4 key
EX 1	Foreign currency exchange 1 key
EX 2	Foreign currency exchange 2 key
EX 3	Foreign currency exchange 3 key
EX 4	Foreign currency exchange 4 key
VAT SF ITEM	Value-added tax shift by item key
VAT SF TRANS	Value-added tax shift by transaction key
DIFFER ST	Difference subtotal key
CSR#	Cashier code entry key
GLU	Guest lookup key
NBAL	New balance key
FINAL	Tentative finalization key
DEPO (+)	Deposit entry key
DEPO (-)	Deposit refund entry key
G.C. RCPT	Guest check receipt key
RCPT. SW	Receipt print switching key
BANK CONSOLE	Bank console key

RS232 Connector/SD Card Slot

■ Opening the RS232 connector cover

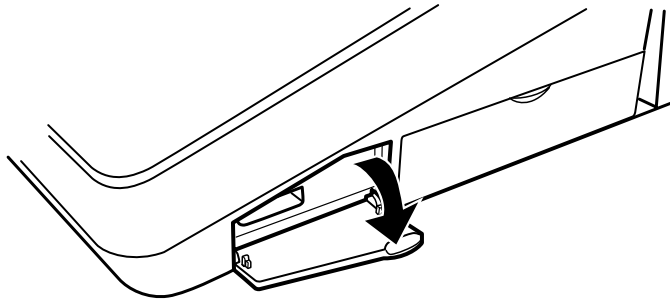
To open the cover, move the RS232 connector cover in the direction of an arrow.



■ Opening the SD card slot cover

To open the cover, move the SD card slot cover in the direction of an arrow.

Refer to the “SD CARD Mode” section.



Displays

■ Operator display

• Screen example 1 (REG mode)

```

125.200x1.30      162.76
PLU00001
***TOTAL          162.76
12
REG              L1P1              0001
  
```

Mode name

Status
information

Clerk/cashier code

Sales information area:

When a transaction information occupies more than 3 lines, scroll key(s) appears to indicate you can scroll to the direction. Sales information you have just entered such as items and prices will appear between 1st line and 3rd line.

Total is always appear at 4th line.

Numeric entry area

Status area:

PLU level shift indicator (L1-L3)

: Shows the PLU level currently selected.

Price level shift indicator (P1-P2)

: Shows the PLU/EAN price level currently selected.

Receipt ON/OFF status indicator (R)

: Appears when the receipt ON-OFF function signs OFF.

VAT shift status indicator (V)

: Appears when the VAT status is shifted.

Stock alarm indicator (!)

: Appears when the stock of the PLU which you entered is zero, negative or reaches the minimum stock.

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 in the lower right corner of the screen when the cash in drawer exceeds a programmed sentinel amount. The sentinel check is performed for the total cash in drawer.

VMP file full indicator (1,2, or 3)

: When a VMP file used memory is 90% or more, its file number is indicated.

T-Log near full indicator (■)

: Appears (■) when the used memory is 80%.

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

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

• Screen example 2 (PGM mode)

```

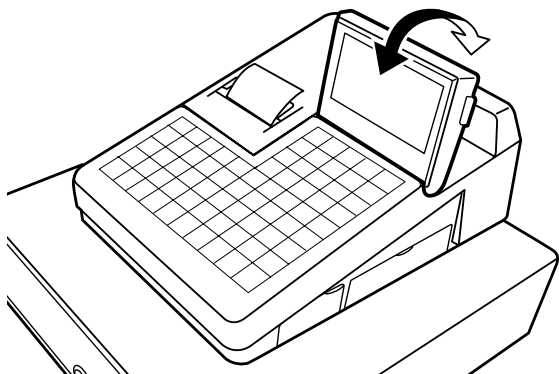
  00001
DEPT .CODE
TEXT          PLU00001
SIGN          +
PRICE1       0 .00
PRICE2       0 .00
BASE QTY
MENU TYPE    NORMAL
SET#/LINK#   00
PGM2         0001
  
```

Programming area: Programmable items are listed.

Status area:

Mode name

Clerk/cashier code



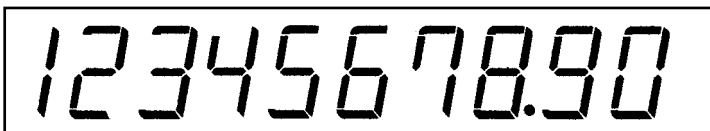
The display can be tilted back and forth to the best operational viewing angle.

NOTE

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

The backlight in the display is a consumable part. When the LCD display may no longer be adjusted and becomes darker, you should replace the LCD unit. Consult your authorized SHARP dealer for further details.

■ 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 the LCD backlight off when any server 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 machine will enter the screen save mode two minutes later by default.

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

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 CANCEL key.
OP XZ mode	This mode allows servers 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.
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).
PGM1 mode	This mode allows you to program those items which need to be changed often such as unit prices and discount percentages.
PGM2 mode	This mode allows you to program those items which can be programmed in the PGM1 mode and do not require frequent changes such as date, time, and terminal functions.
AUTO KEY mode	This mode allows you to program AUTO menu key and automatic sequencing keys.
SD CARD mode	This mode allows you to save and load the data of your register to and from an SD card.

Mode Selection

Procedure

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

```
— SELECT MODE —
1 OPX2 MODE
2 OFF MODE
3 X1/Z1 MODE
4 X2/Z2 MODE
5 PGM1 MODE
6 PGM2 MODE
7 AUTO KEY MODE
MODE 0001
```

Use one of the following ways:

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

NOTE

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

3


Prior to Making Entries

Preparations for Entries

■ Receipt paper roll

If the receipt paper roll is not set in the machine or it is getting low, install a new one according to section "Installing and Removing the Paper Roll" under "Operator Maintenance."

■ Receipt ON/OFF function

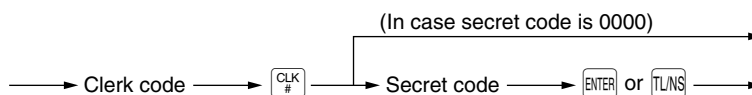
You can disable receipt printing in the REG mode to save paper using the receipt function. To disable receipt printing, press the  key to select "OFF". When the function is in the OFF status, the receipt off indicator "R" is highlighted.

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:

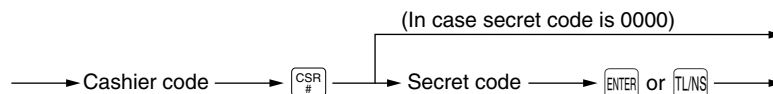


NOTE

Your register can provide the clerk + cashier system instead of current system (clerk only system). If you want to change the system, please consult your authorized SHARP dealer.

Cashier assignment (Clerk + cashier system)

To sign on:



To sign off:




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.

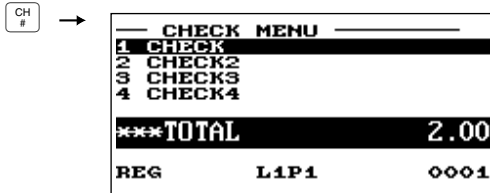
- When you exceed a 32-digit number (entry limit overflow):
Cancel the entry and reenter a correct number.
- When you make an error in key operation:
Clear the error and try the entry again.
- When you make an entry beyond a programmed amount entry limit:
Check to see if the entered amount is correct. 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.

Item Selection from the Menu

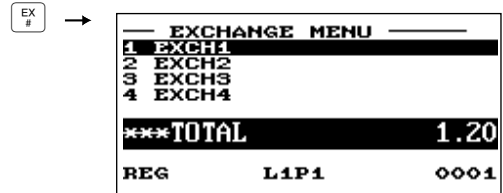
Your register allows you to select functions from a menu. For example, if you want to enter an item for check 1 sale, select the option "CHECK1" from the "CHECK" menu instead of pressing the  key.

Each menu can be opened as follows:

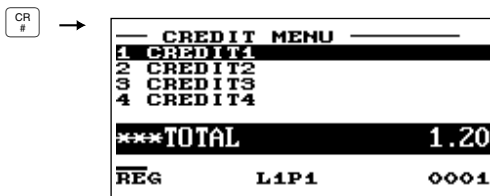
• Check menu



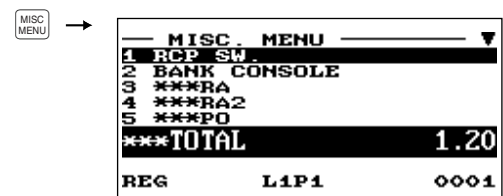
• Exchange menu



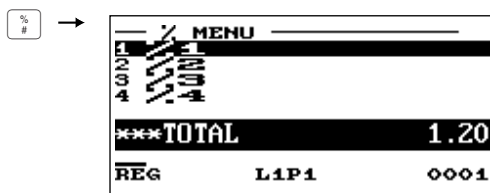
• Credit menu



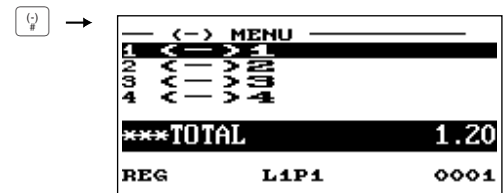
• Miscellaneous menu



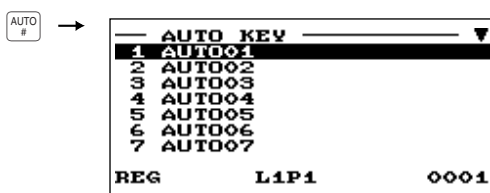
• % menu



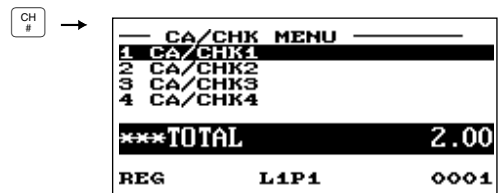
• (-) menu




• Auto menu







• Cashing a check menu



Procedure

Press the corresponding menu key (ex. ). The menu list is displayed.

Use one of the following ways:

- Move the cursor to the desired option by using the  or  key, and press the  key.
- Enter the desired option number by using a numeric key and press the  key.

Starting Cash Memory Entry

If you enter the amount of currency for the starting amount in the drawer before entry operations, you can separate that amount from the sales amount when reports are generated. Your register can be programmed to enforce the entry of starting cash into memory.

Procedure

Select the OPXZ mode to display the SCM job.

Use one of the following ways:

- Move the cursor to the desired option (SCM(+)) or SCM(-)) by using the or key, and press the key.
- Enter the desired option number (SCM(+)) or SCM(-)) by using a numeric key and press the key.



```
— SCM<+> —————  
AMOUNT          ◊.◊◊  
  
OPX2                ◊◊◊1
```

Enter the amount for each domestic and foreign currency by using the key.

```
CLK#0001  CLERK0001  
          *0.00  
SCM (+)   *100.00  
SCM TTL   *100.00
```

To terminate the SCM job, press the key.

4 Entries

For the register ER-A280N, please use the  key instead of the  key.

Item Entries

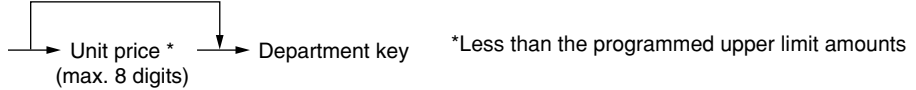
Single item entries

Department entries (direct department entries)

Enter a unit price and press a department key. If you use a programmed unit price, press a department key only.

Procedure

When using a programmed unit price

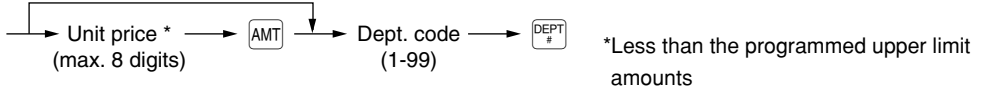


NOTE When those departments for which the unit price has been programmed as zero (0) are entered, only the sales quantity is added.

Department entries (indirect department entries)







Procedure

When using a programmed unit price



Example


Key operation

1200 

 3 
 680  4 


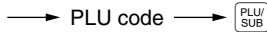
Print

1x 12.00	*12.00
DPT. 06	
1x 7.10	*7.10
DPT. 05	
1x 5.20	*5.20
DPT. 03	
1x 6.80	*6.80
DPT. 04	
CASH	*31.10

PLU entries (indirect PLU entries)

Enter a PLU code and press the  key.

Procedure

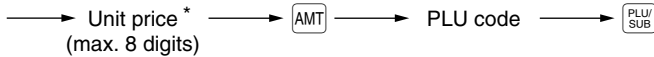


NOTE

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

Subdepartment (open PLU) entries

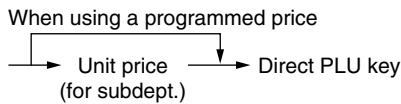
Procedure



*Less than the programmed upper limit amounts

PLU entries (direct PLU entries)






Procedure



*Less than the programmed upper limit amounts

Example

Key operation

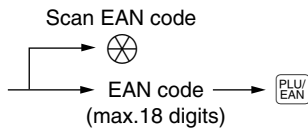
1200  16 





Print

1x 5.10	*5.10
PLU00002	
1x 12.00	*12.00
PLU00016	
1x 2.10	*2.10
PLU00008	
CASH	*19.20

EAN entries



Procedure



* After an EAN entry, you may be requested to enter a unit price with the display "UNDEFINED CODE" and beep sound. In this case, enter the unit price and press the  key.

Example

Key operation

5012345678900 


Print

1x 3.10	*3.10
5012345678900#	
CASH	*3.10

Repeat entries

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

You can use the **+** key to repeat entry instead of department, **DEPT #**, direct PLU or **PLU/SUB** key.

Also, you can repeat item entry from a menu screen by pressing the **+** key.

Example

	Key operation	Print
Repeated department entry (direct)	200 2	3x 2.00 *6.00
	2	DPT. 02
	2	2x 6.80 *13.60
Repeated department entry (indirect)	680 AMT 4 DEPT #	3x 2.10 *6.30
	DEPT #	PLU00010
	PLU/SUB	2x 5.60 *11.20
Repeated PLU entry (indirect)	10 PLU/SUB	PLU00005
	PLU/SUB	2x 5.00 *10.00
	PLU/SUB	PLU00060
Repeated PLU entry (direct)	5	2x 3.10 *6.20
	5	5012345678900#
	AMT	3x 6.00 *18.00
Repeated subdepartment entry	500 AMT	DPT. 02
	60 PLU/SUB	CASH *71.30
	PLU/SUB	
Repeated EAN entry	5012345678900 PLU/SUB	
	PLU/SUB	
	PLU/SUB	
Repeated department entry (direct) using the repeat entry key	600 2	
	+	
	+	
	+	
	TL/NS	

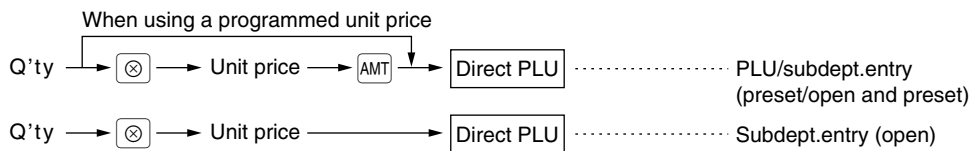
Multiplication entries

Use this feature when you need to enter two or more the same items.

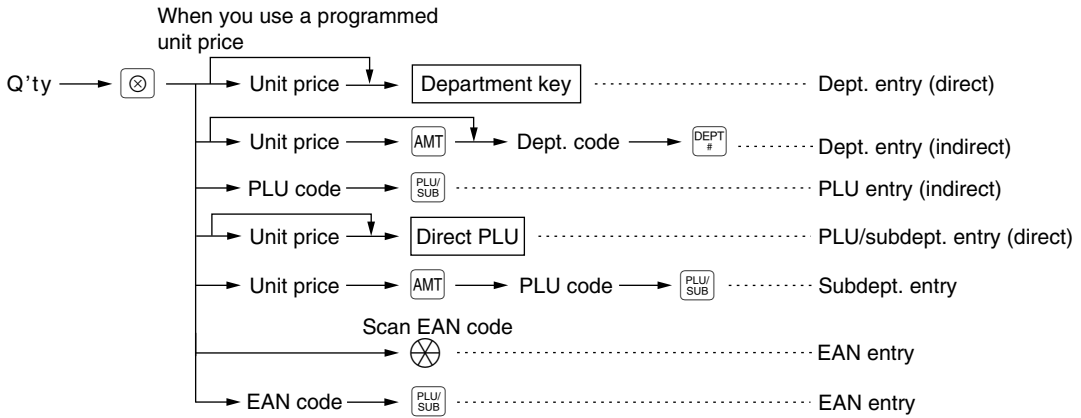
This feature helps you when you sell a large quantity of items or need to enter quantities that contain decimals.

Procedure

FF method (for speedy entries in the fast food restaurants)



Normal method



- After an EAN entry, you may be requested to enter a unit price with the display “UNDEFINED CODE” and beep sound. In this case, enter the unit price and press the **ENTER** key.
- 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 seven digits

Example

Key operation

```

7 . 5 ⊗
165 2
2 ⊗
250 AMT
5 DEPT #
15 ⊗
8 PLU/SUB
8 . 25 ⊗
5
3 ⊗
100 AMT
60 PLU/SUB
5 ⊗
5012345678900 PLU/SUB
TL/NS
  
```

Print

```

7.500x 1.65      *12.38
DPT. 02
2x 2.50          *5.00
DPT. 05
15x 1.20        *18.00
PLU00008
8.250x 5.60     *46.20
PLU00005
3x 1.00         *3.00
PLU00060
5x 3.10         *15.50
5012345678900#

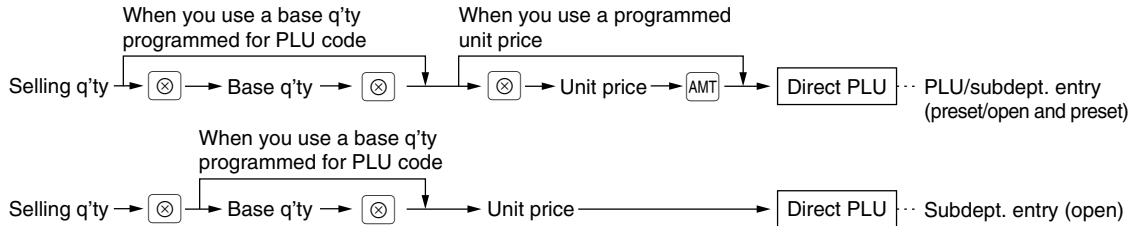
CASH           *100.08
  
```


■ Split-pricing entries

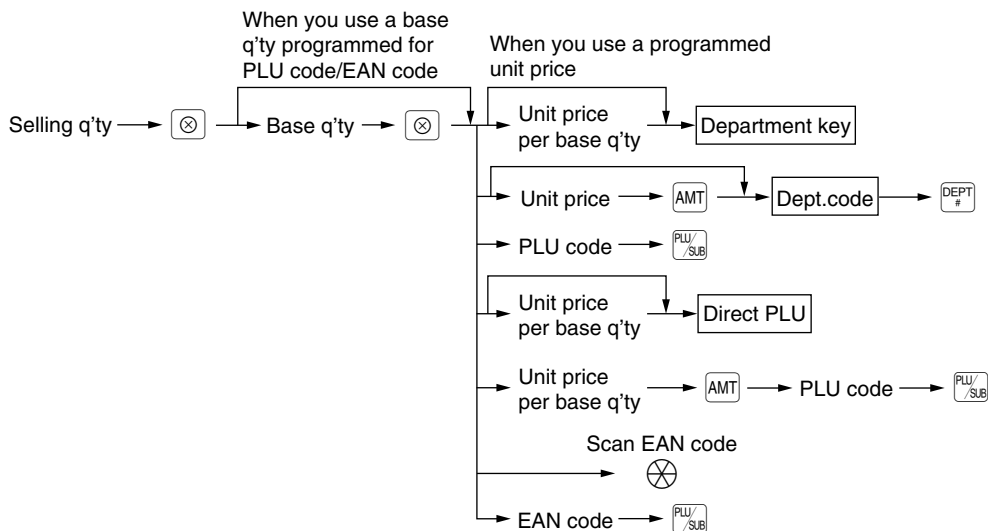
You will use this function when your customer wants to purchase more or less than the base quantity of a loose item.

Procedure

FF method



Normal method



- After an EAN entry, you may be requested to enter a unit price with the display "UNDEFINED CODE" and beep sound. In this case, enter the unit price and press the **ENTER** key.
- Selling quantity: Up to four-digit integer + three-digit decimal
- Base quantity: Up to two digits (integer)

NOTE

For actual use of this function, consult your authorized SHARP dealer.

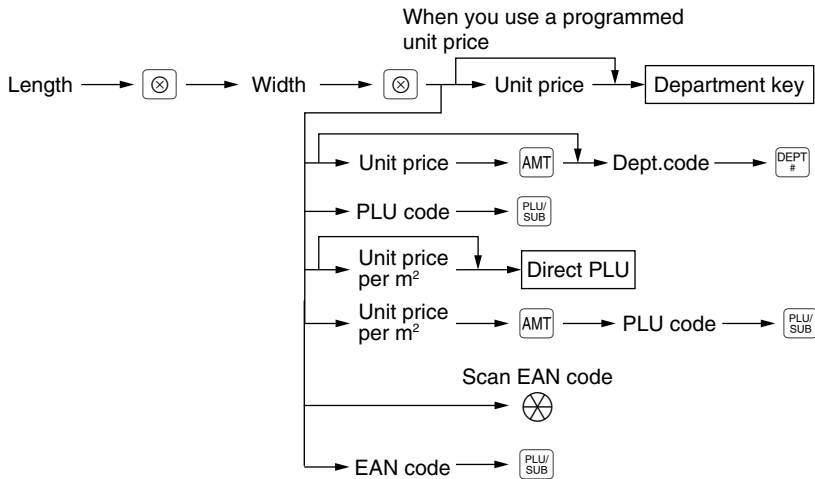
Example

Key operation	Print
7 <input type="text" value="⊗"/> 10 <input type="text" value="⊗"/> 600 <input type="text" value="2"/>	7x 10/ 6.00 *4.20 DPT. 02
8 <input type="text" value="⊗"/> 5 <input type="text" value="⊗"/> 35 <input type="text" value="PLU/SUB"/>	8x 5/ 6.50 *10.40 PLU00035
5 <input type="text" value="⊗"/> 6 <input type="text" value="⊗"/> 5045678912304 <input type="text" value="PLU/SUB"/> <input type="text" value="TL/NS"/>	5x 6/ 7.20 *6.00 5045678912304# Item C
	CASH *20.60

■ Successive multiplication entries

This function is practical for example when you enter a sale of items sold by area (square meter).

Procedure



- After an EAN entry, you may be requested to enter a unit price with the display “UNDEFINED CODE” and beep sound. In this case, enter the unit price and press the **ENTER** key.
- Length or width: up to seven digits (4-digit integer + 3-digit decimal)
- Unit price: less than a programmed upper limit
- Length x Width x Unit price: up to eight digits

Example

Key operation	Print
3 <input type="button" value="⊗"/> 4 <input type="button" value="⊗"/>	
400 <input type="button" value="2"/>	
1 <input type="button" value="."/> 5 <input type="button" value="⊗"/>	
2 <input type="button" value="."/> 5 <input type="button" value="⊗"/>	
8 <input type="button" value="PLU/SUB"/>	
1 <input type="button" value="."/> 75 <input type="button" value="⊗"/>	
1 <input type="button" value="."/> 75 <input type="button" value="⊗"/>	
600 <input type="button" value="AMT"/>	
3 <input type="button" value="PLU/SUB"/>	
4 <input type="button" value="⊗"/> 5 <input type="button" value="⊗"/>	
5045678912304 <input type="button" value="PLU/SUB"/>	
<input type="button" value="TL/NS"/>	

3x 4x 4.00	*48.00
DPT. 02	
1.500x 2.500x 6.00	*22.50
PLU00008	
1.750x 1.750x 6.00	*18.38
PLU00003	
4x 5x 7.20	*144.00
5045678912304#	
Item C	
CASH	*232.88

Single item cash sale (SICS)/single item finalize (SIF) entries

The operation is the same as that for normal department/PLU/EAN entries.

SICS entries

- 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, subdepartments or EANs.
- The transaction is finalized and the drawer opens as soon as you press the department key, key, key or the direct PLU key.

Example

Key operation	Print
250	
For finishing → <input type="button" value="3"/> the transaction	

1x 2.50	*2.50
DPT. 03	
CASH	*2.50

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

Special Entries for PLU/EAN

■ Promotion function

You have a choice of either global or individual type for promotion entry.

You also need to select a promotion way from the following:

- Amount discount : discounts the programmed amount.
- Percent discount : discounts the amount at the programmed percent rate.
- Give free item : offers the programmed objected item for free.

NOTE For EAN item entry, you cannot enter NON-PLU type EAN code and press code.

Global type

This function is convenient for matching several PLU/EAN items and selling them in a lump (e.g. value meal, etc.). Operation is the same as for normal PLU/EAN. The promotion table consists of the text for the table, a maximum of 10 objected items (selected from PLU/EAN), trip level (the number of entries to be satisfied), promotion way and promotion detail. The promotion detail depends on the promotion way. In the example below, amount discount is used as the promotion way.

The programmed promotion entry will be made under the following condition:

- The total quantity of the objected items meet the trip level programmed in the promotion type.

Objected items of table no. 1: Item-A (*2.30), Item-B (*3.10), Item-C (*2.50)
 Trip level: 3
 Promotion way: Amount discount
 Promotion detail: Discount amount (1.00)

<Sale 1>		<Sale 2>	
Item-A	*2.30	Item-C	*2.50
Item-B	*3.10	Item-C	*2.50
Item-C	*2.50	Item-C	*2.50
Subtotal	*7.90	Subtotal	*7.50
Discount	-1.00	Discount	-1.00
Total	*6.90	Total	*6.50

Example

In the case of <Sale 1> above

Key operation

Treated as *2.30 item →
 Treated as *3.10 item →
 Treated as *2.50 item →

Print

1x 2.30		*2.30	
PLU00040			
1x 3.10		*3.10	
PLU00041			
1x 2.50		*2.50	
PLU00042			
Promo A	1Q	-1.00	Promotion discount
CASH		*6.90	

Individual type

This function is convenient for matching several PLU/EAN items and selling them in a lump (e.g. value meal etc.). Operation is the same as for normal PLU/EAN. The promotion table consists of the text for the table, a maximum of 10 objected items (selected from PLU/EAN), trip levels (the number of entries to be satisfied) for each item, promotion way and promotion detail. The promotion detail depends on the promotion way. In the example below, percent discount is used as the promotion way.

The programmed promotion entry will be made under the following condition:

- The quantities of each of the objected items meet the corresponding trip levels programmed in the promotion table.

Objected items of table no. 2: Item-A (*3.00), Item-B (*2.50), Item-C (*2.10)

Trip levels for each item: Item-A (1), Item-B (1), Item-C (2)

Promotion way: Percent discount

Promotion detail: Percent rate (40.00%)

<Sale 1>		<Sale 2>	
Item-A	*3.00	Item-A	*3.00
Item-B	*2.50	Item-A	*3.00
Item-C	*2.10	Item-B	*2.50
Item-C	*2.10	Item-C	*2.10
<hr/>		<hr/>	
Subtotal	*9.70	Subtotal	*10.60
Discount	-3.88	Discount	-0.00
<hr/>		<hr/>	
Total	*5.82	Total	*10.60

Example

In the case of <Sale 1> above

Key operation

Treated as *3.00 item →
 Treated as *2.50 item →
 Treated as *2.10 item →
 Treated as *2.10 item →

Print

1x 3.00		*3.00
PLU00040		
1x 2.50		*2.50
PLU00041		
2x 2.10		*4.20
PLU00042		
Promo B	1Q	-3.88
CASH		*5.82

Promotion discount

Free product item

When the promotion way is programmed as "FREE ITEM", the programmed free item will be entered automatically.

Example

Objected items of table no. 3: Item-A (*3.00), Item-B (*2.50), Item-C (*2.10)

Trip levels for each item: Item-A (1), Item-B (1), Item-C (2)

Promotion way: Free item

Free item: Item-D (*1.20)

<Sale 1>	
Item-A	*3.00
Item-B	*2.50
Item-C	*2.10
Item-C	*2.10
<hr/>	
Item-D (free item product)	*1.20
Discount	-1.20
<hr/>	
Total	*9.70

In the case of <Sale 1> above

Key operation

Treated as *3.00 item →
 Treated as *2.50 item →
 Treated as *2.10 item →
 Treated as *2.10 item →

Print

1x 3.00		*3.00	
PLU00040			
1x 2.50		*2.50	
PLU00041			
2x 2.10		*4.20	
PLU00042			
1x 1.20		*1.20	
PLU00005			
Promo C	1Q	-1.20	Free item
CASH		*9.70	

NOTE

When the payment operation is performed, the confirmation window is displayed for the free product item.
 To enter the free item, select "1. YES". To cancel the free item entry, select "2. NO".

PLU/EAN link entries

In case that you register a PLU or EAN that has any PLU linked with the PLU or EAN, the linked PLU(s) are automatically registered together with the leading link PLU or EAN when it is registered. The print format on the receipt depends on the programming (PRINT SELECT in OPTIONAL menu in PGM2 mode) as described below.

Printing detailed information

The description texts and amounts of the leading link PLU/EAN and the linked PLUs are printed individually.

Example

(In case of link PLU)

Key operation

Print

1x 5.10		*5.10	
PLU00021			
1x 1.10		*1.10	Linked PLUs
PLU00022			
1x 1.50		*1.50	
PLU00023			
1x 2.70		*2.70	
PLU00024			
CASH		*10.40	

Printing leading link PLU/EAN and total sales amount

The description text of the leading link PLU/EAN and the total sales amount of the leading link PLU/EAN and the linked PLUs are printed.

Example

In case of link PLU

Key operation

Print

1x 10.40		*10.40	
PLU00021			
CASH		*10.40	Total amount

NOTE

If a discount entry is made for a link PLU/EAN entry, the discount amount is calculated based on the total sales amount. The discount itself is given to the leading link PLU/EAN.

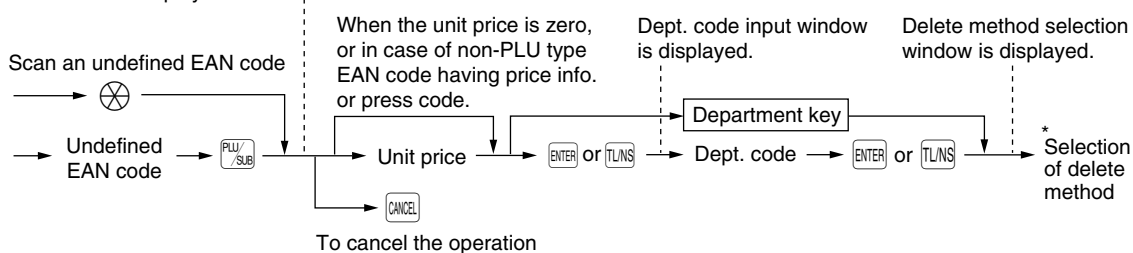
■ EAN learning function

When you enter or scan an undefined EAN code, you are required to enter its unit price and the associated department. The code, associated department and unit price entered are stored in the EAN file and used for future EAN sales entries.

- NOTE**
- When there is no capacity remained in the file, the data is not stored in the file.
 - For the text for the EAN code, the text of its associated department is applied.
 - You can use the EAN learning function in the training mode. This may be convenient to practice the scanning system.

Procedure

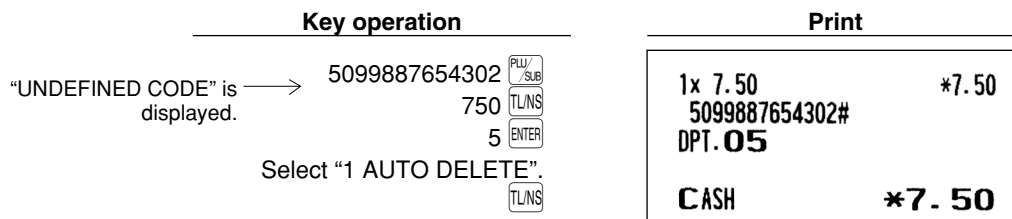
“UNDEFINED CODE” is displayed with beep sounds and price input window is displayed.



* Select “1 AUTO DELETE” when you want to exempt the EAN code entered from the non-accessed EAN delete function (deletion by selecting DELETE option from EAN DELETE menu in X1/Z1 mode).

- NOTE** For the repeat entry, use the **+** key.

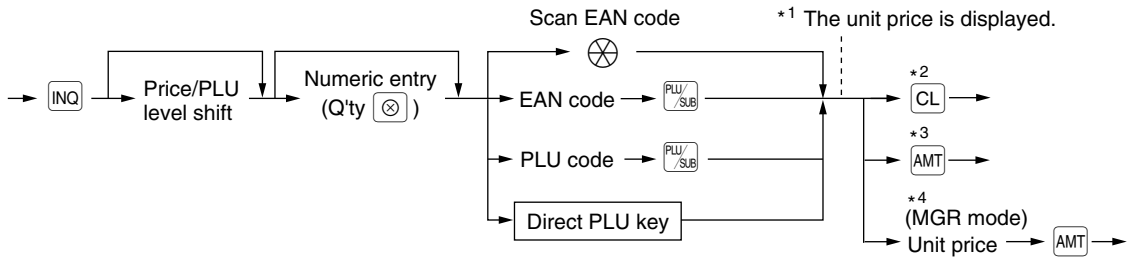
Example



■ PLU/EAN information inquiry (view) function

This function displays the unit price of a PLU/EAN item (view mode).

