

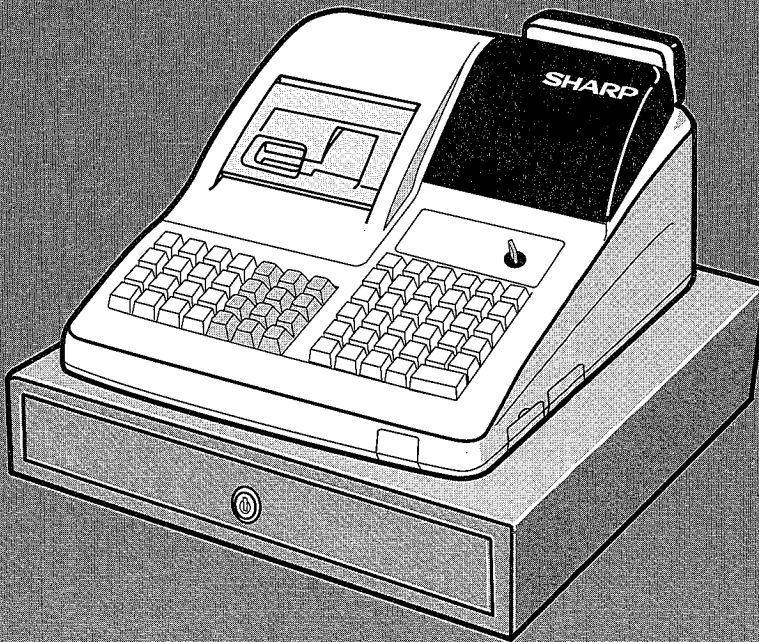
SHARP®

ELECTRONIC CASH REGISTER

MODEL

ER-A450T

INSTRUCTION MANUAL



CAUTION

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

INTRODUCTION

Thank you very much for your purchase of the SHARP Electronic Cash Register, Model ER-A450T. Please read this Manual carefully before operating your machine in order to gain a further understanding of the functions and features offered by this model ECR.

Please keep this manual for future reference, it may help you if you encounter operational problems.

IMPORTANT

- **Install your register in a location that is not subject to direct radiation, unusual temperature changes, high humidity or exposed to water 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.
- **When cleaning your register, use a dry, soft cloth. Never use solvents, such as benzine and/or thinner.**
The use of such chemicals will lead to discoloration or deterioration of the cabinet.
- **The register plugs into any standard wall outlet (local voltage $\pm 10\%$ AC) which utilizes a dedicated ground circuit.**
Please note that other electrical devices on the same electrical circuit could cause the register to malfunction.
- **If the register malfunctions, call your local 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.**
- **Never disconnect the peripheral while the register remains plugged into the AC outlet.**

PRECAUTION

This Electronic Cash Register has a built-in memory protection circuit which is supported by rechargeable batteries.

It is important to know that all batteries will, in time, dissipate their charge even if not used. Therefore to insure an adequate charge in the protection circuit, and to prevent any possible loss of memory during or after installation, it is recommended that each unit be allowed to recharge for a period of 24 to 48 hours prior to and during use by the customer.

In order to charge the batteries, the machine must be plugged in. This recharging precaution can prevent unnecessary equipment malfunctions or service calls.

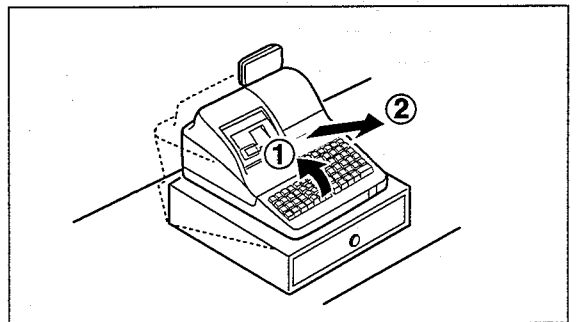
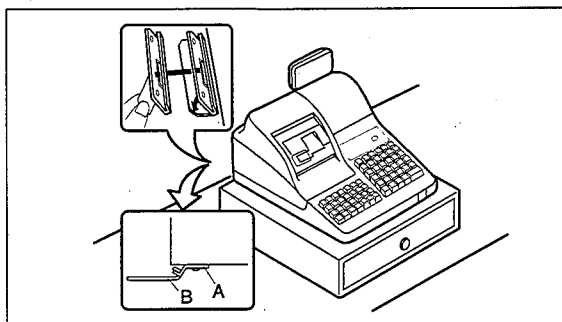
FIXING OF THE CASH REGISTER

To avoid instability of the cash register when the drawer is open, fix it to the platform by using the angle bracket on the bottom of the drawer and the supplied fixing angle bracket.

How to fix

- (1) Remove the dust from the part to attach the fixing angle bracket to.
- (2) Peel off the adhesive tape on the fixing angle bracket.
- (3) Hook the above-mentioned fixing angle bracket (B) into the angle bracket of the drawer (A) and attach the bracket (B) to the platform.

To move the cash register, lift up the front of the drawer (①) and pull it forward (②).



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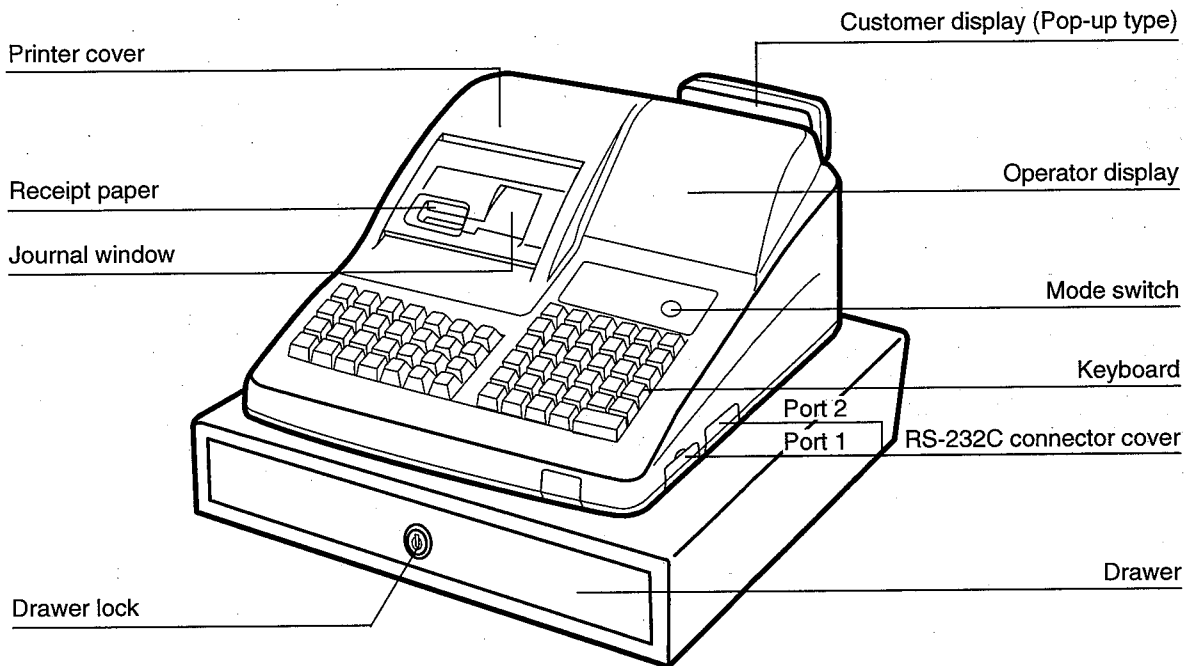
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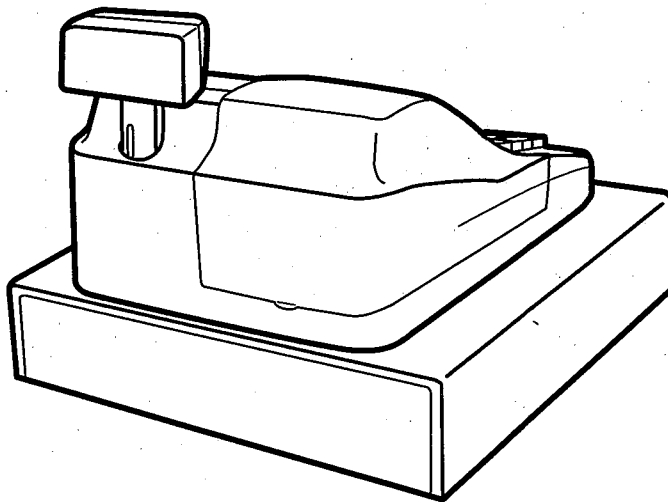
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EXTERNAL VIEW

■ Front view



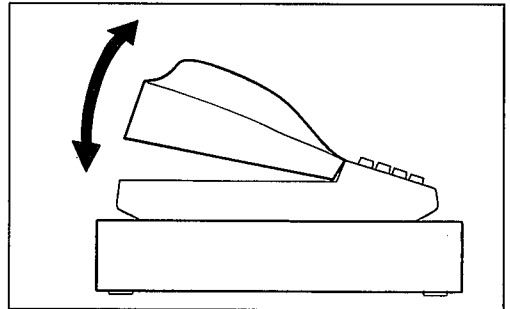
■ Rear view



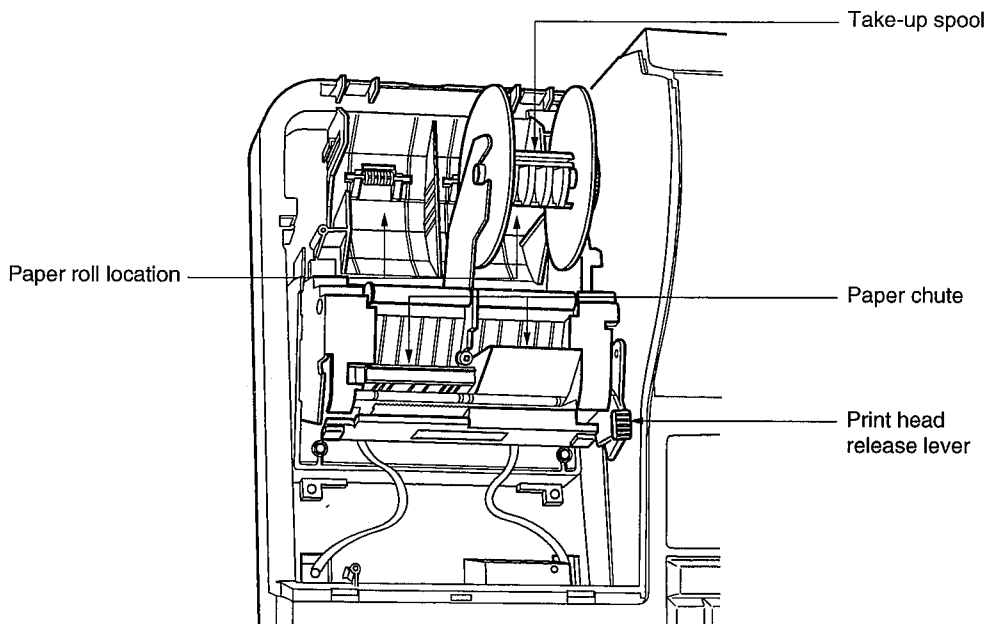
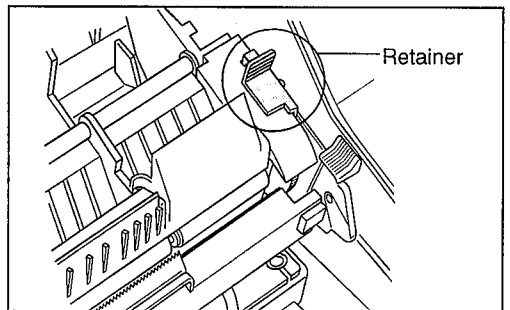
PRINTER

The printer is a receipt/journal dual station type thermal printer, and therefore it does not require any type of ink ribbon or cartridge.

When removing the printer cover, lift up its rear. When installing the printer cover, insert the front tabs into the pawls of the cabinet and close the cover in the direction shown.



Your register is shipped with the print head in the up position which is held in this position by a white retainer. Be sure to remove this retainer (see the figure at the right) and push down the print head release lever before you use the register.



Print head release lever

The print head can be lifted by the green lever on the right side of the printer. Pulling the lever forward lifts the print head up. If the paper becomes jammed and you need to place the head in the up position, you should pull the lever even toward you and proceed with the removal of the jammed paper.

Note

Do not attempt to remove the paper roll with the head in the down position. This may result in damage to the printer and print head.





























KEYBOARD

1 Standard keyboard layout

↑ RECEIPT	↑ JOURNAL	CASH #	CL	7	8	9	PLU/ SUB	UPC	AMT	SCALE	OPEN TARE	AUTO
RCPT	SLIP	RFND	@/ FOR	4	5	6	5	10	15	20	TAX1 SHIFT	FS SHIFT
RA	⊖1	VOID	NC	1	2	3	4	9	14	19	TAX2 SHIFT	FS TEND
PO	%1	FINAL	PBLU	0	00	.	3	8	13	18	CHK	CH
							2	7	12	17	MDSE SBTL	SBTL
							1	6	11	16	CA/AT	

Note

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

	Receipt paper feed key		UPC key
	Journal paper feed key		Slip print key
	} Numeric keys		Percent 1 key
			Cashier code entry key
			Receipt print key
			Discount 1 key
			New charge account balance key
	Multiplication/split-pricing key		Previous balance lookup key
	Clear key		Final key
	} Department keys		Amount key
			Automatic sequencing key
	Price lookup/subdepartment key		Received-on-account key
	} Tax 1 and tax 2 shift keys		Paid-out key
			Refund key

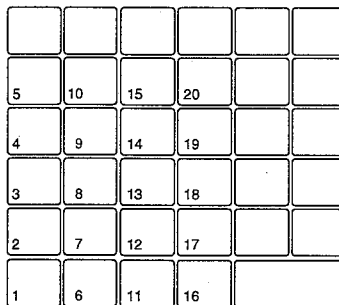
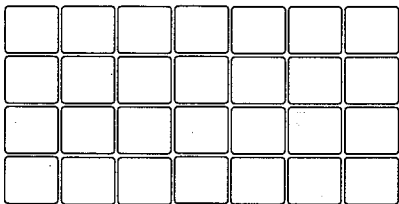
<input type="text" value="VOID"/>	Void key	* <input type="text" value="INQ"/>	UPC inquiry key
<input type="text" value="SCALE"/>	Scale key	* <input type="text" value="AUTO 2"/>	} Automatic sequencing 2 thru 10 keys
<input type="text" value="OPEN TARE"/>	Open tare key	} <input type="text" value="AUTO 10"/>	
<input type="text" value="CH"/>	Charge key	* <input type="text" value="RA2"/>	Received-on-account 2 key
<input type="text" value="CHK"/>	Check key	* <input type="text" value="PO2"/>	Paid-out 2 key
<input type="text" value="MDSE SBTL"/>	Merchandise subtotal key	* <input type="text" value="CH2"/>	} Charge 2 thru 5 keys
<input type="text" value="SBTL"/>	Subtotal key	} <input type="text" value="CH5"/>	
<input type="text" value="CA/AT"/>	Cash/amount tendered key	* <input type="text" value="CA2"/>	Cash total 2 key
<input type="text" value="FS SHIFT"/>	Food stamp shift key	* <input type="text" value="CONV1"/>	} Conversion 1 thru 4 keys (for currency conversion)
<input type="text" value="FS TEND"/>	Food stamp tendered key	} <input type="text" value="CONV4"/>	
* <input type="text" value="21"/>	} Department keys	* <input type="text" value="CHK2"/>	Check 2 key
} <input type="text" value="50"/>		* <input type="text" value="RFND SALE"/>	Refund sales key
* <input type="text" value="TAX3 SHIFT"/>	} Tax 3 and Tax 4 shift keys	* <input type="text" value="BIRTH"/>	Birthday date entry key
* <input type="text" value="TAX4 SHIFT"/>		* <input type="text" value="1"/>	} Direct price lookup/subdepartment keys
* <input type="text" value="%2"/>	} Percent 2 thru 4 keys	* <input type="text" value="68"/>	
} <input type="text" value="%4"/>		* <input type="text" value="NON DELETE"/>	Non delete key
* <input type="text" value="⊖2"/>	} Discount 2 thru 4 keys	* <input type="text" value="PRICE CHANGE"/>	Price change key
} <input type="text" value="⊖4"/>		* <input type="text" value="P1"/>	} UPC price level 1 thru 3 keys
* <input type="text" value="000"/>	Triple zero key	* <input type="text" value="P3"/>	
* <input type="text" value="#"/>	Non-add code key	* <input type="text" value="SRVC"/>	Service key
* <input type="text" value="NS"/>	No-sale key	* <input type="text" value="DEPO"/>	Deposit key
* <input type="text" value="TAX"/>	Tax key	* <input type="text" value="DEPO RFND"/>	Deposit refund key
* <input type="text" value="DEPT #"/>	Department no. entry key		
* <input type="text" value="REPEAT"/>	Repeat key		

Note

The standard keyboard is not equipped with those keys that are marked with (*).

2 Standard key number layout

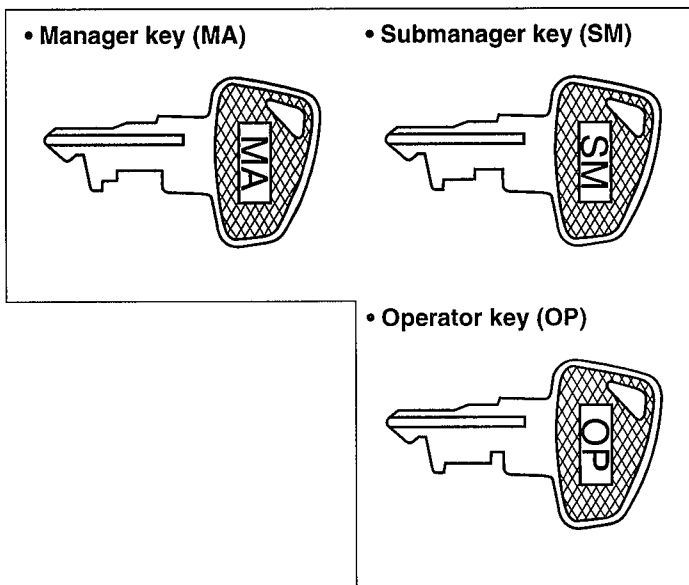
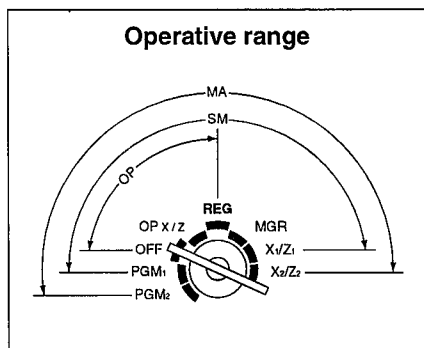
These key numbers are used for positioning of department keys and direct PLU keys. Refer to pages 89 and 98. This layout can be changed by your dealer.



KEYS AND SWITCHES

1 Mode switch and mode keys

The mode switch can be operated by inserting one of the three supplied mode keys - manager (MA), submanager (SM), and operator (OP) keys. These keys can be inserted or removed only when the switch is in the "REG" or "OFF" position.



The mode switch has these settings:

- OFF:** The OFF mode locks all register operations. No change occurs to register data.
- OP X/Z:** This setting allows cashiers to take X or Z reports for their sales information. (This setting may be used only when your register has been programmed for "OP X/Z mode available" in the PGM2 mode.) It can also be used for displaying the time. And it can be used to toggle receipt state "ON" and "OFF" by pressing the **RCPT** key.
- REG:** For entering sales
- PGM1:** To program those items that need to be changed often: e.g., unit prices of departments, PLUs or UPCs, and percentages.
- PGM2:** To program all PGM1 programs and those items that do not require frequent changes: e.g., date, time, or a variety of register functions
- MGR:** For manager's and submanager's entries
The manager can use this mode to make entries that are not permitted to be made by cashiers - for example, after-transaction voiding and override entry.
- X1/Z1:** To take the X/Z report for various daily totals
- X2/Z2:** To take the X/Z report for various periodic (weekly or monthly) accumulation.

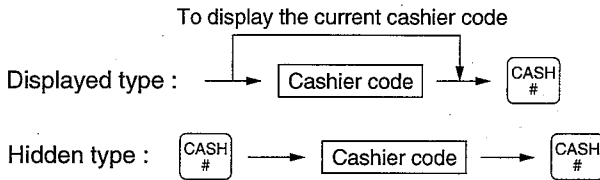
2 Cashier code entry key

Cashier codes are available in two types: **Hidden type**, which is not displayed (always "-00-"), and **Displayed type**, which is displayed ("-01-"~"-99-"). When the cashier code is assigned by one the following procedures, the register prints the two-digit cashier code (the hidden type will print: " * * ") and the cashier name both on the receipt and journal for every transaction.

To select which Cashier codes are available prior to use, please consult your local Sharp dealer.

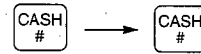
Procedure

■ Sign-on



■ Sign-off

Displayed type / Hidden type :



Note

The cashier code will be entered in the REG, MGR, OP X/Z, X1/Z1, or X2/Z2 mode.


Please note that the cashier code must be signed on when selecting the "the individual cashier reading and resetting" reports.

3 Receipt (ON-OFF) function

This function permits (when the function is in the ON status) or prohibits (when the function is in the OFF status) automatic receipt printing. When the receipt function is in the OFF status, the "RCPT OFF" indicator "_" will light up.

Use the following procedure.

Procedure

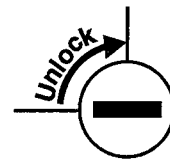
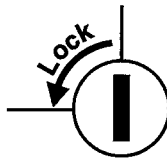
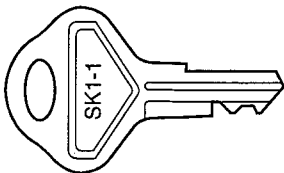
1. Turn the mode switch to the OP X/Z position.
2. Press the  key to change the receipt printing status (ON or OFF).

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".

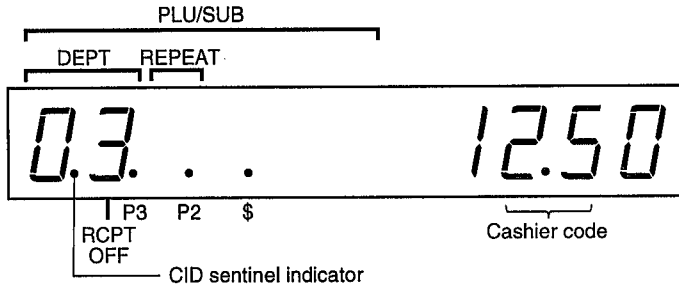
4 Drawer lock key

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



DISPLAYS

Operator display



Customer display (Pop-up type)



Amount: Appears in the far-right eight (max.) positions.

Cashier code: Appears in the second and third positions (two digits).

Number of repeats for repetitive registrations:

The number of repeats is displayed, starting at "2" and incremented with each repeat.

When you have registered ten times, the display will show "0."

Example: (2 → 3 → 4 9 → 0 → 1 → 2 ...)

Receipt function status:

The indicator "_" appears in the ninth position when the receipt function is put in the OFF status.

Time: Appears in the far-right six positions (hour-minute-"A" or hour-minute-"P") in the OP X/Z, REG, or MGR mode. "A" is displayed in the morning (AM), and "P" in the afternoon (PM). In the REG, or MGR mode, press the key to display the time.

Machine state symbols

- P :** Appears in the tenth place during programming or when the slip printing is compulsory.
- E :** Appears in the tenth place when an error is detected.
- (Floating):** Appears when a minus department or PLU/subdepartment or UPC entry is made or when a discount, refund, or void entry is made.
- o :** Appears in the tenth place when the tax-included subtotal is displayed or when the amount tendered is smaller than the sale amount.
- c :** Appears in the tenth place when the thru key is pressed to calculate a subtotal in foreign currency.
- F :** Appears in the tenth place when a transaction is finalized by pressing the , , , , or thru key.
- [:** Appears in the tenth place when the change due amount is displayed.
- U :** Appears when the validation printing is compulsory.
- u :** Appears in the tenth place when the key is pressed in the MGR mode, indicating the entry into the VOID mode. While your register is in the VOID mode, this symbol continues to be in the display except when department numbers, PLU numbers or tax-included subtotals are displayed. Also appears when a subtotal void is made.
- :** Appears right below the tenth place when the cash in drawer amount exceeds a programmed sentinel amount. The sentinel check is performed for the total cash in drawer.
- (Sentinel lamp)**
 - (P3)** Appears right below the ninth place when the price level is shifted to the level 3.
 - (P2)** Appears right below the eighth place when the price level is shifted to the level 2.
 - (\$)** Appears right below the seventh place when the item amount is displayed at scale entry.
- r :** Appears in all places when the key is pressed to activate the REFUND SALES mode.

PRIOR TO ENTRIES

1 Preparations for entries

Before registrations, insert the operator key into the mode switch and turn it to the REG position and check the following items:

■ Receipt and journal paper rolls

If the receipt and journal paper rolls are not set in the machine or there are low rolls, install new ones according to section "5. Installing and removing the paper rolls" described in the "OPERATOR MAINTENANCE" section.

Receipt function

You can disable receipt printing in the REG mode to save paper using the receipt function. To disable receipt printing, press the **[RCPT]** key in the OP X/Z position. This key toggles the receipt printing status ON and OFF. To check the receipt printing status, turn the mode switch to the OP X/Z position or press the **[CL]** key in the REG mode. When the function is in the OFF status, the receipt off indicator "_" illuminates. Even if the function is in the OFF status, the register prints reports, so always install a receipt roll regardless of the status.

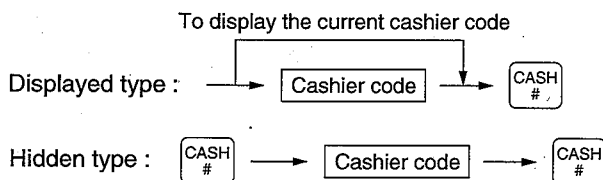
■ Cashier assignment

Cashier codes are available in two types: **Hidden type**, which is not displayed (always "-00-"), and **Displayed type**, which is displayed ("-01-"~"-99-"). When the cashier code is assigned by one of the following procedures, the register prints the two-digit cashier code (the hidden type will print: "**") and the cashier name both on the receipt and journal for every transaction.

To select which Cashier codes are available prior to use, please consult your local Sharp dealer.

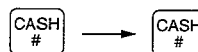
Procedure

■ Sign-on



■ Sign-off

Displayed type / Hidden type :



2 Error warning

In the following examples, your register will go into an error state accompanied with a warning beep and the error symbol "E" on the display. Clear the error state by pressing the **[CL]** key and take recommended action. Please refer to the error code table on page 172.

- When you enter an over 32-digit number (entry limit overflow): Cancel the entry and re-enter a acceptable number.
- When you make an error in key operation: Clear the error and continue operation.
- 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 displayed by pressing the **[CL]** key and press the **[CA1]**, **[CA2]**, **[CHK]**, **[CHK2]**, or **[CH]** thru **[CH5]** key to finalize the transaction.

ENTRIES

1 Item entries

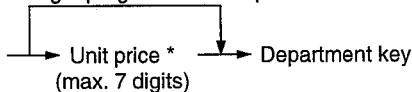
Single item entries

Procedure

Department entries (direct department entries)

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

When using a programmed unit price



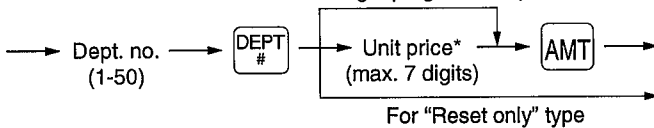
*Less than the programmed upper limit amounts

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)

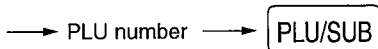
When using a programmed price



*Less than the programmed upper limit amounts

PLU entries (indirect PLU entries)

Enter a PLU number and press the PLU/SUB key.

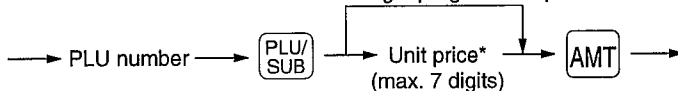


Note

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

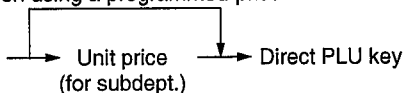
When using a programmed price



*Less than the programmed upper limit amounts

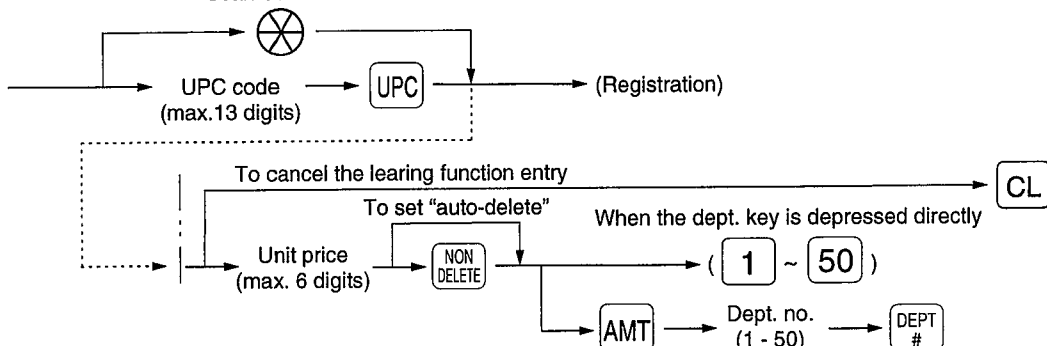
PLU entries (direct PLU entries)

When using a programmed price



UPC entries

Scan UPC code



Example

Key operation

1200

 8
 5 680
 2
 11 1200

 5012345678900

Print

DPT. 03	\$12.00
DPT. 05	\$5.00
DPT. 08	\$2.00
DPT. 05	\$6.80
PL000002	\$1.50
PL000011	\$12.00
PL000008	\$3.50
5012345678900#	
APPLE	\$2.50
CASH	\$45.30

Repeat entries

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

You can use the key to repeat entry instead of department, , direct PLU, or key.

Example

Key operation

Repeated department entry (direct)	}	200	<input type="button" value="8"/>
			<input type="button" value="8"/>
			<input type="button" value="8"/>
Repeated department entry (indirect)	}	5 <input type="button" value="DEPT #"/> 680	<input type="button" value="AMT"/>
			<input type="button" value="AMT"/>
			<input type="button" value="AMT"/>
Repeated PLU entry (indirect)	}	10	<input type="button" value="PLU/SUB"/>
			<input type="button" value="PLU/SUB"/>
			<input type="button" value="PLU/SUB"/>
Repeated PLU entry (direct)	}		<input type="button" value="51"/>
			<input type="button" value="51"/>
			<input type="button" value="51"/>
Repeated subdepartment entry	}	60	<input type="button" value="PLU/SUB"/>
		500	<input type="button" value="AMT"/>
			<input type="button" value="AMT"/>
Repeated UPC entry	}	5012345678900	<input type="button" value="UPC"/>
			<input type="button" value="UPC"/>
			<input type="button" value="UPC"/>
Repeated department entry (direct) using the repeat key	}	600	<input type="button" value="2"/>
			<input type="button" value="REPEAT"/>
			<input type="button" value="REPEAT"/>
			<input type="button" value="CAIAT"/>

Print

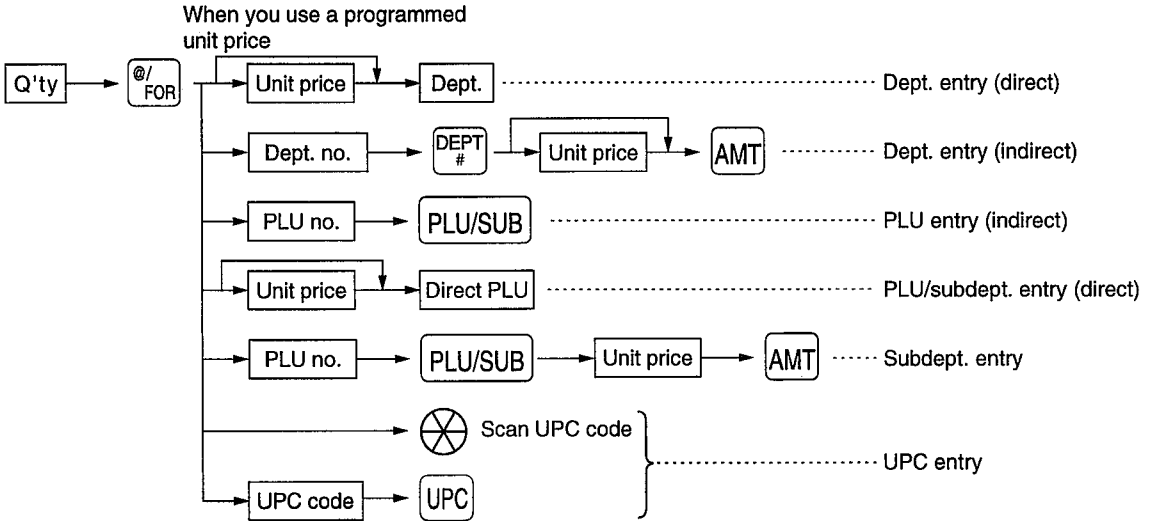
DPT. 08	\$2.00
DPT. 08	\$2.00
DPT. 08	\$2.00
DPT. 05	\$6.80
DPT. 05	\$6.80
PL000010	\$7.15
PL000010	\$7.15
PL000010	\$7.15
PL000051	\$2.85
PL000051	\$2.85
PL000060	\$5.00
PL000060	\$5.00
5012345678900#	
APPLE	\$2.50
5012345678900#	
APPLE	\$2.50
DPT. 02	\$6.00
DPT. 02	\$6.00
DPT. 02	\$6.00
CASH	\$79.75

■ Multiplication entries

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

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

Procedure



- After scanning a UPC code or pressing the **UPC** key, you may be required to enter a unit price with the display "-----". Enter the unit price using the **AMT** key and department no. with the **DEPT #** key.
- Q'ty: Up to four digits integer + three digits decimal
- Unit price: Less than the programmed upper limit
- Q'ty x unit price: Up to seven digits

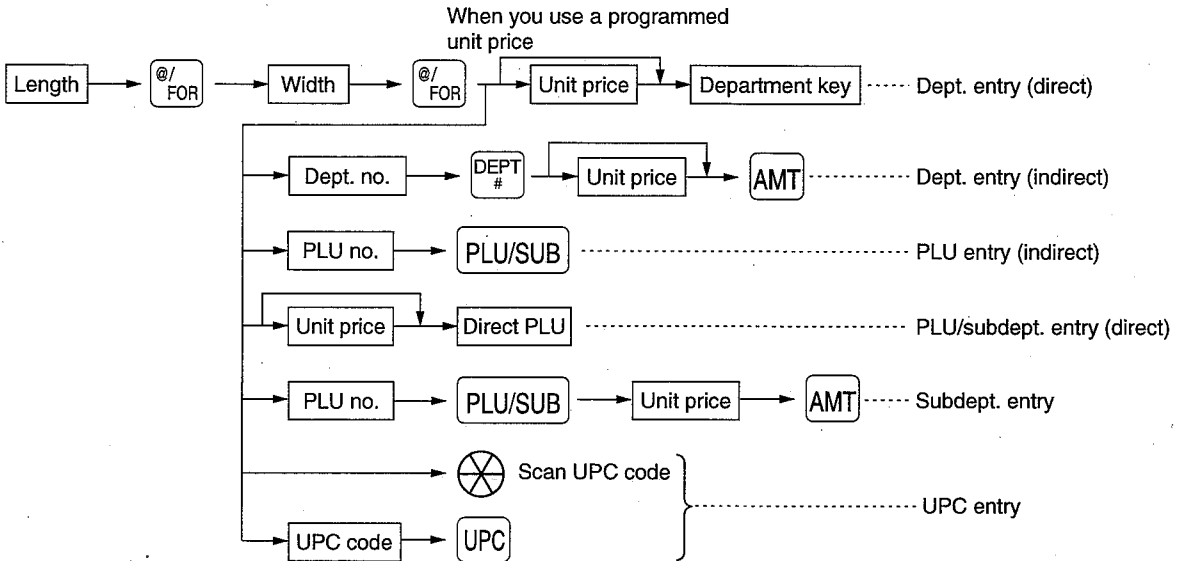
Example

	Key operation	Print
Department entry (direct)	7 . 5 /FOR 165 8	DPT. 08 7.5 @ \$1.65 \$12.38
Department entry (indirect)	2 /FOR 5 DEPT # 250 AMT	DPT. 05 2 @ \$2.50 \$5.00
PLU entry	15 /FOR 13 PLU/SUB	PL000013 15 @ \$2.10 \$31.50
Direct PLU entry	8 . 25 /FOR SB	PL000058 8.25 @ \$3.00 \$24.75
Subdepartment entry	3 /FOR 60 PLU/SUB 100 AMT	PL000060 3 @ \$1.00 \$3.00
UPC entry	5 /FOR 5012345678900 UPC CA/AT	5012345678900# APPLE 5 @ \$2.50 \$12.50
		CASH \$89.13

■ Successive multiplication entries

This function is practical for such entries as a sale of an item sold by area (square foot).

Procedure



- After scanning a UPC code or pressing the **UPC** key, you may be required to enter a unit price with the display "-----". Enter the unit price using the **AMT** key and department no. with the **DEPT #** key.
- Length or width: up to seven digits (4-digit integer + 3-digit decimal)
- Unit price: less than the programmed upper limit
- Length x Width x Unit price: up to seven digits

Note For actual use of this function, consult your dealer.

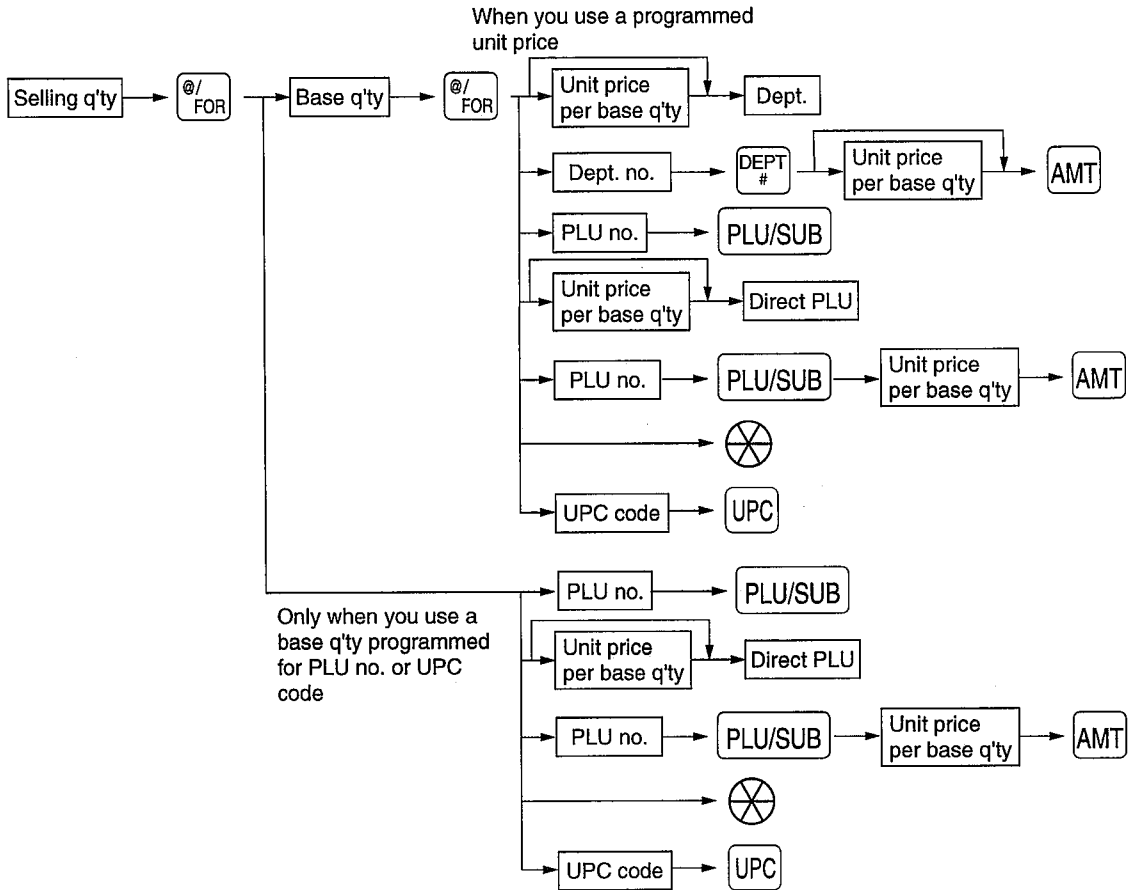
Example

	Key operation	Print
Department entry	3 @/FOR	3 @ 4 @ \$4.00
	4 @/FOR	
PLU entry	400 5	DPT.05 \$48.00
	1 • 5 @/FOR	1.5 @ 2.5 @ \$3.00
	2 • 5 @/FOR	PL000008 \$11.25
Subdepartment entry	8 PLU/SUB	1.75 @ 1.75 @ \$6.00
	1 • 75 @/FOR	PL000006 \$18.38
	1 • 75 @/FOR	4 @ 5 @ \$5.00
	6 PLU/SUB	5099887654302# \$100.00
UPC entry	600 AMT	CASH \$177.63
	4 @/FOR	
	5 @/FOR	
	5099887654302 UPC	
	CA/AT	

■ Split-pricing entries

You will use this function when your customer wants to purchase items normally sold in bulk.

