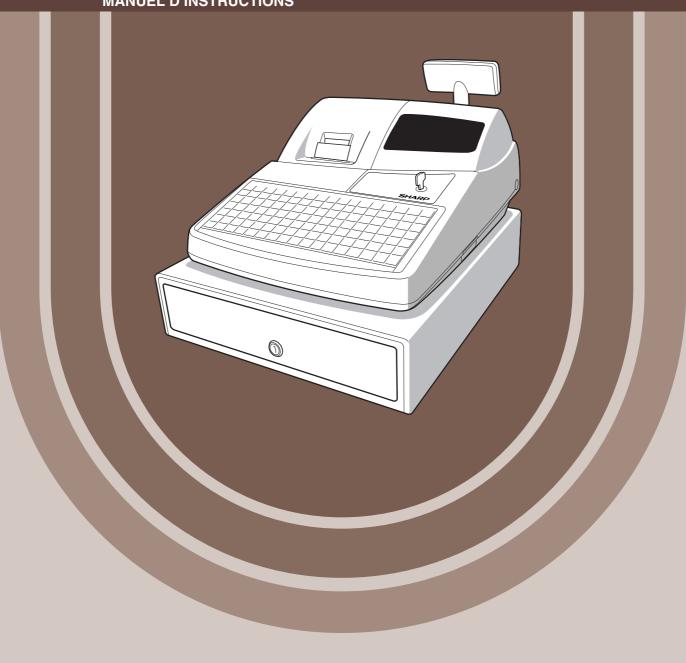
SHARP®

ELECTRONIC CASH REGISTER
ELEKTRONISCHE REGISTRIERKASSE
CAISSE ENREGISTREUSE ELECTRONIQUE
CAJA REGISTRADORA ELECTRONICA
ELEKTRONISCHE KASSA

MODEL MODELL MODELL MODEL XE-A212
MODEL MODEL

INSTRUCTION MANUAL BEDIENUNGSANLEITUNG MANUEL D'INSTRUCTIONS

MANUAL DE INSTRUCCIONES GEBRUIKSAANWIJZING



CAUTION:

The cash register should be securely fitted to the supporting platforms to avoid instability when the drawer is open.

CAUTION:

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

VORSICHT:

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

ATTENTION:

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

AVISO:

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

VARNING:

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

LET OP:

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

CAUTION:

For a complete electrical disconnection pull out the mains plug.

VORSICHT:

Zur vollständigen elektrischen Trennung vom Netz den Netzstecker ziehen.

ATTENTION:

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

AVISO:

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

VARNING:

För att helt koppla från strömmen, dra ut stickproppen.

LET OP:

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

This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/FEG

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Η εγκατάσταση αυτή ανταποκρίνεται στις απαιτήσεις των οδηγιών της Ευρωπαϊκής Ενωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, όπως οι κανονισμοί αυτοί συμπληρώθηκαν από την οδηγία 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som komplette ras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

INTRODUCTION

Thank you very much for your purchase of the SHARP Electronic Cash Register, Model XE-A212. Please read this manual carefully before operating your machine in order to gain full understanding of functions and features.

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

CAUTION!

Never install the batteries into the cash register before initializing it. Before you start operating the cash register, you must first initialize it, then install three new R6 or LR6 batteries ("AA" size) on the register. Otherwise, distorted memory contents and malfunction of the cash register will occur. For this procedure, please refer to page 9.

IMPORTANT

- Be very careful when removing and replacing the printer cover, as the cutter mounted on it is very sharp.
- Install the cash register in a location not subject to direct sunlight, unusual temperature changes, high humidity or splashing water.
 - Installation in such locations could cause damage to the cabinet and the electronic components.
- Never operate the register with wet hands.
- The water could seep into the interior of the register and cause component failure.
- When cleaning your register, use a dry, soft cloth. Never use solvents, such as benzine and/or thinner.
- The use of such chemicals will lead to discoloration or deterioration of the cabinet.
- The register plugs into any standard wall outlet (official (nominal) voltage).
 Other electrical devices on the same electrical circuit could cause the register to malfunction.
- For protection against data loss, please install three R6 or LR6 batteries ("AA" size) after initializing the cash register. When handling the batteries, please observe the following:

 Incorrectly using batteries can cause them to burst or leak, possibly damaging the interior of the cash

Incorrectly using batteries can cause them to burst or leak, possibly damaging the interior of the cash register.

- Be sure that the the positive (+) and negative (-) poles of each battery are facing in the proper direction for installation.
- · Never mix batteries of different types.
- Never mix old batteries and new ones.
- · Never leave dead batteries in the battery compartment.
- · Remove the batteries if you do not plan to use the cash register for long periods.
- Should a battery leak, clean out the battery compartment immediately, taking care to avoid letting the battery fluid come into direct contact with your skin.
- For battery disposal, follow the corresponding law in your country.
- For complete electrical disconnection, disconnect the main plug.

For Easy Set-up, see "GETTING STARTED" (page 8).

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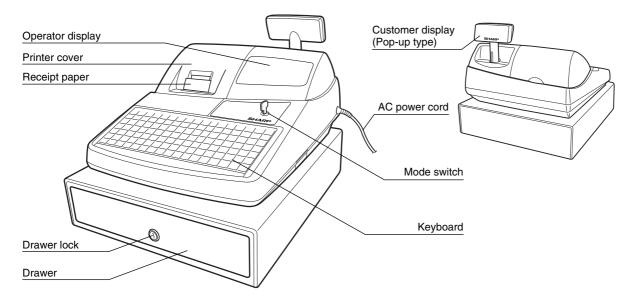
3

PARTS AND THEIR FUNCTIONS

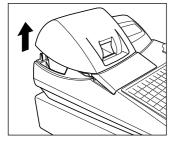
External View

■ Front view

Rear view



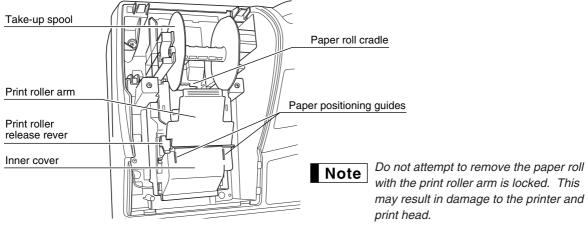
2 Printer



The printer is one station type thermal printer, therefore it does not require any type of ink ribbon or cartridge.

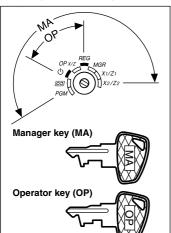
Lift the rear of the printer cover to remove. To re-install, hook the pawls on the cabinet and close.

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



3 Mode Switch and Mode Keys

The mode switch can be operated by inserting one of the two supplied mode keys - manager (MA) and operator (OP) keys. These keys can be inserted or removed only in the "REG" or " \uplus " position.



The mode switch has these settings:

b: This mode locks all register operations. (AC power turns off.)

No change occurs to register data.

OP X/Z: To take individual clerk X or Z reports, and to take flash reports.

It can be used to toggle receipt state "ON" and "OFF" by pressing

the RCPT key.

REG: For entering sales.

PGM: To program various items.

: Enters into the void mode. This mode allows correction after

finalizing a transaction.

MGR: For manager's entries. The manager can use this mode for an

override entry.

X1/Z1: To take the X/Z report for various daily totals

X2/Z2: To take the X/Z report for periodic (weekly or monthly)

consolidation

4 Keyboard

■ Keyboard layout

1	ESC	2	4	6	GC RCPT	L3	7	14	21	28	35	42	49	56	63	70
RCPT	EX	1	3	5	AUTO	L2	6	13	20	27	34	41	48	55	62	69
CLK #	VAT	8	•	CL	DEPT #	L1	5	12	19	26	33	40	47	54	61	68
#	PLU/ SUB	7	8	9	GLU	NBAL	4	11	18	25	32	39	46	53	60	67
Θ	%	4	5	6	CR1	CR2	3	10	17	24	31	38	45	52	59	66
РО	RA	1	2	3	CH1	CH2	2	9	16	23	30	37	44	51	58	65
\sim	RF	0	00	NS	ST	TL	1	8	15	22	29	36	43	50	57	64

Key names

- Paper feed key
- ESC Escape key
- RCPT Receipt print key
- Clerk code entry key
- Mon-add code/Time display key
- Foreign currency exchange key
- VAT Value added tax key
- PLU/Subdepartment key

- O Discount key
- % Percent keys
- PO Paid-out key
- RA Received-on account key
- ∇oid key
- RF Refund key
- 1 ~ 6 Department keys
- Multiplication key

- Decimal point key
- CL Clear key
- 00 0 ~ 9 Numeric keys
- NS No sale key
- Guest check receipt key
- AUTO Automatic sequence key
- Department code entry key
- L1 ~ L3 PLU level shift keys

GLU Guest look up key	CH1 CH2 Cheque 1 and 2 keys	TL Total key
NBAL New balance key	ST Subtotal key	1 ~ 70 Direct PLU keys
CR1 CR2 Credit 1 and 2 kevs		

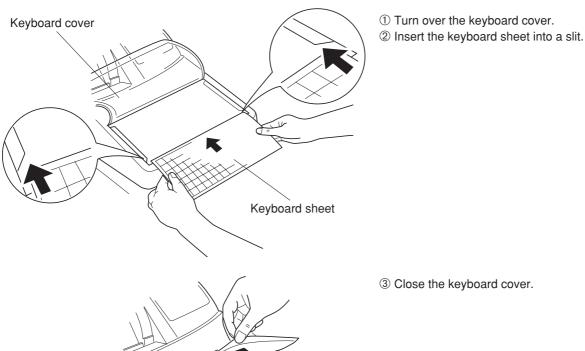
Note

In this manual, key tops are shown in one line, such as PlusuB for easy reading. Department keys are shown like 1, and numeric keys are indicated with simple number indication, such as 1, unless otherwise specified.

Keyboard sheet

Two types of keyboard sheets are installed on the cash register; one for ordinal use and one for text programming.

To reinstall the keyboard sheet or a new sheet, please follow the procedure below.



3 Close the keyboard cover.

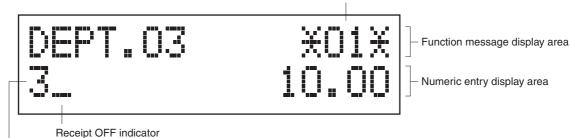


- Do not spread the keyboard cover too far as it might tear the tabs.
- Replace the keyboard sheet with a new one if chance it gets wet. Use of a wet keyboard sheet may cause problems.
- Be sure to use only SHARP-supplied keyboard sheets. Thick or hard sheets can make key operations difficult.
- Place the keyboard sheet evenly under the keyboard cover.
- The keyboard cover will eventually wear out. If your keyboard cover is dirty or broken, replace the cover with a new one. For details, please contact a nearby authorized SHARP dealer.

5 Displays

Operator display

Clerk code or mode name



Repeat / Power save mark

• Clerk code or Mode name

The mode you are in is displayed. When a clerk is assigned, the clerk code is displayed in the REG or OP X/Z mode. For example, "\times 01\times" is displayed when clerk 01 is assigned.

Repeat mark

The number of repeats is displayed, starting at "2" and incremental with each repeat. When you have registered ten times, the display will show "0". $(2 \rightarrow 3 \dots 9 \rightarrow 1 \rightarrow 2\dots)$

Power save mark

When the cash register goes into the power save mode, the power save mark (decimal point) lights up.

• Function message display area

Item labels of departments and PLU/subdepartments and function texts you use, such as %, (–) and CASH are displayed. For the details of function texts, please refer to pages 45.

When an amount is to be entered or entered, "AMOUNT" is displayed: When an amount is to be entered, ----- is displayed at the numeric entry area with "AMOUNT". When a preset price has been set, the price is displayed at the numeric entry area with "AMOUNT".

• Numeric entry display area

Numbers entered using numeric keys are displayed here.

Date and time display

Date and time appear on the display in the OP X/Z, REG, or MGR mode. In the REG or MGR mode, press the # key to display the date and time.

Error message

When an error occurs, the corresponding error message is displayed in the function message display area. For details of error messages, please refer to "Error message table" on page 79.

■ Customer display (Pop-up type)



Power save mark (Mark only lights up in the power save mode.)

B Drawer Lock Key

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



GETTING STARTED

Please follow the procedure shown below.

1

Installing the cash register

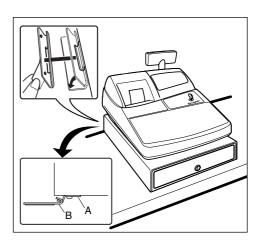
Unpack the cash register and make sure all accessories are included. For details of accessories, please refer to "Specifications" section.

For installing the cash register, find a stable surface near an AC outlet where the cash register will not subject to water sources or direct sunlight, then install the register using the fixing angle bracket provided with the register. The fixing angle bracket prevents the register from moving when the drawer opens. By hooking the register on the bracket, you can secure the register to the position.

Follow the procedure shown below for the installation.

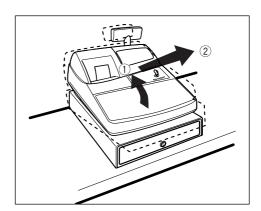
How to install the fixing angle bracket

- Thoroughly clean the location where the fixing angle bracket
 (B) is to be placed.
- 2. Peel off the adhesive tape on the fixing angle bracket.
- **3.** Hook the angle bracket onto the hook (A) that is located at the bottom rear of the register.
- **4.** Firmly stick the fixing angle bracket to the table surface that you cleaned above.



How to remove the register from the fixing angle bracket

 Lift up the front of the register and pull the register towards you.

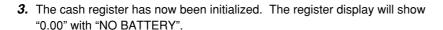


Initializing the cash register

In order for the cash register to operate properly, you must initialize it before operating for the first time. Follow this procedure.

- **1.** Insert the manager (MA) key into the mode switch and turn it to the REG position.
- 2. Insert the plug of the AC power cord into the AC outlet. The buzzer will sound three times.

IMPORTANT: This operation must be performed without batteries installed.



NO BATTERY 0.00

OPX/Z

 \odot

PGM

Note

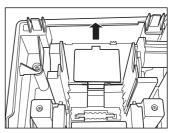
If the buzzer does not sound when the plug is inserted, the initialization has not been done successfully. (This will occur when the voltage is high because you operated the cash register before starting initialization.) Wait at least one minute after pulling out the plug and insert the plug again.

Installing batteries

Three new R6 or LR6 batteries ("AA"size) must be installed in the cash register to prevent the data and user-programmed settings from being erased from the memory, when the AC cord is accidentally disconnected or in case of power failure. Once installed, the batteries will last approximately one year before needing replacement. At this time, the warning message "LOW BATTERY" will appear on the display to indicate the batteries are low and must be replaced within two days. If the warning message "NO BATTERY" appears, you must install the batteries at once.

Install three new R6 or LR6 batteries ("AA"size) according to the procedure shown below with the AC cord connected and the mode switch set to the REG position:

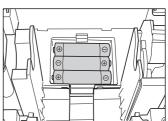
- Push the printer cover forward and detach it.
 Be careful with the paper cutter, so as not to cut yourself.
- 2. Open the battery compartment cover next to the paper roll cradle.



- 3. Install three new R6 or LR6 batteries ("AA"size) as per the diagram. When the batteries are properly installed "NO BATTERY" message on the display will disappear.
- 4. Close the battery compartment cover.



- Be sure to observe precautions shown on page 1 when handling hatteries
- If you press a key by mistake, an error message "PAPER EMPTY" may be displayed. Press the CL key to clear message after installing paper rolls.



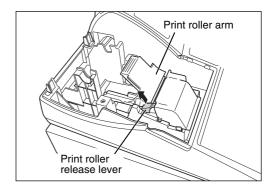


Installing a paper roll

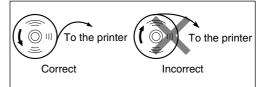
Precaution: The paper cutter is mounted on the printer cover. Take caution when removing and installing the cover.

The register can print receipts or journals. For the printer, you must install the paper roll provided with the register, even when you program the register for not printing receipts or journals. Install the paper roll according to the procedure shown below with the AC cord connected and the mode switch set to the REG position:

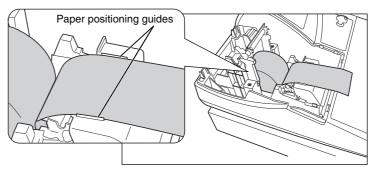
 Lift up the print roller release lever to unlock and open the print roller arm.