Procedure



*1: The unit price is displayed when the PLU/EAN code is entered.

*2: Press the **CL** keys to cancel the view mode.

*3: Press the **AMT** key to register the displayed PLU/EAN item.

*4: You can change the unit price temporarily in the MGR mode. The unit price programmed in the PGM mode is not changed. You need to make a manager code entry to enter the MGR mode before the transaction.

NOTE For the repeat entry, use the **+** key.

Example

Key operation	Display
<div style="border: 1px solid black; padding: 2px; display: inline-block;">INQ</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">21</div>	<pre> 1x5.10 5.10 PLU00021 ***TOTAL 0.00 PRICE INQ. REG L1P1 0001 </pre>

■ EAN price change function

NOTE To use this function, consult your dealer.

You can use this function when you need to change the unit price or associated department of an EAN item in REG/MGR mode.

There are two methods for change:

1. Price change mode

You can change the preset price and/or the associated department of an EAN item without entering PGM mode.

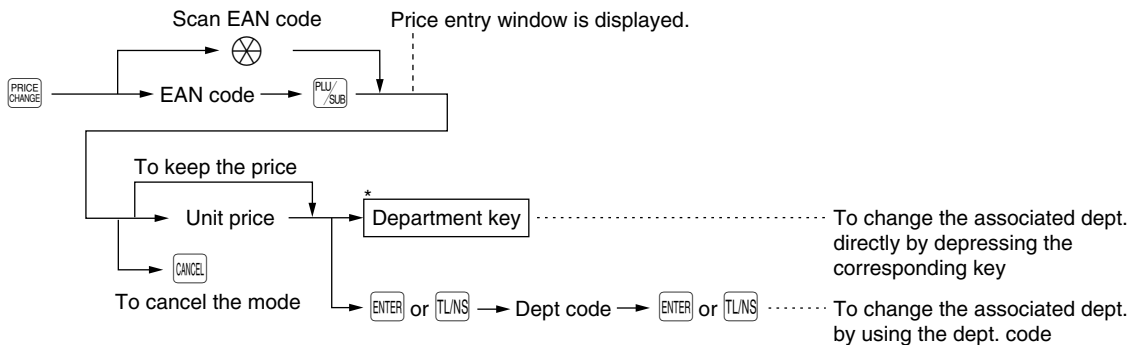
2. Changing price during a transaction

When you have found a wrong EAN price and/or associated department upon transaction, you can correct them at the time of transaction. With the entry of new price and/or associated department, the preset price and/or associated department is automatically changed to the new price and/or associated department.

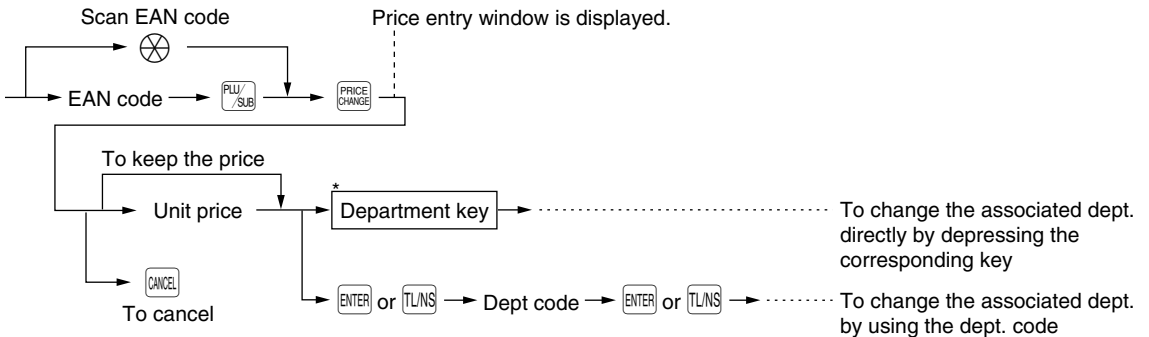
NOTE For the Non-PLU type EAN codes having price info. and press codes, the prices in the codes have the priority over the preset prices. So, for these codes, a changed price is valid only when price change is executed.

Procedure

Price change mode







Changing price during a transaction



*: Associated department can be changed only when the totalizer of the item is "0".






Example**Price change mode****Key operation**

5087654321106 
 600 



Print

PR. CHNG	
DEPT01	
1x 6.00	*6.00
5087654321106#	
Item M	




Example**Changing a price during a transaction****Key operation**

5087654321106 

 600 



Print

1x 6.00	*6.00
5087654321106#	
Item M	
CASH	*6.00

NOTE

- When an undefined code is entered in the price change mode, the register goes to an error status.
- When you press the  key during a transaction, the EAN entry is voided of the 1st depression of the  key, then you are allowed to enter a correct price and/or associated department.
- When an associated department is changed, the item label for the department will be also changed automatically to the item label of new associated department.
- For the repeat entry, use the  key.

■ Set PLU/EAN entries

Operation is the same as that for normal PLU/EAN entries.

When a set1 PLU/EAN is entered, the labels of those PLUs tied to the set PLU/EAN are printed automatically.

Example**Key operation**




Print

1x 2.20	*2.20
PLU00012	
PLU00015	
PLU00016	
CASH	*2.20

■ PLU level shift (for direct PLUs)

This shift can double or triple the number of direct PLUs on your register without adding additional direct PLU keys. You can use direct PLUs in three levels by the PLU level shift keys **L1** thru **L3**.

Level key shifts the PLU level from the other two to the required level. (The normal level is the level 1.)

You must program your machine in the PGM mode to select one of the two PLU level shift modes — automatic return mode* and lock shift mode** — and decide whether to allow PLU level shift in both the REG and MGR modes or in the MGR mode alone.

* The automatic return mode automatically shifts the PLU level back to level 1 after pressing a direct PLU key or finalizing each transaction.

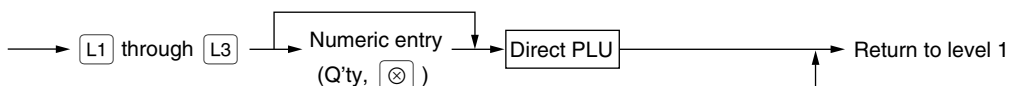
** The lock shift mode holds the current PLU level until depression of a PLU level shift key.

Automatic return mode (for PLU levels)

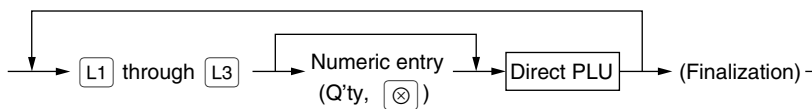
If your register has been programmed for PLU level in the automatic return mode, press a desired PLU level shift key before a numeric entry.

Procedure

(Returning every item entry)



(Returning every transaction)

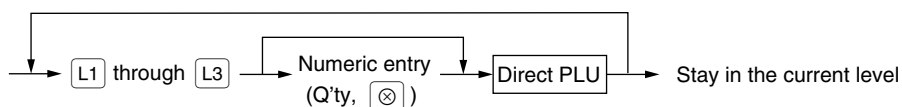


NOTE When you use the FF method, you need not press the **⊗** key for multiplication entries.

Lock shift mode (for PLU levels)

If your register has been programmed for PLU level in the lock shift mode, press a desired PLU level shift key before a numeric entry.

Procedure

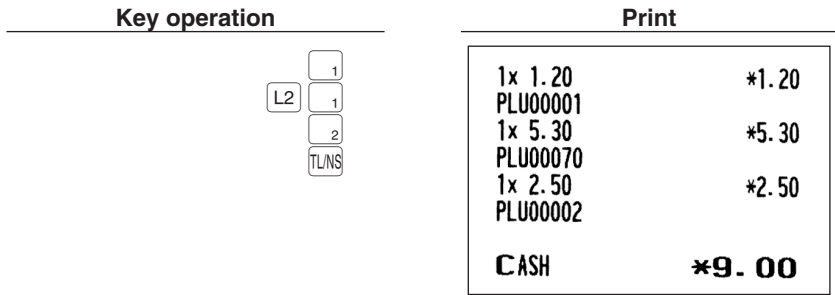


NOTE When you use the FF method, you need not press the **⊗** key for multiplication entries.

Example

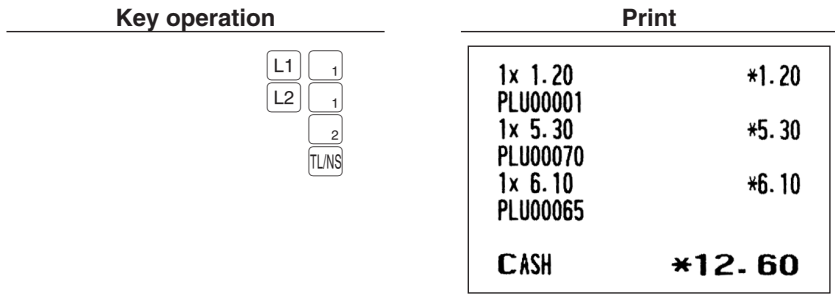
Level 1 : PLU code 1, PLU code 2
 Level 2 : PLU code 70, PLU code 65

- When your register has been programmed for the automatic return mode (by one item):



Level 1 : PLU code 1, PLU code 2
 Level 2 : PLU code 70, PLU code 65

- When your register has been programmed for the lock shift mode:



Price level shift

Two different price levels can be programmed for each PLU.
 The price levels can be changed for PLU registrations.

You can shift the PLU price level (level 1 or 2) by utilizing the price level shift key (PRICE SHIFT).

You must program a price level shift mode (i.e. automatic return mode* or lock shift mode**) and the operating mode to be used for the price level shift (i.e. both REG/MGR modes or MGR mode alone).

- * The automatic return mode automatically shifts the PLU price level back to level 1 after a PLU shift entry.

You can select whether the price level should return each time you enter one item or each time you finalize one transaction.

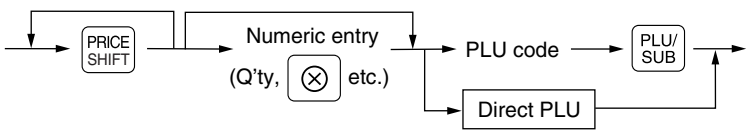
- ** The lock shift mode holds the current PLU price level until pressing the price level shift key.

Automatic return mode (for price level)

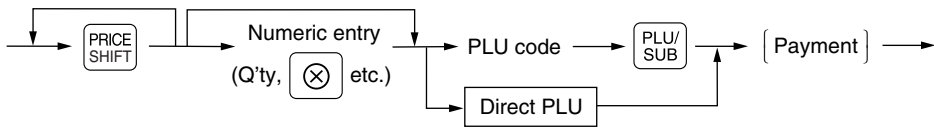
If your register has been programmed for the price level shift in the automatic return mode, press the price level shift key before a numeric entry.

Procedure

(each item)



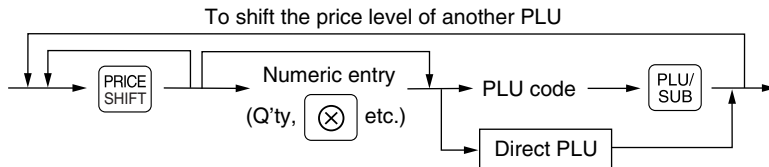
(each transaction)



Lock shift mode (for price level)

If your register has been programmed for the price level shift in the lock shift mode, press the price level shift key before a numeric entry.

Procedure



Example

PLU price level 1: PLU code 1 (*1.91), PLU code 2 (*0.79)

PLU price level 2: PLU code 1 (*2.00), PLU code 2 (*0.99)

- When your register has been programmed for the automatic return mode (by one item):

Key operation	Print
1 PLU/ SUB PRICE SHIFT 1 PLU/ SUB 2 PLU/ SUB TL/NS	1x 1.91 *1.91 PLU00001 1x 2.00 *2.00 PLU00001 1x 0.79 *0.79 PLU00002 CASH *4.70

- When your register has been programmed for the lock shift mode:

Key operation	Print
1 PLU/ SUB PRICE SHIFT 1 PLU/ SUB 2 PLU/ SUB TL/NS	1x 1.91 *1.91 PLU00001 1x 2.00 *2.00 PLU00001 1x 0.99 *0.99 PLU00002 CASH *4.90

Display of Subtotals

Your register provides the following types of subtotals:

■ Subtotal

Press the **ST** key at any point during a transaction. The sales subtotal including tax will appear in the display.

■ Difference subtotal (Differ ST)

Press the **DIFFER ST** key at any point during a transaction. When you press it first, the subtotal of all entries which have been made is displayed and printed. If you press it second, you will get the subtotal of entries which have been made after you got the first subtotal. Taxes are calculated each time you press the **DIFFER ST** key.

Example

Key operation



(In case of this example, the second difference subtotal is printed by the payment operation.)

Print

1x 1.91	*1.91
PLU00001	
1x 0.79	*0.79
PLU00002	
DIFF ST	*2.70
1x 6.20	*6.20
PLU00003	
DIFF ST	*6.20
CASH	*8.90

Finalization of Transaction

■ Cash or check tendering

Press the **[ST]** key to get an including-tax subtotal, enter the amount tendered by your customer, then press the **[TLNS]** or **[CA2]** key if it is a cash tender or press the **[CH1]** through **[CH4]** 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

Normal method

Key operation	Print														
? [ST] 1000 [TLNS]	<table border="1"> <tr> <td>1x 1.91</td> <td style="text-align: right;">*1.91</td> </tr> <tr> <td>PLU00001</td> <td></td> </tr> <tr> <td>1x 1.50</td> <td style="text-align: right;">*1.50</td> </tr> <tr> <td>PLU00002</td> <td></td> </tr> <tr> <td>***TOTAL</td> <td style="text-align: right;">*3.41</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">*10.00</td> </tr> <tr> <td>CHANGE</td> <td style="text-align: right;">*6.59</td> </tr> </table>	1x 1.91	*1.91	PLU00001		1x 1.50	*1.50	PLU00002		***TOTAL	*3.41	CASH	*10.00	CHANGE	*6.59
1x 1.91	*1.91														
PLU00001															
1x 1.50	*1.50														
PLU00002															
***TOTAL	*3.41														
CASH	*10.00														
CHANGE	*6.59														

Check tendering

Key operation	Print														
? [ST] 1000 [CH1]	<table border="1"> <tr> <td>1x 1.91</td> <td style="text-align: right;">*1.91</td> </tr> <tr> <td>PLU00001</td> <td></td> </tr> <tr> <td>1x 1.50</td> <td style="text-align: right;">*1.50</td> </tr> <tr> <td>PLU00002</td> <td></td> </tr> <tr> <td>***TOTAL</td> <td style="text-align: right;">*3.41</td> </tr> <tr> <td>CHECK</td> <td style="text-align: right;">*10.00</td> </tr> <tr> <td>CHANGE</td> <td style="text-align: right;">*6.59</td> </tr> </table>	1x 1.91	*1.91	PLU00001		1x 1.50	*1.50	PLU00002		***TOTAL	*3.41	CHECK	*10.00	CHANGE	*6.59
1x 1.91	*1.91														
PLU00001															
1x 1.50	*1.50														
PLU00002															
***TOTAL	*3.41														
CHECK	*10.00														
CHANGE	*6.59														

NOTE

You can also enter a check tender from the check menu window. Press the **[CH#]** key and select a pertinent check number and enter the amount.

■ Mixed tendering (check + cash)

Example	Key operation	Print																
	↵ [ST] 1000 [CH1] 500 [TLNS]	<table border="1"> <tr><td>1x 10.00</td><td>*10.00</td></tr> <tr><td>PLU00001</td><td></td></tr> <tr><td>1x 4.56</td><td>*4.56</td></tr> <tr><td>PLU00002</td><td></td></tr> <tr><td>***TOTAL</td><td>*14.56</td></tr> <tr><td>CHECK</td><td>*10.00</td></tr> <tr><td>CASH</td><td>*5.00</td></tr> <tr><td>CHANGE</td><td>*0.44</td></tr> </table>	1x 10.00	*10.00	PLU00001		1x 4.56	*4.56	PLU00002		***TOTAL	*14.56	CHECK	*10.00	CASH	*5.00	CHANGE	*0.44
1x 10.00	*10.00																	
PLU00001																		
1x 4.56	*4.56																	
PLU00002																		
***TOTAL	*14.56																	
CHECK	*10.00																	
CASH	*5.00																	
CHANGE	*0.44																	

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

Enter items and press the [TLNS] or [CA2] key if it is a cash sale or press the [CH1] through [CH4] key if it is a check sale. Your register will display the total sales amount.

Example	Key operation	Print																				
	10 [6] [PLU/SUB] [TLNS]	<table border="1"> <tr><td>1x 3.00</td><td>*3.00</td></tr> <tr><td>PLU00006</td><td></td></tr> <tr><td>1x 7.15</td><td>*7.15</td></tr> <tr><td>PLU00010</td><td></td></tr> <tr><td>CASH</td><td>*10.15</td></tr> </table> <p>In the case of check sale</p> <table border="1"> <tr><td>1x 3.00</td><td>*3.00</td></tr> <tr><td>PLU00006</td><td></td></tr> <tr><td>1x 7.15</td><td>*7.15</td></tr> <tr><td>PLU00010</td><td></td></tr> <tr><td>CHECK</td><td>*10.15</td></tr> </table>	1x 3.00	*3.00	PLU00006		1x 7.15	*7.15	PLU00010		CASH	*10.15	1x 3.00	*3.00	PLU00006		1x 7.15	*7.15	PLU00010		CHECK	*10.15
1x 3.00	*3.00																					
PLU00006																						
1x 7.15	*7.15																					
PLU00010																						
CASH	*10.15																					
1x 3.00	*3.00																					
PLU00006																						
1x 7.15	*7.15																					
PLU00010																						
CHECK	*10.15																					

■ Credit sale

Enter items and press the corresponding credit keys ([CR1] through [CR4]).

Example	Key operation	Print										
	[6] [7] [CR1]	<table border="1"> <tr><td>1x 3.00</td><td>*3.00</td></tr> <tr><td>PLU00006</td><td></td></tr> <tr><td>1x 6.00</td><td>*6.00</td></tr> <tr><td>PLU00007</td><td></td></tr> <tr><td>CREDIT1</td><td>*9.00</td></tr> </table>	1x 3.00	*3.00	PLU00006		1x 6.00	*6.00	PLU00007		CREDIT1	*9.00
1x 3.00	*3.00											
PLU00006												
1x 6.00	*6.00											
PLU00007												
CREDIT1	*9.00											

NOTE

- Amount tendering operations (i.e. change calculations) can be achieved by the [CR1] through [CR4] key when a PGM2 mode programming allows them.
- You can also enter a credit tender from the credit menu window. Press the [CR#] key and select a pertinent credit number and enter the amount.

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

Example	Key operation	Print																		
	950 ST TLNS CR2	<table border="1"> <tr> <td>1x 3.00</td> <td style="text-align: right;">*3.00</td> </tr> <tr> <td>PLU00001</td> <td></td> </tr> <tr> <td>1x 2.50</td> <td style="text-align: right;">*2.50</td> </tr> <tr> <td>PLU00002</td> <td></td> </tr> <tr> <td>1x 6.00</td> <td style="text-align: right;">*6.00</td> </tr> <tr> <td>PLU00003</td> <td></td> </tr> <tr> <td>***TOTAL</td> <td style="text-align: right;">*11.50</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">*9.50</td> </tr> <tr> <td>CREDIT2</td> <td style="text-align: right;">*2.00</td> </tr> </table>	1x 3.00	*3.00	PLU00001		1x 2.50	*2.50	PLU00002		1x 6.00	*6.00	PLU00003		***TOTAL	*11.50	CASH	*9.50	CREDIT2	*2.00
1x 3.00	*3.00																			
PLU00001																				
1x 2.50	*2.50																			
PLU00002																				
1x 6.00	*6.00																			
PLU00003																				
***TOTAL	*11.50																			
CASH	*9.50																			
CREDIT2	*2.00																			

NOTE Press the CH1 through CH4 keys or the CR1 through CR4 keys in place of the TLNS key when your customer makes payment by checks or by credit account.

Computation of VAT (Value Added Tax)/Tax

■ VAT/tax system

The register may be programmed for the following six tax systems by your authorized SHARP dealer.

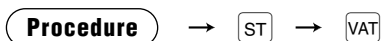
Automatic VAT 1 through 6 system (Automatic operation method using programmed percentages)

This system, at settlement, calculates VAT for taxable 1, taxable 2, taxable 3, taxable 4, taxable 5, and taxable 6 subtotals by using the corresponding programmed percentages.

Automatic tax 1 through 6 system (Automatic operation method using programmed percentages)

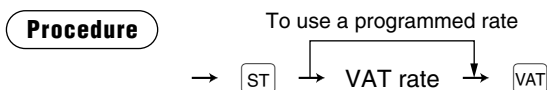
This system, at settlement, calculates taxes for taxable 1, taxable 2, taxable 3, taxable 4, taxable 5, and taxable 6 subtotals by using the corresponding programmed percentages, and also adds the calculated taxes to those subtotals, respectively.

Manual VAT 1 through 6 system (Manual entry method using programmed percentages)



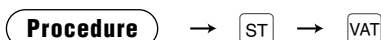
This system provides the VAT calculation for taxable 1, taxable 2, taxable 3, taxable 4, taxable 5, and taxable 6 subtotals. This calculation is performed using the corresponding programmed percentages when the **VAT** key is pressed just after the **ST** key.

Manual VAT 1 system (Manual entry method for subtotals that uses VAT 1 preset percentages)



This system enables the VAT calculation for the then subtotal. This calculation is performed using the VAT 1 preset percentages when the **VAT** key is pressed just after the **ST** key. For this system, the keyed-in tax rate can be used.

Manual tax 1 through 6 system (Manual entry method using programmed percentages)



This system provides the tax calculation for taxable 1, taxable 2, taxable 3, taxable 4, taxable 5, and taxable 6 subtotals. This calculation is performed using the corresponding programmed percentages when the **VAT** key is pressed just after the **ST** key. After this calculation, you must finalize the transaction.

Automatic VAT 1 through 3 and tax 4 through 6 system

This system enables the calculation in the combination with automatic VAT 1 through 3 and tax 4 through 6. This combination can be any of VAT 1 through 3 and tax 4 through 6. The tax amount is calculated automatically with the percentages previously programmed for these taxes.

NOTE VAT/tax assignment is printed at the fixed right position of the amount on the receipt and bill as follows:

VAT1/tax1 —————> A
 VAT2/tax2 —————> B
 VAT3/tax3 —————> C
 VAT4/tax4 —————> D
 VAT5/tax5 —————> E
 VAT6/tax6 —————> F

When the multiple VAT/tax is assigned to a department or a PLU, a smaller number of the VAT/tax will be printed. For details, contact your authorized SHARP dealer.


Example	Key operation	Print																		
(When the manual VAT 1 through 6 system is selected)	<div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;">8</div> <div style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;">ST</div> <div style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;">VAT</div> <div style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;">TLNS</div> </div>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">1x 9.60</td> <td style="text-align: right;">*9.60</td> </tr> <tr> <td>PLU00008</td> <td></td> </tr> <tr> <td>SUBTOTAL</td> <td style="text-align: right;">*9.60</td> </tr> <tr> <td colspan="2" style="border-top: 1px dashed black;"></td> </tr> <tr> <td>TAX1 ST</td> <td style="text-align: right;">*9.60</td> </tr> <tr> <td>VAT 1</td> <td style="text-align: right;">*0.37</td> </tr> <tr> <td>NET 1</td> <td style="text-align: right;">*9.23</td> </tr> <tr> <td colspan="2" style="border-top: 1px dashed black;"></td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">*9.60</td> </tr> </table>	1x 9.60	*9.60	PLU00008		SUBTOTAL	*9.60			TAX1 ST	*9.60	VAT 1	*0.37	NET 1	*9.23			CASH	*9.60
1x 9.60	*9.60																			
PLU00008																				
SUBTOTAL	*9.60																			
TAX1 ST	*9.60																			
VAT 1	*0.37																			
NET 1	*9.23																			
CASH	*9.60																			


■ VAT shift entries

This feature is intended to shift the tax status of a particular department (or PLU) programmed for taxable 1 or taxable 1 and taxable 3.

- When the VAT shift entry is made for a particular department or PLU programmed for taxable 1, their tax status shifts to taxable 2.
- When this entry is made for a particular department (or PLU) programmed for taxable 1 and taxable 3, the tax status "taxable 1" remains unchanged, but the other, "taxable 3" is ignored.

There are two types of VAT shift entries: VAT shift by transaction and by item.

VAT shift by transaction enables the VAT shift function to be in effect during a transaction. Press the  key to enter the VAT shift mode at the start of transaction. You can also perform this function by assigning the clerk to operate in the VAT shift status (PERSONNEL-CLERK programming).

VAT shift by item is valid only for one item. Press the  key just before the item entry.

In case of VAT shift by transaction

Example	Key operation	Print																		
(When the manual VAT 1 through 6 system is selected)	<div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;">VAT SHIFT</div> <div style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;">8</div> <div style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;">ST</div> <div style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;">VAT</div> <div style="border: 1px solid black; padding: 2px; width: 20px; text-align: center;">TLNS</div> </div>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">1x 9.60</td> <td style="text-align: right;">*9.60</td> </tr> <tr> <td>PLU00008</td> <td></td> </tr> <tr> <td>SUBTOTAL</td> <td style="text-align: right;">*9.60</td> </tr> <tr> <td colspan="2" style="border-top: 1px dashed black;"></td> </tr> <tr> <td>TAX2 ST</td> <td style="text-align: right;">*9.60</td> </tr> <tr> <td>VAT 2</td> <td style="text-align: right;">*0.46</td> </tr> <tr> <td>NET 2</td> <td style="text-align: right;">*9.14</td> </tr> <tr> <td colspan="2" style="border-top: 1px dashed black;"></td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">*9.60</td> </tr> </table>	1x 9.60	*9.60	PLU00008		SUBTOTAL	*9.60			TAX2 ST	*9.60	VAT 2	*0.46	NET 2	*9.14			CASH	*9.60
1x 9.60	*9.60																			
PLU00008																				
SUBTOTAL	*9.60																			
TAX2 ST	*9.60																			
VAT 2	*0.46																			
NET 2	*9.14																			
CASH	*9.60																			

- NOTE** ER-A280F
- If you want to achieve the VAT shift per item, contact your authorized SHARP dealer.
- ER-A280N
- If you need the VAT shift function, contact your authorized SHARP dealer.

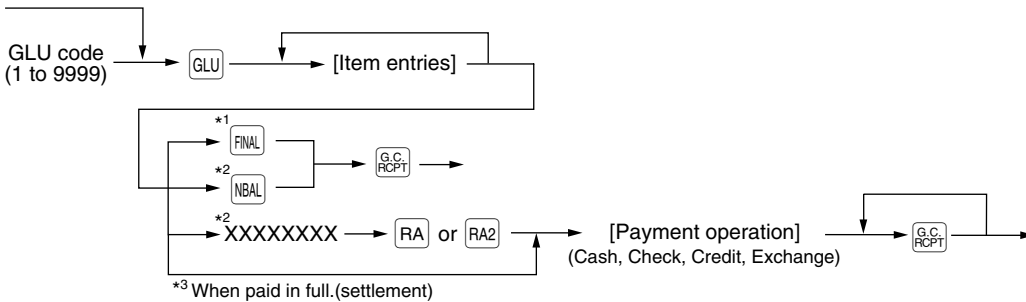
Guest Check (GLU)

■ Guest look up (GLU) system

New guest

Procedure

For automatic GLU code generation



NOTE

- A clerk must have been registered before starting GLU entry in case the clerk system or the clerk + cashier system is selected.
- The GLU code refers to a code that will be used whenever the guest check must be accessed for re-ordering or final payment.
- Your register can be programmed GLU codes in a sequential fashion (automatic GLU code generation). If your register has not been programmed to do so, each GLU code can be entered manually.
- When you open the guest check (ex. #2) during operating another guest check (ex. #1), the previous guest check (#1) is closed automatically by NBAL function.

*1 This is the optional function. (Temporary finalization)

You can temporarily finalize a guest check by pressing the **FINAL** key. This prints out a guest check to show the current balance, including tax. The guest check, however, is still "open." This means you can still make additional orders to it. The tax is calculated but is not added to the tax totalizer.

However you can still make additional orders to it by displaying the opened GLUs.

*2 The tax is not calculated.

*3 The tax is calculated and is added to the tax totalizer.

Example

Key operation

1001 **GLU**
 1
 2
NBAL

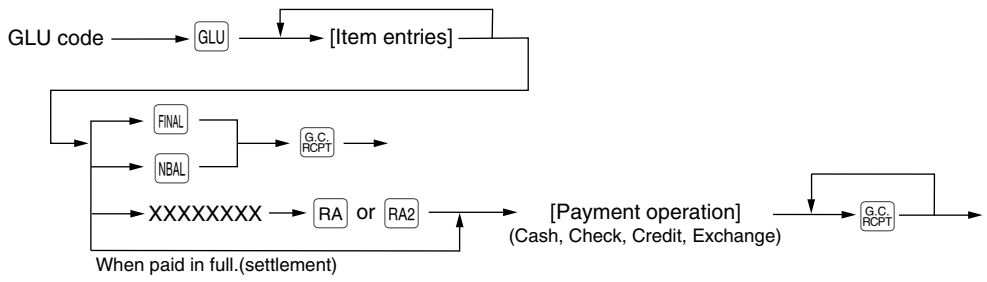
Print

```

GLU#1001
***PBAL          *0.00
1x 1.91          *1.91
PLU00001
1x 0.79          *0.79
PLU00002
***NBAL          *2.70
  
```

Additional ordering

Procedure



Example

Key operation

1001

Print

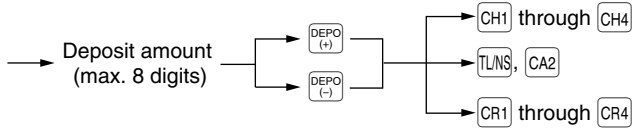
GLU#1001	
***PBAL	*2.70
1x 2.50	*2.50
PLU00007	
CASH	*5.20

■ Deposit entries

Deposit refers to a prepayment on a guest check. It can be received in cash, by check or credit. You can make a deposit entry only when entering a guest check. It cannot be done during handling of a tendered amount.

A received deposit can be refunded by pressing the **DEPO (-)** key. You cannot attempt to refund an amount larger than the deposit balance.

Procedure



Example

Key operation

1001 **GLU**
 5000 **DEPO (+)**
TL/NS
NBAL

Print

```

GLU#1001
***PBAL           *0.00
CASH
DEPOSIT           *50.00
***NBAL           -50.00
  
```

Example

Key operation

1001 **GLU**
 5000 **DEPO (-)**
TL/NS
NBAL

Print

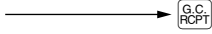
```

GLU#1001
***PBAL           -50.00
CASH
DEPO. (-)        -50.00
***NBAL           *0.00
  
```

■ Bill printing

This function is used for issuing the bill to the guest.

Procedure



NOTE

- This function is available immediately after the finalization of transaction.
- If the copy function is allowed, you can print the bill copy on receipt only once. If you need the bill copy, contact your authorized SHARP dealer.

Example

Key operation



Print

GLU#2001	
BILL	
1x 10.00	*10.00
DPT.01	
1x 2.55	*2.55
DPT.02	
CASH	----- *12.55

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 99.99%

Percent calculation for a subtotal

Example

Key operation	Print
(When a discount of 10% is programmed for the <input type="text" value="%1"/> key.)	
<input type="text" value="3"/>	1x 5.60 *5.60
<input type="text" value="5"/>	PLU00003
<input type="text" value="5"/>	2x 2.25 *4.50
<input type="text" value="ST"/>	PLU00005
<input type="text" value="%1"/>	SUBTOTAL *10.10
<input type="text" value="TL/NS"/>	%1 -10.00% -1.01
	CASH *9.09

Percent calculation for item entries

Example

Key operation	Print
(When a premium of 15% is programmed for the <input type="text" value="%2"/> key.)	
<input type="text" value="6"/>	1x 8.00 *8.00
<input type="text" value="%2"/>	PLU00006
<input type="text" value="30"/>	%2 15.00% *1.20
7 <input type="text" value="."/> <input type="text" value="5"/>	1x 5.00 *5.00
<input type="text" value="PLU/SUB"/>	PLU00030
<input type="text" value="%2"/>	%2 7.50% *0.38
<input type="text" value="TL/NS"/>	CASH *14.58

■ 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
<input type="text" value="6"/>	1x 5.75 *5.75
60 <input type="text" value="PLU/SUB"/>	PLU00006
<input type="text" value="ST"/>	1x 12.00 *12.00
100 <input type="text" value="O2"/>	PLU00060
<input type="text" value="TL/NS"/>	(-) 2 -1.00
	CASH *16.75

Discount for item entries

Example	Key operation	Print								
	7 PLU SUB 75 ⊖1 TL/NS	<table border="1"> <tr> <td>1x 6.75</td> <td>*6.75</td> </tr> <tr> <td>PLU00007</td> <td></td> </tr> <tr> <td>(-) 1</td> <td>-0.75</td> </tr> <tr> <td>CASH</td> <td>*6.00</td> </tr> </table>	1x 6.75	*6.75	PLU00007		(-) 1	-0.75	CASH	*6.00
1x 6.75	*6.75									
PLU00007										
(-) 1	-0.75									
CASH	*6.00									

Refund entries

For a refund entry, press the RF key just before you press a department key, DEPT # key, direct PLU key or PLU/SUB key or just before you scan an EAN code. The operation before pressing the RF 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 RF 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 RF and PLU/SUB keys; and if a refund item is the one entered into an EAN, press the RF key and scan the EAN code.