Procedure



- After scanning a UPC code or pressing the **UPC** key, you may be required to enter a unit price with the display "-----". Enter the unit price using the **AMT** key and department no. with the **DEPT #** key.
- Selling quantity: Up to four digits integer + three digits decimal
- Base quantity: Up to two digits (integer)

Note For actual use of this function, consult your dealer.

Example

	Key operation	Print
Department entry	7 @/FOR	7 @ 10/ \$6.00
	10 @/FOR	
	600 7	
PLU entry	8 @/FOR	DPT.07 8 @ 5/ \$3.00
	5 @/FOR	PL000035 5 @ 6/ \$8.75
	35 PLU/SUB	5045678912304# \$7.30
UPC entry	5 @/FOR	CASH \$16.30
	6 @/FOR	
	5045678912304 UPC	

■ Single item cash sale (SICS) 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 UPCs.
- The transaction is finalized and the drawer opens as soon as you press the department key, **AMT** key, **PLU/SUB** key, the direct PLU key or **UPC** key.

Example

Selling a \$2.50 item (dept. 9, set for SICS) for cash

Key operation	Print				
250					
For finishing the transaction → 9	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">DPT. 09</td> <td style="text-align: right;">\$2. 50</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">\$2. 50</td> </tr> </table>	DPT. 09	\$2. 50	CASH	\$2. 50
DPT. 09	\$2. 50				
CASH	\$2. 50				

Note

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

SIF entries

- If entries to a department, PLU/subdepartment or UPC set for SIF follows entries to departments, PLUs/subdepartments or UPC not set for SIF, the transaction is finalized immediately as a cash sale.
- Like the SICS function, this function is available for single-item cash settlement.

Example

Selling a \$17.45 item (dept. 8, normal) and another \$15.00 item (dept. 9, set for SIF) for cash

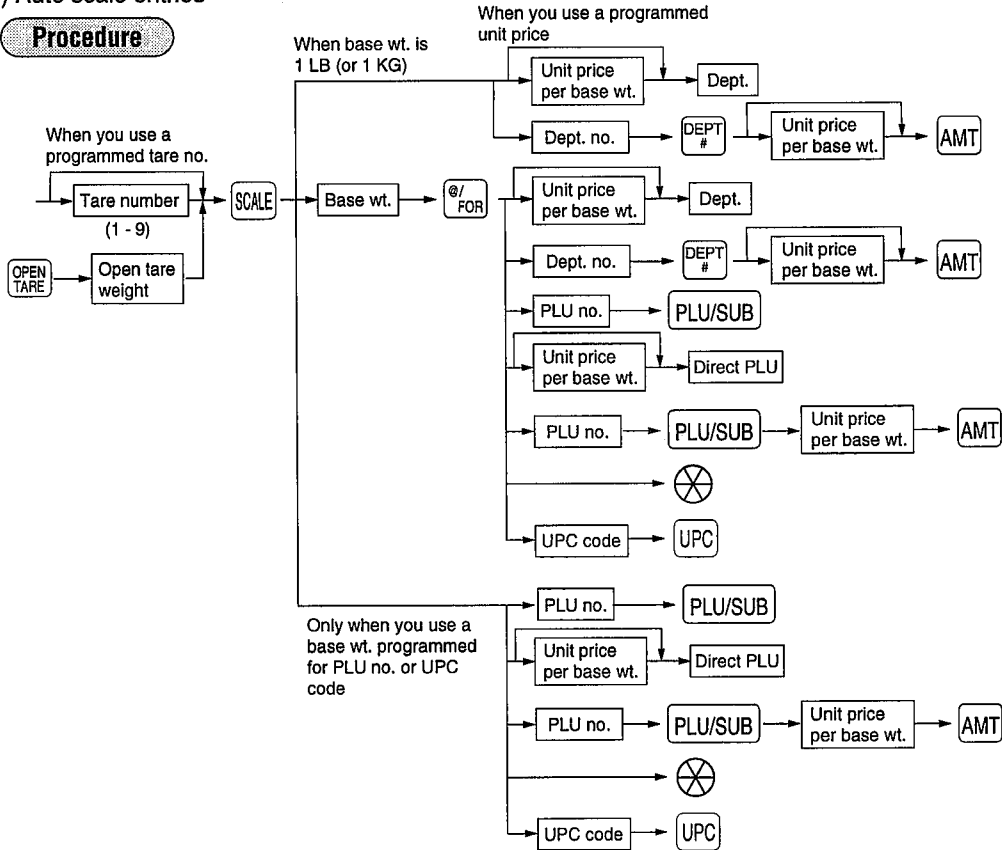
Key operation	Print						
1745 8							
1500							
For finalizing the transaction → 9	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">DPT. 08</td> <td style="text-align: right;">\$17. 45</td> </tr> <tr> <td>DPT. 09</td> <td style="text-align: right;">\$15. 00</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">\$32. 45</td> </tr> </table>	DPT. 08	\$17. 45	DPT. 09	\$15. 00	CASH	\$32. 45
DPT. 08	\$17. 45						
DPT. 09	\$15. 00						
CASH	\$32. 45						

Scale entries

For making entries for weighed items, a scale must be connected where by the weight is automatically read from the scale. To make refund entries, the weight is entered manually while the scale platter is empty and reads zero.

i) Auto scale entries

Procedure



- Open tare weight: Up to 5 digits (integer + decimal)
- Net weight: Up to 5 digits (integer + decimal)
- Base weight: Up to 2 digits (integer)

Note

- The register can be programmed with up to nine tare tables and allows different tares to be assigned to them.
- When the **SCALE** key is pressed, the weight is automatically read from the connected scale (option) and the net weight appears in the register display.
- When the item is programmed for "Scale compulsory", it is not necessary to press the **SCALE** key.

Example

Selling these items for cash

Dept./PLU no.	Unit price	Weight (LB)
Dep. 1	\$2.00	32.45
PLU no. 1	(\$7.15)	32.45 (base wt.: 15)

Key operation

SCALE 200 **1**
SCALE 1 **PLU/SUB**
CAAT

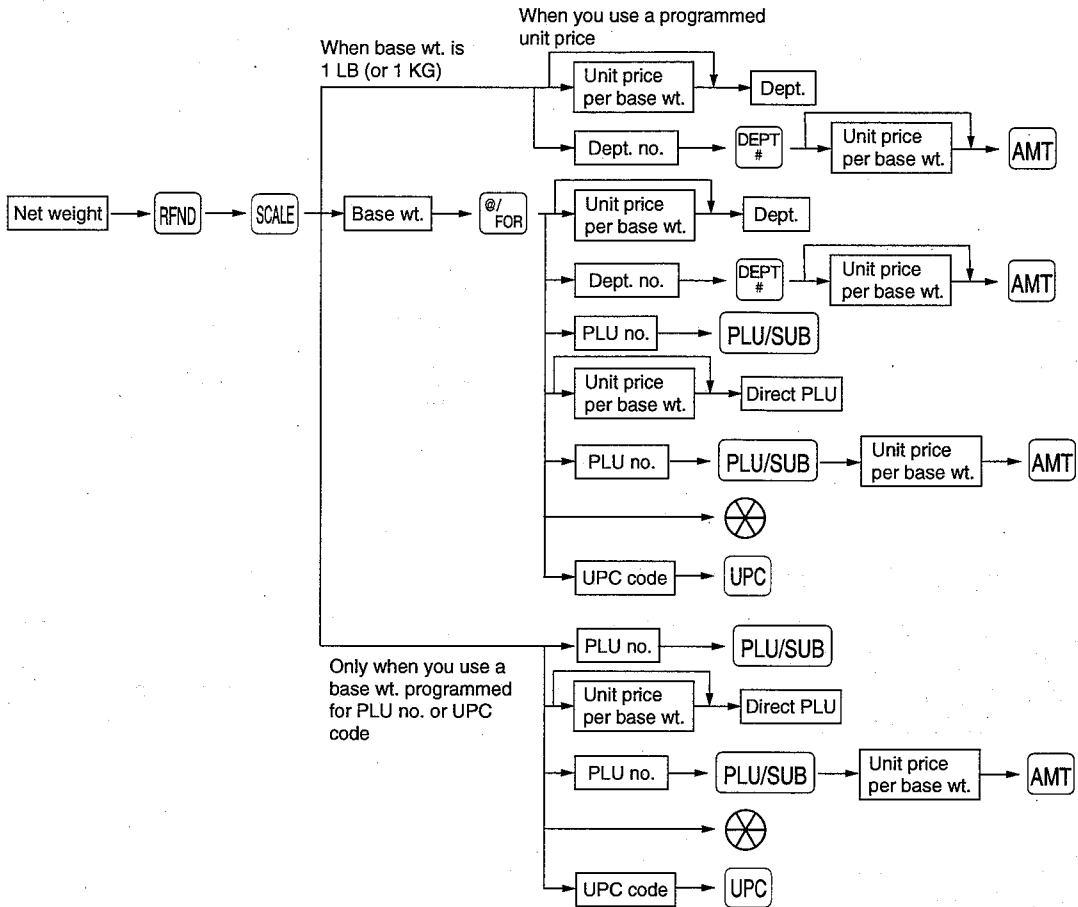
Print

```

32.45 lb
  @ $2.00/lb
DPT. 01          $64.90
32.45 lb
  @ 15/ $7.15/lb
PL000001        $15.47
CASH          $80.37
    
```


ii) Manual scale entries for refunds only

Procedure



- Net weight: Up to 5 digits (integer + decimal) which is from the customer's receipt.
- Base weight: Up to 2 digits (integer)

Example

Selling these items for cash

Dept./PLU no.	Unit price	Weight (LB)
Dep. 1	\$2.00	32.45
PLU no. 1	(\$7.15)	32.45 (base wt.: 15)

Key operation

32 . 45 RFND SCALE 200 1
 32 . 45 RFND SCALE 1 PLU/SUB
 CAIAT

Print

```

MAN WT
32.45 lb
@ $2.00/lb
DPT. 01 R-64.90
"RETURNED FOR CREDIT"
MAN WT
32.45 lb
@ 15/ $7.15/lb
PL000001 R-15.47
"RETURNED FOR CREDIT"

CHANGE $80.37
    
```

■ Linking PLU/UPC entries

Operation is the same as normal PLU's/UPC's. When this PLU/UPC is entered, the linked PLU's amount is included and the linked PLU's label is printed automatically. Only a 1st PLU is affected by the status shift keys

(TAX1 SHIFT, TAX2 SHIFT, TAX3 SHIFT, TAX4 SHIFT or FS SHIFT key). The percent calculation is in effect for the amount of the 1st ranking PLU.

Example

When PLU no. 21 is linking PLU nos. 25,26,27 as follows

Key operation	Print										
21 PLU/SUB CAIAT	<table border="1"> <tbody> <tr> <td>PL000021</td> <td style="text-align: right;">\$3.50</td> </tr> <tr> <td>PL000025</td> <td style="text-align: right;">\$3.00</td> </tr> <tr> <td>PL000026</td> <td style="text-align: right;">\$2.00</td> </tr> <tr> <td>PL000027</td> <td style="text-align: right;">\$8.00</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">\$16.50</td> </tr> </tbody> </table>	PL000021	\$3.50	PL000025	\$3.00	PL000026	\$2.00	PL000027	\$8.00	CASH	\$16.50
PL000021	\$3.50										
PL000025	\$3.00										
PL000026	\$2.00										
PL000027	\$8.00										
CASH	\$16.50										

■ Age verification (Birthday entry)

The age verification function is used for prohibiting to sell goods (departments, PLUs, or UPCs) for certain aged persons based on a registered birthday.

When a department/PLU/UPC for which a figure other than zero (01 to 99) has been programmed as the age limitation is entered, a birthday entry must be completed.

Procedure

→ XXXXXX → BIRTH
 Birthday (five or six digits)

Note

- A birthday entry can be performed two or more times at any point during a transaction, however the last entered birthday remains in effect.
- You can enter the date as far back as 98 years.
 [Ex.] When the current year is 1998 : you can enter the year 1900-1998.
 When the current year is 2001 : you can enter the year 1903-2001.

Example

Oct. 2, 1985 (When dept. 17 is programmed as the age limitation "15".)

Key operation	Print				
100285 BIRTH 300 17 CAIAT	<table border="1"> <tbody> <tr> <td>#10/02/85 DPT. 17</td> <td style="text-align: right;">\$3.00</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">\$3.00</td> </tr> </tbody> </table>	#10/02/85 DPT. 17	\$3.00	CASH	\$3.00
#10/02/85 DPT. 17	\$3.00				
CASH	\$3.00				

When the programmability "Birthday print availability (#2616)" is programmed as "Allow", the birthday is printed.

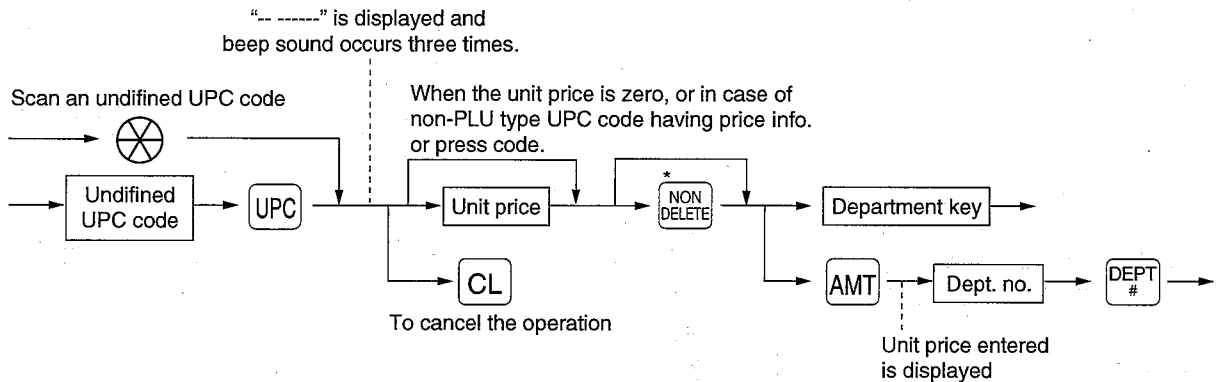
■ UPC learning function

When you enter or scan an undefined code, you are required to enter its unit price and the associated department. The number, associated department and unit price entered are stored in the UPC file and used for future UPC 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 UPC code, the text of its associated department is applied.
- You can use the UPC learning function in the training mode. This may be convenient to practice the scanning system.

Procedure

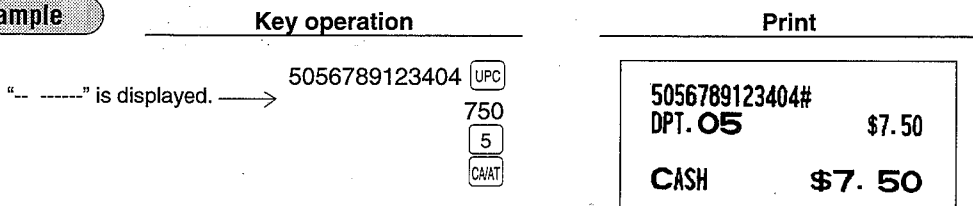


* Press the **NON DELETE** key when you want to exempt the UPC code entered from the non-accessed UPC delete function (deletion by executing #105 in Z1 mode).

Note

For the repeat entry, use the **REPEAT** key.

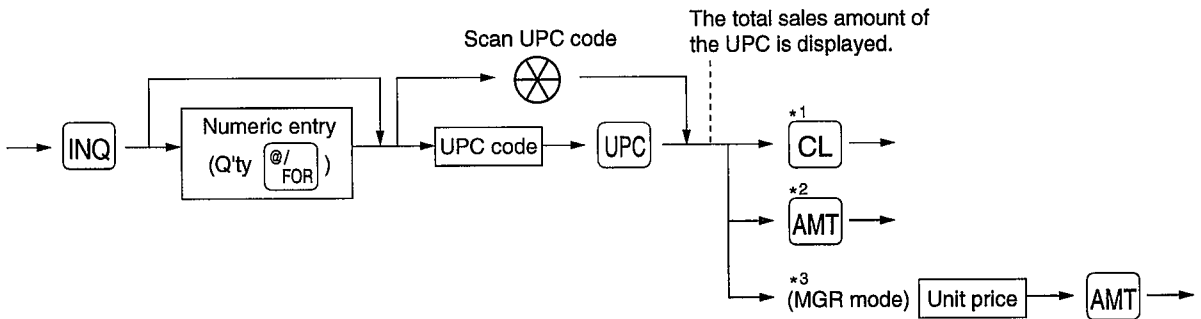
Example



■ Price inquiry (view) function (for UPCs)

You can use this function when you want to know the unit price of the UPC item during transaction in the REG/MGR mode.

Procedure



*1: Press the **CL** key to cancel the the inquiring (view) mode.

*2: Press the **AMT** key when you want to register the unit price of the UPC displayed.

*3: You can change the unit price temporarily in the MGR mode. The unit price which is programmed in PGM mode is not changed (Price override entry).

Note For the repeat entry, use the **REPEAT** key.

Example

Key operation	Print
5 PLU/SUB	
"----" is displayed. →	PL000005 \$2.00
Price is displayed. → 5089123456708	5089123456708#
	GRAPE \$5.20
	CASH \$7.20

■ Price change function (for UPCs)

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

There are two methods for price change:

1. Price change mode

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

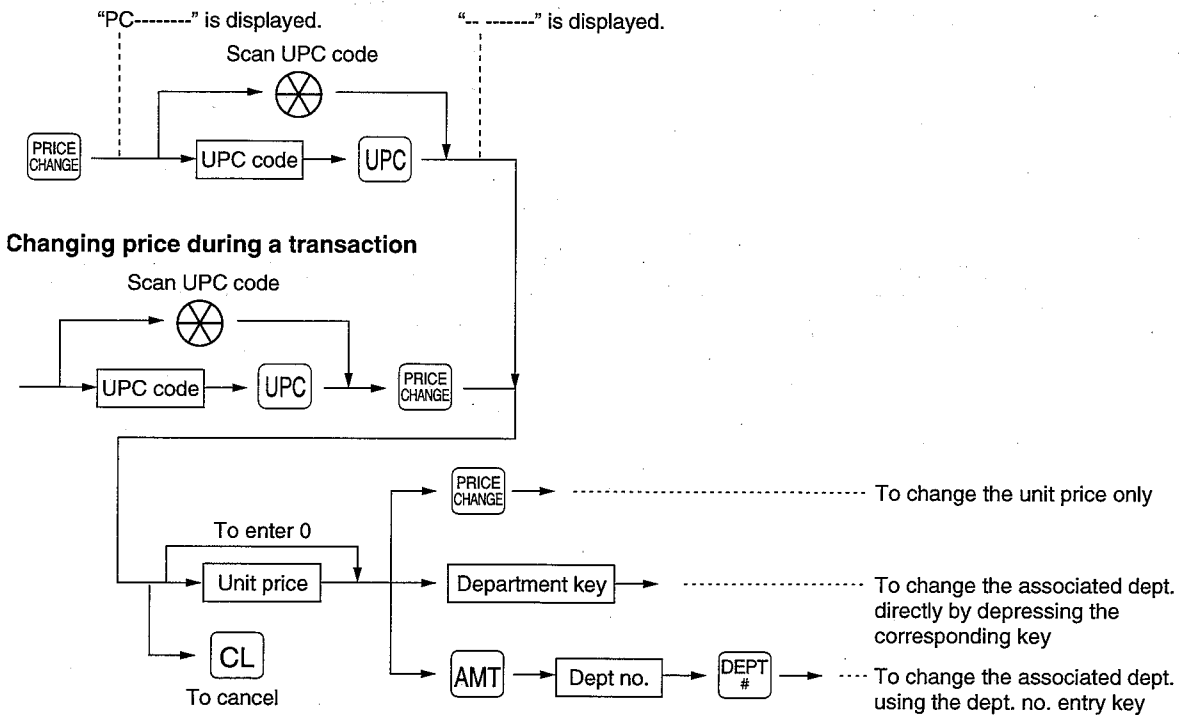
2. Changing price during a transaction

When a wrong UPC price and/or associated department is found during transaction, you can correct them at the time of transaction. With the entry of a 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 price embedded UPC-A codes 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







Example

• Price change mode

Key operation	Print
5087654321106  600  	*PR. CHNG * DEPT03 5087654321106# ORANGE \$6.00

• Changing a price during a transaction




Key operation	Print
5087654321106   600  	5087654321106# ORANGE \$5.30 5087654321106# ORANGE V-5.30 5087654321106# ORANGE \$6.00 CASH \$6.00

The journal printer prints the following format in this position.

*PR. CHNG *
DEPT01

Associated dept. no.

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 UPC entry is voided upon 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.

■ Mix-and-match function (for UPCs)

Each UPC item can be preset to a mix-and-match table. All items that are programmed into the same table are treated as if they belong to one group. Item registration for each associated item is calculated against the table. Each table contains a quantity and specific dollar amount associated with it.

Example

For the case where the total amount is \$7.25 if the quantity of the merchandise PARTS-A, B, and C (whose unit price are each \$1.35) sold reaches 6 in total.

Key operation	Print																				
31111111111 <input type="button" value="UPC"/>	<table border="1"> <tr> <td>31111111111#</td> <td></td> </tr> <tr> <td>PARTS-A</td> <td>\$1.35</td> </tr> <tr> <td>31111111111#</td> <td></td> </tr> <tr> <td>PARTS-A</td> <td>\$1.35</td> </tr> <tr> <td></td> <td>3 @ \$1.35</td> </tr> <tr> <td>32222222221#</td> <td></td> </tr> <tr> <td>PARTS-B</td> <td>\$4.05</td> </tr> <tr> <td>35555555551#</td> <td></td> </tr> <tr> <td>PARTS-C</td> <td>\$0.50</td> </tr> <tr> <td>CASH</td> <td>\$7.25</td> </tr> </table>	31111111111#		PARTS-A	\$1.35	31111111111#		PARTS-A	\$1.35		3 @ \$1.35	32222222221#		PARTS-B	\$4.05	35555555551#		PARTS-C	\$0.50	CASH	\$7.25
31111111111#																					
PARTS-A		\$1.35																			
31111111111#																					
PARTS-A		\$1.35																			
		3 @ \$1.35																			
32222222221#																					
PARTS-B	\$4.05																				
35555555551#																					
PARTS-C	\$0.50																				
CASH	\$7.25																				
3 <input type="button" value="@/ FOR"/> 3222222222 <input type="button" value="UPC"/>																					
3555555555 <input type="button" value="UPC"/>																					
<input type="button" value="CAAT"/>																					

■ Price level shift (for UPCs)

If the multi-price memories is created, the register allows you to program three kinds of unit price for a UPC. The unit price stays respectively at price level 1, price level 2, and price level 3.

When you enter a UPC, you can designate the price level (level 1/2/3) by using price level shift key.

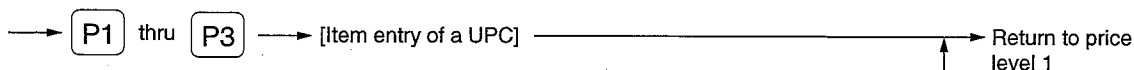
You must program a UPC price level shift mode (i.e. automatic return mode* or lock shift mode**) and the operating modes to be used for UPC price level shift (i.e. both REG and MGR modes or MGR mode alone).

* The automatic return mode automatically shifts the UPC price level back to level 1 after a UPC entry. You can select whether the UPC price level should return each time you enter one item or each time you finalize one transaction.

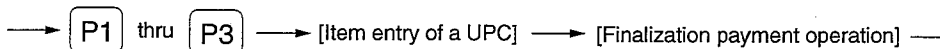
** The lock shift mode holds the current UPC price level until pressing a price level shift key.

Automatic return mode (for price shifts)

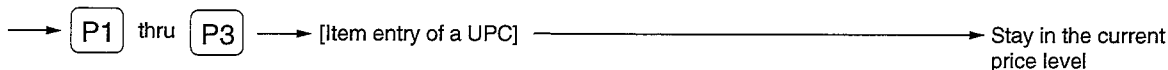
(each item)



(each transaction)



Lock shift mode (for price shifts)



2 Display of subtotals

Your register provides these four types of subtotals:

■ Merchandise subtotal

Press the **MOSE**/**SBTL** key at any point during a transaction. The net sale subtotal - not including tax - will appear in the display.

■ Taxable subtotal

Taxable 1 subtotal

Press the **TAX1**/**SHIFT** and **SBTL** keys in this order at any point during a transaction. The sale subtotal of taxable 1 items will appear in the display.

Taxable 2 subtotal

Press the **TAX2**/**SHIFT** and **SBTL** keys in this order at any point during a transaction. The sale subtotal of taxable 2 items will appear in the display.

Taxable 3 subtotal

Press the **TAX3**/**SHIFT** and **SBTL** keys in this order at any point during a transaction. The sale subtotal of taxable 3 items will appear in the display.

Taxable 4 subtotal

Press the **TAX4**/**SHIFT** and **SBTL** keys in this order at any point during a transaction. The sale subtotal of taxable 4 items will appear in the display.

■ Including-tax subtotal (full subtotal)

Press the **SBTL** key at any point during a transaction. The sale subtotal including tax and the symbol " **Ⓞ** " will appear in the display.

■ Food stamp-eligible subtotal

Press the **FS**/**TEND** key at any point during a transaction. The sale subtotal of items eligible for food stamp payment will appear in the display.

3 Finalization of transaction

■ Cash or check tendering

Press the **SBTL** key to get an including-tax subtotal, enter the amount tendered by your customer, then press the **CAVAT** or **CA2** key if it is a cash tender or press the **CHK** or **CHK2** 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 "⌈" will light up. Otherwise your register will show a deficit and the symbol "⌋" will light up. When an amount due remains, tender an amount greater than that is displayed and select the appropriate tender key.

Example

Your customer pays \$10.00 for an including-tax subtotal of \$7.35.

Cash tendering

Key operation	Print
⌋ 1000 CAVAT	***TOTAL \$7.35 CASH \$10.00 CHANGE \$2.65

Check tendering

Key operation	Print
⌋ 1000 CHK	***TOTAL \$7.35 CHECK \$10.00 CHANGE \$2.65

■ Mixed tendering (check + cash)

Example

Your customer pays \$10.00 in check and \$5.00 in cash for an including-tax subtotal of \$14.56.

Key operation	Print
⌋ 1000 CHK 500 CAVAT	***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 **CAVAT** or **CA2** key if it is a cash sale or press the **CHK** or **CHK2** key if it is a check sale. Your register will display the total sale amount.

Example

Selling a \$3.00 item (dept. 6) and another \$7.15 item (PLU no. 10) for cash

Key operation	Print								
300 6 10 PLU/SUB CAVAT	<table border="1"> <tr> <td>DPT. 06</td> <td style="text-align: right;">\$3.00</td> </tr> <tr> <td>PL000010</td> <td style="text-align: right;">\$7.15</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">\$10.15</td> </tr> </table> <p style="text-align: center;">In the case of check sale</p> <table border="1"> <tr> <td>CHECK</td> <td style="text-align: right;">\$10.15</td> </tr> </table>	DPT. 06	\$3.00	PL000010	\$7.15	CASH	\$10.15	CHECK	\$10.15
DPT. 06	\$3.00								
PL000010	\$7.15								
CASH	\$10.15								
CHECK	\$10.15								

■ Charge (credit) sale

Enter items and press the corresponding charge keys (**CH** thru **CH5**).

Example

Selling a \$25.00 item (dept. 6) and a \$32.50 item (dept. 7) and accepting the payment by charge account

Key operation	Print						
2500 6 3250 7 CH	<table border="1"> <tr> <td>DPT. 06</td> <td style="text-align: right;">\$25.00</td> </tr> <tr> <td>DPT. 07</td> <td style="text-align: right;">\$32.50</td> </tr> <tr> <td>CHARGE1</td> <td style="text-align: right;">\$57.50</td> </tr> </table>	DPT. 06	\$25.00	DPT. 07	\$32.50	CHARGE1	\$57.50
DPT. 06	\$25.00						
DPT. 07	\$32.50						
CHARGE1	\$57.50						

Amount tendering operations (i.e., change calculations) can be achieved by the **CH** thru **CH5** key when it has been preset in PGM2 job #2320.

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

Example

Your customer pays \$9.50 in cash and \$40.00 by charge for an including-tax subtotal of \$49.50.


Key operation	Print						
} SBTL 950 CAVAT CH	<table border="1"> <tr> <td>***TOTAL</td> <td style="text-align: right;">\$49.50</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">\$9.50</td> </tr> <tr> <td>CHARGE1</td> <td style="text-align: right;">\$40.00</td> </tr> </table>	***TOTAL	\$49.50	CASH	\$9.50	CHARGE1	\$40.00
***TOTAL	\$49.50						
CASH	\$9.50						
CHARGE1	\$40.00						

Note

Press the **CHK** or **CHK2** key or the **CH** thru **CH5** keys in place of the **CAVAT** key when your customer makes payment with checks or by charge cards.

4 Food stamp calculations

Food stamp tendering

If your customer makes payment (or tendering) in food stamps, obtain the food stamp-eligible subtotal* by pressing the  key and make a food stamp tender entry before entering a cash or check tender.

Note The food stamp-eligible subtotal* depends upon how your register is programmed based on the food stamp-eligibility of the automatic tax on a sale of items eligible for food stamp payment, or whether your register is programmed to allow the automatic tax to be paid with food stamps or not or to exempt taxation. The example below presupposes that your register has been programmed to exempt taxation.

When the amount tendered in food stamps is greater than the food stamp-eligible subtotal:

Your register shows two change due amounts in its display.





The food stamp change due appears at the left of the display in dollars and the cash change at the right in cents.

- When you sell only items eligible for food stamp payment.

Example

Your customer purchases a \$4.25 item (dept.4, taxable 1, eligible for food stamp payment) and another \$4.00 item (PLU no.34, taxable 2, eligible for food stamp payment) and tenders \$10.00 food stamps for them.

Key operation

425 
 34 
 To display the food stamp-eligible subtotal → 
 1000 

Display shows:

IF	0.75
----	------

Food stamp change Cash change

Print

DPT. 04	r ₁ \$4.25
PL000034	r ₂ \$4.00
***TOTAL	\$8.25
FS ST	\$8.25
FS TEND	\$10.00
FS CG	\$1.00
CHANGE	\$0.75






Food stamp change due
Cash change due

- Mixed sale of an item eligible for food stamps and another item not eligible for food stamps

Example

Your customer purchases a \$2.48 item (dept. 5, taxable 1, eligible for food stamps) and another \$5.42 item (dept. 6, nontaxable, ineligible for food stamps) and pays \$5.00 in food stamps and \$5.00 in cash.

Key operation

248 
 542 

 500 
 500 

Display shows:

2F	0.10
----	------

Food stamp change Cash change

Print

DPT. 05	r ₁ \$2.48
DPT. 06	\$5.42
***TOTAL	\$7.90
FS ST	\$2.48
FS TEND	\$5.00
FS CG	\$2.00
CASH CHANGE	\$5.00
	\$0.10

Food stamp change due
Cash change due

When the food stamp tender is smaller than the food stamp-eligible subtotal:

- Accept the remainder in food stamps or in cash or check. If your register is programmed to exempt taxation, additional food stamp tender is not allowed.

Example

Your customer buys a \$3.18 item (dept. 5, taxable 1, eligible for food stamps) and another \$1.24 item (dept.7, taxable 2, eligible for food stamps) and pays \$4.00 in food stamps and the remainder - \$1.00 in cash.

Key operation	Print																		
318 <input type="button" value="5"/>	<table border="1"> <tr> <td>DPT. 05</td> <td>F₁ \$3.18</td> </tr> <tr> <td>DPT. 07</td> <td>F₂ \$1.24</td> </tr> <tr> <td>MDSE ST</td> <td>\$4.42</td> </tr> <tr> <td>TAX2</td> <td>\$0.02</td> </tr> <tr> <td>***TOTAL</td> <td>\$4.44</td> </tr> <tr> <td>FS ST</td> <td>\$4.42</td> </tr> <tr> <td>FS TEND</td> <td>\$4.00</td> </tr> <tr> <td>CASH</td> <td>\$1.00</td> </tr> <tr> <td>CHANGE</td> <td>\$0.56</td> </tr> </table>	DPT. 05	F ₁ \$3.18	DPT. 07	F ₂ \$1.24	MDSE ST	\$4.42	TAX2	\$0.02	***TOTAL	\$4.44	FS ST	\$4.42	FS TEND	\$4.00	CASH	\$1.00	CHANGE	\$0.56
DPT. 05		F ₁ \$3.18																	
DPT. 07		F ₂ \$1.24																	
MDSE ST		\$4.42																	
TAX2		\$0.02																	
***TOTAL		\$4.44																	
FS ST		\$4.42																	
FS TEND		\$4.00																	
CASH		\$1.00																	
CHANGE		\$0.56																	
124 <input type="button" value="7"/>																			
<input type="button" value="FS TEND"/>																			
400 <input type="button" value="FS TEND"/>																			
To enter the → 100 <input type="button" value="CAVAT"/>																			
cash tendering																			
of the remainder																			

Food stamp status shift

Your machine allows you to shift the programmed food-stamp status of each department, thru , percent key, the UPC or the PLU key by pressing the key prior to those keys. After each entry is completed, the programmed food stamp status is resumed.

Example

You sell a \$2.32 item of dept. 2 (food-stamp eligible) as a food-stamp ineligible item and another \$3.18 item of PLU no. 86 (food-stamp ineligible) as a food-stamp eligible item and accept \$4.00 in food stamps and \$2.00 in cash.

Key operation	Print																
232 <input type="button" value="FS SHIFT"/> <input type="button" value="2"/>	<table border="1"> <tr> <td>DPT. 02</td> <td>\$2.32</td> </tr> <tr> <td>PL000086</td> <td>F \$3.18</td> </tr> <tr> <td>***TOTAL</td> <td>\$5.50</td> </tr> <tr> <td>FS ST</td> <td>\$3.18</td> </tr> <tr> <td>FS TEND</td> <td>\$4.00</td> </tr> <tr> <td>FS CG</td> <td>\$0.00</td> </tr> <tr> <td>CASH</td> <td>\$2.00</td> </tr> <tr> <td>CHANGE</td> <td>\$0.50</td> </tr> </table>	DPT. 02	\$2.32	PL000086	F \$3.18	***TOTAL	\$5.50	FS ST	\$3.18	FS TEND	\$4.00	FS CG	\$0.00	CASH	\$2.00	CHANGE	\$0.50
DPT. 02		\$2.32															
PL000086		F \$3.18															
***TOTAL		\$5.50															
FS ST		\$3.18															
FS TEND		\$4.00															
FS CG		\$0.00															
CASH		\$2.00															
CHANGE		\$0.50															
86 <input type="button" value="FS SHIFT"/> <input type="button" value="PLU/SUB"/>																	
<input type="button" value="FS TEND"/>																	
400 <input type="button" value="FS TEND"/>																	
200 <input type="button" value="CAVAT"/>																	

5 Tax calculations

Automatic tax

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

Example

Selling five \$6.70 items (dept. 1, taxable 1) and one \$7.15 item (PLU no. 85, taxable 2) for cash

Key operation

5
670
85

Print

	5 @ \$6.70
DPT. 01	T1 \$33.50
PL000085	T2 \$7.15
MDSE ST	\$40.65
TAX1	\$2.01
TAX2	\$0.29
CASH	\$42.95

Manual tax

Your machine allows you to enter tax manually after item entries.

Example

Selling an \$8.00 item (dept. 7) for cash with 50 cents as tax

Key operation

800
50

Print

DPT. 07	\$8.00
M-TAX	\$0.50
CASH	\$8.50

■ Automatic-tax delete

You can delete the automatic tax on the taxable 1, taxable 2, taxable 3 and taxable 4 subtotal of each transaction by pressing the **TAX** key after the subtotal is displayed.

Example

Selling a \$7.25 item (dept. 1, taxable 1) and another \$5.15 item (dept. 3, taxable 2) for cash and entering the sale as a non-taxable one

Key operation	Print										
725 1	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">DPT. 01</td> <td style="text-align: right;">T1 \$7.25</td> </tr> <tr> <td>DPT. 03</td> <td style="text-align: right;">T2 \$5.15</td> </tr> <tr> <td>TAX1 ST</td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td>TAX2 ST</td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">\$12.40</td> </tr> </table>	DPT. 01	T1 \$7.25	DPT. 03	T2 \$5.15	TAX1 ST	\$0.00	TAX2 ST	\$0.00	CASH	\$12.40
DPT. 01		T1 \$7.25									
DPT. 03		T2 \$5.15									
TAX1 ST		\$0.00									
TAX2 ST		\$0.00									
CASH		\$12.40									
515 3											
TAX1 SBTL											
TAX											
TAX2 SBTL											
TAX											
CAVAT											

If any of the media keys (i.e. cash, check or charge 1 thru charge 5) are programmed as tax delete in PGM2 mode, the tax can be deleted without using the procedures above. In this case, depressing a corresponding media key alone will always cause the programmed tax to be deleted.

Example

When the **CA2** key is programmed as tax delete for the same case with the above example

Key operation	Print												
725 1	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">DPT. 01</td> <td style="text-align: right;">T1 \$7.25</td> </tr> <tr> <td>DPT. 03</td> <td style="text-align: right;">T2 \$5.15</td> </tr> <tr> <td>HDSE ST</td> <td style="text-align: right;">\$12.40</td> </tr> <tr> <td>TAX1</td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td>TAX2</td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td>CASH2</td> <td style="text-align: right;">\$12.40</td> </tr> </table>	DPT. 01	T1 \$7.25	DPT. 03	T2 \$5.15	HDSE ST	\$12.40	TAX1	\$0.00	TAX2	\$0.00	CASH2	\$12.40
DPT. 01		T1 \$7.25											
DPT. 03		T2 \$5.15											
HDSE ST		\$12.40											
TAX1		\$0.00											
TAX2		\$0.00											
CASH2	\$12.40												
515 3													
CA2													

■ Tax status shift

Your machine allows you to shift the programmed tax status of each department, ⓪1 thru ⓪4 , percent key, the UPC or the PLU key by pressing the TAX1 SHIFT , TAX2 SHIFT , TAX3 SHIFT and/or TAX4 SHIFT keys before those keys. After each entry is completed, the programmed tax status of each key is resumed.

Example

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

- One \$13.45 item of dept. 7 (non-taxable) as a taxable 1 item
- One \$7.00 item of PLU no. 25 (non-taxable) as a taxable 1 and 2 item
- One \$4.00 item of dept. 3 (taxable 2) as a non-taxable item
- Two \$10.50 items of dept. 1 (taxable 1) as taxable 2 items

Key operation

```

1345  $\text{TAX1 SHIFT}$   $\text{7}$ 
25  $\text{TAX1 SHIFT}$   $\text{TAX2 SHIFT}$   $\text{PLU/SUB}$ 
400  $\text{TAX2 SHIFT}$   $\text{3}$ 
1050  $\text{TAX1 SHIFT}$   $\text{TAX2 SHIFT}$   $\text{1}$ 
 $\text{1}$ 
 $\text{CAVAT}$ 
    
```

Print

DPT. 07	T ₁ \$13.45
PL000025	T ₁₂ \$7.00
DPT. 03	\$4.00
DPT. 01	T ₂ \$10.50
DPT. 01	T ₂ \$10.50
MDSE ST	\$45.45
TAX1	\$1.23
TAX2	\$1.12
CASH	\$47.80

Note

The entry of a multi-taxable item for PST or GST will be prohibited as follows (for Canada).