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



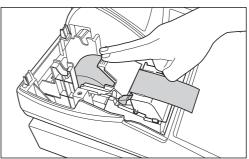
3. Feed the end of the paper along with the paper positioning guides as per the diagram.



4. While holding down the paper, slowly close the print roller arm, and push down the arm until you hear a click locking the arm. Make sure securely you push down the center of the wing part of the arm as per the diagram. The paper will be fed automatically.



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



5. When not using the take-up spool (using as receipt paper):

 Cut off the excess paper using the edge of the inner cover, and replace the printer cover. Press the key to make sure the paper end comes out of the printer cover and clean paper appears.



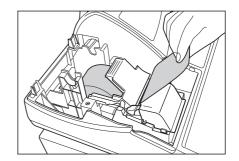
If the paper end does not come out, open the printer cover, and pass the paper end between the paper cutter and the paper guide of the printer cover, and replace the cover.

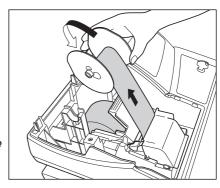
When using the take-up spool (using as journal paper):

- Insert the end of the paper into the slit in the spool. (Press the hey to feed more paper if required.)
- Wind the paper two or three turns around the spool shaft.
- Set the spool on the bearing, and press the key to take up excess slack in the paper.
- · Replace the printer cover.



When using a paper roll as journal paper, you must change the printing style. Refer to "Print Format" in "Various Function Selection Programming 1" section (Job code 6) for changing the printing style.





5

Programming date, time and VAT/tax



The cash register provides text languages of English, German, French and Spanish. It is preset to English. If you want to change the language, you must change it before programming. Refer to "Language selection" in "Various Function Selection Programming 2" (Job code 88) section for changing the language.

Before you can proceed with registration of sales, you must program:

• date

• time

VAT/tax

Please refer to the BASIC FUNCTION PROGRAMMING section for details (page 34).

Programming other necessary items

While the cash register is pre-programmed so it can be used with minimal setup, it does provide you with optional functions. Especially to use direct PLU keys effectively, you should program for PLU/subdepartments. Before you start programming, please read through the sales operations section to understand optional functions.

Decimal point position (tab) setting for domestic currency

By default, "2" is selected. When your country has a different tab setting, you must change the setting. Please refer to "Other programming" of "Various Function Selection Programming 1" (Job code 61) on page 51.

Rounding system

When your country has a special rounding system, such as Australia, Switzerland, Norway, Sweden, Denmark and South Africa, you must change the setting to suit your country. For the setting for Australia, Switzerland, Norway and South Africa, please refer to "Other programming" of "Various Function Selection Programming 1" (Job code 67) on page 53. For the setting for Sweden and Denmark, please refer to "Other programming" of "Various Function Selection Programming 1" (Job code 69) on page 55.

VAT/tax

The cash register provides 6 kinds of VAT/tax. Select an appropriate VAT/tax system first, then set tax rates (up to 4 rates) and assign taxable status to departments. By default, VAT 1 is assigned for all departments.

Department programming:

The cash register is pre-programmed for departments as follows:

Department: Allow open price entry in normal department, taxable status- taxable 1 for all departments.

PLU/subdepartment programming:

The cash register is preprogrammed for PLUs/subdepartments as follows:

PLU/subdepartment selection: PLU is selected for all PLU codes so that you only have to program unit prices and associated departments for them (by default, unit price is set to 0 and associated department is set to department 1). Function parameters including tax status depend on the status of associated department.

• For direct PLU keys, PLU codes 1 through 70 are assigned for PLU 1 through 70 keys respectively. In case you use the PLU level shift keys, you can add number of direct PLU keys. For the function details, please refer to "PLU level shift (for direct PLU key)" on page 17 and for the programming details, please refer to "Direct PLU key programming" on page 37.



Starting sales entries

Now you are ready for sales registration.

FOR THE OPERATOR

BASIC SALES ENTRY

1 Basic Sales Entry Example

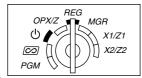
Listed below is a basic sales entry example when selling items by cash. For operation details, please refer to each section.

Mode switch setting

1. Turn the mode switch to the REG position.

Clerk assignment

2. Enter your clerk code. (For example, clerk code is 1. Enter 1 using the numeric key and press the <code>CLK#</code> key.) The clerk code 1 is automatically selected just after initialization of the cash register.



Item entries

3. Enter the price for the first department item. (For example, for 15.00, enter 1500 using the numeric keys, and press the appropriate department key.)

For department 7 and above, enter the department code using numeric keys and press the tey, then enter the price and press the tey again.

4. Repeat step 3 for all department items.

Displaying subtotals

5. Press the ST key to display the amount due.

Finalizing the transaction

- **6.** Enter the amount received from the customer. (You can omit this step if the amount tendered is the same as the subtotal.)
- 7. Press the TL key, and the change due is displayed and the drawer is opened.

2.00

- 8. Tear off the receipt and give it to the customer with his or her change.
- 9. Close the drawer.

Clerk CLERK 01 *****01***** -01assignment DEPT.01 *****01***** 1500 [1] Item 15.00 entries 2300 2 DEPT.02 *****01***** 23.00 Displaying ST SUBTOTAL *****01***** subtotal 38.00 *****01***** 4000 4000 CHANGE *****01***** Finalizing [TL]

Key operation example

* 1 2 : indicate department keys.

the transaction

(In this example, tax system is set to automatic VAT 1 and the tax rate is set to 6.25%.)

SHARP PRESENTS THE XE-A212 Logo message SHARP IS THE BEST 26/08/2003 16:42 01 Date/Time/Clerk code 123456#1032 CLERK 01 Register number /Consecutive number/Clerk name Items DEPT.01 ***15.00** Price DEPT. 02 ***23.00** *38.00 SUBTOTAL TAX1 ST ***38.00** Not printed when non-taxable items VAT 1 *2.24 only are sold ***35.76** NET 1 20 ITEMS Total quantity ***TOTAL ***38.00** Total amount **CASH** Cash tendering/amount received *40.00 Change CHANGE *****2.00

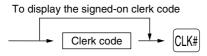
Receipt print

Clerk assignment

Prior to any item entries, clerks must enter their clerk codes into the register. However, the code entry may not be necessary when the same clerk handles the consecutive transactions.

■ Sign-on (in REG, MGR, mode)

■ Sign-off (in REG, MGR, 🖾 mode)





Receipt ON/OFF function

When you use the printer to issue receipts, you can disable receipt printing in the REG mode to save paper using the receipt ON/OFF function. To disable receipt printing, press the printing key in the OP X/Z position. This key toggles the receipt printing status ON and OFF. When the function is in the OFF mode, the receipt off indicator "_" is illuminated.

The register will print reports regardless of the receipt state, so the paper roll must be installed.

To issue a receipt when receipt ON/OFF function is set to OFF:

If your customer wants a receipt after you finalized a transaction with the receipt ON/OFF function being OFF status, press the [ROT] key. This will produce a receipt. However, if more than 30 items were entered, the receipt will be issued in a summary receipt.

Copy receipt

You can print a copy receipt by pressing the key when the receipt ON/OFF function is in the "ON" status. To realize this function, you must enable the function. Please refer to page 52 (Job code 63).

Power Save Mode

The register will enter into power save mode when no entries are performed based on the pre-programmed time limit (by default, 30 minutes).

When the register goes to the power save mode, all display lights will turn off except the decimal point at the leftmost position of the lower line. The register will return to the normal operation mode when any key is pressed or a mode is changed with the mode key. Please note when the register is recovered by a key entry, its key entry is invalid. After the recovery, start the key entry from the beginning.

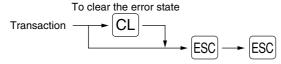
2 Error Warning

In the following examples, your register will go into an error state accompanied with a warning beep and a corresponding error message. Clear the error state by pressing the CL key and take the proper action. Please refer to the error message table on page 79.

- Enter over a 32-digit number (entry limit overflow): Cancel the entry and re-enter the correct number.
- An error in key operation: Clear the error and continue operation.
- 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.
- An including-tax subtotal exceeds eight digits: Delete the subtotal by pressing the CL key and press the TL, CH1, CH2, CR1 or CR2 key to finalize the transaction.

Error escape function

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



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

3 Item Entries

■ Single item entries

1. Department entries

The cash register provides a maximum of 50 departments for a merchandise classification. Group attributes, such as taxable status, are applied to items when they are entered to the departments.

• When using the department keys (for department 1 to 6)

For department 1 to 6, enter a unit price and press a department key. If you use a programmed unit price, press a department key only.

When using a programmed unit price

Unit price *

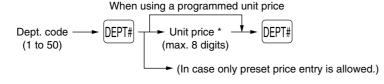
(max. 8 digits)

Department key

* Less than the programmed upper limit amounts When zero is entered, only the sales quantity is added.

• When using the department code entry key

Enter a department (dept.) code and press the pept key, then enter a unit price and press the pept key again. If you use a programmed unit price, enter a dept. code and press the pept key.



* Less than the programmed upper limit amounts When zero is entered, only the sales quantity is added.

2. PLU/subdepartment entries

For another merchandise classification, the cash register provides a maximum of 1200 PLUs/subdepartments. PLUs are used to call up preset prices by pressing direct PLU keys or entering PLU codes with a press of the PLUSUB key. Subdepartments are used to classify merchandise into smaller groups under the departments. Every PLU and subdepartment has a code from 1 to 1200, and should belong to a department to obtain attributes of that department.

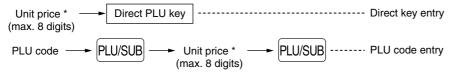
By default, the cash register is preprogrammed to be able to use 1 to 210 codes, and these 210 codes are set to PLU mode and zero for unit price.

To extend the number of PLU codes to 1200, please refer to "EJ memory type" on page 57, and for other PLU/subdepartment programming, refer to "PLU and Subdepartment Programming" on page 37.

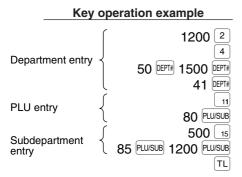
PLU entries

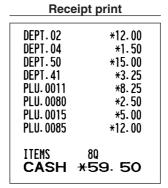


Subdepartment (open PLU) entries



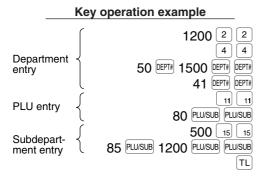
* Less than the programmed upper limit amounts When zero is entered, only the sales quantity is added.

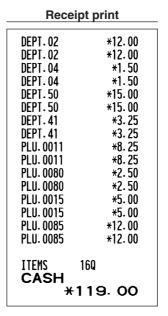




Repeat entries

You can use this function for entering a sale of two or more of the same items. Consecutive pressing of a department key, permit key, a direct PLU key or plusual key is as shown on key operation example below.





Multiplication entries

When selling a large quantity of items, it is convenient to use the multiplication entry method. Enter quantity using numeric keys and press the \bigotimes key before starting item entry as shown in the example below.

Note

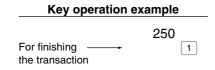
When programmed to allow fractional quantity entries, you can enter up to four integers and three digit decimal, though the quantity is counted as one for sales reports. To enter a fractional quantity, use the decimal point key between integer and decimal.

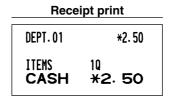
Receipt print

3 x 12.00	
DEPT.02	*36.00
55x 1.50	
DEPT. 04	¥7.50
3x 15.00	
DEPT. 50	*45.00
	×43.00
5 x 3.25	
DEPT. 41	*16.25
3x 8.25	
PLU. 0011	*24. 75
5 x 2.50	
PLU. 0080	*12.50
3x 5.00	
PLU. 0015	*15.00
5x 12.00	~13.00
PLU. 0085	*60.00
LL0.0000	*00.00
77540	000
ITEMS	32Q
CASH	
X	217. 00

■ Single item cash sale (SICS) entry

- This function is useful when a sale is for only one item and is for cash. This function is applicable only to those departments that have been set for SICS or to their associated PLUs or subdepartments.
- The transaction is complete and the drawer opens as soon as you press the department key, pertil key, the direct PLU key or plusus key.







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

■ PLU level shift (for direct PLU key)

This shift can double or triple the number of direct PLU keys on your register without adding additional direct PLU keys. You can use direct PLU keys in three levels by utilizing shift keys L1, L2, and L3. These keys have the following functions.

- [L1]: Shifts the PLU level from level 2 or 3 to level 1 (ordinary level).
- L2: Shifts the PLU level from level 1 or 3 to level 2.
- L3: Shifts the PLU level from level 1 or 2 to level 3.

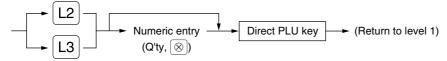
You can select one of the two PLU level shift modes — <u>automatic return mode* and lock shift mode**</u> — and decide whether to allow PLU level shift in both the REG and MGR modes or in the MGR mode alone.

- * The automatic return mode automatically shifts the PLU level back to level 1. You can select whether the PLU level should return to level 1 each time you enter <u>one item</u> or each time you finalize <u>one transaction</u>.
- ** The lock shift mode holds the current PLU level until pressing of a PLU level shift key.

By default, you can operate PLU level shift in both the REG and MGR modes under the automatic return mode (returning to level 1 after an item entry). To change the setting, please refer to "PLU level shift and GLU function parameters" on page 51.

• Automatic return mode

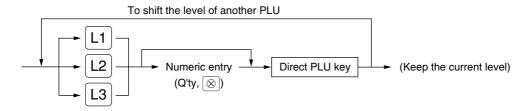
Returning to level 1 after an item entry (default)



Returning to level 1 after finalizing a transaction

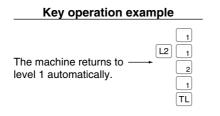


Lock shift mode



NoteIf you select the automatic return mode, it is not necessary to use the L1 key on the keyboard, but if you select the lock shift mode, it is necessary to use the key.

When your machine has been programmed for the automatic return mode (returning to level 1 after an item entry):



Receipt print				
PLU. 0001 PLU. 0071 PLU. 0002 PLU. 0001	*5. 00 *3. 25 *5. 70 *5. 00			
ITEMS Cash	40 *18. 95			

When your machine has been programmed for the lock shift mode:

Key operatio	n exa	ample
The machine keeps the level 2 until other level shift key is pressed.	{	L1 1 2 1 L1 1 TL

Receipt print				
PLU. 0001	*5.00			
PLU. 0071 PLU. 0072	*3.25 *1.50			
PLU. 0071 PLU. 0001	*3.25 *5.00			
. 25 555	3.33			
ITEMS Cash	50 +18. 00			

4 Displaying Subtotals

The subtotal is displayed by pressing the structure key. When you press it, the subtotal of all entries which have been made is displayed with the function message "SUBTOTAL".

Note

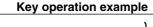
Subtotal will not be printed on a receipt on the current factory setting. If you want to print it, change the setting by programming. Refer to "Receipt print format" (Job code 7) on page 50.

5 Finalization of Transaction

■ Cash or cheque tendering

Press the ST key to get a subtotal, enter the amount tendered by your customer, then press the TL key if it is a cash tender or press a cheque key (CHI) or CH2) if it is a cheque tender. When the amount tendered is greater than the amount of the sale, the register will show the change due amount with the function message "CHANGE". Otherwise the register will show a deficit with the function message "DUE". You now must make a correct tender entry.

Cash tendering



1000 TL

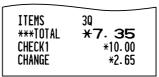
Receipt print

Cheque tendering

Key operation example



Receipt print



■ Cash or cheque sale that does not require tender entry

Enter items and press the TL key if it is a cash sale or press a cheque key if it is a cheque sale. The register will display the total sale amount.

Key operation example

Receipt print



Note

When programmed not to allow "direct non-tender finalization after tendering" (Job code 63, refer to page 52), you must always enter a tender amount.

Credit sale

Enter items and press a credit key (CR1 or CR2).

Key operation example

2500 6 7 DEPT# 3250 DEPT#

Receipt print

DEPT.06	*25.00
DEPT.07	*32.50
ITEMS	20
CREDIT1	*57. 50

■ Mixed-tender sale

You can perform mixed-tendering of cheque and cash, cash and credit, and cheque and credit.