Example	Key operation	Print										
	RF 3 7 ⊗ 7 RF PLU/ SUB TL/NS	<table border="1"> <tr> <td>-1x 1.50</td> <td>R-1.50</td> </tr> <tr> <td>PLU00003</td> <td></td> </tr> <tr> <td>-7x 2.00</td> <td>R-14.00</td> </tr> <tr> <td>PLU00007</td> <td></td> </tr> <tr> <td>CHANGE</td> <td>*15.50</td> </tr> </table>	-1x 1.50	R-1.50	PLU00003		-7x 2.00	R-14.00	PLU00007		CHANGE	*15.50
-1x 1.50	R-1.50											
PLU00003												
-7x 2.00	R-14.00											
PLU00007												
CHANGE	*15.50											

Printing of non-add code numbers

Enter a non-add code number such as a guest code number and credit card number within a maximum of 16 digits and press the # key at any point during the entry of a sale. Your register will print at once.

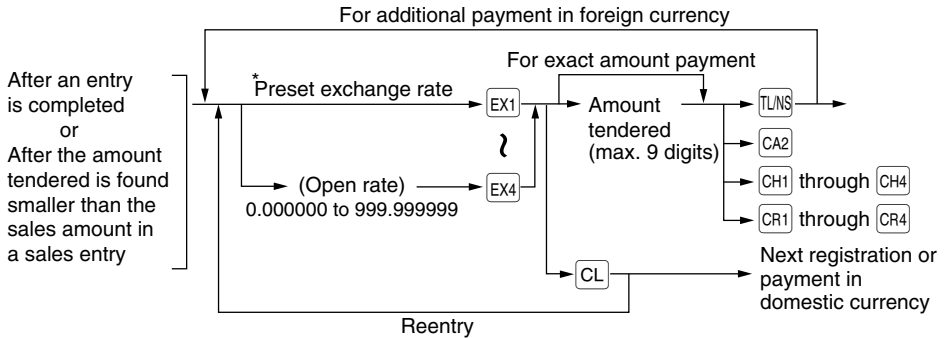
Example	Key operation	Print								
	1230 # 1 CR2	<table border="1"> <tr> <td></td> <td>#0000000000001230</td> </tr> <tr> <td>1x 10.00</td> <td>*10.00</td> </tr> <tr> <td>PLU00001</td> <td></td> </tr> <tr> <td>CREDIT2</td> <td>*10.00</td> </tr> </table>		#0000000000001230	1x 10.00	*10.00	PLU00001		CREDIT2	*10.00
	#0000000000001230									
1x 10.00	*10.00									
PLU00001										
CREDIT2	*10.00									

Payment Treatment

■ Currency exchange

Your register allows payment entries in foreign currency. Pressing the **EX1** through **EX4** key creates a subtotal in foreign currency. Cash alone can be handled after currency exchange.

Procedure



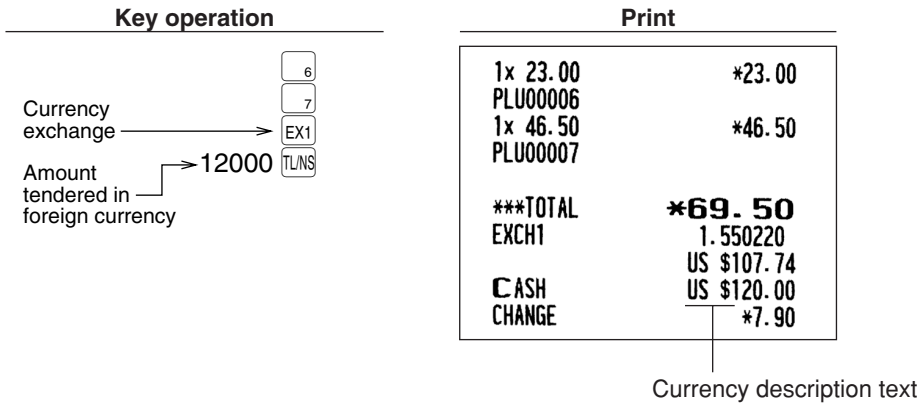
*Preset rate: 0.000000 to 999.999999

NOTE

- When the amount tendered is short, its equivalent in deficit is shown in domestic currency.
- You can also enter a foreign currency tender from the exchange menu window. Press the **EX #** key and select a pertinent exchange number and enter the amount.
- Change amount will be displayed in domestic currency.
- Availability of credit and cheque tendering depends on the programming. (Only for the exchange 1)

Example

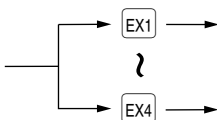
Preset exchange rate (1.550220) :EX1



NOTE

Case of opening foreign currency drawer:

- At the timing of issuing receipt after tendering exchange amount.
 - At the timing of issuing X/Z report (included CCD)
 - The **Exchange drawer open function** is executed.
- When the **EXCHANGE(n)** key is pressed simply out of transaction, the foreign currency drawer is opened, and no sale counter will counted one up.



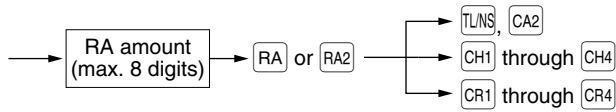
■ Received-on-account entries

To receive a received-on-account (RA), you can select either of cash only system or mixed tendering system. Select the cash only system when you receive RA by cash only. In the mixed tendering system, you can receive RA by cash, check or credit. In either system, you cannot receive RA in foreign currency.

Mixed tendering system

Procedure

Direct key entries



Menu-based entries



Example

Key operation

```

12345 [#]
4800  [RA]
      [CH1]
  
```

Print

```

#0000000000012345
CHECK
***RA                *48.00
  
```

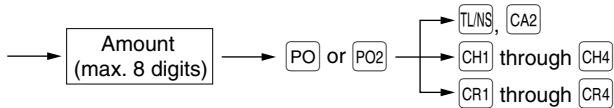
■ Paid-out entries

To make a paid-out (PO) entry, you can select either of cash only system or mixed tendering system. Select the cash only system when you make a payment by cash only. In the mixed tendering system, you can make a payment by cash, check or credit.

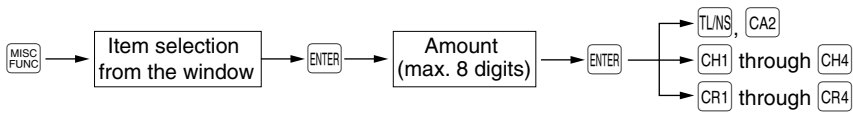
Mixed tendering system

Procedure

Direct key entries



Menu-based entries



Example

Key operation

6789 [#]
3000 [PO]
[TL/NS]

Print

```

#0000000000006789
CASH
***PO *30.00
  
```

■ No-sale (exchange)

Simply press the **TLNS** key without any entry. The drawer will open and the printer will print "NO SALE" on both the journal and the receipt. If you let your machine print a non-add code number before pressing the **TLNS** key, a no sale entry is achieved with a non-add code number printed.

Print

NO SALE

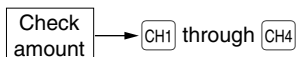
NOTE You can also enter "No-sale" from the miscellaneous menu. Press the **MISC FUNC** key and select "NO SALE" from the menu.

■ Cashing a check

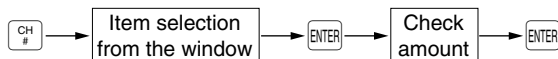
NOTE To use this function, please consult your authorized SHARP dealer.

Procedure

Direct key entries



Menu-based entries



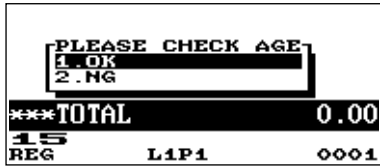
Example

	Key operation	Print
	6789 #	
	3000 CH1	
		#0000000000006789 CA/CHK1 *30.00

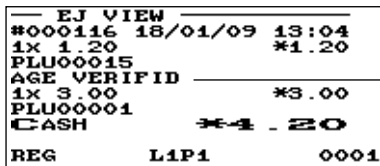
Age Verification

The age verification function is used for prohibiting the selling of goods (departments, PLUs, or EANs) for certain aged persons.

When a department/PLU/EAN for which the age verification has been programmed as “Yes” is entered, the following confirmation window is displayed. Confirm the customer’s age, and select “1. OK” or “2. NG”.



When the age verification item is entered, the message “AGE VERIFID” is recorded on the journal.



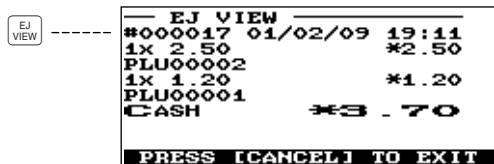
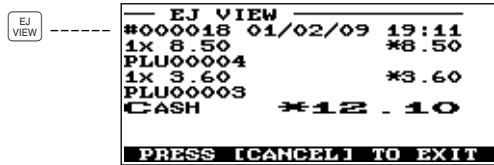
Message for “PLU00015”


Electronic Journal View

The transaction data is kept in the electronic journal memory.


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

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

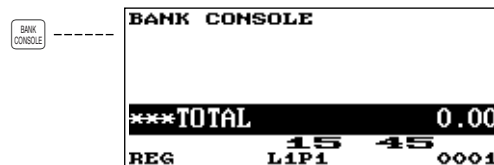


To exit the electronic journal view, press the  key.

Bank Console Mode

When the  key is pressed in the REG/MGR mode, the register starts functioning as console for the EFT-IF.

Once the "BANK CONSOLE MODE" is entered, the register cannot be normally operated until the EFT-IF releases the register.



TRAINING Mode

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

NOTE

In case "clerk and cashier system" is applied to your register, cashiers can enter to the training mode.

When a clerk/cashier set in training is selected, the register automatically enters the training mode, while a clerk/cashier not set in training is selected, the register automatically enters the ordinary REG mode. A training text and a maximum of two training clerks/cashiers 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.

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

The GLU codes which are opened in the training mode are also printed on the GLU report. In this case, those GLU codes are distinguished from others by the character of "T." The data of training GLU codes are not added to the total.

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

Key operation		Print												
Selecting the clerk set in training	3	<table border="0" style="width: 100%;"><tr><td colspan="2" style="text-align: center;">TRAINING</td></tr><tr><td>1x 2.25</td><td style="text-align: right;">*2.25</td></tr><tr><td>PLU00005</td><td></td></tr><tr><td>3x 1.40</td><td style="text-align: right;">*4.20</td></tr><tr><td>PLU00003</td><td></td></tr><tr><td>CASH</td><td style="text-align: right;">*6.45</td></tr></table>	TRAINING		1x 2.25	*2.25	PLU00005		3x 1.40	*4.20	PLU00003		CASH	*6.45
TRAINING														
1x 2.25	*2.25													
PLU00005														
3x 1.40	*4.20													
PLU00003														
CASH	*6.45													

Overlapped Clerk Entry

This function allows to switch from one clerk to another clerk and to interrupt the first clerk's entry. So the second clerk can do his or her entry in this mode. Interrupt handling is possible only in the overlapped clerk entry. For actual use of this function, contact your authorized SHARP dealer.

NOTE

- The overlapped clerk entry is available only in the clerk entry system.
- The overlapped clerk entry is not effective while the tendering sale is going on.
- If any clerk is still making an entry (or has not finalized the transaction yet), the register does not run in any mode other than REG and MGR, and no X/Z reports can be printed. The message "CLERK REMAINED" and the related clerk are displayed.

Example

- Clerk 1: Entry started
- Clerk 2: Clerk change (1 to 2), interrupt initiated
- Clerk 2: Transaction finished
- Clerk 1: Clerk change (2 to 1), entry restarted

Key operation	Display												
[Clerk 1 is assigned.] 1 <input type="button" value="CLK #"/> <input type="button" value="1"/> <input type="button" value="3"/> <input type="button" value="3"/>	<table border="1"> <tr><td>PLU00001</td><td></td></tr> <tr><td>2x1.10</td><td>2.20</td></tr> <tr><td>PLU00003</td><td></td></tr> <tr><td>***TOTAL</td><td>3.40</td></tr> <tr><td>PLU00003</td><td>1.10</td></tr> <tr><td>REG L1P1</td><td>0001</td></tr> </table>	PLU00001		2x1.10	2.20	PLU00003		***TOTAL	3.40	PLU00003	1.10	REG L1P1	0001
PLU00001													
2x1.10	2.20												
PLU00003													
***TOTAL	3.40												
PLU00003	1.10												
REG L1P1	0001												
[Clerk 2 is assigned.] 2 <input type="button" value="CLK #"/> 3 <input type="button" value="⊗"/> <input type="button" value="2"/> <input type="button" value="TLNS"/>	<table border="1"> <tr><td>3x1.50</td><td>4.50</td></tr> <tr><td>PLU00002</td><td></td></tr> <tr><td>CASH</td><td>4.50</td></tr> <tr><td>***TOTAL</td><td>4.50</td></tr> <tr><td>REG L1P1</td><td>5 43 0002</td></tr> </table>	3x1.50	4.50	PLU00002		CASH	4.50	***TOTAL	4.50	REG L1P1	5 43 0002		
3x1.50	4.50												
PLU00002													
CASH	4.50												
***TOTAL	4.50												
REG L1P1	5 43 0002												
[Clerk 1 is assigned.] 1 <input type="button" value="CLK #"/> <input type="button" value="1"/> <input type="button" value="3"/> <input type="button" value="TLNS"/>	<table border="1"> <tr><td>3x1.10</td><td>3.30</td></tr> <tr><td>PLU00003</td><td></td></tr> <tr><td>CASH</td><td>5.70</td></tr> <tr><td>***TOTAL</td><td>5.70</td></tr> <tr><td>REG L1P1</td><td>5 45 0001</td></tr> </table>	3x1.10	3.30	PLU00003		CASH	5.70	***TOTAL	5.70	REG L1P1	5 45 0001		
3x1.10	3.30												
PLU00003													
CASH	5.70												
***TOTAL	5.70												
REG L1P1	5 45 0001												

5

Correction

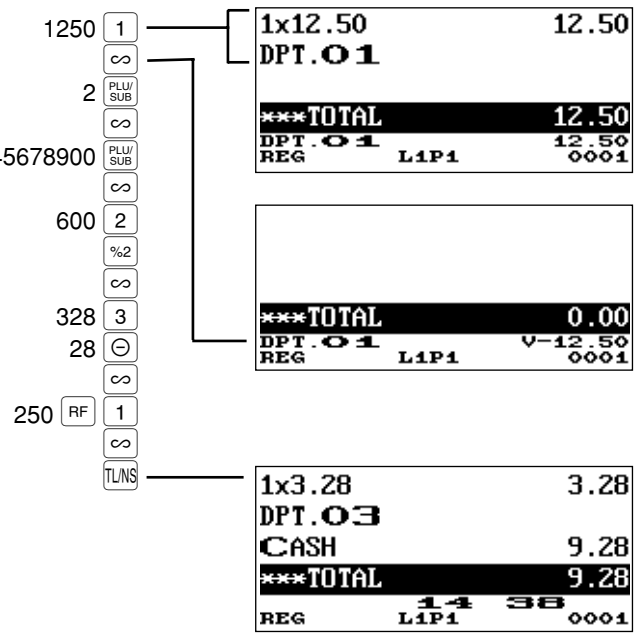
Correction of the Last Entry (Direct Void)

If you make an incorrect entry relating to a department, PLU/subdepartment, EAN, percentage (%1) through (%4), discount (⊖1) through (⊖4), or item refund, you can void this entry by pressing the ∞ key immediately.

Example

Key operation

Display



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 **TLNS** 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, EAN, item refund, amount discount/premium and percent entries.

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

Indirect void by key sequence operation

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

Press the **∞** key just before you press a department key, **DEPT** key, direct PLU key or **PLU/SUB** key or just before you scan an EAN code. For the refund indirect void, press the **∞** key after you press the **RF** key.

Example

(Indirect void by cursor operation)

Key operation

1310 **1**
7
 10 **PLU/SUB**
 50 **∞** 5 **PLU/SUB**
 Move the cursor to the item to be voided.

∞

49 **∞** 5 **∞** **PLU/SUB**

TLNS

Display

1x2.10	2.10
PLU00007	
1x8.20	8.20
***TOTAL	85.90
PLU00005	62.50
REG L1P1	0001

1x8.20	8.20
PLU00010	
50x1.25	62.50
***TOTAL	83.80
PLU00007	V-2.10
REG L1P1	0001

PLU00010	
1x1.25	1.25
PLU00005	
***TOTAL	22.55
PLU00005	V-61.25
REG L1P1	0001

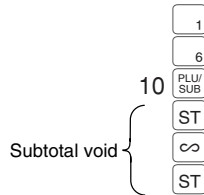
1x1.25	1.25
PLU00005	
CASH	22.55
***TOTAL	22.55
REG L1P1	10 58 0001

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



Display

PLU00010	
SBTL VOID	-12.90
***TOTAL	0.00
***TOTAL	0.00
	14 51
REG	L1P1 0001

Correction of Incorrect Entries Not Handled by the Direct, Indirect or Subtotal Void Function

Any errors found after the entry of a transaction has been completed or during an amount tendered entry cannot be voided. These errors must be handled by the manager. The following steps should be taken.

1. If you are making the amount tendered entry, finalize the transaction.
2. Make correct entries from the beginning.
3. Hand the incorrect receipt to your manager for its cancellation.

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** key for receipting. Your register can also print a copy receipt when the receipt ON-OFF function is in the "ON" status. *If you want to make a copy, please consult your authorized SHARP dealer.*

- NOTE** To toggle the receipt ON-OFF status, use one of the following procedures:
- Select "RCP SW." from the window which is opened by pressing the **MISC FUNC** key.
 - Press the **RCP SW** key to open the "RCP SW." window.


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

Key operation	Print										
<div style="display: flex; align-items: center; justify-content: center; gap: 5px;"> <div style="border: 1px solid black; padding: 2px 5px;">2</div> <div style="font-size: 2em;">3</div> <div style="border: 1px solid black; padding: 2px 5px;">⊗</div> <div style="border: 1px solid black; padding: 2px 5px;">1</div> <div style="border: 1px solid black; padding: 2px 5px;">TLNS</div> </div> <p style="text-align: center; margin-top: 10px;">For receipting → RCPT</p>	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">1x 8.00</td> <td style="text-align: right;">*8.00</td> </tr> <tr> <td>PLU00002</td> <td></td> </tr> <tr> <td>3x 1.25</td> <td style="text-align: right;">*3.75</td> </tr> <tr> <td>PLU00001</td> <td></td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">*11.75</td> </tr> </table> </div>	1x 8.00	*8.00	PLU00002		3x 1.25	*3.75	PLU00001		CASH	*11.75
1x 8.00	*8.00										
PLU00002											
3x 1.25	*3.75										
PLU00001											
CASH	*11.75										

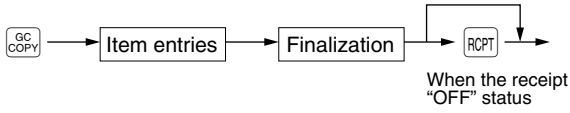
"COPY" is printed on the copy receipt.

COPY	
1x 8.00	*8.00
PLU00002	
3x 1.25	*3.75
PLU00001	
CASH	*11.75

Guest Check Copy

You can use this function when you want to take a copy of guest check.
Press the  key and make a desired entry.

Procedure







NOTE

- The guest check copy has nothing to do with the memory.
- The operation is the same as normal entry. But the drawer does not open.

Example

Key operation

10    

Print

	G. C. COPY	
10x 1.25		*12.50
PLU00001		
CASH		*12.50

7 Manager Mode

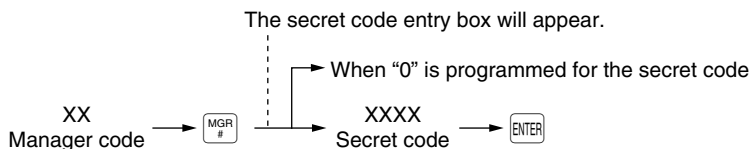
The manager mode is used when managerial decisions must be made concerning register entries, for example, for overriding limitations and for other various non-programming managerial tasks.

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:

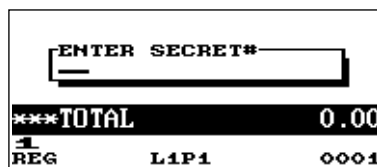
Procedure



Example

The manager code is stored in the manager file in advance. If the code is not found in this file, an error occurs. 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	Print
REG-mode entries	250 <input type="button" value="2"/> <input type="button" value="02"/>Error <input type="button" value="CL"/>	1x 15.00 *15.00 PLU00002 (-) 2 -2.50 CASH *12.50
Enter to the manager mode	250 <input type="button" value="02"/>	
Return to the REG mode.	<input type="button" value="TL/NS"/>	

Correction after Finalizing a Transaction

When you need to void incorrect entries that clerks cannot correct (incorrect entries that are found after finalizing a transaction or cannot be corrected by direct, indirect or subtotal void), follow this procedure in the MGR mode.

1. Enter to the manager mode.
2. Press the  key to put your register in the VOID mode. (Note the indication on the display.)
3. Repeat the entries that are recorded on an incorrect receipt. (All data in the incorrect receipt is removed from register memory; the voided amounts are added to the void mode totalizer.)

Incorrect receipt			Cancellation receipt		
#000038	16/01/2009	15:38	#000039	16/01/2009	15:38
0001 CLERK0001		111111	0001 CLERK0001		111111
1x 1.25		*1.25	*VOID MODE*		
PLU00001			1x 1.25		*1.25
1x 15.00		*15.00	PLU00001		
PLU00002			1x 15.00		*15.00
			PLU00002		
CASH		*16.25	CASH		*16.25

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 2. and 3. above.

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, an clerk and/or cashier can take his or her report.
- If you want to stop the printing report, press the **CANCEL** key. Even if the printing is stopped, the consecutive number (and Z counter if you are printing a Z report) is increased by one.

NOTE

Only when "clerk + cashier system" is applied, you can take both of Clerk and Cashier reports.

■ How to take a X1/Z1 or X2/Z2 report

[To take an X1 or X2 report:]

1. Select "1 READING" in the X1/Z1 or X2/Z2 mode menu window to display the items list.
2. Select a report title listed in the table shown later. When you select an item with parentheses on the opening screen, you can jump to the pertinent report title(s).
3. If needed, enter corresponding values described in the "Data to be entered" column on the table shown later.
4. Select a device ("DISPLAY" or "REPORT PRINTER") to receive the output.

[To take a Z1 or Z2 report:]

1. Select "2 RESETTING" in the X1/Z1 or X2/Z2 mode menu window to display the items list.
2. Select a report title listed in the table shown later.
3. If needed, enter corresponding values described in the "Data to be entered" column on the table shown later.
4. After the report has been taken, the message "ARE YOU SURE ?" will appear.
Select one of the following actions:
 - Select "YES" to reset the sales information.
 - Select "NO" to save the sales information.

■ Flash report

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

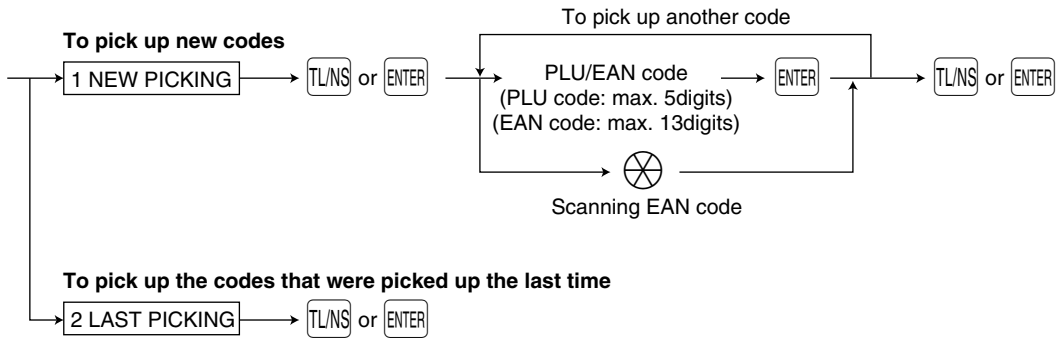
1. Select "3 FLASH MODE" in the X1/Z1 mode menu window to display the items list.
2. Select "DEPT. SALES" to take a flash report of department sales, "CID" to take a flash report of cash in drawer, or "SALES TOTAL" to take a flash report of sales total.

Report type	Description	Operating modes			Data to be entered
		OPXZ	X1/Z1	X2/Z2	
GENERAL	General report	-	X1,Z1	X2,Z2	
<DEPARTMENT>					
DEPT. /GROUP	Department by group report	-	X1	X2	Department code (The range can be specified by entering start and end codes.)
DEPT. IND. GROUP	Individual department group report	-	X1	X2	Department group no. (1 to 14)
DEPT. GROUP TOTAL	Department group total report	-	X1	X2	
<PLU>					
PLU	PLU/EAN sales report by specified range	-	X1,Z1	X2,Z2	PLU/EAN code (The range can be specified by entering start and end codes.)
PLU PICKUP	PLU/EAN pickup report	-	X1,Z1	X2,Z2	*1
PLU BY DEPT.	PLU/EAN report by associated dept.	-	X1,Z1	X2,Z2	Department code
PLU STOCK	PLU/EAN stock report	-	X1	-	PLU/EAN code (The range can be specified by entering start and end codes.)
PLU STOCK PICKUP	PLU/EAN stock pickup report	-	X1	-	*1
PLU ZERO SALES	PLU/EAN zero sales report	-	X1	X2	All PLU/EAN codes
	PLU/EAN zero sales report by associated dept.	-	X1	X2	Department code
PLU PRICE CATEGORY	PLU/EAN sales report by price category	-	X1	X2	PLU/EAN price category
<TRANSACTION>					
TRANSACTION	Transaction report	-	X1	X2	
TL-ID	Total-in-drawer report	-	X1	X2	
COMMISSION SALES	Commission sales report	-	X1	X2	
<PERSONNEL>					
ALL CLERK	All clerk report	-	X1,Z1	X2,Z2	
IND. CLERK	Individual clerk report	X,Z	X1,Z1	X2,Z2	
ALL CASHIER	All cashier report	-	X1,Z1	X2,Z2	Only for the clerk + cashier system
IND. CASHIER	Individual cashier report	X,Z	X1,Z1	X2,Z2	Only for the clerk + cashier system
<OTHERS>					
HOURLY	Hourly report (by specified range)	-	X1	-	For an individual time range
	Hourly report (all)	-	X1,Z1	-	
DAILY NET	Daily net report	-	-	X2,Z2	
GLU	GLU report	-	X1,Z1	-	GLU code (The range can be specified by entering start and end codes.)
GLU BY CLERK	GLU report by clerk	-	X1,Z1	-	
BALANCE	Balance report	-	X1	X2	
STACKED REPORT	Stacked report 1	-	X1,Z1	X2,Z2	
	Stacked report 2				
E. JOURNAL	Electronic journal	X,Z	X1,Z1	-	

NOTE

*1: You can pick up PLU/EAN codes for issuing the report. You can pick up new PLU/EAN codes or the codes that were picked up the last time. To pick up new codes, select "1 NEW PICKING", and follow the procedure show below to pick up new codes. To pick up the codes that were picked up last time, select "2 LAST PICKING".

Follow the following procedure for picking up PLU/EAN codes.



* The following reports relating to PLU/EAN is issued in the sequence of PLUs and EANs. PLU, PLU BY DEPT, PLU IND. GROUP, PLU ZERO SALES, PLU STOCK, PLU MINIMUM STOCK and PLU PRICE CATEGORY
Also the EAN codes are printed in the sequence shown below.

EAN-13
EAN-8
UPC-A
UPC-E
ITF-14

Daily Sales Totals

■ General report

• Sample X report

X1		Read symbol
TR	*00000000006.45	Report title
DEPT./GROUP		Dept. code
D01	872.863 Q	Sales q'ty
DPT.01	*5365.67	Dept. description and sales amount
	96.82%	Ratio of dept. 1 sales amount to "+" dept. total
D02	49.500 Q	
DPT.02	*122.08	
	2.20%	
D03	4.000 Q	
DPT.03	*13.98	
	0.25%	
GROUP01	926.363 Q	Group 1 total q'ty
	*5501.73	Group 1 total amount
	99.28%	Ratio of dept. group 1 sales amount to "+" dept. total
		Group 1 text
D04	3.000 Q	
DPT.04	*20.40	
	0.37%	
GROUP03	3.000 Q	
	*20.40	
	0.37%	
D05	4.000 Q	
DPT.05	*19.60	
	0.35%	
GROUP09	4.000 Q	
	*19.60	
	0.35%	
*DEPT TL	933.363 Q	"+" dept. sales q'ty and total
	*5541.73	
	100.00%	
D06	1.000 Q	"-" dept. counter and total
DPT.06	*12.00	
DEPT (-)	1.000 Q	
	*12.00	

• Sample Z report

Z1		
	Z1 0001	Reset counter
GT1	*00000005537.26	Net grand total (GT2-GT3)
GT2	*00000005646.75	Grand total of plus registration
GT3	-00000000109.49	Grand total of minus registration
BAL	*00000000658.80	Grand total of registration
TR	*00000000006.45	Order - paid total
DEPT./GROUP		Grand total of training-mode registrations

↓
The subsequent printout occurs in the same format as in the sample X1 report.

TRANSACTION		Report title
(-) 2	4 Q	Subtotal (-) counter and total
	-5.02	
(-) 3	1 Q	
	-0.73	
(-) 4	1 Q	
	-0.61	
SETPLU-	-0.50	
%1	2 Q	Subtotal % counter and total
	-1.13	
%3	2 Q	
	-2.22	
%4	1 Q	
	-0.54	
NET 1	*5553.51	Net sales total
TAX1 ST	*3274.36	Taxable 1 total
VAT 1	*125.94	VAT 1 total
TAX2 ST	*67.88	
VAT 2	*3.23	
TAX3 ST	*39.08	
VAT 3	*2.21	
TAX4 ST	*39.08	
VAT 4	*2.73	
TAX5 ST	*39.08	
VAT 5	*2.89	
TAX6 ST	*39.08	
VAT 6	*3.87	
TTL TAX	*140.87	
NET	*5412.64	Printed in case add-on tax is included.
VAT SFT	*19.20	
(-) 1	1 Q	Item (-) counter and total
	-0.75	
%2	4 Q	Item % counter and total
	*1.67	
DISCOUNT	2 Q	Discount in promotion sale
	-4.88	
CP PLU	1 Q	Coupon-like PLU counter and total
	-1.45	
REFUND	2 Q	Refund counter and total
	*15.50	
VOID	12 Q	REG-mode item void counter and total
	*41.16	
VOID MODE	1 Q	Void-mode transaction counter and total
	*16.25	
MGR VOID	2 Q	Manager item void counter and total
	*16.25	
SBTL VOID	1 Q	Subtotal void counter and total
	*12.90	
BILL CNT	1 Q	Bill print counter
NO SALE	12 Q	No-sale (exchange) counter
***PBAL	4 Q	
G. C. COPY CNT	1 Q	Guest check copy counter
GUEST	134 Q	Guest counter

ORDER TL	*5553.51	Order total
PAID TL	*4894.71	Paid total
AVE.	*36.53	Paid total average per guest
O-P	*658.80	Order total - paid total
SCM(+)	*5100.00	Starting cash memory (+)
SCM(-)	-200.00	Starting cash memory (-)
SCM TTL	*4900.00	Starting cash memory total
***RA	3 Q	Received-on-account counter and total
	*576.00	
***RA2	1 Q	
	*600.00	
***PO	2 Q	Paid-out counter and total
	*40.00	
***PO2	1 Q	
	*200.00	
CA/CHK1	1 Q	Check cashing counter and total
	*30.00	
DEPOSIT	1 Q	Deposit (+) counter and total
	*50.00	
DEPO. (-)	1 Q	Deposit (-) counter and total
	-50.00	
CASH	118 Q	Cash counter and total
	*3601.29	
CASH2	2 Q	Cash 2 counter and total
	*11.30	
CHECK	3 Q	Check sale counter and total
	*30.15	
CHECK2	1 Q	
	*94.00	
CHECK3	1 Q	
	*56.00	
CREDIT1	4 Q	Credit 1 sale and tendering counter and total
	*17.20	
CREDIT2	2 Q	
	*12.00	
CREDIT3	7 Q	
	*32.50	
CREDIT4	1 Q	
	*19.20	
EXCH1	1 Q	Exchange 1 cash counter and total
	120.00	
DOM. CUR1	*77.40	
EXCH2	1 Q	
	30.00	
DOM. CUR2	*11.30	
EXCH3	1 Q	
	500.00	
DOM. CUR3	*95.76	
EXCH4	1 Q	
	6000.00	
DOM. CUR4	*921.37	

****CID	*9685.83	Cash in drawer
*CH ID	*258.15	Check in drawer
CA/CHK ID	*9943.98	Cash+check in drawer
CHK/CG	*7.59	Change total for check tendering

■ Department report

X1		
DEPT. /GROUP		Dept. code
D01	872.863 Q	Dept. description
DPT.01	*5365.67	Sales q'ty
	96.82%	Sales amount
D02	49.500 Q	
DPT.02	*122.08	
	2.20%	Ratio of dept. 2 sales amount to
D03	4.000 Q	"+" dept. total
DPT.03	*13.98	
	0.25%	
GROUP01	926.363 Q	Group 1 total sales q'ty
	*5501.73	Group 1 total sales amount
	99.28%	Ratio of dept. group 1 sales amount to
		"+" dept. total
D04	3.000 Q	Group 1 text
DPT.04	*20.40	
	0.37%	
GROUP03	3.000 Q	
	*20.40	
	0.37%	
D05	4.000 Q	
DPT.05	*19.60	
	0.35%	
GROUP09	4.000 Q	
	*19.60	
	0.35%	
*DEPT TL	933.363 Q	} "+" dept. counter and total
	*5541.73	
	100.00%	
D06	1.000 Q	} "-" dept. counter and total
DPT.06	*12.00	
DEPT (-)	1.000 Q	
	*12.00	
SETPLU-	-0.50	

■ Individual group total report on departments

X1		
DEPT. IND. GROUP		
D01	872.863 Q	Dept. code
DPT.01	*5365.67	Sales q'ty
D02	49.500 Q	Sales amount
DPT.02	*122.08	Dept.description
D03	4.000 Q	
DPT.03	*13.98	
GROUP01	926.363 Q	} Group 1 text/sales q'ty and total
	*5501.73	

■ Full group total report on departments

X1		
GROUP TOTAL		
GROUP01	926.363 Q	} Group 1 text/sales q'ty and total
	*5501.73	
	99.28%	
GROUP03	3.000 Q	
	*20.40	
	0.37%	
GROUP09	4.000 Q	
	*19.60	
	0.35%	
*DEPT TL	933.363 Q	
	*5541.73	
	100.00%	
DEPT (-)	1.000 Q	
	*12.00	

■ PLU/EAN report by designated range

PLU/EAN	PLU code	PLU range	Price level 1 description, sales q'ty and sales amount	Price level 2, sales q'ty and sales amount
X1	*			
PLU		00001-9999999999999		
P00001			604.800 Q	
PLU00001			*1225.67	
L2			2.000 Q	
			*4.00	
P00002			40.000 Q	
PLU00002			*2071.12	
L2			1.000 Q	
			*0.99	
P00070			2.000 Q	
PLU00070			*10.60	
L2			0.000 Q	
			*0.00	
***TOTAL			867.863 Q	
			*5182.75	
L2			3.000 Q	
			*4.99	
SETPLU-			-0.50	
SET PLU				
P00012			1.000 Q	
PLU00012			*2.20	
L2			0.000 Q	
			*0.00	
P00020			1.000 Q	
PLU00020			*2.10	
L2			0.000 Q	
			*0.00	
***TOTAL			2.000 Q	
			*4.30	
L2			0.000 Q	
			*0.00	
EAN				
5012345678900#			9.000 Q	
Item B			*27.90	
L2			0.000 Q	
			*0.00	
5087654321106#			3.000 Q	
Item M			*19.50	
L2			0.000 Q	
			*0.00	
5099887654302#			1.000 Q	
DPT.05			*7.50	
L2			0.000 Q	
			*0.00	
***TOTAL			13.000 Q	
			*54.90	
L2			0.000 Q	
			*0.00	
SETEAN-			-26.40	
SET EAN				
5045678912304#			47.000 Q	
Item C			*182.40	
L2			0.000 Q	
			*0.00	
***TOTAL			47.000 Q	
			*182.40	
L2			0.000 Q	
			*0.00	

* When you take a Z report, "Z1" is printed instead of "X1".

