



SHARP®

ELECTRONIC CASH REGISTER
ELEKTRONISCHE REGISTRIERKASSE
CAISSE ENREGISTREUSE ELECTRONIQUE
CAJA REGISTRADORA ELECTRONICA

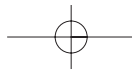
MODEL
MODELL
MODELE
MODELO

XE-A201

INSTRUCTION MANUAL
BEDIENUNGSANLEITUNG

MANUEL D'INSTRUCTIONS
MANUAL DE INSTRUCCIONES



**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.

WARNING:

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

CAUTION:

For a complete electrical disconnection pull out the mains plug.

VORSICHT:

Zur vollständigen elektrischen Trennung vom Netz den Netzstecker ziehen.

ATTENTION:

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

AVISO:

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

WARNING:

För att helt koppla från strömmen, dra ut stickproppen.

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/EEG.

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 Ένωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, όπως οι κανονισμοί αυτοί συμπληρώθηκαν από την οδηγία 93/68/ΕΟΚ.

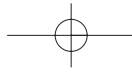
Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

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-A201. 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.

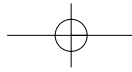
CAUTION!

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 7.

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 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 7).**

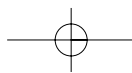


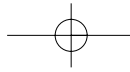
CONTENTS

INTRODUCTION1
IMPORTANT1
CONTENTS.....2
PARTS AND THEIR FUNCTIONS.....4
 1 External View4
 2 Printer.....4
 3 Mode Switch and Mode Keys5
 4 Keyboard5
 5 Displays6
 6 Drawer Lock Key6
GETTING STARTED.....7

FOR THE OPERATOR

BASIC SALES ENTRY11
 1 Basic Sales Entry Example11
 2 Error Warning12
 3 Item Entries13
 Single item entries13
 Repeat entries14
 Multiplication entries15
 Single item cash sale (SICS) entry15
 4 Displaying Subtotals16
 5 Finalization of Transaction16
 Cash or cheque tendering16
 Cash or cheque sale that does not require tender entry16
 Credit sale17
 Mixed-tender sale17
 6 Computation of VAT (Value Added Tax)/tax17
 VAT/tax system17
OPTIONAL FEATURES.....18
 1 Auxiliary Entries.....18
 Percent calculations (premium or discount)18
 Deduction entries.....19
 Refund entries19
 Non-add code number entries and printing20
 2 Auxiliary Payment Treatment20
 Currency exchange20
 Received-on account entries21
 Paid-out entries21
 No sale (exchange)22
 3 Automatic Sequence Key (AUTO key) Entries.....22
CORRECTION22
 1 Correction of the Last Entry (direct void)22
 2 Correction of the Next-to-last or Earlier Entry (indirect void)23
 3 Subtotal Void23
 4 Correction of Incorrect Entries not Handled by the Direct or Indirect Void Function23





FOR THE MANAGER

PRIOR TO PROGRAMMING24

BASIC FUNCTION PROGRAMMING (For Quick Start)24

 1 Date and Time Programming24

 2 Tax Programming.....25

 Tax rate programming25

AUXILIARY FUNCTION PROGRAMMING26

 1 Department Programming26

 2 PLU (Price Look-Up) and Subdepartment Programming28

 3 Miscellaneous Key Programming.....29

 Rate for [%1], [%2] and [EX].....29

 Amount for [⊖].....30

 Percent rate limitation for [%1] and [%2]30

 Function parameters for [%1], [%2] and [⊖]31

 Function parameters for [EX]31

 Function parameters for [RA], [RCPT/PO], [CH], [CR1], [CR2] and [TL/NS] (when using as TL key).....32

 4 Text Programming33

ADVANCED FUNCTION PROGRAMMING39

 1 Register Number and Consecutive Number Programming39

 2 Electronic Journal (EJ) Programming.....40

 3 Various Function Selection Programming 141

 Function selection for miscellaneous keys42

 Print format42

 Receipt print format43

 Other programming43

 4 Various Function Selection Programming 246

 Power save mode46

 Logo message print format47

 Thermal printer density47

 Language selection48

 Training clerk specification for training mode48

 AUTO key programming.....48

 5 EURO Programming49

 6 Reading Stored Programs.....51

EURO MIGRATION FUNCTION53

TRAINING MODE56

READING (X) AND RESETTING (Z) OF SALES TOTALS57

EJ REPORT READING AND RESETTING60

OVERRIDE ENTRIES61

CORRECTION AFTER FINALIZING A TRANSACTION (Void mode).....61

OPERATOR MAINTENANCE.....62

 1 In Case of Power Failure62

 2 In Case of Printer Error62

 3 Cautions in Handling the Printer and Recording Paper.....62

 4 Replacing the Batteries63

 5 Replacing the Paper Roll.....63

 6 Removing a Paper Jam65

 7 Cleaning the Print Head66

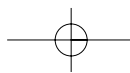
 8 Removing the Till and the Drawer66

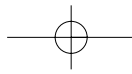
 9 Opening the Drawer by Hand.....66

 10 Before Calling for Service.....67

 Error code table67

SPECIFICATIONS68





PARTS AND THEIR FUNCTIONS

1 External View

■ Front view

Operator display

Printer cover

Receipt paper

Drawer

Drawer lock

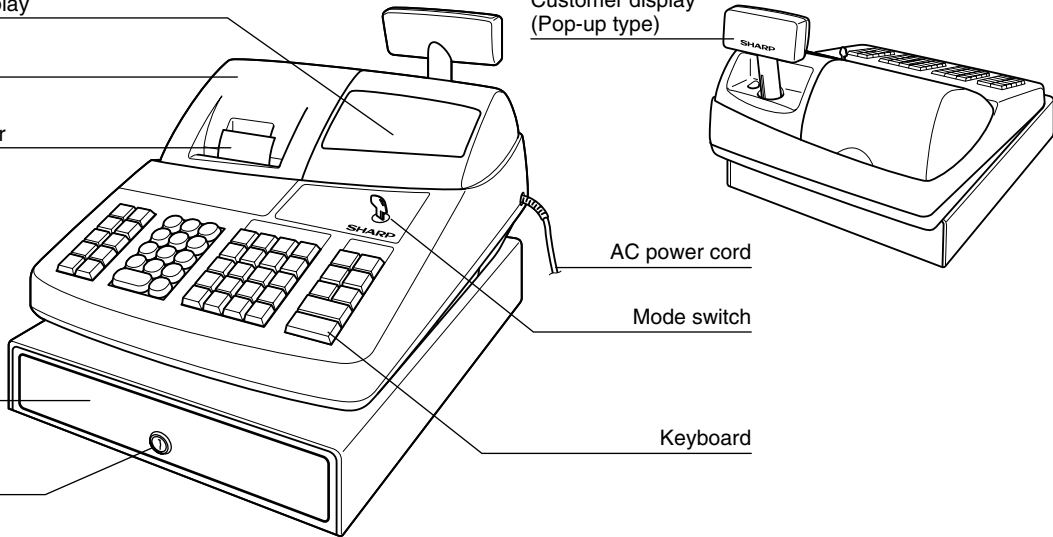
■ Rear view

Customer display
(Pop-up type)