Key operation example

950 TL CR2

Receipt print

CREDIT2 *40.00	0112212	TTEMS 30 ***TOTAL *49.50 CASH *9.50 CREDIT2 *40.00
----------------	---------	--

6 Computation of VAT (Value Added Tax)/tax

■ VAT/ tax system

The cash register may be programmed for the following six VAT/tax systems. The cash register is preprogrammed as automatic VAT 1-4 system.

Automatic VAT 1-4 system (Automatic operation method using programmed percentages)

This system, at settlement, calculates VAT for taxable 1 through 4 subtotals by using the corresponding programmed percentages.

Automatic tax 1-4 system (Automatic operation method using programmed percentages)

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

Manual VAT 1-4 system (Manual entry method using programmed percentages)

$$\longrightarrow$$
 \boxed{ST} \longrightarrow \boxed{VAT}

This system provides the VAT calculation for taxable 1 through 4 subtotals. This calculation is performed using the corresponding programmed percentages when the VAT key is pressed just after the ST key.

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

To use a programmed rate

VAT rate

VAT

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

Manual tax 1-4 system (Manual entry method using preset percentages)

$$\longrightarrow$$
 \boxed{ST} \longrightarrow \boxed{VAT}

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

Automatic VAT 1 and automatic tax 2-4 system

This system enables the calculation in the combination with automatic VAT 1 and automatic tax 2 through 4. The combination can be any of VAT1 corresponding to taxable 1 and any of tax 2 through 4 corresponding to taxable 2 through taxable 4 for each item. The tax amount is calculated automatically with the percentages previously programmed for these taxes.

Note

- The tax status of PLU/subdepartment depends on the tax status of the department which the PLU/subdepartment belongs to.
- VAT/tax assignment symbol can be printed at the fixed right position near the amount on the receipt as follows:

When the multiple VAT/tax is assigned to a department or a PLU, a symbol of the lowest number assigned to VAT/tax rate will be printed. For programming, please refer to "Various Function Selection Programming 1" (Job code 66) on page 53.

OPTIONAL FEATURES

1 Auxiliary Entries

Percent calculations (premium or discount)

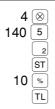
Your register provides the percent calculation for the subtotal and/or each item entry depending on the programming.

• Percentage: 0.01 to 100.00% (Depending on the programming)

Application of preset rate (if programmed) and manual rate entry are available.

Percent calculation for subtotal

Key operation example



Receipt print

1		
	4 x 1.40	
	DEPT. 05	*5.60
	PLU. 0002	*5. 70
	SUBTOTAL	*11.30
	JODIOIAL	-10%
	%	-1.13
	∕∘	-1.13
	TTENC	Γ0
	ITEMS	. 5Q
	CASH	* 10. 17

Percent calculation for item entries

Key operation example

(When premium and 15% are programmed for the % key)

Receipt print

DEPT. 06	*8.00
%	7.5% *0.60
PLU. 0010	*7.15 15.00%
%	*1.07
ITEMS	20
CASH	*16. 82

Deduction entries

Your register allows you to deduct a preset amount or a certain amount manually entered, which are less than a programmed upper limit. These calculations can be after the entry of an item and/or the computation of subtotal depending on the programming.

Deduction for subtotal

Key operation example

575 6
10
ST
100 ©
TL

Receipt print

DEPT. 06	*5.75
PLU. 0010	*7.15
SUBTOTAL	*12.90
(—)	-1.00
ITEMS	2Q
Cash	*11 . 90

Deduction for item entries

Key operation example

7 DEPT# 675 DEPT#

(When a deduction amount of 0.75 is programmed.)

Receipt print

Refund entries

For departments 1 to 6, enter the refund amount and press the RF key, and then press the corresponding department key (when using the preset price, omit entering the amount), and for a departments 7 to 50, enter the department code and press the RF and PF keys, then enter the refund amount and press the PF key if necessary.

For a refund of a PLU item, press the RF key and the corresponding direct PLU key, or enter the PLU code and press the RF key, then press the PLUSUB key.

For a refund of a subdepartment item, enter the refund amount and press the RF key, then press the corresponding direct PLU key, or enter the PLU code and press the RF and PLU/SUB keys, then enter the refund amount and press the PLU/SUB key.

Key operation example

250 RF 6
41 RF DEPT# 100 DEPT#
7
RF 13
85 RF PLUSUB 150 PLUSUB

Receipt print

DEPT. 06	R-2.50
DEPT. 41	R-1.00
-7x 2.1	0
PLU.0013	R-14. 70
PLU.0085	R-1. 50
ITEMS	00
Change	*19. 70

■ Non-add code number entries and printing

You can enter a non-add code number such as a customer's code number and credit card number, a maximum of 16 digits, at any point during the entry of a sale. The cash register will print it at once.

To enter a non-add code number, enter the number and press the # key.

Key operation example

1230 # 1500 6

Receipt print

DEPT. 06	0000000000001230 *15.00
ITEMS	1Q
CREDIT1	*15 . 00

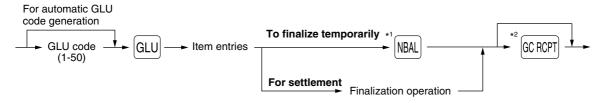
2 Guest Look-up (GLU)

This feature is used to store and recall previous balances when a guest look-up (GLU) code is entered. You can accept re-order and issue bills with GLU codes. The GLU code refers to a code that is used whenever the guest check must be accessed for re-ordering or final payment.

The GLU code can be 1 to 50.

For new guest

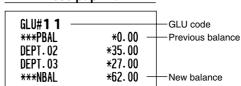
For a new guest, open a new guest check by assigning a GLU code.



- *1: The tax is not calculated.
- *2: Press the @RPT key to issue a guest check receipt (bill). A print sample is shown on the next page.

Key operation example

Receipt print



Note

- Your register can be programmed to generate GLU codes automatically in a sequential fashion. If your register has not been programmed to do so, each GLU code must be entered manually. By default, GLU codes are generated automatically. For the programming, please refer to "Other programming" (job code 68) on page 54.
- You can enter a maximum of 50 items for each GLU code. When the machine detects only area for five items are left on the GLU buffer, the operator display shows "5 ITEMS REMAIN" to warn you the number of items you can enter furthermore and the number decrease one by one. When an error message "BUFFER FULL" is displayed, you cannot enter an item anymore. By default, the details of items for each GLU are cleared when you press the Republic Rey. You can clear the details when you press the Republic Rey as well the Republic Rey when you change the default setting. To change the setting, please refer to "PLU level shift and GLU function parameters" on page 51.
- You can change the printing style so that previous balance (PBAL) and new balance (NBAL) are printed on guest check receipts. To change the setting, please refer to "PLU level shift and GLU function parameters" on page 51.

Additional ordering

For making additional entries for a GLU already generated and not settled yet (hereinafter referred to as open GLU), enter the corresponding open GLU code and press the GLU key to recall the previous balance of the open GLU, then start item entries.

By default, when entering an open GLU code, the cash register does not check if the clerk code is the same as the new order was made for the guest. If you want the register check the clerk code, change the setting on "PLU level shift and GLU function parameters" (page 51). When the code is not the same, the register shows the error message "NO AUTHORITY" and does not accept additional order.



Key operation example

Receipt print

GLU# 1 1 ***PBAL DEPT. 05 DEPT. 06	*62.00 *14.00 *16.00
***NBAL	*92.00

Settlement

Key operation example

11 GLU

Guest check receipt (bill)

GC RCPT

Receipt print

GLU#11
***PBAL *92.00

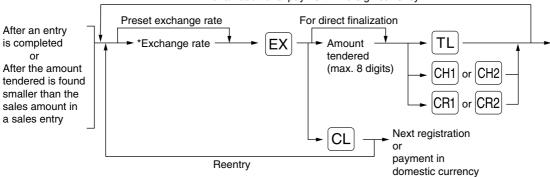
ITEMS 40
CASH *92.00

* BILL *	
GLU# 1 1 Dept.02	*35.00
DEPT. 03	*27.00
DEPT.05 DEPT.06	*14.00 *16.00
ITEMS CASH	40 *92. 00

3 Auxiliary Payment Treatment

■ Currency exchange

For an additional payment in foreign currency



^{*}Exchange rate: 0.000000 to 999.999999

Note

- Press the CL key after pressing the EX key to cancel payment in a foreign currency.
- If "Yes" is selected for cheque and credit operation when tendering in foreign currency in EURO programming, you can finalize a sale in foreign currency using the [CH1], [CH2], [CR1] or [CR2] key with preset exchange rate operation.
- If programmed, a foreign currency symbol is printed when you use a preset rate.

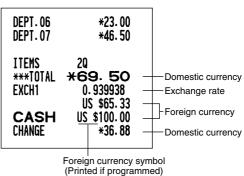
Applying preset exchange rate

Key operation example



(When a currency exchange rate of 0.939938 is programmed for the $\boxed{\text{Ex}}$ key.)

Receipt print



Applying manual exchange rate

Key operation example

	2300 6
	7 DEPT# 4650 DEPT#
Exchange rate	→1 · 275 EX
	10000 TL

Receipt print

DEPT. 06	*23.00
DEPT. 07	*46.50
ITEMS	20
***TOTAL	*69. 50
Exch2	1.275
CASH CHANGE	88.62 100.00 *8.92

■ Received-on account entries

When you receive on account from a customer, use the \boxed{RA} key. For the received-on-account (RA) entry, enter the amount, and press the \boxed{RA} key.

Note

Cash tendering only available for RA operation.

Key operation example

12345 # 4800 RA Receipt print

#000000000012345 ***R\$ *48.00

■ Paid-out entries

When you pay an amount to a vendor, use the PO key. For the paid-out (PO) entry, enter the amount and press the PO key.

Note

Cash tendering only available for PO operation.

Key operation example

54321 # 2300 PO Receipt print

#000000000054321 ***P0 *23.00

■ No sale (exchange)

When you need to open the drawer with no sale, press the NS key. The drawer will open and printer will print "NO SALE" on the receipt or journal. If you let the machine print a non-add code number before pressing the NS key, a no sale entry is achieved and a non-add code number is printed.

#0000000000045678 NO SALE

4 Automatic Sequence Key (Auto key) Entries

You can achieve a programmed transaction simply by pressing the [AUTO] key.

AUTO

Key operation example

(AUTO = 500 6 TL)

Receipt print

DEPT. 06 *5. 00

ITEMS 1Q **CASH** *5. 00

CORRECTION

1 Correction of the Last Entry (direct void)

If you make an incorrect entry relating to a department, PLU/subdepartment, percentage (%), discount (⑤) or refund, you can void this entry by pressing the 🖾 key immediately after the incorrect entry.

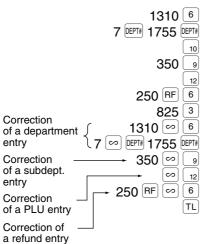
Receipt print	
DEPT. 06	*12.50
DEPT. 06	ຑ−12. 50
PLU. 0002	* 1.50
PLU. 0002	ທ−1. 50
DEPT. 08	* 6. 00
	15. 00%
%2	* 0. 90
%2	თ−0. 90
DEPT. 09	*3. 28
(-)	-0. 28
(-)	ø * 0. 28
DEPT. 06	R-2.50
DEPT. 06	Rø*2.50
ITEMS	20
CASH	* 9. 28

2 Correction of the Next-to-last or Earlier Entry (indirect void)

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

Press the key just before you press a department key, key, direct PLU key or key indirect void, press the key after you press the key.

Key operation example



Receipt print

DEPT. 06	*13.10
DEPT.07	*17.55
PLU. 0010	* 7.15
PLU. 0009	*3.50
PLU. 0012	*3.60
DEPT.06	R-2.50
DEPT.03	*8. 25
DEPT.06	ທ–13. 10
DEPT.07	ø−17. 55
PLU. 0009	ທ–3. 50
PLU. 0012	თ−3. 60
DEPT.06	Rળ×2. 50
17540	20
ITEMS	20
CASH	¥15. 40

3 Subtotal Void

You can void an entire transaction. Once subtotal void is executed, the transaction is aborted and the register issues a receipt. This function does not work when more than 30 items have been entered.

Key operation example	Receipt print
1310 2 2 1755 6 10 35 Subtotal void { ST	DEPT. 02 *13.10 DEPT. 02 *13.10 DEPT. 06 *17.55 PLU. 0010 *7.15 PLU. 0035 *10.00 SUBTOTAL *60.90 SBTL ω -60.90 ***ΤΟΤΑL *•Ο. ΟΟ

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 corrected by the manager. The following steps should be taken:

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

FOR THE MANAGER

PRIOR TO PROGRAMMING

Before starting sales entries, you must first program necessary items so the cash register suits your sales needs. In this manual, there are three sections, **BASIC FUNCTION PROGRAMMING where required items must be programmed**, AUXILIARY FUNCTION PROGRAMMING where you can program for more convenient use of keys on the keyboard, and ADVANCED FUNCTION PROGRAMMING where various optional programming features are provided. Find the appropriate features for your needs, and make the necessary programming.



You can select the language of text (English, German, French or Spanish) printed on receipts or journals. For the language selection, please refer to "Language Selection" described later in this section.

Procedure for programming

- 1. Check to see whether a paper roll is present in the machine. If there is not enough paper on a roll, replace it with a new one (refer to MAINTENANCE section for the replacement).
- **2.** Put the manager key in the mode switch and turn it to the PGM position.
- 3. Program necessary items into the cash register.
 Every time you program an item, the cash register will print the setting. Please refer to print samples in each section.
- 4. If necessary, issue programming reports for your reference.

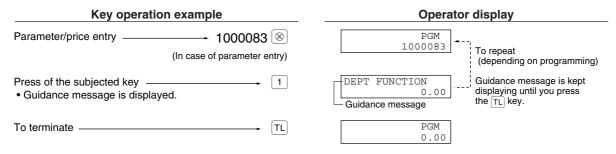
Note

- On the key operation example shown in the programming details, numbers such as "26082003" indicates the parameter which must be entered using the corresponding numeric keys.
- Asterisks in the tables shown in the programming details indicate default settings.

Guidance messages

Depending on programming items, the register shows guidance messages on the upper line of the operator display to indicate a programming item you are in, or guidance to enter data, as shown in the examples below. For direct PLU key programming, your register allows to program all necessary data in one procedure with the guidance messages. For guidance messages for direct PLU keys, please refer to "Direct PLU key programming" section.

Example 1: For key entry type programming



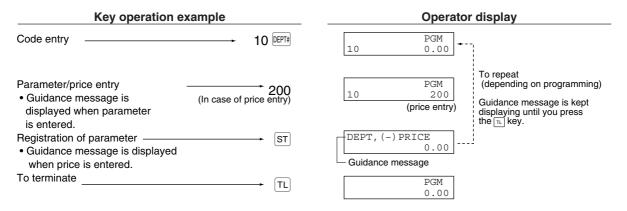
X1/Z1

X2/Z2

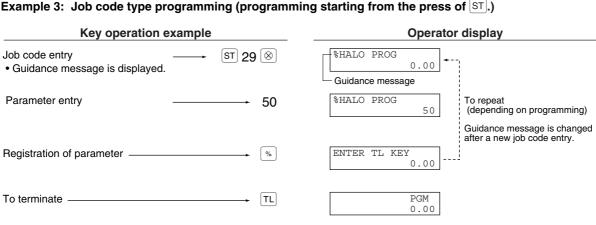
 $|\infty|$

PGM

Example 2: For department code/PLU code entry type programming



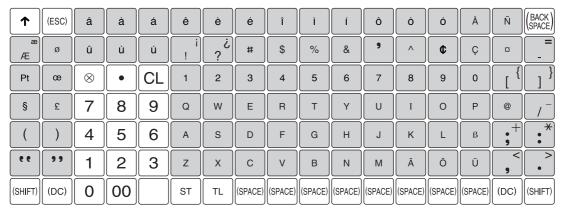
Example 3: Job code type programming (programming starting from the press of ST.)



Guidance for text programming

The register allows you to program text for clerk names, department item names, PLU/subdepartment item names, if necessary. When you program texts, place the keyboard sheet for text programming over the keyboard sheet for ordinal use. For the placement, please refer to "Keyboard sheet" section on page 6. There are two ways for programming text; using character keys (shaded area shown below on the keyboard sheet for text programming) or entering character codes with numeric keys on the keyboard.

Keyboard sheet for text programming



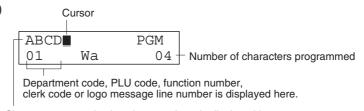
Please note that the character keys used for entering numbers (shaded area) are different from numeric keys. The following are used as control keys for text programming.