In case of; Tax 1: PST, Tax 2: PST,
Tax 3: PST, Tax 4: GST

Taxable 1 and 2 item prohibited
 Taxable 1 and 3 item prohibited
 Taxable 2 and 3 item prohibited
 Taxable 1 and 4 item allowed
 Taxable 2 and 4 item allowed
 Taxable 3 and 4 item allowed

In case of; Tax 1: PST, Tax 2: PST,
Tax 3: GST, Tax 4: GST

Taxable 1 and 2 item prohibited
 Taxable 1 and 3 item allowed
 Taxable 2 and 3 item allowed
 Taxable 1 and 4 item allowed
 Taxable 2 and 4 item allowed
 Taxable 3 and 4 item prohibited

6 Auxiliary entries

■ Percent calculations (premium or discount)

- Your register provides the percent calculation for the merchandise subtotal and item entries. You need to specify in advance whether the register should perform the percent calculation based on the merchandise subtotal or each item entered.
- Percentage: 0.01 to 99.99%

Percent calculation for the merchandise subtotal

Example

Selling four \$1.40 items of dept. 5 and two \$2.25 items of dept. 7; all these items are sold for cash at a premium of 10%
 (This example presupposes that a premium of 10% has been programmed for the [%1] key.)

Key operation	Print
4 <input type="button" value="0/ FOR"/>	
140 <input type="button" value="5"/>	4 @ \$1.40
225 <input type="button" value="7"/>	DPT. 05 \$5.60
<input type="button" value="7"/>	DPT. 07 \$2.25
<input type="button" value="7"/>	DPT. 07 \$2.25
<input type="button" value="MDSE SBTL"/>	MDSE ST \$10.10
<input type="button" value="%1"/>	10.00%
<input type="button" value="CAAT"/>	%1 T1 \$1.01
	CASH \$11.11

Percent calculation for item entries

Example

Selling for cash an \$8.00 item of dept. 6 at a discount of 15% and another \$5.00 item of PLU no. 90 at a discount of 7.5%
 (This example presupposes that a discount of 15% has been programmed for the [%2] key.)

Key operation	Print
800 <input type="button" value="6"/>	
<input type="button" value="%2"/>	DPT. 06 \$8.00
90 <input type="button" value="PLU/SUB"/>	-15.00%
7 <input type="button" value="."/> 5 <input type="button" value="%2"/>	%2 -1.20
<input type="button" value="CAAT"/>	PL000090 \$5.00
	-7.5%
	%2 -0.38
	CASH \$11.42

■ Discount entries

For discount or coupon tenderings, you may use the $\ominus 1$ thru $\ominus 4$ key.

If the discount or tendered coupon is the one applicable to sales, use the vendor coupon or if it is applicable to each department key, use the store coupon.

Discount for the merchandise subtotal

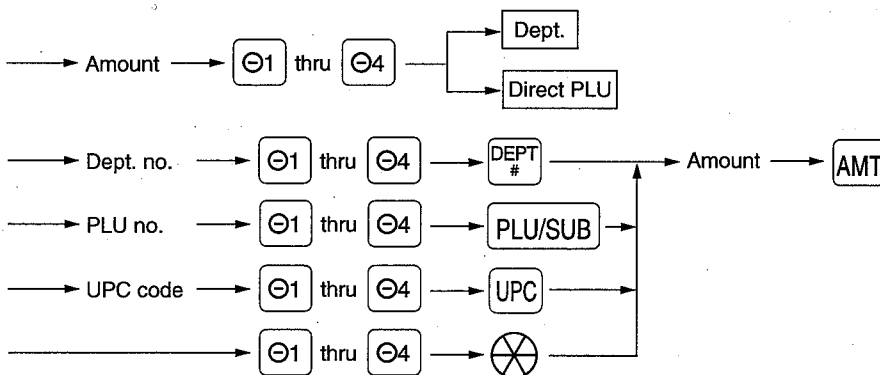
Example

Selling a \$5.75 item of dept. 6 and another \$7.50 item of PLU no. 80 for cash after subtracting the discount amount \$1.00 from the total sale amount
(This example presupposes that the vendor coupon has been programmed for the $\ominus 2$ key.)

Key operation	Print
575 $\ominus 6$	DPT. 06 \$5.75
80 \ominus PLU/SUB	PL000080 \$7.50
100 $\ominus 2$	(-) 2 -1.00
\ominus CASH	CASH \$12.25

Discount for item entries

Procedure



Example

Selling a \$6.75 item of dept. 7 for cash after subtracting the coupon amount 75¢
(This example presupposes that the store coupon has been programmed for the $\ominus 1$ key.)

Key operation	Print
675 $\ominus 7$	DPT. 07 \$6.75
{ 75 $\ominus 1$	(-) 1 -0.75
7 \ominus CASH	CASH \$6.00

Note

* The $\ominus 1$ is entered as a modifier for the department which will be netted by the coupon amount. Such item netting coupon entries may generally be entered at any point within a transaction. Two lines are printed for each entry: The first is the label programmed for the $\ominus 1$ function and the second is related department and $\ominus 1$ amount.

■ Refund entries

If a refund item is the one entered into a department, enter the amount of the refund, then press the **RFND** key and the corresponding department key in this order; and if an item entered into a PLU (or UPC) is returned, enter the corresponding PLU number (or UPC code), then press the **RFND** and **PLU/SUB** (or **UPC**) keys, or press the **RFND** and direct PLU keys without entry of PLU number, in this order.

Example

Receiving the following items returned:
One \$2.50 item of dept.6 and seven \$2.10 items of PLU no.13

Key operation

250 **RFND** **6**
7 ***/FOR**
13 **RFND** **PLU/SUB**
CAIAT

Print

DPT.06	R-2.50
	-7 @ \$2.10
PL000013	R-14.70
CHANGE	\$17.20

■ Refund sales mode

This function can be used only for those item return entries relating to departments and PLUs/subdepartments. Pressing the **RFND SALE** key at the beginning of a transaction causes the register to enter the REFUND SALES mode. All of the REFUND SALES mode entries are automatically handled as refund entries. This mode cannot be finalized by check payment entry.

Example

Receiving the following items returned:
One \$2.50 item of dept.6 and seven \$2.10 items of PLU no.13

Key operation

250 **RFND SALE** **6**
7 ***/FOR**
13 **PLU/SUB**
CAIAT

Print

DPT.06	R-2.50
	-7 @ \$2.10
PL000013	R-14.70
CHANGE	\$17.20

■ Printing of non-add code numbers

Enter a non-add code number such as a customer's 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 it at once.

Example

Selling a \$15.00 item of dept. 6 by charge account to a customer whose code number is 1230

Key operation

1230 **#**
1500 **6**
CH

Print

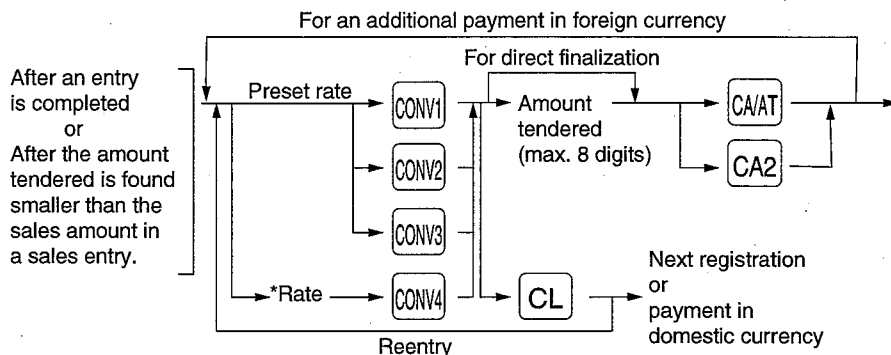
#1230	
DPT.06	\$15.00
CHARGE1	\$15.00

7 Payment treatment

■ Currency conversion

Your register allows payment entries of foreign currency. Pressing the **CONV1** thru **CONV4** key creates a subtotal in foreign currency. Cash payment is the only media that can be handled after currency conversion.

Procedure



*Rate: 0.0000 to 9999.9999

Note When the amount tendered is short, the deficit is shown in domestic currency.

Example To convert the amount owed (\$69.50) into the designated foreign currency

Preset rate (1.325) - CONV 1

Key operation

2300 **6**

Currency conversion → 4650 **7**

Amount tendered in foreign currency → 10000 **CONV1**

CA/AT

Print

DPT. 06	\$23.00	
DPT. 07	\$46.50	
***TOTAL	\$69.50	Domestic currency
CONV 1	1.3250	Conversion rate
	92.09	Foreign currency
CASH	100.00	
CHANGE	\$5.96	Domestic currency

Manual rate - CONV 4 (The **CONV4** key can be used only for the manual entry.)

Key operation

2300 **6**

4650 **7**

1 **275** **CONV4**

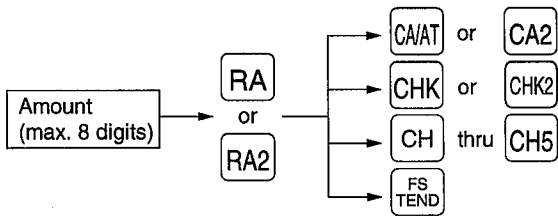
10000 **CA/AT**

Print

DPT. 06	\$23.00	
DPT. 07	\$46.50	
***TOTAL	\$69.50	
CONV 4	1.275	Conversion rate
	88.62	
CASH	100.00	
CHANGE	\$8.92	

■ Received on account entries

Procedure



Example

A customer whose code number is 12345 tenders \$48.00 in check for received on account.

Key operation

```

12345 [#]
4800 [RA]
      [CHK]
  
```

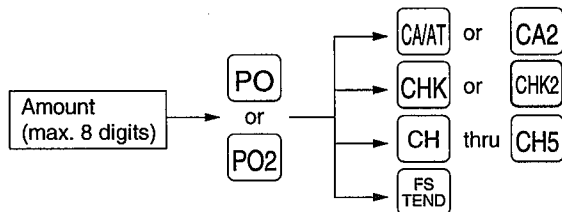
Print

```

#12345
CHECK
***RA           $48.00
  
```

■ Paid out entries

Procedure



Example

You pay \$30.00 in check to a vendor whose code number is 6789.

Key operation

```

6789 [#]
3000 [PO]
      [CHK]
  
```

Print

```

#6789
CHECK
***PO           $30.00
  
```

■ No sale (exchange)

Simply press the **[NS]** 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 **[NS]** key, a no sale entry is achieved with a non-add code number printed.

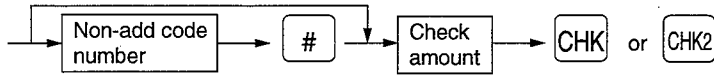
```

#45678
NO SALE
  
```

■ Cashing a check

Enter the check amount, then press the **CHK** or **CHK2** key.

Procedure



Example

Cashing a check of \$30.00 amount

Key operation

6789 **#**
3000 **CHK**

Print

#6789	
CA/CHK	\$30.00

■ Bottle return

This function is used to handle the payment (paid out) for returned empty bottles or cans.

Example

You pay for ten 15¢ returned empty bottles. (This example presupposes that dept. 11 has been programmed as bottle return department.)

Key operation

10 **@/ FOR**
15 **11**
CA/AT

Print

DPT. 1 1	10 @-0.15
	-1.50
CHANGE	\$1.50

8 Automatic sequencing key (**AUTO** key) entries

You can achieve many different key sequences automatically with a single key depression by using the Auto function key.

Example

Performing the transaction "Selling a \$5.00 item (dept. 7) for cash" programmed for the **AUTO₂**

AUTO₂ = 500 **7** **CA/AT**

Key operation

AUTO₂

Print

DPT. 07	\$5.00
CASH	\$5.00

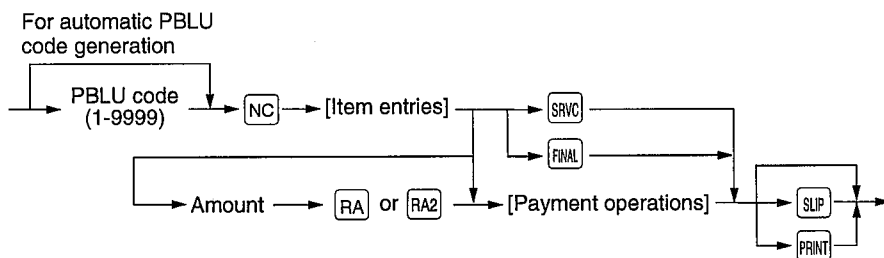
9 Guest Check (PBLU)

This feature is used to store and recall previous or credit balances of an open charge account when a previous balance lookup (PBLU) code is entered. The PBLU code can be 1 to 9999.

■ New charge accounts

For a new customer, open a new charge account and assign a PBLU code.

Procedure



Note

- The PBLU 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 PBLU codes in a sequential fashion. If your register has no been programmed to do so, each PBLU code can be entered manually.
- When the **[SRVC]** key is pressed, the tax is not calculated.
- You can temporarily finalize a guest check by pressing the **[FINAL]** key. This print 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.

Example

Key operation

```

1111 [NC]
3500 [2]
2700 [3]
      [FINAL]
  
```

Print

```

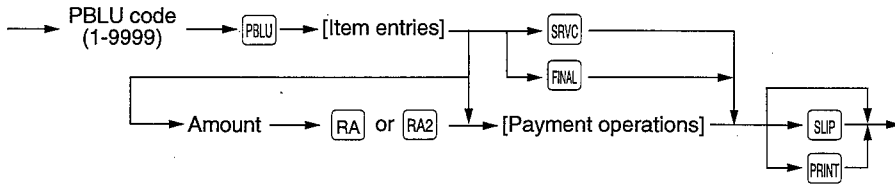
***PBLU          #1111
DPT. 02          $0.00
DPT. 03          $35.00
BAL FWD          $27.00
MDSE ST          $62.00
TAX1             $2.10

***TOTAL        $64.10
  
```

■ Additional item entries

For making additional guest check entries, enter the PBLU code first for automatic PB lookup. (Your register may be programmed to require that a check digit be added to the PBLU code.)

Procedure



Example

Key operation

1111	<input type="button" value="PBLU"/>
1400	<input type="button" value="5"/>
1600	<input type="button" value="6"/>
	<input type="button" value="FINAL"/>

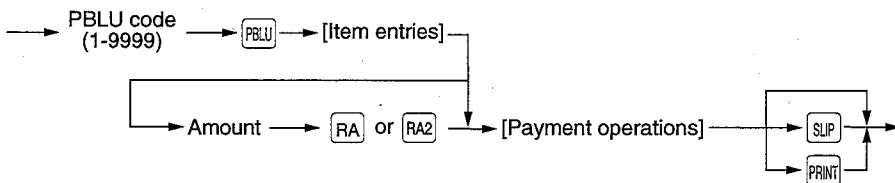
Print

#1111	
***PBAL	\$64.10
DPT. 05	\$14.00
DPT. 06	\$16.00
BAL FWD	\$30.00
***TOTAL	\$94.10

■ Settlement

Use the following procedure:

Procedure



Example

Key operation

1111	<input type="button" value="PBLU"/>
9410	<input type="button" value="RA"/>
8000	<input type="button" value="CHK"/>
1410	<input type="button" value="CASH"/>

Print

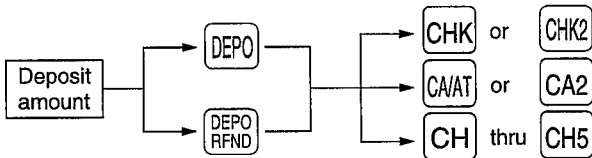
#1111	
***PBAL	\$94.10
BAL FWD	\$0.00
***TOTAL	\$94.10
***RA	\$94.10
CHECK	\$80.00
CASH	\$14.10
CHANGE	\$0.00
***TOTAL	\$0.00

■ Deposit entries

Deposit refers to a payment on a charge account. It can be received in cash, check or by charge. You can make the deposit entry only while in a guest check transaction. It cannot be done during handling of a tendered amount.

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





Procedure



Example

To record a \$50.00 deposit in cash made by a customer with PBLU code 1111

Key operation

1111 
 5000 
 
 





Print

	#1111
***PBAL	\$0.00
CASH2	
DEPOSIT	\$50.00
BAL FWD	\$0.00
SERVICE	-50.00

Example

To refund a \$50.00 deposit made by a customer with PBLU code 1111

Key operation

1111 
 5000 
 
 

Print

	#1111
***PBAL	-50.00
CASH2	
DPST RF	-50.00
BAL FWD	\$0.00
SERVICE	\$0.00

CORRECTION

1 Correction of the last entry (direct void)

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

Example

Key operation

1250 **6**
VOID
 2 **PLU/SUB**
VOID
 5012345678900 **UPC**
VOID
 600 **8**
%2
VOID
 328 **9**
 28 **⊖1**
VOID
 250 **RFND** **6**
VOID
CAVAT

Print

DPT. 06	\$12.50
DPT. 06	V-12.50
PL000002	\$1.50
PL000002	V-1.50
5012345678900#	
APPLE	\$2.50
5012345678900#	
APPLE	V-2.50
DPT. 08	\$6.00
	-15.00%
%2	-0.90
%2	V\$0.90
DPT. 09	\$3.28
(-) 1	
DPT. 09	-0.28
DPT. 09	V\$0.28
DPT. 06	R-2.50
DPT. 06	RV\$2.50
CASH	\$9.28

2 Correction of the next-to-last or earlier entries (indirect void)

With the **VOID** key, you can void any incorrect department, PLU/subdepartment, UPC or item refund entry made during a transaction if you find it before finalizing the transaction (e.g. pressing the **CAVAT** key). This function is applicable to department, PLU/subdepartment, UPC and item refund entries only.

For this operation, press the **VOID** key just before you press a department key, **DEPT #** key, direct PLU key, **PLU/SUB** key or **UPC** key or just before you scan an UPC code. For the refund indirect void, press the **VOID** key after you press the **RFND** key.

Example

Key operation

1310 **6**
 1755 **7**
 10 **PLU/SUB**
VOID
 58 **PLU/SUB**
 825 **7**
 5012345678900 **UPC**
 1310 **VOID** **6**
VOID **8**
 58 **VOID** **PLU/SUB**
 5012345678900 **VOID** **UPC**
CAVAT

Print

DPT. 06	\$13.10
DPT. 07	\$17.55
PL000010	\$7.15
PL000008	\$3.00
PL000058	\$3.00
DPT. 07	\$8.25
5012345678900#	
APPLE	\$2.50
DPT. 06	V-13.10
PL000008	V-3.00
PL000058	V-3.00
5012345678900#	
APPLE	V-2.50
CASH	\$32.95

3 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	Print														
1310 <input type="button" value="1"/>	<table><tr><td>DPT. 01</td><td>T 13.10</td></tr><tr><td>DPT. 06</td><td>\$17.55</td></tr><tr><td>PL000010</td><td>\$7.15</td></tr><tr><td>PL000035</td><td>\$3.00</td></tr><tr><td>MDSE ST</td><td>\$40.80</td></tr><tr><td>SBTL VD</td><td>-40.80</td></tr><tr><td>***TOTAL</td><td>\$0.00</td></tr></table>	DPT. 01	T 13.10	DPT. 06	\$17.55	PL000010	\$7.15	PL000035	\$3.00	MDSE ST	\$40.80	SBTL VD	-40.80	***TOTAL	\$0.00
DPT. 01		T 13.10													
DPT. 06		\$17.55													
PL000010		\$7.15													
PL000035		\$3.00													
MDSE ST		\$40.80													
SBTL VD		-40.80													
***TOTAL	\$0.00														
1755 <input type="button" value="6"/>															
10 <input type="button" value="PLU/SUB"/>															
35 <input type="button" value="PLU/SUB"/>															
Subtotal void {	<input type="button" value="SBTL"/>														
	<input type="button" value="VOID"/>														
	<input type="button" value="SBTL"/>														

4 Correction of incorrect entries not handled by the direct or indirect 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 observed:

1. If you are in the middle of making an amount tendered entry, you must first finalize the transaction before making corrections.
2. Try to make correct entries from the beginning.
3. Hand the incorrect receipt to your manager for its cancellation.

CORRECTION AFTER FINALIZING A TRANSACTION (AFTER GENERATING A RECEIPT)

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

1. Turn the mode switch to the MGR position.
2. Press the **VOID** key to put your register in the VOID mode.
3. Repeat the entries that are recorded on an incorrect receipt. (All data for the incorrect receipt are removed from register memory; the voided amounts are added to the void register totalizer.)

Incorrect receipt

08/27/01 9:17AM 11
123456 #1342 DICK
PL000001 \$1.25
DPT.02 \$5.00
CASH \$6.25



Cancellation receipt

08/27/01 9:17AM 11
123456 #1343 DICK
VOID
PL000001 \$1.25
DPT.02 \$5.00
CASH \$6.25

Note

Your machine 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.

OVERRIDE ENTRIES

Programmed limit for functions (such as for maximum amounts) can be overridden by making an entry in the MGR mode.

Procedure

1. Turn the mode switch to the MGR position.
2. Make the override entry.

Example

Selling a \$15.00 item (dept. 2) for cash and subtracting the coupon amount \$2.50 from the sale amount (This example presumes that the register has been programmed not to allow coupon entries over \$2.00.)

Key operation	
	1500 <input type="button" value="2"/>
REG-mode	250 <input type="button" value="⊖2"/> ...Error
entries	<input type="button" value="CL"/>

Turn the mode switch
to the MGR position.

250

Return the mode switch
to the REG position.

Print	
DPT. 02	\$15.00
(-) 2	-2.50
CASH	\$12.50

SPECIAL PRINTING FUNCTIONS

1 Copy receipt printing

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

Note Pressing the **RCPT** key in the OP X/Z mode before registration toggles the status "ON" and "OFF".

Example Printing a copy receipt after making the entries shown below with the receipt function being in the "OFF" status

Key operation

850 **2**
 3 **9**/**FOR**
 150 **1**
CAVAT

Print on the journal

Print

```
08/27/01 9:22AM 11
123456 #1345 DICK
DPT.02 $8.50
          3 @ $1.50
DPT.01 $4.50
CASH $13.00
```

For receipting → **RCPT**

Print on the receipt

```
08/27/01 9:22AM 11
123456 #1345 DICK
DPT.02 $8.50
          3 @ $1.50
DPT.01 $4.50
CASH $13.00
```

When the receipt function is in the "ON" status and you press the **RCPT** key to make a second copy

```
08/27/01 9:22AM 11
123456 #1345 DICK
*COPY*
DPT.02 $8.50
          3 @ $1.50
DPT.01 $4.50
CASH $13.00
```

When the receipt function is in the "ON" status, the "*COPY*" symbol will be printed on the receipt.

2 Validation printing function (Slip printer)

Your register can perform validation printing when it is connected with the slip printer. For the details about the slip printer, contact your authorized SHARP dealer.

1. Set a validation slip to the slip printer.
2. Press the **PRINT** key. The validation printing will start.

Note

- When you make an entry for which compulsory validation printing has been programmed, the "U" will light up in the display. Carry out the validation printing successively until the "U" goes off (or by the programmed number of times) while replacing validation slips. You cannot proceed to any further entry unless this printing is completed.
- Programmed compulsory validation printing can be overridden by performing the following operation depending upon your initial program setup.

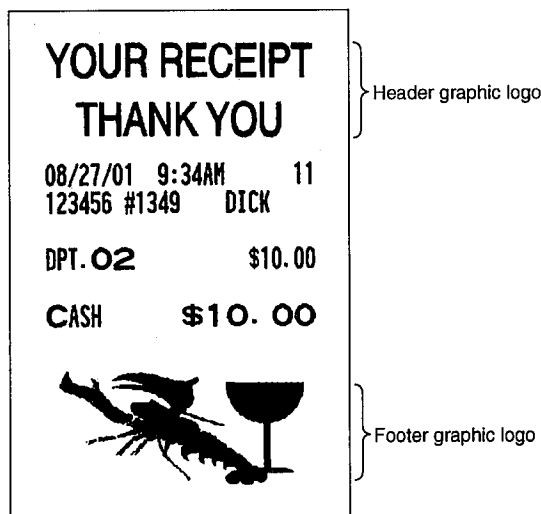
1. Turn the mode switch to the "MGR" position.

2. →  → 

3 Printing of header and footer graphic logos

As an optional setting, your register can print a graphic logo on the top of each receipt (header graphic logo), and another graphic logo can be printed on the bottom of each receipt (footer graphic logo) with the job code #2616. You can also print the graphic logos with the combination of 3-line header logo message or 3-line footer logo message, or can print only logo messages without graphic logo. Consult your dealer when you want to change the setting.

- Sample receipt with a header graphic logo and a footer graphic logo



TIME DISPLAY AND AUTOMATIC UPDATING OF THE DATE

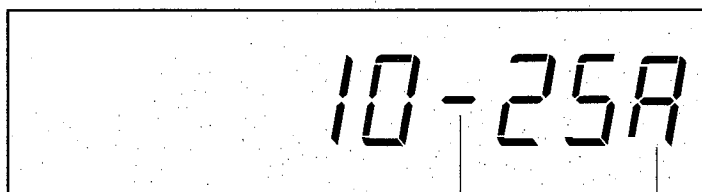
1 Time display

When you need the time displayed, turn the mode switch to the OP X/Z position after the preceding transaction or operation is finalized.

You can also display the time by pressing the **#** key in the REG or MGR mode.

The time display disappears as soon as you press the **CL** key in the REG or MGR mode or begin the subsequent entry.

Sample display of 10:25 AM



This bar flashes
every 0.5 seconds.

"P" will appear
for PM.

2 Automatic updating of the date

Once the internal clock unit is started at the correct time, it continues to run as long as the built-in battery is charged, and updates the date (month, day, year) properly.

PRIOR TO PROGRAMMING

1 General instructions

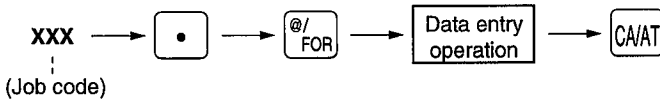
This chapter illustrates how to program your cash register.

All the programming items can be programmed by the **Job-Code-Based Programming** described later.

However, your machine allows you to program some items using the **Direct Programming**, which does not require you to enter the job code.

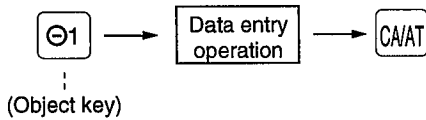
Job-Code-Based Programming

Primitive procedure



Direct Programming

Sample procedure



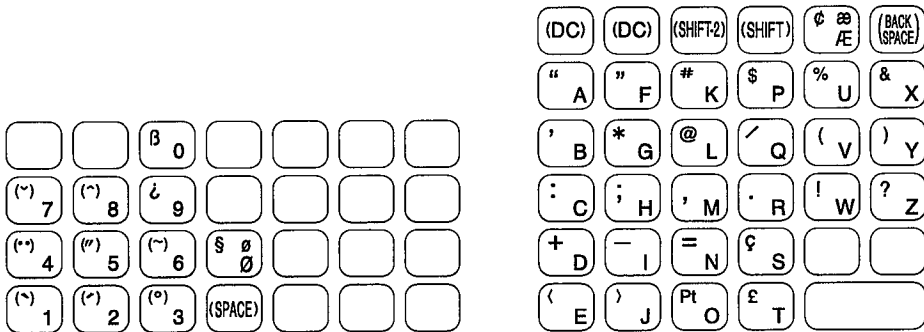
2 How to program alphanumeric characters

You can program alphanumeric characters for departments, PLUs, UPCs, functions and so on in the character entry mode.

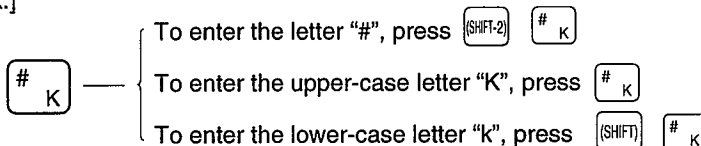
There are two ways for programming characters: **using character keys on the keyboard** and **entering character codes with numeric keys on the keyboard**.

Using character keys on the keyboard

Enter a character according to the position of the figure shown below.



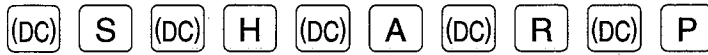
[Ex.]



- Numerals, letters and symbols are programmable simply by pressing the keys.
- Characters may only be entered in single size or in double size. **By default, the single-size character mode is selected.** To enter a character in double size, press the (DC) key before you enter the character.

Example

To program the word "SHARP" in double size, do the following key-in.



- Letters of alphabets "A" through "Z" are possible to be entered in lower case or in upper case. **By default, the upper-case letter mode is selected.** To enter a character in lower case, press the (SHIFT) key before you enter the character. To return to the upper-case letter mode, press the (SHIFT) key again.

Example

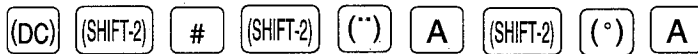
To program the word "Sharp", do the following key-in.



- Symbols and special letters are programmable by using the (SHIFT-2) key. To enter a character, press the (SHIFT-2) key before you enter the character.

Example

To program letters "# Å Å" with the letter "#" being double size



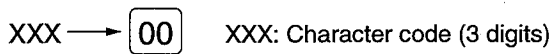
Editing the characters

You can edit the characters you entered. Pressing a character key replaces the current character with a new one. To edit the characters, use the (BACK SPACE) key.

(BACK SPACE): Backs up the cursor, erasing the character to the left.

■ Entering character codes with numeric keys on the keyboard

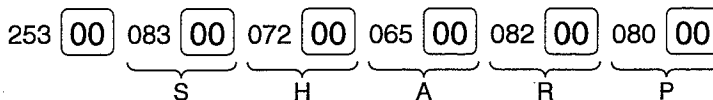
- Numerals, letters and symbols are programmable by entering the character code and (00) key. See the alphanumeric character code table on the next page. In this way, you can program characters other than the characters on the programming key sheet.



- Double-size characters can be made by entering the character code 253.

Example

To program the word "SHARP" with the letter "S" being double size



Alphanumeric character code table

Character	Code	Character	Code	Character	Code	Character	Code	Character	Code	Character	Code
Space	032	4	052	H	072	Ö	092	p	112	4	132
!	033	5	053	I	073	Ü	093	q	113	½	133
"	034	6	054	J	074	^	094	r	114	F _T	134
#	035	7	055	K	075	_	095	s	115	←	135
\$	036	8	056	L	076	'	096	t	116	→	136
%	037	9	057	M	077	a	097	u	117	∞	137
&	038	:	058	N	078	b	098	v	118	∞	138
'	039	;	059	O	079	c	099	w	119	◀	139
(040	<	060	P	080	d	100	x	120	▶	140
)	041	=	061	Q	081	e	101	y	121	F	141
*	042	>	062	R	082	f	102	z	122	T	142
+	043	?	063	S	083	g	103	{	123	*(DC)	253
(Comma) ,	044	@	064	T	084	h	104		124		
-	045	A	065	U	085	i	105	}	125		
(Period) .	046	B	066	V	086	j	106	β	126		
/	047	C	067	W	087	k	107	ø	127		
0	048	D	068	X	088	l	108	!!	128		
1	049	E	069	Y	089	m	109	1	129		
2	050	F	070	Z	090	n	110	2	130		
3	051	G	071	Ä	091	o	111	3	131		

* (DC): Double-size character code

PROGRAMMING

Your machine allows you to program in two modes: PGM1 and PGM2. The PGM1 mode is for programming those items that need to be changed often: unit prices of departments/PLUs/UPCs, and percentages. The PGM2 mode is used for programming all PGM1-mode programs and those items that require less frequent changes: date, time, tax table, tax rate, and the functions of each key. We describe below the programming or setting procedures of various items.

Program every item necessary for your store following the appropriate procedures.

* To set the mode switch to the PGM1 position, use the manager or submanager key; and to set to the PGM2 position, use the manager key.

■ Preparations for Programming

1. Plug your machine into a standard wall outlet.
2. Put the manager or submanager key in the mode switch and turn it to the PGM1 or PGM2 position depending upon the programming you are about to do.
3. Check to see whether both journal and receipt rolls are present in the machine. If they are missing, install journal and receipt paper rolls correctly referring to the procedure in "5. Installing and removing the paper roll" under "OPERATOR MAINTENANCE".
4. Program necessary items into your machine.

Direct Programming

1 Setting the date and time

■ Date PGM 2

Enter the month (one or two digits), day (two digits), and year (two digits) in this sequence.

Procedure

XXXXXX → #
Date (five or six digits)

Example Aug. 26, 2001

Key operation

082601 #

Print

08/26/01 12:00AM
000000 #0001

#2610 *PGM2*

08/26/01 — Date

■ Time PGM 2

Set the time using the military time (24-hour) system. For example, when the time is set to 2:30 AM, enter 230; and when it is set to 2:30 PM, enter 1430. The time will be printed and displayed using a real-time system. Once you set the time, the internal clock unit will continue to run as long as the built-in battery is alive and update the date (day, month, year) properly.

Procedure

XXXX → #
Time (max. four digits)

Example

Setting the time as 2:30 PM (14:30)

Key operation

1430 #

Print

```

08/26/01  2:30PM
000000 #0002

#2611 *PGM2*

2:30PM
    
```

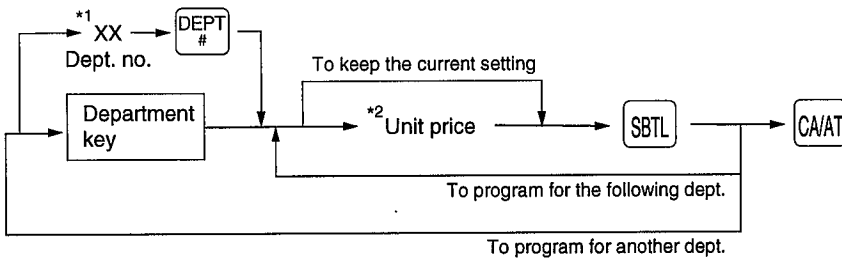
Time

2 Programming for departments

Your machine is equipped with 20 standard departments and up to 50 maximum departments may be preset. Your machine allows you to perform the following programming for each department:

■ Unit price PGM 1 PGM 2

Procedure



*1 Department no.: 1 to 50

*2 Unit price: max. six digits (\$9999.99)

Example

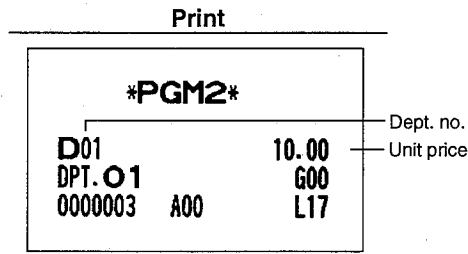
Programming the unit price \$10.00 for department 1

1. Press the department 1 key. 1 01 0.00
 • The current unit price will be displayed.
2. Enter the unit price "1000." 1000 01 1000
3. Press the SBTL key to program this setting. SBTL 02 0.00

4. Press the **CA/AT** key to finalize the programming and generate a programming report.

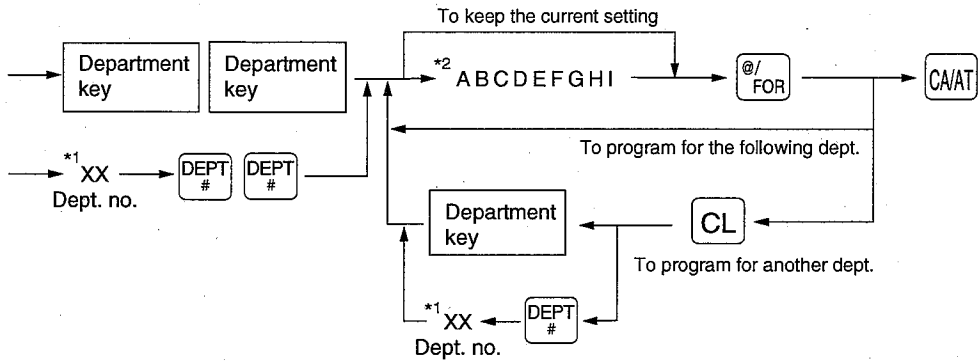
CA/AT

0 . 0 0



Functional selection **PGM 2**

Procedure



*1 Department no.: 1 to 50

*2 Item	Selection	Entry
A Sign (plus/minus)	Plus	0
	Minus	1
B Food stamp status	Ineligible	0
	Eligible	1
C Tax 4 status	Non-taxable	0
	Taxable	1
D Tax 3 status	Non-taxable	0
	Taxable	1
E Tax 2 status	Non-taxable	0
	Taxable	1
F Tax 1 status	Non-taxable	0
	Taxable	1
G Normal/SICS (Single Item Cash Sale)/ SIF (Single Item Finalization)	Normal	0
	SICS	1
	SIF	2
H Significant digit for HALO		1 thru 9
I Number of zeros to follow the significant digit for HALO		0 thru 7

Note

- Sign (plus/minus)**
- Assign a plus sign to departments for normal sales transactions.
 - Assign a minus sign to departments for minus transactions.

Tax status (taxable 1 thru 4 / non-taxable)

- When an entry of a taxable department is made in a transaction, tax is automatically computed according to the associated tax table or rate.
- Tax 4 is prohibited if you use the food stamp function.

Normal department/SICS (Single Item Cash Sale) / SIF (Single Item Finalization)

- If an entry of a department programmed for SICS is made first, the sale will be finalized as soon as the department key is pressed. If the entry is made after entering a department not programmed for SICS, the sale will not be finalized until the **CAAT** key is pressed.
- Whenever a sale is made to a department set for SIF, the sale is finalized as soon as the department key is pressed.

HALO (High Amount Lockout)

- 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.

• HI is the same as $H \times 10^1$.

For example, presetting 14 (\$100.00) here means that amount entries of up to \$100.00 are allowed in the REG mode. When you preset 17, however, the upper limit amount is 99999.99.

Example Programming for department 4 as follows: A=0, B=0, C=0, D=0, E=0, F=1, G=0, H=9, and I=5.

1. Press the department 4 key twice.
 - The current parameter setting will be displayed.

4 **4**

A	B	C	D	E	F	G	H	I
0	0	0	0	0	0	1	7	

2. Set the parameters as follows:
 - You can change the value at the blinker.
 - Go to the desired position with the following keys:

→.....Moves the blinker to the right.

0:0 0 0 0 0 0 1 7



0:0 0 0 0 0 0 1 7

←.....Moves the blinker to the left.

0:0 0 0 0 0 0 1 7



0:0 0 0 0 0 0 1 7

• Enter the figure.

000001095

0 0 0 0 0 1 0 9 5

3. Press the **@/FOR** key to program this setting.

@/FOR

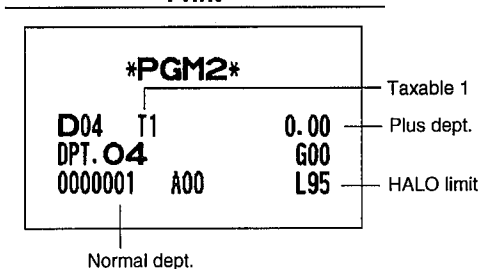
0:0 0 0 0 0 0 1 7

4. Press the **CAAT** key to finalize the programming and generate a programming report.

CAAT

0 . 0 0

Print

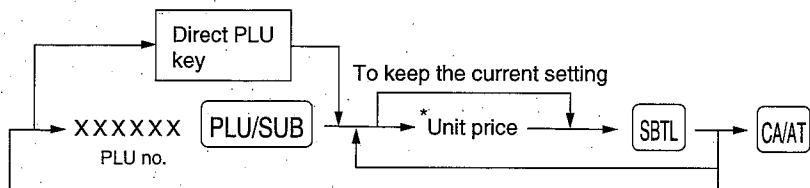


3 Price lookup (PLU) programming

A PLU number can be up to six digits (free code).