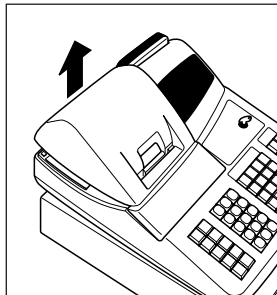
AC power cord

Mode switch

Keyboard



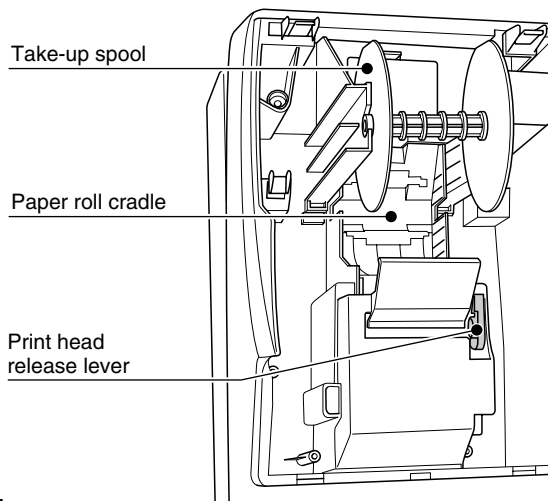
2 Printer



The printer is one station type thermal printer, and 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 cover. Be careful not to cut yourself.



Take-up spool

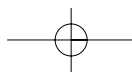
Paper roll cradle

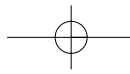
Print head
release lever

Print head release lever

The print head can be lifted off the roller by the print head release lever (light green lever on the right side of the printer). Pulling the lever toward you moves the print head away from the roller. If the paper becomes jammed, you will need to use this lever to release the print head from the paper to remove the jammed paper.

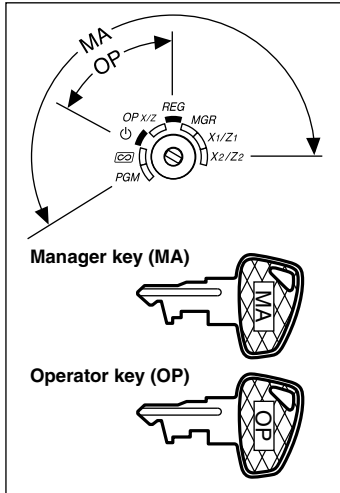
Note Do not attempt to remove the paper roll with the head in the down position. This may result in damage to the printer and print head.





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 “⏻” position.

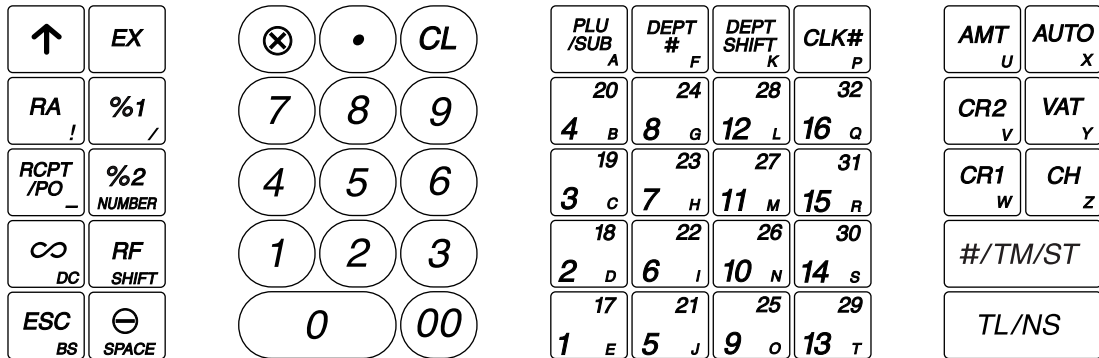


The mode switch has these settings:

- ⏻ :** 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/PO** 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

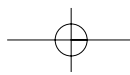
Keyboard layout

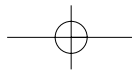


Note The small characters on the bottom or lower right in each key indicates functions or characters which can be used for character entries for text programming. For details, refer to page 33.

Key names

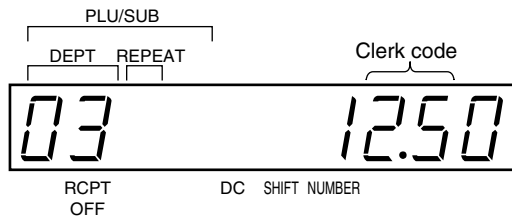
- | | | |
|-------------------------------------|--|---|
| ↑ Paper feed key | ⊗ Multiplication key | AMT Amount key |
| RA Received-on account key | • Decimal point key | AUTO Automatic sequence key |
| RCPT /PO Receipt print/Paid-out key | CL Clear key | VAT Value added tax key |
| ∞ Void key | 00 0 ~ 9 Numeric keys | CR1 CR2 Credit 1 and 2 keys |
| ESC Escape key | PLU /SUB PLU/Subdepartment key | CH Cheque key |
| EX Foreign currency exchange key | DEPT # Department code entry key | #/TM/ST Non-add code/Time display /Subtotal key |
| %1 %2 Percent 1 and 2 keys | DEPT SHIFT Department shift key | TL/NS Total/No sale key |
| RF Refund key | CLK# Clerk code entry key | |
| ⊖ Discount key | 1 ¹⁷ ~ 16 ³² Department keys | |





5 Displays

Operator display



Customer display (Pop-up type)



Amount: Appears in the far-right eight (max.) positions. When the amount is negative, the minus symbol “-” appears before the amount.