- Toggles between upper-case and lower-case letters. By default, the upper-case letter is selected. Once the step is pressed, you are locked in for entering lower-case letters. "a" is displayed when lower-case letters entry is selected as shown in the operator display example below.
- Toggles between single-size and double-size characters. By default, the single-size character is selected. Once the (DO) key is pressed, you are locked in for entering double size characters. "W" is displayed when double-size characters entry is selected as shown in the operator display example below.
- Backs up the cursor, erasing the character to the left.

Using character keys (Keys on the shaded area)

To enter numerals, letters and symbols, simply press the corresponding character on the shaded area on the keyboard.

Operator display (Example)



Characters entered using character keys is displayed here.

Example

To program the word "Clerk01" with the letter "C" being double size.

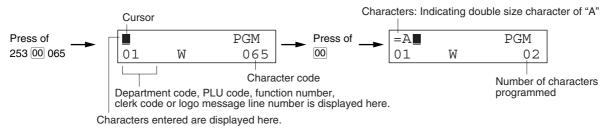
=CPGM (DC) C To make the letter "C" double size character 01 02 =C PGM To make character size return to normal size (DC) 01 =C PGM To toggle the characters to lower-case letters (SHIFT) 02 =Clerk01■ PGM L E R K 0 1 01 80

Entering character codes with numeric keys on the keyboard

To enter a numeral, letter or symbol, enter a character code using numeric keys and press the numeric key $\boxed{00}$. For the character codes, please refer to the alphanumeric character code table on the next page. Be doing this, you can program characters other than those on the key tops.

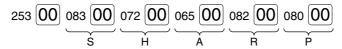
- Double-size characters can be made by entering the character code 253 or pressing the (DC) key. "W" is displayed when double-size characters entry is selected as shown in the operator display example below.
- All three digits of the character code MUST be entered (even if it starts with zero).

Operator display (Example)



Example

To program the word "SHARP" in double-size characters



Alphanumeric character code table

Code	Character
001	á
002	â
003	ê
004	î
005	ì
006	í
007	ô
008	ó
009	û
010	ú
011	œ
012	ű
013	ú
014	б
015	ó
016	Λ
017	Ψ
018	Γ
019	
020	Ω
021	Δ
022	θ
023	E
024	П
025	Σ
026	Y
027	Φ
028	Ű
029	Ú
030	
031	Ő
032	(space)
033	!
034	, ,
035	#
036	\$
037	%
038	&
039	,
040	(
041)
042	*
043	+
044	,
045	

er code table	
Code	Character
046	
047	/
048	0
049	1
050	2
051	3
052	4
053	5
054	6
055	7
056	8
057	9
058	:
059	;
060	<
061	=
062	>
063	?
064	@
065	A
066	В
067	C
068	D
069	E
070	F
071	G
072	Н
073	1
074	J
075	K
076	L
077	M
078	N
079	0
080	P
081	Q
082	R
083	S
084	T
085	U
086	V
087	W
088	X
089	Y
009	I

Code	Character
091	Ä
092	Ö
093	Ü
094	٨
095	_
096	•
097	а
098	b
099	С
100	d
101	е
102	f
103	g
104	h
105	i
106	j
107	k
108	l l
109	m
110	n
111	0
112	
113	p q
114	r
115	s
116	t
117	u
118	V
119	w
120	X
121	у
122	Z
123	
124	{
125	
126	}
127	ß
	¢
128	!!
129	1
130	2
131	3
132	4
133	1/2
134	F _T
135	←

Code	Character
	1
136 137	→ ~
138	<u>~</u>
139	◀
140	
141	<u> </u>
142	F T
143	
144	
145	Ç
146	i
147	ù
148	à
149	Æ
150	Ø
151	Å
152	¤
153	é
154	è
155	Pt
156	i
157	Ñ
158	Ò
159	£
160	¥
161	٥
162	Г
163	
164	\
165	
177	Á
178	Í
180	Ā
181	ā Ē
182 183	<u> </u>
184	T E
	i
185 186	Ū
187	U U
188	
189	ù
190	Č
191	Š
192	Ç

O-d-	Ohawaataw
Code	Character
193	i
194	l G
195	Ş
196	Ģ
197	ġ
198	Ķ
199	ķ
200	<u>}</u>
201	Ļ Į Ž
202	
203	Ð
204	đ
205	Ć
206	ć
207	€
208	P
209	ě
210	
211	š
212	č
213	ž
214	ý
215	ů ¥
216	ň
217	~
218	ř
219	*
224 225	* §
	Ø Ø
226 227	^
	1
228	
229]
230] "
231 232	ä
233	Ö
234	ü
235	æ
236	å
237	É
238	ñ
253	*(DC)

*(DC): Double-size character code

: The shaded character cannot be displayed (displayed as space).

090

Note

The character "!!" (code 128) cannot be displayed (displayed as "!").

BASIC FUNCTION PROGRAMMING

(For Quick Start)

1 Date and Time Programming

Date

For setting the date, enter the date in 8 digits using the day-month-year (DD/MM/YYYY) format, then press the #\| key.

Procedure



26082003 # (26 Aug., 2003)



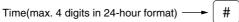
Note

You can use the date format of month-day-year (MM/DD/YYYY) or year-month-day (YYYY/MM/DD) format. To change the format, refer to "Various Function Selection Programming 1" section (Job code 61).

Time

For setting the time, enter the time in 4 digits using the 24-hour format. For example, when the time is set to 2:30 AM, enter 230; and when it is set to 2:30 PM, enter 1430.

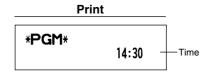
Procedure



Time(max. 4 digits in 24-nour format)

Key operation example

1430 #



Note

In the display, current time is displayed in 24-hour format. If you want to display time in the 12-hour format, refer to "Various Function Selection Programming 1" section (Job code 61).

2 Tax Programming

If you program the VAT/tax, the cash register can calculate the sales tax. In the VAT system, the tax is included in the price you enter in the register, and the tax amount is calculated when tendered according to the VAT rate programmed. In the tax system, the tax is calculated when tendered according to the tax rate programmed, and added to the price. The cash register can provide totally 6 kinds of VAT/tax systems (automatic VAT1-4, automatic tax 1-4, manual VAT 1-4, manual VAT 1, manual tax 1-4, and automatic VAT1 and automatic tax 2-4 systems) and 4 kinds of rates. By default, the cash register is pre-programmed as automatic VAT1-4 system.

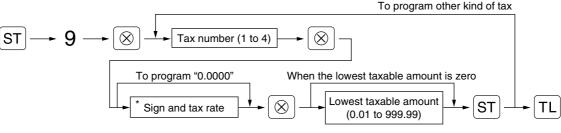
When you program tax rate(s) and taxable status for each department (by default, VAT1/tax1 is set to taxable.), tax will be automatically added to sales of items assigned to the department according to the programmed tax status for the department and the corresponding tax rate(s).

For details of the tax systems, refer to "Computation of VAT (Value Added Tax)/tax" section on page 20. To change the tax system, please refer "Other programming" of "Various Function Selection Programming 1" section (Job code 69) on page 55.

■ Tax rate programming

The percent rate specified here is used for tax calculation on taxable subtotals.

Procedure



*Sign and tax rate: X YYY.YYYY Tax rate=0.0000 to 100.0000 Sign -/+ = 1/0

For entering tax number, sign and tax rate and lowest taxable amount, the register displays guidance messages, ENTER TAX NO., ENTER TAX RATE, and ENTER LOWER TAX respectively.



Note

- The lowest taxable amount is valid only when you select add on tax system. If you select VAT (Value added system), it is ignored.
- If you make an incorrect entry before pressing the third \circledcirc key in programming a tax rate, cancel it with the \complement L key.
- 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.
- If you select VAT system, the sign which you program is ignored.

To delete a tax rate, use the following sequence:

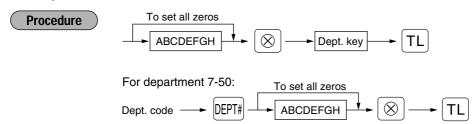


AUXILIARY FUNCTION PROGRAMMING

1 Department Programming

Merchandise can be classified into a maximum of 50 departments. Items sold using the department keys can later be printed on a report shown as the quantities sold and sales amounts classified by department. The data is useful for making purchasing decisions and other store operations.

Department status



To program another department, start from the beginning without pressing the TL key.

Item	1:	Selection:	Entry:	
Α	VAT 4 or tax 4 status	Taxable	1	
		Non-taxable*	0	
В	VAT 3 or tax 3 status	Taxable	1	
		Non-taxable*	0	
С	VAT 2 or tax 2 status	Taxable	1	
		Non-taxable*	0	
D	VAT 1 or tax 1 status	Taxable*	1	
		Non-taxable	0	
E	SICS / Normal	SICS	1	
		Normal*	0	
F	Sign	Negative department	1	
		Positive department*	0	
G	Entry digit limit		0-8 (default:8)	
Н	Type of unit price entry	Open and preset	3	
		Preset only	2	
		Open only*	1	
		Inhibit department key	0	

VAT/tax status (taxable 1 through 4 / non-taxable)

• When any entry of a taxable department is made in a transaction, tax is automatically computed according to the associated tax rate as soon as the transaction is completed.

By default, VAT 1 is assigned for all departments.

SICS (Single Item Cash Sale)

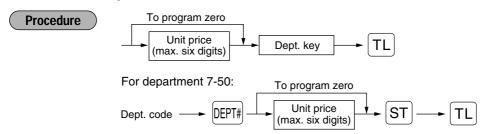
• If an entry of a department programmed for SICS is made first, the sale will be finalized as a cash sale as soon as the department key is pressed. If the entry is made after entering a department not programmed for SICS, the sale will not be finalized until the TL key is pressed.

Entry digit limit

• Set the number of allowable digits for the maximum entry amount for each department. The limit is effective for operations in the REG mode and can be overridden in the MGR mode.



Preset unit price



To program another department, start from the beginning without pressing the TL key.



Note

If a department is not programmed to allow the entry of preset unit prices in functional programming, the department is automatically changed to allow the entry of preset unit prices by this programming entry.

2 PLU (Price Look-Up) and Subdepartment Programming

The PLU function allows speedy key entries whereby a price is automatically called up when a direct PLU key is pressed or a code is entered. The subdepartment is a kind of "open PLU", which requires you to enter a price before the direct PLU key is pressed or after the PLU code is entered. A maximum of 1200 PLU/subdepartment settings are possible. Each one belongs to a department and acquires the department's parameters (tax status, sign, SICS and entry digit limit).

By default, PLU/subdepartment setting for 1 through 210 codes are available and they are assigned as positive PLUs associated with department 1 and preset unit price "0".

To extend the number of PLUs/subdepartments, please refer to "EJ memory type" on page 57.

■ Direct PLU key programming (For PLU code 1 to 210)

Your machine provides 70 direct PLU keys ($_{1}$ through $_{70}$), and three PLU level shift keys ($_{L1}$ $_{L2}$ $_{L3}$) to provide three levels for each direct PLU key. PLU codes 1 though 70 are allocated for level 1, PLU codes 71 thought 140 for level 2 and PLU codes 141 through 210 for level 3. For example, for $_{1}$ key, PLU1 for level 1, PLU 71 for level 2 and PLU 141 for level 3 are assigned.

 For easier programming for the direct PLU keys, the register especially allows you to program all parameters in one procedure according to guidance messages displayed on the upper line of operator display, while you can program parameters individually. (For these individual programming methods, please refer to next two sections and "PLU text (item label)" on page 44.)

Follow the procedure shown below for direct key programming:

Procedure

Note

- To keep current setting on each programming, press the ST key when the corresponding guidance message is firstly displayed.
- When pressing the TL key in the middle of procedure, the programming will terminate and the data you entered before the press of TL is saved.

Key operation

Operator display

1. Specify the direct PLU key and its level.

 Press a level shift key and a direct PLU key in this order.

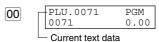
Immediately after displaying the current text setting, guidance message for the next step will be displayed on the upper line and the corresponding PLU key code you entered will be displayed on the lower line.

When you press a direct PLU key without pressing a level shift key, level 1 is automatically selected.

PLU.0071 PGM 0071 0.00 | ENTER [00] KEY 0071 0.00 | | Guidance message PLU code

2. Text programming (Press st to skip)

- Press 00 key to enter text programming.
 The text data currently set will be displayed on the upper line.
- Enter an item name.
 A maximum of 16 characters can be entered.
 Please refer to "Guidance for text programming" for entering the item name.
 When you start entering a character, the current text
- Press the ST key to register the item name. Guidance message for the next step will be displayed.



MELON PGM 0071 05

Overwritten by new data

ST PRICE 0071 0.00

3. Unit price programming (Press ST to skip)

data will be overwritten by new data.

- Enter a unit price using numeric keys.
 A maximum of 6 digits can be set.
 For a subdepartment, set the limit amount of unit price entry.
- Press the ST key to register the unit price.
 Guidance message for the next step will be displayed.

PRICE 0071 500

ENTER DEPT# 01

4. Associated dept. programming (Press ST to skip)

- Enter a associated dept. code using numeric key.
 For dept. 1 through 6, you may press the corresponding department key.
- \bullet Press the $\boxed{\text{ST}}$ key to register the associated dept. code.

Guidance message for the next step will be displayed.

- 1 ENTER DEPT# 0071 1
- ENTER PLU TYPE 0071 1

5. Function programming (Press ST to skip)

- Press 1 when using the PLU code as PLU, or 0 when using as subdepartment.
- Press the ST key to register the setting.
 The PLU code is automatically incremented for a new direct PLU key programming, and ready for text programming for the incremented PLU code.

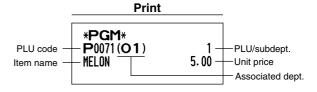
1 ENTER PLU TYPE 0071 1

ENTER[00] KEY 0.00

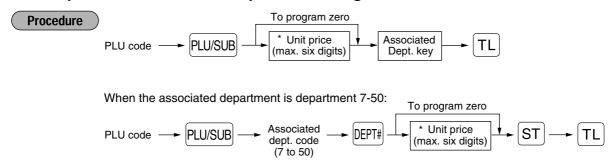
To program for the incremented PLU code, return to the step 2. When you want to program for other than incremented PLU code, return to the step 1.

6. Terminate programming

 Press the TL key to terminate direct PLU key programming. PGM 0.00



■ Unit price and associated department assignment



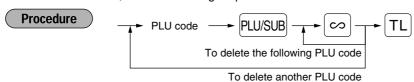
*: For a subdepartment, set the limit amount of unit price entry.

To program the following PLU code, start from entering a unit price or an associated department code without pressing the TL key.

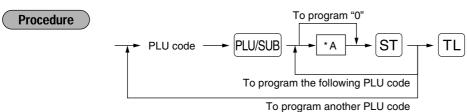
To program another PLU code, start from the beginning without pressing the TL key.



To delete a PLU code, use the following sequence:



■ PLU/subdepartment selection



*A: 0 for subdepartment or 1 for PLU

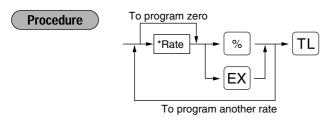


When you program the last PLU code, the programming sequence will be complete with a press of the ST key.

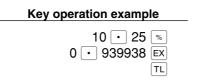
3 Miscellaneous Key Programming

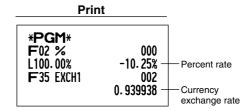
The cash register provides miscellaneous keys such as [%], [O], [RA], [PO], [EX], [CH1], [CH2], [CR1], [CR2] and [TL].

■ Rate for % and EX



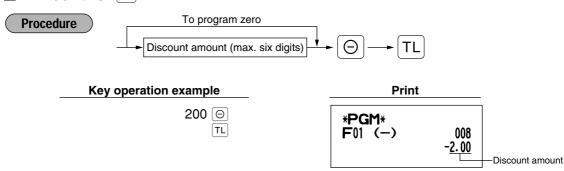
*: Rate 0.00 — 100.00 (% rate) 0.000000 — 999.999999 (Currency exchange rate)





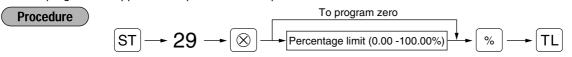
Note You must use a decimal point when setting fractional rates.