Unit price PGM 1 PGM 2

Procedure



*Unit price: max. six digits (\$9999.99)

Note

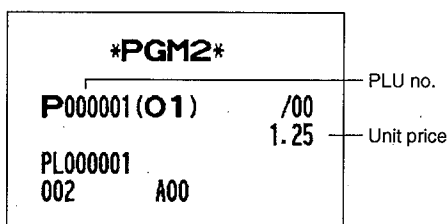
The preset amount will work as the unit price for PLUs and as the HALO amount for subdepartments. In the case of subdepartments, a zero preset prevents any amount entry and a 9999.99 preset means no limitation. In the case of PLUs, zero and 9999.99 presets have no special meaning. (i.e. a 0 amount preset is available.)

Example

Programming the unit price \$1.25 for PLU no. 1

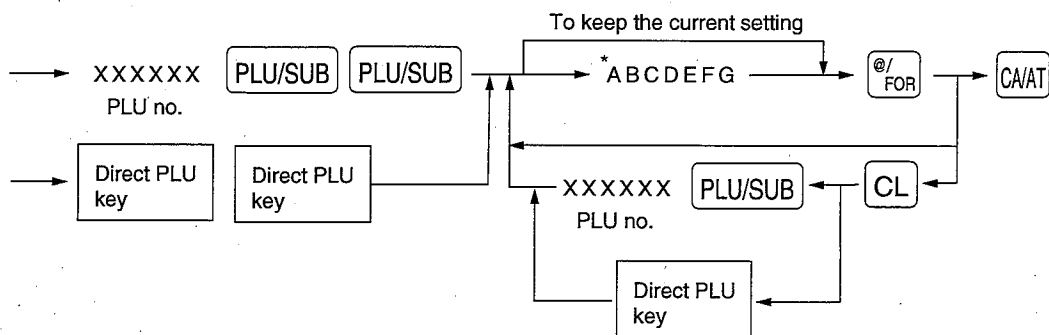
- | | | | | |
|----------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------|-------------|---------|
| 1. Enter the PLU number "1" and press the PLU/SUB key. | 1 PLU/SUB | <table border="1"><tr><td>0 0 0 0 0 1</td><td>0 . 0 0</td></tr></table> | 0 0 0 0 0 1 | 0 . 0 0 |
| 0 0 0 0 0 1 | 0 . 0 0 | | | |
| 2. Enter the unit price "125." | 125 | <table border="1"><tr><td>0 0 0 0 0 1</td><td>1 2 5</td></tr></table> | 0 0 0 0 0 1 | 1 2 5 |
| 0 0 0 0 0 1 | 1 2 5 | | | |
| 3. Press the SBTL key to program this setting. | SBTL | <table border="1"><tr><td>0 0 0 0 0 2</td><td>0 . 0 0</td></tr></table> | 0 0 0 0 0 2 | 0 . 0 0 |
| 0 0 0 0 0 2 | 0 . 0 0 | | | |
| 4. Press the CAVAT key to finalize the programming and generate a programming report. | CAVAT | <table border="1"><tr><td></td><td>0 . 0 0</td></tr></table> | | 0 . 0 0 |
| | 0 . 0 0 | | | |

Print



Functional selection PGM 2

Procedure



* Item	Selection	Entry
A	Sign (plus/minus)	Plus 0
		Minus 1
B	Food stamp status	Ineligible 0
		Eligible 1
C	Tax 4 status	Non-taxable 0
		Taxable 1
D	Tax 3 status	Non-taxable 0
		Taxable 1
E	Tax 2 status	Non-taxable 0
		Taxable 1
F	Tax 1 status	Non-taxable 0
		Taxable 1
G	Mode	Prohibit mode 0
		Subdepartment mode 1
		PLU mode 2
		PLU/subdepartment mode 3
		Delete mode 4

Note

Sign (plus/minus)

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

Sign		Function of PLU/subdepartment
Department	PLU/ subdepartment	
+	+	Serves as a normal plus PLU/subdepartment
-	-	Serves as a normal minus PLU/subdepartment
+	-	Accepts store coupon entries, but not split-pricing entries
-	+	Not valid; not accepted

Tax status (taxable 1 thru 4/non-taxable)

- Tax 4 is prohibited if you use the food stamp function.
- A PLU not programmed for any of Tax 1 thru Tax 4 is registered depending on the tax status of the department which the PLU belongs to.

Mode parameter

- **PLU mode:** Allows a PLU entry to be made by entering an assigned PLU number and depressing the [PLU/SUB] key.
- **Subdepartment mode:** Allows a subdepartment entry to be made by entering a unit price and assigned PLU number and then pressing the [PLU/SUB] key.
- **PLU/subdepartment mode:** Allows PLU entries to be made in both the PLU and subdepartment modes.
- **Delete mode:** Deletes data programmed for each PLU.
- **Prohibit mode:** Prohibits the entry of any assigned PLU code and clears no PLU/subdepartment program data.

Example

Programming for PLU no. 1 as follows: A=0, B=0, C=0, D=0, E=0, F=1, and G=2.

1. Enter the PLU number "1" and press the **PLU/SUB** key twice.

1 **PLU/SUB** **PLU/SUB**

	A	B	C	D	E	F	G
P	0	0	0	0	0	0	2

2. Set the parameters A to G.
• You can go to the desired position with the **00** or **.** key.

0000012

P	0	0	0	0	0	1	2
---	---	---	---	---	---	---	---

3. Press the **%/FOR** key to program this setting.

%/FOR

P	0	0	0	0	0	0	2
---	---	---	---	---	---	---	---

4. Press the **CA/AT** key to finalize the programming and generate a programming report.

CA/AT

	0	.	0	0			
--	---	---	---	---	--	--	--

Print

```

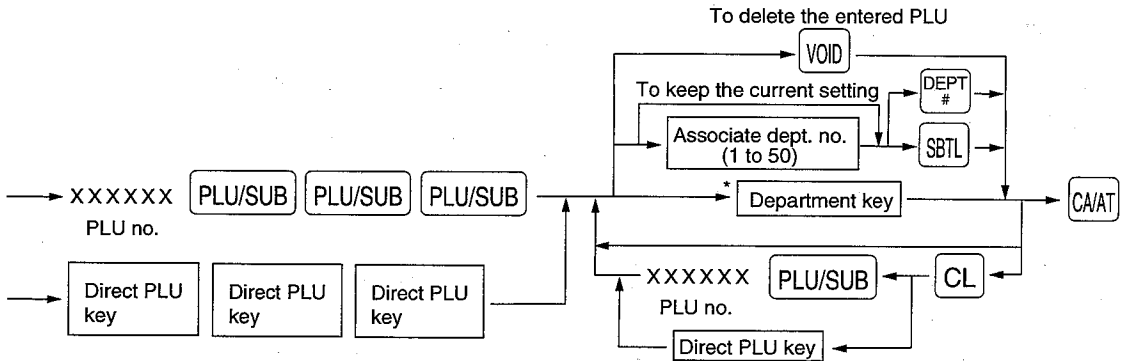
*PGM2*
P000001(O1) /00
T1 1.25 Taxable 1
PL000001 PLU mode
002 A00
    
```

PLU assignment to departments

PGM 1

PGM 2

Procedure



*Refers to the department key to be associated with the entered PLU

Note

- The following functions of the PLU depend on the programming for its associated department:
 - Type (Bottle return/Hash/Normal)
 - SICS (Single Item Cash Sale)/SIF (Single Item Finalization)/Normal
 - Item validation print compulsory/non-compulsory

Example

Assigning PLU nos. 1 and 2 to department 2

1. Enter the PLU number "1" and press the **PLU/SUB** key three times.

1 **PLU/SUB** **PLU/SUB** **PLU/SUB**

0	0	0	0	0	1	0	1
---	---	---	---	---	---	---	---

2. Press the the department 2 key to assign PLU no. 1 to department 2.

2

0	0	0	0	0	2	0	1
---	---	---	---	---	---	---	---

3. Press the department 2 key to assign
PLU no. 2 to department 2.

2

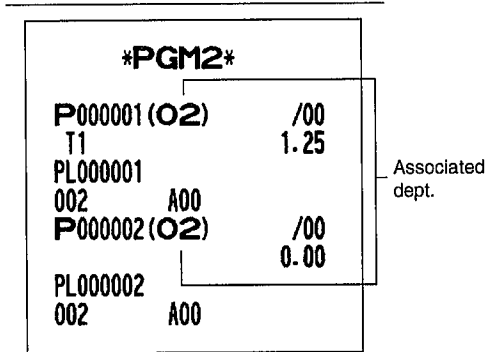
0 0 0 0 0 3 0 1

4. Press the **CAVAT** key to finalize the programming
and generate a programming report.

CAVAT

0 . 0 0

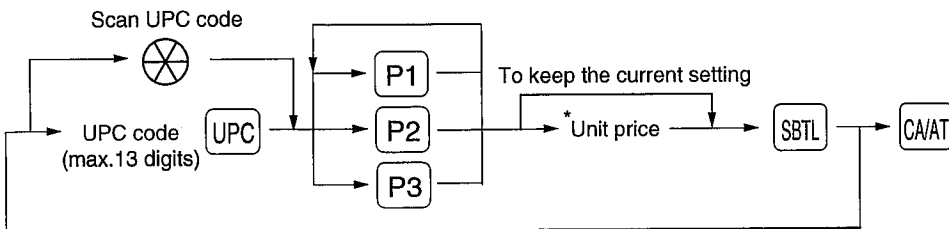
Print




4 UPC/EAN programming

Unit price PGM 1 PGM 2

Procedure



*Unit price: max. six digits (\$9999.99)

Note • The entry of a UPC code through the scanner is indicated by .

Example Programming the unit price 2.50 for UPC code 5012345678900.

- Scan the UPC code,
or enter the UPC code "5012345678900"
and press the **UPC** key.
- Enter the unit price "250."
- Press the **SBTL** key to program this setting.
- Press the **CAVAT** key to finalize the programming
and generate a programming report.



or

5012345678900 **UPC**

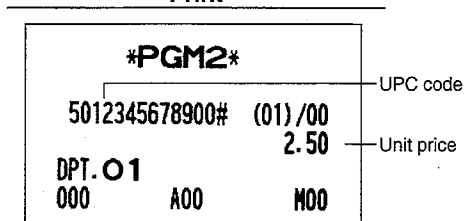
P 0 . 0 0

P 2 5 0

P 0 . 0 0

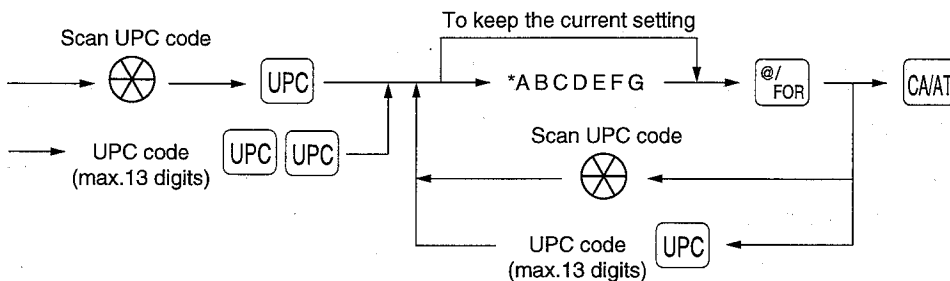
0 . 0 0

Print



■ Functional selection **PGM 2**

Procedure



* Item:	Selection:	Entry:
A Sign (plus/minus)	Plus	0
	Minus	1
B Food stamp status	Ineligible	0
	Eligible	1
C Tax 4 status	Non-taxable	0
	Taxable	1
D Tax 3 status	Non-taxable	0
	Taxable	1
E Tax 2 status	Non-taxable	0
	Taxable	1
F Tax 1 status	Non-taxable	0
	Taxable	1
G Delete method (To erase from the UPC file)	Delete in non-accessed UPC deleting job (#105 in Z1 mode)	0
	Inhibit to delete in non-accessed UPC deleting job (#105 in Z1 mode)	1
	Delete now	4

Note *Sign (plus/minus)*
The function of every UPC varies according to the combination of its sign and the sign of its associated department as follows:

Department	Sign		Function of UPC
	UPC	UPC	
+	+	+	Serves as a normal plus UPC
-	-	-	Serves as a normal minus UPC
+	-	-	Accepts vendor coupon entries, but not split-pricing entries
-	+	+	Not valid; not accepted

Tax status (taxable 1 thru 4/non-taxable)

- Tax 4 is prohibited if you use the food stamp function.
- A UPC not programmed for any of Tax 1 thru Tax 4 is registered depending on the tax status of the department which the UPC belongs to.

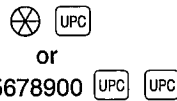
Delete method

- When you select "Delete now", the programmed data of the UPC code you specified is deleted with this programming.
- When you select "Delete in X/Z non-accessed UPC deleting job", you can delete UPCs that has not been accessed during the period that is programmed in the job #2029 with the execution of UPC deleting job (#105 in Z1 mode).

Example

Programming for UPC code 5012345678900 as follows: A=0, B=0, C=0, D=0, E=0, F=1 and G=1.

1. Scan the UPC code and press the **UPC** key, or enter the UPC code "5012345678900" and press the **UPC** key twice.



	A	B	C	D	E	F	G
P	0	0	0	0	0	0	0

2. Set the parameters A to G.
• You can go to the desired position with the **00** or **.** key.

0000011

P	0	0	0	0	0	1	1
---	---	---	---	---	---	---	---

3. Press the **9/ FOR** key to program this setting.



P						0	0
---	--	--	--	--	--	---	---

4. Press the **CAVAT** key to finalize the programming and generate a programming report.



						0	0
--	--	--	--	--	--	---	---

Print

Delete method
(Inhibit to delete by job#105 in Z1mode)
In case of "delete", no mark is printed.

PGM2			
5012345678900# (01)/00			
* T1	2.50		
DPT. 01			
000	A00	M00	

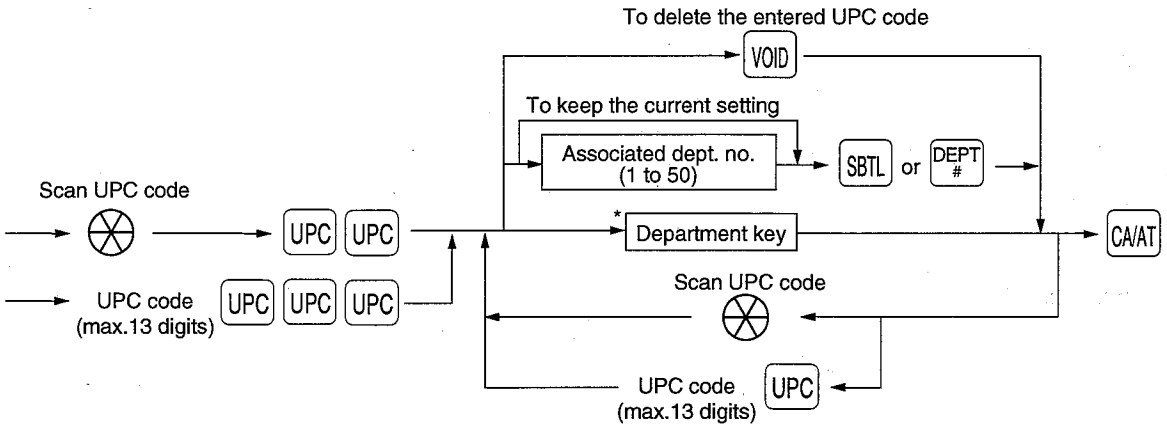
Taxable 1

When "delete now" is selected:

PGM2	
5012345678900#	----

UPC assignment to departments PGM 1 PGM 2

Procedure



*Refers to the department key to be associated with the entered UPC code

- Note**
- The following functions of the UPC code depend on the programming for its associated department:
 - Type (Bottle return/Hash/Normal)
 - SICS (Single Item Cash Sale)/SIF (Single Item Finalization)/Normal
 - HALO (high amount lockout)

Example Assigning UPC code 5012345678900 to department 2

- Scan the UPC code and press the **UPC** key twice, or enter the UPC code "5012345678900" and press the **UPC** key three times.

	P	0 1
--	---	-----
- Press the department 2 key to assign UPC code 5012345678900 to department 2.

2	P	0 . 0 0
---	---	---------
- Press the **CAVAT** key to finalize the programming and generate a programming report.

		0 . 0 0
--	--	---------

Print

```

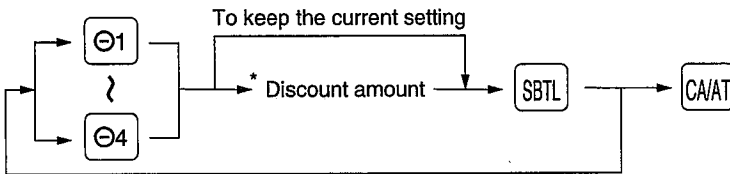
*PGM2*
5012345678900# (02)/00
* T1 2.50
DPT. 01
000 A00 M00
    
```

Associated dept.

5 Programming for discount keys

Discount amount (⊖) PGM 1 PGM 2

Procedure



*Discount amount: 0 - 999999

Example Assigning \$10.00 to the ⊖1 key

1. Press the ⊖1 key.
2. Enter the discount amount "1000."
3. Press the SBTL key to program this setting.
4. Press the CA/AT key to finalize the programming and generate a programming report.

⊖1	0 0 1	0 . 0 0
1000	0 0 1	1 0 0 0
SBTL	0 0 1	1 0 . 0 0
CA/AT		0 . 0 0

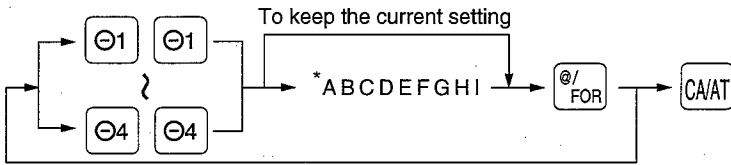
Print

PGM2	
F001 (→) 1	
S	-10.00
	L17

Discount amount

High amount lockout (HALO), food stamp status, and tax status (⊖) PGM 2

Procedure



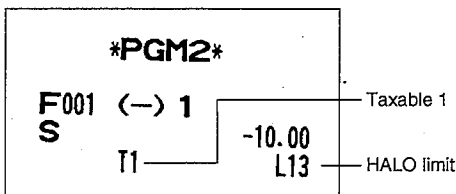
* Item		Selection	Entry
A	Sign (plus/minus)	Plus	0
		Minus	1
B	Food stamp status	Ineligible	0
		Eligible	1
C	Tax 4 status	Non-taxable	0
		Taxable	1
D	Tax 3 status	Non-taxable	0
		Taxable	1
E	Tax 2 status	Non-taxable	0
		Taxable	1
F	Tax 1 status	Non-taxable	0
		Taxable	1
G	Always enter 0.		0
H	Significant digit for HALO		1 thru 9
I	Number of zeros to follow the significant digit for HALO		0 thru 7

Note Tax status (taxable 1 thru 4/non-taxable)
 Tax 4 is prohibited if you use the food stamp function.
HALO (High Amount Lockout)
 HI is the same as $H \times 10^I$.
 For example, presetting 14 (\$100.00) here means that amount entries of up to \$100.00 are allowed in the REG mode. When you preset 17, however, the upper limit amount is 99999.99.

Example Programming for the ⊖1 key as follows: A=1, B=0, C=0, D=0, E=0, F=1, G=0, H=1, and I=3.

- Press the ⊖1 key twice. ⊖1 ⊖1 A B C D E F G H I
1 0 0 0 0 0 1 7
- Set the parameters A to I. 100001013 1 0 0 0 0 1 0 1 3
 •You can go to the desired position with the 00 or . key.
- Press the ⊘/FOR key to program this setting. ⊘/FOR 1 0 0 0 0 1 0 1 3
- Press the CA/VAT key to finalize the programming and generate a programming report. CA/VAT 0 . 0 0

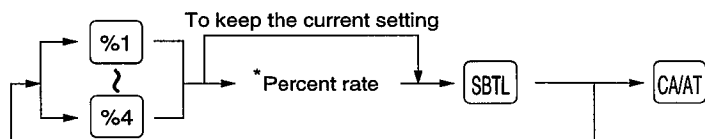
Print



6 Programming for percent keys

■ Percent rate (Ⓜ) PGM 1 PGM 2

Procedure



* Percent rate: 0.00 - 100.00

Note You must use a decimal point when setting percentage rates that are fractional.

Example Assigning 10.25% to the Ⓜ key

Key operation

Ⓜ 10 . 25 SBTL
CA/AT

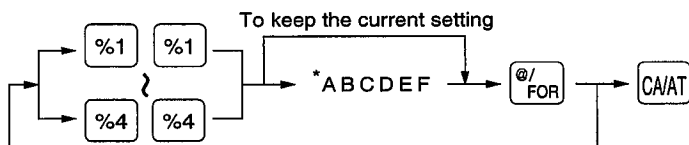
Print

```

*PGM2*
F005 %1
S                -10.25% ← Percent rate
L100.00%
    
```

■ Sign (+/-), food stamp status, and tax status (Ⓜ) PGM 2

Procedure



* Item		Selection	Entry
A	Sign (plus/minus)	Plus (premium)	0
		Minus (discount)	1
B	Food stamp status	Ineligible	0
		Eligible	1
C	Tax 4 status	Non-taxable	0
		Taxable	1
D	Tax 3 status	Non-taxable	0
		Taxable	1
E	Tax 2 status	Non-taxable	0
		Taxable	1
F	Tax 1 status	Non-taxable	0
		Taxable	1

Note Tax status (taxable 1 thru 4/non-taxable)
Tax 4 is prohibited if you use the food stamp function.

Example Programming for the Ⓜ key as follows: A=1, B=0, C=0, D=0, E=1, and F=0.

Key operation

Ⓜ Ⓜ 100010 @/FOR
CA/AT

Print

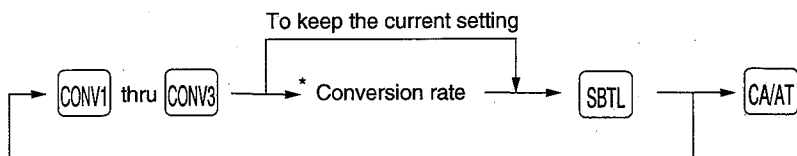
```

*PGM2*
F005 %1
S                -10.25% ← Discount
T 2              L100.00% ← Taxable 2
    
```


7 Programming for conversion keys

■ Currency conversion rate (CONV) PGM 1 PGM 2

Procedure



* Currency conversion rate: 0.0000 - 9999.9999

Note You must use a decimal point when setting conversion rates that are fractional.

Example Assigning 1.325 to the CONV1 key

Key operation

CONV1 1 . 3250 SBTL
CA/AT

Print

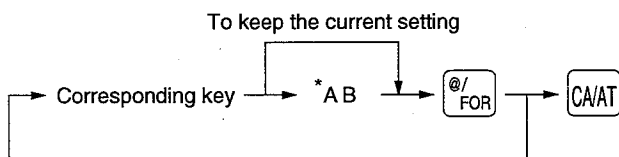
```

*PGM2*
F071 CONV 1          1.3250 — Conversion rate
  
```

8 Programming for the CA2, RA, PO, CH, CHK, and TAX keys

■ High amount lockout (HALO) (CA2, RA, PO, CH, CHK, and TAX) PGM 2

Procedure



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

A: Significant digit (1 thru 9)

B: Number of zeros to follow the significant digit (CA2/RA/PO/CH/CHK: 0 thru 8, TAX: 0 thru 7)

Note For the TAX key, press the TAX key twice.

Example Programming a HALO limit of \$1000.00 (15) for the CH2 key

Key operation

CH2 15 @/ FOR
CA/AT

Print

```

*PGM2*
F078 CHARGE2      L15 — HALO limit
      0000 00000000
  
```

9 Programming for the automatic tax calculation function

Your machine has an automatic tax calculation feature which allows you to program four tax tables to avoid calculating incorrect tax amounts.

Automatic tax calculations require you to program, in addition to the tax table, the tax status of each pertinent department, PLU, UPC, and function key.

■ The tax table (applicable to the add-on tax) PGM 2

Sample tax table

New Jersey tax table: 6%

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



A: Difference between the minimum breakpoint and the next one (¢)	
—	
10 (0.11 - 0.01)	B: Non-cyclic
12 (0.23 - 0.11)	C: Cyclic-1
16 (0.39 - 0.23)	
18 (0.57 - 0.39)	
16 (0.73 - 0.57)	
16 (0.89 - 0.73)	
22 (1.11 - 0.89)	
12 (1.23 - 1.11)	D: Cyclic-2
16 (1.39 - 1.23)	
18 (1.57 - 1.39)	
16 (1.73 - 1.57)	
16 (1.89 - 1.73)	
22 (2.11 - 1.89)	

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

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

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

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

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

Sample tax table

Example 8%

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

Modification of the left tax table

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



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

From the modified tax table above;

Rate = 8(%), T = \$0.01 = 1¢, Q = \$0.11 = 11¢, M1 = 1.11, M2 = 2.11, M = 100

Job-Code-Based Programming

This section illustrates how to program items using job codes. Using job codes allows you to program a wide variety of items.

Start this programming by entering a corresponding job code as shown below.

2110 → [•] → [@/ FOR] →

All the items which can be programmed by the job-code-based programming start on this page and those which can also be programmed by the direct programming are marked with the symbol " **Direct** " following the job codes.

Note

When setting the parameters for a job code, the digit that is blinking is the one that can be changed. To go to the position of the parameter that you want to change, press either of the following keys :

[•] Moves the blinker to the right.

[00] Moves the blinker to the left.

1 Setting the date and time

Setting the date **PGM 2** **2610** **Direct**

Enter the month (one or two digits), day (two digits), and year (two digits) in this sequence.

Procedure

2610 → [•] → [@/ FOR] → Date (five or six digits) → [CA/AT]

Example

Aug. 26, 2001

Key operation

2610 [•] [@/ FOR]
82601 [CA/AT]

Print

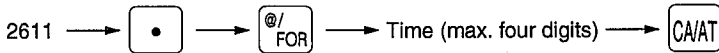
Date → [08/26/01 12:00AM
000000 #0001
#2610 *PGM2*
08/26/01]

■ Setting the time PGM 2 2611 Direct

Set the time using the military time (24-hour) system. For example, when the time is set to 2:30 AM, enter 230; and when it is set to 2:30 PM, enter 1430.

The time is printed and displayed on the real time system.

Procedure



Example Setting the time as 2:30 PM (14:30)

Key operation

2611 [.] [@ / FOR]
1430 [CA/AT]

Print

```
08/26/01 2:30PM
000000 #0002
#2611 *PGM2*
2:30PM
```

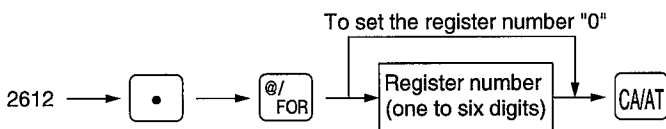
Time

2 Setting the register and consecutive numbers

■ Setting the register number PGM 2 2612

When your store has two or more registers, it is practical to set separate register numbers for their identification. You may set them in a maximum of six digits.

Procedure



Example To set the register number as "123456"

Key operation

2612 [.] [@ / FOR]
123456 [CA/AT]

Print

```
08/26/01 2:30PM
123456 #0003
#2612 *PGM2*
123456
```

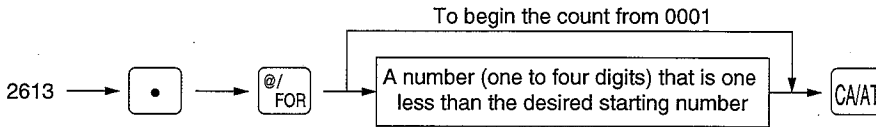
Register number

■ Setting the consecutive number PGM 2 2613

The consecutive number is increased by one each time an operation is completed (e.g. sales transaction, report, etc).

Enter a number (one to four digits) that is one less than the desired starting number.

Procedure



Example

Setting the count start number as "1001"

Key operation

2613 [•] [@/ FOR]
1000 [CA/AT]

Print

```
08/26/01 2:30PM
123456 #1000
#2613 *PGM2*
1000
```

Consecutive number

3 Programming for the automatic tax calculation function

Your machine has an automatic tax calculation feature which allows you to program four tax tables or rates to avoid calculating incorrect tax amounts.

Automatic tax calculations require you to program, in addition to the tax table and rate, the tax status of each pertinent department, PLU, UPC, and function key.

■ The tax table (applicable to the add-on tax) PGM 2 2710 Direct

Sample tax table

New Jersey tax table: 6%

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



A: Difference between the minimum breakpoint and the next one (¢)	
—	B: Non-cyclic
10 (0.11 - 0.01)	
12 (0.23 - 0.11)	
16 (0.39 - 0.23)	
18 (0.57 - 0.39)	
16 (0.73 - 0.57)	C: Cyclic-1
16 (0.89 - 0.73)	
22 (1.11 - 0.89)	
12 (1.23 - 1.11)	
16 (1.39 - 1.23)	
18 (1.57 - 1.39)	
16 (1.73 - 1.57)	D: Cyclic-2
16 (1.89 - 1.73)	
22 (2.11 - 1.89)	

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

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

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

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

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

Sample tax table

Example 8%

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

Modification of the left tax table

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



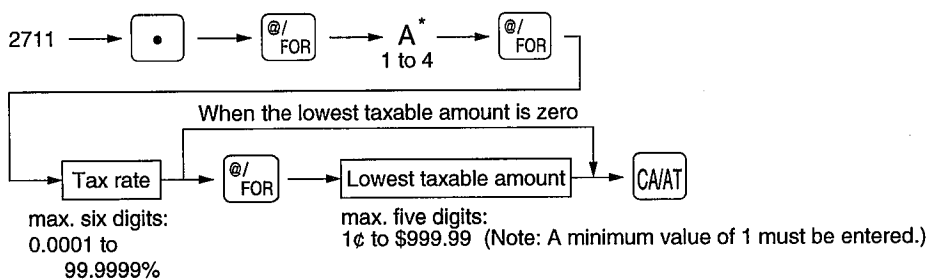
Breakpoint difference (¢)	
1	
10 (0.11-0.01)	B: Non-cyclic
15 (0.26-0.11)	
21 (0.47-0.26)	
21 (0.68-0.47)	
21 (0.89-0.68)	
0 (0.89-0.89)	
22 (1.11-0.89)	C: Cyclic-1
0 (1.11-1.11)	
0 (1.11-1.11)	
15 (1.26-1.11)	
21 (1.47-1.26)	
21 (1.68-1.47)	
21 (1.89-1.68)	
0 (1.89-1.89)	
22 (2.11-1.89)	D: Cyclic-2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

From the modified tax table above;

Rate = 8(%), T = \$0.01 = 1¢, Q = \$0.11 = 11¢, M1 = 1.11, M2 = 2.11, M = 100

■ The tax rate PGM 2 2711

Procedure



*A: When you program a tax rate as tax rate 1, enter "1"; when you program it as tax rate 2, enter "2"; when you program it as tax rate 3, enter "3"; and when you program it as tax rate 4, enter "4".

Example

Programming the tax rate 4% as tax rate 2 with tax exempt as 12¢

Key operation

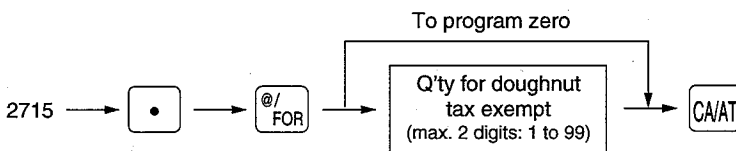
2711
 2
 4
 12

Print

#2711 *PGM2*	
TAX2	4.0000%
	0.12

Note

- If you make an incorrect entry before pressing the third key in programming a tax rate, cancel it with the key; and if you make an error after pressing the third key, cancel it with the key. Then program again from the beginning correctly.
- You do not need to enter the trailing zeros of the tax rate (after the decimal point), but you do need to enter the decimal for fractions.

■ Doughnut tax exempt (for the Canadian tax system) PGM 2 2715**Procedure****Note**

This option is available only when the Canadian tax system is selected.

Example

To program the q'ty "6"

Key operation

2715
 6

Print

#2715 *PGM2*	
EXPT COUNT	6

4 Programming for departments

Your machine is equipped with 20 standard departments and up to 50 optional departments. Your machine allows you to perform the following programming for each department:

■ Functional programming 1 PGM 2 2110

You can set each department for:

Compulsory item validation print

If item entries must be validated, program corresponding departments for compulsory item validation print.

Tare table number

- Assign tare table no. to each department (for scale entries).

Scale entry

- Program a department for scale entry (compulsory/enable/inhibit) when your store needs scale entries.

SICS (Single Item Cash Sale) / SIF (Single Item Finalization)

- SICS

If the first registration is to a department set for SICS, the sale is finalized as soon as the department key is pressed. If the sale is preceded by registrations to departments not set for SICS, a sale to a department set for SICS does not finalize and can be repeated until the **CAAT** key is pressed.

- SIF

Whenever a sale is made to a department set for SIF, the sale is finalized as soon as the department key is pressed.

Type of department

You may program each department as one of the following three types.

- Bottle Return (BR)
- Hash

A hash department is used to enter the amount of a special "sale", such as a gift certificate sale or for the receipt of payment for utility bills, theatre tickets, etc., i.e. "non-sales" registrations. Any amounts entered in this department are not added to the grand total except tax amounts.

- Normal

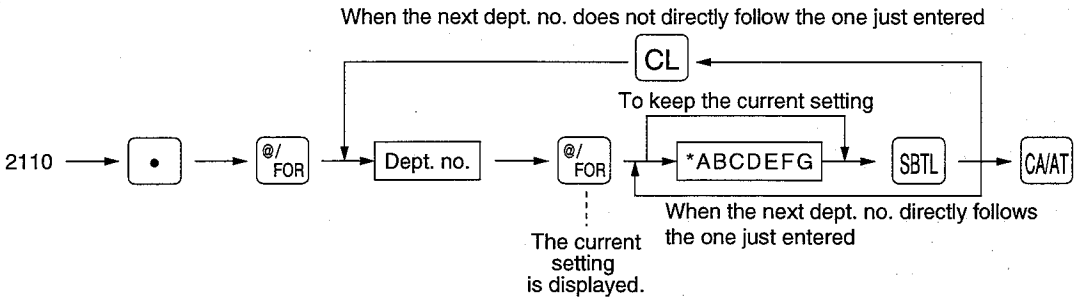
Note *If your register has not been set for "Bottle return and Hash dept." by your dealer, you cannot program the department for those operations. So contact your dealer if you need them.*

Type of unit price entry

You may select one of the following four types of unit price entry for each department.

- Open and preset
- Preset only
- Open only
- Inhibit department key

Procedure

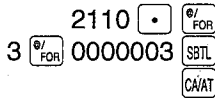


Item:	To:	Enter:
A	Always enter 0.	(Fixed position) 0
B	Item validation print compulsory/non-compulsory	set a department for item validation print compulsory 1
		set it for item validation print non-compulsory 0
C	Tare table number	0 - 9
D	Scale entry	program a department for scale entry compulsory 2
		program it for scale entry allowed 1
		program it for scale entry prohibited 0
E	SIF/SICS /Normal	set a department for SIF 2
		set it for SICS * 1
		set it for neither SIF nor SICS 0
F	Bottle Return/Hash/Normal	program a department as bottle return department 2
		program it as a hash department 1
		program it as a normal department 0
G	Type of unit price entry	set a department for "Open and preset" 3
		set it for "Preset only" 2
		set it for "Open only" 1
		set it for "Inhibit department key" 0

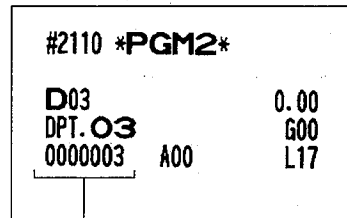
Example

Programming for department 3
 Enter A=0, B=0, C=0, D=0, E=0, F=0, and G=3 for department 3.

Key operation



Print



A thru G

Functional programming 2 PGM 2 2111 Direct

Sign (plus/minus)

- Assign a plus sign to those departments for which normal sale amounts are to be entered.
- Assign a minus sign to those departments for which payments for items such as bottle returns or other minus transactions are to be entered.

Food stamp status

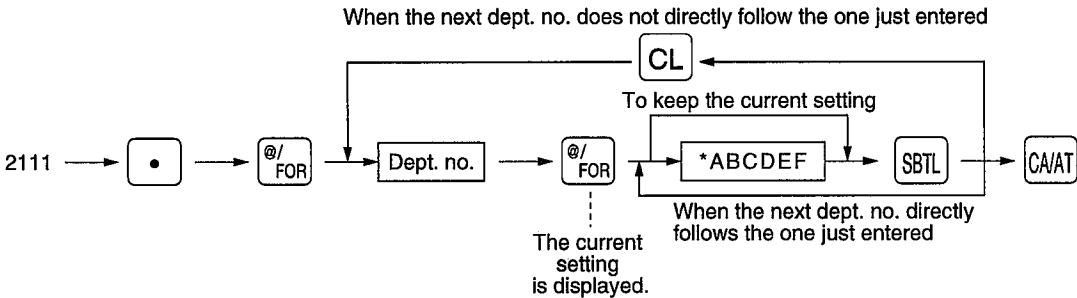
- Assign a food stamp status (food stamp eligible or food stamp ineligible) to each department.

Tax status

- Assign a tax status (taxable 1/taxable 2/taxable 3/taxable 4/non-taxable) to each department.
- When entries are made into taxable departments in a transaction, tax is automatically computed according to the associated tax table or rate as soon as the transaction is completed.

Note Tax 4 is prohibited if you use the food stamp function.

Procedure



* Item:	To:	Enter:
A Sign	assign the plus sign	0
	assign the minus sign	1
B Food stamp status	assign "food stamp ineligible"	0
	assign "food stamp eligible"	1
C Tax 4 status	assign "non-taxable"	0
	assign "taxable 4"	1
D Tax 3 status	assign "non-taxable"	0
	assign "taxable 3"	1
E Tax 2 status	assign "non-taxable"	0
	assign "taxable 2"	1
F Tax 1 status	assign "non-taxable"	0
	assign "taxable 1"	1

Example

Programming for departments 4 and 10

Enter A=0, B=1, C=0, D=0, E=0, F=1 for department 4.

Enter A=1, B=0, C=0, D=0, E=0, F=0 for department 10.

Key operation

```

2111 • @/FOR
4 @/FOR 010001 SBT
CL 10 @/FOR 100000 SBT
CA/AT
    
```

Print

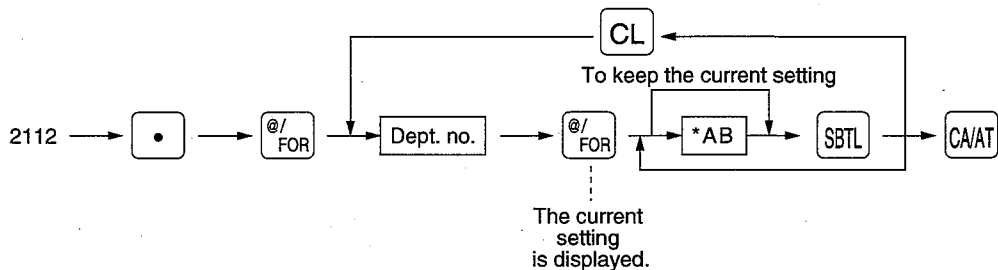
```

#2111 *PGM2*
D04 FT1 0.00 T1: Taxable 1
DPT. 04 G00 F: Food stamp
0000001 A00 L95 eligible
D10 -0.00 Minus dept.
DPT. 10 G00
0000001 A00 L17
    
```

■ A limit amount (HALO) of entry PGM 2 2112 Direct

You can set upper limit amounts (HALO: High Amount Lockout) for each department. The limit is effective for the REG-mode operations and can be overridden in the MGR mode. HALO limit is represented by two figures as follows:

Procedure



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

A: Significant digit (1 through 9)

B: Number of zeros to follow significant digit (0 through 7)

For example, presetting 14 (\$100.00) here means that amount entries of up to \$100.00 are allowed in the REG mode. But when you preset 17, the upper limit amount is 99999.99.