Number of repeats for repetitive registrations:

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 → 3 …… 9 → 0 → 1 → 2 …)

Receipt function status:

The indicator “_” appears in the RCPT OFF position when the receipt function is in the OFF status.

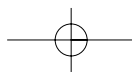
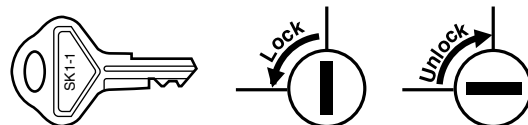
Time: Appears in the second to sixth positions (using 24-hour format) in the OP X/Z, REG or MGR mode. In the REG or MGR mode, press the **[#/TM/ST]** key to display the time.

Machine state symbols

- P** : Appears during programming.
- E** : Appears when an error is detected.
- : Appears when the subtotal is displayed or when the amount tendered is smaller than the sales amount.
- C** : Appears when the **[EX]** key is pressed to calculate a subtotal in foreign currency.
- F** : Appears when a transaction is finalized by pressing the **[TL/NS]**, **[CH]**, **[CR1]** or **[CR2]** key.
- L** : Appears when the change due amount is displayed.
- E-E** : Appears in the far-left three positions at the timing of key entry when the electronic journal (EJ) memory is full. (Depending on programming.)
- L** : Appears when the voltage of the installed batteries is under the required level. You must replace with new ones within two days. Refer to page 63 for details.
- L** : Appears when the batteries are not installed, or the installed batteries are dead. You must replace with new ones immediately. Refer to page 63 for details.
- : May appear right below the eighth and ninth places at the timing of finalization of a transaction when the electronic journal (EJ) memory is nearly full.
Also appears right below the tenth place when power save mode is effective.
- E-EU** : Appears when programmed date (and time) for EURO modification operation is come.
- H** : Appears when the print head release lever is in the lifted position.
- PPPPPPPPPP** : Appears when the paper is out.

6 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. The batteries are not installed and the power is "OFF".

1 Installing the cash register

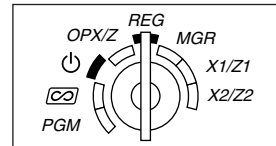
Find a stable surface near an AC outlet where the cash register will not be subject to water sources or direct sunlight.

2 Initializing the cash register

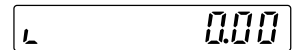
In order for the cash register to operate properly, you must initialize it before operating for the first time. Follow this procedure.

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.



3. The cash register has now been initialized. The register display will show "0.00" with "L".



Note

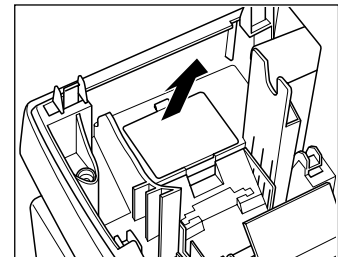
If the buzzer does not sound when the plug is inserted, the initialization has not been done successfully. (This will occur when the voltage is high because you operated the cash register before starting initialization.) Wait at least one minute after pulling out the plug and insert the plug again.

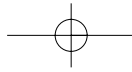
3 Installing batteries

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 power 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 "L" symbol will appear on the display to indicate the batteries are low and must be replaced within two days. If the no battery symbol "L" appears, you must install the batteries at once.

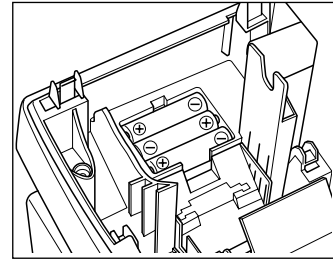
Install three new R6 or LR6 batteries ("AA" size) according to the procedure shown below with the power cord connected and set to the REG position:

1. Lift the rear of the printer cover and detach it.
Be careful with the paper cutter, so as not to cut yourself.
2. Open the battery compartment cover.





3. Install three new R6 or LR6 batteries (“AA”size) as per the diagram.
When the batteries are properly installed “L” on the display will disappear.
4. Close the battery compartment cover.



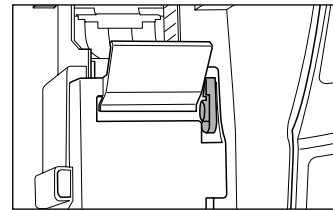
Note *Be sure to observe precautions shown on page 1 when handling batteries.*

4 Installing a paper roll

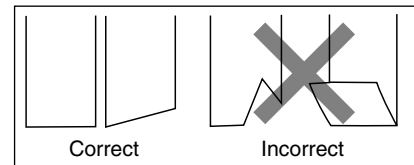
Precaution: The paper cutter is mounted on the printer cover. Take caution when removing and installing the cover.

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 power cord connected and the mode switch set to the REG position:

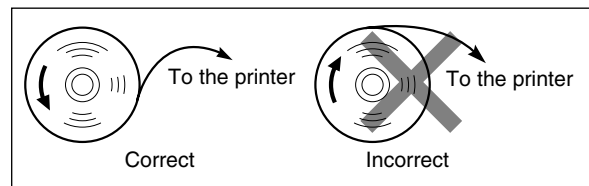
1. Make sure the print head release lever is positioned as per the diagram.




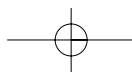
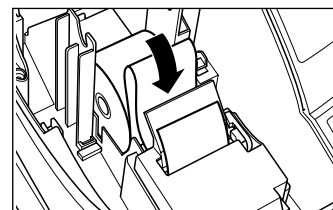
2. Cut off approximately one revolution of the paper roll. Make sure the paper end is cut as per the diagram.

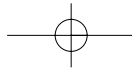


3. Set the paper in paper roll cradle as per the diagram.




4. Insert the end of the paper into the printer until it is caught by the printer auto-feed and comes out of the top of the printer. If the printer does not catch the paper, feed the paper while pressing the  key.

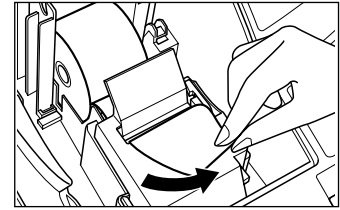






5. When not using the take-up spool (using as receipt paper):

- 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.

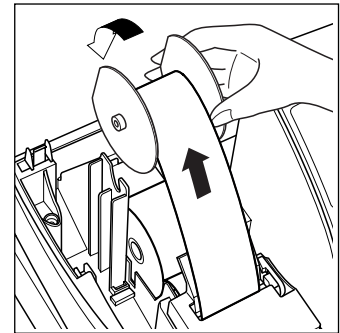
Note *If the paper end does not come out, remove the printer cover, and pass the paper end between the paper cutter and the paper guide of the printer cover, and replace the cover.*



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

- Insert the end of the paper into the slit in the spool. (Press the  key 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.