■ Amount for \bigcirc



■ Percent rate limitation for %

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

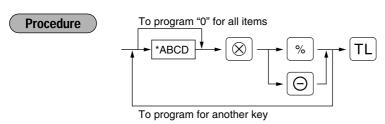


Note

- Percent entries that exceed the upper limit may be overridden in the MGR mode.
- You must use a decimal point when setting fractional rate.



■ Function parameters for [%] and [⊙]



: <u>lte</u>	em:	Selection:	Entry:	
Α	+/- sign	+ (premium) sign	0	
		- (discount) sign*	1	
В	Item % / Item ⊙	Allow*	0	
		Disallow	1	
С	Subtotal % / Subtotal ⊙	Allow*	0	
		Disallow	1	
D	Entry digit limit for discount key		0-8 (default:8)	

When programming for percent key, always enter 0 for D.

+/- sign

*:

• Programming of the +/- sign assigns the premium or discount function for each key.

Item % / Item ⊝

• Percent/discount calculation for the individual department and PLU/subdepartment

Subtotal % / Subtotal ⊙

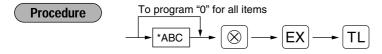
· Percent/discount calculation for the subtotals

Entry digit limit (For discount key only)

• The entry digit limit is in effect for the REG mode operations but can be overridden in the MGR mode. The entry digit limit is represented by the number of allowable digit for the maximum entry amount for discount key. When "0" is set, open price entry is prohibited.



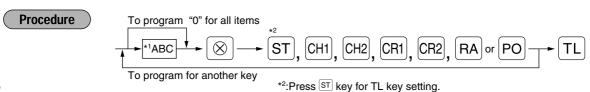
■ Function parameters for EX



Item	:	Selection:	Entry:
Α	Open rate entry	Allow*	0
		Disallow	1
В	Preset rate entry	Allow*	0
		Disallow	1
С	Position of decimal point (from right) (tab)		0-3 (default:2)



■ Function parameters for RA, PO, CH1, CH2, CR1, CR2 and TL



1: <u>ltem</u>	ı :	Selection:	Entry:	
Α	Footer printing*	Allow	1	
		Disallow*	0	
В	Amount tendered entry*	Compulsory	1	
		Non-compulsory (for CH1), CH2 a	nd TL)* 0	
		Inhibit (for CR1 and CR2)*	0	
С	Entry digit limit	For CH1, CH2, CR1, CR2 and TL	0-8 (default:8)	
		For RA and PO	0-9 (default:9)	

^{*}When programming for RA or PO, always enter 0 for A and B.

Footer printing (only for CH1, CH2, CR1, CR2 and TL)

• This programming decides whether or not the machine should print a message at the foot of a receipt when a specified media key is used. With regard to programming method of footer logo message, refer to "Logo messages" section on page 46.

Amount tendered entry (only for CH1), CH2, CR1, CR2 and TL)

- You may select amount tendered, compulsory or optional, for the TL, CH1 and CH2 keys.
- You may select amount tendered, compulsory or inhibited, for the CR1 and CR2 keys.

Entry digit limit

• For the CH1, CH2, CR1, CR2, RA and PO keys program upper limit entry amount for the tendered amount. For the TL key, program upper limit entry for total cash amount which can be handled on the register. The entry digit limit is in effect for REG mode operation but can be overridden in the MGR mode. The entry digit limit is represented by the number of allowable digits for the maximum entry or total amount. When "0" is set, the operation of the corresponding key is prohibited.

Key operation example 018 ⊗ CHI TL *PGM* F31 CHECK1 018 From left, ABC

4 Text Programming

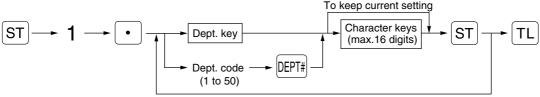
The register allows you to program texts for department item names, PLU/subdepartment item names, function texts, clerk names, logo messages, foreign and domestic currency symbols, and training mode texts. Please refer to "Guidance for text programming" on page 31 as for how to entering characters.

When you press an appropriate number key (job code number) and press the \bullet key for text entry just after you start programming with the $\boxed{\mathtt{ST}}$ key, the cash register will automatically be ready for text entry.

Then a little after displaying guidance message indicating what programming you are in, the register may ask you to enter the first parameter, such as dept. code. Referring to the corresponding "Procedure", enter a parameter and start character entries.

■ Department text (item label) (16 digits)

Procedure

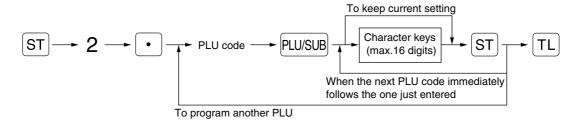


To program another dept.



■ PLU text (item label) (16 digits)

Procedure

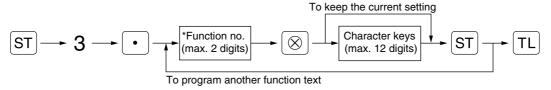




(Programming APPLE to PLU3)

■ Function text (12 digits)

Procedure



Function no.: See "List of function texts" shown on the next page.



(Programming CARD1 for credit 1)

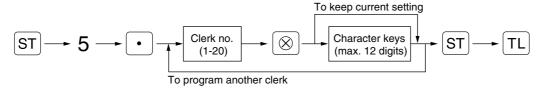
■ List of function texts

Function no.	Key or function	Default setting
1	Θ	(-)
2	%	%
3	Differ	DIFFER
4	Taxable 1 subtotal	TAX1 ST
5	Taxable 2 subtotal	TAX2 ST
6	Taxable 3 subtotal	TAX3 ST
7	Taxable 4 subtotal	TAX4 ST
8	VAT/tax 1	VAT 1
9	VAT/tax 2	VAT 2
10	VAT/tax 3	VAT 3
11	VAT/tax 4	VAT 4
12	Net 1	NET1
13	Net 2	NET2
14	Refund	REFUND
15	Void	\sim
16	Void mode total	MODE
17	Manager void	MGR ∽
18	Subtotal void	SBTL ∽
19	Bill counter	BILL CNT
20	No sale	NO SALE
21	Previous balance	***PBAL
22	New balance	***NBAL
23	Customer	GUEST
24	Order total	ORDER TL
25	Paid total	PAID TL
26	Average	AVE.
27	Order total – paid total	O-P
28	RA	***RA
29	PO	***PO
30	Cash	CASH
31	Cheque 1	CHECK1
32	Cheque 2	CHECK2
33	Credit 1	CREDIT1
34	Credit 2	CREDIT2
35	Exchange (Preset rate)	EXCH1
36	Exchange (Open rate)	EXCH2
37	Exchange cheque	EX1 CHK
38	Exchange credit	EX1 CR
39	Cash in drawer	**** CID

Function no.	Key or function	Default setting
40	Cash/cheque in drawer	CA/CH ID
41	Change for cheque	CHK/CG
42	Domestic currency 1	DOM.CUR1
43	Domestic currency 2	DOM.CUR2
44	Dom. currency for EX cheque	DOM.CUR1
45	Dom. currency for EX credit	DOM.CUR1
46	Cheque in drawer	*CH ID
47	(+) Dept total	*DEPT TL
48	(-) Dept total	DEPT (-)
49	Net 1 (Taxable 1 - VAT/tax 1)	NET 1
50	Net 2 (Taxable 2 - VAT/tax 2)	NET 2
51	Net 3 (Taxable 3 - VAT/tax 3)	NET 3
52	Net 4 (Taxable 4 - VAT/tax 4)	NET 4
53	Subtotal	SUBTOTAL
54	Merchandise subtotal	MDSE ST
55	Total	*** TOTAL
56	Change	CHANGE
57	Sales q'ty	ITEMS
58	Due	DUE
59	Exchange (Preset rate) change	EX1 CHG
60	Amount	AMOUNT
61	Total tax	TTL TAX
62	Old balance	OLD BAL.
63	New balance	BALANCE
64	Net without tax (on report)	NET
65	Department report title	DEPT
66	PLU report title	PLU
67	Transaction report title	TRANS.
68	Clerk report title	CLERK
69	Hourly report title	HOURLY
70	GLU report title	GLU
71	GLU code	GLU#
72	Balance report title	BALANCE
73	Non add symbol (8 chara.)	#
74	Copy receipt title	COPY
75	Guest check receipt title	BILL
76	EJ report title	EJ
77	EJ report end title	EJ END
	1	

■ Clerk names (12 digits)

Procedure

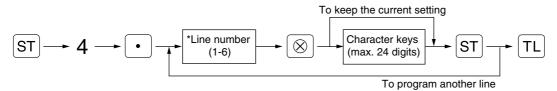




■ Logo messages (6 lines and 24 digits for each line)

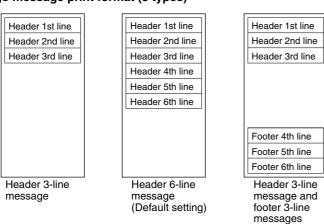
The register can print programmed messages on every receipt. On the standard model, a 6-line logo message is printed on the receipt. If you want to print in other logo message format, please change the format. (See page 56 for the programming details.) The options are listed below:

Procedure

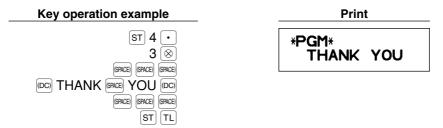


- * "Header 3-line message" type: 1 to 3
 - "Header 6-line message" type: 1 to 6
 - "Header 3-line and footer 3-line message" type: 1 to 6 (1 to 3 as header, 4 to 6 as footer)

Logo message print format (3 types)



To print the logo message "THANK YOU" using double sized characters and centering on the third line.

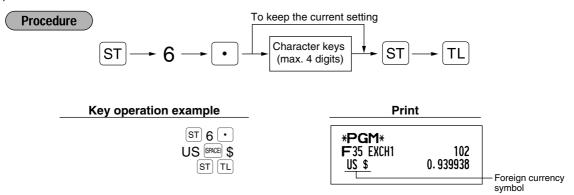


Note

A 6-line logo message is preprogrammed when shipped. Please start entering from the first line when you first program a logo message.

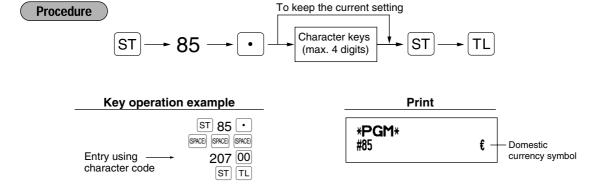
■ Foreign currency symbol (4 digits)

Foreign currency symbol for the EX key is printed with a foreign currency exchange amount obtained using a preset rate.



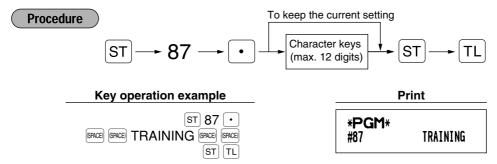
■ Domestic currency symbol (4 digits)

"*" is set as a default setting. When you want to change the domestic currency symbol, change the setting.



■ Training mode text (12 digits)

For every receipts issued in the training mode, **TRAINING** is printed by default. When you want to change the text, follow the procedure below.



Note

The programmed text is printed in double-size characters on the receipts issued in the training mode.

ADVANCED FUNCTION PROGRAMMING

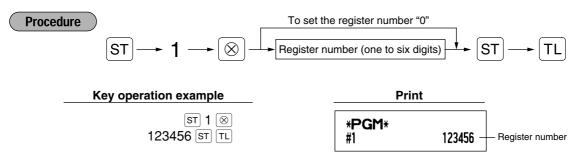
1 Register Number and Consecutive Number Programming

The register number and consecutive numbers are printed on every receipt or journal.

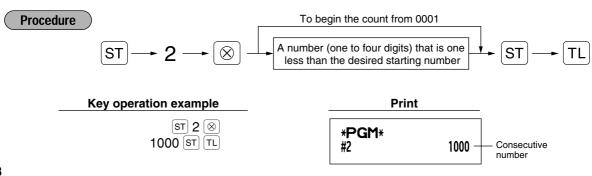
When your store has two or more registers, it is practical to set separate register numbers for identification. The consecutive number is increased by one each time a receipt is issued or when a journal print occurs.

For consecutive number programming, enter a number (max. 4 digits) that is one less than the desired starting number.

Register number



Consecutive number

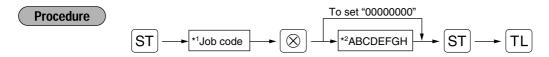


2 Various Function Selection Programming 1

The cash register provides various detailed functions listed below.

- Function selection for miscellaneous keys
- · Print format
- · Receipt print format
- · PLU level shift and GLU function parameters
- Others

For this programming, the job code entry style is applied. You can continue programming until you press the TL key for the programming described in this section. To continue programming, repeat from a job code entry.



- *1 Enter job code using numeric keys specified in each section below.
- *2 Data entry details are listed on each table in each section below. An asterisk is entered for factory setting.

Example: When programming for job code 5 as ABCDEFGH: 00000100.



■ Function selection for miscellaneous keys

Item:		Selection:	Entry:	
A	Paid-out in the REG mode	Enable*	0	
		Disable	1	
В	Received on account in the REG mode	Enable*	0	
		Disable	1	
С	Subtotal void in the REG mode	Enable*	0	
		Disable	1	
D	Indirect void in the REG mode	Enable*	0	
		Disable	1	
Е	Direct void in the REG mode	Enable*	0	
		Disable	1	
F	Refund entry in the REG mode	Enable*	0	
		Disable	1	
G	No sale in the REG mode	Enable*	0	
		Disable	1	
Н	Fractional quantity entry	Enable (3 digits decimal place)	0	
	•	Disable*	1	

■ Print format

Job code: 6

Item	n:	Selection:	Entry:	
A	Printing style	Journal printing	0	
		Receipt*	1	
В	Receipt print style	Total	0	
		Detailed*	1	
С	Time print on all receipts	Yes*	0	
		No	1	
D	Date print on all receipts	Yes*	0	
		No	1	
E	Consecutive no. print	Yes*	0	
		No	1	
F	Separator line in reports	One line space	0	
		Separator line*	1	
G	Zero skip in PLU report	No	0	
		Yes*	1	
Н	Zero skip in full sales/clerk/hourly reports	No	0	
		Yes*	1	

Printing style

• Even when receipt printing is selected, the journal rewind motor will be driven in PGM, OP X/Z, X1/Z1 and X2/Z2 modes so you can wind sales and programming reports.

■ Receipt print format

Item:		Selection:	Entry:
A	Always enter 0.		0
В	Always enter 0.		0
С	Subtotal print with a press of subtotal key	No*	0
		Yes	1
D	Always enter 0.		0
E	VAT/tax amount print	Yes*	0
		No	1
F	Taxable amount print	Yes*	0
	·	No	1
G	Net amount print	Yes*	0
	•	No	1
Н	Purchase no. print	Yes*	0
	•	No	1

■ PLU level shift and GLU function parameters

Job code: 15

Item:		Selection:	Entry:	
A	PLU level shift mode	Automatic return mode*	0	
		Lock shift mode	1	
В	PLU level shift operation availability	Available in MGR & REG modes*	0	
		Available in MGR mode	1	
С	PLU level shift timing for returning to	1 item*	0	
	level 1 in automatic return mode	1 transaction	1	
D	Checking clerk code on guest check	Yes	0	
	when a reorder is made	No*	1	
E	Printing of previous and new balances on	Yes	0	
	G.C. receipt	No*	1	
F	Clearing details in GLU buffer at a press	No*	0	
	of NBAL	Yes	1	
G	Clearing details in GLU buffer at a press	No	0	
	of GC RCPT	Yes*	1	
Н	Always enter 0.		0	

■ Other programming

Note

As the guidance messages for other programming, "OTHERS + the lower digit number of job code" is displayed. For example, for job code 61, "OTHERS 1" is displayed as the guidance message.