NOTE In case of a PLU X report only header information and range data are stored in the Electronic Journal file.

■ PLU/EAN report by associated department

X1		*
PLU/EAN BY DEPT		Description of associated dept
DPT. 02	D02	Associated dept. code
PLU		PLU code
P00005	12.250 Q	Price level 1 description, sales q'ty and sales amount
PLU00005	*61.45	
L2	0.000 Q	
	*0.00	
P00006	9.000 Q	
PLU00006	*63.03	
L2	0.000 Q	
	*0.00	
***TOTAL	21.250 Q	PLU total
	*124.48	
L2	0.000 Q	
	*0.00	
SETPLU-	-0.50	
SET PLU		
EAN		EAN code
5087654321106#	3.000 Q	
Item M	*19.50	Price level 1 description, sales q'ty and sales amount
L2	0.000 Q	
	*0.00	
***TOTAL	3.000 Q	EAN total
	*19.50	
L2	0.000 Q	
	*0.00	
SETEAN-	-26.40	
SET EAN		

■ PLU/EAN stock report

X1		
PLU/EAN STOCK		
	00001-9999999999999	Range
PLU		PLU code
P00001		Stock q'ty
PLU00001	53.000 S	
P00002		Description
PLU00002	82.000 S	
P00003		
PLU00003	97.000 S	
EAN		
4901991641875#		EAN code
Item A	21.000 S	
5012345678900#		
Item B	31.000 S	
5045678912304#		
Item C	57.000 S	
5087654321106#		
Item M	28.000 S	
5099887654302#		
DPT. 05	41.000 S	

* When you take a Z report, "Z1" is printed instead of "X1".

■ PLU/EAN zero sales report (full)

X1 PLU/EAN 0 SALES	
PLU P00004 P00011	PLU00004 PLU00011
	PLU code Description
EAN 4901991641875# Item A	
	Description EAN code

■ PLU/EAN price category report

X1 PLU CATEGORY	
	1.00- 2.00
	Price range
PLU P00001 PLU00001	
L1	604.800 Q *1225.67
L2	2.000 Q *4.00
***TOTAL	
L1	654.800 Q *1301.27
L2	2.000 Q *4.00
SETPLU-	-0.50
SET PLU	
EAN	
SETEAN-	-26.40
SET EAN 5045678912304# Item C	
L1	47.000 Q *182.40
***TOTAL	
L1	47.000 Q *182.40

■ PLU/EAN zero sales report (by dept.)

X1 PLU/EAN 0 SALES	
DPT. 01 PLU P00004	D01 PLU00004
	Description of dept. Associated dept. code
EAN 4901991641875# Item A	

Transaction report

X1		
TRANSACTION		
*DEPT TL	981.363 Q	Plus dept. total
	*5588.53	
DEPT (-)	1.000 Q	Minus dept. total
	*12.00	
(-) 2	4 Q	
	-5.02	
(-) 3	1 Q	
	-0.73	



In this report, the same transaction data as those printed in the general report are printed.

Commission sales report

X1		
COMMISSION		
COM. SAL1	*26.11	Commission sale 1 total
COM. AMT1	*0.52	
COM. SAL2	*536.21	
COM. AMT2	*16.09	
COM. SAL3	*715.26	
COM. AMT3	*35.76	
COM. SAL4	*856.21	
COM. AMT4	*102.75	
COM. SAL5	*1316.46	
COM. AMT5	*105.32	
COM. SAL6	*13686.39	
COM. AMT6	*821.18	
COM. SAL7	*1265.80	
COM. AMT7	*50.63	
COM. SAL8	*449.66	
COM. AMT8	*22.48	
COM. SAL9	*1897.71	
COM. AMT9	*113.86	
COM. TTL	*1268.59	
NON COM.	*10351.31	Non-commission sales amount
NET 1	*31100.12	

Total in drawer report

X1		
TL-ID		
EXCH1	1 Q	Exchange 1 counter
	120.00	Currency exchange 1 total
DOM. CUR1	*77.40	Domestic currency for currency exchange 1 total
EXCH2	1 Q	
	30.00	
DOM. CUR2	*11.30	
EXCH3	1 Q	
	500.00	
DOM. CUR3	*95.76	
EXCH4	1 Q	
	6000.00	
DOM. CUR4	*921.37	
****CID	*9706.23	Total in drawer
*CH ID	*258.15	Check in drawer
CA/CHK ID	*9964.38	Cash + check in drawer

■ Individual clerk report

(In case of clerk only system)

X1	*1	
IND. CLERK		Clerk code
CLK# 0001	CLERK0001	Clerk name
ORDER TL	*118382.27	Order total
COM. SAL1	*2573.58	Commission sale 1 total
COM. AMT1	*51.47	
COM. SAL2	*2257.73	
COM. AMT2	*67.73	
COM. SAL9	*1897.71	
COM. AMT9	*113.86	
COM. TTL	*1901.65	
NON COM.	*85736.62	Non-commission sales amount
PAID TL	*118325.48	Paid total
AVE.	*2465.11	Paid total average per guest
O-P	*56.79	Order total-paid total
REFUND	2 Q	Refund counter and total
	*7.48	
VOID	4 Q	Void-mode transaction counter and total
	*971.93	
VOID MODE	1 Q	Item void-mode transaction counter and total
	*10.98	
MGR VOID	3 Q	Manager item void counter and total
	*10.98	
SBTL VOID	1 Q	Subtotal item void counter and total
	*13.32	
***PBAL	11 Q	
G. C. COPY CNT	1 Q	Guest check copy counter
GUEST	48 Q	Guest counter
SCM(+)	*5100.00	Starting cash memory (+)
SCM(-)	-200.00	Starting cash memory (-)
SCM TTL	*4900.00	Starting cash memory total
***RA	2 Q	
	*106.00	
***RA2	1 Q	
	*30.00	
***PO	1 Q	
	*50.00	
***PO2	1 Q	
	*20.00	
CA/CHK1	1 Q	
	*52.00	
DEPOSIT	2 Q	Deposit (+) counter and total
	*100.00	
DEPO. (-)	1 Q	Deposit (-) counter and total
	-30.00	

■ Full clerk report

X1	
ALL CLERK	
CLK# 0001	CLERK0001



The subsequent printout occurs in the same format as in the individual clerk report from the clerk #1. In the full clerk report, the total sales of all clerks are also printed.

* When you take a Z report, "Z1" is printed instead of "X1".

*1 When you take a Z report, "Z1" is printed instead of "X1".

CASH	29 Q	Cash counter and total
	*114593.22	
CASH2	2 Q	
	*176.16	
CHECK	2 Q	Check 1 sale counter and total
	*302.00	
CHECK2	2 Q	
	*970.41	
CHECK4	1 Q	
	*140.00	
CREDIT1	3 Q	Credit 1 sale and tendering and total
	*730.36	
CREDIT2	1 Q	
	*96.52	
CREDIT3	1 Q	
	*85.24	
CREDIT4	1 Q	
	*75.21	
EXCH1	2 Q	Exchange 1 counter and total
	1086.00	
DOM. CUR1	*708.56	
EXCH2	1 Q	
	162.00	
DOM. CUR2	*68.47	
EXCH3	1 Q	
	360.00	
DOM. CUR3	*203.93	
EXCH4	2 Q	
	200.00	
DOM. CUR4	*123.61	
****CID	*119577.87	Cash in drawer
*CH ID	*1615.71	
CA/CHK ID	*121193.58	Cash + check in drawer
CHK/CG	*10.89	Change total for check tendering
GLU#2001		} Open GLU code
GLU#2002		
GLU#2003		
D01	146.000 Q	
DPT. 01	*113019.86	
D02	4.000 Q	
DPT. 02	*274.12	
D03	6.000 Q	
DPT. 03	*349.62	
D04	4.000 Q	
DPT. 04	*304.84	
D05	6.000 Q	
DPT. 05	*4092.78	
D06	5.000 Q	
DPT. 06	*341.05	

*2

*2 From here, the printing of department total by clerk will be done when "PRINT ON CLK" is set to "YES" in the department programming.

■ Individual clerk report (In case of clerk only system)

X1		*1
IND. CLERK		
CLK#0001	CLERK0001	
PAID TL	*118717.72	
AVE.	*2239.96	
O-P	*56.79	
REFUND	2 Q	
	*7.48	
VOID	4 Q	
	*971.93	
VOID MODE	1 Q	
	*10.98	
MGR VOID	3 Q	
	*10.98	
SBTL VOID	1 Q	
	*13.32	
***PBAL	11 Q	
G. C. COPY CNT	1 Q	
GUEST	53 Q	
SCM(+)	*5100.00	
SCM(-)	-200.00	
SCM TTL	*4900.00	
***RA	2 Q	
	*106.00	
***RA2	1 Q	
	*30.00	
***PO	1 Q	
	*50.00	
***PO2	1 Q	
	*20.00	
CA/CHK1	1 Q	
	*52.00	
CA/CHK2	1 Q	
	*68.30	
CA/CHK3	1 Q	
	*15.00	
CA/CHK4	1 Q	
	*68.00	
DEPOSIT	2 Q	
	*100.00	
DEPO. (-)	1 Q	
	-30.00	

CASH	33 Q	
	*114920.14	
CASH2	2 Q	
	*176.16	
CHECK	3 Q	
	*372.00	
CHECK2	2 Q	
	*970.41	
CHECK4	1 Q	
	*140.00	
CREDIT1	3 Q	
	*730.36	
CREDIT2	1 Q	
	*96.52	
CREDIT3	1 Q	
	*85.24	
CREDIT4	1 Q	
	*75.21	
EXCH1	2 Q	
	1086.00	
DOM. CUR1	*708.56	
EXCH2	1 Q	
	162.00	
DOM. CUR2	*68.47	
EXCH3	1 Q	
	360.00	
DOM. CUR3	*203.93	
EXCH4	2 Q	
	200.00	
DOM. CUR4	*123.61	
****CID	*119900.11	
*CH ID	*1685.71	
CA/CHK ID	*121585.82	
CHK/CG	*15.57	
GLU#2001		
GLU#2002		
GLU#2003		

*2

*1 When you take a Z report, "Z1" is printed instead of "X1".

*2 From here, the printing of department total by clerk will be done when "PRINT ON CLK" is set to "YES" in the department programming.

■ Individual clerk report (In case of clerk + cashier system)

X1		*1
IND. CLERK		
CLK#0001	CLERK0001	
ORDER TL		*118774.51
COM. SAL1		*2897.29
COM. AMT1		*57.95
COM. SAL2		*2257.73
COM. AMT2		*67.73
COM. SAL9		*1897.71
COM. AMT9		*113.86
COM. TTL		*1911.56
NON COM.		*85736.62
D01	151.000 Q	
DPT. 01		*113412.10
D02	4.000 Q	
DPT. 02		*274.12
D03	6.000 Q	
DPT. 03		*349.62
D04	4.000 Q	
DPT. 04		*304.84
D05	6.000 Q	
DPT. 05		*4092.78
D06	5.000 Q	
DPT. 06		*341.05
*2		

*1 When you take a Z report, "Z1" is printed instead of "X1".

*2 From here, the printing of department total by clerk will be done when "PRINT ON CLK" is set to "YES" in the department programming.

■ Full cashier report (In case of clerk + cashier system)

X1		*
ALL CASHIER		
CSR#0001	CASHIER0001	



The subsequent printout occurs in the same format as in the individual cashier report from the cashier #1. In the full cashier report, the total sales of all cashiers are also printed.

* When you take a Z report, "Z1" is printed instead of "X1".

■ Individual cashier report (In case of clerk + cashier system)

X1	
IND. CASHIER	
CSR#0001	CASHIER0001
PAID TL	*4091.29
AVE.	*78.68
O-P	*26.25
REFUND	2 Q
	*17.52
VOID	3 Q
	*13.67
VOID MODE	1 Q
	*10.98
MGR VOID	3 Q
	*10.98
SBTL VOID	1 Q
	*91.31
***PBAL	1 Q
G. C. COPY CNT	3 Q
GUEST	52 Q
SCM(+)	*1500.00
SCM(-)	-300.00
SCM TTL	*1200.00
***RA	2 Q
	*500.00
***RA2	1 Q
	*800.00
***PO	2 Q
	*300.00
***PO2	1 Q
	*500.00
CA/CHK1	2 Q
	*512.00
CA/CHK2	1 Q
	*35.00
CA/CHK3	2 Q
	*77.00
CA/CHK4	1 Q
	*57.00
DEPOSIT	2 Q
	*101.00
DEPO. (-)	1 Q
	-30.00

CASH	27 Q	*2413.87
CASH2	1 Q	*95.12
CHECK	2 Q	*8.00
CHECK2	1 Q	*80.00
CHECK3	1 Q	*86.00
CHECK4	1 Q	*60.00
CREDIT1	3 Q	*231.20
CREDIT2	3 Q	*63.85
CREDIT3	2 Q	*70.71
CREDIT4	2 Q	*159.63
EXCH1	3 Q	1370.00
DOM. CUR1	3 Q	*267.97
EXCH2	3 Q	700.00
DOM. CUR2	2 Q	*299.70
EXCH3	2 Q	173.00
DOM. CUR3	1 Q	*127.93
EXCH4	1 Q	300.00
DOM. CUR4	1 Q	*85.17
****CID		*4170.13
*CH ID		*915.00
CA/CHK ID		*5085.13
CHK/CG		*11.02

* When you take a Z report, "Z1" is printed instead of "X1".

Hourly report

X1		*
HOURLY		Time
13:00	3 Q	Transaction counter
	*60.70	Sales total
AVE.	*20.23	Average of sales amount
13:30	2 Q	
	*6.00	
AVE.	*3.00	
SUBTOTAL	5 Q	
	*66.70	
20:30	1 Q	
	*2.10	
AVE.	*2.10	
SUBTOTAL	3 Q	
	*2146.76	

* When you take a Z report, "Z1" is printed instead of "X1".

GLU report

X1		*
GLU		GLU code
	1-9999	Range
GLU#1001	0001	Clerk code
***PBAL	*220.00	PBAL
DEPOSIT	*50.00	Deposit (+) total
DEPO. (-)	-50.00	Deposit (-) total
GLU#1002	0001	
***PBAL	*119.60	
DEPOSIT	*0.00	
DEPO. (-)	*0.00	
GLU#1003	0001	
***PBAL	*152.70	
DEPOSIT	*0.00	
DEPO. (-)	*0.00	
GLU#1006T	0003	"T": This GLU code was used in the training mode.
***PBAL	*5.00	
DEPOSIT	*0.00	
DEPO. (-)	*0.00	
***TOTAL		} Total
***PBAL	*492.30	
DEPOSIT	*50.00	
DEPO. (-)	-50.00	

* When you take a Z report, "Z1" is printed instead of "X1".

■ GLU report by clerk

X1		*
GLU BY CLERK		
CLK#0001	CLERK0001	Clerk code Clerk name
GLU#1001		GLU code
***PBAL	*220.00	PBAL
DEPOSIT	*50.00	Deposit (+) total
DEPO. (-)	-50.00	Deposit (-) total
GLU#1002		
***PBAL	*119.60	
DEPOSIT	*0.00	
DEPO. (-)	*0.00	
GLU#1003		
***PBAL	*152.70	
DEPOSIT	*0.00	
DEPO. (-)	*0.00	
***TOTAL		
***PBAL	*492.30	} Total
DEPOSIT	*50.00	
DEPO. (-)	-50.00	

* When you take a Z report, "Z1" is printed instead of "X1".

■ Balance report

X1	
BALANCE	
OLD BAL.	
ORDER TL	*0.00
PAID TL	*27102.25
BALANCE	*25939.13
	*1163.12

Grand total balance of the previous day
 Order total
 Paid total
 Old balance + today's balance

■ X1/Z1 stacked report

You can print multiple X1/Z1 reports in sequence under a single transaction. In this case you need to program in advance which X1/Z1 reports should be printed. Refer to "Stacked report" under Section "Report Programming" in Chapter "Programming."

Periodic Report Sample

Your register allows you to take consolidation X and Z reports of a chosen period (the period is usually one week or month).

■ General information

The periodic reading or resetting reports are the same in format as those in the X1/Z1 report for daily sales information except mode indication (“X2” or “Z2”).

• Sample X report

X2	_____	Read symbol
DEPT. /GROUP	_____	Report title

• Sample Z report

Z2	_____	Reset symbol
	Z1 0001	Reset counter of daily total
	Z2 0001	Reset counter of periodic consolidation
GT1	*00000027169.90	} Grand totals
GT2	*00000027282.11	
GT3	-00000000112.21	
BAL	*00000001163.12	
TR	*00000000011.45	
DEPT. /GROUP	_____	Report title

The subsequent items are printed out in the same format as in the X/Z report on daily totals.

■ Daily net report

X2		
DAILY NET		
01/08	28 Q	Date
	*573.19	Guest q'ty
		Sales total
02/08	40 Q	
	*11100.66	
30/08	65 Q	
	*8769.25	
31/08	28 Q	
	*7717.00	
***TOTAL	394 Q	Guest total
	*979448.63	Net amount total

■ X2/Z2 stacked report

You can print multiple X2/Z2 reports in sequence under a single transaction. In this case you need to program in advance which X2/Z2 reports should be printed. Refer to "Stacked report" under Section "Report Programming" in Chapter "Programming."

Compulsory Cash/Check Declaration

If your register has been programmed for compulsory cash/check declaration, you must declare cash/check in drawer in advance according to the type of the declaration when you take clerk Z reports.

Use the procedure shown in “Key operation” below for this declaration.

Types of compulsory cash/check declaration

In case “Clerk only system” is applied to your machine:

- Compulsive when individual clerk resetting is taken.
- Compulsive when full clerk resetting is taken.

In case “Cashier + clerk system” is applied to your machine*

- Compulsive when individual cashier resetting is taken.
- Compulsive when full cashier resetting is taken.

NOTE *Compulsory cash/check declaration is available in the above two types. You can choose either of these. Contact your authorized SHARP dealer for details.*

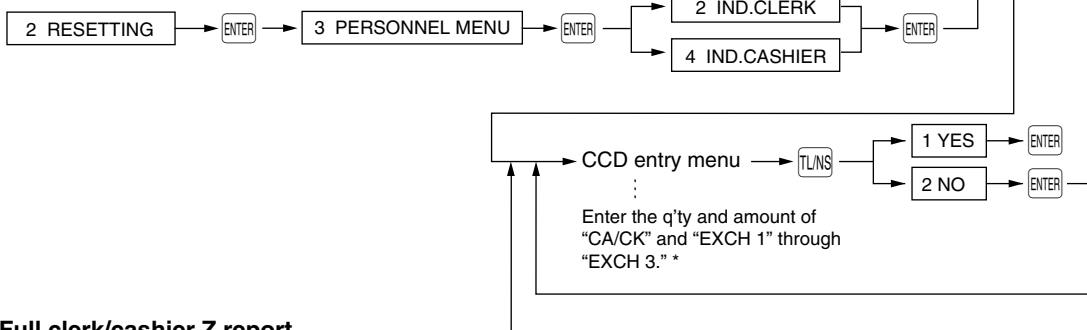
Key operation

• Individual clerk/cashier Z report

OP X/Z mode




X1/Z1 mode



• Full clerk/cashier Z report

X1/Z1 mode



* If you make a wrong entry, press the  key and make a correct entry.

• Display sample

```

  CCD ENTRY
  CA/CHK IS *0.00
  EXCH1 IS 0.00
  EXCH2 IS 0.00
  EXCH3 IS 0.00

  X121 0001
  
```

< CCD data menu window >

```

  CA/CHK IS
  QUANTITY
  AMOUNT 0.00

  X121 0001
  
```

< CA/CHK data entry window >

```

  EXCH1 IS
  QUANTITY
  AMOUNT 0.00

  X121 0001
  
```

< Exchange data entry window >

• Report sample (in case of clerk only system)

```

  *Z1*
  *CCD*
  CA/CHK IS *12418.60
  EXCH1 IS 232.00
  EXCH2 IS 193.00
  EXCH3 IS 155.00

  IND. CLERK *
  CLK#0001 CLERK001
  ORDER TL *12836.13
  COM. SAL1 *1653.06
  COM. AMT1 *33.06
  COM. SAL2 *7446.93
  COM. AMT2 *223.41
  COM. SAL3 *691.58
  COM. AMT3 *34.58
  
```

CCD entry amount

Total of difference

```

  EXCH1 2 Q
  EXCH1 IS 232.00
  CCD DIF. 0.00
  DOM. CUR1 *151.36
  EXCH2 1 Q
  EXCH2 IS 193.00
  CCD DIF. 0.00
  DOM. CUR2 *81.58
  EXCH3 1 Q
  EXCH3 IS 155.00
  CCD DIF. 0.00
  DOM. CUR3 *87.80
  EXCH4 1 Q
  DOM. CUR4 *96.79

  ****CID *11633.60
  *CH ID *785.00
  CA/CHK ID *12418.60
  CA/CHK IS *12418.60
  CCD DIF. *0.00
  DIF. TL *0.00
  CHK/CG *5.33
  
```

Cash in drawer to be obtained
 Check in drawer to be obtained
 Total of entered (declared) cash/check in drawer
 Change total for check tendering

*When you take a full clerk report, ALL CLERK is printed here.
 When you take a individual cashier report, IND.CASHIER is printed here, and when you take a all cashier report, ALL CASHIER is printed here.

9

Non-accessed EAN Deletion

You can delete EANs that had not been accessed for a certain period. You can program a period in the PGM2 mode.

Follow the procedure shown below.

Non-accessed EAN deletion

1. Select the X1/Z1 mode from the mode selection screen.
2. Select "4 EAN DELETE".
3. Select "1 READING" to take a report, or "2 DELETE" to delete non-accessed EANs.
4. When you select "2 DELETE", select you want to delete all the non-accessed EANs (1 ALL DELETE) or delete the non-accessed EANs individually (2 IND.DELETE).

NOTE *It is recommended to take a report first before executing deleting operation.*

■ Non-accessed EAN report

*1 *X1*		
EAN DELETE		
EAN code	4901991641875#	0.000 Q
Item label	Item A	*0.00
	Z2	2.000 Q
		*0.00
	5012345678900#	0.000 Q
	Item B	*0.00
	5087654321106#	0.000 Q
	Item M	*0.00
	5099887654302#	0.000 Q
	Item H	*0.00
	Z2	2.000 Q
		*15.00

*2

*1 When you select "DELETE", "Z1" is printed instead of "X1".

*2 When there is any sales data of the EAN for PLU/EAN report, the data is printed here.

When you delete the EAN in Z1 mode under this situation, the EAN data for PLU/EAN report is also deleted.

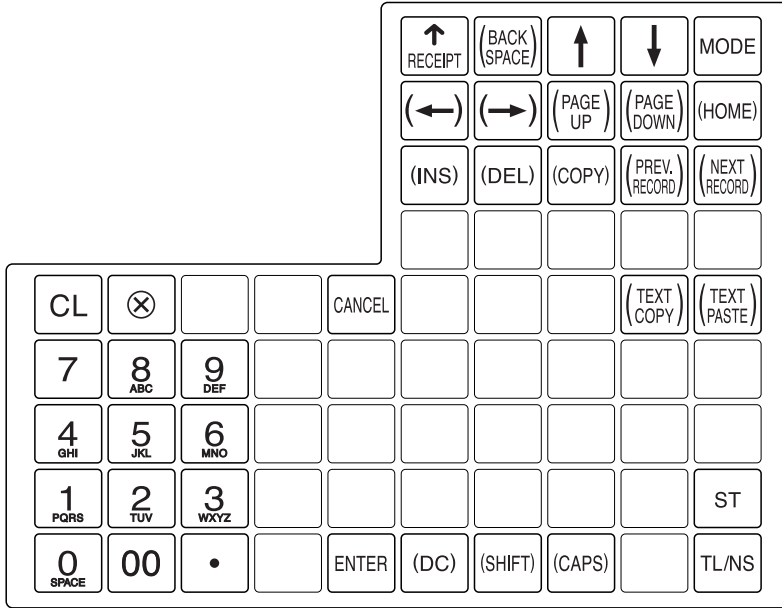
10

Prior to Programming

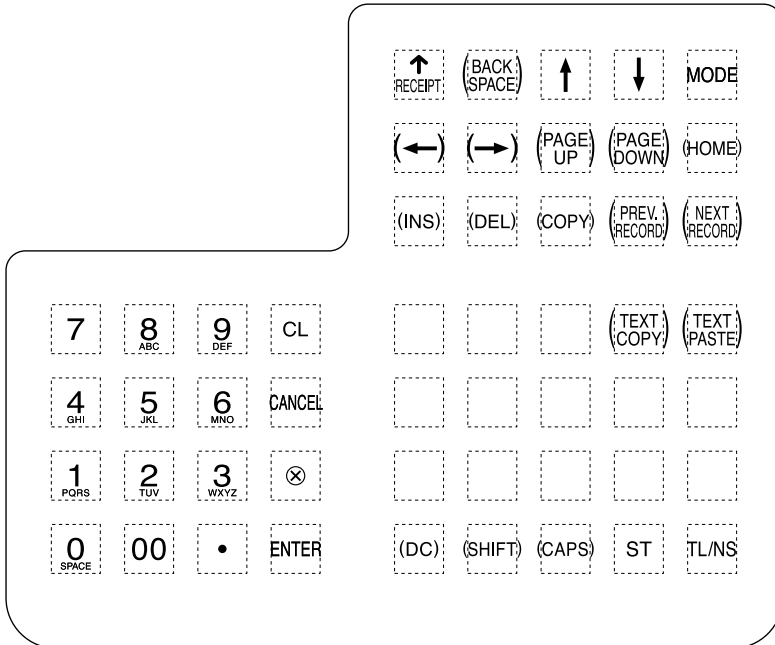
When you are in the PGM1 or PGM2 mode, the keyboard layout will be set to one of the programming layouts as shown below.

Programming Keyboard Layout

ER-A280F



ER-A280N



(SHIFT) (DC) (INS) (DEL) (BACK SPACE) : Used for programming characters. For more information about programming characters, see the section “How to Program Alphanumeric Characters.”

→ ← ↑ ↓ : Used to move the cursor.

(ENTER) : Used to program each setting.

(TLINS) : Used to finalize programming.

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

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

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

(PAGE DOWN) : Used to scroll the window to go to the next page.

(PAGE UP) : 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.

(ST) : 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 such as “DESCRIPTION,” “NAME” and “TEXT.”

■ Using character keys on the keyboard

Entering alphanumeric characters

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

To enter “A”, press the key. (→)

To enter “B”, press the key twice. (→)

To enter “C”, press the key triple. (→)

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

→ → XXX XXX: character code (3 digits)

Entering double-size characters

: 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

: 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.

Editing text

You can edit the text you have entered by deleting and/or inserting characters.

To select a text editing mode

: Toggles between the insert mode (“_”) and the overwrite (“■”) mode.

To move the cursor

or : Moves the cursor.

To delete a character or figure

: Deletes a character or figure in the cursor position.

: Backs up the cursor for deleting the character or figure at the left of the cursor. When your register is in the insert mode, this key deletes the character or the value at the cursor position.

Text copy/paste

Copy (to the buffer) : Move the cursor to the target text line to copy, and press key.

Paste (from the buffer) : Move the cursor to the target text line to paste, and press key.

■ 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:

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	ã	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	ŀ	ô	ö	ò	û	ù	ÿ	ö	Ü	ø	ƒ	θ	x	f
160 - 175	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
	á	í	ó	ú	ñ	Ñ	º	º	¿	®	€	½	¼	¡	«	»
176 - 191	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
	⋮	⋮	⋮		đ	Á	Â	À	©	ë		ñ	ƒ	ç	¥	§
192 - 207	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
	ƒ	à	æ	č	-	đ	ã	Ǻ	ë	ñ	Ǻ	š	ř	=	ó	ø
208 - 223	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
	ø	Đ	Ê	Ë	È	€	Í	Î	Ï	Ž	ƒ	■	■	ı	ì	■
224 - 239	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
	Ó	ß	Ô	Ò	Õ	Ö	µ	þ	Ɔ	Ú	Û	Ù	Ý	Ý	-	'
240 - 255	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
	-	±	=	¼	¶	§	÷	¸	°	¨	.	ı	š	ž	■	(DC)

*(DC) : Double-size character code

■ : Shaded characters can not be printed by the built-in printer (display only).

11 Programming

This chapter explains how to program various items.

Before you start programming, select the PRICE, PGM1, PGM2, AUTO KEY or SD CARD mode from the mode selection screen depending on the item you are going to program.

Basic Instructions

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

■ Programming screen

Opening screen: When you turn the mode key to PGM1 or PGM2, your display will show a programming opening screen corresponding to the mode you selected.

Mode you are in

Programming menu: Use the cursor keys or numeric key to select an option, and press the **ENTER** key.

Numeric entry and status information area

(In case of PGM2)

Code selecting screen (Dept. PLU/EAN):

Code title

Code number and its description
(In case of PLU/EAN, two lines are used for one code, upper line - code, lower line - description.)

Use the cursor keys or numeric keys to select an option, and press the **ENTER** key. (When you select the last item, the screen goes to the selected option screen without pressing the **ENTER** key.)

Numeric entry and status information area

Programming screen:

Selected menu message

Setting items:
Use the cursor keys to select an item.
To select an option, follow the instruction shown below.

Numeric entry: Use numeric keys
Character entry: Use character keys
Selective entry: Press **•** key to toggle options and press the **ENTER** key to select it, or press the **ST** key to show the option list. Use the cursor keys to move the cursor and press the **ENTER** key to select it.

■ Programming example

Procedure

```
PGM2 MODE
1 READING
2 SETTING
3 DATA CLEAR
PGM2 0001
```

ENTER ↓ ↑ CANCEL

```
SETTING
1 ARTICLE
2 DIRECT KEY
3 FUNCTIONS
4 MEDIA
5 TRAINING CLK/CSR
6 FUNCTION TEXT
7 PERSONNEL
PGM2 0001
```

ENTER ↓ ↑ CANCEL

```
ARTICLE
1 DEPARTMENT
2 PLU/EAN
3 PLU RANGE
4 SET PLU TABLE
5 LINK PLU/EAN TBL
6 PROMOTION TABLE
7 EAN NON-PLU
PGM2 0001
```

ENTER ↓ ↑ CANCEL

```
DEPARTMENT
01 DPT.01
02 DPT.02
03 DPT.03
04 DPT.04
05 DPT.05
06 DPT.06
PGM2 0001
```

ENTER ↓ ↑ CANCEL

The following example shows how to program 2.00 for the unit price, “ABCDE” for the description, and “taxable 2 yes” for department 1.