Example

Programming HALO limit of 9000.00 (95) for dept. 1

Key operation

2112 . @/FOR
 1 @/FOR 95 SBTL
 CA/AT

Print

```

#2112 *PGM2*
D01          0.00
DPT. 01     600
0000001  A00  L95
    
```

HALO limit

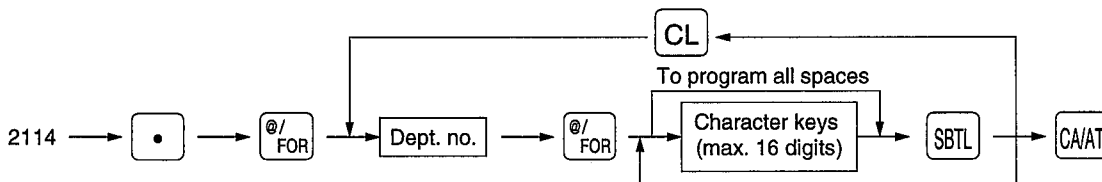
■ Alphanumeric characters PGM 2 2114

You can program 12 up to a maximum of 16 characters (item label) for each department. (The default setting is 12 characters.)

Please consult your Sharp dealer for the settings that have been preset for your unit.

Select the characters you want to program, by referring to section "2 How to program alphanumeric characters" in chapter "PRIOR TO PROGRAMMING".

Procedure



Example

Programming STEAK (steak) for dept. 1

Key operation

2114 . @/FOR
 1 @/FOR
 STEAK [SPACE] [SPACE] [SPACE] SBTL
 CA/AT

Print

```

#2114 *PGM2*

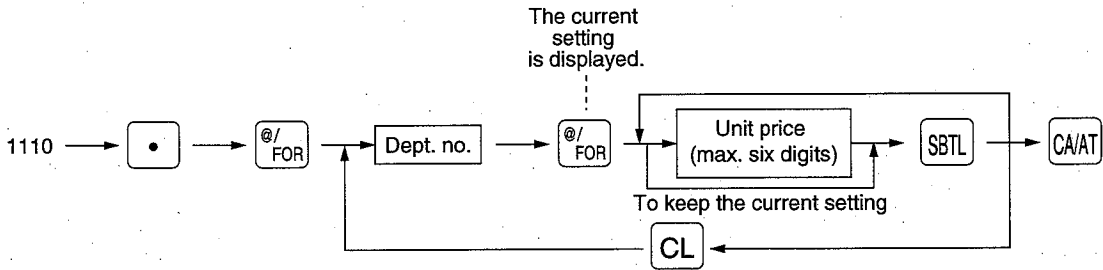
D01          0.00
STEAK          G00
0000001  A00  L95
  
```

Label programmed for dept. 1

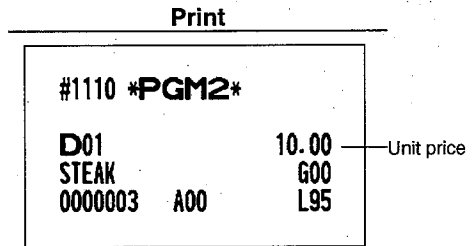
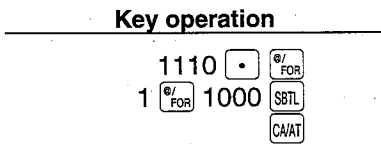
Unit price PGM 1 PGM 2 1110 Direct

You can program unit prices up to a maximum of six digits (\$9999.99). Even if a department has not programmed and you enter a preset unit price in functional programming 1 (job 2110), the department is automatically changed to allow preset unit price by this programming entry.

Procedure



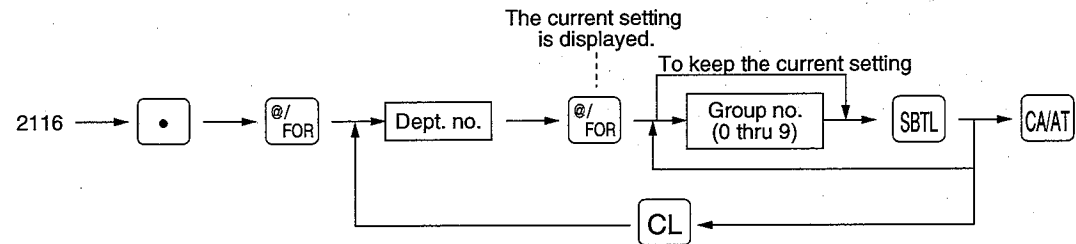
Example Programming \$10.00 for dept. 1



Group number PGM 2 2116

You can assign departments to a maximum of 9 groups (1 thru 9). Assign the desired departments to any of the 9 groups. This programming enables you to take the department group sales reports.

Procedure



Note To cancel the grouping, enter 0.

Example

Programming the group number 1 for dept.1 and the group number 2 for dept. 2

Key operation

```

2116 . [F0R]
  1 [F0R] 1 [SBTL]
    2 [SBTL]
      [CAVAT]
    
```

Print

```

#2116 *PGM2*

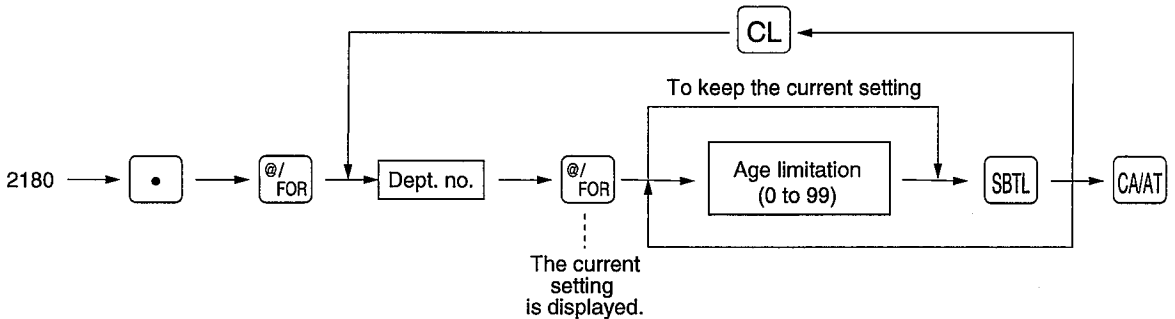
D01          10.00
STEAK                G01
0000003  A00        L95
D02           0.00
DPT.02           G02
0000001  A00        L17
    
```

} Group no.

Age limitation PGM 2 2180

If an item sold is not allowed to be sold to certain aged persons by law, program the age limitation for the corresponding department.

Procedure



Note

When a department for which a figure other than zero (01 to 99) has been programmed as the age limitation is entered, the birthday entry must be completed.

Example

Programming the age limitation "18" for dept. 2

Key operation

```

2180 . [F0R]
  2 [F0R]
  18 [SBTL]
    [CAVAT]
    
```

Print

```

#2180 *PGM2*

D02           0.00
DPT.02           G02
0000001  A18        L17
    
```

Age limitation

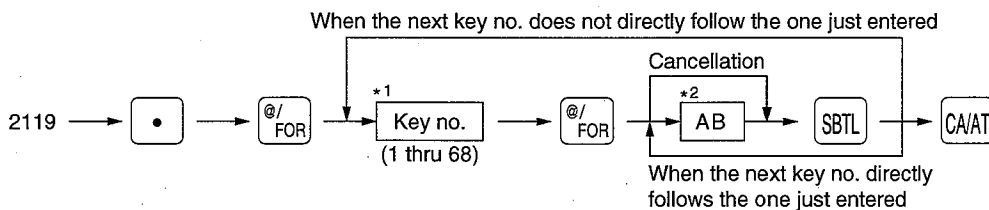
■ Department key positioning **PGM 2** **2119**

You can assign a department number to preset key positions. Each key position has a corresponding key number.

To assign the department to a key position, select a key number for the desired position and assign the department.

For key no. position, refer to section "2 Standard key number layout" in chapter "KEYBOARD".

Procedure



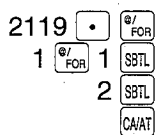
*1 The key number placement is determined by your local Authorized SHARP Dealer.

*2 AB is a department no.

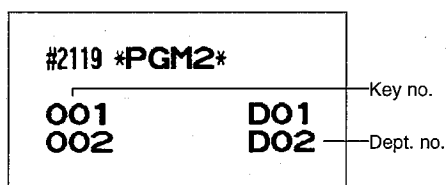
Example

Programming the key number 1 for dept.1 and 2 for dept. 2

Key operation



Print



5 Price lookup (PLU) programming

Your machine has two kinds of PLU registration methods.

Direct PLU registration: Accomplished by depressing the item key (direct PLU key) directly.

Indirect PLU registration: Accomplished by making an entry of a PLU number and pressing the PLU/SUB key.

Each PLU requires you to program the following:

PLU number (six digits)

Associate department

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

- Type (Bottle return/Hash/Normal)
- Single item cash sale/Single item finalization
- Item validation print compulsory/non-compulsory

Unit price (max. six digits)

You will usually have unit prices programmed for individual PLUs as unit prices, but when you set HALO entry limits for subdepartments, you will use these prices as upper limit amounts. If you program unit price "0.00" for a PLU, you can enter only the selling quantity into the PLU. (i.e. the PLU can be used only as a counter.)

Base quantity for split-pricing entries - two digits

Program a base quantity for each PLU/subdepartment dedicated to split-pricing entries.

Sign (+/-)

The function of every PLU/subdepartment varies according to the combination of its sign and its associate department's sign as follows:

Sign		Function of PLU/subdepartment
Dept.	PLU/subdept.	
+	+	Serves as a normal plus PLU/subdept.
-	-	Serves as a normal minus PLU/subdept.
+	-	Accepts store coupon entries, but not split-pricing entries.
-	+	Not valid; not accepted.

Food stamp status and tax status (taxable 1, 2, 3 and/or 4, non-taxable)

Item label (12 characters) (option: max. 16 characters)

Tare table number and scale entry

Linked PLU number

Any PLU is able to link to any other PLU (e.g. bottle deposit). However, the number of links is a maximum of 5. Even if more than 5 PLUs are linked, the sixth or higher link is not actualized.

Direct PLU key positioning

PLU, subdepartment, PLU/subdepartment, delete, or prohibit mode

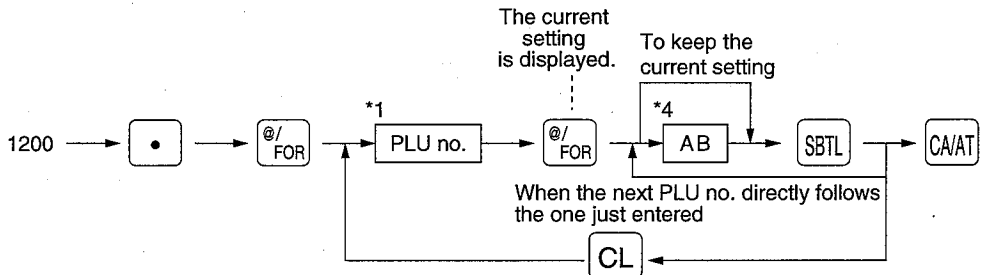
- If the PLU mode (i.e. automatic preset amount entry) is selected, individual PLU entries can be made by entering the assigned number and depressing the **PLU/SUB** key (or by depressing a direct PLU key without any number entry).
- If the subdepartment mode is selected, the entry of the assigned number and depression of the **PLU/SUB** key must then be followed by the entry of a unit price. The preset "price" assigned to a subdepartment is used as entry HALO amount.
- If the PLU/subdepartment mode is selected, the entries in both the PLU and subdepartment modes are available.
- If the delete mode is selected, data programmed for each PLU is deleted.
- If the prohibit mode is selected, the assigned PLU code cannot be entered. This mode does not clear the PLU/subdepartment program data.

Note For some items, you can program them in two ways: programming an individual PLU number and for a range of sequential PLU numbers. The procedure marked "For each PLU" shows individual PLU programming. The procedure "For a range of PLUs" shows range PLU programming.

Department assignment **PGM 1** **PGM 2** **1200** **2230** **Direct**

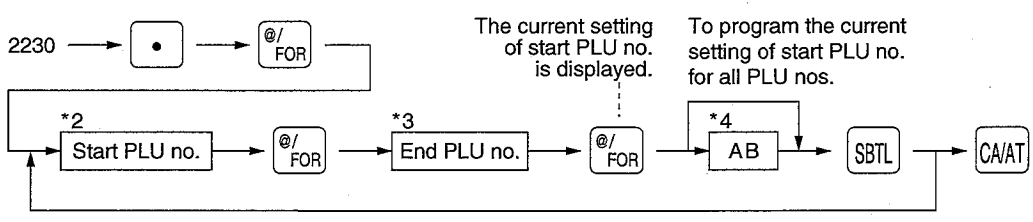
Procedure

For each PLU



Note As soon as the programming is completed for one PLU, the next PLU number appears in the display.

For a range of PLUs



*1, 2, 3: 1 thru 999999 (free code)
 *4: AB: Associated department number

Example

Programming "\$1.25" for PLU no. 1

Key operation

1210
 1 125

Print

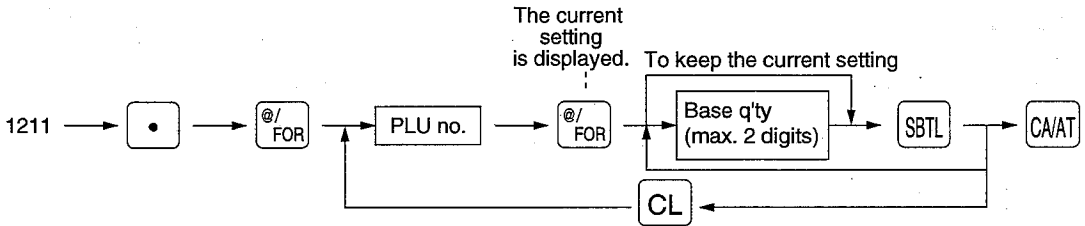
```
#1210 *PGM2*
P000001 (02)      /00
                  1.25 — Unit price
PL000001
002      A00
```

Base quantity

PGM 1

PGM 2

1211

Procedure**Example**

Programming "12" for PLU no. 2

Key operation

1211
 2 12

Print

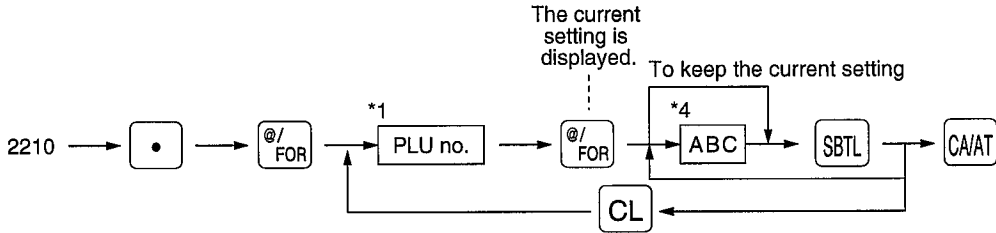
```
#1211 *PGM2*
P000002 (02)      /12 — Base q'ty
                  0.00
PL000002
002      A00
```

■ **PLU/subdepartment mode, tare table no. and scale entry** PGM 2 2210 2231

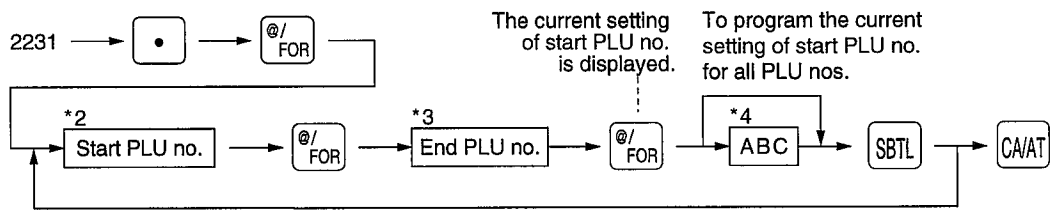
Direct

Procedure

For each PLU



For a range of PLUs



*1,2,3: 1 thru 999999

*4: Item:	To:	Enter:
A	Tare table no.	0 - 9
B	Scale entry	program "scale inhibited"
		program "scale allowed"
		program "scale compulsory"
C	Mode parameter	inhibit PLU/subdept.
		select the subdept. mode
		select the PLU mode
		select the PLU/subdept. mode
	select the delete mode	4

Example

For each PLU

To program A=0, B=0, C=3 for PLU no. 1

Key operation

2210 [dot] [*/FOR]
 1 [*/FOR] 003 [SBTL]
 [CA/AT]

Print

```
#2210 *PGM2*
P000001(O2) /00
                1.25
PL000001
003           A00
```

3: PLU/subdept. mode

For a range of PLUs

Programming PLU numbers 11 thru 20 for "PLU/subdept. mode"

Key operation

2231
 11 20
 003

Print

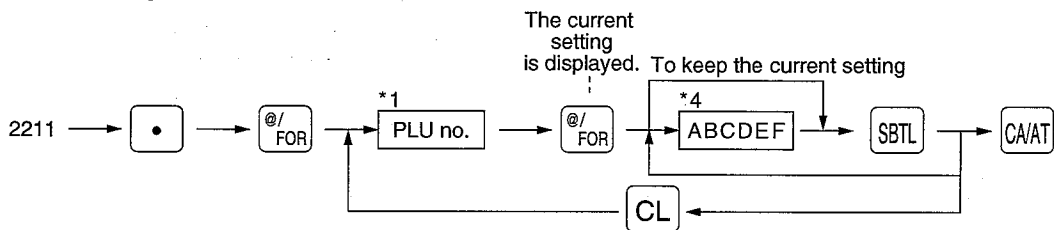
```
#2231 *PGM2*
P000011 -P000020
003
```

PLU range
 3: PLU/subdept. mode

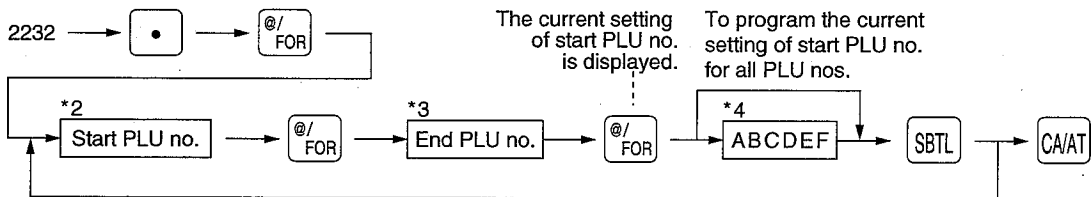
■ Sign (+/-), food stamp status, and tax status PGM 2 2211 2232 Direct

Procedure

For each PLU



For a range of PLUs



*1,2,3: 1 thru 999999

*4: Item:	To:	Enter:
A Sign (+/-)	set as a plus PLU	0
	set as a minus PLU	1
B Food stamp status	assign "food stamp ineligible"	0
	assign "food stamp eligible"	1
C Tax 4 status	assign "non-taxable"	0
	assign "taxable 4"	1
D Tax 3 status	assign "non-taxable"	0
	assign "taxable 3"	1
E Tax 2 status	assign "non-taxable"	0
	assign "taxable 2"	1
F Tax 1 status	assign "non-taxable"	0
	assign "taxable 1"	1

Note

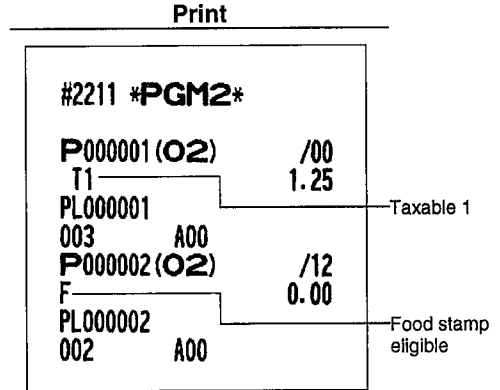
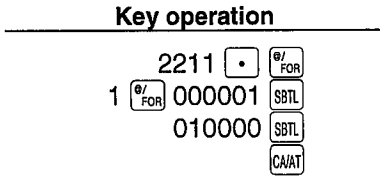
- Tax 4 is prohibited if you use the food stamp function.
- A PLU not programmed for Tax 1 through Tax 4 statuses is registered depending on the tax status of the department which the PLU belongs to.

Example

For each PLU

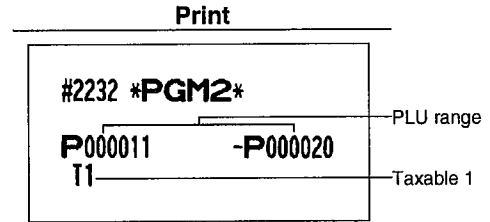
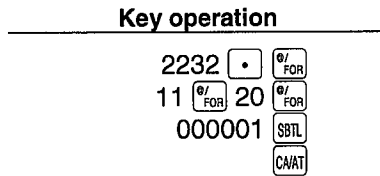
Programming:

- "plus PLU", "food stamp ineligible" and "taxable 1" for PLU no.1
- "plus PLU", "food stamp eligible" and "non-taxable" for PLU no.2



For a range of PLUs

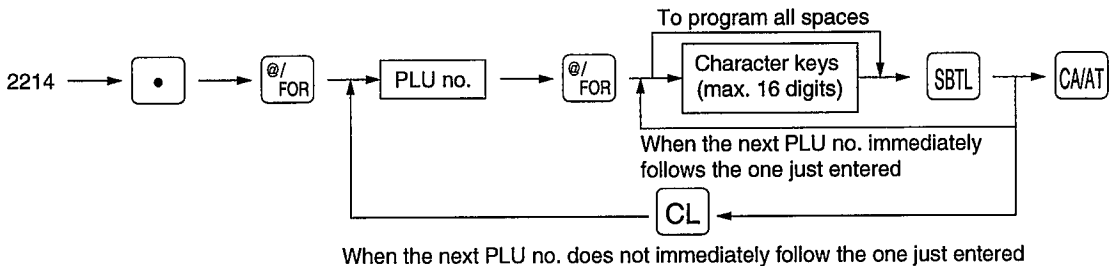
Programming PLU numbers 11 thru 20 for "+ (plus)", "Food stamp ineligible", and "Taxable 1"



■ Alphanumeric characters PGM 2 2214

You can program 12 up to a maximum of 16 characters (item label) for each PLU or subdepartment. (The default setting is 12 characters.) Please consult your Sharp dealer for the settings that have been preset for your unit. Select the characters you want to program, by referring to section "2 How to program alphanumeric characters" in chapter "PRIOR TO PROGRAMMING".

Procedure



Example

Programming MILK(milk) for PLU no.1

Key operation

2214
 1
 MILK

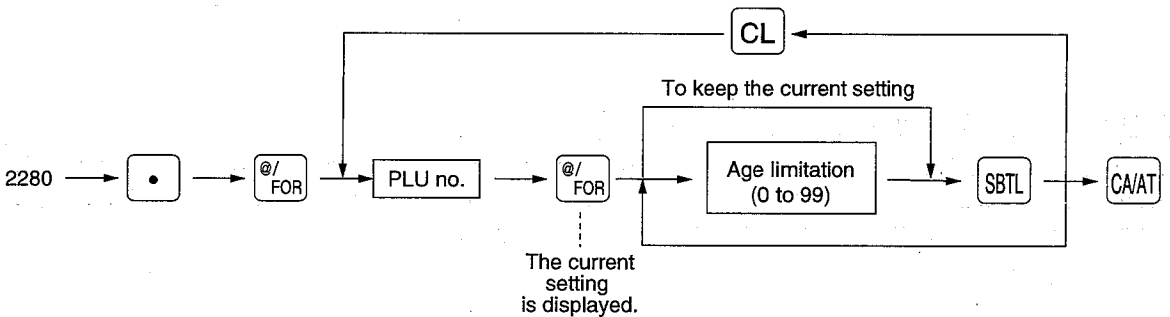
Print

```
#2214 *PGM2*
P000001 (02) /00
T1 1.25
MILK _____
003 A00
```

Label programmed for PLU no. 1

Age limitation PGM 2 2280

If an item sold is not allowed to be sold to certain aged persons by law, program the age limitation for the corresponding PLU.

Procedure**Note**

When a PLU for which a figure other than zero (01 to 99) has been programmed as the age limitation is entered, the birthday entry must be completed.

Example

Programming the age limitation "18" for PLU no. 2

Key operation

2280
 2
 18

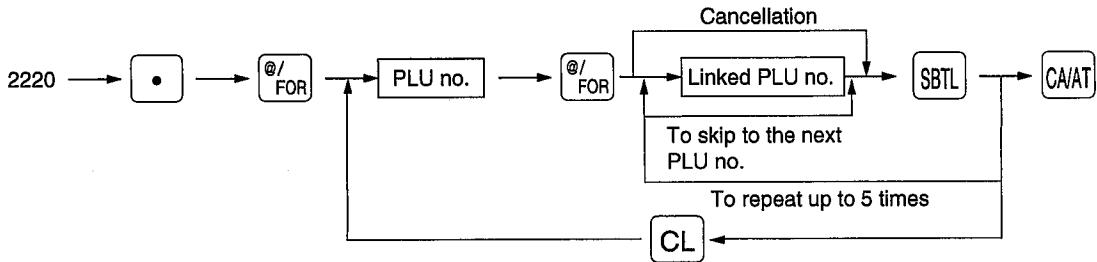
Print

```
#2280 *PGM2*
P000002 (02) /12
F 0.00
PL000002
002 A18
```

Age limitation

■ Linked PLU numbers PGM 2 2220

Procedure



Example

Programming so that PLU nos. 25, 26 and 27 are linked to PLU no. 21

Key operation

```

2220 • @/FOR
21 @/FOR 25 SBTL
          26 SBTL
          27 SBTL
          CA/AT
    
```

Print

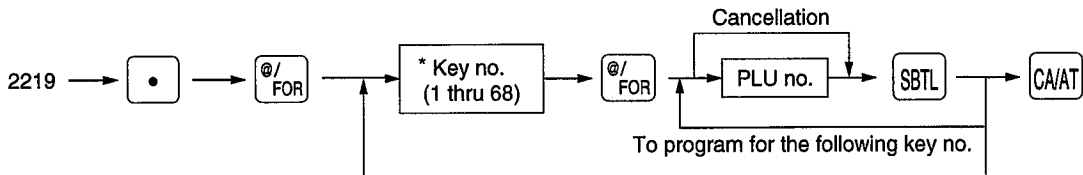
```

#2220 *PGM2*
P000021      LP000025 — Linked PLU no.
              P000026
              P000027
    
```

■ Direct PLU key positioning PGM 2 2219

You can assign a PLU number to preset key positions. Each key position has a corresponding key number. To assign the PLU to a key position, select a key number for the desired position and assign the PLU. For key no. positions, refer to section "2 Standard key number layout" in the chapter "KEYBOARD".

Procedure



* The key number placement is determined by your local Authorized SHARP Dealer.

Example

Programming so that PLU no.1 is assigned to key no.16

Key operation

```

2219 • @/FOR
      16 @/FOR
      1  SBTL
      CA/AT
    
```

Print

```

#2219 *PGM2*
016      P000001 — PLU no.
          — Key no.
    
```

6 Universal Product Code (UPC) or European Article Number (EAN) programming

■ UPC or EAN code

Your machine can support the following codes:

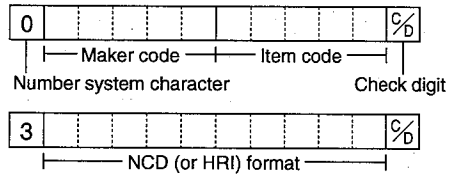
- UPC-A (Number system character: 0, 2, 3, 4)
- UPC-E
- EAN-8
- EAN-13
- Internal code EAN-8/EAN-13

For the codes used in-store marking, there are two types of PLU type (treated as a code like PLU no.) 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.)

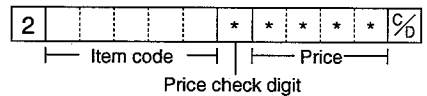
UPC-A

- Number system character: 0 <used in the source marking>
- Number system character: 3 <used as NDC or HRI>



For entry, a full 12 digit number or 11 digit number (omitting the check digits) must be entered.

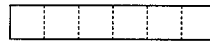
- Number system character: 2 <In-store marking Non-PLU type>
You can program the format by the job #2025.
- Number system character: 4 <In-store marking PLU type>



For entry, a full 12 digit number, 11 digit number (omitting the check digit), or a leading zero plus 12 digit 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 packages.



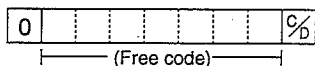
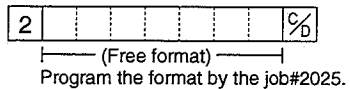
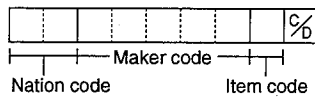
For entry, a 6 digit number or a leading zero plus 6 digits number must be entered.

EAN 8

- Ordinary EAN-8 code (flag: neither 0 nor 2) <used in the source marking>

For entry, a full 8 digit number must be entered.

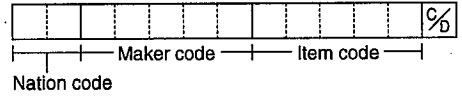
- Internal code (flag 2) <in-store marking non-PLU short type>
Program the format by the job #2025.
- Internal code (flag 0) <in-store marking PLU short type>



For entry, a full 8 digit number must be entered. On the receipt/journal, non-PLU type code is printed like 208**** (****: price/quantity information)

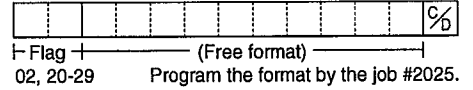
EAN-13

- 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 by the job# 2025.



■ 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 UPC/EAN code entered from the total number of digits and the flag.

■ UPC/EAN programming

Each UPC or EAN (hereinafter referred to as UPC) requires you to program the following.

- **UPC code (max. 13 digits)**
- **Associated department (1-50)**
When an UPC is associated with a department, the following functions of the UPC depend on the programming for the department.
 - Type (Bottle return/Hash/Normal)
 - HALO (only for the subdepartment)
 - Single item cash sale/Single item finalization

UPC code delete method

You can program how you delete UPC codes; deleting in the programming, inhibit deleting, or deleting the UPC codes that have not been accessed for a certain period, which can be programmed (up to 99 days) when you execute #105 in Z1 mode.

Unit price (max. six digits)

Base quantity for split-pricing entries

Sign (+/-)

Tax status

If you do not program tax status for a UPC, the tax status of the UPC follows to the status of the associated department.

Item label (12 characters) (option max. 16 characters)

Tare table no. and scale entry

UPC link

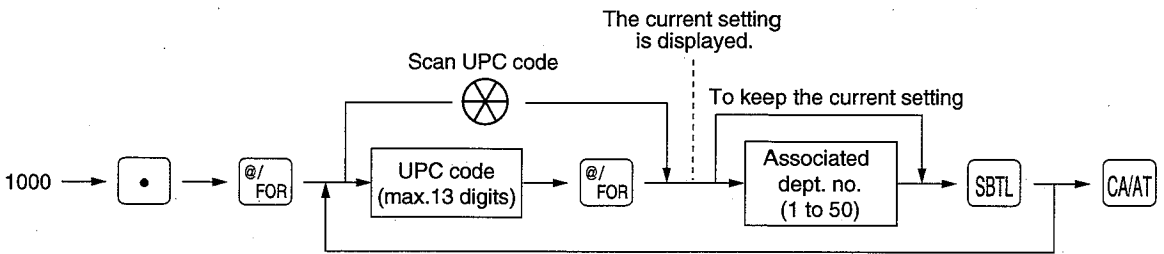
System programming for UPC functions

Delete period for non-accessed UPC codes

Non-PLU code format

■ Department assignment PGM 1 PGM 2 1000 Direct

Procedure



Example

Key operation

1000 . @/FOR
 5012345678900 @/FOR
 2 SBT
 CAVAT

Print

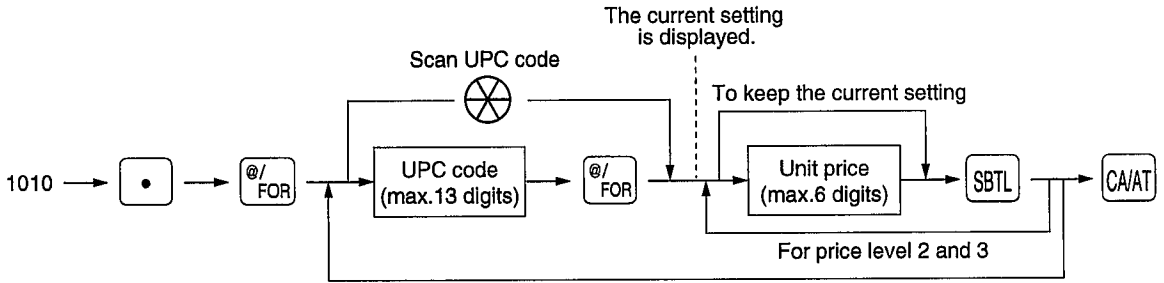
```

#1000 *PGM2*
5012345678900# (02) /00
                0.00
000      A00      M00
  
```

UPC code
 Associated dept.

■ **Unit prices** PGM 1 PGM 2 **1010** Direct

Procedure



Example

Key operation

1010 [dot] [@/ FOR]
 5012345678900 [@/ FOR]
 250 [SBTL]
 [CAIAT]

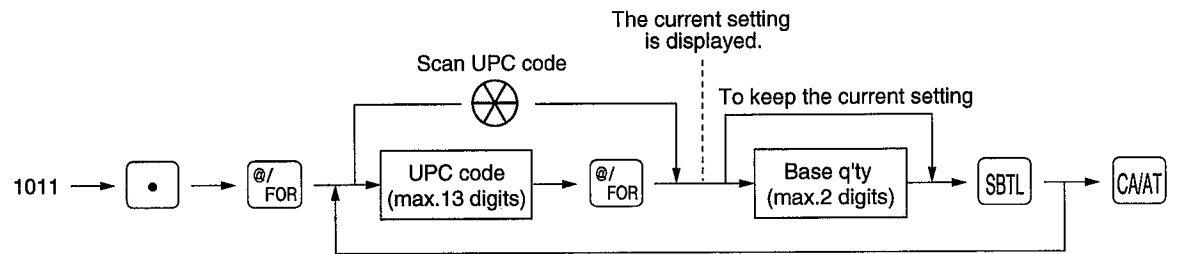
Print

```
#1010 *PGM2*
5012345678900# (02)/00
                2.50
000      A00      M00
```

Unit price

■ **Base quantity** PGM 1 PGM 2 **1011**

Procedure



Example

Key operation

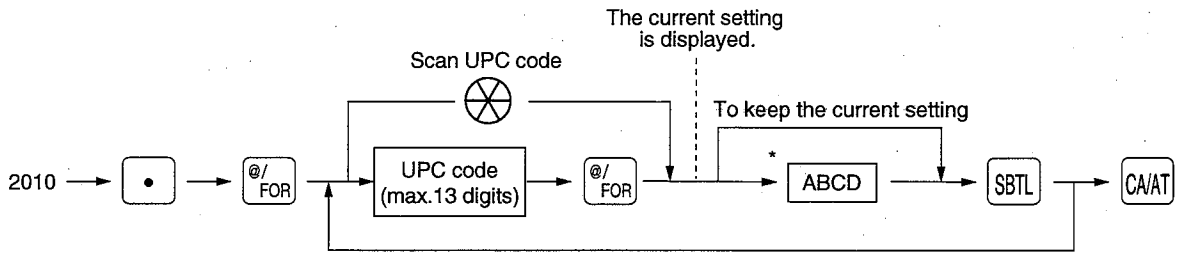
1011 [dot] [@/ FOR]
 5012345678900 [@/ FOR]
 5 [SBTL]
 [CAIAT]

Print

```
#1011 *PGM2*
5012345678900# (02)/05
                2.50
000      A00      M00
```

Base q'ty

Procedure



* Item:	To:	Enter:
A Price shift entry	Compulsory	2
	Inhibit	1
	Allowed	0
B Tare table no.		0 - 9
C Scale entry	Compulsory	2
	Allowed	1
	Inhibit	0
D Delete method (To erase from the UPC file)	Delete now	4
	Inhibit to delete in non-accessed UPC deleting job (#105 in Z1 mode)	1
	Delete in non-accessed UPC deleting job (#105 in Z1 mode)	0

With the execution of the UPC deleting job, you can delete UPCs that have not been accessed during the period that is programmed in the job #2029.

Example

Key operation

2010 [.] [@/ FOR]
 5012345678900 [@/ FOR]
 0001 [SBTL]
 [CA/AT]

Print

```
#2010 *PGM2*
5012345678900# (02) /05
* 2.50
000 A00 M00
```

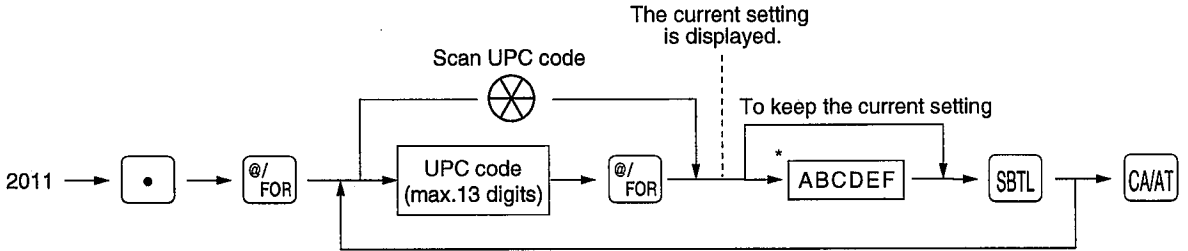
Delete method
 (Inhibit to delete by job#105 in Z1 mode)
 In case of "delete", no mark is printed.

When "delete now" is selected:

```
#2010 *PGM2*
5012345678900# ----
```

■ Sign (+/-), food stamp status, and tax status PGM 2 2011 Direct

Procedure



Item:	Selection:	Entry:
A Sign (+/-)	Minus PLU	1
	Plus PLU	0
B Food stamp status	Eligible	1
	Ineligible	0
C Tax 4 status	Taxable 4	1
	Non-taxable	0
D Tax 3 status	Taxable 3	1
	Non-taxable	0
E Tax 2 status	Taxable 2	1
	Non-taxable	0
F Tax 1 status	Taxable 1	1
	Non-taxable	0

Note

Sign (plus/minus)
 The function of every UPC varies according to the combination of its sign and the sign of its associated department as follows:

Sign		Function of UPC
Department	UPC	
+	+	Serves as a normal plus UPC
-	-	Serves as a normal minus UPC
+	-	Accepts vendor coupon entries, but not split-pricing entries
-	+	Not valid; not accepted

Tax status (taxable 1 thru 4/non-taxable)

- Tax 4 is prohibited if you use the food stamp function.
- A UPC not programmed for any of Tax 1 thru Tax 4 is registered depending on the tax status of the department which the UPC belongs to.

Example

Key operation

2011 [] @/FOR
 5012345678900 @/FOR
 000001 SBTTL
 CAIAT

Print

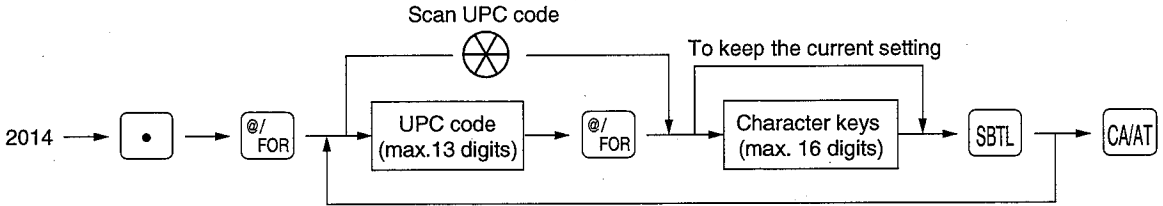
```
#2011 *PGM2*
5012345678900# (02)/05
* T1 2.50
000 A00 M00
```

Taxable 1

■ Alphanumeric characters PGM 2 2014

You can program 12 up to a maximum of 16 characters (item label) for each UPC. (The default setting is 12 characters.) Please consult your Sharp dealer for the settings that have been preset for your unit. Select the characters you want to program, by referring to section "2 How to program alphanumeric characters" in chapter "PRIOR TO PROGRAMMING".