Item:		Selection:	Entry:
A	Always enter 0.		0
В	Always enter 0.		0
С	Negative dept. and PLU/subdept.	Disable	0
		Enable*	1
D	Fractional treatment	Round off (4 down, 5 up)*	0
		Raising to unit	1
		Disregarding fractional treatment	2
Е	Use of 00 key	As 00 key*	0
		As 000 key	1
F	Time format	12-hour format	0
		24-hour format*	1
G	Date format	Use month-day-year format	0
		Use day-month-year format*	1
		Use year-month-day format	2
Н	Position of decimal point (from right) (TAB)		0 to 3 (default: 2)

Job code: 62

Item:		Selection:	Entry:	
Α	Always enter 0.		0	
В	Error beep for misoperation	Lock error	0	
		Misoperation*	1	
С	Key catch sound	Yes*	0	
		No	1	
D	Buffered keyboard	Yes*	0	
		No	1	
E	Void mode	Enable*	0	
		Disable	1	
F	Printing of void mode in X2/Z2 report	Yes*	0	
		No	1	
G	Printing of void mode in X1/Z1 report	Yes*	0	
		No	1	
Н	Addition to the hourly total in VOID mode	No*	0	
		Yes	1	

Job code: 63

Item:		Selection:	Entry:	
A	Receipting at the time of "no sale" entry	Yes*	0	
		No	1	
В	No sale after non-add code entry	Disable	0	
		Enable*	1	
С	Non-add code entry	Enable*	0	
		Disable	1	
D	Copy receipt	No*	0	
		Yes	1	
E	Entry that causes the merchandise	Enable*	0	
	subtotal to be smaller than zero	Disable	1	
F	Subtotal entry before tendering	Noncompulsory*	0	
		Compulsory	1	
G	Subtotal entry before direct non-tender	Noncompulsory*	0	
	finalization	Compulsory	1	
Н	Direct non-tender finalization after	Disable	0	
	tendering	Enable*	1	

Item:		Selection:	Entry:
A	Printing of GT1 on Z report	Yes*	0
		No	1
В	Printing of GT2 on Z report	Yes*	0
		No	1
С	Printing of GT3 on Z report	Yes*	0
		No	1
D	Printing of Training GT on Z report	Yes*	0
		No	1
E	Printing of Z counter on Z report	Yes*	0
		No	1
F	Printing of DATA on PLU resetting report	Yes*	0
		No	1
G	Resetting of GT1, 2, 3 at the general Z1	No*	0
	report	Yes	1
Н	OP X/Z report	Enable*	0
		Disable	1

Job code: 65

' <u>l</u> t	tem:		Selection:	Entry:	
A	4	Printing of balance GT on Z report	Yes	0	
			No*	1	
Е	3	Resetting of balance GT at the general	No*	0	
		Z1 report	Yes	1	
C	C to H	Always enter 0.		0	

Job code: 66

Item:		Selection:	Entry:
A	After transaction receipt	Total only	0
		Details*	1
В	Amount printing when PLU unit price	No*	0
	is zero	Yes	1
С	Conversion SBTL printing of native SBTL	Yes*	0
		No	1
D	VAT/tax assignment print	Yes	0
		No*	1
E	Compression print on journal at PGM,	No (normal size)	0
	X1/Z1 and X2/Z2 modes	Yes (small size)*	1
F	Compression print on journal at REG,	No (normal size)	0
	MGR and VOID modes	Yes (small size)*	1
G	Logo text print on journal	No*	0
		Yes	1
Н	Footer print control	All receipts*	0
		Only on selected function key at the time of finalization	1

Compression print on journal

• This selection is valid when "printing style" (job code 6) is set to "journal printing".

Item:		Selection:	Entry:
A	Rounding amount printing	No*	0
		Yes (for Australian system)	1
В	Total amount rounding when a transaction	Rounding*	0
	is finalized directly by CH1, CH2, CR1 or CR2 key	Not rounding (for Australian sys	stem) 1
С	Rounding up of the unit digit of amount		0 - 9 (default: 0)
D	Rounding down of the unit digit of amount		0 - 9 (default: 0)
Е	Application of rounding	Item and payment*	0
		Payment	1
F	Limit of the least significant digit in	Arbitrary*	0
	entering amount of item	0 only	1
		0 and 5 only	2
G	Memory of difference due to rounding	No*	0
		Yes	1
Н	Limit of the least significant digit in	Arbitrary*	0
	entering amount of payment	0 only	1
		0 and 5 only	2

Rounding amount printing (A)

Total amount rounding when a transaction is finalized directly by CH1, CH2, CR1 or CR2 key(B)

• When you live in Australia, set as shown on the tale below for the parameters A and B.

Rounding up of the unit digit of amount (C)

Rounding down of the unit digit of amount (D)

• Handle C and D as a pair. When you live in Australia, Switzerland, Norway or South Africa, set as shown on the table below for the parameters C and D.

The rounding is performed as follows:

In case C = 0: Unit digit of amount < or = Value of D — rounding down

Value of D < or = Unit digit of amount — rounding to 5

In other cases: Unit digit of amount < or = Value of D — rounding down

Value of D < Unit digit of amount < Value of C — rounding to 5

Value of C < or = Unit digit of amount — rounding up

Application of rounding (E)

Limit of the least significant digit in entering amount of item (F)

Memory of difference due to rounding (G)

Limit of the least significant digit in entering amount of payment (H)

 When you live in Australia, Switzerland, Norway or South Africa, set as shown on the table below for the parameters E through H.

	CD	E	F	G	Н
Switzerland	82	Item & payment	0 and 5 only	No	0 and 5 only
Norway	54	Payment	Arbitrary	Yes	0 only
South Africa	05	Payment	Arbitrary	Yes	0 and 5 only

	Α	В	CD	E	F	G	Н	
Australia	Yes	Not rounding	82	Payment*	Arbitrary	Yes	0 and 5 only	

^{*} Applied to payment by cash and change amount.

Item:		Selection:	Entry:
Α	Always enter 0.		0
В	GLU code automatic generation	Enable*	0
		Disable	1
С	Temporary EJ printing during a transaction	Disable	0
		Enable*	1
D	EJ printing and clearing EJ data when	No*	0
	issuing general Z1 report	Yes	1
E	PGM mode operation records type	Details*	0
		Header information only	1
F	REG/MGR/VOID modes operation	Details*	0
	records type	Total	1
G	Compressing printing for EJ data	No (normal size)	0
		Yes (small size)*	1
Н	Action when EJ memory area is full	Continue	0
		Continue and warning (near full warning)	* 1
		Lock and warning (with near full warning)	2

Temporary EJ printing during a transaction

• If selecting "enable", you can print journal data of a current transaction recorded in EJ memory by pressing the Repair key during the transaction. To realize this function completely, the cash register must be programmed to print the receipt and set the Receipt ON/OFF function to OFF.

PGM mode operation records type

• The header information only is printed during the program reading operation. The header information only is printed for X/Z reports.

(Receipt sample for Header Information only)

26/08/2003 14:08 01 123456#0419 DAVID *** 1 * ** DEPT * **TRANS *

Action when EJ memory area is full

• By default, when the memory for EJ becomes nearly full, the cash register shows "N" at the 14th position of the display (EJ memory nearly full message), and the cash register keeps storing new data while erasing the oldest data. When "0" is selected, the cash register will no longer show EJ memory nearly full message. When "2" is selected, the cash register shows EJ memory nearly full message and when the memory is totally full, the cash register locks the sales/data entry with a display of the memory full message "EJ DATA FULL". You must issue an EJ report (Z1 report) at this time.

Job code: 69

Item:		Selection:	Entry:	
A	G.C. receipt (bill) print on journal	No*	0	
		Yes	1	
В	Always enter 0.		0	
С	Always enter 1.		1	
D	Rounding of foreign currency for EX	Rising to unit*	0	
		Round off (4 down/5 up)	1	
E	Tax system	Auto tax 1-4	0	
		Auto VAT 1-4*	1	
		Manual VAT 1-4	2	
		Manual VAT 1	3	
		Manual tax 1-4	4	
		Auto VAT 1 & Auto tax 2-4	5	
F	Tax print when taxable subtotal is zero	No*	0	
		Yes	1	
G	Tax print when tax is zero	Yes*	0	
		No	1	
Н	Rounding system	Normal*	0	
		Sweden	1	
		Denmark	2	

Rounding system

When you live in Sweden or Denmark, change the default setting (H=0) to the corresponding setting.

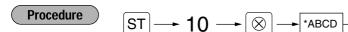
3 Various Function Selection Programming 2

The cash register provides various options so you can use the register to suit your sales needs.

In this section, you can program the following features (parameters within parentheses indicates default setting):

- Power save mode (entering the power save mode after 30 minutes)
- Logo message print format (Header 6-line message)
- Thermal printer density (standard density)
- · Language selection (English)
- EJ memory type (EJ 9000 records and PLU 210 codes)
- Training clerk specification (none) If you specify a clerk number who is trained for use on this cash register, the cash register will go into training mode when the clerk is signed on for sales entries. The sales operations done by the trained clerk do not affect sales totals. For details, refer to TRAINING MODE section.

■ Power save mode



*	Item:		Selection:	Entry:
	Α	Entering power save mode	Yes*	0
		when time is displayed	No	1
	B-D	Time(min.) to entering power save mode		001-254 or 999
		since no operation is made		(Default 030)

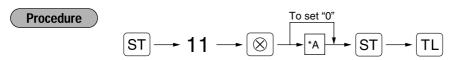
Note

When 999 is set for B to D, entering into power save mode is inhibited.



■ Logo message print format

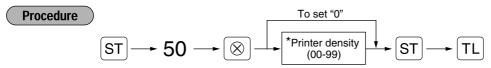
You can select the number of lines for your logo message, and the position to print it on receipt. For details of the logo message type, please refer to "Logo messages" on page 46.



- *A: Logo message type
 - 0: Header 3-line message without graphic logo
 - 3: Header 6-line message (default)
 - 5: Header 3-line message and footer 3-line message



■ Thermal printer density



* 50 (100%) is the default setting. To make the print darker, set a larger number, and to make the print lighter, set a smaller number.



■ Language selection



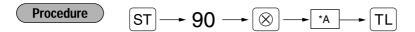
*Language: 0: English 1: German 2: French 3: Spanish By default, English is set.



When you change the language, the texts such as clerk names, logo messages and function texts (refer to page 45), which you programmed, will be reset to the default settings. The language selection must be made before programming clerk names, logo messages and function texts.

■ EJ memory type

Caution When this procedure is executed, EJ data is cleared, and PLU data (programming data and sales data) are reset to the default after all data is cleared even if the same memory type is selected.

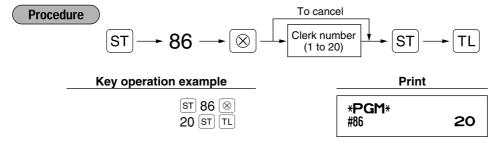


*A: 0 for EJ 8000 lines and PLU 1200 codes 1 for EJ 9000 lines and PLU 210 codes (default)



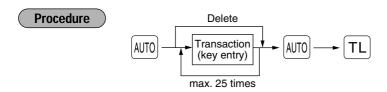
■ Training clerk specification for training mode

For the details of clerk training, please refer to "TRAINING MODE" on page 63.

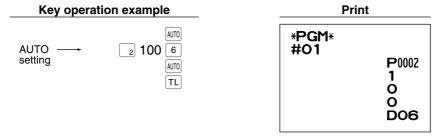


■ AUTO key programming — Automatic sequence key

If you program frequently performed transactions or report sequences for the woo key, you can recall those transactions and/or reports simply by pressing the woo key in key operations.



Programming for AUTO; entering a PLU 2 item and a dept. 6 item (unit price: 1.00)



Note

When the AUTO key has been programmed to execute a report job function, the mode switch must be in the appropriate position (OPX/Z for individual clerk reports, X1/Z1 for daily reports or X2/Z2 for weekly or monthly reports).

4 EURO Programming

For details of EURO migration operation, please refer to "EURO MIGRATION FUNCTION".

■ EURO system settings



tem	:	Selection:	Entry:	
Α	Printing exchange total amount and	No*	0	
	change amount on receipt or journal	Yes	1	
В	Always enter 0.		0	
С	Cheque and credit operation when	No*	0	
	tendering in foreign currency	Yes	1	
D	Exchange calculation method	Multiplication*	0	
		Division	1	

Printing exchange total amount and change amount on receipt/journal

 Total and change amounts in exchange currency are printed respectively below each of the total and exchange amounts in domestic currency.

Exchange calculation method

• "Division" or "Multiplication" can be selected for the conversion method from domestic currency to exchange currency, and the calculation is performed as follows:

In case that "Division" is selected:

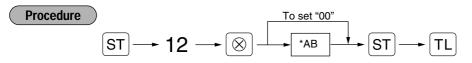
Domestic currency amount ÷ Exchange rate = Exchange amount

In case that "Multiplication" is selected

Domestic currency amount \times Exchange rate = Exchange amount



■ Automatic EURO modification operation settings

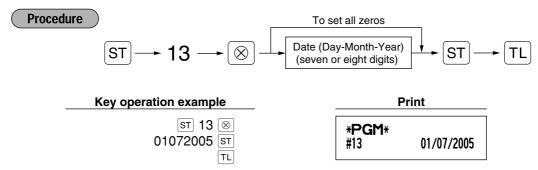


*	Item:		Selection:	Entry:
	Α	Converting the preset unit price of Dept./PLU in the automatic	Yes*	0
		modification operation for EURO (job #800 in the X2/Z2 mode)	No	1
	В	Automatic modification operation for EURO	Compulsory*	0
		(job #800 in the X2/Z2 mode) at the preset date	Non-compulsory	1

Key operation example	Print	
ST 12 (S) 01 (ST) TL	* PGM * #12	01

Note If you have already made the Job #800 operation with the substitution of 3 for "A" in the X2/Z2 mode, this programming is disabled.

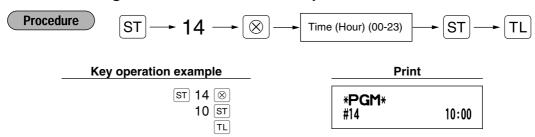
■ Date setting for EURO modification operation



Note

- In case you changed the date format using job code 61, follow the format you selected for setting the date.
- If all zeros are set, this programming is disabled.
- If you have already made the Job #800 operation with the substitution of 3 for "A" in the X2/Z2 mode, this programming is disabled.

■ Time setting for EURO modification operation



Note

• If you have already made the Job #800 operation with the substitution of 3 for "A" in the X2/Z2 mode, this programming is disabled.

5 Reading Stored Programs

The machine allows you to read every program stored in the PGM mode.

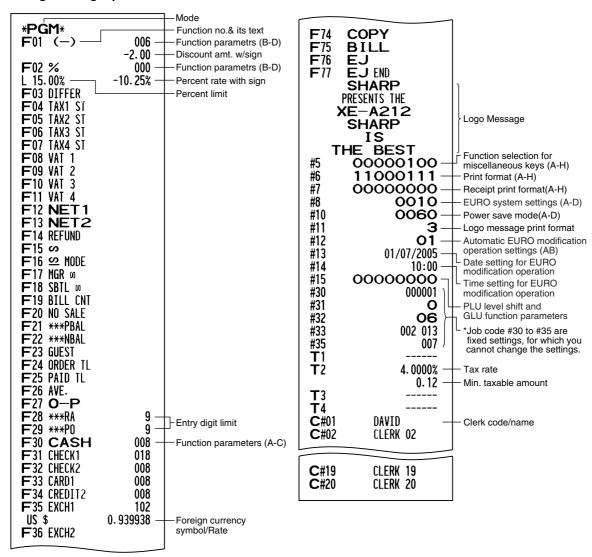
Key sequence for reading stored program

Report name	Key sequence
Programming report 1	TL
Programming report 2	2 → τι
Auto key programming report	1 → ℡
Printer density programming report	3 → TL
Department programming report	4 → TL
PLU programming report	Start PLU code → End PLU code → PLU/SUB

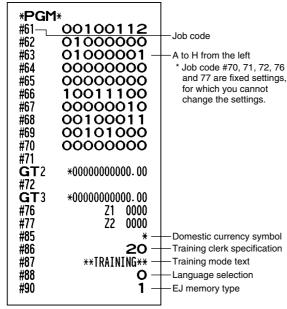
Note To stop reading programming report, turn the mode switch to the MGR position.

■ Sample printouts

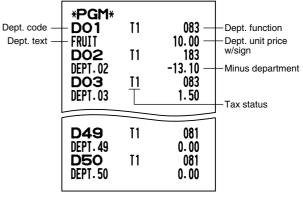
1 Programming report 1



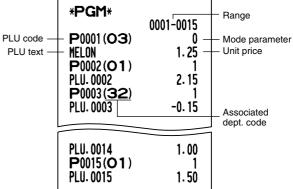
2 Programming report 2



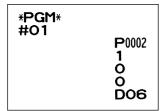
5 Department programming report



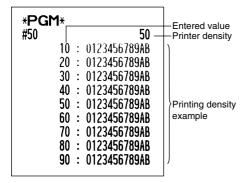
6 PLU programming report



3 Auto key programming report



4 Printer density programming report



TRAINING MODE

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

When a clerk in training is selected, the machine automatically enters the training mode. To specify a clerk to be trained, refer to "Training clerk specification for training mode" in "ADVANCED FUNCTION PROGRAMMING" in page 58.