1. In the PGM2 MODE screen, select “2 SETTING” by using the or key and press the key.
 - The SETTING screen will appear.

NOTE

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

2. Select “1 ARTICLE”
 - The ARTICLE 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 key.

To return to the previous page, press the key.

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

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

```

01
PRICE          200
TEXT
GROUP No.     01
ENTRY TYPE    OPEN&PRESET
COMMISSION#   0
SALES TYPE    NORMAL
PRINT ON CLK  YES
HALO          18
PGM2         0001

```

ENTER ↓ ↑ CANCEL

```

01
PRICE          2.00
TEXT  ABCDE_
GROUP No.     01
ENTRY TYPE    OPEN&PRESET
COMMISSION#   0
SALES TYPE    NORMAL
PRINT ON CLK  YES
HALO          18
PGM2         a 0001

```

(PAGE DOWN) ↓ ↑ (PAGE UP)

```

01
VMP No.      ▲
TAXABLE1     NO
TAXABLE2     YES
TAXABLE3     NO
TAXABLE4     NO
TAXABLE5     NO
TAXABLE6     NO
AGE VERIFY   NO
PGM2         0001

```

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, then press the **ENTER** key. → **Numeric entry**
- Move the cursor to “TEXT,” enter “ABCDE” by using character keys, then press the **ENTER** key. → **Character entry**

If you want to clear setting, press the **CL** key before you press the **ENTER** key.

6. Press the **(PAGE DOWN)** key to go to the next page of the “01” window, then program the machine to set “taxable 2” as follows:
- Move the cursor to “TAXABLE 2,” press the **•** key to select “YES,” then press the **ENTER** key. → **Selective entry**

NOTE

The **•** key toggles between two options as follows:
 NO→YES→NO→....
 Pressing the **ST** key displays all pertinent options.

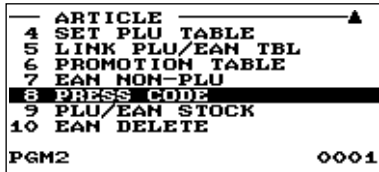
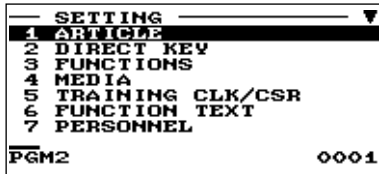
7. Select one of the following actions:
- To cancel the programming, press the **CANCEL** key. Select “1 YES” in the “ARE YOU SURE ?” window.
 - To finalize the programming, press the **TRANS** key, then press the **CANCEL** key. You will return to the “DEPT” window.
 - To program for the following department, press the **(NEXT RECORD)** key. The “02” window will appear. To return to the “01” window, press the **(PREV RECORD)** key.

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

Article Programming

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

Procedure



The screen continues.

1. In the SETTING window, select "1 ARTICLE".

- The ARTICLE window will appear.

2. Select any option from the following options list.

- | | |
|---------------------|------------------------------|
| 1 DEPARTMENT: | Departments |
| 2 PLU/EAN: | PLUs/EANs |
| 3 PLU RANGE: | A range of PLUs/EANs |
| 4 SET PLU TABLE: | Set PLU table |
| 5 LINK PLU/EAN TBL: | Link PLU/EAN table |
| 6 PROMOTION TABLE: | Promotion table |
| 7 EAN NON-PLU: | EAN Non-PLU type code format |
| 8 PRESS CODE: | Press code |
| 9 PLU/EAN STOCK: | PLU/EAN stock quantity |
| 10 EAN DELETE: | EAN delete |

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

- | | | |
|-----------|-----------------------|--|
| 1 ARTICLE | — 1 DEPARTMENT: | ➡ See "Department" on page 103. |
| | — 2 PLU/EAN: | ➡ See "PLU/EAN" on page 105. |
| | — 3 PLU RANGE: | ➡ See "PLU range" on page 107. |
| | — 4 SET PLU TABLE: | ➡ See "Set PLU table" on page 107. |
| | — 5 LINK PLU/EAN TBL: | ➡ See "Link PLU table (for PLU/EAN link)" on page 108. |
| | — 6 PROMOTION TABLE: | ➡ See "Promotion table" on page 109. |
| | — 7 EAN NON-PLU: | ➡ See "EAN Non-PLU code format" on page 111. |
| | — 8 PRESS CODE: | ➡ See "Press code (for EAN)" on page 112. |
| | — 9 PLU/EAN STOCK: | ➡ See "PLU/EAN stock" on page 113. |
| | — 10 EAN DELETE: | ➡ See "EAN delete" on page 113. |

■ Department

The register ER-A280F is equipped with 6 standard departments and the register ER-A280N is equipped with 12 standard departments. They can be equipped with a maximum of 99 departments.

Use the following procedure to program for departments.

Procedure

Select a pertinent dept. code from the departments list.



```

— 01 —————
PRICE          0.00
TEXT          DPT. 01
GROUP No.
ENTRY TYPE   OPEN&PRESET
COMMISSION#
SALES TYPE   NORMAL
PRINT ON CLK YES
HALO         18
PGM2        0001
  
```

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)

• GROUP No. (Use the numeric entry)

- 01-09: Plus department
- 10: Minus department
- 11: Plus hash department
- 12: Minus hash department
- 13: Plus bottle return department
- 14: Minus bottle return department

• TEXT (Use the character entry)

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

• ENTRY TYPE (Use the selective entry)

Type of unit price entry for departments

OPEN & PRES.: Open & preset

PRESET: Preset only

OPEN: Open only

INHIBIT: Inhibited

• COMMISSION# (Use the numeric entry)

Commission group number (1 through 9)

If the number “0” is entered, no commission group number will be assigned to a department.

You can assign each department to a commission group.

• SIF/SICS (Use the selective entry)

Department type selection

SIF: SIF department

SICS: SICS department

NORMAL: Department other than SIF or SICS department

• PRNT ON CLK (Use the selective entry)

YES: Prints the department sales information on the clerk report.

NO: Prints nothing on the clerk report.

• HALO (Use the numeric entry)

- You can set an upper limit amount (HALO) for each department. The limit is effective for the REG-mode operations and can be overridden in the MGR mode.

- AB is the same as $A \times 10^B$

A: Significant digit for HALO (1 through 9)

B: Number of zeros to follow the significant digit for HALO (0 through 8)

■ Department (continued)

• VMP No. (Use the numeric entry)

VMP file number for EAN (1 through 3).

If the number "0" is entered, no VMP file number is assigned.

• TAXABLE 1 through 6 (Use the selective entry)

Tax status

YES: Taxable

NO : Non-taxable

NOTE

• *The tax system of your register has been factory-set to automatic VAT1 - 6. If you desire to select any of automatic tax 1 - 6, manual VAT1 - 6, manual VAT1, manual tax 1 - 6, and the combination of the automatic VAT 1 - 3 and the automatic tax 4 - 6, contact your authorized SHARP dealer.*

• *When the combination of the automatic VAT1 - 3 and automatic tax 4 - 6 system is selected, one of the taxable 1 - 3 can be selected in combination with taxable 4 - 6.*

• AGE VERIFY (Use the selective entry)

Age verification function

YES: Enables the age verification function.

NO: Disables the age verification function.

■ PLU/EAN

NOTE

- In this manual, the word “EAN” represents EAN (European Article Number) and UPC (Universal Product Code).
- With regard to the EAN codes applicable to this register, please refer to the chapter 12.

Procedure

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



```

- 00001
DEPT CODE          PLU00001
TEXT
SIGN              +
PRICE1            1.91
PRICE2            2.00
BASE QTY          0
MENU TYPE        NORMAL
SET#/LINK#       00
PGM2              0001
  
```

The screen continues.

Program each item as follows:

• DEPT. CODE (Use the numeric entry)

Department code to be associated with the entered PLU/EAN (01 through 99)

When a PLU/EAN is associated with a department, the following functions of the PLU/EAN depend on the programming for the department.

- Grouping (group 1 through 17)
- Item validation print compulsory/non-compulsory
- Single item cash sale/Single item finalize
- HALO (only for subdepartments)

• TEXT (Use the character entry)

Description for a PLU/EAN. Up to 16 characters can be entered. (Default text: PLUxxxxx (PLU)/ space (EAN))

• SIGN (Use the selective entry)

- + : Plus PLU/EAN
- : Minus PLU/EAN

The function of every PLU/EAN varies according to the combination of its sign and the sign of its associated department as follows:

Department: + + } Serves as a normal plus PLU/EAN.
 PLU/EAN: + + }

Department: - - } Serves as a normal minus PLU/EAN.
 PLU/EAN: - - }

Department: + - } Accepts store coupon entries, but not split-pricing entries.
 PLU/EAN: - - }

Department: - + } Not valid; not accepted
 PLU/EAN: + + }

• PRICE 1 or 2 (Use the numeric entry)

Unit price of each price level (max. 8 digits)

• BASE QTY (Use the numeric entry)

Base quantity for each PLU/EAN that should be applied only to split-pricing entries (max. 2 digits: 0 to 99)

■ PLU/EAN (continued)

• MENU TYPE (Use the selective entry)

PLU/EAN menu type selection

SET: Set PLU/EAN

LINK: Link PLU/EAN

NORMAL: Normal PLU/EAN

• SET#/LINK# (Use the numeric entry)

Table number for set PLU/EANs/ link PLUs (1 through 99)

• COMMISSION# (Use the numeric entry)

You can assign a PLU/EAN to a commission group (1 through 9).

If the number "0" is entered, no commission group number will be assigned to a PLU/EAN.

• ENTRY TYPE (Use the selective entry)

Mode parameter

OPEN: Open price only

INHIBIT: Inhibited

OPEN&PRES.: Open price and preset price

PRESET: Preset price only

NOTE For EAN, it is fixed to "PRESET".

• TAXABLE 1 through 6 (Use the selective entry)

YES: Makes the PLU/EAN taxable.

NO: Makes the PLU/EAN non-taxable.

NOTE

- The tax system of your register has been factory-set to automatic VAT1 - 6. If you desire to select any of automatic tax 1 - 6, manual VAT1 - 6, manual VAT1, manual tax 1 - 6, and the combination of the automatic VAT1 - 3 and the automatic tax 4 - 6, contact your authorized SHARP dealer.
- When the combination of the automatic VAT1 - 3 and automatic tax 4 - 6 system is selected, one of the taxable 1 - 3 can be selected in combination with taxable 4 - 6.
- A PLU/EAN not programmed for any of these tax status is registered depending on the tax status of the department which the PLU/EAN belongs to.

• AGE VERIFY (Use the selective entry)

Age verification function

YES: Enables the age verification function.

NO: Disables the age verification function.

• NON-ACCESS (Use the selective entry)

NON DEL.: Not delete non-accessed EANs by Z1 report.

DEL. BY Z: Delete non-accessed EANs by Z1 report.

NOTE For PLU, it is fixed to "NON DEL.".

■ PLU range

You can program PLUs in the designated range.

Procedure

```

----- PLU RANGE -----
START                                00000
END                                  00000
OPERATION  NEW & MAINTEN.
PGM2                                0001
  
```



```

----- 00001-00020 -----
DEPT CODE                            01
TEXT
SIGN
PRICE1
PRICE2
BASE QTY
MENU TYPE
SET*/LINK*
PGM2                                0001
  
```

The screen continues in the same format as those screens shown in section “PLU/EAN”.

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)**
 - MAINTEN.: Enables you to change the setting you have programmed.
 - NEW&MAINTEN.: 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.
 - DELETE: Enables you to delete a specified range of PLUs.

■ Set PLU table

When you want to make some deduction for set sellings, set PLU should be specified, a PLU (set PLU) can have a maximum of 5 tied PLUs.

Procedure

```

----- SET PLU TABLE -----
--- NOTHING ---
PGM2                                0001
  
```



Selected
set PLU
table no. →



```

----- 01 -----
SET PLU #1                            00000
SET PLU #2                            00000
SET PLU #3                            00000
SET PLU #4                            00000
SET PLU #5                            00000
PGM2                                0001
  
```

Program each item as follows:

- **SET PLU (Use the numeric entry)**
Set PLU number (1 through 15)
- **SET PLU #X**
Enter tied PLU codes (max. 5 PLUs).
- **PRICE (Use the numeric entry)**
Enter the unit price of each set PLU. (max. 6 digits)

NOTE

- *PLU codes should be defined before programming a combo meal.*
- *If the key is pressed on the table number selection menu, the set PLU table in the cursor position will be deleted.*

■ Link PLU table (for PLU/EAN link)

It is possible to link PLUs (linked PLUs) with a PLU or EAN (link PLU/EAN) so that with a single key depression of the link PLU or EAN key. However, the number of linked PLUs is a maximum of 30.

Procedure

```
— LINK PLU/EAN TBL —
— NOTHING —
PGM2 0001
```

Selected
link PLU
table no.



→ [ENTER]



```
01
ITEM #1 ██████████ 00000
ITEM #2 00000
ITEM #3 00000
ITEM #4 00000
ITEM #5 00000
ITEM #6 00000
ITEM #7 00000
ITEM #8 00000
PGM2 0001
```

The screen continues.

Program each item as follows:

- **LINK PLU TABLE (Use the numeric entry)**
Link PLU table number (1 through 15)
- **LINK PLU #XX**
Enter linked PLU codes (max. 30 PLUs).

NOTE

- *PLU codes should be defined before programming a link PLU table.*
- *If the [DEL] key is pressed on the table number selection menu, the selected table will be deleted.*

■ Promotion table

There are two types of promotion tables: a global type and an individual type. If you want to change the type, select the type in the “BASIC PRESET” window.

< Global type/Individual type selection >

Procedure

```

  — PROMOTION TABLE —
  --- NOTHING ---
  PGM2                                0001
  
```

Selected
promotion
table number



```

  — SELECT OPERATION —
  1 BASIC PRESET
  2 OBJECTED ITEM
  3 PROMOTION WAY
  PGM2                                0001
  
```

Selected
“BASIC
PRESET”



```

  — BASIC PRESET —
  TEXT                                GLOBAL
  TYPE
  PGM2                                A 0001
  
```

Program each item as follows:

- **PROMOTION TABLE (Use the numeric entry)**

Promotion table number (1 through 30)

- **BASIC PRESET job**

To program the text and Global/Individual selection.

- **OBJECTED ITEM job**

To program the objected item.

- **PROMOTION WAY job**

To program the detail data.

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

Description for each promotion table (max. 12 characters)

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

GLOBAL: Global type

INDIVIDUAL: Individual type

< Objected item programming >

Procedure

Select "OBJECTED ITEM" in the job selection window, and press the **ENTER** key.

OBJECTED ITEM		
ITEM #1		00000
ITEM #2		00000
ITEM #3		00000
ITEM #4		00000
ITEM #5		00000
ITEM #6		00000
ITEM #7		00000
ITEM #8		00000
PGM2		0001

- **ITEM #1 through ITEM #10 (Use the numeric entry)**
Enter promotion PLU/EAN codes.

The screen continues.

< Detail data programming >

Procedure

Select "PROMOTION WAY" in the job selection window, and press the **ENTER** key.

< GLOBAL type >

PROMOTION WAY		
WAY	AMOUNT DISC.	0.00
AMOUNT DISC.		0.00
TRIP LEVEL		00
PGM2		0001

- **WAY (Use the selective entry)**
Select the promotion way.
AMOUNT DISC.: Amount discount
% DISCOUNT: % discount
FREE ITEM: Free item

- **AMOUNT DISC. (Use the numeric entry)**
Discount amount (max. 8 digits)

- **% DISCOUNT (Use the numeric entry)**
% discount rate (0.00% to 100.00%)

- **FREE ITEM (Use the numeric entry)**
Free item PLU/EAN code

< INDIVIDUAL type >

PROMOTION WAY		
WAY	AMOUNT DISC.	0.00
AMOUNT DISC.		0.00
TRIP LEVEL1		00
TRIP LEVEL2		00
TRIP LEVEL3		00
TRIP LEVEL4		00
PGM2		0001

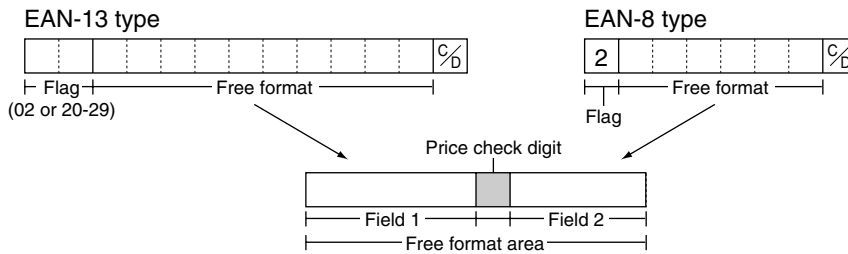
- **TRIP LEVEL (Use the numeric entry) < for GLOBAL type >**
Trip level for discount (satisfying count of entered item)

- **TRIP LEVEL1 through 10 (Use the numeric entry) < for INDIVIDUAL type >**

Trip level for discount (satisfying count of entered item) for each promotion PLU/EAN (max. 2 digits)

The screen continues.

■ EAN Non-PLU code format



Procedure

Select an arbitrary number, or a pertinent EAN TYPE OF CODE & SYSTEM CODE you set.



```

— EAN NON-PLU —
01 EAN13 20
02 EAN13 02
03 INHIBIT
04 INHIBIT
05 INHIBIT
06 INHIBIT
07 INHIBIT
PGM2                0001
  
```

The screen continues.

Program each item as follows:

- **TYPE OF CODE (Use the selective entry)**

EAN-8: EAN-8 format code (consisting of 8 digits)
 EAN-13 (UPC-A): EAN-13 format code (consisting of 13 digits)

- **SYSTEM CODE (Use the numeric entry)**

System code (i.e. flag code): EAN-8: 1 digit, EAN-13: 2 digits

NOTE

ISBN/ISSN and press code are always used the fixed format even if code, 37, 43, 78, 98, or 97 is entered.

- **LENGTH FLD#1 (Use the numeric entry)**

Length of field 1 (number of digits): 0 to 9

- **LENGTH FLD#2 (Use the numeric entry)**

Length of field 2 (number of digits): 0 to 9

- **FLD#1 DATA**

Meaning of field 1: It is fixed to FREE.

- **FLD#2 DATA (Use the selective entry)**

Meaning of field 2
 QUANTITY: Quantity
 PRICE: Price

- **CHECK DIGIT (Use the selective entry)**

Price check digit
 YES: Use the price check digit
 NO: Not use the price check digit

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

TAB or decimal point of field: 3/2/1/0

■ Press code (for EAN)

Your register allows to program the press code format.

Procedure

```
----- PRESS CODE -----  
1 GERMAN TYPE1  
2 U.K.  
3 FRENCH  
4 SWEDEN  
5 GERMAN TYPE2  
  
PGM2 0001
```



```
----- GERMAN TYPE1 -----  
TYPE OF CODE  NORMAL  
PRICE          ENCODED  
LABEL TYPE     ARTICLE  
  
PGM2 0001
```

Program each item as follows:

• TABLE NUMBER (1 to 5) (Use the selective entry)

- 1: GERMAN TYPE1 (prefix code: 434/439)
- 2: U.K. (prefix code: 988/989)
- 3: FRANCE (prefix code: 378/379)
- 4: SWEDEN (prefix code: 7388)
- 5: GERMAN TYPE2 (prefix code: 414/419)

• TYPE OF CODE (Use the selective entry)

NORMAL: Normal EAN
PRESS: Press code

• PRICE (Use the selective entry)

Price entry method for press code (This setting is valid only when PRESS CODE is set for TYPE OF CODE.)

PRESET: Using the EAN preset price
ENCODED: Using the encoded price
COMPULSORY: Compulsory entry

• LABEL TYPE (Use the selective entry)

Label of record in EAN file (This setting is valid only when PRESS CODE is set for TYPE OF CODE.)

ARTICLE: Prefix + article code

Select this option when you want to summarize the sales of items having press codes by each item.

PREFIX: Prefix only

Select this option when you want to summarize the sales of items having press codes by category.

■ PLU/EAN stock

You can assign a stock quantity to each PLU/EAN code.
Shown below is an example of selecting "1 OVER WRITE."

Procedure

```

----- PLU/EAN STOCK -----
1 OVERWRITE
2 ADD
3 SUBTRACT

PGM2                                0001
  
```



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



```

----- 00001 -----
CURRENT          0.000
NEW STOCK       0.000

PGM2                                0001
  
```

After selecting "1 OVER WRITE," select a pertinent PLU/EAN code. Then the next screen will appear to show the following items:

- **CURRENT ST**

The current stock is displayed.

- **NEW STOCK (Use the numeric entry)**

Enter a new stock quantity (max. 7 digits: 1 to 9999.999(9999999))

NOTE

- If you need to add or subtract a stock quantity to or from the current stock quantity, select "2 ADD" or "3 SUB" and enter a value to be added or subtracted.
- You cannot enter any values for the item marked with "!".
- The entry of a new stock value will update to the PLU/EAN stock counter.

■ EAN delete

You can delete the EAN codes which have not been accessed during the period you set in this program when you execute the delete job in EAN DELETE in X1/Z1 mode.

Procedure

```

----- EAN DELETE -----
PERIOD(DAY)          99

PGM2                                0001
  
```

Program each item as follows:

- **PERIOD (DAY) (Use the numeric entry)**

Enter the EAN record delete period: 01 to 99 (00: Not delete by the non-accessed deleting job)

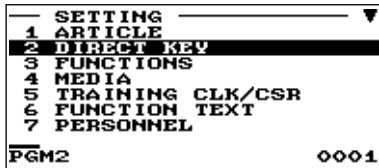
Direct Key Programming

Use the following procedure to select direct-key programming.

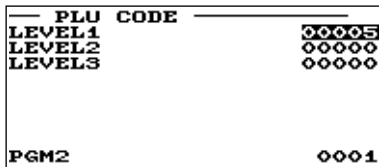
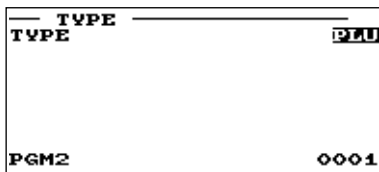
Direct key

You can assign departments and PLUs directly to the keyboard. In the case of PLUs, you may assign up to 3 levels to be accessed directly on the keyboard. For key no. positions, refer to the illustration shown below.

Procedure



Press the key on the keyboard.



In the case of selecting "DIRECT PLU"

• TYPE (Use the selective entry)

- PLU: Assigns the key as a direct PLU key.
- DEPT: Assigns the key as a direct department key.
- INHIBIT: Non-use

NOTE

- You can also select a direct PLU key by pressing the corresponding key when the PLU has been assigned directly on the keyboard instead of selecting the key from the menu.
- When selecting a department, the screen on which a department code is to be entered (the message "DEPT. CODE") will appear.
- LEVEL1 through 3 (Use the numeric entry)
Enter a PLU code for each level. For example, if you want to use this key as PLU code 1 (level 1) and PLU code 101 (level 2), enter 1 for "LEVEL1" and 101 for "LEVEL2."

Key numbers
(ER-A280F)

				33	41	50	59	
				31	39	48	57	
				30	38	47	56	
				29	37	46	55	
				28	36	45	54	
				27	35	44	53	
				26	34	43	52	

(ER-A280N)

	20	26	33		
	19	25	32		
	18	24	31		
	17	23	30		

▒ : Departments and PLUs programmable area

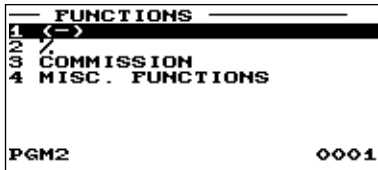
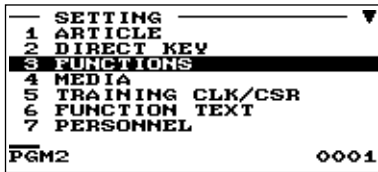
NOTE

- You can assign departments and PLUs only the "Departments and PLUs programmable area" shown above.
- You cannot assign a department or a PLU to the position to which a function key has been assigned.

Functional Programming

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

Procedure



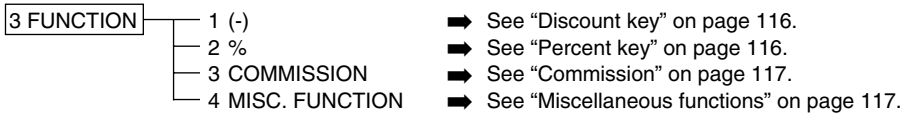
The screen continues.

1. In the SETTING window, select "3 FUNCTIONS".
 - The FUNCTIONS window will appear.

2. Select any option from the following options list.

- | | |
|--------------------|-------------------------|
| 1 (-): | Discount key |
| 2 %: | Percent key |
| 3 COMMISSION: | Commission |
| 4 MISC. FUNCTIONS: | Miscellaneous functions |
| | Deposit, Deposit(-), |
| | RA, RA2, PO, PO2, |
| | CID, CHK/CG |

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



■ Discount key (⊖1 through ⊖4)

Procedure

Select a pertinent discount key from the discount keys list.



```

<  > 1  _____  -0.00
AMOUNT  _____
TEXT    _____
SIGN    _____
HALO    _____  18
ENTRY  TYPE          ITEM(-)
PGM2                                0001
  
```

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 each discount key.
-: Minus amount (discount)
+: Plus amount (premium)
- **HALO (High Amount Lockout) (Use the numeric entry)**
A: Significant digit for HALO (1 through 9)
B: Number of zeros to follow the significant digit for HALO (0 through 8)
AB is the same as $A \times 10^B$.
- **ENTRY TYPE (Use the selective entry)**
ITEM(-): Item (-)
SBTL(-): Subtotal (-)

■ Percent key (⊖1 through ⊖4)

Procedure

Select a pertinent percent key from the percent keys list.



```

<  > 1  _____  -0.00%
RATE    _____
TEXT    _____
SIGN    _____
/HALO   _____  100.00%
ENTRY  TYPE          SBTL%
PGM2                                0001
  
```

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.
-: Minus (discount)
+: Plus (premium)
- **%HALO (High Amount Lockout) (Use the numeric entry)**
HALO (High Amount Lockout) for the percent key (0.00 to 100.00)
- **ENTRY TYPE (Use the selective entry)**
ITEM%: Item %
SBTL%: Subtotal %

■ Commission

Procedure

Select a pertinent commission no. from the commission list.



```

COM.SAL1
RATE          0.000%
TEXT          COM.SAL1

PGM2                0001
  
```

Program each item as follows:

- **RATE (Use the numeric entry)**
Percent rate (0.000 to 99.999)
- **TEXT (Use the character entry)**
Description for the commission. Up to 12 characters can be entered.

■ Miscellaneous functions

Use the following procedure to select any function in the miscellaneous function group:

Procedure

```

FUNCTIONS
1 <->
2 /
3 COMMISSION
4 MISC. FUNCTIONS

PGM2                0001
  
```



```

MISC. FUNCTIONS
1 DEPOSIT
2 DEPO. <->
3 ***RA
4 ***RA2
5 ***PO
6 ***PO2
7 CID

PGM2                0001
  
```

The screen continues.

1. In the FUNCTIONS window, select "4 MISC. FUNCTIONS".
 - The MISC. FUNCTIONS window will appear.

2. Select any function from the following functions list.

1 DEPOSIT	Deposit
2 DEPO. (-)	Deposit (-)
3 ***RA	RA
4 ***RA2	RA2
5 ***PO	PO
6 ***PO2	PO2
7 CID	Cash in drawer
8 CHK/CG	Check change

■ Deposit

Procedure

Select a pertinent deposit key from the deposit keys list.



```
DEPOSIT
-----
HALO          DEPOSIT
TEXT          [F8]
              DEPOSIT

PGM2                0001
```

Program each item as follows:

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

A: Significant digit for HALO (1 through 9)

B: Number of zeros to follow the significant digit for HALO (0 through 8)

AB is the same as $A \times 10^B$.

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

Description for the deposit. Up to 12 characters can be entered.

■ RA/RA2

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

Procedure

Select a pertinent received-on-account key from the RA keys list.



```
***RA
-----
HALO          ***RA
TEXT          [F8]
              ***RA

PGM2                0001
```

Program each item as follows:

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

A: Significant digit for HALO (1 through 9)

B: Number of zeros to follow the significant digit for HALO (0 through 8)

AB is the same as $A \times 10^B$.

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

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

■ PO/PO2

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

Procedure

Select a pertinent paid-out key from the PO keys list.



```
***PO
-----
HALO          ***PO
TEXT          [F8]
              ***PO

PGM2                0001
```

Program each item as follows:

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

A: Significant digit for HALO (1 through 9)

B: Number of zeros to follow the significant digit for HALO (0 through 8)

AB is the same as $A \times 10^B$.

- **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

```
— CID —
TEXT ██████████ *****CID
HALO ██████████ 99999999.99

PGM2          A          0001
```

Program each item as follows:

- **TEXT (Use the character entry)**
Description for the cash in drawer. Up to 12 characters can be entered.
- **HALO (High Amount Lockout) (Use the numeric entry)**
Limit amount: 0 to 99999999.99

■ Check change

You can program the description and the upper limit amounts for check change.

Procedure

```
— CHK/CG —
TEXT ██████████ ██████████ CHK/CG
HALO ██████████ 999999.99

PGM2          A          0001
```

Program each item as follows:

- **TEXT (Use the character entry)**
Description for check change. Up to 12 characters can be entered.
- **HALO (High Amount Lockout) (Use the numeric entry)**
Limit amount: 0 to 999999.99

Media Key Programming

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

Procedure

```
SETTING
1 ARTICLE
2 DIRECT KEY
3 FUNCTIONS
4 MEDIA
5 TRAINING CLK/CSR
6 FUNCTION TEXT
7 PERSONNEL
PGM2 0001
```



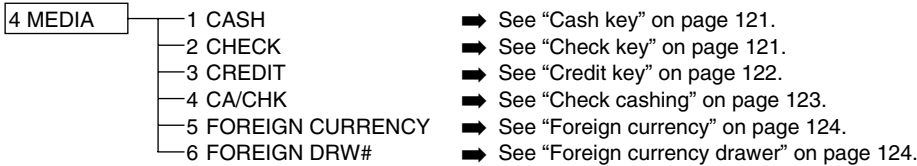
```
MEDIA
1 CASH
2 CHECK
3 CREDIT
4 CA/CHK
5 FOREIGN CURRENCY
6 FOREIGN DRW#
PGM2 0001
```

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

2. Select any option from the following options list.

1 CASH	Cash key
2 CHECK	Check key
3 CREDIT	Credit key
4 CA/CHK	Check cashing
5 FOREIGN CURRENCY	Foreign currency
6 FOREIGN DRW#	Foreign currency drawer

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



■ Cash key (Cash, Cash2)

Procedure

Select a pertinent cash key from the cash keys list.



CASH		CASH
TEXT		
HALO		18
BILL PRINT	NON-COMPUL.	
FOOTER PRINT		NO
NON-ADD#	NON-COMPUL.	
AMOUNT ENTRY	NON-COMPUL.	
DRAWER OPEN		YES
PGM2	A	0001

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)**
AB is the same as $A \times 10^B$.
A: Significant digit (1 through 9)
B: Number of zeros to follow the significant digit (0 through 8)
You can set AB at 18 for no limitation.
- **BILL PRINT (Use the selective entry)**
COMPULSORY: Makes bill printing compulsory.
NON-COMPUL.: Makes bill printing non-compulsory.

- **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.

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

You can enforce the non-add code entry when a cash entry is accepted.

COMPULSORY: Compulsory non-add code entry

NON-COMPUL.: Non-compulsory non-add code entry

- **AMOUNT ENTRY (Use the selective entry)**

COMPULSORY: Compulsory amount tendered entry

NON-COMPUL.: Non-compulsory amount tendered entry

- **DRAWER OPEN (Use the selective entry)**

You can program each cash key to open the drawer.

YES: Opens the drawer.

NO: Disables the drawer opening.

■ Check key (Check1 through Check4)

Procedure

Select a pertinent check key from the check keys list.



CHECK		CHECK
TEXT		
HALO		18
BILL PRINT	NON-COMPUL.	
FOOTER PRINT		NO
AMOUNT ENTRY	NON-COMPUL.	
NON-ADD#	NON-COMPUL.	
EFT	NON-COMPUL.	
DRAWER OPEN		YES
PGM2	A	0001

The screen continues.

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)**
AB is the same as $A \times 10^B$.
A: Significant digit (1 through 9)
B: Number of zeros to follow the significant digit (0 through 8)
You can set AB at 18 for no limitation.
- **BILL PRINT (Use the selective entry)**
COMPULSORY: Compulsory bill printing
NON-COMPUL.: Non-compulsory bill printing
- **FOOTER PRINT (Use the selective entry)**
YES: Enables footer printing on the receipt.
NO: Disables footer printing on the receipt.

■ Check key (continued)

- **AMOUNT ENTRY (Use the selective entry)**
 COMPULSORY: Compulsory amount tendered entry
 NON-COMPUL.: Non-compulsory amount tendered entry
- **NON-ADD# (Use the selective entry)**
 COMPULSORY: Compulsory non-add code entry
 NON-COMPUL.: Non-compulsory non-add code entry
- **EFT (Use the selective entry)**
 COMPULSORY: Makes EFT function compulsory.
 NON-COMPUL.: Makes EFT function non-compulsory.
- **DRAWER OPEN (Use the selective entry)**
 YES: Opens the drawer.
 NO: Disables the drawer opening.
- **CHANGE DUE (Use the selective entry)**
 Either change enable or disable can be selected for each check key.
 DISABLE: Disables change calculation.
 ENABLE: Enables change calculation.