Note *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 for changing the printing style.*



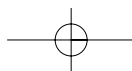
5 Programming date, time and VAT/tax

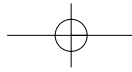
Note *The cash register provides text languages of English, German, French and Spanish. It is preset to English. If you want to change the language, you must change it before programming. Refer to "Language selection" in "Various Function Selection Programming 2" section for changing the language.*

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 24).





6

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. Before you start programming, please read through the sales operations section to understand optional functions.

Settings for introduction of EURO

The cash register can be modified to correspond with each period set for the introduction of EURO. By executing the automatic EURO modification operation, you can easily make the cash register correspond to EURO currency. For details, please refer to "EURO MIGRATION FUNCTION" on page 53.

Decimal point position (tab) setting for domestic currency

By default, "2" is selected. When your country has a different tab setting such as Spain, you must change the setting. Please refer to "Other programming" of "Various Function Selection Programming 1" (Job code 61) on page 43.

Rounding system

When your country has a special rounding system, such as Australia, Switzerland, Netherlands, Norway, Sweden and Denmark, you must change the setting to suit your country. For the setting for Australia, Switzerland, Netherlands and Norway, please refer to "Other programming" of "Various Function Selection Programming 1" (Job code 67) on page 45. For the setting for Sweden and Denmark, please refer to "Other programming" of "Various Function Selection Programming 1" (Job code 69) on page 46.

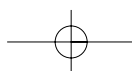
VAT/tax

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, taxable 1 is assigned to all departments.

7

Starting sales entries

Now you are ready for sales registration.



FOR THE OPERATOR

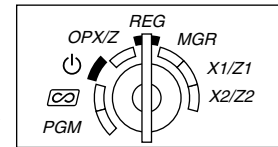
BASIC SALES ENTRY

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. Press the 1 and CLK# key in this order.)

Item entries

3. Enter the price for the first department item. (For example, for 15.00, enter 1 5 00, and press the appropriate department key).

For department 17 to department 32, press the DEPTSHIF# key first before pressing the department key.

For department 33 and above, enter the price and press the AMT key, then enter the department code using numeric keys and press the DEPT# key.

4. Repeat step 3 for all department items.

Displaying subtotals

5. Press the #/TM/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/NS key, and the change due is displayed and the drawer is opened.
8. Tear off the receipt and give it to the customer with his or her change.
9. Close the drawer.

Key operation example

Clerk assignment	→ 1 [CLK#]	[]	-01-
Item entries	{ 1500 [1] [17]	[01]	15.00
		{ 2300 [2] [18]	[02]	23.00
Displaying subtotal	→ [#/TM/ST]	[0]	38.00
		4000	4000
Finalizing the transaction	→ [TL/NS]	[C]	2.00


(In this example, tax system is set to automatic VAT 1-4 and the tax rate is set to 6.25%.)


Print

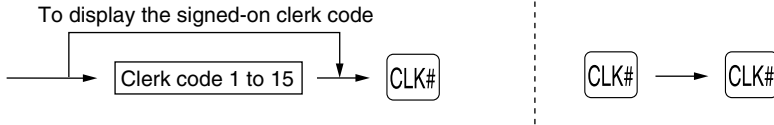
SHARP PRESENTS THE XE-A201 SHARP IS THE BEST		Logo message
30/08/2002 11:23	01	Date/Time/Clerk code
123456#0379 DAVID		Register number /Consecutive number/Clerk name
DEPT. 01	*15.00	Items
DEPT. 02	*23.00	Price
SUBTOTAL	*38.00	Not printed when non-taxable items only are sold.
TAX1 ST	*38.00	
VAT 1	*2.24	
NET 1	*35.76	
ITEMS	20	Total quantity
***TOTAL	*38.00	Total amount
CASH	*40.00	Cash tendering/amount received
CHANGE	*2.00	Change

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  key in the OP X/Z position. This key toggles the receipt printing status ON and OFF.


To check the receipt printing status, turn the mode switch to the OP X/Z position or press the  key in the REG mode. When the function is in the OFF mode, the receipt off indicator “_” illuminates.

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  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 44.






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. 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.

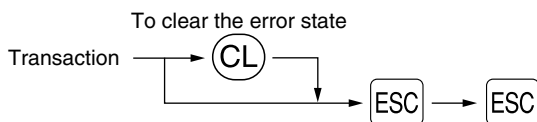
2 Error Warning

In the following examples, your register will go into an error state accompanied with a warning beep and an error symbol “E” on the display. Clear the error state by pressing the  key and take the proper action. Please refer to the error code table on page 67.

- 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  key and press the , ,  or  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

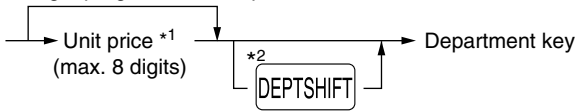
For a merchandise classification, the cash register provides a maximum of 50 departments. To the departments, group attributes such as taxable status are applied to items when they are entered.

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

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

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

When using a programmed unit price



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

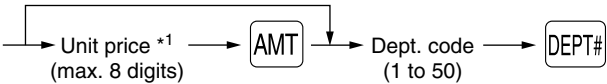
*2 For the departments 17 through 32, press the department shift key.

Note Please note if you press the same key after using the **DEPTSHIFT** key, it acts as a repeat entry. For example, when you register an item of dept. 17 using the **DEPTSHIFT** key and then an item of dept. 1 using the preset unit price, you should use the department code entry key described below for the dept. 1 item. If you just press the **1¹⁷** key to register dept. 1 item, it will act as a repeat entry of dept. 17 item.

When using the department code entry key

Enter a unit price and press the **AMT** key, then enter a department (dept.) code and press the **DEPT#** key. If you use a programmed unit price, enter a dept. code and press the **DEPT#** key.

When using a programmed unit price



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

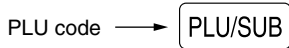
2. PLU/subdepartment entries

For another merchandise classification, the cash register provides a maximum of 1200 PLUs/subdepartments. PLUs are used to call up preset prices by a code entry. 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.