The training operation is valid only in REG, MGR and om mode.

The corresponding clerk memory is only updated in the training mode.

Print			
06/08/2003 15 123456#1051 0			
TRAINING DEPT. 05 *10.00 3x 24.00 DEPT. 03 *72.00			
ITEMS 4	1Q B2. 00		

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 reset. You can take this reading any number of times. It does not affect the register's memory.
- Use the resetting function (Z) when you need to clear the register's memory. Resetting prints all sales
 information and clears the entire memory except for the GT1 through GT3, Training GT, BAL, reset count, and
 consecutive number.

1 Summary of Reading (X) and Resetting (Z) Reports

X1 and Z1 reports: Daily sales reports

X2 and Z2 reports: Periodic (monthly) consolidation reports

When you take an X or Z report, turn the mode switch to the appropriate position referring to the column of "Mode switch position" shown on the table below, and use the following corresponding key sequence.

Item	Mode switch position		osition	Voy energian		
item	OPX/Z	X/Z X1/Z1 X2/Z2		Key operation		
Flash report: (Only display) To clear the display, press the CL key or turn the mode switch to another position.	X	_	_	Dept. code DEPT# : Department sales total [For dept. 1 to 6: Dept. key (1 to 6)] (
Full sales report	_	X1, Z1	X2, Z2	Reading: TL Resetting: ● TL		
PLU report by designated range	_	X1, Z1	_	Reading: Start PLU code PLU/SUB Resetting: All PLUs Flu/SUB Resetting: All PLUs Flu/SUB		
Individual clerk report	X, Z	_	_	Reading: CLK# Resetting: Output CLK# (The report of the current clerk)		
Full clerk report	_	X1, Z1	_	Reading: CLK# Resetting: ■ ■ CLK#		
Hourly report	_	X1, Z1	_	Reading: ST Resetting: ● ST		
Open GLU report	_	X1, Z1	_	Reading: GLU Resetting: ● → GLU		
Open GLU report by clerk	_	X1, Z1	_	Reading: CR1 Resetting: • CR1 (The report of the current clerk)		
Balance report	_	X1	_	Reading: RA		

Note

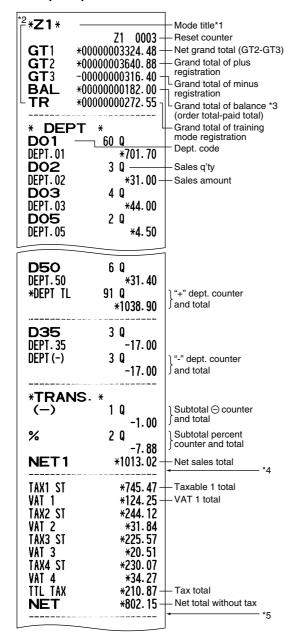
- When both sales quantities and sales amounts are zero, printing is skipped. If you do not want to skip, change the programming. (Refer to "Print format" of "Various Function Selection Programming 1".)
- "X" represents read symbol and "Z" represents reset symbol in the reports.
- To stop reading and resetting the PLU sales report, turn the mode switch to the MGR position. The data will not be erased when you reset.
- The drawer does not open when you take X/Z reports.

 The drawer can be opened by pressing the NS key to remove the till after closing your business.
- When printing is performed continuously, the printing may be intermitted several seconds. After the intermission, the printing will be restarted.

2 Daily Sales Totals

■ Full sales report

Sample report



(—)	2 0	ltem⊝counter and total
%	-1.50 2 Q	Item percent
REFUND	-2.05 1 Q	counter and total Refund counter and total
ω	*12.00 6 Q	BEG-mode void counter
∞ MODE	*64.30 1 Q	and total Void-mode transaction
MGR ω	*20.00 2 Q	counter and total Manager item void counter
SBTL w	*20.00 1 0	and total
	*60.90	Subtotal void counter and total
BILL CNT NO SALE ***PBAL ***NBAL GUEST	5 Q ———————————————————————————————————	Bill(G.C.RCPT) counter No-sales counter PBAL counter NBAL counter Customer counter
ORDER TL PAID TL AVE. O-P ***RA ***P0	*1013.02 - *950.02 - *19.39 - *63.00 - 2 Q *23.00	Order total Paid total Paid total average per customer Order total—Paid total Received on account counter and total
	*48.00	Paid out counter and total
CASH	36 Q *466.82	Cash counter and total
CHECK1	3 Q *92.30	Cheque1 sales counter and total
CHECK2	3 Q *100.00	and total
CREDIT1	2 Q *48.00	Credit1 sale and tendering counter and total
CREDIT2	1 Q *20.00	Counter and total
EXCH1	1 Q US \$100.00	Exchange counter and
DOM. CUR1 Exch2	*106.38 -	total (in preset rate entry) Domestic currency
DOM. CUR2	100.00 *78.42	Exchange manual rate entry counter and total

(To be continued on the next page)

EX1 CHK	1 Q US \$32.90 *35.00	Exchange check (in preset rate entry)
EX1 CR Dom. Cur1	1 Q US \$57.34 *61.00	Exchange credit (in preset rate entry)
****CID *CH ID CA/CH ID CHK/CG	*383.92 - *192.30 - *576.22 - *12.10 -	Cash in drawer Cheque in drawer Cash + cheque in drawer Change total for cheque tendering

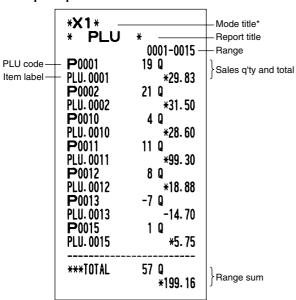
- *1: When you take X1 report, "X1" is printed.
- *2: Printed in the Z1 report only.
- *3: BAL is not printed by default. To print, change the setting on job code 65.
- *4: When "Memory of difference due to rounding" is set to "yes" the following is displayed here.

*5: When manual tax 1-4 system or auto tax 1-4 system is selected, the following is displayed here.

NET2	*1013.02 —	Sales total including tax
------	------------	---------------------------

■ PLU report by designated range

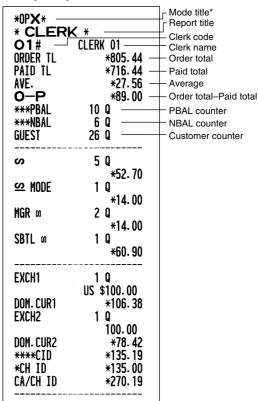
Sample report



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

■ Individual clerk report

Sample report

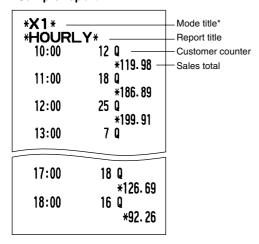


■ Full clerk report

The printout occurs in the same format as in the sample report of individual clerk, but all clerk's sales data and total of all clerks are printed in the order of clerk number (from #1 to #20).

Hourly report

Sample report



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

■ Open GLU report

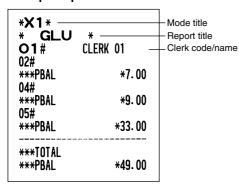
Sample report

X1 —		_ Mode title*
^ I * GLU	*	Report title
02#	["] 01 -	Clerk code
***PBAL	*7.00 –	Previous balance
04#	01	CLLLanda
***PBAL	*9.00	GLU code
05#	01	
***PBAL	*33.00	
10#	02	
***PBAL	*15.00	
12#	02	
***PBAL	*15.00	
***TOTAL	THE THE REAL PROPERTY AND THE PERSON AND THE SERVICE SERVICES.	
***PBAL	*79.00	

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

Open GLU report by clerk

Sample report



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

■ Balance report

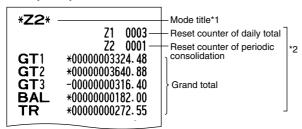
• Sample report

3 Periodic Consolidation

■ Full sales report

1

Sample report



The subsequent printouts are the same in format as in the X1/Z1 full sales report.

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

EJ REPORT READING AND RESETTING

The cash register provides an electronic journal (EJ) function. This function is intended to record the journal data in a memory instead of journal paper, and print the data as an EJ report. The register records the journal data in REG, PGM, 🖾 , X1/Z1 and X2/Z2 modes. By default, a maximum of 9000 lines are stored in the memory. For details of EJ programming, please refer to "Other programming (Job code 68)" on page 54 and "EJ memory type" on page 57.

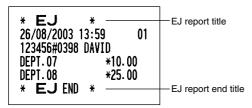
■ Printing journal data on the way of a transaction

You can print journal data of a current transaction recorded in EJ memory by pressing the ROPT key during the transaction.

Note

This function is valid when the printing style is programmed to receipt, and the receipt ON/OFF function is set to OFF.

Sample print



■ Reading and resetting the electronic journal data (Issuing EJ report)

You can read the journal data stored in the EJ memory in the journal format by executing the following procedure in the X1/Z1 or OP X/Z mode.

To read all of the data:

To reset all of the data:

$$700 \rightarrow \bullet \rightarrow \otimes \rightarrow \text{TL}$$

To read the last 10 records:

Note

- To stop reading or resetting the data, turn the mode switch to "MGR" position. The data will not be erased when resetting.
- On the EJ memory, a maximum of 9000 (or 8000, depending on programming) lines of data can be stored. When executing all data reading, all of the data stored in the EJ memory will be printed.
- When printing is performed continuously, the printing may be intermitted several seconds. After the intermission, the printing will be restarted.

Sample EJ report

```
*OPX*

* E_J *
26/08/2003 14:07 01
123456#0412 DAVID
DEPT. 12 *12.50
ITEMS 10
CASH *12.50
26/08/2003 14:07 01
123456#0413 DAVID
DEPT. 07 *2.45
DEPT. 08 *7.85
```

```
26/08/2003 14:08 01
123456#0418 DAVID
###RA #25.00
26/08/2003 14:08 01
123456#0419 DAVID
#X1*

** DEPT *

**TRANS. *
26/08/2003 14:08 01
123456#0420 DAVID
DEPT.10 #12.56
DEPT.15 #12.69
ITEMS 20
CASH *25.25
26/08/2003 14:08 01
123456#0421 DAVID
DEPT.04 #1.25

3× 1.50
DEPT.13 #4.50
ITEMS 40
CASH *50
ITEMS 40
I
```

Header information print

OVERRIDE ENTRIES

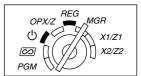
Programmed limit for functions (such as for maximum amounts) can be overridden by making an entry in the MGR mode.

Procedure

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



In this example, the register has been programmed not to allow discounts entries over 1.00.



Key operation example

REG mode 1500 $\boxed{3}$ entries 250 $\boxed{\bigcirc}$...Error

Turn the mode switch to the MGR position.

250 ⊖

Return the mode switch to the REG position.

TL

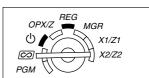
DEPT. 03 *15. 00 (-) -2. 50 ITEMS 1Q CASH *12. 50

Print

CORRECTION AFTER FINALIZING A TRANSACTION (Void mode)

When you need to void incorrect entries that clerks cannot correct (incorrect entries found after finalizing a transaction or cannot be corrected by direct or indirect void), follow this procedure:

- **1.** Turn the mode switch to the position using the manager key (MA), to enter into the void mode.
- **2.** Repeat the entries that are recorded on an incorrect receipt. (All data on the incorrect receipt is removed from register memory; the voided amounts are added to the void mode transaction totalizer.)



Incorrect receipt

DEPT. 04 *10.00 DEPT. 03 *1.50 ITEMS 20 CASH *11.50



Cancellation receipt

*© MODE *
DEPT. 04 *10.00
DEPT. 03 *1.50

ITEMS 20
CASH *11.50

EURO MIGRATION FUNCTION

• EURO programming described in this section are for users in the countries which will join to the members of the European Currency Union, not for the users in the countries already have joined the Union.

Your register can be modified to correspond with each period set for the introduction of EURO, and in your register each currency is treated as shown on the table below depending on which period you are in. Basically your register can be automatically modified to correspond to the introduction of EURO by executing automatic EURO modification operation shown below in the X2/Z2 mode. However, there are several options you must set depending on your needs. So, please carefully conduct necessary settings.

How currencies are treated in your register

		Period 1	Period 2	Period 3
		After the introduction of EURO, and before EURO banknotes and coins begin to circulate	After EURO banknotes and coins begin to circulate, and before national currency is withdrawn from circulation. (Co-existence of EURO and national currency)	After the national currency is withdrawn from circulation
Curren	EURO	Exchange key (Preset rate entry)	Domestic currency	Domestic currency
	National currency	Domestic currency	Exchange key (Preset rate entry)	
cy	Foreign currency	Exchange key (Manual rate entry)	Exchange key (Manual rate entry)	Exchange key

Automatic EURO modification operation

Make sure the mode switch is in the X2/Z2 mode first, then perform the following procedure. Please note that you can perform each operation only once with the substitution of "A=1", "A=2" and "A=3". For example if you performed the operation with the substitution of "A=2" first, you cannot perform the operation with the substitution of "A=1".

$$800 \longrightarrow \bullet \longrightarrow \otimes \longrightarrow ^{\star_A} \longrightarrow TL$$

*A=1: Applicable for period 1 *A=2: Applicable for period 2 *A=3: Applicable for period 3 The details of the register system modification are as shown below:

Items	A=1 (EURO status 1)	A=2 (EURO status 2)	A=3 (EURO status 3)
General Z1 report	Issue	Issue	Issue
General Z2 report	Issue	Issue	Issue
GT memories (GT1, GT2, GT3 and Training GT)	-	Clear	Clear*1
Conversion of preset prices of Dept./PLU	-	Yes	Yes*1
Conversion of entry digit/amount limit	-	Yes	Yes*1
Exchange amount printing for total and change	Yes	Yes	No
Exchange calculation method	Division	Multiplication	Multiplication
Domestic currency symbol	-	[EURO]	[EURO]
Domestic currency decimal point position	-	2	2
Exchange currency symbol	[EURO]	Previous domestic currency symbol	-*2
Exchange currency decimal point position	2	Previous domestic currency decimal point position	-
Rounding system (Denmark/Sweden/Normal)	-	Normal	Normal*1
Rounding up/down of the unit digits of amount	-	No	No*1
Lowest digit entering limitation of item	-	Arbitrary	Arbitrary*1
Lowest digit entering limitation of payment	-	Arbitrary	Arbitrary*1
Memory of difference due to rounding	-	No	No*1
Rounding of exchange currency	Round off (4 down/5 up)	Round off	Round off

- The item marked with "-" remains the same as the previous data.
- *1: When you perform from EURO status 2, previous data remains unchanged.
- *2: When you perform from EURO status 1 or 2, "space" is set.

IMPORTANT

- Conversion of the preset unit prices of departments and PLUs

 Note that the conversion rate of the preset rate of the EX key is applied for the conversion, and the method is set to "division". When the conversion is performed, the message "PRICE CONVERTED" will be printed on the #800 report.
- After the execution of the procedure with "A=1", treat EURO as foreign currency using the exchange key (EX) with the preset rate entry. Set the EURO conversion rate as the currency exchange rate for the exchange key.
- After the execution of the procedure with "A=2", treat EURO as domestic currency, and national currency as foreign currency using the exchange key (EX) with the preset rate entry. Set the EURO conversion rate as the currency exchange rate for the exchange key.
- As for the percent rate for % and ⑤, the automatic conversion is not made. So, when your domestic currency becomes EURO, you must change these settings so that they are base on EURO currency.

Note

You can manually make these settings. For programming details, please refer to "EURO Programming" section.

Checking the current EURO status

You can check the EURO status currently set on the cash register. Set the manager key (MA) to the X2/Z2 position, and perform the following sequence. The current EURO status will be printed on the receipt/journal.

Optional Programming for the Introduction of EURO

Some programming relating with the function of exchange key (EX) cannot be changed automatically with the execution of modification operation described in the previous section. After the execution on each period, conduct the following programming depending on your needs.

Programming for Exchange Key (EX)

Currency exchange rate

For period 1 and period 2, set the EURO conversion rate.

For programming details, refer to "Rate for % and EX" on page 40.