Procedure

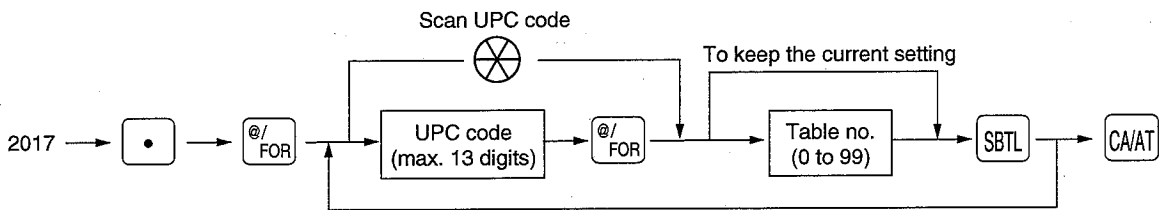


Example

Key operation	Print
2014 <input type="button" value="."/> <input type="button" value="@/FOR"/> 5012345678900 <input type="button" value="@/FOR"/> APPLE <input type="button" value="SBTL"/> <input type="button" value="CA/AT"/>	<pre> #2014 *PGM2* 5012345678900# (02)/05 * T1 0.00 APPLE 000 A00 M00 </pre> <p style="text-align: right;">Item label</p>

■ Mix-and-match table no. PGM 2 2017

Procedure



Example

Key operation	Print
2017 <input type="button" value="."/> <input type="button" value="@/FOR"/> 01234567890 <input type="button" value="@/FOR"/> 1 <input type="button" value="SBTL"/> 32345678910 <input type="button" value="@/FOR"/> 2 <input type="button" value="SBTL"/> <input type="button" value="CA/AT"/>	<pre> #2017 *PGM2* 012345678905# (01)/00 0.00 000 A00 M01 323456789108# (01)/00 0.00 000 A00 M02 </pre> <p style="text-align: right;">UPC code</p> <p style="text-align: right;">Table no.</p>

■ Programming for the mix-and-match table PGM 2 2020

This function is effective for matching several kinds of items and selling them in a combinations (e.g. bundle sale, multi-packed sale, etc.).

The mix-and-match table consists of the adjust amount and the matching q'ty for discount (satisfying count of entered items).

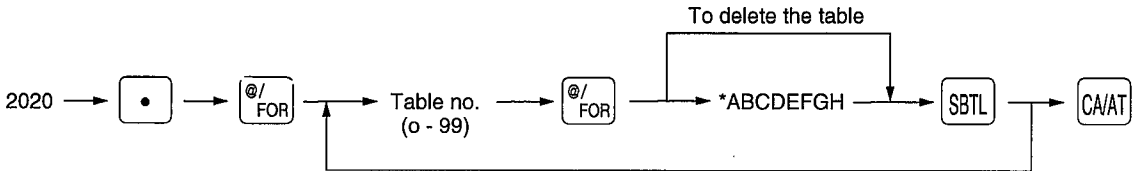
If the transaction that the mix-and-match item is registered is entered, the sales amount may be discounted as follows.

[Ex.] Mix-and-match items of table no. 1: Item-A (*2.30), Item-B (*3.10), Item-C (*2.50)
 Matching q'ty for discount: 3
 Adjust amount: *1.00

<Sale 1>	<Sale 2>	<Sale 3>
Item-A *2.30	Item-C *2.50	Item-A *2.30
Item-A *2.30	Item-C *2.50	Item-B *3.10
Item-B *3.10	Item-C *2.50	Item-C *2.50
Subtotal *7.70	Subtotal *7.50	Subtotal *7.90
Discount -6.70	Discount -6.50	Discount -6.90
Total *1.00	Total *1.00	Total *1.00

• Definition of mix-and-match table

Procedure



* AB: Matching q'ty for discount (1 - 99)
 CDEFGH: Adjust amount (max. 6 digits)

Example

To program adjust amount (*1.00) and matching q'ty (3) to mix-and-match table no. 1

Key operation

2020 • @/ FOR
 1 @/ FOR 3000100 SBTL
 CAVAT

Print

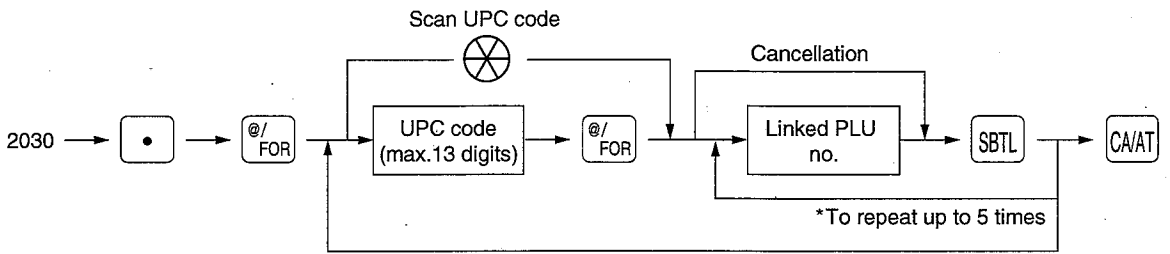
```

#2020 *PGM2*
#01 /03 1.00
  
```

Table no.
 Adjust amount
 Matching q'ty for discount

UPC link PGM 2 **2030**

Procedure



* The programmed number of linked PLUs is shown on the display like "P 1". (Incremented one every time you program a linked PLU.)

Note UPC code and PLU no. must have been already defined.

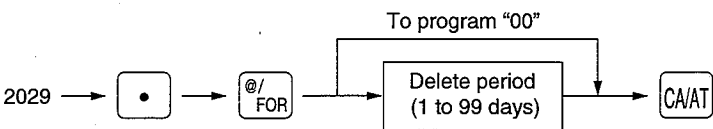
Example

Key operation	Print
2030 <input type="button" value="."/> <input type="button" value="@/ FOR"/> 5012345678900 <input type="button" value="@/ FOR"/> 30 <input type="button" value="SBTL"/> 31 <input type="button" value="SBTL"/> 32 <input type="button" value="SBTL"/> CA/AT	<pre> #2030 *PGM2* 5012345678900#L P000030 P000031 P000032 </pre> <p style="text-align: right;">Linked PLU</p>

Delete period for non-accessed UPC codes PGM 2 **2029**

You can delete the UPC codes which have not been accessed during the period you set in this program when you execute the job #105 in Z1 mode when you set "Delete in non-accessed UPC deleting job" in the UPC delete method (#2010).

Procedure



* When you select "00" for the period, no UPC code is deleted by the non-accessed UPC deleting job.

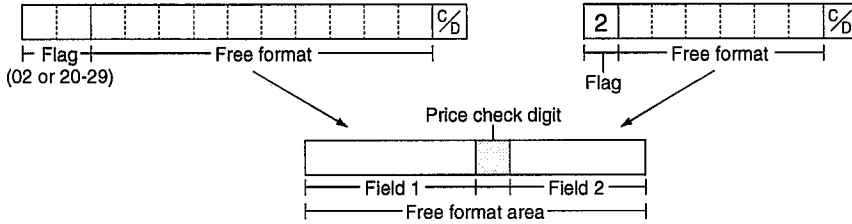
Example

Key operation	Print
2029 <input type="button" value="."/> <input type="button" value="@/ FOR"/> 60 <input type="button" value="CA/AT"/>	<pre> #2029 *PGM2* #2029 60 </pre>

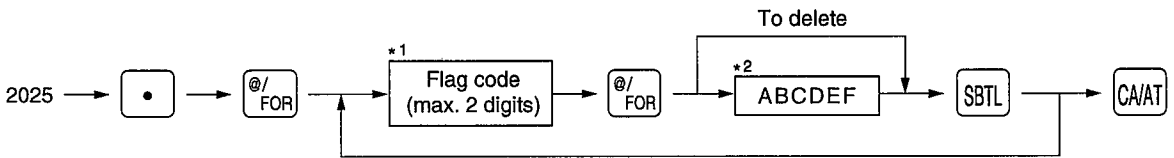
■ Programming Non-PLU code format PGM 2 2025

The register allows you to specify the Non-PLU code format (flag code: 2, 02, 20 -29).

The format data is as follows:



Procedure

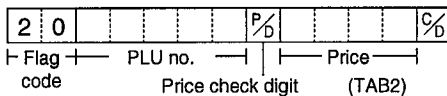


*1 Flag code: 2, 02, 20 - 29

*2 Item:	Selection:	Entry:
A	Length of field 1 (number of digits)	0 - 9
B	Length of field 2 (number of digits)	0 - 9
C	Always enter 0. (Fixed position)	0
D	Meaning of field 2*3	Quantity
		Price
E	Price check digit used	Yes
		No
F	TAB or decimal point of field 2 (0, 1, 2, 3)	0 - 3

*3: When you preset a quantity, the sales amount is calculated as follows: quantity x unit price programmed in #1010.

Example



Key operation

2025 @/ FOR
 20 @/ FOR
 540012 SBTL
 CAIAT

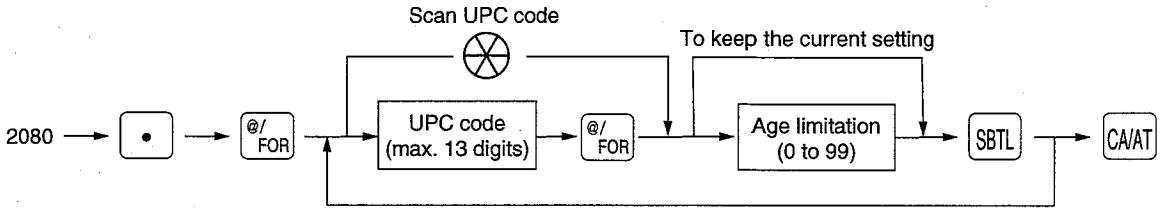
Print

#2025 *PGM2*
 20 540012 — ABCDEF
 Flag code

■ Age limitation PGM 2 2080

If an item sold is not allowed to be sold to certain aged persons by law, program the age limitation for the corresponding UPC.

Procedure



Note When a UPC for which a figure other than zero (01 to 99) has been programmed as the age limitation is entered, the birthday entry must be completed.

Example

Programming the age limitation "18" for UPC code 32345678910

Key operation

```

2080 [dot] [ @/FOR ]
32345678910 [ @/FOR ]
18 [ SBTL ]
[ CA/AT ]
    
```

Print

```

#2080 *PGM2*
32345678910# (01)/00
0.00
000 A18 M02
    
```

Age limitation

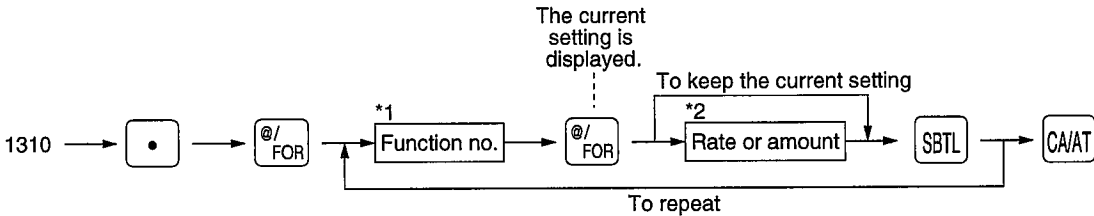
7 Programming for miscellaneous keys

Only function keys which you have programmed on the keyboard will be allowed the rate, HALO and tax status programming.

■ Programming the rate (⊖), (CONV) and the discount (⊖) PGM 1 PGM 2 1310 Direct

You can program percent rates, currency conversion rates, and discount amount.

Procedure



*1: Function no.

- | | |
|-------------------------------|-----------------------------------|
| 1: For the ⊖ ₁ key | 7: For the % ₃ key |
| 2: For the ⊖ ₂ key | 8: For the % ₄ key |
| 3: For the ⊖ ₃ key | 71: For the CONV ₁ key |
| 4: For the ⊖ ₄ key | 72: For the CONV ₂ key |
| 5: For the % ₁ key | 73: For the CONV ₃ key |
| 6: For the % ₂ key | |

*2: Rate or amount

- 0 — 999999 (Discount amount)
- 0.00 — 100.00 (% rate)
- 0.0000 — 9999.9999 (Currency conversion rate)

Example

Assigning \$10.00 to the ⊖₁ key, 10.25% to the %₁ key, and 1.325 to the CONV₁ key.

Key operation

```

1310 . @/ FOR
1 @/ FOR 1000 SBTL
5 @/ FOR 10 . 25 SBTL
71 @/ FOR 1 . 325 SBTL
CA/AT
    
```

Print

```

#1310 *PGM2*
F001 (-) 1
S -10.00 — Discount amount
L17
F005 %1
S -10.25% — Percent rate
L100.00%
F071 CONV 1
1.3250 — Conversion rate
    
```

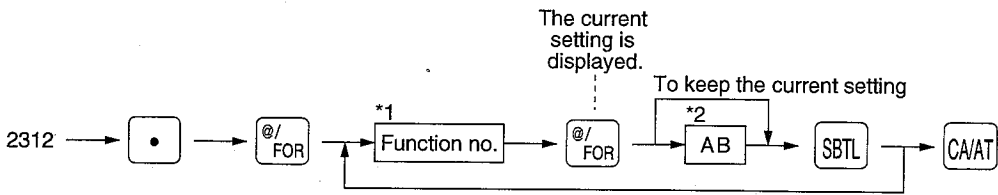
Note

You must use a decimal point when setting percentage rates that are fractional.

■ **A limit amount (HALO) of entry** (⊖, TAX, RA, PO) PGM 2 2312 Direct

The HALO limit is in effect for the REG-mode operations but can be overridden in the MGR mode. The HALO limit is represented by two figures as follows:

Procedure



- *1: Function no.
- 1: For the ⊖1 key 64: For the RA key
 - 2: For the ⊖2 key 65: For the RA2 key
 - 3: For the ⊖3 key 66: For the PO key
 - 4: For the ⊖4 key 67: For the PO2 key
 - 32: For the TAX key

- *2: AB is the same as A x 10^B.
- A: Significant digit (0 through 9)
 - B: Number of zeros to follow significant digit
 - 0 through 7 (for the ⊖1 thru ⊖4, and TAX keys)
 - 0 through 8 (for the RA, RA2, PO, and PO2 keys)

For example, presetting 13 (\$10.00) here means that amount entries of up to \$10.00 are allowed in the REG mode.

You can set up AB = 17 for no limitation (for the ⊖1 thru ⊖4, and TAX keys).
 You can set up AB = 18 for no limitation (for the RA, RA2, PO, and PO2 keys).

Example Programming 13 for the ⊖1 key.

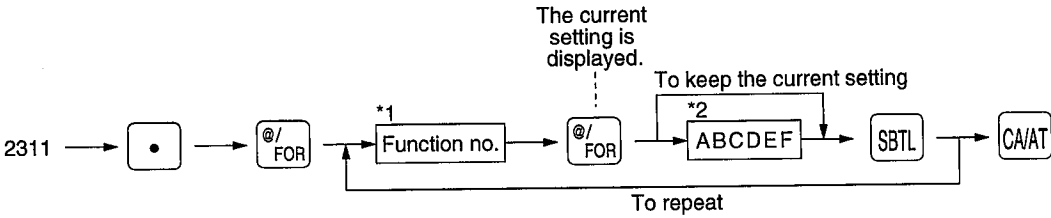
Key operation	Print
2312 <input type="button" value="."/> <input type="button" value="@/FOR"/> 1 <input type="button" value="@/FOR"/> 13 <input type="button" value="SBTL"/> <input type="button" value="CA/AT"/>	#2312 *PGM2* F001 (-) 1 S -10.00 L13
	— HALO limit

■ **+/- sign, food stamp status, and tax status** (% , ⊖) PGM 2 2311 Direct

- +/- sign:** Programming of the +/- sign assigns the premium or discount function for each key.
- Food stamp status:** Programming of the food stamp status decides whether a premium or discount should be dealt with as a food stamp-eligible amount or not.
- Tax status:** Programming of the tax status decides whether a premium or discount should be dealt with as a taxable (taxable 1/2/3/4) or non-taxable amount.

Note Tax 4 is prohibited if you use the food stamp function.

Procedure



*1: Function no.

- 1: For the key
- 2: For the key
- 3: For the key
- 4: For the key
- 5: For the key
- 6: For the key
- 7: For the key
- 8: For the key

*2: As follows:

Item:	To:	Enter:
A	+/- sign	select the + (premium) sign
		select the -(discount) sign
B	Food stamp status	assign "food stamp ineligible"
		assign "food stamp eligible"
C	Tax 4 status	assign "non-taxable"
		assign "taxable 4"
D	Tax 3 status	assign "non-taxable"
		assign "taxable 3"
E	Tax 2 status	assign "non-taxable"
		assign "taxable 2"
F	Tax 1 status	assign "non-taxable"
		assign "taxable 1"

Example

Assigning the "+" sign, "food stamp ineligible", and "taxable 1" to the key and the "-" sign, "food stamp ineligible," and "non-taxable" to the key.

Key operation

```

2311  
5  000001 
6  100000 

    
```

Print

```

#2311 *PGM2*
F005 %1
S      |      10.25%
      T1      L100.00%
F006 %2
S      |      -0.00%
      |      L100.00%
    
```

T1: Taxable 1
 "-": Discount

■ % item or % subtotal selection ([]) PGM.2 2315

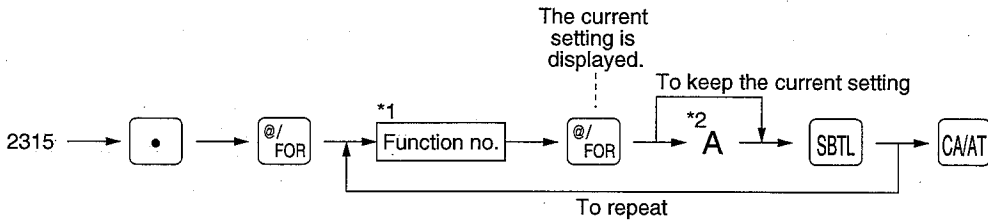
% item

Select this when a percent calculation is desired for the individual department and PLU.

% subtotal

Select this when a percent calculation is desired for merchandise subtotals.

Procedure



*1: Function no.

5: For the [] key

6: For the [] key

7: For the [] key

8: For the [] key

*2: A

0: % subtotal

1: % item

Example

To select "% item" for [] key and "% subtotal" for [] key

Key operation

```

2315 [ ] [ ]
5 [ ] 1 [ ]
6 [ ] 0 [ ]

```

Print

```

#2315 *PGM2*
F005 %1
I _____ 10.25%
T1          L100.00%
F006 %2
S _____ -0.00%
           L100.00%

```

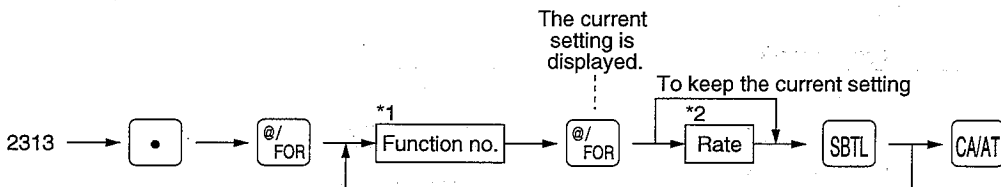
The printout shows the results of the key operations. The first section, labeled '% item', shows a calculation for F005 resulting in 10.25% and a subtotal of L100.00%. The second section, labeled '% subtotal', shows a calculation for F006 resulting in -0.00% and a subtotal of L100.00%.

■ Percent rate limitation ([]) PGM.2 2313

You can program the upper limit of percent rates for percent entries.

(Percent entries that use the upper limit may be overridden in the MGR mode.)

Procedure



*1: Function no.

5: For the [] key

6: For the [] key

7: For the [] key

8: For the [] key

*2: Rate

0.00 – 100.00 (Entering 0.00 inhibits the open percent rate entry.)

8 Programming for the CA/AT, CA2, CHK, CHK2, and CH thru CH5 keys

Functional programming PGM 2 2320

You can set each media for:

Bill (slip) print compulsory/non-compulsory

Footer printing

This programming decides whether or not your machine should print a message at the foot of a receipt when a specified media key is used.

Non-add code compulsory

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

Change enable (over-tender)

Either change enable or disable can be selected for a corresponding media key.

Compulsory validation print

If media entries must be validated, set the corresponding media for compulsory validation print.

Drawer open

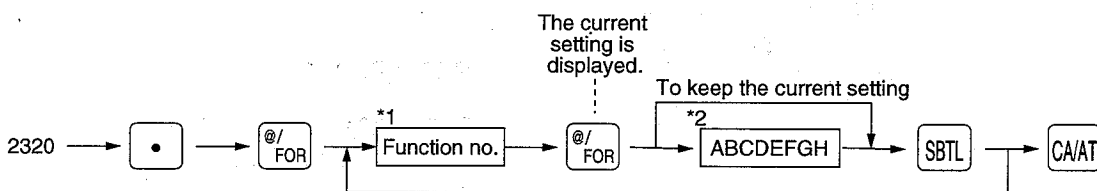
You can program each media key to or not to open the drawer.

Amount tendered compulsory

You may select amount tendered compulsory or optional for the CA/AT, CA2, CHK, and CHK2 keys.

You may select amount tendered compulsory or inhibited for the CH thru CH5 keys.

Procedure



*1: Function no.

61: For the CA/AT key

62: For the CA2 key

76: For the CH key

78: For the CH2 key

80: For the CH3 key

82: For the CH4 key

84: For the CH5 key

86: For the CHK key

87: For the CHK2 key

56: For the SRVC key

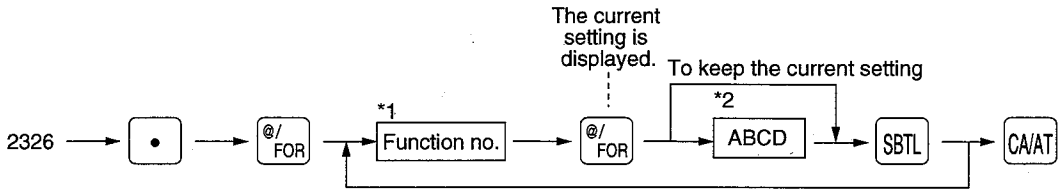
115: For the ES/TEND key

133: For the FINAL key

Tax delete PGM 2 2326

You can program each media key to delete tax (i.e. tax 1, tax 2, tax 3, tax 4) when it is pressed.

Procedure



*1: Function no.

- | | |
|------------------------------|-----------------------------|
| 61: For the CAVAT key | 82: For the CH4 key |
| 62: For the CA2 key | 84: For the CH5 key |
| 76: For the CH key | 86: For the CHK key |
| 78: For the CH2 key | 87: For the CHK2 key |
| 80: For the CH3 key | |

*2	Item:	To:	Enter:
A	Tax 4 calculation status	delete tax 4	1
		calculate tax 4	0
B	Tax 3 calculation status	delete tax 3	1
		calculate tax 3	0
C	Tax 2 calculation status	delete tax 2	1
		calculate tax 2	0
D	Tax 1 calculation status	delete tax 1	1
		calculate tax 1	0

Example

Programming the **CH3** key to delete tax 1

Key operation

2326 **.** **@/FOR**
 80 **@/FOR** 0001 **SBTL**
CAVAT

Print

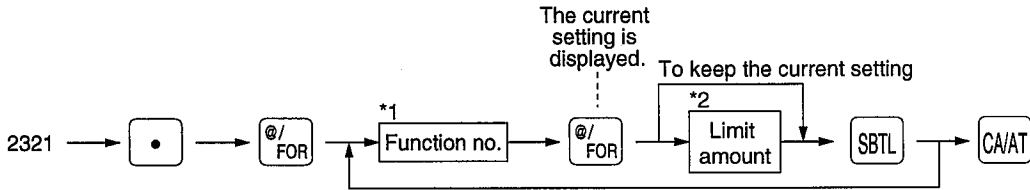
```
#2326 *PGM2*
F080 CHARGE3 L18
0001 00000001
```

A thru D

■ High amount lockout (HALO) for check change, check cashing, and cash in drawer PGM 2 **2321**

You can program the upper limit amounts for check change, check cashing, and cash in drawer.

Procedure



*1: Function no.

68: For check cashing

69: For check change

89: For cash in drawer (Sentinel)

*2: Limit amount

0 thru 999999.99

(Check change and check cashing)

0 thru 999999.99 (Cash in drawer)

Example

Setting the limit to \$99.99 for check cashing.

Key operation

2321 \cdot $\text{\textcircled{@/FOR}}$
 68 $\text{\textcircled{@/FOR}}$ 9999 $\text{\textcircled{SBTL}}$
 $\text{\textcircled{CA/AT}}$

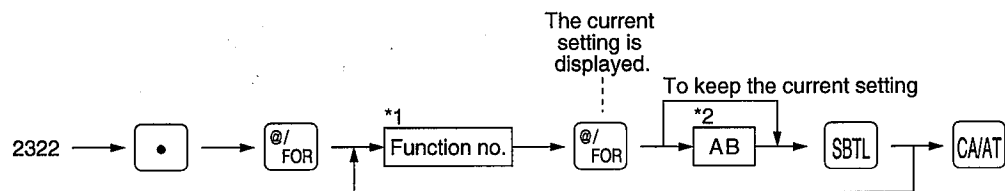
Print

```
#2321 *PGM2*
F068 CA/CHK
99.99 — HALO limit
```

■ High amount lockout (HALO) of entry for media keys PGM 2 **2322** **Direct**

The HALO limit is in effect for REG-mode operations but can be overridden in the MGR mode. The HALO limit is represented by two figures as follows:

Procedure



*1: Function no.

61: For the $\text{\textcircled{CA/AT}}$ key

62: For the $\text{\textcircled{CA2}}$ key

76: For the $\text{\textcircled{CH}}$ key

78: For the $\text{\textcircled{CH2}}$ key

80: For the $\text{\textcircled{CH3}}$ key

82: For the $\text{\textcircled{CH4}}$ key

84: For the $\text{\textcircled{CH5}}$ key

86: For the $\text{\textcircled{CHK}}$ key

87: For the $\text{\textcircled{CHK2}}$ key

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

A: Significant digit (1 through 9)

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

You can set up AB = 18 for no limitation.

ExampleSetting the HALO limit to \$1000.00 (15) for the **CH3** key**Key operation**

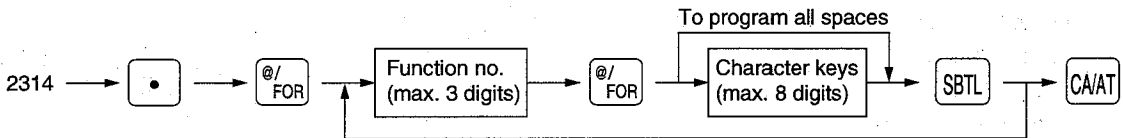
2322 **.** **@/ FOR**
 80 **@/ FOR** 15 **SBTL**
CAIAT

Print

```
#2322 *PGM2*
F080 CHARGE3      L15 — HALO limit
      0001 00000001
```

9 Programming of function text**Programming** **PGM 2** **2314**

You can program a maximum of 8 characters for each function key and other functions using the table on the following pages.

Procedure**Example**Programming VISA for **CH****Key operation**

76 **@/ FOR** VISA **(SPACE)** **(SPACE)** **(SPACE)** **(SPACE)** **@/ FOR**
SBTL
CAIAT

Print

```
#2314 *PGM2*
F076 VISA          L18
      0000 00000000
```

■ Characters of function keys

Function no.	Key or function	Default setting	Function no.	Key or function	Default setting
1	⊖ 1	(-)1	43	Vender coupon UPC	V. CP UPC
2	⊖ 2	(-)2	44	Item void	VOID
3	⊖ 3	(-)3	45	Subtotal void	SBTL VD
4	⊖ 4	(-)4	46	Manager void	MGR VD
5	%1	%1	47	Void mode	VOID
6	%2	%2	48	Refund	REFUND
7	%3	%3	49	Hash item void	HASH VD
8	%4	%4	50	Hash item refund	HASH RF
9	Net sales total	NET1	51	No sale	NO SALE
10	Net taxable 1 subtotal	TAX1 ST	52	Validation print counter	VP CNT
11	Gross tax 1 total	GRS TAX1	53	Bill (slip) counter	BILL CNT
12	Tax 1 total of refund entries	RFD TAX1	54	Drawer counter	DRW CNT
13	Net tax 1 total	TAX1	55	PBAL	*** PBAL
14	Exempt tax 1	TX1 EXPT	56	Service	SERVICE
15	Net taxable 2 subtotal	TAX2 ST	57	Deposit	DEPOSIT
16	Gross tax 2 total	GRS TAX2	58	Deposit refund	DPST RF
17	Tax 2 total of refund entries	RFD TAX2	59	Customer counter	TRANS CT
18	Net tax 2 total	TAX2	60	Sales total	NET 3
19	Exempt tax 2	TX2 EXPT	61	Cash	CASH
20	Net taxable 3 subtotal	TAX3 ST	62	Cash2	CASH2
21	Gross tax 3 total	GRS TAX3	63	Food stamp sales	FSSALE
22	Tax 3 total of refund entries	RFD TAX3	64	RA	*** RA
23	Net tax 3 total	TAX3	65	RA2	*** RA2
24	Exempt tax 3	TX3 EXPT	66	PO	*** PO
25	Net taxable 4 subtotal	TAX4 ST	67	PO2	*** PO2
26	Gross tax 4 total	GRS TAX4	68	Check cashing	CA/CHK
27	TAX4 total of refund entries	RFD TAX4	69	Check change	CHK/CG
28	Net tax 4 total	TAX4	70	Food stamp change	FS/CG
29	Exempt tax 4	TX4 EXPT	71	Currency conversion1	CONV 1
30	Gross manual tax total	GRS MTAX	72	Currency conversion2	CONV 2
31	Refund manual tax total	RFD MTAX	73	Currency conversion3	CONV 3
32	Net manual tax total	M-TAX	74	Currency conversion4	CONV 4
* 33	Exempt total from GST	GST EXPT	75	Food stamp in drawer	FS/ID
* 34	PST total	PST TTL	76	Gross charge1	CHARGE1
* 35	GST total	GST TTL	77	Refund charge1	CHARGE1-
36	FS1 forgive	FS TX1	78	Gross charge2	CHARGE2
37	FS2 forgive	FS TX2	79	Refund charge2	CHARGE2-
38	FS3 forgive	FS TX3	80	Gross charge3	CHARGE3
39	TAX total	TTL TAX	81	Refund charge3	CHARGE3-
40	Net	NET	82	Gross charge4	CHARGE4
41	Sales total including tax total	NET2	83	Refund charge4	CHARGE4-
42	Coupon-like PLU	CP PLU	84	Gross charge5	CHARGE5

Note

The items marked with " * " are for Canada only.

The function no. 90 "Exempt VAT" is only effective for the Canadian tax system (2 GST, VAT type).

Function no.	Key or function	Default setting
85	Refund charge5	CHARGE5-
86	Check	CHECK
87	Check2	CHECK2
88	Cash+check in drawer	CA+CK ID
89	Cash in drawer	****CID
*90	Exempt VAT	VAT EXPT
91	Sales average (Hourly report)	AVE.
92	Group 1	GROUP01
93	Group 2	GROUP02
94	Group 3	GROUP03
95	Group 4	GROUP04
96	Group 5	GROUP05
97	Group 6	GROUP06
98	Group 7	GROUP07
99	Group 8	GROUP08
100	Group 9	GROUP09
101	Price 1 for UPC	UPC LV-1
102	Price 2 for UPC	UPC LV-2
103	Price 3 for UPC	UPC LV-3
104	(+)Dept. total	*DEPT TL
105	(-)Dept. total	DEPT(-)
106	Hash (+)dept. total	*HASH TL
107	Hash (-)dept. total	HASH(-)
108	(+)Bottle return total	*BTTL TL
109	(-)Bottle return total	BTTL(-)
110	Subtotal	SUBTOTAL

Function no.	Key or function	Default setting
111	Merchandise subtotal	MDSE ST
112	Total	***TOTAL
113	Change	CHANGE
114	Food stamp subtotal	FS ST
115	Food stamp tender	FS TEND
116	Food stamp change	FS CG
117	Items	ITEMS
118	Copy receipt title	COPY
119	Department report title	DEPT
120	Group report title	GROUP
121	PLU report title	PLU
122	Category report title	CATEGORY
123	Transaction report title	TRANS.
124	Cash in drawer report title	CID
125	Cashier report title	CSR
126	Hourly report title	HOURLY
127	Daily report title	DAILY
128	Zero sales report title	ZERO SAL
129	UPC report title	UPC
130	Non-accessed UPC title	NO ACCES
131	PBLU report title	PBLU
132	Price change title	PR. CHNG
133	FINAL (for PGM)	FINAL
134	BALANCE	BALANCE
135	Slip print message	SLIP PR.
136	Ballance forward	BAL FWD

Note

The items marked with " * " are for Canada only.

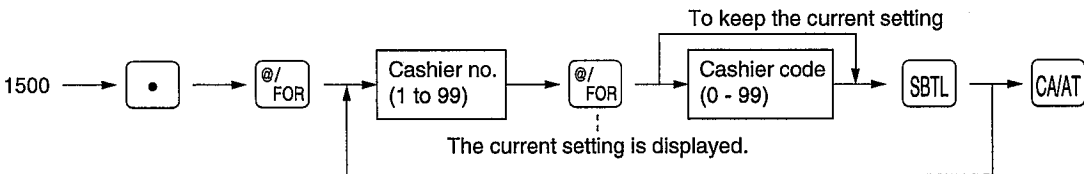
The function no. 90 "Exempt VAT" is only effective for the Canadian tax system (2 GST, VAT type).

10 Cashier programming

■ Cashier code PGM 1 PGM 2 1500

You can assign a cashier code to each cashier. (A maximum of 99 cashiers can be programmed.)
For more details, please contact your local dealer.

Procedure



Example

To program 11 for cashier no.1 and 14 for cashier no. 4.

Key operation

```

1500 . @/FOR
1 @/FOR 11 SBTL
4 @/FOR 14 SBTL
CA/AT
  
```

Print

```

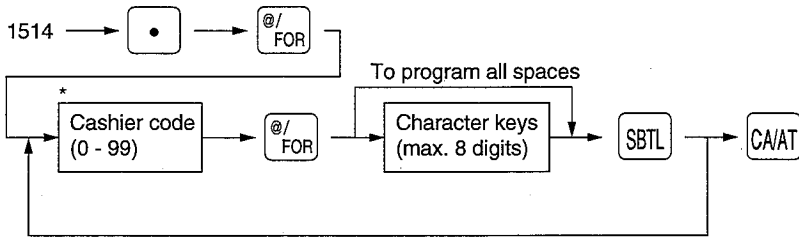
#1500 *PGM2*
01CSR#      11
             D1
04CSR#      14
             D1
  
```

— Cashier no.
— Cashier code

■ Cashier name PGM 1 PGM 2 1514

You can program a maximum of 8 characters (cashier name) for each cashier.

Procedure



*: A code you have programmed for the cashier by job code 1500

Example

To program "DICK" for cashier code 11 and "PETER" for cashier code 14

Key operation

```

1514 [.] [ @/FOR ]
11 [ @/FOR ] DICK [ SBTL ]
14 [ @/FOR ] PETER [ SBTL ]
           [ CA/VAT ]
    
```

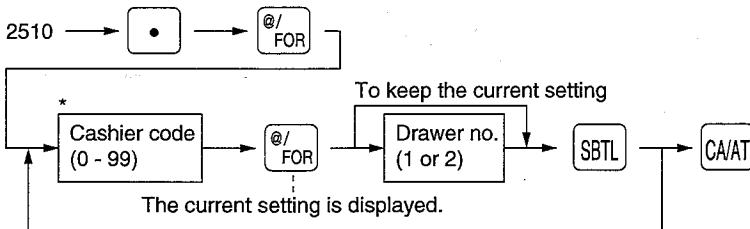
Print

```

#1514 *PGM2*
01CSR#           11
DICK              D1
04CSR#           14
PETER            D1
    
```

■ Assigning cashiers to drawers PGM 2 2510

Procedure



*: A code you have programmed for the cashier by job code 1500

Note

When you use no drawer, enter 0 for the drawer no. data.

Example

Assigning cashier code 11 to drawer no. 1

Key operation

```

2510 [.] [ @/FOR ]
11 [ @/FOR ] 1 [ SBTL ]
           [ CA/VAT ]
    
```

Print

```

#2510 *PGM2*
01CSR#           11
DICK              D1
    
```

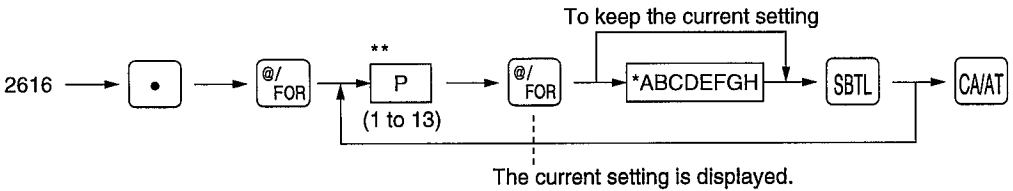
Drawer no.

11 Programming various functions

■ Programming for optional feature selection PGM 2 2616

Various controls for operations, reporting, etc. may be preset for your convenience. Please review each section to determine your desired settings.

Procedure



**P: 1
*

Item:	To:	Enter:
A	OP X/Z mode availability	allow the use of this mode
		disallow it
B	PO in REG-mode availability	allow the PO operation in REG-mode
		disallow it
C	Refund entry in the refund sales key availability	allow refund sales key entry in REG-mode
		disallow it
D	Refund key availability	allow the REG-mode refund entry
		disallow it
E	Direct void availability	allow the REG-mode direct void
		disallow it
F	Indirect void availability	allow the REG-mode indirect void
		disallow it
G	Subtotal void availability	allow the REG-mode subtotal void
		disallow it
H	Refund validation print compulsory/non-compulsory	select non-compulsory
		select compulsory

**P: 2

*

Item:	To:	Enter:	
A	First item direct void availability	allow the first item direct void	0
		disallow it	1
B	Always enter 0.	(Fixed position)	0
C	Always enter 0.	(Fixed position)	0
D	Number of items purchased printed	disallow it	0
		allow it	1
E	Time print availability	allow time printing	0
		disallow it	1
F	Journal print form	select detailed journal	0
		select summary journal	1
G	Item validation print availability	allow item validation printing	0
		disallow it	1
H	Coupon validation print compulsory/non-compulsory	select non-compulsory	0
		select compulsory	1

**P: 3

*

Item:	To:	Enter:	
A	UPC report zero suppression selection	select zero suppression	0
		select non-skip printing	1
B	Always enter 0.	(Fixed position)	0
C	Cashier report zero suppression selection	select zero suppression	0
		select non-skip printing	1
D	Transaction report zero suppression selection	select zero suppression	0
		select non-skip printing	1
E	Dept. report zero suppression selection	select zero suppression	0
		select non-skip printing	1
F	PLU report zero suppression selection	select zero suppression	0
		select non-skip printing	1
G	Hourly report zero suppression selection	select zero suppression	0
		select non-skip printing	1
H	Daily net report zero suppression selection	select zero suppression	0
		select non-skip printing	1

**P: 4 (ABCDEFGH: Not used)

**P: 5

*

Item:	To:	Enter:	
A to E	Always enter 0.	(Fixed position)	0
F	UPC price shift entry	Allow in MGR or REG mode	0
		Allow in MGR mode	1
G	UPC price shift system	Auto (Automatic return mode)	0
		Manual (Lock shift mode)	1
H	UPC price shift return timing (Auto mode)	by each item entry	0
		by one receipt	1

**P: 6 (ABCDEFGH: Not used)

**P: 7

*

Item:	To:	Enter:
A and B	Always enter 0. (Fixed position)	0
C	No sale in REG-mode availability allow the "No sale" operation in REG-mode	0
	disallow it	1
D	Finalization availability allow finalization in REG-mode when the subtotal amount is zero	0
	disallow it	1
E	Printing of item in PBLU transaction on the slip Yes	0
	No	1
F	Always enter 0. (Fixed position)	0
G	Always enter 0. (Fixed position)	0
H	Always enter 0. (Fixed position)	0

**P: 8

*

Item:	To:	Enter:
A to D	Always enter 0. (Fixed position)	0
E	Check cashing validation print compulsory/non-compulsory select non-compulsory	0
	select compulsory	1
F	RA validation print compulsory/non-compulsory select non-compulsory	0
	select compulsory	1
G	PO validation print compulsory/non-compulsory select non-compulsory	0
	select compulsory	1
H	Always enter 0. (Fixed position)	0

**P: 9

*

Item:	To:	Enter:
A and B	Always enter 0. (Fixed position)	0
C	Birthday print availability allow the printing of entered birthday	0
	disallow it	1
D	Always enter 0. (Fixed position)	0
E	Always enter 0. (Fixed position)	0
F	Always enter 0. (Fixed position)	0
G	Always enter 0. (Fixed position)	0
H	Footer graphic logo printing No	0
	Yes	1

**P: 10

*

Item:	To:	Enter:
A and B Always enter 0.	(Fixed position)	0
C Learning function for UPC entry	Yes	0
	No	1
D to H Always enter 0.	(Fixed position)	0

**P: 11 (ABCDEFGH: Not used)

**P: 12

*

Item:	To:	Enter:
A to G Always enter 0.	(Fixed position)	0
H Price change for UPC entry in REG mode	Enable	0
	Disable	1

**P: 13





*

Item:	To:	Enter:
A to C Always enter 0.	(Fixed position)	0
D Printing of price shift text on the receipt/journal	Yes	0
	No	1
E Always enter 0	(Fixed position)	0
F Treating the EAN8 code (200XXXXC/D)	Yes	0
	No	1
G Always enter 0	(Fixed position)	0
H Price entry after ISBN or ISSN	Compulsory	0
	Inhibited	1

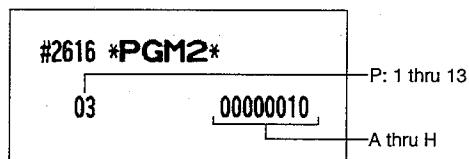
Example

Programming to select zero suppression for UPC report, cashier report, transaction report, dept. report, PLU report and daily net report, and to select non-skip printing for an hourly report.