■ Credit key (Credit1 through Credit4)

Procedure

Select a pertinent credit key from the credit keys list.



```

CREDIT1  CREDIT1
TEXT      18
HALO      18
BILL PRINT NON-COMPUL
FOOTER PRINT NO
AMOUNT ENTRY INHIBITED
NON-ADD#  NON-COMPUL
EFT       NON-COMPUL
DRAWER OPEN YES
PGM2     A      0001
  
```

The screen continues.

Program each item as follows:

- **TEXT (Use the character entry)**
 Description for the credit key. Up to 12 characters can be entered.
- **HALO (High Amount Lockout) (Use the numeric entry)**
 AB is the same as $A \times 10^B$.
 A: Significant digit (1 through 9)
 B: Number of zeros to follow the significant digit (0 through 8)
 You can set AB at 18 for no limitation.
- **BILL PRINT (Use the selective entry)**
 COMPULSORY: Compulsory bill printing
 NON-COMPUL.: Non-compulsory bill printing
- **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 credit key is used.
 YES: Enables footer printing on the receipt.
 NO: Disables footer printing on the receipt.
- **AMOUNT ENTRY (Use the selective entry)**
 COMPULSORY: Makes amount tendered entry compulsory.
 INHIBITED: Inhibits amount tendered entry.
- **NON-ADD# (Use the selective entry)**
 COMPULSORY: Compulsory non-add code entry
 NON-COMPUL.: Non-compulsory non-add code entry

■ Credit key (continued)

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

COMPULSORY: Makes EFT function compulsory.

NON-COMPUL.: Makes EFT function non-compulsory.

- **DRAWER OPEN (Use the selective entry)**

YES: Opens the drawer.

NO: Disables the drawer opening.

- **CHANGE DUE (Use the selective entry)**

DISABLE: Disables change calculation.

ENABLE: Enables change calculation.

■ Check cashing (Check1 through Check4)

You can program the description and the upper limit amounts for check cashing.

Procedure

Select a pertinent check cashing no. from the check cashing numbers list.



CA/CHK1	
TEXT	CA/CHK1
HALO	999999.99
PGM2	A 0001

Program each item as follows:

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

Description for check cashing. Up to 12 characters can be entered.

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

Limit amount: 0 to 999999.99

■ Foreign currency (Exchange1 through Exchange4)

Procedure

Select a pertinent currency exchange key from the currency exchange keys list.



```
— FOREIGN1 —  
RATE          0.000000  
TEXT          EXCH1  
TAB           2  
SYMBOL  
  
PGM2          0001
```

Program each item as follows:

- **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.
- **TAB (Use the numeric entry)**
Tabulation (0 to 3)
- **SYMBOL (Use the character entry)**
Currency descriptor. Up to 4 characters can be entered.

■ Foreign currency drawer

Procedure

Select "FOREIGN DRW#" from the media menu.



```
— FOREIGN DRW# —  
FOREIGN DRW#  NONE  
  
PGM2          0001
```

Program each item as follows:

- **FOREIGN DRW# (Use the selective entry)**
DRAWER2/DRAWER1/NONE

NOTE

The number of times of the drawer opening with the EXCHANGE(n) key will be added to the NO-SALE counter.

Training Clerk/Cashier Programming

Select "TRAINING CLK/CSR" in the SETTING window. You can set the text for the training mode title and clerks/cashiers in training.

Procedure

Program each item as follows:

```
— SETTING —
1 ARTICLE
2 DIRECT KEY
3 FUNCTIONS
4 MEDIA
5 TRAINING CLK/CSR
6 FUNCTION TEXT
7 PERSONNEL
PGM2 0001
```



```
— TRAINING CLK/CSR —
CLK/CSR CODE 0000
TITLE TEXT TRAINING
PGM2 0001
```

- **CLK/CSR CODE**

Clerk/cashier code in training (max. 4 digits)

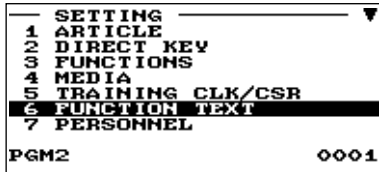
- **TITLE TEXT**

Description for the training mode title
Up to 12 characters can be entered.

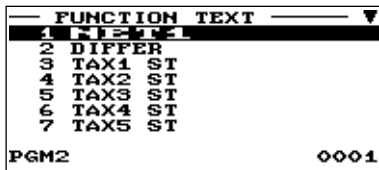
Function Text Programming

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

Procedure



To program the function text, select "FUNCTION TEXT" in the SETTING window.



Program each item as follows:

- **TEXT (Use the character entry)**
Description for each function. Up to 12 characters can be entered.

The screen continues.

No.	Function	Default text
1	Net 1	NET1
2	Difference	DIFFER
3	Taxable 1 subtotal	TAX1 ST
4	Taxable 2 subtotal	TAX2 ST
5	Taxable 3 subtotal	TAX3 ST
6	Taxable 4 subtotal	TAX4 ST
7	Taxable 5 subtotal	TAX5 ST
8	Taxable 6 subtotal	TAX6 ST
9	VAT/tax 1	VAT 1
10	VAT/tax 2	VAT 2
11	VAT/tax 3	VAT 3
12	VAT/tax 4	VAT 4
13	VAT/tax 5	VAT 5
14	VAT/tax 6	VAT 6
15	Total tax (on report)	TTL TAX
16	Net without tax (on report)	NET
17	VAT shift	VAT SFT
18	VAT/tax delete	TAX DELE
19	Net 2	NET2
20	Set PLU discount	SETPLU-
21	Set EAN discount	SETEAN-
22	Promotion discount	DISCOUNT
23	Coupon-like PLU	CP PLU
24	Refund	REFUND
25	Void	VOID

No.	Function	Default text
26	Void mode	VOID MODE
27	MGR void	MGR VOID
28	Subtotal void	SBTL VOID
29	Hash void	HASH VOID
30	Hash refund	HASH RF
31	Bill counter	BILL CNT
32	No sale	NO SALE
33	PBAL (for GLU)	***PBAL
34	NBAL (for GLU)	***NBAL
35	Starting cash memory (+)	SCM(+)
36	Starting cash memory (-)	SCM(-)
37	Guest check copy counter	G.C.COPY CNT
38	Guest (customer/transaction count)	GUEST
39	Order total	ORDER TL
40	Paid total	PAID TL
41	Average	AVE.
42	Order total - Paid total	O-P
43	Check payment for exchange 1	EX1 CHK
44	Credit payment for exchange 1	EX1 CR
45	Domestic currency 1	DOM.CUR1
46	Domestic currency 2	DOM.CUR2
47	Domestic currency 3	DOM.CUR3
48	Domestic currency 4	DOM.CUR4
49	Domestic currency 1 for check	DOM.CUR1 CHK
50	Domestic currency 1 for credit	DOM.CUR1 CR

No.	Function	Default text
51	Check in drawer	*CH ID
52	Cash/check in drawer	CA/CH ID
53	Group 1	G ROUP01
54	Group 2	G ROUP02
55	Group 3	G ROUP03
56	Group 4	G ROUP04
57	Group 5	G ROUP05
58	Group 6	G ROUP06
59	Group 7	G ROUP07
60	Group 8	G ROUP08
61	Group 9	G ROUP09
62	(+)dept. total	*DEPT TL
63	(-)dept. total	DEPT(-)
64	Hash(+) total	*HASH TL
65	Hash(-) total	HASH(-)
66	Bottle return (+) total	*BTTL TL
67	Bottle return (-) total	BTTL(-)
68	Non-commission sale	NON COM.
69	Commission amount 1	COM.AMT1
70	Commission amount 2	COM.AMT2
71	Commission amount 3	COM.AMT3
72	Commission amount 4	COM.AMT4
73	Commission amount 5	COM.AMT5
74	Commission amount 6	COM.AMT6
75	Commission amount 7	COM.AMT7
76	Commission amount 8	COM.AMT8
77	Commission amount 9	COM.AMT9
78	Commission amount total	COM.TTL
79	Cash/check is	CA/CH IS
80	Exchange 1 is	EXCH1 IS
81	Exchange 2 is	EXCH2 IS

No.	Function	Default text
82	Exchange 3 is	EXCH3 IS
83	CCD difference	CCD DIF.
84	CCD difference total	DIF. TL
85	Total	***TOTAL
86	Subtotal	SUBTOTAL
87	Old balance	OLD BAL.
88	New balance	BALANCE
89	Starting cash memory total	SCM TTL
90	Open GLU counter	OPEN GLU
91	CCD report title	CCD
92	GLU code text	GLU#
93	Non-add code text	#
94	PLU subtotal (for link PLU %)	ITEM ST
95	Sales q'ty	ITEMS
96	Merchandise subtotal	MDSE ST
97	Net 1 (Taxable 1 - VAT/tax 1)	NET 1
98	Net 2 (Taxable 2 - VAT/tax 2)	NET 2
99	Net 3 (Taxable 3 - VAT/tax 3)	NET 3
100	Net 4 (Taxable 4 - VAT/tax 4)	NET 4
101	Net 5 (Taxable 5 - VAT/tax 5)	NET 5
102	Net 6 (Taxable 6 - VAT/tax 6)	NET 6
103	Total VAT	TTL VAT
104	Difference subtotal	DIFF ST
105	Due (on display)	DUE
106	Change	CHANGE
107	Copy receipt title	COPY
108	Guest check copy title	G.C COPY
109	Guest check receipt title	BILL
110	Receipt switch	RCP SW.
111	Price change receipt title	PR.CHNG
112	Overlapped clerk remain	OVCS REMAIN

Personnel Programming

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

Procedure

```
SETTING
1 ARTICLE
2 DIRECT KEY
3 FUNCTIONS
4 MEDIA
5 TRAINING CLK/CSR
6 FUNCTION TEXT
7 PERSONNEL
PGM2 0001
```



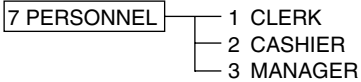
```
PERSONNEL
1 CLERK
2 CASHIER
3 MANAGER
PGM2 0001
```

1. In the SETTING window, select “7 PERSONNEL.”
 - The PERSONNEL window will appear.

2. Select any option from the following options list.

1 CLERK	Clerk
2 CASHIER	Cashier
3 MANAGER	Manager

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



- ➡ See “Clerk” on page 129.
- ➡ See “Cashier” on page 130.
- ➡ See “Manager” on page 131.

■ Clerk

Procedure

```

----- CLERK -----
0001 CLERK0001
0002 CLERK0002
0003 CLERK0003
0004 CLERK0004
0005 CLERK0005
0006 CLERK0006
0007 CLERK0007
PGM2                      0001
  
```



```

----- 0001 -----
SECRET CODE                CLERK0001
NAME                       CLERK0001
G.C. COPY                  ENABLE
VAT SHIFT                  NOT
P.SFT START                PRICE1
P.SFT END                  PRICE2
DRAWER No.                 DRAWER1
START GLU                  0001
PGM2                      0001
  
```

The screen continues.

Program each item as follows:

- **SECRET CODE (Use the numeric entry)**
Secret code (max. 4 digits: 0001 to 9999/0000)
- **NAME (Use the character entry)**
Name for the clerk. Up to 12 characters can be entered.
- **G.C. COPY (Use the selective entry)**
DISABLE: Disables guest check copy.
ENABLE: Enables guest check copy.
- **VAT SHIFT (Use the selective entry)**
STATE: Enables VAT shift entry.
NOT: Disables VAT shift entry.
- **P.SFT START (Use the selective entry)**
Price level range (start): (PRICE 1, PRICE 2)
- **P.SFT END (Use the selective entry)**
Price level range (end): (PRICE 1, PRICE 2)
- **DRAWER No. (Use the selective entry)**
DRAWER2/DRAWER1/NONE
- **START GLU (Use the numeric entry)**
Starting GLU code (1 to 9999)
- **END GLU (Use the numeric entry)**
Ending GLU code (1 to 9999)
- **PGM2 (Use the selective entry)**
DISABLE: Disables operation in the PGM2 mode.
ENABLE: Enables operation in the PGM2 mode.
- **PGM1 (Use the selective entry)**
DISABLE: Disables operation in the PGM1 mode.
ENABLE: Enables operation in the PGM1 mode.
- **X1 (Use the selective entry)**
DISABLE: Disables operation in the X1 mode.
ENABLE: Enables operation in the X1 mode.
- **Z1 (Use the selective entry)**
DISABLE: Disables operation in the Z1 mode.
ENABLE: Enables operation in the Z1 mode.
- **X2Z2 (Use the selective entry)**
DISABLE: Disables operation in the X2/Z2 mode.
ENABLE: Enables operation in the X2/Z2 mode.
- **FLASH (Use the selective entry)**
DISABLE: Disables operation in the FLASH mode.
ENABLE: Enables operation in the FLASH mode.

■ Clerk (continued)

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

DISABLE: Disables operation in the AUTO KEY mode.

ENABLE: Enables operation in the AUTO KEY mode.

- **SD CARD (Use the selective entry)**

DISABLE: Disables operation in the SD CARD mode.

ENABLE: Enables operation in the SD CARD mode.

- **Z1 IN OPX/Z (Use the selective entry)**

DISABLE: Disables resetting operation in OPX/Z mode.

ENABLE: Enables resetting operation in OPX/Z mode.

■ Cashier

Procedure

```

----- CASHIER -----
0001 CASHIER0001
-----
PGM2                      0001
  
```



```

----- 0001 -----
SECRET CODE          0000
NAME                 CASHIER0001
G.C.COPY             ENABLE
VAT SHIFT           NOT
P.SFT START         PRICE1
P.SFT END           PRICE2
DRAWER NO.          DRAWER1
PGM2                ENABLE
PGM2                0001
  
```

The screen continues.

Program each item as follows:

- **SECRET CODE (Use the numeric entry)**

Secret code (max. 4 digits: 0001 to 9999/0000)

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

Name for the cashier. Up to 12 characters can be entered.

- **G.C. COPY (Use the selective entry)**

DISABLE: Disables guest check copy.

ENABLE: Enables guest check copy.

- **VAT SHIFT (Use the selective entry)**

STATE: Enables VAT shift entry.

NOT: Disables VAT shift entry.

- **P.SFT START (Use the selective entry)**

Price level range (start): (PRICE 1, PRICE 2)

- **P.SFT END (Use the selective entry)**

Price level range (end): (PRICE 1, PRICE 2)

- **DRAWER No. (Use the selective entry)**

DRAWER2/DRAWER1/NONE

- **PGM2 (Use the selective entry)**

DISABLE: Disables operation in the PGM2 mode.

ENABLE: Enables operation in the PGM2 mode.

- **PGM1 (Use the selective entry)**

DISABLE: Disables operation in the PGM1 mode.

ENABLE: Enables operation in the PGM1 mode.

- **X1 (Use the selective entry)**

DISABLE: Disables operation in the X1 mode.

ENABLE: Enables operation in the X1 mode.

- **Z1 (Use the selective entry)**

DISABLE: Disables operation in the Z1 mode.

ENABLE: Enables operation in the Z1 mode.

■ Cashier (continued)

- **X2Z2 (Use the selective entry)**

DISABLE: Disables operation in the X2/Z2 mode.

ENABLE: Enables operation in the X2/Z2 mode.

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

DISABLE: Disables operation in the FLASH mode.

ENABLE: Enables operation in the FLASH mode.

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

DISABLE: Disables operation in the AUTO KEY mode.

ENABLE: Enables operation in the AUTO KEY mode.

- **SD CARD (Use the selective entry)**

DISABLE: Disables operation in the SD CARD mode.

ENABLE: Enables operation in the SD CARD mode.

- **Z1 IN OPX/Z (Use the selective entry)**

DISABLE: Disables resetting operation in OPX/Z mode.

ENABLE: Enables resetting operation in OPX/Z mode.

■ Manager

You can program a secret code for each manager.

Procedure



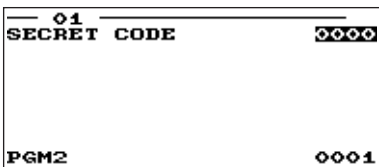
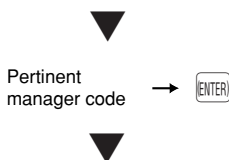
Program each item as follows:

- **MANAGER (Use the numeric entry)**

Manager code (max. 2 digits: 01 to 99)

- **SECRET CODE (Use the numeric entry)**

Secret code (max. 4 digits: 0000 to 9999)



Terminal Programming

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

Procedure

```
— SETTING —————▲▼
8 TERMINAL
9 DATE/TIME
10 OPTIONAL
11 REPORT
12 MESSAGE
13 DEVICE CONFIG
14 AUTO GENE. GLU
PGM2                      0001
```



```
— TERMINAL —————
MACHINE#                000000
CONSECUTIVE#            000000
SCREEN SAVE              02
BRIGHTNESS               1
PGM2                      0001
```

1. From the SETTING menu, select “8 TERMINAL.”
 - The TERMINAL menu 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.
 - **SCREEN SAVE (Use the numeric entry)**
Screen save mode timer (max. 2 digits: 0 to 99 minutes)
If the number “0” is entered, the register will turn the display off after 100 min., if it remains idle.
 - **BRIGHTNESS (Use the numeric entry)**
Adjustment of the LCD brightness (1 to 8)
“8” is the brightest.

Date/Time Setting

Use the following procedure to select the menu option "9 DATE/TIME":

■ Date/time

You can set the date and time for the register.

Procedure

```
— SETTING ————— ▲▼  
8  TERMINAL  
9  DATE/TIME  
10 OPTIONAL  
11 REPORT  
12 MESSAGE  
13 DEVICE CONFIG  
14 AUTO GENE. GLU  
PGM2                               0001
```



```
— DATE/TIME —————  
DATE                               01/01/2000  
TIME                               0000  
PGM2                               0001
```

Set each item as follows:

• DATE (Use the numeric entry)

Enter the day (2 digits), month (2 digits), and year (2 digits) in this sequence.

• TIME (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. Once you set the time, the internal clock unit will continue to run as long as the built-in battery pack is charged and also update the date (day, month, year) properly.

Optional Feature Selection

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

Procedure

```
SETTING
8 TERMINAL
9 DATE/TIME
10 OPTIONAL
11 REPORT
12 MESSAGE
13 DEVICE CONFIG
14 AUTO GENE. GLU
PGM2 0001
```



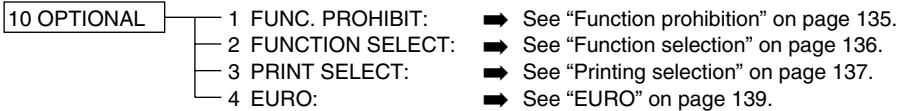
```
OPTIONAL
1 FUNC. PROHIBIT
2 FUNCTION SELECT
3 PRINT SELECT
4 EURO
PGM2 0001
```

1. In the SETTING window, select "10 OPTIONAL".
 - The OPTIONAL window will appear.

2. Select any option from the following options list.

- | | | |
|---|------------------|----------------------|
| 1 | FUNC. PROHIBIT: | Function prohibition |
| 2 | FUNCTION SELECT: | Function selection |
| 3 | PRINT SELECT: | Printing selection |
| 4 | EURO: | EURO |

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



■ Function prohibition

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

Procedure

```

----- FUNC PROHIBIT -----
OPX/Z REPORT      ENABLE
PAID OUT          PUBLIC
REFUND            PUBLIC
ISSUE ITM VD      PUBLIC
NO ISSUED VD      PUBLIC
SBTL VOID         PUBLIC
NO SALE           PUBLIC
1ST LAST VD      ENABLE
PGM2              0001
  
```

The screen continues.

Program each item as follows:

- **OPX/Z REPORT (Use the selective entry)**
 DISABLE: Disables clerk report printing in the OP X/Z mode.
 ENABLE: Enables clerk report printing in the OP X/Z mode.
- **PAID OUT (Use the selective entry)**
 LIMITED: Allowed only in the MGR mode.
 PUBLIC: Allowed in the REG and MGR modes.
- **REFUND (Use the selective entry)**
 LIMITED: Allowed only in the MGR mode.
 PUBLIC: Allowed in the REG and MGR modes.
- **ISSUE ITM VD <Issued item void>(Use the selective entry)**
 LIMITED: Allowed only in the MGR mode.
 PUBLIC: Allowed in the REG and MGR modes.
- **NO ISSUED VD <No issued item void>(Use the selective entry)**
 LIMITED: Allowed only in the MGR mode.
 PUBLIC: Allowed in the REG and MGR modes.
- **SBTL VOID <Subtotal void>(Use the selective entry)**
 LIMITED: Allowed only in the MGR mode.
 PUBLIC: Allowed in the REG and MGR modes.
- **NO SALE (Use the selective entry)**
 LIMITED: Allowed only in the MGR mode.
 PUBLIC: Allowed in the REG and MGR modes.
- **1ST LAST VD <1ST last item void>(Use the selective entry)**
 DISABLE: Disables
 ENABLE: Enables
- **EAN LEARNING (Use the selective entry)**
 DISABLE: Disables EAN learning function.
 ENABLE: Enables EAN learning function.
- **PRICE CHANGE (Use the selective entry)**
 LIMITED: Allowed only in the MGR mode.
 PUBLIC: Allowed in the REG and MGR modes.
- **PAYMENT ST=0 (Use the selective entry)**
 DISABLE: Disables payment operation when the subtotal is "0".
 ENABLE: Enables payment operation when the subtotal is "0".
- **PRT/DSP EDIT (Use the selective entry)**
 NO: All of display and print data is not edited.
 YES: Display and print data is edited.
- **DRAWER OPEN X1/X2 (Use the selective entry)**
 NOT OPEN: Disables drawer opening in the X1/X2 mode.
 OPEN: Enables drawer opening in the X1/X2 mode.
- **DRAWER OPEN Z1/Z2 (Use the selective entry)**
 NOT OPEN: Disables drawer opening in the Z1/Z2 mode.
 OPEN: Enables drawer opening in the Z1/Z2 mode.
- **DRAWER OPEN OP X/Z (Use the selective entry)**
 NOT OPEN: Disables drawer opening in the OPXZ mode.
 OPEN: Enables drawer opening in the OPXZ mode.

■ Function selection

Your register enables you to select various functional selections.

Procedure

```

— FUNCTION SELECT —
VAT SHIFT          BY SHIFT
LV. SFT MODE      PUBLIC
LV. SFT TYPE      AUTO
RETURN TO L1      RECEIPT
PR. SFT MODE      PUBLIC
PR. SFT TYPE      AUTO
RETURN TO P1      BY ITEM
T-LOG FULL        CONTINUE
PGM2              0001
  
```

The screen continues.

Program each item as follows:

- **VAT SHIFT (Use the selective entry)**
 - BY SHIFT: Allows VAT shift to be accomplished by the shift key.
 - BY CLERK: Allows VAT shift to be accomplished by a clerk.
- **LV. SFT MODE <Level shift mode> (Use the selective entry)**
 - LIMITED: Allowed only in the MGR mode.
 - PUBLIC: Allowed in the REG and MGR modes.
- **LV. SFT TYPE <Level shift type>(Use the selective entry)**
 - MANUAL: Lock shift mode
 - AUTO: Automatic return mode

- **RETURN TO L1 <Return to level 1>(Use the selective entry)**

When the PLU level shift system is set to "AUTO," the PLU level can be returned to level 1 by one of the following methods:

- RECEIPT: Returns the PLU level to level 1 by one receipt.
- BY ITEM: Returns the PLU level to level 1 by one item.

- **PR. SFT MODE <Price shift mode> (Use the selective entry)**

- LIMITED: Allowed only in the MGR mode.
- PUBLIC: Allowed in the REG and MGR modes.

- **PR. SFT TYPE <Price shift type>(Use the selective entry)**

- MANUAL: Lock shift mode
- AUTO: Automatic return mode

- **RETURN TO P1 <Return to price 1>(Use the selective entry)**

When the PLU price level shift method is set to "AUTO," the price level can be returned to price 1 by one of the following methods:

- RECEIPT: Returns the price level to price 1 by one receipt.
- BY ITEM: Returns the price level to price 1 by one item.

- **T-LOG FULL (Use the selective entry)**

Programming whether or not to lock item entry when the TLOG file is full.
CONTINUE/LOCK

- **E.J. FULL (Use the selective entry)**

Programming whether or not to lock item entry when the Electronic Journal file is full.
CONTINUE/LOCK

- **PAY FOR EX1 (Use the selective entry)**

Payment for exchange1 amount
CASH: Cash only
ALL: All media

- **EX1 CALC. (Use the selective entry)**

Exchange1 calculation method
DIVIDE: Division
MULTI.: Multiplication

- **CR IN RA/PO (Use the selective entry)**

UPDATE: Updates a credit totalizer when finalizing a received-on-account or a paid-out entry by a credit key.
NON: Does not update a credit totalizer when finalizing a received-on-account or a paid-out entry by a credit key.

■ Function selection (continued)

- **ISBN PRICE (Use the selective entry)**

Price entry after ISBN/ISSN code entry
INHIBIT/COMPULSORY

- **VMP FULL (Use the selective entry)**

VMP EAN entry when the VMP file is full
ERROR/CONTINUE

- **ADD-ON FULL (Use the selective entry)**

Entry of EAN with add-on code when the EAN ADD-ON file is full.
ERROR/CONTINUE

- **EURO NON-PLU (Use the selective entry)**

Converting the unit price of EAN NON-PLU codes (suffix code: 21, 22, 23, 27) between EURO and the local currency.
CONVERT/NO CONVERT

- **EURO CONVERT (Use the selective entry)**

Converting the unit price of EAN NON-PLU codes (all types of codes) between EURO and the local currency.
CONVERT/NO CONVERT

■ Printing selection

You can program various printing functions.

Procedure

PRINT SELECT	▼
PURCHASE NO.	NO
TIME PRINT	YES
JOURNAL SEL.	FULL
R/J-VAT/TAX	YES
R/J-TAXABLE	YES
R/J-NET	YES
BILL-VAT/TAX	YES
BILL-TAXABLE	YES
PGM2	0001

The screen continues.

Program each item as follows:

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

NO: Does not print the number of purchases.
YES: Prints the number of purchases.

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

NO: Does not print the time on the receipt and journal.
YES: Prints the time on the receipt and journal.

- **JOURNAL SEL. (Use the selective entry)**

PARTIAL: Prints the information on all entries other than normal department entries (entries into "+" departments and their associated "+" PLUs) on the journal.
FULL: Prints the detailed information on the journal.

- **R/J -VAT/TAX (Use the selective entry)**

NO: Does not print VAT or tax amounts on the receipt and journal.
YES: Prints VAT or tax amounts on the receipt and journal.

- **R/J -TAXABLE (Use the selective entry)**

NO: Does not print taxable amounts on the receipt and journal.
YES: Prints taxable amounts on the receipt and journal.

- **R/J -NET (Use the selective entry)**

NO: Does not print net amounts on the receipt and journal.
YES: Prints net amounts on the receipt and journal.

■ Printing selection (continued)

- **BILL -VAT/TAX (Use the selective entry)**
 - NO: Does not print VAT or tax amounts on the bill.
 - YES: Prints VAT or tax amounts on the bill.
- **BILL -TAXABLE (Use the selective entry)**
 - NO: Does not print taxable amounts on the bill.
 - YES: Prints taxable amounts on the bill.
- **BILL -NET (Use the selective entry)**
 - NO: Does not print net amounts on the bill.
 - YES: Prints net amounts on the bill.
- **BILL -TIME (Use the selective entry)**
 - NO: Does not print the time on the bill.
 - YES: Prints the time on the bill.
- **SEPARATOR LINE (Use the selective entry)**
 - YES: Prints separator lines in the report.
 - NO: Creates one-line space instead of printing separator lines in the report.
- **LINK PLU (Use the selective entry)**
 - PARENT+TTL: Prints parent PLU text of linked PLUs with totalizer.
 - EACH PLU: Prints each PLU text of linked PLUs.
- **TOTAL&CHANGE (Use the selective entry)**
 - Exchange1 amount print for total and change
 - DOMESTIC: Displays in domestic currency only.
 - WITH EX1: Displays both in domestic and EX1 currencies.
- **EJ PRINT (Use the selective entry)**
 - NORMAL: Prints the normal-size letters on the journal.
 - SMALL: Prints the compressed-size letters on the journal.

■ EURO

You can program optional functions for EURO. For the details, refer to EURO Migration Function section.

Procedure

```
— EURO —
DATE          000000
TIME          00
PRICE CONVERT YES
EURO JOB     NON-COMPUL.

PGM2                0001
```

Program each item as follows:

• DATE (Use the numeric entry)

Preset the date to execute the automatic EURO modification operation.

Enter the day (2 digits), month (2 digits), and year (2 digits) in this sequence.

• TIME (Use the numeric entry)

Preset the time of the date to execute the automatic EURO modification operation.

Enter the hour (00-23)

• PRICE CONVERT (Use the selective entry)

NO: Does not convert the preset unit prices of Dept./PLU/EAN to the ones of EURO currency in the automatic EURO modification operation.

YES: Converts the preset unit prices of Dept./PLU/EAN in the automatic EURO modification operation.

NOTE The preset rate of the **EX1** key is applied as the conversion rate, and the calculation method is set to "division".

• EURO JOB (Use the selective entry)

NON-COMPUL.: Non-compulsory the automatic EURO modification operation in the X2/Z2 mode after the preset date.

COMPULSORY: Compulsory the automatic EURO modification operation in the X2/Z2 mode after the preset date.

NOTE When the EURO STATUS of your register is already "D" (i.e. the domestic currency has been changed to EURO in your register), this programming is disabled.

Report Programming

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

Procedure

```
SETTING
8 TERMINAL
9 DATE/TIME
10 OPTIONAL
11 REPORT
12 MESSAGE
13 DEVICE CONFIG
14 AUTO GENE. GLU
PGM2 0001
```



```
REPORT
1 0 SKIP
2 HOURLY REPORT
3 STACKED REPORT
PGM2 0001
```

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

2. Select any option from the following options list:

- | | |
|------------------|----------------|
| 1 0 SKIP | Zero skip |
| 2 HOURLY REPORT | Hourly report |
| 3 STACKED REPORT | Stacked report |

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



■ Zero skip

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

Procedure

— ◊ SKIP —	SKIP
CLERK	SKIP
CASHIER	SKIP
TRANSACTION	SKIP
DEPARTMENT	SKIP
PLU	SKIP
HOURLY	SKIP
DAILY NET	SKIP
PGM2	0001

Program each item as follows:

• 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.

• CASHIER (Use the selective entry)

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

• 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.

• PLU (Use the selective entry)

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

• DAILY NET (Use the selective entry)

- SKIP: Skips those data that are “0” in the daily net report.
- NOT SKIP: Does not skip those data that are “0” in the daily net report.

■ Hourly report

You can program the memory type and the starting time for the hourly report.

Procedure

— HOURLY REPORT —	30MIN
MEMORY TYPE	◊◊
START TIME	
PGM2	0001

Program each item as follows:

• MEMORY TYPE (Use the selective entry)

- 15MIN: Selects the 15-minute type.
- 30MIN: Selects the 30-minute type.
- 60MIN: Selects the 60-minute type.

• START TIME (Use the numeric entry)

- Starting time entry (max. 2 digits: 0 to 23)

■ Stacked report

Your register is equipped with the stacked report printing function that enables multiple X/Z reports to be printed in sequence with a single request.

Procedure

Select a stacked report no. from the stacked reports list.



```

REPORT 1
01
02
03
04
05
06
07
PGM2 0001
    
```



```

REPORT 1
01 GENERAL
02 DEPT./GROUP
03 GROUP TOTAL
04 PLU/EAN
05 PLU/EAN STOCK
06 PLU/EAN 0 SALES
07 PLU CATEGORY
PGM2 0001
    
```



When you are allowed to set the parameter of a report, the following window will appear.

```

PLU/EAN
START CODE 000001
END CODE 999999999999
PGM2 0001
    
```

You can select a maximum of twenty reports from the stacked reports list. Some reports can be set their parameters such as “START CODE” and “END CODE.”

- **01 GENERAL**
General report
- **02 DEPT./GROUP (Use the numeric entry)**
Full department report
Parameter: Starting department code/ending department code (1 through 99)
- **03 GROUP TOTAL**
Full group total report on departments
- **04 PLU/EAN (Use the numeric entry)**
PLU report by designated range
Parameter: Starting PLU code/ending PLU code (1 through 999999)
- **05 PLU/EAN STOCK (Use the numeric entry)**
PLU stock report
Parameter: Starting PLU code/ending PLU code (1 through 999999)
- **06 PLU/EAN 0 SALES (Use the selective/numeric entry)**
PLU zero sales report
Parameter: 1 ALL/2 BY DEPT.
When “2 BY DEPT.” is selected, enter a department code (1 through 99).
- **07 PLU CATEGORY (Use the numeric entry)**
PLU/EAN by price category
Parameter: Starting price/ending price
- **08 TRANSACTION**
Transaction report
- **09 TL-ID**
Total in drawer report
- **10 COMMISSION**
Commission sales report
- **11 ALL CLERK**
Full clerk report
- **12 ALL CASHIER**
Full cashier report

■ Stacked report (continued)

- **13 HOURLY (Use the numeric entry)**

Hourly report

Parameter: Starting time/ending time (0 through 2345)

NOTE

To take the hourly Z report, you have to specify the full-range hourly report.