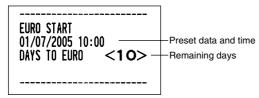
Exchange rate entry selection

When you treat EURO currency in the exchange key, you must apply preset rate entry. So, make enable for preset rate entry for period 1 and period 2. For programming details, refer to "Function parameters for EX" on page 42.

Cheque/credit operation

For period 1 and period 2, enable cheque/credit operation when tendering in foreign currency so that you can treat cheque and credit for EURO currency and national currency. For programming details, refer to "EURO system settings" on page 59.

Setting the date and time when the automatic modification operation for EURO should be executed Selection of compulsory/non-compulsory of execution of the automatic modification operation for EURO You can program the scheduled date and time to execute the automatic EURO modification operation . From ten days before the preset date, the remaining days are printed at the bottom of the daily full resetting (Z1) report as follows.



When the above-mentioned preset date and time has come, and also when you start an entry in the REG/MGR mode, the error message "EURO CHANGE" is displayed. You cannot make any operation in the REG/MGR mode until you execute the automatic modification operation for EURO (job #800) in the X2/Z2 mode. You can program so that you can make entries in the REG/MGR mode even when the error message is displayed.

Date and time setting will be reset after the execution of the automatic modification operation and you can program again the date and time for the next automatic modification operation.

OPERATOR MAINTENANCE

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 returns to normal 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.)

F06 TAX2 ST F07 TAX3 ST	
F08 TAX4 ST F09 VAT 1	

2 In Case of Printer Error

If the printer runs out of paper, the printer will stall, and "PAPER EMPTY" will appear on the display. Key entries will not be accepted. Refer to section 4 in this chapter, install a new roll, then press the CL key. The printer will print the power failure symbol and resume printing.

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

3 Cautions in Handling the Printer and Recording Paper

Cautions in handling the printer

- Avoid dusty and humid environments, direct sunlight and iron powder. (A permanent magnet and electromagnet are used in this machine.)
- Never pull the paper when the print roller arm is locked. First lift up the arm, and then remove the paper.
- Never touch the surface of the print head and print roller.

■ Cautions in handling the recording paper (thermal paper)

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

4 Replacing the Batteries

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

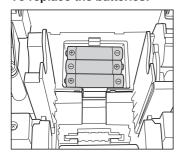
When the low battery message is displayed, replace the batteries with new ones as soon as possible. The existing batteries will be dead in about two days.

When the no battery message is displayed, replace the batteries immediately. Otherwise, if the AC power cord is disconnected or a power failure occurs, all the programmed settings will be reset to the default settings and any data stored in memory will be cleared.

Note

Be sure to observe precautions shown on page 1 when handling batteries.

To replace the batteries:



- 1. Make sure that the cash register is plugged in.
- 2. Turn the mode switch to the REG position.
- **3.** Remove the printer cover.
- **4.** Open the battery compartment cover next to the paper roll cradle and remove the old batteries.
- 5. Install three new R6 or LR6 batteries ("AA" size) in the battery compartment. Be sure the positive and negative poles of each battery are facing in the proper direction. When they are installed correctly, the "LOW BATTERY" or "NO BATTERY" will disappear.
- 6. Close the battery compartment cover.
- 7. Replace the printer cover.

5 Replacing the Paper Roll

Be sure to use paper rolls specified by SHARP.

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

Paper specification

Paper width: 57.5 ± 0.5 mm Max. outside diameter: 80 mm Quality: Thermal paper

• Be sure to set the paper roll prior to using your machine, otherwise it may cause a malfunction. Install the paper roll in the printer. Be careful to set the roll correctly.

(How to set the paper roll)

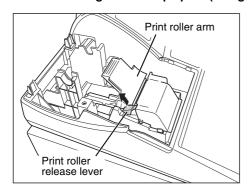


Removing the paper roll

When a red dye appears on the paper roll, it is time to replace it. Replace the paper roll with a new one. If you plan on not using the register for an extended period of time, remove the paper roll, and store it in an appropriate place.

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

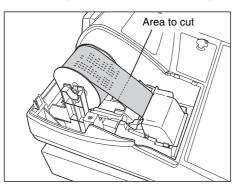
When not using the take-up spool (using as receipt paper):



- **1.** Remove the printer cover.
- **2.** Lift up the print roller release lever to unlock and open the print roller arm.
- **3.** Remove the paper roll from the paper roll cradle.

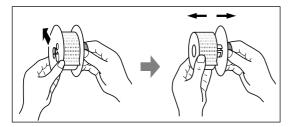
Note Do not pull the paper through the printer.

When using the take-up spool (using as journal paper):



- 1. Turn the mode switch to a position other than " \circlearrowleft " with the power cord connected.
- **2.** Remove the printer cover.
- **3.** Press the key to advance the journal paper until its printed part is out of the way.
- **4.** Cut the paper and remove the take-up spool.
- **5.** Lift up the print roller release lever to unlock and open the print roller arm.
- 6. Remove the paper roll from the paper roll cradle.

Note Do not pull the paper through the printer.

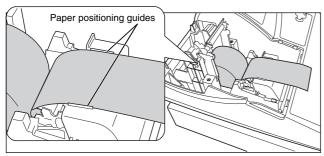


- **7.** Remove the outer side of the take-up spool as shown on the left.
- 8. Remove the printed journal roll from the take-up spool.

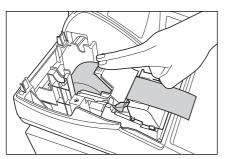
■ Installing the paper roll

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

Installing the receipt paper roll:



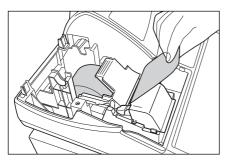
- 1. Turn the mode switch to a position other than "o" with the power cord connected.
- **2.** Remove the printer cover.
- **3.** Lift up the print roller release lever to unlock and open the print roller arm.
- **4.** Set the paper correctly in the paper roll cradle.
- **5.** Feed the end of the paper along with the paper positioning guides.



6. While holding down the paper, slowly close the print roller arm, and push down the arm until you hear a click locking the arm. Make sure securely you push down the center of the wing part of the arm as per the diagram. The paper will be fed automatically.

Note

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

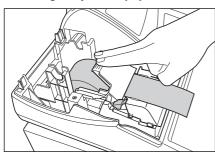


7. Cut off the excess paper using the edge of the inner cover, and replace the printer cover. Press the key to make sure the paper end comes out of the printer cover and clean paper appears.

Note

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

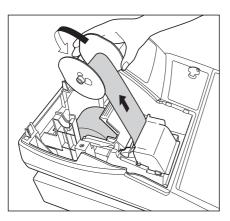
Installing the journal paper roll:



- 1. Turn the mode switch to a position other than " o " with the power cord connected.
- **2.** Remove the printer cover.
- 3. Lift up the print roller release lever to unlock and open the print roller arm
- **4.** Set the paper correctly in the paper roll cradle.
- **5.** Feed the end of the paper along with the paper positioning guides.
- 6. While holding down the paper, slowly close the print roller arm, and push down the arm until you hear a click locking the arm. Make sure securely you push down the center of the wing part of the arm as per the diagram. The paper will be fed automatically.



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



- 7. Insert the end of the paper into the slit in the spool. (Press the hey to feed more paper if required.)
- 8. Wind the paper two or three turns around the spool shaft.
- **9.** Set the spool on the bearing, and press the

 ↑ key to take up excess slack in the paper.
- 10. Replace the printer cover.

Note

You can wind the roll paper in OP X/Z, X1/Z1, and X2/Z2 modes even if you programmed so that the printer is used for issuance of receipts. This may be convenient to wind reports. In this case, set the roll paper to the take-up spool.

6 Removing a Paper Jam

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

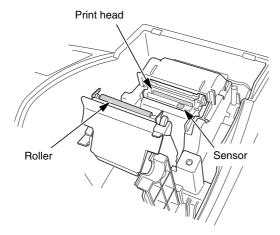
- **1.** Remove the printer cover.
- 2. Lift up the print roller release lever to unlock and open the print roller arm.
- 3. Remove the paper jam. Check for and remove any shreds of paper that may remain in the printer.
- 4. Reset the paper roll correctly by following the steps in "Installing the paper roll".

7 Cleaning the Printer (Print Head / Sensor / Roller)

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

Caution:

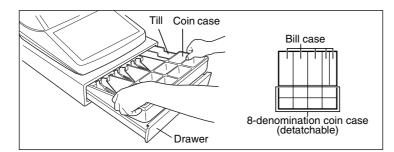
- Never touch the print head with a tool or anything hard as it may damage the head.
- The paper cutter is mounted on the printer cover. Be careful not to cut yourself.

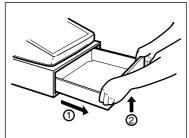


- 1. Turn the mode switch to the " \circlearrowleft " position.
- **2.** Remove the printer cover.
- Lift up the print roller release lever to unlock and open the print roller arm.
- **4.** Remove the paper roll referring to the "Removing the paper roll" section.
- 5. Clean the print head with a cotton swab or soft rag moistened with ethyl alcohol or isopropyl alcohol. Clean the roller and the sensor in the same manner.
- **6.** Reset the paper roll correctly by following the steps in "Installing the paper roll".

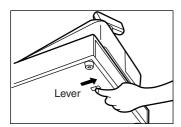
8 Removing the Till and the Drawer

The till in the register is detachable. After closing your business for the day, remove the till from the drawer and keep the drawer open. The 8-denomination coin case is also detachable from the till. To detach the drawer, pull it forward fully with the till removed, and remove it by lifting it up.





9 Opening the Drawer by Hand



The drawer automatically opens. However, when a power failure occurs or the machine becomes out of order, slide the lever located on the bottom of the machine in the direction of the arrow. (See the diagram at the left.)

The drawer will not open if it is locked with the key.

10 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 "Checking" shown in the right-hand column before calling for service.

Fault	Checking
(1) The display shows symbols that do not make sense.	Has the machine been initialized properly as shown in "GETTING STARTED"? (Note that initialization clears all the data and programmed settings stored in memory.)
(2) The display won't illuminate even when the mode switch is turned to any other position than "也".	Is power supplied to the electrical outlet? Is the power cord plug out or loosely connected to the AC outlet?
(3) The display is illuminated, but the whole machine refuses registrations.	Is a clerk code assigned to the register?Is the mode switch set properly at the "REG" position?
(4) No receipt is issued.	 Is the paper roll properly installed? Is there a paper jam? Is the receipt function in the "OFF" status? Is the print roller arm securely locked?
(5) No journal paper is taken up.	Is the take-up spool installed on the bearing properly?Is there a paper jam?
(6) Printing is unusual.	Is the print roller arm securely locked? Open the print roller arm, and lock the arm by following the instruction of installation. Is the paper roll properly installed? Are the print head/sensor/roller clean?
(7) Continuous printing stops.	• Display shows " \rightarrow \rightarrow \rightarrow \rightarrow ". Printing will automatically restart after several seconds.

■ Error message table

When the following error messages are displayed, press the CL key and take a proper action according to the table below.

Error message	Error status	Action
ENTRY ERROR	Registration error	Make a correct key entry.
MISOPERATION	Misoperation error	Make a correct key entry.
NO RECORD	Undefined code is entered.	Enter a correct code.
MEMORY FULL	Memory is full (in the AUTO key programming).	Program the AUTO key within 25 steps.
SBTL COMPUL.	Compulsory depression of the ST key for direct finalization	Press the ST key and continue the operation.
TEND COMPUL.	Compulsory tendering	Make a tendering operation.
NOT ASSIGNED	No entry of a clerk code	Make a clerk code entry.
OVER LIMIT.	Overflow limitation error	Make a registration within a limit of entry.
INH. OPEN PR	The open price entry is inhibited.	Make a preset price entry.
INH. UNIT PR	The preset price entry is inhibited.	Make an open price entry.
NOT NON-TEND	The direct finalization is inhibited.	Make a tendering operation.
BUFFER FULL	Subtotal void is not allowed.	Finalize the transaction, and correct the wrong entries in the mode.
	2. GLU item entries are reached to 50 items.	Finalize the transaction.
HEAD UP	Print roller arm is lifted up.	Make sure the print roller arm is surely rocked.
PAPER EMPTY	Receipt or journal paper roll is not installed or empty.	Install a receipt or journal paper.
EURO CHANGE	EURO modification operation must be executed	Execute EURO modification operation (Job code 800).

SPECIFICATIONS

Model:	XE-A212		
Dimensions:	355 (W) x 429 (D) x 309 (H) mm		
Weight:	11.3 kg		
Power source:	Official (nominal) voltage and frequency		
Power consumption:	Stand-by: 9W (When the official voltage is 220 to 230 V)		
	Stand-by: 9.6W (When the official voltage is 230 to 240 V)		
	Operating: 35W (When the official voltage is 220 to 230 V)		
	Operating: 36W (When the official voltage is 230 to 240 V)		
Working temperature:	0 °C to 40 °C		
Electronics:	LSI (CPU) etc.		
Display:			
Operator display:	Dot matrix display (16 positions and 2 lines)		
Customer display:	7-segment display (7 positions)		
Printer:			
Type:	One-station thermal printer		
Printing speed:	Approx. 12 lines/second		
Printing capacity:	24 digits each for receipt/journal paper		
Other functions:	Graphic logo printing function		
	Logo message function		
	Receipt (ON-OFF) function		
	Compression print for journal		
Paper roll:	Width: 57.5 ± 0.5 mm		
	Max. diam.: 80 mm		
	Quality: High quality (0.06 to 0.08 mm thickness)		
Cash drawer:	5 slots for bill and 8 for coin denominations		
Accessories:	Manager key	2	
	Operator key	2	
	Drawer lock key	2	
	Paper roll	1	
	Take-up spool	1	
	Fixing angle bracket	1	
	Keyboard sheet	1 (mounted on the keyboard)	
	Keyboard sheet for text programming	1 (mounted on the keyboard)	
	Quick Start Guide	1 copy	
	Instruction manual	1 copy	

^{*} Specifications and appearance subject to change without notice for improvement.

FOR CUSTOMERS IN U.K.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

BLUE: Neutral BROWN: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.

The wire which is coloured **BLUE** must be connected to the terminal which is marked with the letter **N** or coloured black.

The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter **L** or coloured red.

The apparatus must be protected by a 3A fuse in the mains plug or distribution board.

CAUTION: DO NOT CONNECT THE LIVE (BROWN) WIRE OR THE NEUTRAL (BLUE) WIRE TO THE EARTH TERMINAL OF YOUR 3-PIN MAINS PLUG.

Environment Protection

The device is supported by a battery. To dispose the battery safely to protect the environment, please note the following points:

- Take the used battery to your local waste depot, dealer or customer service centre for recycling.
- Do not throw the used battery into fire, into water or into the household waste!

Umweltschutz

Das Gerät wird durch eine Batterie gestützt. Um die Batterie sicher und umweltschonend zu entsorgen, beachten Sie bitte folgende Punkte:

- Bringen Sie die leere Batterie zu Ihrer örtlichen Mülldeponie, zum Händler oder zum Kundenservice-Zentrum zur Entsorgung.
- Werfen Sie die leere Batterie niemals ins Feuer, ins Wasser oder in den Hausmüll.

Protection de l'environnement

L'appareil est supporté sur pile. Afin de protéger l'environnement, nous vous recommendons de traiter la pile usagée la façon suivante:

- Apporter la pile usagée à votre centre de traitement des ordures ménagères le plus proche ou, à votre revendeur ou, au service après-vente, pour recyclement.
- Ne jamais jeter la pile usagée dans une source de chaleur, dans l'eau ou dans les vide-ordures.

Miijöskydd

Denna produkt nöddrivs av batteri.

Vid batteribyte skall följande iakttagas:

- Det förbrukade batteriet skall inlämnas till er lokala handlare eller till kommunal miljöstation för återinssamling.
- Kasta ej batteriet i vattnet eller i hushållssoporna. Batteriet får ej heller utsätttas för öppen eld.

Bescherming van het milieu

Deze kassa gebruikt een batterij. Bescherm het milieu en gooi een gebruikte batterij op de juiste manier weg. Let op de volgende punten:

- Breng een lege batterij naar de lokale verzamelplaats voor klein chemisch afval, terug naar de winkel of gooi in een batterijbak.
- Gooi een gebruikte batterij niet in een vuur of water en gooi niet met het gewone huisafval weg.

Geräuschpegel: 81,4 dB (A)

Gemessen nach DIN 45635 bzw. EN27779