Key operation

2616 . 
 3  00000010 


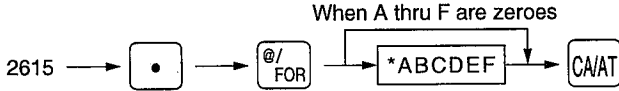
Print



■ Programming the parameter of the slip printer

PGM 2 2615

Procedure



- * AB: Initial slip feed line (0 to 64)
- CD: Slip print max. line no. (0 to 99)
- E: Validation printing counter (1 thru 9 times)
To inhibit validation printing, enter 0.
- F: Always enter 0. (Fixed position)

Example

Entering 1 to E and 0 to F.

Key operation

2615
10

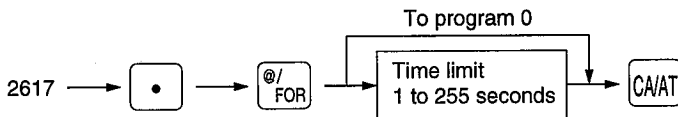
Print

```
#2615 *PGM2*
          00 00 1 0
```

■ Setting the time limit for THE TILL TIMER™ PGM 2 2617

The machine counts the number of times the drawer is left open for longer than a programmed time limit. The counter will be incremented by one each time a programmed time limit is reached. The time limit for THE TILL TIMER™ can be preset for 0 to 255 seconds. The count is printed on the general report and cashier report.

Procedure



Example

Setting the time limit as 30 (seconds).

Key operation

2617
30

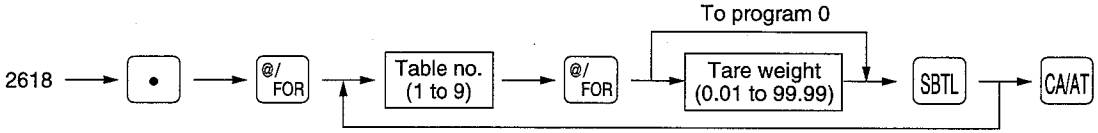
Print

```
#2617 *PGM2*
          030
```

Scale tare table PGM 2 2618

The register can be programmed with up to nine tare tables and allows different tares to be assigned to them (for auto scale entries).

Procedure



Example

To assign the tare weight 0.20 lbs to tare table no. 1

Key operation

2618 • ①/ FOR
 1 ①/ FOR 20 SBTL
 CAAT

Print

```

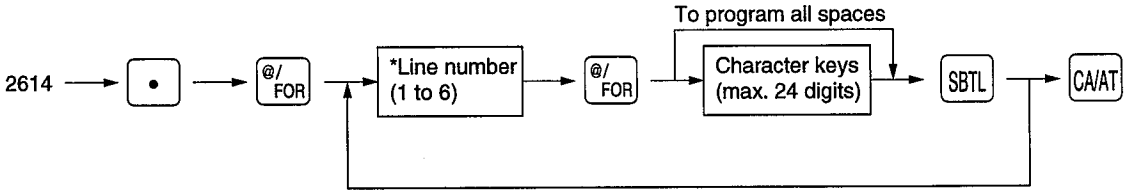
  #2618 *PGM2*
  1      0.20
  
```

Table no.
Tare weight

■ Programming of logo text messages PGM 2 2614

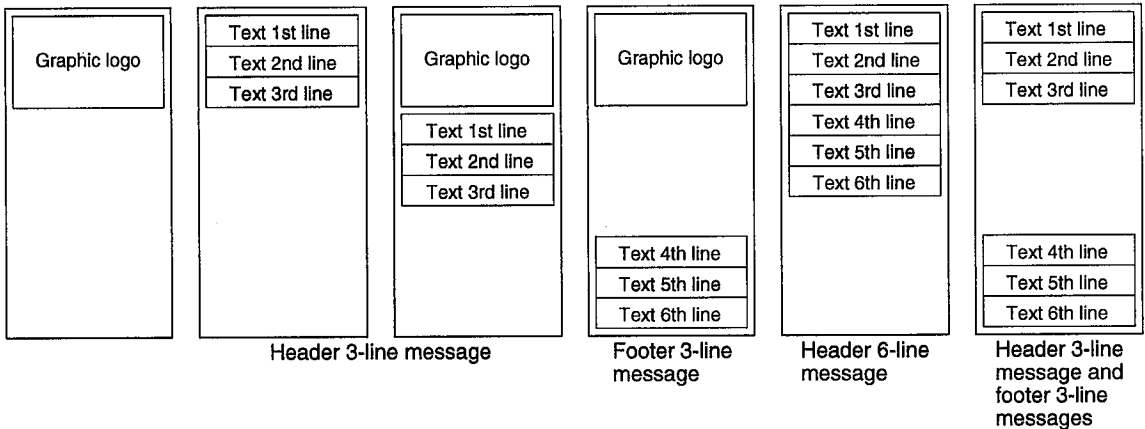
Your register can print programmed messages for customers on every receipt.

Procedure



- * "Header 3-line message" type: 1 to 3
- "Footer 3-line message" type : 4 to 6
- "Header 6-line message" type: 1 to 6
- "Header 3-line and footer 3-line message" type: 1 to 6 (1 to 3 as header, 4 to 6 as footer)

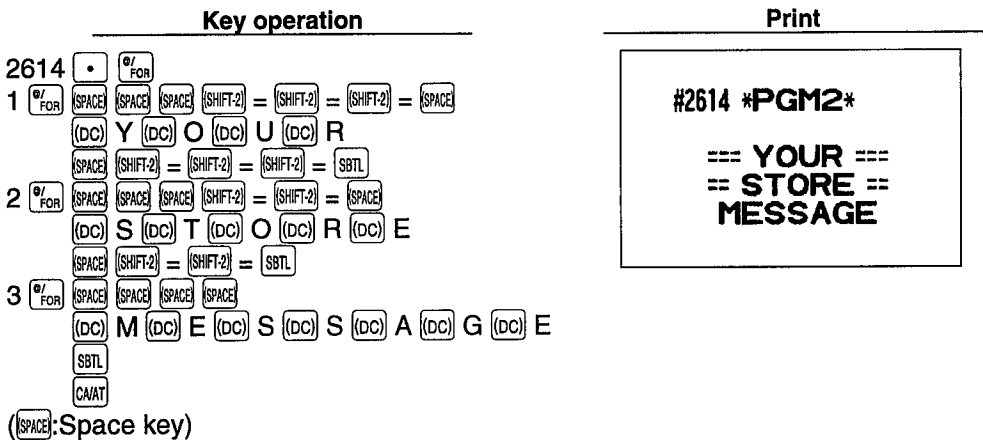
A maximum of 6 lines are available. The type of printing "header 3-line message" is available for the standard model. The line numbers you select are according to the four types of printing: "header 3-line message" type, "footer 3-line message" type, "header 6-line message" type and "header 3-line and footer 3-line message" type. If you want to change the type of printing, please consult your dealer.



Example

To program the following messages by using 3 lines:

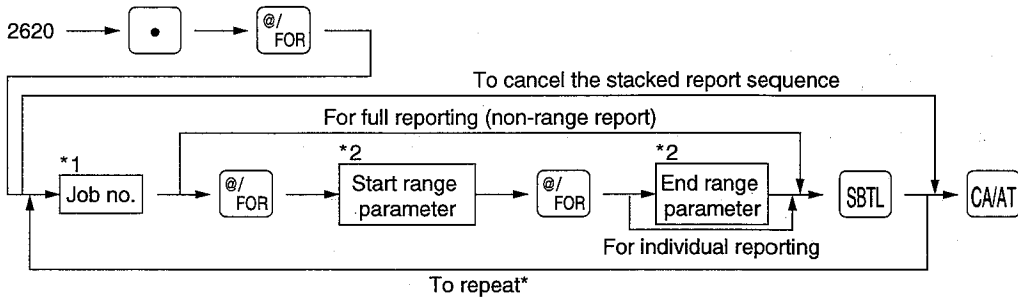
```
=== YOUR ===
== STORE ==
MESSAGE
```



■ Selection of X1/Z1 and X2/Z2 reports to be printed in the stacked report sequence PGM 2 2620

Your register is equipped with the stacked report printing function that enables multiple X/Z reports to be printed in sequence with only a single request, up to maximum of 11 reports*. This function continuously prints a maximum of 11 kinds of reports with a single operation.

Procedure



*: Maximum 70 steps are programmable. "1 step" means the memory size used for one no-range type job no. The range type job no. needs "8 steps".

Job code numbers to be used are as follows.

*1

*2

Job no.	Report	Available mode	Range parameter
00	General report		
07	UPC zero sales report	X1/X2 mode only	
09	UPC report (full)		
10	Full department report	X1/X2 mode only	
13	Full department group report	X1/X2 mode only	
20	PLU report		*3 Start PLU no./end PLU no. (1 thru 999999)
27	PLU zero sales	X1/X2 mode only	*3 Start PLU no./end PLU no. (1 thru 999999)
29	PLU price category report	X1/X2 mode only	*3 Start price amount/end price amount
30	Transaction report	X1/X2 mode only	
31	Cash in drawer report	X1/X2 mode only	
50	Full cashier report		
60	Hourly sales information	Range report is available only in the X1/X2 mode.	*3 Start time/end time (0 thru 2330)
70	Daily net report	X2/Z2 mode only	
80	PBLU report		*3 Start PBLU code/end PBLU code (1 thru 9999)

*3: Both range setting and full setting are allowed.

Note When Z of stacked report is initiated, X only reports will be skipped.

Example To print reports 10 and 13 as a stacked report.

Key operation

2620

Print

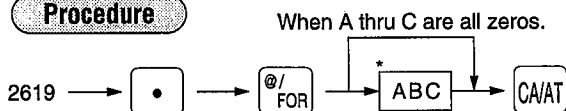
#2620 *PGM2*

10
13

■ Setting the time range for hourly reports PGM 2 2619

You can set the time range for an hourly report.

Procedure



*A: Time range

To set the time range to 30 minutes (in the 24-hour system), enter 0.

To set the time range to 60 minutes (in the 24-hour system), enter 1.

BC: Starting time (hour = 00 to 23)

Example

Setting the time range to 60 minutes with the starting time being set at 7:00

Key operation

```

    2619 • @/ FOR
           107 CAIAT
  
```

Print

```

    #2619 *PGM2*
                1 07
  
```

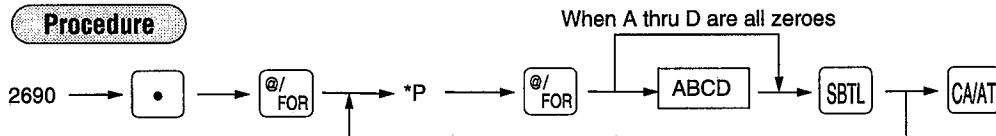
Note

To change this setting, an hourly Z report (# 160) must be taken.

■ RS-232C channel assignment PGM 2 2690

Your machine is equipped with two RS-232C interfaces. If you use the communication function, the scale, the barcode reader, the slip printer, the channel number of each RS-232C interface must be programmed by using the following procedure.

Procedure



*P: 1

Item:	To:	Enter:
A For the ON-LINE communication	Disable	0
	Enable (enter the channel no.): port 2	1
	Enable (enter the channel no.): port 1	8
B For sending the print data	Disable	0
	Enable (enter the channel no.): port 2	1
	Enable (enter the channel no.): port 1	8
C For connecting the scale	Disable	0
	Enable (enter the channel no.): port 2	1
	Enable (enter the channel no.): port 1	8
D Always enter 0.	(Fixed position)	0

*P: 2

Item:	To:	Enter:
A For connecting the barcord reader	Disable	0
	Enable (enter the channel no.): port 2	1
	Enable (enter the channel no.): port 1	8
B to D Always enter 0.	(Fixed position)	0






*P: 3

Item:	To:	Enter:
A Always enter 0.	(Fixed position)	0
B For connecting the slip printer	Disable	0
	Enable (enter the channel no.): port 2	1
	Enable (enter the channel no.): port 1	8
C and D Always enter 0.	(Fixed position)	0

Example

To disable the communication function, sending the print data, connecting the scale

Key operation

2690  
 1  
 

Print

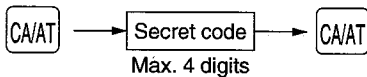
```
#2690 *PGM2*
1          0000
P
A thru D
```

Note Never enter any number other than 0, 1 and 8.

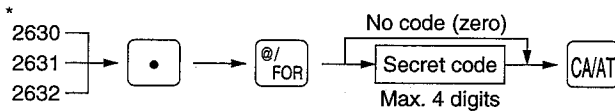
Secret codes to control access to PGM1 mode, X1/Z1 mode and X2/Z2 mode

PGM 2 2630 2631 2632

You must enter a secret code according to the following procedure before performing any PGM1-mode, X1/Z1-mode or X2/Z2-mode operation when a secret code has been set for that specific mode operation.

Operating**Procedure****Note**

Once a secret code is entered, it does not need to be entered again unless the mode switch setting is changed and any operation, such as a sales registration, reporting, or programming, is performed.




Programming**Procedure**

- * 2630 for the PGM1 mode
- 2631 for the X1/Z1 mode
- 2632 for the X2/Z2 mode

Example

Programming secret code 1234 for X1/Z1 mode

Key operation

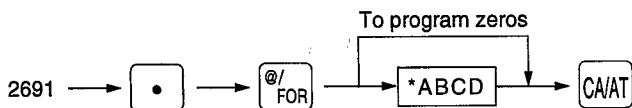
2631  
 1234 

Print

```
#2631 *PGM2*
1234
```

Barcode reader programming PGM 2 2691

Procedure



* Item:	Selection:	Entry:
A	Data bit	7 bits
		8 bits
B	Parity bit	Non parity
		Odd parity
		Even parity
C	Stop bit	1 bit
		2 bits
D	Transmission speed	19200 bps
		9600 bps
		4800 bps

Example

Key operation

2691
 1110

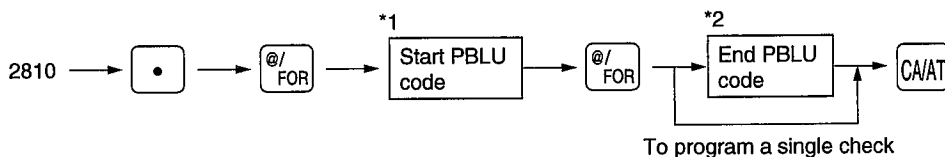
Print

```
#2691 *PGM2*
1110 —ABCD
```

PBLU code programming PGM 2 2810

You can program the range of available guest check codes. When you use this function, the PBLU file must be created.

Procedure



*1: 1 thru 9999 (free code)

*2: 1 thru 9999 (free code)

Example

To designate PBLU code 10 and 11 for use

Key operation

2810
 10 11

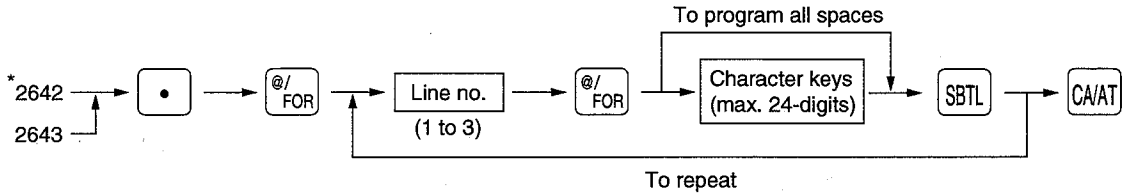
Print

```
#2810 *PGM2*
#2810 0010-0011
```


■ **Check validation message/Slip printer's logo message** PGM 2 2642 2643

- **Check validation message on a slip (Job# 2642)**
You can program a 3-line message for check validation printing on a slip.
Note: 1 line = 24 characters
- **Slip printer's logo messages (Job# 2643)**
You can program a 3-line logo message for the slip printer.
Note: 1 line = 24 characters

Procedure

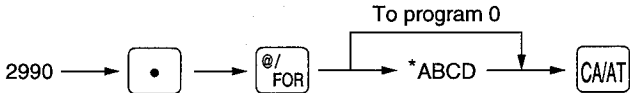


- * Job no.
2642: For check validation message on a slip
2643: For slip printer's logo messages

■ **Printer programming** PGM 2 2990

You can also program the machine for the printing density; the average is 50, and the larger number you set, you can get the higher density.
The standard model has been programmed to be auto cutter and "50" for the printing density.

Procedure

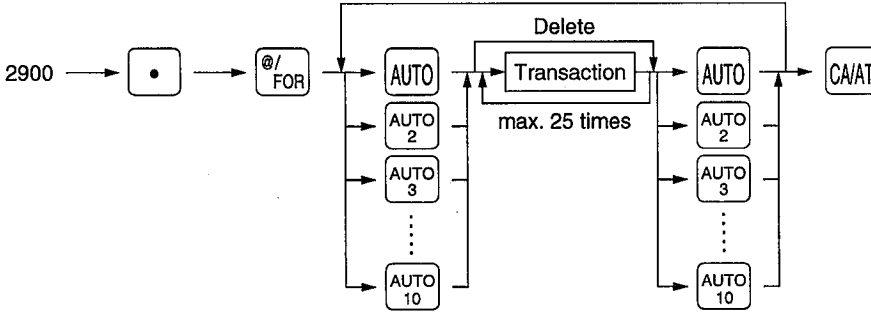


- * A: Always 1
B: Always 0
CD: Printing density (00 through 99) : 00=80%, 50=90%, 99=100%

■ Setting the AUTO key — Automatic sequencing key — X2/Z2 2900

If you program frequently performed transactions or report sequences for the AUTO keys, you can enter those transactions simply by pressing the corresponding AUTO keys in key operations. This programming can be done when your machine is in the X2/Z2 mode.

Procedure



Example

Programming for **AUTO** key and **AUTO₂** key as follows:
AUTO ; entering a \$1.50 item (PLU no. 2) and a \$1.00 item (dept. 3)
AUTO₂ ; selling a \$5.00 -programmed- item (dept. 2) for cash

Key operation	Print
2900 • @/FOR	#2900 *PGM2*
AUTO	#01
AUTO1 → 2 PLU/SUB 100 3	2 KEY
setting	PLU/SB
	1 KEY
	0 KEY
	0 KEY
	D03
AUTO2 → 2 CA/AT	#02
setting	D02
	CA/AT

Note

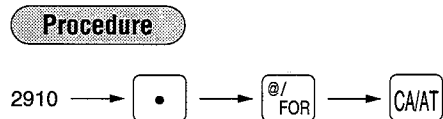
When the AUTO key has been programmed to execute a report job function etc., the mode switch must be in the appropriate position.

12 Activating and deactivating the TRAINING mode

You will use the TRAINING mode if you need to train someone in register operations without any change in register's sales memory. Reports are not available. When the training is completed, cancel this mode and thus put your machine back into the normal mode of operation.

TRAINING-mode activation/deactivation PGM 2 2910 2911

For activation

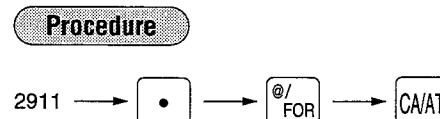


Print

```

#2910 *PGM2*
TRAINING ..... START
  
```

For deactivation



Print

```

#2911 *PGM2*
TRAINING ..... END
  
```

TRAINING-mode operations

- Practice entries are allowed only when the mode switch is in the REG position or the MGR position.
- In order to identify training entries from actual ones, your register prints a " * TRAINING * " on the receipt and journal.
- These entries do not affect any totalizers or counters except the training GT.
- The consecutive number is increased by one each time an operation is completed.

Sample printout of TRAINING-mode entries

```

08/26/01 7:33PM 11
123456 #1139 DICK

  *TRAINING*
STEAK          $10.00
DPT. 03       $5.00

***TOTAL      $15.00
CASH          $20.00
CHANGE        $5.00
  
```

13 Reading stored programs

Your machine allows you to read every program stored in the PGM1 and PGM2 modes.

Program details and procedures for their reading

Program for:	Mode switch position	Job code no.	Procedure	Related PGM1/ PGM2 job code nos.
1 Departments	PGM2 or PGM1	1100		1110, 2110, 2111, 2112, 2114, 2116, 2180
2 PLUs/ subdepartments	PGM2 or PGM1	1200		1200, 1210, 1211, 2210, 2211, 2214, 2230, 2231, 2232, 2280
3 Key nos. for departments and PLUs	PGM2	2119		2119, 2219
4 Link PLUs	PGM2	2220		2220
5 UPCs 1	PGM1 or PGM2	1000		1000, 1010, 1011, 2010, 2011, 2014, 2017, 2080
6 UPCs 2	PGM2	2025		2025, 2029
7 UPC link	PGM2	2030		2030
8 Cashiers	PGM2 or PGM1	1500		1500, 1514, 2510
9 Mix and match table	PGM2	2020		2020
10 Function 1	PGM2 or PGM1	1300		1310, 2311, 2312, 2313, 2314, 2315, 2316, 2320, 2321, 2322, 2326
11 Function 2	PGM2	2600		2614, 2615, 2616, 2617, 2618, 2619, 2620, 2630, 2631, 2632, 2690, 2691

Program for:		Mode switch position	Job code no.	Procedure	Related PGM1/ PGM2 job code nos.
12	Tax tables and rates	PGM2	2700	→ 2700 → @/FOR → CAIAT	2710, 2711, 2715
13	Slip text	PGM2	2640	→ 2640 → @/FOR → CAIAT	2642, 2643
14	PBLU code	PGM2	2800	→ 2800 → @/FOR → CAIAT	2810
15	Auto keys	PGM2	2900	→ 2900 → @/FOR → CAIAT	2900
16	Thermal printing	PGM2	2990	→ 2990 → @/FOR → CAIAT	2990

Sample printouts

1. Reading of programmed items for departments (Reading in the PGM1 and PGM2 modes)

08/26/01 7:39PM
123456 #1141

Job code no. #1100 *PGM2* Mode switch position*

Range 01-20

Dept. no.	Item label	Unit price	Group no.	Age limitation
D01	STEAK	10.00	G01	
0000003	A00	L95		
D02	DPT. 02	0.00	G02	
0000001	A18	L17		
D03	DPT. 03	0.00	G00	
0000003	A00	L17		
D04	FT1	0.00	G00	
DPT. 04			G00	
0000001	A00	L95		

Food stamp and tax status

Function programming 0 0 0 0 0 0 3

Type of unit price entry (SIF/SICS/Normal)

Type (SIF/SICS/Normal)

Minus department

D09	DPT. 09	0.00	G00	
0000001	A00	L17		
D10	DPT. 10	-0.00	G00	
0000001	A00	L17		
D11		0.00		

D20	DPT. 20	0.00	G00	
0000001	A00	L17		

2. Reading of programmed items for PLUs/subdepartments (Reading in the PGM1 and PGM2 modes)

08/26/01 7:50PM
123456 #1143

#1200 *PGM2* Mode switch position*

Range 000001-000025

PLU no.	Tax status	Unit price	Associated dept. no.	Base qty	Mode parameter
P000001 (02)	T1	1.25			
MILK					
003	A00				
P000002 (02)	F	/12			
002		0.00			
PL000002					0 0 2
002	A18				
P000003 (01)		/00			
002		0.00			
PL000003					
002	A00				
P000004 (01)		/00			
002		0.00			
PL000004					
002	A00				
P000005 (01)		/00			
002		0.00			

Link PLU

P000020 (03)	T1	/00			
003	A00	0.00			
PL000020					
003	A00				
P000021 (01) L		/00			
002		0.00			
PL000021					
002	A00				
P000025 (01)		/00			
002		0.00			
PL000025					
002	A00				

* When you take this report in the PGM1 mode, the PGM2 indication is replaced by a "PGM1".

3. Reading of programmed key nos. for departments and PLUs
(Reading in the PGM2 mode)

08/26/01 7:55PM 123456 #1144	
#2119 *PGM2*	
001	D01
002	D02
003	D03
004	D04
005	D05
006	D06
007	D07
008	D08
009	D09
010	D10
011	D11
012	D12
013	D13
014	D14
015	D15
016	P000001
017	D17
018	D18
019	D19
020	D20
021	----
022	----
023	----
024	----
025	----
026	----
027	----
028	----
029	----
030	----
031	----
032	----
033	----
034	----
035	----
036	----
037	----
038	----
039	----
040	----
041	----
066	----
067	----
068	----

4. Reading of programmed items for link PLUs
(Reading in the PGM2 mode)

08/26/01 7:58PM 123456 #1146	
#2220 *PGM2*	
000001-999999	Range
P000021	Leading PLU no.
L.P000025	Linked PLU no.
P000026	
P000027	

5. Reading of programmed items for UPCs - 1
(Reading in the PGM1 and PGM2 modes)

08/26/01 7:59PM 123456 #1147	
#1000 *PGM2*	
5012345678900#	UPC code
* T1	Delete method
APPLE	Item label
000	A00
012345678905#	UPC code
000	A00
323456789108#	UPC code
000	A18
(02)/05	Type L: Linked with PLUs (space): Normal
0.00	Unit price
(01)/00	Tax status
0.00	Base q'ty
M00	Associated dept. no.
M01	
M02	

* When you take this report in the PGM1 mode, the PGM2 indication is replaced by a "PGM1".

Note The UPC codes are printed out in the sequence shown below.

EAN-13
EAN-8
UPC-A
UPC-E

6. Reading of programmed items for UPCs - 2
(Reading in the PGM2 mode)

```

08/26/01 8:00PM
123456 #1149

#2025 *PGM2*

#2025
20      5 4 0 0 1 2
02      4 5 0 0 1 2
#2029      60
    
```

Non-PLU format setting
Delete period

8. Reading of programmed items for cashiers
(Reading in the PGM1 and PGM2 modes)

```

08/26/01 8:02PM
123456 #1153

#1500 *PGM2*

Cashier no. 01CSR#      11
Cashier name DICK      D1
02CSR#      02
03CSR#      03
04CSR#      03
PETER      14
           D1
    
```

Mode switch position*
Cashier code
Drawer no.

* When you take this report in the PGM1 mode, the PGM2 indication is replaced by a "PGM1".

7. Reading of programmed items for UPC link
(Reading in the PGM2 mode)

```

08/26/01 8:01PM
123456 #1151

#2030 *PGM2*

5012345678900#L P000030
                P000031
                P000032
    
```

UPC code
Linked PLU no.

9. Reading of programmed mix and match table
(Reading in the PGM2 mode)

```

08/26/01 8:08PM
123456 #1158

#2020 *PGM2*

Table no. #01 /03 1.00
          #02 /05 10.00
          #03 /03 6.00
          #04 /06 3.00
          #05 /02 5.00
    
```

Mode switch position*
Adjust amount
Matching q'ty for discount

10. Reading of programmed items for functions - 1
(Reading in the PGM1 and PGM2 modes)

```

08/26/01 8:23PM
123456 #1161

#1300 *PGM2*
F001 (-) 1
I          -10.00
           L13
F002 (-) 2
S          -0.00
           L17
F005 %1
I          10.25%
           T1   L 15.00%
F006 %2
S          -0.00%
           L100.00%

F009 NET 1
F010 TAX1 ST
F011 GRS TAX1
F012 RFD TAX1
F013 TAX1
F014 TX1 EXPT
F015 TAX2 ST
F016 GRS TAX2
F017 RFD TAX2
F018 TAX2
F019 TX2 EXPT
F020 TAX3 ST
F021 GRS TAX3
F022 RFD TAX3
F023 TAX3
F024 TX3 EXPT
F025 TAX4 ST
F026 GRS TAX4
F027 RFD TAX4
F028 TAX4
F029 TX4 EXPT
F030 GRS MTAX
F031 RFD MTAX
F032 M-TAX          L17
F036 FS TX1
F037 FS TX2
F038 FS TX3
F039 TTL TAX
F040 NET
F041 NET2
F042 CP PLU
    
```

Mode switch position*

```

F043 V. CP UPC
F044 VOID
F045 SBTL VD
F046 MGR VD
F047 VOID
F048 REFUND
F049 HASH VD
F050 HASH RF
F051 NO SALE
F052 VP CNT
F053 BILL CNT
F054 DRW CNT
F055 ***PBAL
F056 SERVICE          00000000

F057 DEPOSIT
F058 DPST RF
F059 TRANS CT
F060 NET3
F061 CASH          L18
           0000 00000000
F062 CASH2          L18
           0000 00000000
F063 FSSALE
F064 ***RA          L18
F066 ***PO          L18
F068 CA/CHK          99.99

F069 CHK/CG          999999.99

F070 FS/CG
F071 CONV 1          1.3250

F075 FS/ID
F076 VISA          L18
           0000 00000000
F077 CHARGE1-
F078 CHARGE2          L15
           0000 00000000
F079 CHARGE2-
F080 CHARGE3          L15
           0001 00000001
F081 CHARGE3-
F086 CHECK          L18
           0000 00000000
F088 CA+CK ID
F089 ***CID          9999999.99

F091 AVE.
F092 GROUP01
F093 GROUP02
F094 GROUP03
    
```

* When you take this report in the PGM1 mode, the PGM2 indication is replaced by a "PGM1".

To be continued on the next page

11. Reading of programmed items for functions - 2
(Reading in the PGM2 mode)

```

F095 GROUP04
F096 GROUP05
F097 GROUP06
F098 GROUP07
F099 GROUP08
F100 GROUP09
F101 UPC LV-1
F104 *DEPT TL
F105 DEPT (-)
F106 *HASH TL
F107 HASH (-)
F108 *BTTL TL
F109 BTTL (-)
F110 SUBTOTAL
F111 MDSE ST
F112 ***TOTAL
F113 CHANGE
F114 FS ST
F115 FS TEND
                                00000000

F116 FS CG
F117 ITEMS
F118 COPY
F119 DEPT
F120 GROUP
F121 PLU
F122 CATEGORY
F123 TRANS.
F124 CID
F125 CSR
F126 HOURLY
F127 DAILY
F128 ZERO SAL
F129 UPC
F130 NO ACCES
F131 PBLU
F132 PR. CHNG
F133 FINAL
                                00000000

F134 BALANCE
F135 SLIP PR.
F136 BAL FWD
    
```

```

08/26/01 8:28PM
123456 #1165

#2600 *PGM2*

#2614 _____ Logo text message
      === YOUR ===
      == STORE ==
      MESSAGE

#2615          00 00 1 0
#2616          _____ Parameter of the
01              00000000 slip printer
02              00000000
03              00000101
04              00000000
05              00000000
06              00000000
07              00000000
08              00000000
09              00000000
10              00000000
11              00000000
12              00000000
13              00000000
#2617          030 Till timer
#2618
1              0.20
2              0.00
3              0.00
4              0.00
5              0.00
6              0.00
7              0.00
8              0.00
9              0.00
#2619          1 07 Hourly report format/start
#2620          hour
              10
              13 Stacked report
#2630          0000
#2631          1234 Secret code
#2632          0000
#2690
1              0000
2              0000
3              0800 RS-232C channel data
#2691          1110 Barcode reader
              programming
    
```


READING (X) AND RESETTING (Z) OF SALES TOTALS

- Use the reading function (X) when you need to take a reading of sales information entered since 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 thru GT3, reset count, and consecutive number.

1 Summary of reading (X) and resetting (Z) reports and the key operations to obtain the reports

X1 and Z1 reports: Daily sales reports

X2 and Z2 reports: Periodic (monthly) consolidation reports

Item	Mode switch position		Job code	Key operation
	X1/Z1	X2/Z2		
Flash report: (Only display) To clear the display, press the CL key.	X1	—	—	Dept. key (1 to 50) : Department total amount Dept. no. → DEPT #
				@/FOR key: Amount of cash in drawer
				SBTL key: Sales total
Full reading and resetting	X1, Z1	X1, Z1	100	
		X2, Z2	200	
Individual cashier reading and resetting	X1, Z1	X1, Z1	151	
		X2, Z2	251	
	<OP X/Z> X, Z			51
Full cashier reading and resetting	X1, Z1	X1, Z1	150	
		X2, Z2	250	
Reading and resetting of hourly sales information	X1		160	<p>Reading: 160 (For individual time range)</p> <p>* Enter the time in the military time (24-hour) system.</p>
	X1, Z1			<p>Reading and Resetting: 160</p>

Item	Mode switch position		Job code	Key operation
	X1/Z1	X2/Z2		
Full department reading	X1	X1	110	110 → @/FOR → CAIAT 210 → @/FOR → CAIAT
		X2	210	
Individual group reading	X1	X1	112	112 → @/FOR → Group no. → CAIAT 212 → @/FOR → CAIAT
		X2	212	
Full group reading	X1	X1	113	113 → @/FOR → CAIAT 213 → @/FOR → CAIAT
		X2	213	
Reading and resetting of sales information for a range of PLUs/subdepartments	X1, Z1	X1, Z1	120	
		X2, Z2	220	
Reading and resetting of sales information of PLUs/subdepartments associated with an individual department	X1, Z1	X1, Z1	121	
		X2, Z2	221	
Reading of information on PLUs/subdepartments whose sales amounts are zeros	X1	X1	127	 (with an individual department)
		X2	227	
Reading of sales information for the price amount range of PLUs/sub department	X1	X1	129	
		X2	229	
Transaction reading	X1	X1	130	130 → @/FOR → CAIAT 230 → @/FOR → CAIAT
		X2	230	
Cash in drawer reading	X1	X1	131	131 → @/FOR → CAIAT 231 → @/FOR → CAIAT
		X2	231	
Reading and resetting of sales information for UPCs	X1, Z1	X1, Z1	109	
		X2, Z2	209	
Reading and resetting of sales information for UPCs associated with an individual department	X1, Z1	X1, Z1	101	
		X2, Z2	201	

Item	Mode switch position		Job code	Key operation
	X1/Z1	X2/Z2		
Reading of UPCs whose sales amounts are zeros	X1	X1	107	<p>(with an individual department)</p>
		X2	207	
Reading and resetting of PBLU file	X1, Z1	X1, Z1	180	
Reading and resetting of PBLU file by individual cashier	X1, Z1	X1, Z1	181	
Reading and resetting of a stacked report	X1, Z1	X1, Z1	190	<p>When Z of stacked report is initiated, X only reports will be skipped.</p>
		X2, Z2	290	
Reading and resetting of the daily net totals		X2, Z2	270	

Non-accessed UPC deleting

Item	Mode switch position		Job code	Key operation
	X1/Z1	X2/Z2		
Reading of non-accessed UPCs	X1		105	
Deleting of non-accessed UPCs	Z1		105	

Note

When you execute the job #105 in Z1 mode, not only the sales data, but also the UPC code(s) (the related data files) themselves will be deleted.

2 Daily sales totals

Full reading and resetting of sales totals

You can take X and Z reports in the X1/Z1 mode. The use of the decimal (\square) key determines when the report will actually reset the totals.

• Sample X report

• Sample Z report

Sample X report		Sample Z report	
08/27/01 6:11PM 11	123456 #1473 DICK	08/27/01 8:37PM 11	123456 #1724 DICK
#100 *X1*		#100 *Z1*	
GT1 \$00000012742.87		Z1 0001	
GT2 \$00000013155.51		GT1 \$00000042715.55	
GT3 -00000000412.64		GT2 \$00000043170.65	
TR \$00000000015.01		GT3 -00000000455.10	
		TR \$00000000053.61	
DEPT			
D01 22.000Q			
DPT. 01 \$182.91			
4.68%			
D02 58.000Q			
D20 15.000Q			
DPT. 20 \$51.24			
1.31%			
*DEPT TL 402.000Q			
\$3911.98			
100.00%			
D11 3.000Q			
DPT. 11 -6.66			
DEPT (-) 3.000Q			
-6.66			
D12 9.000Q			
DPT. 12 \$79.20			
*HASH TL 9.000Q			
\$79.20			
D13 2.000Q			
DPT. 13 -5.10			
HASH (-) 2.000Q			
-5.10			

To be continued on the next page

(-) 3	2Q	⊖3 counter and total
	-5.00	
(-) 4	1Q	⊖4 counter and total
	-2.10	
%3	2Q	Percent 3 counter and total
	-8.76	
%4	2Q	Percent 4 counter and total
	-9.51	
CP PLU	1Q	Coupon-like PLU counter and total
	-1.75	
V. CP UPC	3Q	Vendor coupon UPC counter and total
	-1.35	
VOID	6Q	Item void counter and total
	\$27.05	
SBTL VD	1Q	Subtotal void counter and total
	\$94.40	
NGR VD	3Q	Manager item void counter and total
	\$19.44	
VOID	1Q	Void-mode transaction counter and total
	\$19.44	
REFUND	14Q	Refund counter and total
	\$155.73	
HASH VD	1Q	Hash item void counter and total
	\$6.20	
HASH RF	1Q	Hash item refund counter and total
	\$5.20	
NO SALE	5Q	No-sale (exchange) counter
BILL CNT	0Q	Bill counter
DRW CNT	6Q	Drawer counter
***PBAL	3Q	PBAL counter
SERVICE	5Q	Service counter
TRANS CT	41Q	Customer counter
NET3	\$4021.17	Sales total (including hash dept. total)
CASH	19Q	Cash counter and total
	\$2470.52	
CASH2	2Q	Cash 2 counter and total
	\$265.42	
FSSALE	3Q	Sales for food stamp counter and total
	\$226.30	
***RA	1Q	Received on account counter and total
	\$50.00	
***RA2	1Q	Received on account 2 counter and total
	\$60.00	

***PO	1Q	Paid out counter and total
	\$30.00	
***PO2	1Q	Paid out 2 counter and total
	\$20.00	
CA/CHK	2Q	Check cashing counter and total
	\$87.00	
CHK/CG	\$0.00	Cash change total for check and charge 1 - 5 tendering
FS/CG	\$1.70	
CONV 1	200.00	Cash change total for food stamp tendering
CONV 2	400.00	Currency conversion 1 total (by programmed rate)
CONV 3	700.00	
CONV 4	500.00	Currency conversion 4 total (by manual rate)
FS/ID	\$228.00	
CHARGE1	2Q	Food stamp in drawer total
	\$146.20	
CHARGE1-	1Q	Charge 1 sales and tendering counter
	-92.43	
CHARGE2	2Q	Charge 1 in drawer
	\$178.70	
CHARGE2-	1Q	Charge 1 refunds counter
	-1.27	
CHARGE3	2Q	Charge 1 refunds total
	\$132.50	
CHARGE3-	1Q	
	-5.41	
CHARGE4	2Q	
	\$77.50	
CHARGE4-	1Q	
	-3.36	
CHARGE5	2Q	
	\$167.10	
CHARGE5-	1Q	
	-2.63	
CHECK	1Q	Check sale and tendering counter
	\$200.95	
CHECK2	1Q	Check in drawer
	\$248.40	
CA+CK ID	\$1863.84	Cash + check in drawer
***CID	\$1414.49	Cash in drawer
DEPOSIT	1Q	Deposit counter and total
	\$50.00	
DPST RF	1Q	Deposit refund counter and total
	-30.00	

■ Cashier reading and resetting

Using this function, you can take X and Z reports for individual cashiers or all cashiers.