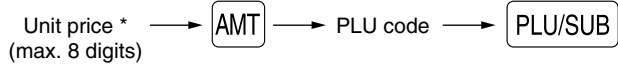
By default, the cash register is preprogrammed to be able to use 1 to 200 codes, and these 200 codes are set to PLU mode and zero for unit price.

To extend the number of PLU codes to 1200, please refer to "EJ memory type" on page 40, and for other PLU/subdepartment programming, refer to "PLU/Subdepartment Programming" on page 28.

• **PLU entries**

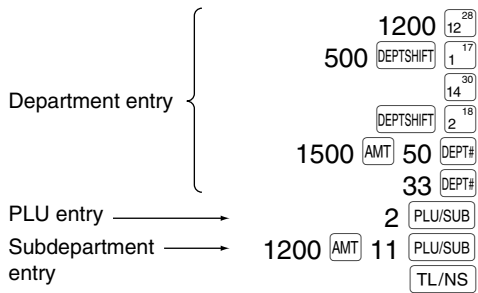


• **Subdepartment (open PLU) entries**



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

Key operation example



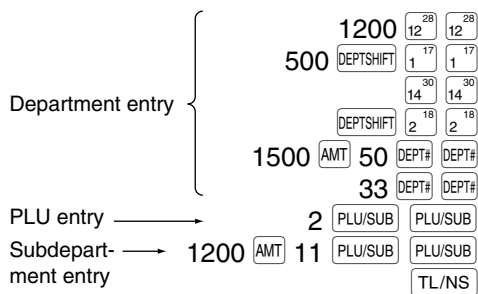
Print

DEPT. 12	*12.00
DEPT. 17	*5.00
DEPT. 14	*8.25
DEPT. 18	*3.25
DEPT. 50	*15.00
DEPT. 33	*2.50
PLU. 0002	*1.50
PLU. 0011	*12.00
ITEMS	8Q
CASH	*59.50

■ **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, DEPT# key or PLU/SUB key is as shown on key operation example below.

Key operation example



Print

DEPT. 12	*12.00
DEPT. 12	*12.00
DEPT. 17	*5.00
DEPT. 17	*5.00
DEPT. 14	*8.25
DEPT. 14	*8.25
DEPT. 18	*3.25
DEPT. 18	*3.25
DEPT. 50	*15.00
DEPT. 50	*15.00
DEPT. 33	*2.50
DEPT. 33	*2.50
PLU. 0002	*1.50
PLU. 0002	*1.50
PLU. 0011	*12.00
PLU. 0011	*12.00
ITEMS	16Q
CASH	*119.00

■ 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 \otimes 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, as $\odot \cdot \odot \odot$ for entering 7.5.

Key operation example	Print																																				
Department entry { PLU entry → Subdepartment entry →	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">3 \otimes 1200 12²⁸</td> <td></td> </tr> <tr> <td style="padding: 2px;">5 \otimes 500 DEPTSHIFT 1¹⁷</td> <td></td> </tr> <tr> <td style="padding: 2px;">3 \otimes 14³⁰</td> <td></td> </tr> <tr> <td style="padding: 2px;">5 \otimes DEPTSHIFT 2¹⁸</td> <td></td> </tr> <tr> <td style="padding: 2px;">3 \otimes 1500 AMT 50 DEPT#</td> <td></td> </tr> <tr> <td style="padding: 2px;">5 \otimes 33 DEPT#</td> <td></td> </tr> <tr> <td style="padding: 2px;">3 \otimes 2 PLU/SUB</td> <td></td> </tr> <tr> <td style="padding: 2px;">5 \otimes 1200 AMT 11 PLU/SUB</td> <td></td> </tr> <tr> <td style="padding: 2px;"></td> <td style="text-align: center;">TL/NS</td> </tr> </table>	3 \otimes 1200 12²⁸		5 \otimes 500 DEPTSHIFT 1¹⁷		3 \otimes 14³⁰		5 \otimes DEPTSHIFT 2¹⁸		3 \otimes 1500 AMT 50 DEPT#		5 \otimes 33 DEPT#		3 \otimes 2 PLU/SUB		5 \otimes 1200 AMT 11 PLU/SUB			TL/NS																		
3 \otimes 1200 12²⁸																																					
5 \otimes 500 DEPTSHIFT 1¹⁷																																					
3 \otimes 14³⁰																																					
5 \otimes DEPTSHIFT 2¹⁸																																					
3 \otimes 1500 AMT 50 DEPT#																																					
5 \otimes 33 DEPT#																																					
3 \otimes 2 PLU/SUB																																					
5 \otimes 1200 AMT 11 PLU/SUB																																					
	TL/NS																																				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">3x 12.00</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">DEPT. 12</td> <td style="padding: 2px; text-align: right;">*36.00</td> </tr> <tr> <td style="padding: 2px;">5x 5.00</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">DEPT. 17</td> <td style="padding: 2px; text-align: right;">*25.00</td> </tr> <tr> <td style="padding: 2px;">3x 8.25</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">DEPT. 14</td> <td style="padding: 2px; text-align: right;">*24.75</td> </tr> <tr> <td style="padding: 2px;">5x 3.25</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">DEPT. 18</td> <td style="padding: 2px; text-align: right;">*16.25</td> </tr> <tr> <td style="padding: 2px;">3x 15.00</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">DEPT. 50</td> <td style="padding: 2px; text-align: right;">*45.00</td> </tr> <tr> <td style="padding: 2px;">5x 2.50</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">DEPT. 33</td> <td style="padding: 2px; text-align: right;">*12.50</td> </tr> <tr> <td style="padding: 2px;">3x 1.50</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">PLU. 0002</td> <td style="padding: 2px; text-align: right;">*4.50</td> </tr> <tr> <td style="padding: 2px;">5x 12.00</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">PLU. 0011</td> <td style="padding: 2px; text-align: right;">*60.00</td> </tr> <tr> <td style="padding: 2px;">ITEMS</td> <td style="padding: 2px; text-align: right;">32Q</td> </tr> <tr> <td style="padding: 2px;">CASH</td> <td style="padding: 2px; text-align: right;">*224.00</td> </tr> </table>	3x 12.00		DEPT. 12	*36.00	5x 5.00		DEPT. 17	*25.00	3x 8.25		DEPT. 14	*24.75	5x 3.25		DEPT. 18	*16.25	3x 15.00		DEPT. 50	*45.00	5x 2.50		DEPT. 33	*12.50	3x 1.50		PLU. 0002	*4.50	5x 12.00		PLU. 0011	*60.00	ITEMS	32Q	CASH	*224.00
3x 12.00																																					
DEPT. 12	*36.00																																				
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DEPT. 17	*25.00																																				
3x 8.25																																					
DEPT. 14	*24.75																																				
5x 3.25																																					
DEPT. 18	*16.25																																				
3x 15.00																																					
DEPT. 50	*45.00																																				
5x 2.50																																					
DEPT. 33	*12.50																																				
3x 1.50																																					
PLU. 0002	*4.50																																				
5x 12.00																																					
PLU. 0011	*60.00																																				
ITEMS	32Q																																				
CASH	*224.00																																				

■ 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, DEPT# key or PLU/SUB key.