- **14 DAILY NET**

Daily net report

- **15 GLU (Use the numeric entry)**

GLU report

Parameter: Starting GLU code/ending GLU code (1 through 9999)

- **16 BALANCE**

Balance report

- **17 EAN DELETE**

EAN delete report (reading)

Message Programming

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

Procedure

```
SETTING
8 TERMINAL
9 DATE/TIME
10 OPTIONAL
11 REPORT
12 MESSAGE
13 DEVICE CONFIG
14 AUTO GENE. GLU
PGM2 0001
```



```
MESSAGE
1 RECEIPT LOGO
PGM2 0001
```

1. In the SETTING window, select "12 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.

12 MESSAGE — 1 RECEIPT LOGO ➔ See "Receipt logo" on page 144.

■ Receipt logo

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

Procedure

```
RECEIPT LOGO
THANK YOU
FOR YOUR
PURCHASE
WE ARE LOOK
FORWARD TO
YOUR NEXT
PGM2 A 0001
```

Program the item as follows:

- **RECEIPT LOGO (Use the character entry)**
 - Logo text for the receipt (max. 40 characters x 6 lines)
 - Entering sequential characters "=" will print the corresponding clerk name in the footer logo message. Enter 12 characters "=",

NOTE

The programmable number of lines for a message varies according to the following message types:

- 3-line header message type
- Graphical logo only type
- Graphical logo and 3-line footer message type
- 6-line header message type
- 3-line header and 3-line footer messages type
- 3-line header message, graphical logo, and 3-line footer message type
- Graphical logo and 3-line header and 3-line footer messages type

Please contact your authorized SHARP dealer.

Device Configuration Programming

Use the following procedure to select a device configuration programming:

Procedure

```

SETTING
8  TERMINAL
9  DATE/TIME
10  OPTIONAL
11  REPORT
12  MESSAGE
13  DEVICE CONFIG
14  AUTO GENE. GLU
PGM2                0001
    
```



```

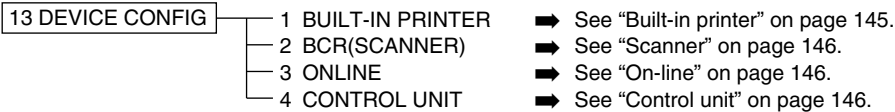
DEVICE CONFIG
1  BUILT-IN PRINTER
2  BCR(SCANNER)
3  ONLINE
4  CONTROL UNIT
PGM2                0001
    
```

1. In the SETTING window, select "13 DEVICE CONFIG".
 - The DEVICE CONFIG window will appear.

2. Select any option from the following options list:

- | | |
|--------------------|------------------|
| 1 BUILT-IN PRINTER | Built-in printer |
| 2 BCR (SCANNER) | Scanner |
| 3 ONLINE | On-line |
| 4 CONTROL UNIT | Control unit |

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



■ Built-in printer

Procedure

```

BUILT-IN PRINTER
LIGHT&SHADE          50
IMAGE FOOTER        NOT PRINT
DIFF ST FEED        ◊
PGM2                0001
    
```

Program each item as follows:

- **LIGHT&SHADE (Use the numeric entry)**
 Select a light and shade level. (00 to 99)
 00: 89% for standard
 50: 100% <standard>
 99: 110% for standard
- **IMAGE FOOTER (Use the selective entry)**
 PRINT: Prints footer graphic logo.
 NOT PRINT: Not print footer graphic logo.
- **DIFF ST FEED**
 Difference subtotal feed line (0 to 9)

■ Scanner

Procedure

```
— BCR<SCANNER> —  
CHANNEL# 0  
BAUD RATE 4800bps  
DATA BITS 7 Bits  
PARITY ODD  
STOP BIT 1 Bit  
  
PGM2 0001
```

Program each item as follows:

- **CHANNEL# (Use the selective entry)**
Channel number (0 through 4)
When you program as “0”, no RS-232C channel is assigned.
- **BAUD RATE (Use the selective entry)**
Transmission speed (baud rate)
19200 bps/9600 bps/4800 bps
- **DATA BITS (Use the selective entry)**
Data bit: 7 bits/8 bits
- **PARITY (Use the selective entry)**
Parity bit: NON/ODD/EVEN
- **STOP BIT (Use the selective entry)**
Stop bit: 1 bit/2 bits

■ On-line

Procedure

```
— ONLINE —  
CHANNEL# 0  
  
PGM2 0001
```

Program each item as follows:

- **CHANNEL# (Use the numeric entry)**
Channel number (1 through 4)
When you program as “0”, no RS-232 channel is assigned.

■ Control unit (only available in specific countries)

Procedure

```
— CONTROL UNIT —  
CHANNEL# 0  
BAUD RATE 19200bps  
  
PGM2 0001
```

Program each item as follows:

- **CHANNEL# (Use the selective entry)**
Channel number (0 through 4)
When you program as “0”, no RS-232C channel is assigned.
- **BAUD RATE (Use the selective entry)**
Transmission speed (baud rate)
38400 bps/19200 bps/9600 bps

GLU Code Programming

You can program the range of GLU code:

Procedure

```
SETTING ▲▼
8 TERMINAL
9 DATE/TIME
10 OPTIONAL
11 REPORT
12 MESSAGE
13 DEVICE CONFIG
14 AUTO GENE. GLU
PGM2 0001
```



```
AUTO GENE. GLU
START CODE 0001
END CODE 9999
PGM2 0001
```

To program the GLU code, select "14 AUTO GENE. GLU" in the SETTING window.

Program each item as follows:

- **START CODE (Use the numeric entry)**
Start GLU code (1 through 9999)
- **END CODE (Use the numeric entry)**
End GLU code (1 through 9999)

Tax Programming

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

Procedure

```
SETTING
11 REPORT
12 MESSAGE
13 DEVICE CONFIG
14 AUTO GENE. GLU
15 TAX
16 ONLINE CONFIG
17 VMP CONFIG
PGM2 0001
```



```
TAX
1 TAX1
2 TAX2
3 TAX3
4 TAX4
5 TAX5
6 TAX6
PGM2 0001
```



```
TAX1
RATE SIGN
TAX RATE 0.0000%
LOWER TAX 0.00
PGM2 0001
```

1. From the SETTING menu, select "15 TAX."
 - The TAX menu will appear.

2. Select any option from the following options list:

1 TAX1:	Tax 1	2 TAX2:	Tax 2
3 TAX3:	Tax 3	4 TAX4:	Tax 4
5 TAX5:	Tax 5	6 TAX6:	Tax 6

NOTE

If the **[DEL]** key is pressed on the tax number selection menu, the tax rate in the cursor position will be deleted.

3. Program each item as follows:

- **RATE SIGN (Use the selective entry)**

-: Minus rate
+: Plus rate

- **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: 0.01 to 999.99)

- This option is not available in the VAT system.

On-line Configuration Programming

Use the following procedure to select the on-line configuration programming.
Please consult your dealer for more details.

Procedure

```
— SETTING —▲
11 REPORT
12 MESSAGE
13 DEVICE CONFIG
14 AUTO GENE. GLU
15 TAX
16 ONLINE CONFIG
17 VMP CONFIG
PGM2 0001
```



```
— ONLINE CONFIG —
TERMINAL No. 000001
CI SIGNAL NON
LINE FORM FULL
BAUD RATE 19200 bps
START CODE 002
END CODE 013
TIME OUT 007
PGM2 0001
```

1. In the SETTING window, select "16 ONLINE CONFIG".
 - The ONLINE CONFIG window will appear.

2. Program each item as follows:

- **TERMINAL No. (Use the numeric entry)**
Terminal number (0 to 999999).
- **CI SIGNAL (Use the selective entry)**
Sensing of the CI signal
NON
FULL
SENSING
- **LINE FORM (Use the selective entry)**
Programming of the modem control
FULL: Full duplex system
HALF: Half duplex system
- **BAUD RATE (Use the selective entry)**
Transmission data rate
57600 bps 38400 bps
19200 bps 9600 bps
4800 bps
- **START CODE (Use the numeric entry)**
Start code (0 to 127)
- **END CODE (Use the numeric entry)**
End code (0 to 127)
- **TIME OUT (Use the numeric entry)**
Programming of the time-out time (1 to 255 sec.)

VMP Configuration Programming

Procedure

```
— SETTING —▲
11 REPORT
12 MESSAGE
13 DEVICE CONFIG
14 AUTO GENE. GLU
15 TAX
16 ONLINE CONFIG
17 VMP CONFIG
PGM2 0001
```



```
— VMP CONFIG —
PASSWORD 0000
VMP1 PASSWORD 0000
VMP2 PASSWORD 0000
VMP3 PASSWORD 0000
VMP1 ID 0000000000
VMP2 ID 0000000000
VMP3 ID 0000000000
PGM2 0001
```

To program the VMP configuration, select “17 VMP CONFIG” in the SETTING window.

Program each item as follows:

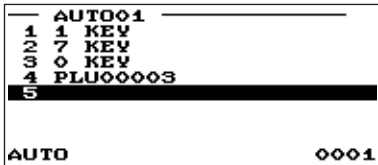
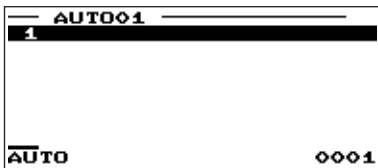
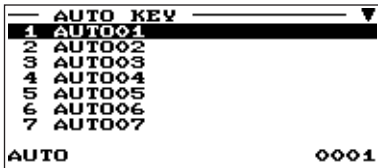
- **PASSWORD (Use the numeric entry)**
Normal password (0 through 9999)/"0": No password
- **VMP1 PASSWORD (Use the numeric entry)**
VMP1 password (0 through 9999)/"0": No password
- **VMP2 PASSWORD (Use the numeric entry)**
VMP2 password (0 through 9999)/"0": No password
- **VMP3 PASSWORD (Use the numeric entry)**
VMP3 password (0 through 9999)/"0": No password
- **VMP1 ID (Use the numeric entry)**
VMP1 ID (max. 10 digits)
- **VMP2 ID (Use the numeric entry)**
VMP2 ID (max. 10 digits)
- **VMP3 ID (Use the numeric entry)**
VMP3 ID (max. 10 digits)

Automatic Sequencing Key Programming

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

Procedure

Select "7 AUTO KEY MODE" from the mode selection window.



1. In the mode selection window, select "7 AUTO KEY MODE".
 - The AUTO KEY window will appear.

2. Select the pertinent AUTO key from the key list.

3. Enter the key data and press the key.
Your register allows to program up to 25 key operations.

<Key type>	<Key data>
Function key:	Key code (3 digits: XXX)
Department key:	Department code (4 digits: 00XX)
PLU key:	PLU code (5 digits: XXXXX)

4. To terminate the procedure enter the or key, the confirmation window will appear for data saving. Select "SAVE" or "ABANDON" and enter the key.

Key code	Function key
001	0
002	1
003	2
004	3
005	4
006	5
007	6
008	7
009	8
010	9
011	00
012	000
013	.
014	(X)
015	CANCEL
016	CL
017	MODE
018	↑
019	↓
020	ENTER
021	PAGE UP
022	PAGE DOWN
023	ST
024	TL/NS
025	MISC MENU
026	% MENU
027	(-) MENU
028	CHECK MENU
029	CREDIT MENU
030	EXCHANGE MENU
031	L1
032	L2
033	L3
034	PRICE SHIFT
035	PLU/SUB
036	DEPT#
037	INQ
038	PRICE CHANGE
039	AMOUNT
040	REPEAT [+]
041	∞
042	REFUND
043	%1
044	%2
045	%3
046	%4
047	(-)1
048	(-)2
049	(-)3

Key code	Function key
050	(-)4
051	RA
052	RA 2
053	PO
054	PO 2
055	NO SALE
056	#
057	G.C. COPY
058	RCPT
059	VAT
060	AUTO#
061	AUTO1
062	AUTO2
063	AUTO3
064	AUTO4
065	AUTO5
066	AUTO6
067	AUTO7
068	AUTO8
069	AUTO9
070	AUTO10
071	CA2
072	CHECK
073	CHECK2
074	CHECK3
075	CHECK4
076	CR1
077	CR2
078	CR3
079	CR4
080	EX 1
081	EX 2
082	EX 3
083	EX 4
084	VAT SHIFT ITEM
085	VAT SHIFT TRANS.
086	DIFFER ST
087	CSR#
088	CLK#
089	MGR#
090	GLU
091	NBAL
092	FINAL
093	DEPO (+)
094	DEPO (-)
095	GC RCPT
096	RCPT. SW
097	EJ VIEW
098	BANK CONSOLE

SD CARD Mode

The register's data can be saved to the SD memory card, and the programming data can be loaded from the SD memory card.

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

For details, please consult your authorized SHARP dealer.

■ Inserting and removing an SD memory card

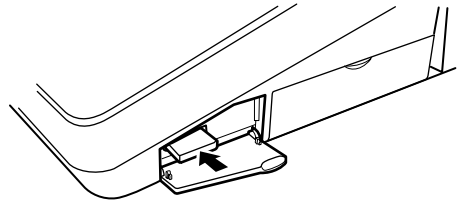
The SD card slot is located on the right side of your register and has a side cover.

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.

■ SD card formatting

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

Procedure

- (1) Select the **[FORMATTING]** menu and press the **[ENTER]** key in the "SD CARD" mode, the confirmation window is displayed.
- (2) To perform the format operation, select the **[OK]** menu and press the **[ENTER]** key.
To cancel the operation, select the **[CANCEL]** menu and press the **[ENTER]** key.

■ Folder code selecting

The programmed code is used the file folder structure. Up to 8 digits code can be programmed.

Procedure

- (1) Select the **[FOLDER CONTROL]** menu and press the **[ENTER]** key in the "SD CARD" mode, the FOLDER CONTROL window is displayed.
- (2) Select the **[SELECT FOLDER]** menu and press the **[ENTER]** key, the folder code list window is displayed.
- (3) Select the required folder code from the list, and enter the **[ENTER]** key.
To cancel the operation, press the **[CANCEL]** key.

■ Folder creating

The master folder can be created for the data file.

(¥ SHARP¥ ECRXXX06¥ nnnnnnn¥ : nnnnnnn/folder code)

Procedure

- (1) Select the [**FOLDER CONTROL**] menu and press the key in the “SD CARD” mode, the FOLDER CONTROL window is displayed.
- (2) Select the [**CREATE FOLDER**] menu and press the key, the folder code entry window is displayed.
- (3) Enter the required folder code and enter the key.
To cancel the operation, press the key.

■ Data saving

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

Procedure

- (1) Select the [SAVING] menu and press the key in the “SD CARD” mode, the selection window “**SAVE** or **SAVE FOR ONLINE**” is displayed.
 1. SAVE: Saves data (The Electronic Journal or T-LOG data must be manually deleted by “Data Clear” operation in the PGM2 mode.)
 2. SAVE FOR ONLINE: Saves and adds data to existing file and clears the data at the register
Select the operation “**SAVE**” or “**SAVE FOR ONLINE**” and press the key, the following data list window is displayed.

Text	Data list
SALES DATA	Sales data
EJ DATA	Electronic journal data
T-LOG DATA	T-LOG data file
IND. PROGRAM	Select the individual programming data: DEPARTMENT, PLU/EAN, GRAPHIC LOGO
ALL PROGRAM	All programming data

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

■ Data loading

The programming data can be loaded from the SD card.

Procedure

- (1) Select the [LOADING] menu and press the key in the “SD CARD” mode, the selection window “IND. PROGRAM/ ALL PROGRAM” is displayed.

Text	Data list
IND. PROGRAM	Select the individual programming data: DEPARTMENT, PLU/EAN, GRAPHIC LOGO
ALL PROGRAM	All programming data

- (2) Select the data menu from the list and press the key, the confirmation window is displayed.
To load the programming data file, select the [OK] menu and press the key.
To cancel the operation, select the [CANCEL] menu and press the key.

Reading of Stored Programs

You can read programs stored in the PGM1 or PGM2 mode.

■ Program reading sequence

To read those programs stored in the PGM1 or PGM2 mode, use the following procedure:

1. Select the PGM1 mode or PGM2 mode from the mode selection window.
2. Select "1 READING" from the PGM1 or PGM2 mode menu to display the items list.
3. Select an item listed in the table shown later.
4. Where "RANGE" and/or "PICK UP" are displayed on the screen, select either option. Select "RANGE" to read program by range, and "PICK UP" to read program by picking up codes. The procedure to specify a range or to pick up codes are the same as the one in sales report.

On the table, for the item you can specify a range, "*1" is indicated, and for the item you can pick up codes, "*2" is indicated.

Item:	Description:	Available mode:
1 DEPARTMENT *1	Department	PGM1 or PGM2
2 PLU/EAN *1*2	PLU/EAN	PGM1 or PGM2
3 SET PLU TABLE	Set PLU table	PGM2
4 LINK PLU TABLE *1	Link PLU table	PGM2
5 PROMOTION TABLE	Promotion table	PGM2
6 EAN OTHERS	EAN other functions	PGM2
7 FUNCTION	Function	PGM1 or PGM2
8 MEDIA	Media key	PGM2
9 TRAINING CLK/CSR	Training clerk/cashier	PGM2
10 CLERK	Clerk	PGM1 or PGM2
11 CASHIER	Cashier	PGM1 or PGM2
12 MANAGER	Manager	PGM2
13 OPTIONAL	Optional feature	PGM2
14 REPORT	Report	PGM2
15 FUNCTION TEXT	Function text	PGM2
16 MESSAGE	Message	PGM2
17 AUTO GENE. GLU	GLU code	PGM2
18 TAX	Tax	PGM2
19 AUTO KEY SEQ.	Automatic sequencing key	PGM2
20 DEVICE CONFIG	Device configuration	PGM2
21 DIRECT KEY	Direct key	PGM2
22 ONLINE CONFIG	On-line configuration	PGM2
23 VMP CONFIG	VMP configuration	PGM2
24 ROM VERSION	ROM version	PGM2

■ Sample printouts

• Departments (PGM1 or PGM2 mode)

Operating mode*	*PGM2*		
Report type	DEPARTMENT		
Dept. code	D01	5.00	Tax status
Description	DPT.01	G01	Unit price
	0301	VOCOL18	Group no.
	D02	2.50	VMP no./Commission group/HALO limit
	DPT.02	G01	
	0301	VOCOL18	Function programming
	D03	3.00	0 3 0 1
	DPT.03	G01	Print on clerk report (Yes/No)
	0301	VOCOL18	Age verification (Yes/No)
	D04	0.00	Amount entry type (open and preset/preset/open/inhibited)
	DPT.04	G01	SIF/SICS/normal
	0301	VOCOL18	
	D05	0.00	
	DPT.05	G01	
	0301	VOCOL18	
	D06	-2.25	Minus department
	DPT.06	G10	
	0301	VOCOL18	

* When you take this report in the PGM1 mode, the PGM2 indication is replaced by a "PGM1."

• PLU/EAN (PGM1 or PGM2 mode)

Report type	PLU/EAN	*PGM2*		Associated dept. code
PLU code	P00001	(01)	#00/ 0	Commision group
	T1	CO		Menu type (space: normal PLU, L: link PLU table no., S: set PLU table no.)
Description	PLU00001			Base q'ty
	30	S	1.91	Price 1
	P00002	(01)	2.00	Price 2
	T1	CO		
	PLU00002			
	30	S	-16.000	
	P00003	(01)	#00/ 0	Stock
	T1	CO		
	PLU00003		0.79	Tax status
	30	S	0.99	Function programming
	P00004	(01)	#00/ 0	3 0
	T1	CO		Age verification (Yes/No)
	PLU00004		0.00	Amount entry type (open and preset/preset/open /inhibited)
	30	S	-11.000	
	P00005	(01)	#00/ 0	
	T1	CO		
	PLU00005		0.00	
	30	S	0.00	
	P00006	(01)	#00/ 0	
	T1	CO		
	PLU00006		0.00	
	30	S	-12.000	

	P00500	(01)	#00/ 0
		CO	
	PLU00500		0.00
	20	S	0.00
	4901991641875#		
	P00500	(01)	#00/ 0
		CO	
	Item A		0.00
			0.00
	20	S	0.000
EAN code	5012345678900#		
	P00500	(01)	#00/ 0
		CO	
	Item B		3.10
			2.20
	20	S	-1.000
	5045678912304#		
	P00500	(01)	#00/ 0
		CO	
	*Item C		7.20
			0.00
	20	S	0.000
	5087654321106#		
	P00500	(01)	#00/ 0
		CO	
	Item M		7.50
			7.20
	20	S	0.000

NOTE

The EAN codes are printed out in the sequence shown below.

EAN-13
EAN-8
UPC-A
UPC-E
ITF-14

Non-accessed EAN delete method (* : Non-delete, space: Delete in the Z1 mode)

• Link PLU table (PGM2 mode)

PGM2	
LINK PLU/EAN TBL	Report type
#01	Link PLU table no.
	Assigned PLU codes
	P00031
	P00032
	P00033
	P00034
	P00035
#02	P00051
	P00052
	P00053

• Set PLU table

PGM2	
SET PLU TABLE	Report type
#01	Set PLU table no.
	Assigned PLU codes
	P00015
	P00016
	P00017
	P00018
#02	P00010
	P00011
	P00012

• Promotion table (PGM2 mode)

PGM2	
PROMOTION TABLE	Report type
#01	Promotion table no.
Promo A	GLOBAL
01	Type (GLOBAL/INDIVIDUAL)
02	P00005
03	P00006
04	P00007
	P00008
	05
AMOUNT DISC.	Trip level
	Promotion way/Discount amount
#02	Text
Promo B	INDIVIDUAL
01	5045678912304#
02	5087654321106#
01/01 02/02 03/00 04/00 05/00	Trip level 1 to 10
06/00 07/00 08/00 09/00 10/00	
AMOUNT DISC.	2. 10

• EAN functions (PGM2 mode)

PGM2	
EAN OTHERS	Report type
EAN NON-PLU	Non-PLU format setting
20	5 4 0 0 1 2
02	4 5 0 0 1 2
EAN DELETE	Delete period
	99
PRESS CODE	Press code function
1	001
2	001
3	001
4	001
5	001

• Functions (PGM1 or PGM2 mode)

PGM2	
FUNCTIONS	Report type
(-) 1	-0.00
I	L18
(-) 2	-0.00
S	L12
(-) 3	-0.00
S	L18
(-) 4	-0.00
S	L18
%1	-0.00%
S	L100.00%
%2	15.00%
I	L100.00%
%3	-0.00%
S	L100.00%
%4	-0.00%
S	L100.00%
COM. SAL1	0.000%
COM. SAL2	0.000%
COM. SAL3	0.000%
COM. SAL4	0.000%
COM. SAL5	0.000%
COM. SAL6	0.000%
COM. SAL7	0.000%
COM. SAL8	0.000%
COM. SAL9	0.000%
DEPOSIT	L18
DEPO. (-)	L18
***RA	L18
***RA2	L18
***PO	L18
***PO2	L18
****CID	99999999.99
CHK/CG	999999.99

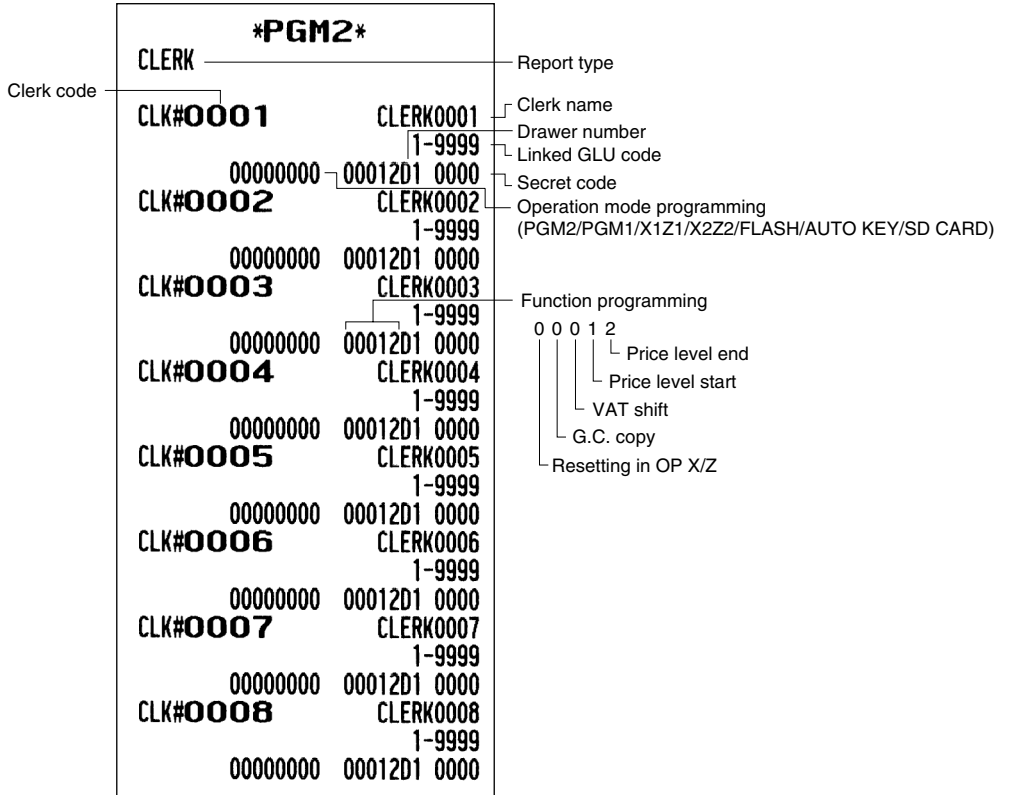
• Media (PGM2 mode)

PGM2		
MEDIA		Report type
CASH	L18	Function text
	00000	
CASH2	L18	HALO
	00000	Programming
CHECK	L18	
	0000000	
CHECK2	L18	
	0000000	
CHECK3	L18	
	0000000	
CHECK4	L18	
	0000000	
CREDIT1	L18	
	0000000	
CREDIT2	L18	
	0000000	
CREDIT3	L18	
	0000000	
CREDIT4	L18	
	0000000	
CA/CHK1	999999.99	
CA/CHK2	999999.99	
CA/CHK3	999999.99	
CA/CHK4	999999.99	
FOREIGN CURRENCY		
		Rate
EXCH1	0.000000 2	Tab
EXCH2	0.000000 2	
EXCH3	0.000000 2	
EXCH4	0.000000 2	
	DRAWER1	

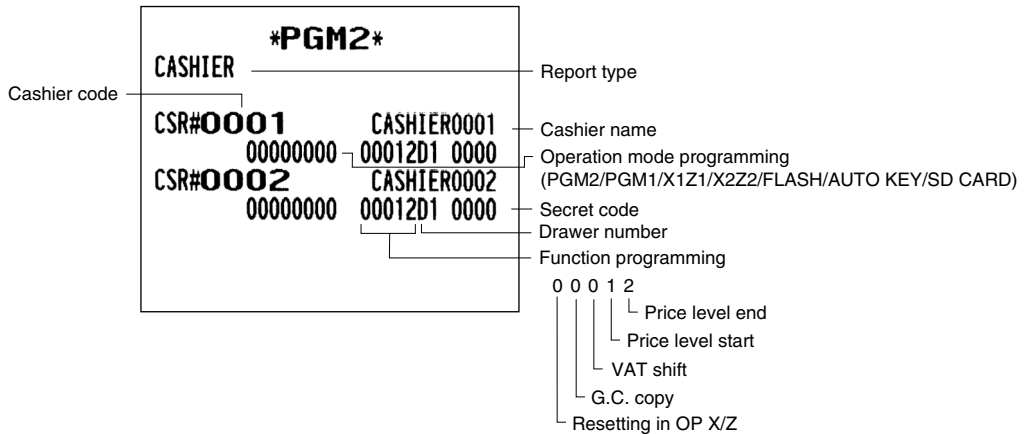
• Training clerk/cashier (PGM2 mode)

PGM2		
TRAINING CLK/CSR		Report type
TRAINING CODE	0000	Training clerk/cashier code
TRAINING TEXT	TRAINING	Training mode title text

• Clerk (PGM1 or PGM2 mode)



• Cashier (PGM2 mode)



• Manager (PGM2 mode)

PGM2		Report type
MANAGER		
MGR#01	0001	
MGR#02	0002	
MGR#03	0003	
MGR#04	4444	
MGR#05	0005	

Manager code Secret code

• Optional features (PGM2 mode)

PGM2		Report type
OPTIONAL		
OPTIONAL		
FUNC. PROHIBIT	ENABLE	
OPX/Z REPORT	PUBLIC	Setting
PAID OUT	PUBLIC	Item
REFUND	PUBLIC	
ISSUE ITM VD	PUBLIC	
NO ISSUED VD	PUBLIC	
SBTL VOID	PUBLIC	
NO SALE	PUBLIC	
1ST LAST VD	ENABLE	
EAN LEARNING	ENABLE	
PRICE CHANGE	PUBLIC	
PAYMENT ST=0	ENABLE	
PRT/DSP EDIT	YES	
DRAWER X1Z1	OPEN	
DRAWER X2Z2	OPEN	
DRAWER OPXZ	OPEN	
FUNCTION SELECT		
VAT SHIFT	BY SHIFT	
LV.SFT MODE	PUBLIC	
LV.SFT TYPE	AUTO	
RETURN TO L1	RECEIPT	
PR.SFT MODE	PUBLIC	
PR.SFT TYPE	AUTO	
RETURN TO P1	BY ITEM	
T-LOG FULL	CONTINUE	
E. J. FULL	CONTINUE	
PAY FOR EX1	CASH	
EX1 CALC.	MULTI.	
CR IN RA/PO	UPDATE	
ISBN PRICE	COMPULSORY	
VMP FULL	CONTINUE	
ADD-ON FULL	ERROR	
EURO NON-PLU	NO CONVERT	
EURO CONVERT	NO CONVERT	

PRINT SELECT		
PURCHASE NO.		NO
TIME PRINT		YES
JOURNAL SEL.		FULL
R/J-VAT/TAX		YES
R/J-TAXABLE		YES
R/J-NET		YES
BILL-VAT/TAX		YES
BILL-TAXABLE		YES
BILL-NET		YES
BILL-TIME		YES
SEPARATOR LINE		NO
LINK PLU		EACH PLU
TOTAL&CHANGE		DOMESTIC
EJ PRINT		SMALL
EURO		
DATE	00/00/2000	
TIME	00	
PRICE CONVERT		YES
EURO JOB		NON-COMPUL.
TERMINAL		
SCREEN SAVE		0
BRIGHTNESS		1

• Report (PGM2 mode)

PGM2	
REPORT	
0	SKIP
CLERK	SKIP
CASHIER	SKIP
TRANSACTION	SKIP
DEPARTMENT	SKIP
PLU	SKIP
HOURLY	SKIP
DAILY NET	SKIP
HOURLY REPORT	
MEMORY TYPE	30
START TIME	00
STACKED REPORT	
1	
GROUP TOTAL	
TL-ID	
COMMISSION	
HOURLY	
2	

Report type

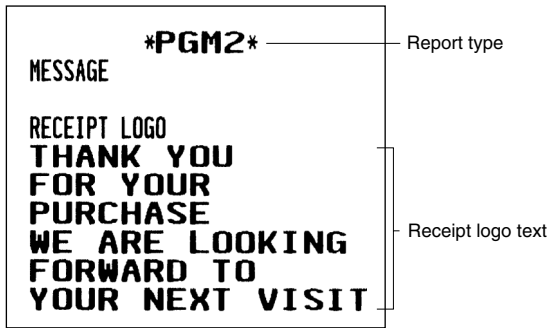
• Function text (PGM2 mode)

PGM2	
FUNCTION TEXT	
NET 1	NET 1
TAX1 ST	TAX1 ST
TAX2 ST	TAX2 ST
TAX3 ST	TAX3 ST
TAX4 ST	TAX4 ST
TAX5 ST	TAX5 ST
TAX6 ST	TAX6 ST
VAT 1	VAT 1
VAT 2	VAT 2
VAT 3	VAT 3
VAT 4	VAT 4
VAT 5	VAT 5
VAT 6	VAT 6
TTL TAX	TTL TAX
NET	NET
VAT SFT	VAT SFT
TAX DELE	TAX DELE
NET2	NET2
SETPLU-	SETPLU-
SETEAN-	SETEAN-
DISCOUNT	DISCOUNT
CP PLU	CP PLU
REFUND	REFUND
VOID	VOID
VOID MODE	VOID MODE
MGR VOID	MGR VOID
SBTL VOID	SBTL VOID
BILL CNT	BILL CNT
NO SALE	NO SALE
***PBAL	***PBAL
***NBAL	***NBAL
SCM(+)	SCM(+)
SCM(-)	SCM(-)
G. C. COPY CNT	G. C. COPY CNT
GUEST	GUEST
ORDER TL	ORDER TL
PAID TL	PAID TL
AVE.	AVE.
O-P	O-P
DOM. CUR1	DOM. CUR1
DOM. CUR2	DOM. CUR2
DOM. CUR3	DOM. CUR3
DOM. CUR4	DOM. CUR4
*CH ID	*CH ID
CA/CHK ID	CA/CHK ID
GROUP01	GROUP01
GROUP02	GROUP02
GROUP03	GROUP03
GROUP04	GROUP04
GROUP05	GROUP05

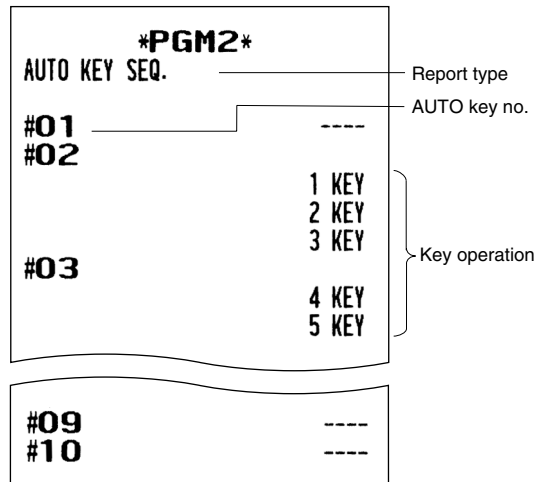
Report type
Function text (default)
Text

GROUP06	GROUP06
GROUP07	GROUP07
GROUP08	GROUP08
GROUP09	GROUP09
*DEPT TL	*DEPT TL
DEPT (-)	DEPT (-)
*HASH TL	*HASH TL
HASH (-)	HASH (-)
*BTTL TL	*BTTL TL
BTTL (-)	BTTL (-)
NON COM.	NON COM.
COM. AMT1	COM. AMT1
COM. AMT2	COM. AMT2
COM. AMT3	COM. AMT3
COM. AMT4	COM. AMT4
COM. AMT5	COM. AMT5
COM. AMT6	COM. AMT6
COM. AMT7	COM. AMT7
COM. AMT8	COM. AMT8
COM. AMT9	COM. AMT9
COM. TTL	COM. TTL
CA/CHK IS	CA/CHK IS
EXCH1 IS	EXCH1 IS
EXCH2 IS	EXCH2 IS
EXCH3 IS	EXCH3 IS
CCD DIF.	CCD DIF.
DIF. TL	DIF. TL
***TOTAL	***TOTAL
SUBTOTAL	SUBTOTAL
OLD BAL.	OLD BAL.
BALANCE	BALANCE
SCM TTL	SCM TTL
CCD	CCD
GLU#	GLU#
	#
ITEM ST	ITEM ST
ITEMS	ITEMS
MOSE ST	MOSE ST
NET 1	NET 1
NET 2	NET 2
NET 3	NET 3
NET 4	NET 4
NET 5	NET 5
NET 6	NET 6
DIFF ST	DIFF ST
DUE	DUE
CHANGE	CHANGE
COPY	COPY
G. C. COPY	G. C. COPY
BILL	BILL
RCP SW.	RCP SW.
PR. CHNG	PR. CHNG
OVCS REMAIN	OVCS REMAIN

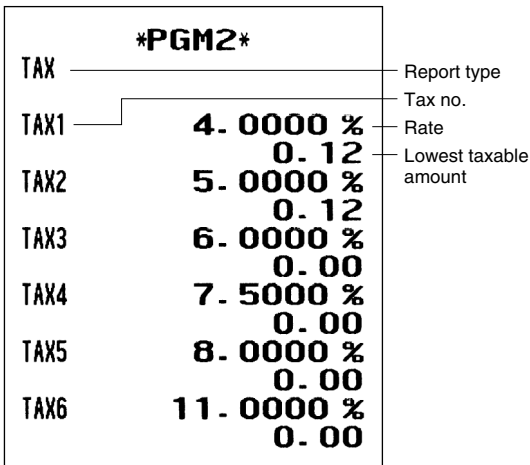
• Message (PGM2 mode)



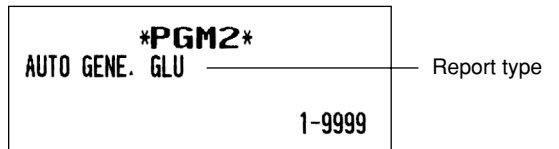
• AUTO key (PGM2 mode)



• Tax rate (PGM2 mode)



• GLU code (PGM2 mode)



• Device configuration (PGM2 mode)

```

*PGM2*
DEVICE CONFIG
BUILT-IN PRINTER
LIGHT&SHADE          50
IMAGE FOOTER         NOT PRINT
DIFF ST FEED
BCR(SCANNER)        C#0 71  ODD
                    4800bps
ONLINE CONTROL UNIT  C#0
                    19200bps
    
```

Report type
Device name
Channel no.
Data bit/Stop bit
Parity
Baud rate

• Direct key (PGM2 mode)

```

*PGM2*
DIRECT KEY
001
002
003
004

023
024
025
026      L 1  P00001
          L 2  P00070
          L 3  ----
027      L 1  P00002
          L 2  P00065
          L 3  ----
028      L 1  P00003
          L 2  ----
          L 3  ----

067
068
069
    
```

Report type
Key no.
PLU level
PLU code

• On-line configuration (PGM2 mode)

```

*PGM2*
ONLINE CONFIG
TERMINAL No.         000001
MODEM CONTROL        00
BPS                  6
START CODE           002
END CODE             013
TIME OUT             007
    
```

• ROM version (PGM2 mode)

```

*PGM2*
VERSION
IPL Version          0.1 ER-A280V
PROGRAM Version      ER-A280V
                    Ver0.24
TEXT Version         Text V.0.24
SYSTEM Version       System V0.24
    
```

• VMP configuration (PGM2 mode)

```

*PGM2*
VMP PRESET
PASSWORD             0000
VMP1 PASSWORD        0000
VMP2 PASSWORD        0000
VMP3 PASSWORD        0000
VMP1 ID              0000000000
VMP2 ID              0000000000
VMP3 ID              0000000000
    
```


12

Electronic Journal/Data Clear

■ Electronic journal

This function is intended to record the journal data in the electronic journal file (memory) instead of journal paper. For details, contact your authorized SHARP dealer.