Individual cashier reading and resetting

Note

The OP X/Z-mode reading and resetting is allowed only when your machine has been programmed for "OP X/Z mode available" in the PGM2 mode.

• Sample X report

08/27/01 6:36PM 11	
123456 #1485 DICK	
#151 *X1*	
* CSR *	
01CSR#1 1	DICK
NET1	\$12678.56
V. CP UPC	4Q
	-1.80
TRANS CT	175Q
NET3	\$12816.97
***RA	2Q
	\$98.00
***RA2	1Q
	\$60.00
***PO	2Q
	\$60.00
***PO2	1Q
	\$20.00
REFUND	18Q
	\$190.13
VOID	24Q
	\$105.81
MGR VD	6Q
	\$26.69
VOID	3Q
	\$26.69
(-) 1	5Q
	-5.00
(-) 2	5Q
	-7.11

Cashier no.
Cashier name
Sales total
Vender coupon UPC counter and total
Customer counter

• Sample Z report

08/27/01 8:39PM 11	
123456 #1725 DICK	
#151 *Z1*	
* CSR *	
	Z 0001

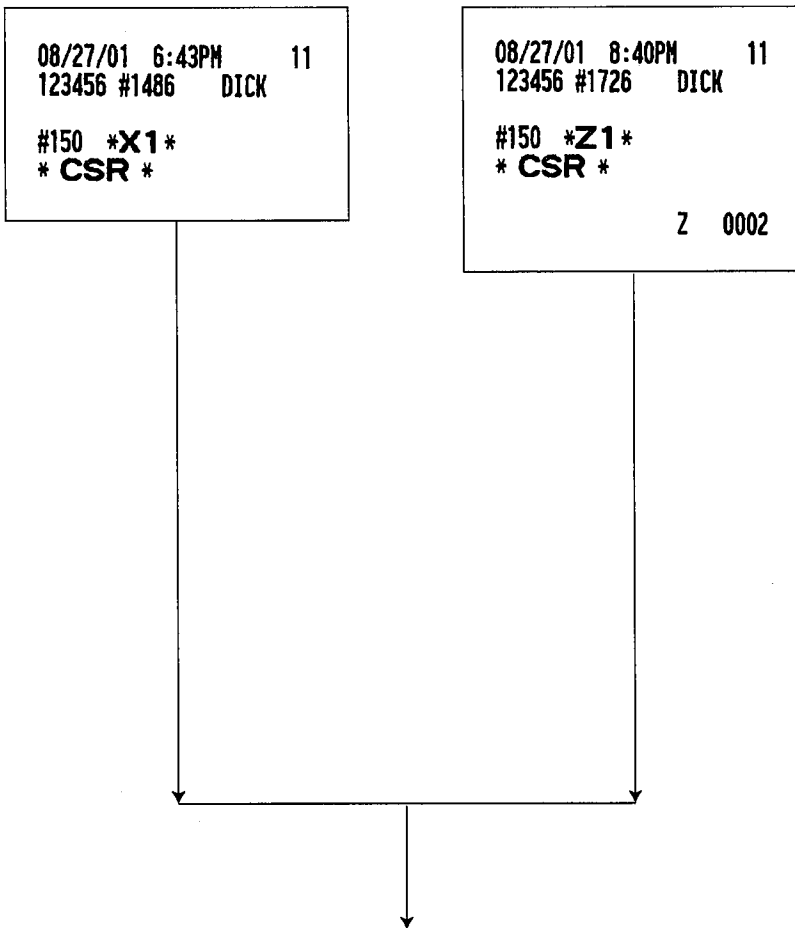
The subsequent printout occurs in the same format as in the sample X report.

CHARGE1	6Q	\$316.20
CHARGE1-	1Q	-92.43
CHARGE2	2Q	\$178.70
CHARGE2-	1Q	-1.27
CHARGE3	2Q	\$132.50
CHARGE3-	1Q	-5.41
CHARGE4	2Q	\$77.50
CHARGE4-	1Q	-3.36
CHARGE5	2Q	\$167.10
CHARGE5-	1Q	-2.63
CHECK	5Q	\$360.10
CHECK2	1Q	\$248.40
CA+CK ID		\$10269.76
****CID		\$9661.26

%4	2Q	-9.51
NO SALE	7Q	536Q
DRW CNT		379.50
CONV 1		400.00
CONV 2		700.00
CONV 3		600.00
CONV 4		\$252.00
FS/ID		146Q
CASH		\$10854.51
CASH2	3Q	\$377.82

* When you take these reports in the OP X/Z mode, the X report shows an "OP X" and the Z report shows an "OP Z".

Full cashier reading and resetting



The subsequent printout occurs in the same format as in the sample report shown in the previous page: and sales data for cashiers print in this sequence.

■ Reading and resetting of hourly sales information

You can take X and Z reports for sales totals and transaction (customer) counters for 48 half hours, or 24 hours. If both quantity and amount are zero, their print is skipped.

• Sample X report

08/27/01 6:43PM	11
123456 #1488 DICK	
#160 *X1*	
* HOURLY *	
9:00AM	19Q
	\$970.26
AVE.	\$51.07
9:30AM	21Q
	\$1194.69
AVE.	\$56.89
SUBTOTAL	40Q
	\$2164.95
10:00AM	19Q
	\$925.37
AVE.	\$48.70
10:30AM	33Q
	\$1554.85
AVE.	\$47.12
SUBTOTAL	52Q
	\$2480.22

• Sample Z report

08/27/01 8:41PM	11
123456 #1727 DICK	
#160 *Z1*	
* HOURLY *	
	Z1 0001

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

5:00PM	46Q
	\$4909.15
AVE.	\$106.72
5:30PM	43Q
	\$3312.73
AVE.	\$77.04
SUBTOTAL	89Q
	\$8221.88
6:00PM	30Q
	\$2581.65
AVE.	\$86.06
6:30PM	25Q
	\$2121.00
AVE.	\$84.84
SUBTOTAL	55Q
	\$4702.65

— Customer counter
 — Sales total
 — Average sales amount per customer
 (sales total ÷ customer counter)

■ Full department reading

08/27/01 6:46PM	11
123456 #1493	DICK
#110 *X1*	
DEPT	
D01	37.000Q
DPT. 01	\$837.27
	2.70%
D02	133.000Q
DPT. 02	\$4549.03
	14.69%
D03	124.000Q
DPT. 03	\$3119.53
	10.07%

Sales q'ty and amount

Ratio of dept. 1 sales amount to "+" real dept. total

D20	15.000Q
DPT. 20	\$51.24
	0.17%
*DEPT TL	767.000Q
	\$30964.71
	100.00%

D11	3.000Q
DPT. 11	-6.66
DEPT (-)	3.000Q
	-6.66

D12	9.000Q
DPT. 12	\$79.20
*HASH TL	9.000Q
	\$79.20

D13	2.000Q
DPT. 13	-5.10
HASH (-)	2.000Q
	-5.10

D14	4.000Q
DPT. 14	\$6.30
*BTTL TL	4.000Q
	\$6.30

D15	5.000Q
DPT. 15	-5.05
BTTL (-)	5.000Q
	-5.05

■ Individual group reading

08/27/01 6:51PM	11
123456 #1498	DICK
#112 *X1*	
* GROUP *	
D01	37.000Q
DPT. 01	\$837.27
D02	133.000Q
DPT. 02	\$4549.03
D04	17.000Q
DPT. 04	\$16.90
D09	224.000Q
DPT. 09	\$19416.10
D10	20.000Q
DPT. 10	\$104.00
GROUP01	431.000Q
	\$24923.30

Group 1 total

■ Full group reading

08/27/01 6:53PM	11
123456 #1502	DICK
#113 *X1*	
* GROUP *	
GROUP01	187.000Q
	\$5403.20
GROUP02	171.000Q
	\$3966.28
GROUP03	58.000Q
	\$1047.69

Group 1 total

GROUP08	23.000Q
	\$58.01
GROUP09	52.000Q
	\$251.68

■ Reading and resetting of sales information for a range of PLUs/subdepartments

This function provides you with X and Z reports for sales information of a certain range of PLUs/subdepartments. You designate the start and end PLU/subdepartment number of the range. Of course, the range may represent all of the PLUs/subdepartments in your register.

• Sample X report

08/27/01 7:05PM 11		
123456 #1524 DICK		
#120 *X1*		
* PLU *		
	000001-000020	Range
PLU no.	P000001	33.000Q
Item label	PL000001	\$43.68
	P000002	31.000Q
	PL000002	\$77.12
	P000003	49.000Q
	PL000003	\$130.31
	P000004	30.000Q
	PL000004	\$218.69
	P000005	38.000Q
	PL000005	\$131.24
		Sales qty and amount
	P000019	22.000Q
	PL000019	\$64.99
	P000020	24.000Q
	PL000020	\$222.21
	***TOTAL	571.813Q
		\$2541.81
		Range sum

• Sample Z report

08/27/01 8:42PM 11	
123456 #1728 DICK	
#120 *Z1*	
* PLU *	
Z	0001

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

■ Reading of sales information on PLUs/subdepartments associated with an individual department

• Sample X report

08/27/01 7:12PM 11		
123456 #1531 DICK		
#121 *X1*		
* PLU *		
DPT.01	DO1	Associate dept. no. Sales q'ty and amount
P000003	49.000Q	
PL000003	\$130.31	
P000051	2.000Q	
PL000051	\$5.70	
P000058	8.250Q	
PL000058	\$24.75	
P000080	1.000Q	
PL000080	\$7.50	
***TOTAL	60.250Q	
	\$168.26	

• Sample Z report

08/27/01 8:44PM 11	
123456 #1729 DICK	
#121 *Z1*	
* PLU *	

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

■ Reading of sales information on PLUs/subdepartments whose sales amounts are zeros

08/27/01 7:14PM 11		
123456 #1533 DICK		
#127 *X1*		
* PLU *		
ZERO SAL		
P000022		PLU number
PL000022		
P000023		Item label
PL000023		
P000024		
PL000024		

■ Reading of sales information for the price amount range of PLUs/subdepartments

08/27/01 7:15PM 11			
123456 #1535 DICK			
#129 *X1*			
CATEGORY			
	1.00 -	20.00	Price amount range
P000025		3.000Q	
PL000025		\$1009.99	Sales q'ty and amount
P000026		2.000Q	
PL000026		\$1001.99	
P000027		2.000Q	
PL000027		\$1007.99	

Transaction reading

```

08/27/01 7:18PM 11
123456 #1538 DICK

#130 *X1*
* TRANS. *
    
```



In this report the same transaction data as those printed when full reading is taken are printed.

Cash in drawer reading

You can take full cashier X reports for cash in drawer.

```

08/27/01 7:19PM 11
123456 #1543 DICK

#131 *X1*
* CID *

01CSR#1 1 DICK
TRANS CT 516Q
NET3 $41057.05
****CID $37901.34

02CSR#02
TRANS CT 3Q
NET3 $183.10
****CID $122.30

***TOTAL
TRANS CT 525Q
NET3 $42317.29
****CID $38715.58
    
```

- Cashier no.
- Cashier name
- Customer counter
- Sales total
- Cash in drawer

■ Reading and resetting of sales information for UPCs

• Sample X report

08/27/01 7:37PM 11		
123456 #1559 DICK		
#109 *X1*		
* UPC *		
UPC code	5012345678900#	15.000Q
Item label	APPLE	\$37.50
	5023456789102#	8.000Q
	MILK-A	\$60.00
		Sales q'ty
		Sales amount
	323210987658#	6.000Q
	PARTS-D	\$4.50
	***TOTAL	49.000Q
		\$230.30

• Sample Z report

08/27/01 8:45PM 11	
123456 #1730 DICK	
#109 *Z1*	
* UPC *	

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

Note

The UPC codes are printed out in the sequence shown below.

EAN-13
EAN-8
UPC-A
UPC-E

■ Reading and resetting of sales information for UPCs associated with an individual department

• Sample X report

08/27/01 7:51PM 11		
123456 #1576 DICK		
#101 *X1*		
* UPC *		
DPT. 01	DO1	Associated dept. no.
5045678912304#	4.000Q	Sales qty and amount
STEAK	\$35.00	
5087654321106#	4.000Q	
ORANGE	\$24.00	
5089123456708#	9.000Q	
GRAPE	\$46.80	
323210987658#	6.000Q	
PARTS-D	\$4.50	
***TOTAL	23.000Q	
	\$110.30	

• Sample Z report

08/27/01 8:46PM 11	
123456 #1731 DICK	
#101 *Z1*	
* UPC *	
DPT. 01	DO1

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

■ Reading of UPCs whose sales amounts are zeros

08/27/01 7:52PM 11	
123456 #1577 DICK	
#107 *X1*	
* UPC *	
ZERO SAL	
5099887654302#	
STEAK-B	
012345678905#	
PARTS-F	
311111111111#	
PARTS-A	
322222222221#	
PARTS-B	
323456789108#	
PARTS-E	
355555555551#	
PARTS-C	

■ Reading of UPCs whose sales amounts are zeros (by associated department)

08/27/01 7:52PM 11		
123456 #1578 DICK		
#107 *X1*		
* UPC *		
ZERO SAL		
DPT. 01	DO1	Associated dept. no.
5099887654302#		
STEAK-B		
012345678905#		
PARTS-F		
323456789108#		
PARTS-E		

■ Reading and resetting of PBLU file

• Sample X report

08/27/01 8:01PM 11		Report no.
123456 #1598 DICK		Read symbol
#180 *X1*		PBLU code
PBLU		C/D (Check Digit: If it is used.)
	0001-9999	Range
0001# 11		Cashier code
***PBAL \$32.20		Balance amount
0002# 11		
***PBAL \$8.80		
0003# 14		
***PBAL \$52.20		
0004# 11		T: This PBLU code is entered in the training mode. (V: Void mode)
***PBAL \$38.60		
0005# 14		
***PBAL \$97.81		
0006V 11		
***PBAL \$37.80		
1111# 11		
***PBAL \$54.25		
***TOTAL		} Total
***PBAL \$283.06		

• Sample Z report

08/27/01 8:49PM 11	
123456 #1733 DICK	
#180 *Z1*	
PBLU	
	Z1 0002

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

■ Reading and resetting of PBLU file by individual cashier

• Sample X report

08/27/01 8:02PM 14		Report no.
123456 #1601 PETER		Read symbol
#181 *X1*		PBLU code
PBLU		Cashier no./code/name
04CSR#14 PETER		PBLU code
0003#		
***PBAL \$52.20		Balance amount
0005#		
***PBAL \$97.81		
***TOTAL		} Total
***PBAL \$150.01		

• Sample Z report

08/27/01 8:50PM 14	
123456 #1734 PETER	
#181 *Z1*	
PBLU	
	Z1 0003

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

■ Reading and resetting of a stacked report

You can print multiple X1/Z1 reports in sequence at a time.

In this case, you need to program in advance what X1/Z1 reports should be printed.

Note

The following job code numbers alone can be used for stacked report printing.

Job code number: 100, 107, 109, 110, 113, 120, 127, 129, 130, 131, 150, 160, 180

Refer to "Selection of X1/Z1 and X2/Z2 reports to be printed in the stacked report sequence" for details.

■ Deleting of non-accessed UPCs

• Sample X report (Reading)

	09/02/01 10:35PM	11
	123456 #3730	DICK
	#105 *X1*	
	* UPC *	
	NO ACCES	
UPC code	5089123456708#	0.000Q
Item label	GRAPE	\$0.00
	Z2	10.000Q
		\$10.00

Periodic sales*

• Sample Z report (Deleting)

	09/02/01 10:37PM	11
	123456 #3735	DICK
	#105 *Z1*	
	* UPC *	
	NO ACCES	

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

*: When there is any sales data of the UPC for #209 report, the data is printed here.

When you delete the UPC in Z1 mode under the this situation, the data for #209 is also deleted.

3 Periodic consolidation

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

■ Overview

The periodic reading or resetting reports are the same in format as those in the X1/Z1 report for daily total except job code no. (#2xx) and mode indication ("X2" or "Z2".)

• Sample X report

```
08/27/01 9:21PM 11
123456 #1754 DICK
#200 *Z2* -----
```

Read symbol

• Sample Z report

```
08/28/01 10:13PM 11
123456 #2632 DICK
#200 *Z2* -----
                                Z1 0015
                                Z2 0002
GT1 $00000042983.57
GT2 $00000043451.81
GT3 -00000000468.24
TR  $00000000053.61
```

Reset symbol
Reset counter of daily total
Reset counter of periodic consolidation
Grand total

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

■ Reading and resetting of the daily net totals

10/31/01 11:15PM	11
123456 #8739	DICK
#270 *X2*	
* DAILY *	
10/01	98Q
	\$62714.83
10/02	70Q
	\$54240.77
10/03	101Q
	\$62522.52
10/04	155Q
	\$71526.16
10/05	167Q
	\$61239.06
10/28	123Q
	\$75236.32
10/29	139Q
	\$65381.54
10/30	113Q
	\$74153.28
10/31	106Q
	\$62936.44
***TOTAL	1247Q
	\$886247.30

10/31/01 11:20PM	11
123456 #8740	DICK
#270 *Z2*	
* DAILY *	
	Z2 0002

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

■ Reading and resetting of a stacked report

You can print multiple X2/Z2 reports in sequence at a time.

In this case, you need to program in advance what X2/Z2 reports should be printed.

Note

The following job code numbers alone can be used for stacked report printing.

Job code number: 200, 207, 209, 210, 213, 220, 227, 229, 230, 231, 250, 270

Refer to "Selection of X1/Z1 and X2/Z2 reports to be printed in the stacked report sequence" for details.

OPERATOR MAINTENANCE

1 In case of power failure

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

- When power failure is encountered in register idle state or during an entry, the machine returned to the normal state of operation after power recovery.
- When power failure is encountered during a printing cycle, the register prints "======" and then carries out the correct printing procedure after power recovery. (See the sample print.)

08/28/01 8:28PM 01	
123456 #1174 DICK	
DPT. 02	\$21.00
NPT 05	\$36.00

DPT. 05	\$36.00
CASH	\$57.00

2 In case of printer error

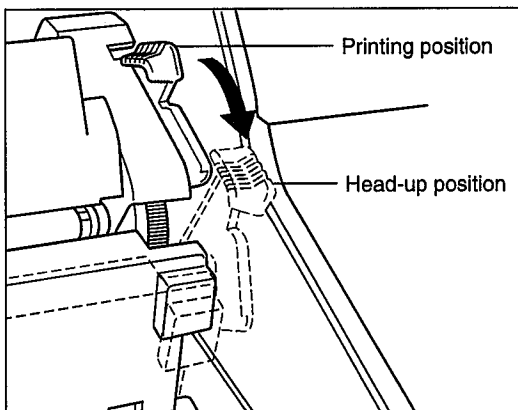
If the printer runs out of paper, the printer will stall, "PPPPPPPPPP" will appear on the display, and the register will start to continuously produce an intermittent beeping tone. Key entries will not be accepted. Referring to "5. Installing and removing the paper roll" in this chapter, install a new roll paper in the proper position, then press the [CL] key. The printer will print the power failure symbol and resume printing.

If the print head comes up, the printer stalls, "H" will appear on the very left of the display, and the register will start to continuously produce an intermittent beeping tone. Key entries will not be accepted. Bring back the print head to the correct position, then press the [CL] key. The printer will print the power failure symbol and resume printing.

3 Thermal printing

Your register prints by means of thermal printing. The print head applies heat to thermal paper which is chemically treated to change color when heated to a certain level. This creates the printed text.

■ Cautions in handling the printer



- If you are not going to use the register for an extended period of time, pull the print head release lever toward you so that the print head is set apart from the plate.

- Avoid the following environments:
Excessively dusty and humid places
Excessive direct sunlight
Iron powder (A permanent magnet and electromagnet are used in this machine.)
- Use the print head release lever only when necessary.
- Never pull the paper when it is in contact with the print head. First release the head with the print head release lever, and then remove the paper.
- Never touch the surface of the print head.
- Never touch around the print head and the motor during printing or before they have had sufficient time to cool.

■ Cautions in handling the recording paper (thermal paper)

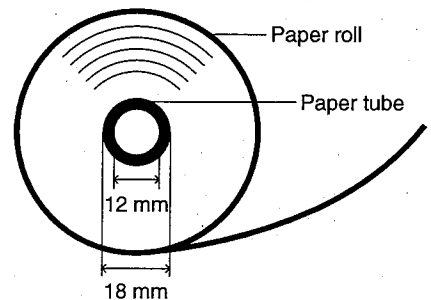
- Use only the paper specified by SHARP.
- Do not unpack the thermal paper until you are ready to use it.
- Avoid excessive heat. The paper will color at around 70°C.
- Avoid dusty and humid places for storage. Avoid direct sunlight.
- The printed text on the paper can discolor under the following conditions:
Exposure to high humidity and temperature
Prolonged 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.

4 Paper roll near-end sensing function (only for the journal paper) <option>

When the journal paper roll comes near the end or is not loaded, the machine senses this condition and sounds an alarm, displaying the error code "E04". At this time, clear the alarm with the key and replace the paper roll as soon as possible. The following entry can be made after clearing the alarm. However, since this function works each time one transaction is completed, the alarm sound will be emitted again as the following transaction is completed unless the paper roll is replaced.

If you want to use this function, consult your dealer.

- The sensing position depends upon the size of the paper tube.
Therefore, it is advisable to use paper rolls - whose paper tube is 18 mm in O.D. and 12 mm in I.D. - specified by SHARP.
- If sensing occurs too early or late, contact your dealer.



5 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:	1.75 ± 0.02 in. (44.5 ± 0.5 mm)
Max. outside diameter:	3.15 in. (80 mm)
Quality:	Thermal paper
Paper tube:	0.71 in. (18 mm)

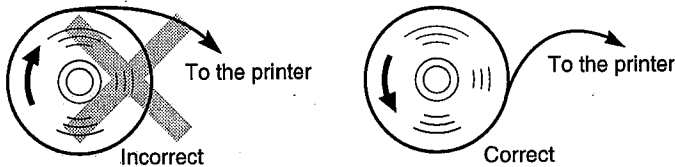
- Be sure to set paper roll(s) prior to using your machine, otherwise it may cause a malfunction.

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

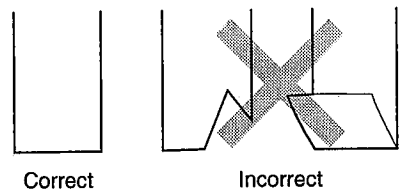
Note

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)

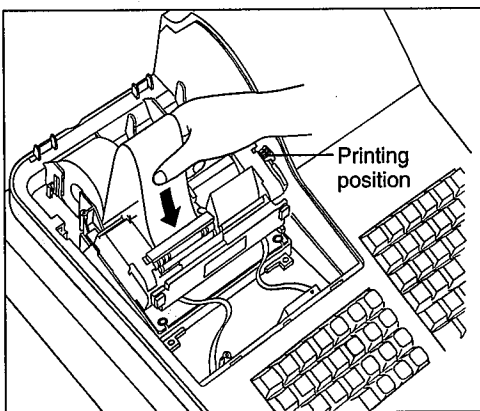


(How to cut the paper end)



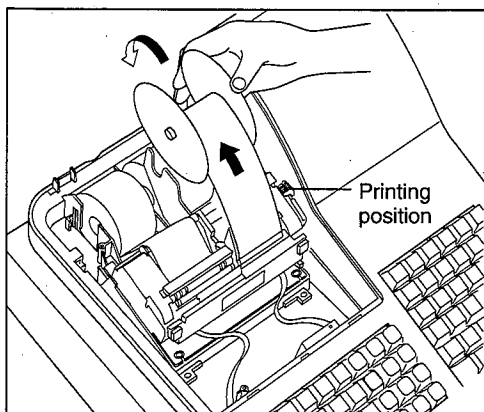
■ Installing the paper roll


Installing the receipt paper roll



1. Turn the mode switch to the "REG" position with the AC cord connected.
2. Remove the printer cover.
3. Check that the print head release lever is in its printing position.
4. Set the paper correctly as illustrated above in the receipt side of the printer.
5. Insert the end of the paper into the paper chute as shown on the left. It will automatically be fed through the printer.
6. Cut off the excess paper that comes out of the printer with the manual cutter.
7. Replace the printer cover.

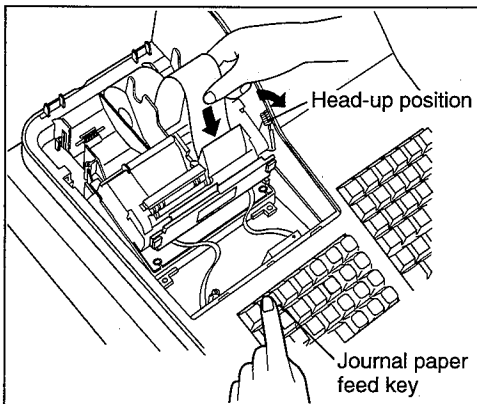
Installing the journal paper roll





1. Turn the mode switch to the "REG" position with the AC cord connected.
2. Remove the printer cover.
3. Check that the print head release lever is in its printing position.
4. Set the paper correctly as illustrated on the previous page in the journal side of the printer.
5. Insert the end of the paper into the paper chute as shown on the left. It will automatically be fed through the printer.
6. Insert the end of the paper into the slit in the paper take-up spool. (Press the  key to feed more paper through if required.)
7. Wind the paper two or three turns around the spool shaft.
8. Set the spool on the bearing.
9. Replace the printer cover.

Note

- When it is difficult to insert paper into the paper chute, try inserting it again by following the steps described below.



1. Cut off the end of paper in a single straight cut.
2. Pull the print head release lever toward you to lift up the print head.
3. Insert the end of paper into the paper chute, while pressing the corresponding paper feed key ( key or  key).
4. When the end of paper comes out of the printer, release the feed key and return the print head release lever to its original position.
5. Press the feed key to feed more paper.

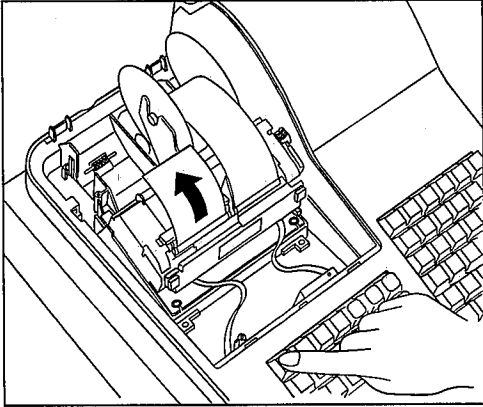
In case of inserting the journal paper roll


- When you want to manually install a new roll of paper while your machine is turned off, follow the steps shown below:
 1. Pull the print head release lever toward you to lift up the print head.
 2. Correctly place the new paper roll into the receipt/journal paper roll location.
 3. Insert the paper end into the paper chute until it comes out of the printer.
 4. Cut or roll the paper onto the take-up spool as described for automatic installation.
 5. Return the print head release lever to its original position.

■ Removing the 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.

Removing the receipt paper roll

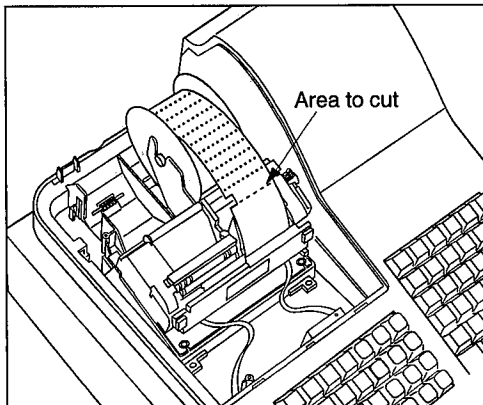



1. Remove the printer cover.
2. Cut the paper behind the printer and near the paper roll.
3. Press the  key until the paper remaining in the printer comes out completely.
4. Remove the paper roll from the back of the printer.


Note

Do not pull the paper through the printer.

Removing the journal paper roll

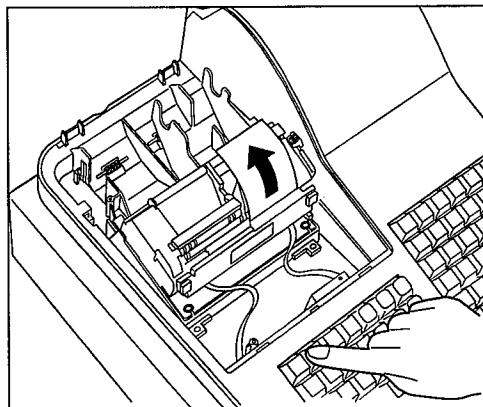


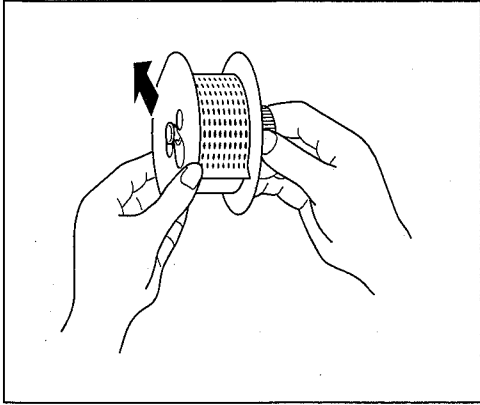
1. Remove the printer cover.
2. Press the  key to advance the journal paper until its printed part is out of the way.
3. Cut the paper and remove the take-up spool.

4. Cut the paper behind the printer and near the paper roll.
5. Press the  key until the paper remaining in the printer comes out completely.
6. Remove the paper roll from the back of the printer.

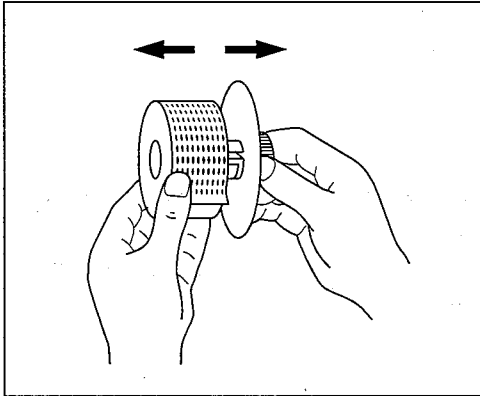
Note

Do not pull the paper through the printer.





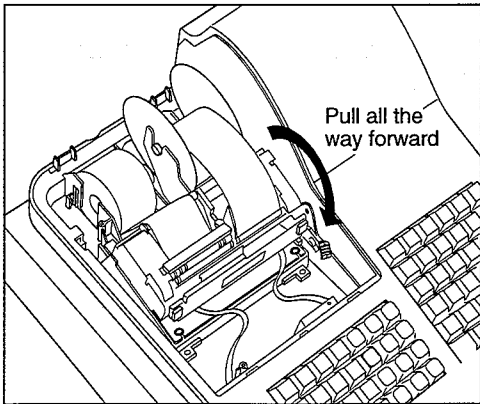
7. Remove the outer side of the take-up spool as shown on the left.



8. Remove the printed journal roll from the take-up spool.

■ Removing a paper jam

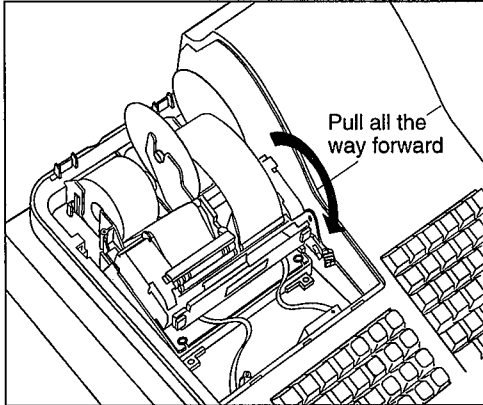
Precaution: Be very careful with the manual cutter to avoid cutting yourself. Never touch the print head immediately after printing, because the head may still be hot.



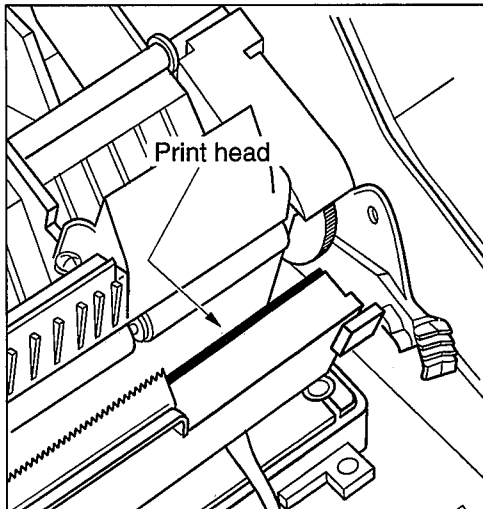
1. Remove the printer cover.
2. Pull the print head release lever all the way forward (after it stops at one position, continue pulling forward until it stops again and cannot be pulled forward any further).
3. Remove the paper jam. Check for and remove any shreds of paper that may remain in the printer.
4. Reset the paper roll correctly by following the steps in "Installing the paper roll".
5. Return the print head release lever to its original position.
6. Replace the printer cover.

6 Cleaning the print head

When the printed text is getting dark or faint, paper dust may be stuck to the print head. Clean the print head as follows:



1. Turn the mode switch to the "OFF" position and remove the AC power.
2. Remove the printer cover.
3. Pull the print head release lever all the way forward (after it stops at one position, continue pulling forward until it stops again and cannot be pulled forward any further).



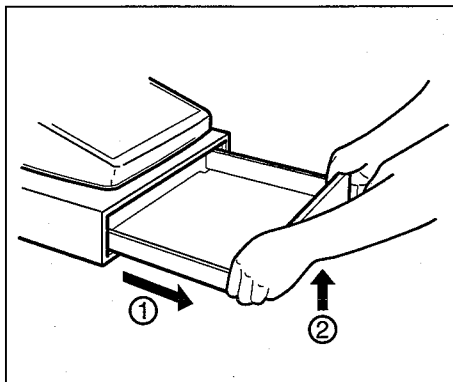
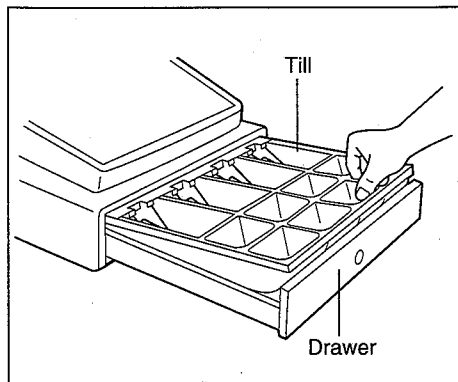
4. Clean the print head with a soft rag moist with ethyl alcohol or isopropyl alcohol.
5. Return the print head release lever to its original position immediately after cleaning.
6. Replace the printer cover.

Precautions:

Never touch the print head with a tool or anything hard as it may damage the head.

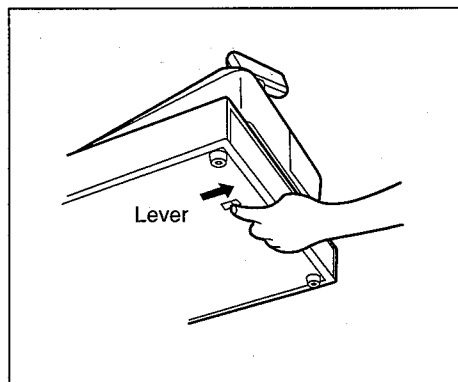
7 Removing the till and the drawer

The till in the register is removable. After closing your business for the day, remove the till from the drawer and keep the drawer open. To remove the drawer, pull it forward fully with the till removed, and remove it by lifting it up.



8 Opening the drawer by hand

The drawer automatically opens normally. 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.



9 Before calling for service

The malfunctions shown in the left-hand column below, labelled "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
(1) The display won't be illuminated even when the mode switch is turned to any other position than "OFF".	<ul style="list-style-type: none"> • Is power supplied to the electrical outlet? • Is the power cord plug out or loosely connected to the electrical outlet?
(2) The display is illuminated, but the whole machine refuses registrations.	<ul style="list-style-type: none"> • Is a cashier code assigned to the register? • Is the mode switch set properly at the "REG" position?
(3) No receipt is issued.	<ul style="list-style-type: none"> • Is the receipt paper roll properly installed? • Is there a paper jam? • Is the receipt function in the "OFF" status? • Is the print head release lever at the printing position?
(4) No journal paper is taken up.	<ul style="list-style-type: none"> • Is the take-up spool installed on the bearing properly? • Is there a paper jam?
(5) Printing is unusual.	<ul style="list-style-type: none"> • Is the print head release lever at the printing position? • Is the paper roll properly installed?

■ Error code table

When the following error codes are displayed, press the **[CL]** key and take a proper action according to the table below.

Error code	Error status	Action
E01	Registration error	Make a correct key entry.
E02	Misoperation error	Make a correct key entry.
E03	Undefined code is entered.	Enter a correct code, or declare it by the programming.
E04	Journal paper is nearly empty.	Replace a journal paper roll with a new one.
E05	Secret code error	Enter a correct secret code.
E07	Memory is full.	Expand the file within a capacity of memory.
E08	Insert slip paper.	Insert slip paper.
E09	Invalid cashier code is entered.	Enter a correct cashier code.
E11	Compulsory depression of the [SBTL] key for direct finalization	Press the [SBTL] key and continue the operation.
E12	Compulsory tendering	Make a tendering operation.
E13	Compulsory of PBLU entry	Make a PBLU entry.
E16	Check digit error	Enter a correct code.
E31	Compulsory non-add code entry	Enter a non-add code.
E32	No entry of your cashier code	Make a cashier code entry.
E33	The current cashier code should not be changed.	Change a cashier after finalizing the transaction.
E34	Overflow limitation error	Make a registration within a limit of entry.
E35	The open price entry is inhibited.	Make a preset price entry.
E36	The preset price entry is inhibited.	Make an open price entry.
E37	The direct finalization is inhibited.	Make a tendering operation.
E38	Read error of scale	
E67	Registration buffer is full.	
E76	The drawer is still opened.	Close the drawer.
E77	Price shift error	
E79	Reading of undefined vendor coupon UPC	
E94	Age verification error	

LIST OF OPTIONS

For your register, the following options are available.
For details, contact your dealer.

- RAM memory chip model ER-03RA
- Remote drawer model ER-04DW
- Till model ER-48CC2
- Key kit models

By using the following key kits, you can change the keyboard layout of your register including the expansion of the number of departments.

ER-11KT7: 30 regular size key kits

ER-12KT7: 30 1 x 2 size key kits

ER-22KT7: 10 2 x 2 size key kits

ER-11DK7G: 30 regular size dummy key kits

ER-51DK7G: 10 5 x 1 size dummy key kits

- Hand scanner model ER-A6HS1

SPECIFICATIONS

Model:	ER-A450T
Dimensions:	16.5 (W) x 16.8 (D) x 11.5 (H) in. (420 (W) x 427 (D) x 292 (H) mm)
Weight:	27.6 lbs (12.5 kg)
Power source:	Local voltage \pm 10% AC, 50/60Hz
Power consumption:	Stand-by 14W Operating 37W (max.)
Working temperature:	32 to 104 °F (0 to 40 °C)
Electronics:	LSI (CPU) etc.
Built-in battery:	Rechargeable battery, memory holding time about 1 month (with fully charged built-in battery, at room temperature)
Display:	
Operator display:	7-segment display (10 positions)
Customer display:	7-segment display (7 positions)
Printer:	
Type:	2-station thermal printer
Printing speed:	Approx. 13.3 lines/second
Printing capacity:	24 digits each for receipt and journal paper
Other functions:	<ul style="list-style-type: none">• Graphic logo printing function• Logo message function• Receipt (ON-OFF) function, journal selective function• Receipt and journal independent paper feed function
Paper roll:	Width: 1.75 \pm 0.02 in. (44.5 \pm 0.5 mm) Max. diam.: 3.15 in. (80 mm) Quality: High quality (0.06 to 0.08 mm thickness)
Cash drawer:	4 slots for bill and 8 for coin denominations
Accessories:	Manager key 2 Submanager key 2 Operator key 2 Drawer lock key 2 Bill separator 1 Paper roll 2 Take-up spool 1 Fixing angle bracket 1 Instruction manual 1 copy

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

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