Key operation example	Print								
For finishing the transaction →	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">250 9²⁵</td> <td></td> </tr> <tr> <td style="padding: 2px;">DEPT. 09</td> <td style="padding: 2px; text-align: right;">*2.50</td> </tr> <tr> <td style="padding: 2px;">ITEMS</td> <td style="padding: 2px; text-align: right;">1Q</td> </tr> <tr> <td style="padding: 2px;">CASH</td> <td style="padding: 2px; text-align: right;">*2.50</td> </tr> </table>	250 9²⁵		DEPT. 09	*2.50	ITEMS	1Q	CASH	*2.50
250 9²⁵									
DEPT. 09	*2.50								
ITEMS	1Q								
CASH	*2.50								

Note 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.

4 Displaying Subtotals

The subtotal is displayed by pressing the **#/TM/ST** key. When you press it, the subtotal of all entries which have been made is displayed and the symbol “□” will light up in the display.

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 43.*

5 Finalization of Transaction

Cash or cheque tendering

Press the **#/TM/ST** key to get a subtotal, enter the amount tendered by your customer, then press the **TL/NS** key if it is a cash tender or press the **CH** key 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 and the symbol “□” will light up. Otherwise the register will show a deficit and the symbol “□” will light up. You now must make a correct tender entry.

Cash tendering

Key operation example

1000 **#/TM/ST**
TL/NS

Print

ITEMS	1Q	
***TOTAL		*7.35
CASH		*10.00
CHANGE		*2.65

Cheque tendering

Key operation example

1000 **#/TM/ST**
CH

Print

ITEMS	1Q	
***TOTAL		*7.35
CHECK		*10.00
CHANGE		*2.65

Cash or cheque sale that does not require tender entry

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

Key operation example

300 **6**²²
10 **PLU/SUB**
TL/NS

Print

DEPT. 06		*3.00
PLU. 0010		*7.15
ITEMS	2Q	
CASH		*10.15

In the case of cheque sale

ITEMS	2Q	
CHECK		*10.15

■ Credit sale

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

Key operation example

2500
 3250

Print

DEPT. 06	*25.00
DEPT. 07	*32.50
ITEMS	2Q
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

Print

ITEMS	3Q
***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 pre-programmed as automatic VAT 1-4 system.

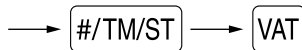
Automatic VAT 1-4 system (Automatic operation method using programmed percentages)

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)

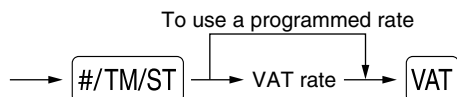
This system, at settlement, calculates taxes for taxable 1 through 4 subtotals by using the corresponding programmed percentages, and also adds the the calculated taxes to those subtotals, respectively.

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



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

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



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

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



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 **#/TM/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:

- VAT1/tax1 —————> A
- VAT2/tax2 —————> B
- VAT3/tax3 —————> C
- VAT4/tax4 —————> D

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 44.

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

Percent calculation for subtotal

Key operation example	Print																
4 <input type="button" value="⊗"/>	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">4x 1.40</td> <td></td> </tr> <tr> <td>DEPT.05</td> <td style="text-align: right;">*5.60</td> </tr> <tr> <td>DEPT.07</td> <td style="text-align: right;">*5.70</td> </tr> <tr> <td>SUBTOTAL</td> <td style="text-align: right;">*11.30</td> </tr> <tr> <td></td> <td style="text-align: right;">-10%</td> </tr> <tr> <td>%1</td> <td style="text-align: right;">-1.13</td> </tr> <tr> <td>ITEMS</td> <td style="text-align: right;">5Q</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">*10.17</td> </tr> </table>	4x 1.40		DEPT.05	*5.60	DEPT.07	*5.70	SUBTOTAL	*11.30		-10%	%1	-1.13	ITEMS	5Q	CASH	*10.17
4x 1.40																	
DEPT.05		*5.60															
DEPT.07		*5.70															
SUBTOTAL		*11.30															
		-10%															
%1		-1.13															
ITEMS	5Q																
CASH	*10.17																
140 <input type="button" value="5<sup>21</sup>"/>																	
570 <input type="button" value="7<sup>23</sup>"/>																	
<input type="button" value="#/TM/ST"/>																	
10 <input type="button" value="%1"/>																	
<input type="button" value="TL/NS"/>																	

Percent calculation for item entries

Key operation example

800 ²²
 7 5
 15

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

Print

DEPT. 06	*8.00
	-7.5%
%1	-0.60
PLU. 0015	*5.00
	15.00%
%2	*0.75
ITEMS	2Q
CASH	*13.15

■ 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 ²²
 10

 100

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

675 ²³

(When a deduction amount of 0.75 is programmed.)

Print

DEPT. 07	*6.75
(-)	-0.75
ITEMS	1Q
CASH	*6.00

■ Refund entries

For a refund of a department item, start with entering the refund amount and press the key, then press the corresponding department key (in case of department 17 to 32, press the key and press the corresponding department key, and in case of department 33 to 50, enter the refund amount and press the key, then enter the department code, press the key and press the key).

For a refund of a PLU item, enter the PLU code and press the key, then press the key.

For a refund of a subdepartment item, enter the refund amount and press the key, then enter the PLU code, press the key and press the key.

Key operation example

250 [RF] [6] [22]
 100 [AMT] 35 [RF] [DEPT#]
 7 [X]
 13 [RF] [PLU/SUB]
 150 [AMT] 11 [RF] [PLU/SUB]
 [TL/NS]

Print

DEPT. 06	R-2.50
DEPT. 35	R-1.00
-7x 2.10	
PLU. 0013	R-14.70
PLU. 0011	R-1.50
ITEMS	0Q
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 [#/TM/ST] key.