• Recording data

The register records the printing output to the journal printer in REG, PGM1, PGM2, X1/Z1, and X2/Z2 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 or the display.

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.

■ Data clear

Use the following procedure to perform the data clear operation.

Procedure

```
PGM2 MODE
1 READING
2 SETTING
3 DATA CLEAR
PGM2 0001
```



```
DATA CLEAR
1 E-JOURNAL
2 T-LOG
PGM2 0001
```

1. In the PGM2 MODE window, select "3 DATA CLEAR".
 - The DATA CLEAR window will appear.

2. Select the pertinent operation.

European Article Number (EAN) or Universal Product Code (UPC)

■ EAN or UPC code

Your machine can transact the following codes:

- UPC-A (Number system character: 0, 2, 3, 4) • UPC-E
- EAN-8 • EAN-13 • Internal code EAN-8/EAN-13 • ITF-14

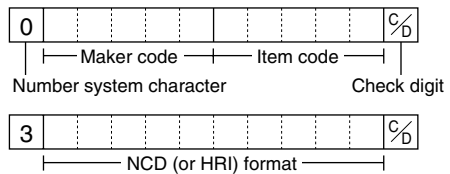
For the codes used in-store marking, there are two types of PLU type (treated as a code like PLU code) and Non-PLU type (price/quantity information is included in the code).

When a code is non-PLU type, the price/quantity in the code is read for sales entry (in case of quantity, "quantity multiplies preset unit price" is processed to obtain price.)

UPC-A

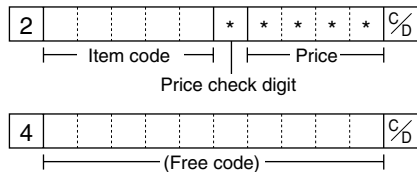
- Number system character: 0 <used in the source marking>
- Number system character: 3 <used as NDC or HRI>

For entry, a full 12 digits number or 11 digits number (omitting the check digits) must be entered.



- Number system character: 2 <In-store marking Non-PLU type> You can program the format in "EAN NON-PLU" in ARTICLE setting.
- Number system character: 4 <In-store marking PLU type>

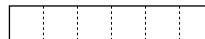
For entry, a full 12 digits number, 11 digits number (omitting the check digit), or a leading zero plus 12 digits number must be entered. (Any numbers are allowed for the digits marked with *, and on the receipt/journal, non-PLU type code is printed like 2020008**** (****: price information).)



UPC-E

- UPC-E is a zero-suppressed version of UPC-A that conforms to the UPC-E Standards. This code is used for marking small package.

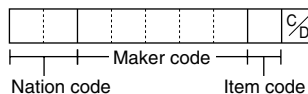
For entry, a 6 digits number or a leading zero plus 6 digits number must be entered.



EAN-8

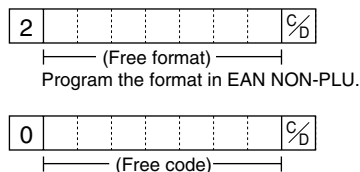
- Ordinary EAN-8 code (flag: neither 0 nor 2) <used in the source marking>

For entry, a full 8 digits number must be entered.



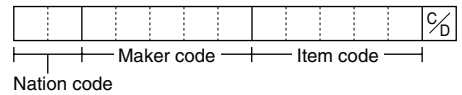
- Internal code (flag 2) <in-store marking non-PLU short type> Program the format in "EAN NON-PLU" in ARTICLE setting.
- Internal code (flag 0) <in-store marking PLU short type>

For entry, a full 8 digits number must be entered. On the receipt/journal, non-PLU type code is printed like 208**** (****: price/quantity information)



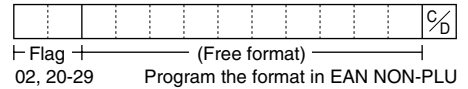
EAN-13

- Ordinary EAN-13 code (used in the source marking)
- Specific EAN-13 code (flag 977, 978, 979) (used in the source marking: ISBM, ISSN)



For entry, you must enter a full of 13 digits number.

- Internal code (used in the in-store marking, the flag character number: 20 through 29 and 02)
Program the format in “EAN NON-PLU” in ARTICLE setting.

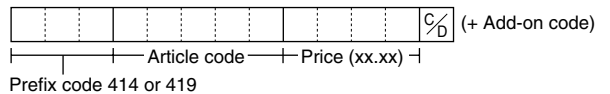


- EAN press code (used for press articles)
For a press article, you must use a 13 digits number EAN code plus a 2-digit or 5-digit add-on code, though your register can register 13 digits number EAN code without an add-on code.

NOTE The format for press articles is decided unique by each country. For the formats for other countries than the ones shown below, please ask your authorized SHARP dealer.

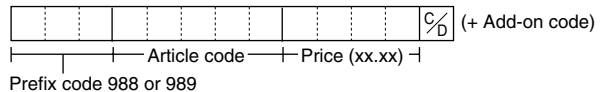
German type 2

(EURO code - The price is coded in EURO from January 2002)
Currency for price is EURO.



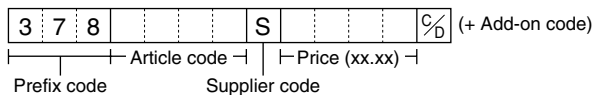
United Kingdom

Currency for price is GBP.



France

Currency for price on the prefix code 378 is EURO, and 379 is FFfr. (The price is converted automatically according to EURO status.)



Sweden

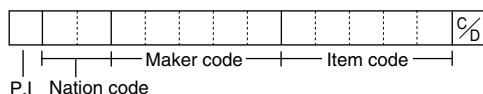
Currency for price is SKr.



NOTE

- The availability of these press codes on your register depends on the programming.
- Since the price in a press code is read for sales entries, and the currency is decided by the code, note that the code you enter for sales matches your domestic currency.

ITF-14



■ Add-on code

UPC-A and EAN-13 may be followed by a two digits number or a five digits number as add-on code, excepting UPC-A without a check digit plus two or five digits add-on code.

Therefore, the total number of digits enterable for sales entries are as shown below:

Code entry	No add-on code	2-digit add-on code	5-digit add-on code
UPC-A	12	14	17
UPC-A w/leading zero	13	15	18
UPC-A w/o check digit	11	–	–
UPC-E	6	–	–
EAN-8	8	–	–
EAN-13	13	15	18

NOTE

Your register automatically judges the add-on code in an EAN code entered from the total number of digits and the flag.

14

EURO Migration Function

Basically your register can be automatically modified to correspond to the introduction of EURO by executing the operation "EURO STATUS" in X2/Z2 mode. However, there are several options you must set depending on your need. So, please carefully conduct necessary settings.
For details, contact your authorized SHARP dealer.

EURO status:

You can select status from following 4 types ((A), (B), (C), or (D)). And the selectable type is decided as follows for each status. Type (A) is the base status (initial status).

From type (A) — selectable —> Type (B), (C), or (D)
 From type (B) — selectable —> Type (C), (D)
 From type (C) — selectable —> Type (D)

Items	Type (B)	Type (C)	Type (D)
General Z1 report	ISSUE	ISSUE	ISSUE
General Z2 report	ISSUE	ISSUE	ISSUE
GT1/GT2/GT3 memory	—	CLEAR	CLEAR
Exchange1 amount printing for total and change	YES	YES	NO
Exchange1 amount printing for total validation print	YES	YES	NO
Exchange1 calculation method	DIVISION	MULTI	MULTI
Domestic currency symbol	—	[EURO]	[EURO]
Domestic TAB	—	2	2
Conversion of preset prices of Dept./PLU/EAN*	—	YES	YES
Exchange1 currency descriptor	[EURO]	The current domestic currency symbol	—
Exchanger1 TAB	2	The current domestic TAB	—

The marked items "—" is remaining the current data.

*: The preset rate of the [EX1] key is applied as the conversion rate, and the calculation method is set to "division". When the conversion has been made, the message "PRICE CONVERTED" is printed on the report.

Setting the date and time when the automatic EURO modification operation should be executed

To certainly execute the automatic modification operation, you can program the scheduled date and time to execute the automatic EURO modification operation. From ten days before the preset date, the remaining days are printed at the bottom of the daily full resetting report.

****CID	*19.00
*CH ID	*45.00
CA/CHK ID	*64.00
CHK/CG	*2.00

EURO START	
01/07/2009 10:00	
DAYS TO EURO	<10>

Date and time setting will be reset after the execution of automatic modification operation, and again you can program the date and time for the next automatic modification operation.

Also you can make the automatic EURO modification operation compulsory. When the above-mentioned preset date and time has come, and also when you start an entry in the REG/MGR mode, the error message "EURO CHANGE ENTRY COMPULSORY" will be displayed. You cannot start any operation in the REG/MGR mode until you make the operation.

Automatic EURO modification operation

1. Select the X2/Z2 mode.
2. Select "8 EURO STATUS" from the menu.
3. Select the status you want to set (B, C or D) referring to the table on the previous page. Press the key to toggle the options.

Please note that once you set a status, you cannot return to the previous status(es).

Important note

As for the miscellaneous keys, such as and keys, and for the HALO setting, the automatic conversion will not be made. You need to change the % rates or amounts in the PGM1/PGM2 mode after the execution of the automatic modification operation for EURO so that they are based on amounts in EURO.

NOTE

It is executed some of following operation which is needed for each status.

(1) Issue general Z1 report. (2) Issue general Z2 report. (3) Clear GT1/GT2/GT3. (4) Change PGM function "Total and change amount printing — With foreign/Domestic only". (5) Change PGM function "Exchange1 amount printing for total validation print — YES/NO" and "Total validation print amount printing — With foreign/Domestic only". (6) Change PGM function "Exchange1 calculation method — Division/Multiplication". (9) Change PGM function "Converting the preset unit prices of departments/PLUs/EANs to the ones in EURO currency - YES/NO. (10) Set "Exchange1 currency descriptor" as the suitable data. (11) Set "Exchange1 TAB" as the suitable data.

NOTE

This job cannot set the following additional EURO function. You must set the following items by each programming after executing the automatic EURO modification operation.

*(1) Exchange1 rate, (2) "Check, Credit operation for Exchange1 — YES/NO"
(3) Foreign currency drawer number (if installed)*

Also when you are using any of the through keys, you must change these rates.

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 “Installing and Removing the Paper Roll” in this chapter, install a new paper roll in the proper position, then press the key. The printer will print the power failure symbol and resume printing.

If the print roller arm comes up, the printer stalls, and “HEAD UP” will appear on the display. Key entries will not be accepted. Push down the arm until it is securely locked, then press the 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 machine.)
- 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 print 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 and Removing 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: Thermal paper

Paper tube: 18 mm

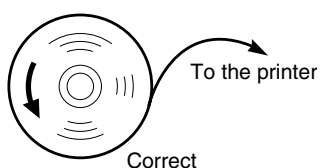
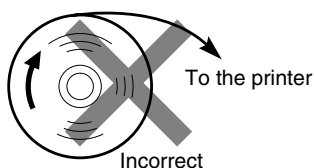
- Be sure to set a paper roll prior to using your machine, otherwise it may cause a malfunction.

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

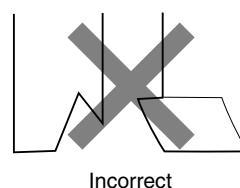
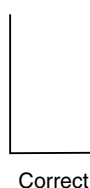
NOTE

If the top end of the paper roll is fixed with paste or tape, the paper may lose its color development ability in the pasted or taped area due to the deterioration of the heat-sensitive color development component of the paper surface. This may result in nothing appearing at this location when printing is performed. Therefore, when setting a new paper roll in the machine, be sure to cut off approximately one revolution (approx. 25 cm long).

(How to set the paper roll)

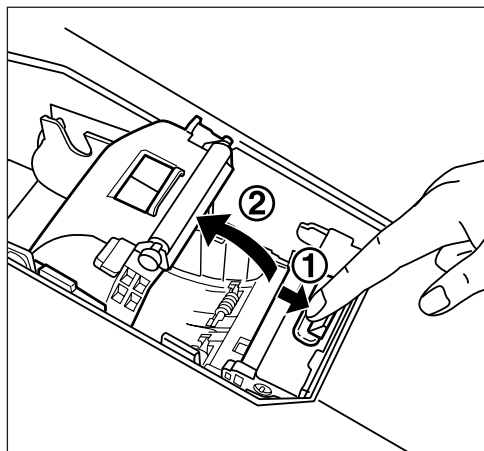


(How to cut the paper end)



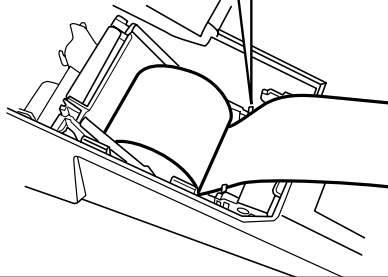
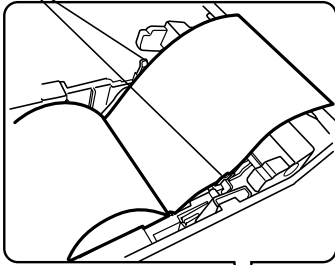
■ Installing the receipt paper roll

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

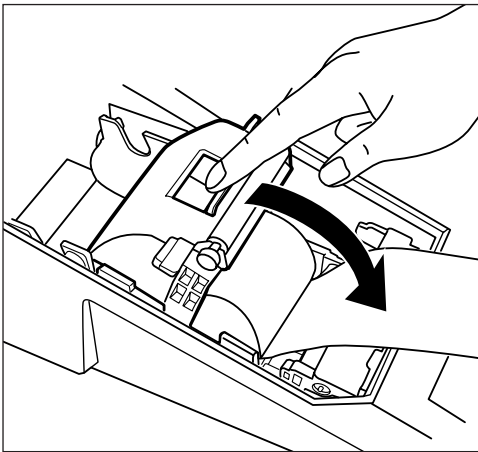


1. Remove the printer cover.
2. Push down the print roller release lever to open the print roller arm.

Paper positioning guide



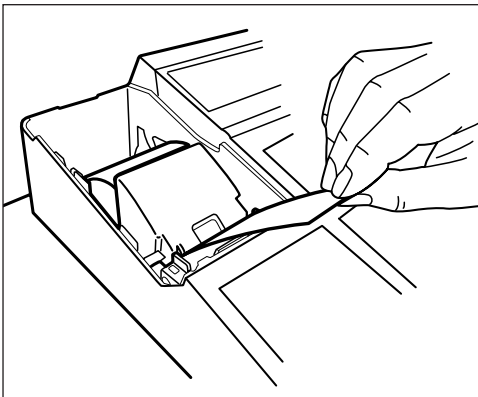
3. Set the paper correctly in the paper roll location.
4. Feed the paper end along with the paper positioning guides.




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. Make sure securely you push down the center of the arm as per the diagram.

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.



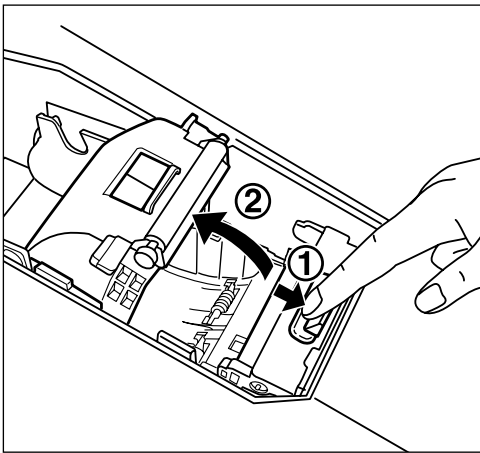
6. Cut off the excess paper using the edge of the inner cover, and replace the printer cover. Press the  key to make sure the paper end comes out of the printer cover and clean paper appears.

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 cover.

■ Removing the receipt paper roll

When a red dye appears on the paper roll, it is time to replace the existing paper roll. Replace the paper roll with a new one. If you plan not to use your register for an extended period of time, remove the paper roll, and store it in the appropriate place.



1. Remove the printer cover.
2. Push down the print roller release lever to open the print roller arm.
3. Remove the paper roll from the paper roll location.

NOTE Do not pull the paper through the printer.

■ Removing the paper jam

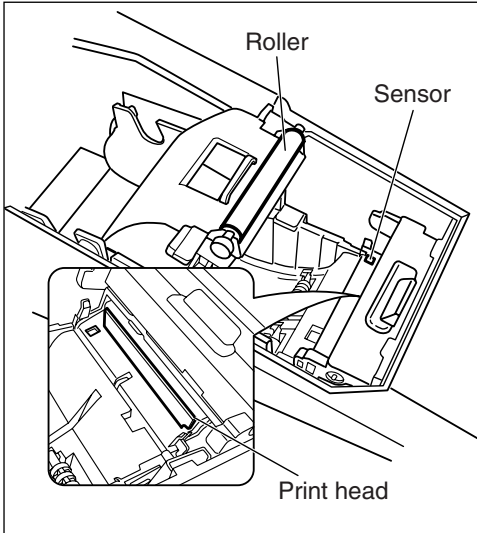
Caution: The paper cutter is mounted on the printer cover. Be careful not to cut yourself. Never touch the print head immediately after printing, as the head may still be hot.

1. Remove the printer cover.
2. Push down the print roller release lever to open 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 receipt paper roll".

Cleaning the Printer (Print Head/Sensor/Roller)

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

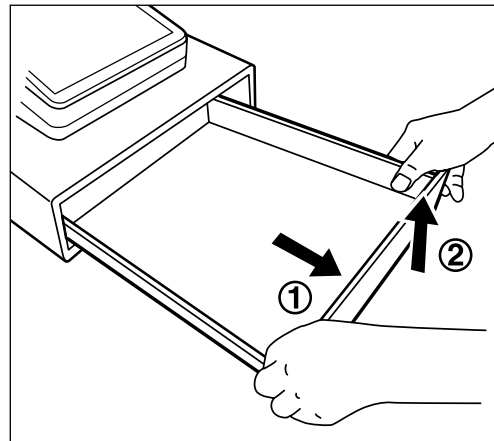
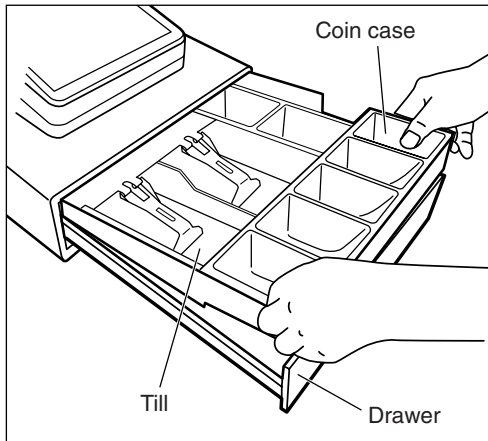
Caution: Never touch the print head with a tool or anything hard as it may damage the head. The paper cutter is mounted on the printer cover. Be careful not to cut yourself.



1. Select the OFF mode.
2. Remove the printer cover.
3. Push down the print roller release lever to open the print roller arm.
4. Remove the paper roll referring to the “Removing the receipt paper roll” section.
5. Clean the print 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 receipt paper roll”.

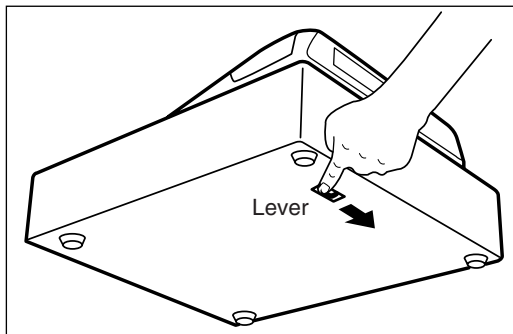
Removing the Till and the Drawer

The till in the register is detachable. After closing your business for the day, remove the till from the drawer and keep the drawer open. The coin case is also detachable from the till. To detach the drawer, pull it forward fully with the till removed, and remove it by lifting it up.



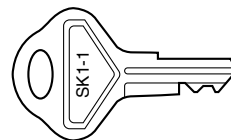
Opening the Drawer by Hand

The drawer automatically opens in the usual way. However, when power failure is encountered or the machine becomes out of order, slide the lever located on the bottom of the machine 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

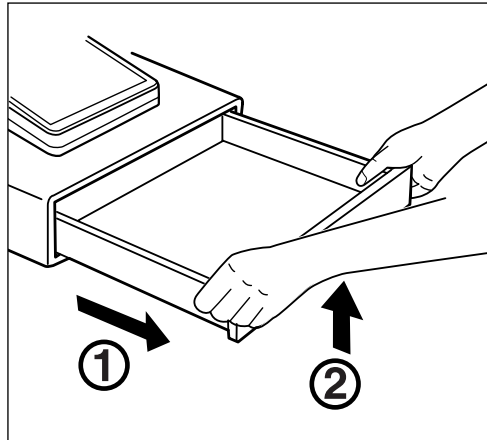
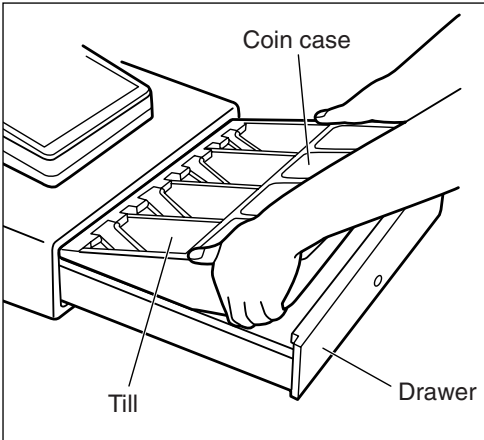
This key locks and unlocks the drawer.
To lock it, turn 90 degrees counterclockwise.
To unlock it, turn 90 degrees clockwise.



Note: This section is only for Australia and New Zealand.

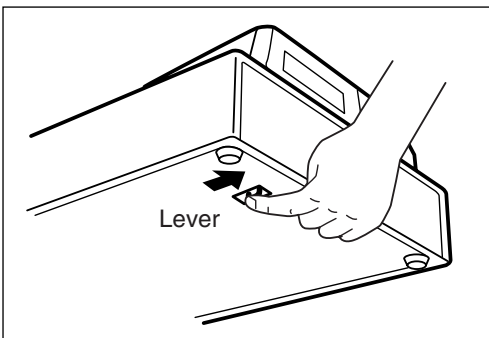
Removing the Till and the Drawer

The till in the register is detachable. After closing your business for the day, remove the till from the drawer and keep the drawer open. The coin case is also detachable from the till. To detach the drawer, pull it forward fully with the till removed, and remove it by lifting it up.



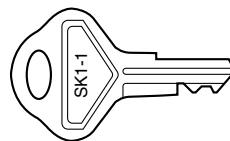
Opening the Drawer by Hand

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



Drawer Lock Key

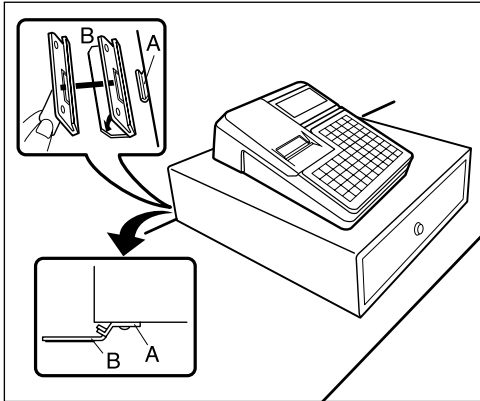
This key locks and unlocks the drawer.
To lock it, turn 90 degrees counterclockwise.
To unlock it, turn 90 degrees clockwise.



Installing the Fixing Angle Bracket

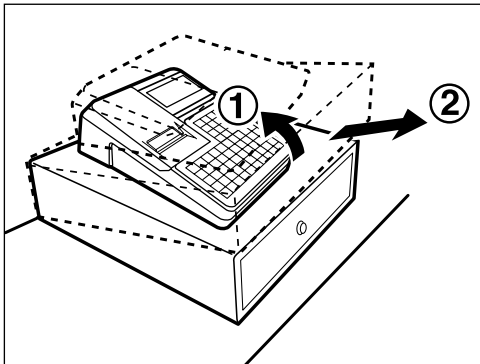
To prevent the register from moving when the drawer opens, the fixing angle bracket is supplied with the register. By attaching the bracket to the table where the register is installed, you can hook the register on this bracket and secure the register to its position.

How to install the fixing angle bracket



1. Thoroughly clean the location where the fixing angle bracket (B) is to be placed.
2. Peel off the adhesive tape on the fixing angle bracket.
3. Hook the angle bracket onto the hook (A) that is located at the bottom rear of the register.
4. Firmly stick the fixing angle bracket to the table surface that you cleaned above.

How to remove the register from the fixing angle bracket



1. Lift up the front of the register and pull the register towards you.

Before Calling for Service

The malfunctions shown in the left-hand column below, labeled “Fault,” do not necessarily indicate functional faults of the machine. It is therefore advisable to refer to the “Checking” shown in the right-hand column 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 electrical outlet? • Is the terminal in screen-save mode?
• The display is illuminated, but the whole machine refuses entries.	• Is a cashier code assigned to the register? • 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 print head/sensor/roller clean? • Is the paper roll properly installed?

16 Options

List of Options

The following Sharp options are available for your ER-A280F/A280N register:

For details, contact your authorized SHARP dealer.

Do not try to install any options yourself.

- | | |
|---------------------------|--|
| 1. Remote drawer | model ER-03DW, ER-03DWB4, ER-04DW, ER-05DW, ER-05DWB5 or ER-06DW |
| 2. Remote coin case | model ER-48CC2, ER-48CC3 or ER-58CC |
| 3. Remote coin case cover | model ER-01CV1-5, ER-02CV1-5 or ER-03CV |
| 4. EFT interface | model UP-I04EF |
| 5. Expand key kit | model ER-12KT9 and ER-22KT9 |
| 6. Dummy key kit | model ER-11DK9B, ER-51DK9B |

17 Specifications

Model:	ER-A280F/ER-A280N	
Dimensions:	<ul style="list-style-type: none"> • Machine equipped with a 3 slots for bill and 7 for coin denominations 330 (W) x 365 (D) x 225 (H) mm • Machine equipped with a 4 slots for bill and 8 for coin denominations 425 (W) x 430 (D) x 230 (H) mm 	
Weight:	9 kg: Machine equipped with a 3 slots for bill and 7 for coin denominations 12 kg: Machine equipped with a 4 slots for bill and 8 for coin denominations	
Power source:	Official (nominal) voltage and frequency	
Power consumption:	Stand-by: 9W (When the official voltage is 220 to 230V, 50Hz/60Hz) 10W (When the official voltage is 230 to 240V, 50Hz) Operating: 33W (max.) (When the official voltage is 220 to 230V, 50Hz/60Hz) 34W (max.) (When the official voltage is 230 to 240V, 50Hz)	
Working temperatures:	0 to 40 °C	
Electronics:	LSI (CPU) etc.	
Built-in battery:	Rechargeable battery pack, memory holding time of about 1 month (with fully charged built-in battery pack, at 25 °C)	
Display:	Operator display:	LCD display with tilte mechanism 192 (W) X 80 (H) (dots)
	Customer display:	7-segment display (10 positions)
Printer:	Type:	1-station thermal printer
	Printing speed:	Approx. 15 lines/second
	Printing capacity:	30 digits for receipt paper
	Other functions:	<ul style="list-style-type: none"> • Graphic logo printing function • Logo message function • Receipt (ON-OFF) function • Receipt paper feed function
Paper roll:	Width: 57.5 ± 0.5 mm Max. diam.: 80 mm Quality: High quality (0.06 to 0.08 mm thickness)	
Cash drawer:	3 slots for bill and 7 for coin denominations for Germany and UK 4 slots for bill and 8 for coin denominations for Australia and New Zealand	
Accessories:	Instruction Manual	1 copy
	Standard key sheet	1 (placed under keyboard cover) for ER-A280F only
	Programming key sheet	1 (placed under keyboard cover) for ER-A280F only
	Paper roll	1
	Drawer lock key	2
	Fixing angle bracket	1
	Bill separator	1 (only for Germany and UK)

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

FOR CUSTOMERS IN U.K.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

BLUE:	Neutral
BROWN:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.

The wire which is coloured **BLUE** must be connected to the terminal which is marked with the letter **N** or coloured black.

The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter **L** or coloured red.

The apparatus must be protected by a 3A fuse in the mains plug or distribution board.

CAUTION: DO NOT CONNECT THE LIVE (BROWN) WIRE OR THE NEUTRAL (BLUE) WIRE TO THE EARTH TERMINAL OF YOUR 3-PIN MAINS PLUG.

Noise level LpA: 60,2 dB(A-weighted)

Measured according to EN ISO 7779:2001

[Maximum value if the optional cash drawer springs open LpA: 82,4 dB(A-weighted)]

SHARP

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SHARP CORPORATION