Key operation example

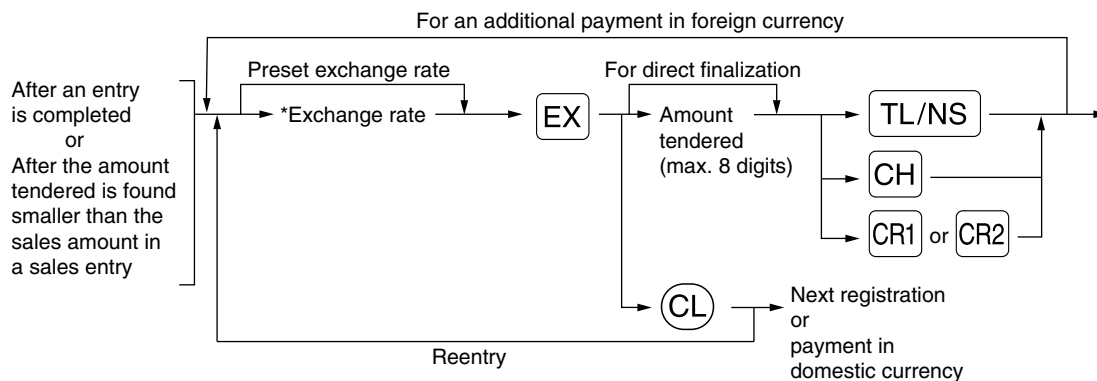
1230 [#/TM/ST]
 1500 [6] [22]
 [CR1]

Print

	#0000000000001230
DEPT. 06	*15.00
ITEMS	1Q
CREDIT1	*15.00

2 Auxiliary Payment Treatment

■ Currency exchange



*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 [CH], [CR1] or [CR2] key.
 - If programmed, a foreign currency symbol is printed when you use a preset rate.

Applying preset exchange rate

Key operation example

2300
 4650
 Currency exchange →
 Amount → 15000
 tendered in foreign currency
 (When a currency exchange rate 1.955830 is programmed for the key.)

Print

DEPT. 06	*23.00	
DEPT. 07	*46.50	
ITEMS	2Q	
***TOTAL	*69.50	Domestic currency
EXCH1	1.955830	Exchange rate
	€135.93	Foreign currency
CASH	€150.00	
CHANGE	*7.19	Domestic currency

Foreign currency symbol
(Printed if programmed)

Applying manual exchange rate

Key operation example

2300
 4650
 Exchange rate → 1 • 275
 10000

Print

DEPT. 06	*23.00
DEPT. 07	*46.50
ITEMS	2Q
***TOTAL	*69.50
EXCH2	1.275
	88.62
CASH	100.00
CHANGE	*8.92

Received-on account entries

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

Note Cash tendering only available for RA operation.

Key operation example

12345
 4800

Print

***RA	#000000000012345	*48.00
-------	------------------	--------

Paid-out entries

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

Note Cash tendering only available for PO operation.

Key operation example

54321
 2300

Print

***PO	#000000000054321	*23.00
-------	------------------	--------

■ No sale (exchange)

When you need to open the drawer with no sale, press the **TL/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 **TL/NS** key, a no sale entry is achieved and a non-add code number is printed.

```
#000000000045678
NO SALE
```

3 Automatic Sequencing Key (**AUTO** key) Entries

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

Key operation example

AUTO
AUTO = 500 **6** **22** **TL/NS**)

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 (**%1** and **%2**), discount (**⊖**) or refund, you can void this entry by pressing the **∞** key immediately after the incorrect entry.

Key operation example

1250 **6** **22**
∞
 2 **PLU/SUB**
∞
 600 **8** **24**
%2
∞
 328 **9** **25**
⊖
∞
 250 **RF** **6** **22**
∞
TL/NS

Print

```
DEPT.06      *12.50
DEPT.06      ∅-12.50
PLU.0002     *1.50
PLU.0002     ∅-1.50
DEPT.08      *6.00
15.00%
%2           *0.90
%2           ∅-0.90
DEPT.09      *3.28
(−)          -0.28
(−)          ∅*0.28
DEPT.06      R-2.50
DEPT.06      R∅*2.50

ITEMS        2Q
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/NS** key). This function is applicable to department, PLU/subdepartment and refund entries only.

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

Key operation example	Print																						
<p>Correction of a department entry →</p> <p>Correction of a PLU entry →</p> <p>Correction of a refund entry →</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>DEPT. 06</td><td>*13.10</td></tr> <tr><td>DEPT. 07</td><td>*17.55</td></tr> <tr><td>PLU. 0010</td><td>*7.15</td></tr> <tr><td>PLU. 0012</td><td>*3.60</td></tr> <tr><td>DEPT. 06</td><td>R-2.50</td></tr> <tr><td>DEPT. 07</td><td>*8.25</td></tr> <tr><td>DEPT. 06</td><td>∞-13.10</td></tr> <tr><td>PLU. 0012</td><td>∞-3.60</td></tr> <tr><td>DEPT. 06</td><td>R∞*2.50</td></tr> <tr><td>ITEMS</td><td>30</td></tr> <tr><td>CASH</td><td>*32.95</td></tr> </table>	DEPT. 06	*13.10	DEPT. 07	*17.55	PLU. 0010	*7.15	PLU. 0012	*3.60	DEPT. 06	R-2.50	DEPT. 07	*8.25	DEPT. 06	∞-13.10	PLU. 0012	∞-3.60	DEPT. 06	R∞*2.50	ITEMS	30	CASH	*32.95
DEPT. 06	*13.10																						
DEPT. 07	*17.55																						
PLU. 0010	*7.15																						
PLU. 0012	*3.60																						
DEPT. 06	R-2.50																						
DEPT. 07	*8.25																						
DEPT. 06	∞-13.10																						
PLU. 0012	∞-3.60																						
DEPT. 06	R∞*2.50																						
ITEMS	30																						
CASH	*32.95																						

3 Subtotal Void

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

Key operation example	Print																
<p>Subtotal void {</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>DEPT. 02</td><td>*13.10</td></tr> <tr><td>DEPT. 02</td><td>*13.10</td></tr> <tr><td>DEPT. 06</td><td>*17.55</td></tr> <tr><td>PLU. 0010</td><td>*7.15</td></tr> <tr><td>PLU. 0035</td><td>*10.00</td></tr> <tr><td>SUBTOTAL</td><td>*60.90</td></tr> <tr><td>SBTL ∞</td><td>-60.90</td></tr> <tr><td>***TOTAL</td><td>*0.00</td></tr> </table>	DEPT. 02	*13.10	DEPT. 02	*13.10	DEPT. 06	*17.55	PLU. 0010	*7.15	PLU. 0035	*10.00	SUBTOTAL	*60.90	SBTL ∞	-60.90	***TOTAL	*0.00
DEPT. 02	*13.10																
DEPT. 02	*13.10																
DEPT. 06	*17.55																
PLU. 0010	*7.15																
PLU. 0035	*10.00																
SUBTOTAL	*60.90																
SBTL ∞	-60.90																
***TOTAL	*0.00																

4 Correction of Incorrect Entries not Handled by the Direct or Indirect Void Function

Any errors found after the entry of a transaction has been completed or during an amount tendered entry cannot be voided. These errors must be 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

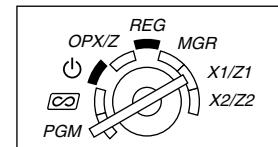
PRIOR TO PROGRAMMING

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.

Note 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 the paper roll is present in the machine. If there is not enough paper on the 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 "26082002" indicates the parameter which must be entered using the corresponding numeric keys.
- Asterisks in the tables shown in the programming details indicate default settings.

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 **#/TM/ST** key.

Procedure

Date(DD/MM/YYYY) → **#/TM/ST**

Key operation example

26082002 **#/TM/ST**
(26 Aug., 2002)

Print

PGM 26/08/2002 — Date

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-hour format) →

Key operation example

1430

Print

PGM
14:30 Time

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). In the 12-hour format, "A" for AM time and "P" for PM time will appear in the rightmost position with the current time.

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.

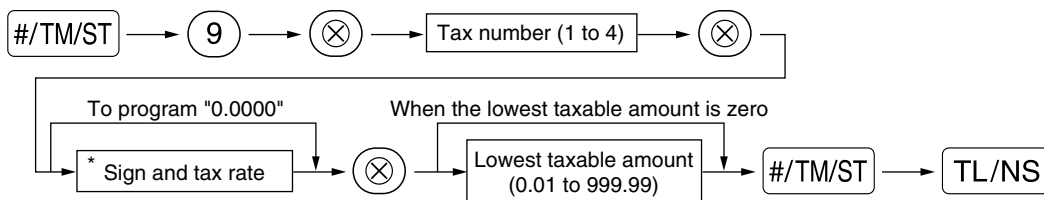
When you program tax rate(s) and taxable status for each department, tax will be automatically added to sales of items assigned to the department according to the programmed tax status for the department and the corresponding tax rate(s).

For details of the tax systems, refer to "Computation of VAT (Value Added Tax)/tax section on page 17. To change the tax system, please refer "Other programming" of "Various Function Programming 1" section (Job code 69) on page 46.

■ Tax rate programming

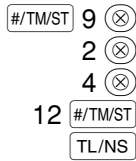
The percent rate specified here is used for tax calculation on taxable subtotals.

Procedure



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

Key operation example



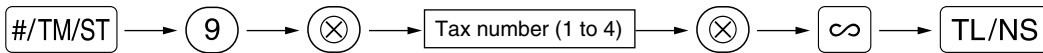
Print

PGM	
T2	4.0000%
	0.12

- 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 ⊗ key in programming a tax rate, cancel it with the Ⓞ 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:

Procedure



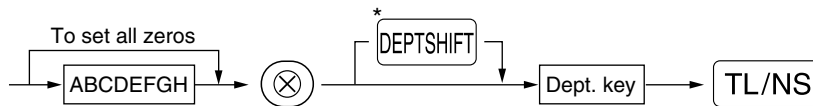
AUXILIARY FUNCTION PROGRAMMING

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.

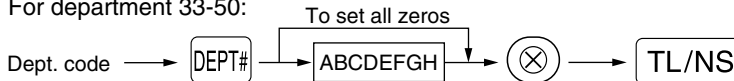
Department status

Procedure



*To program departments 17 through 32, press the department shift key.

For department 33-50:



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

Item:	Selection:	Entry:	
A	VAT 4 or tax 4 status	Taxable	1
		Non-taxable*	0
B	VAT 3 or tax 3 status	Taxable	1
		Non-taxable*	0
C	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)
H	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.

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/NS** 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.

Key operation example

ABCDEFGH → 00011183 ⊗
 2^{TR} TL/NS

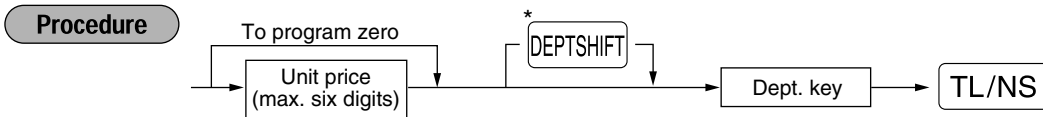
Print

```

*PGM*
DO2      T1      183
DEPT.02  |      -0.00
    Tax status Sign(F)
    
```

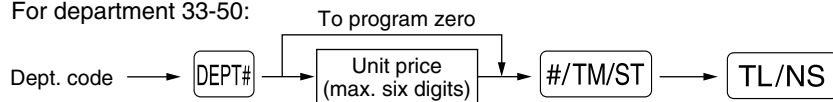
From left, EGH

■ Preset unit price



*To program departments 17 through 32, press the department shift key.

For department 33-50:



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

Key operation example

1000 ¹⁷

Print

```

*PGM*
DO1      T1      083
DEPT.01  10.00
    
```

Unit price

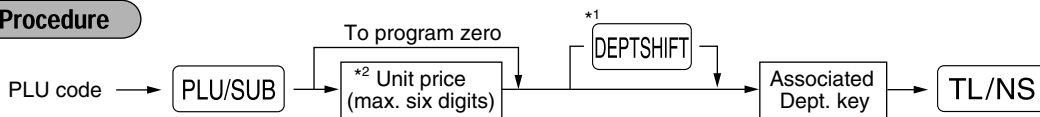
Note If a department is not programmed to allow the entry of preset unit prices in functional programming, the department is automatically changed to allow the entry of preset unit prices by this programming entry.

2 PLU (Price Look-Up) and Subdepartment Programming

The PLU function allows speedy key entries whereby a price is automatically called up when a code is entered. The subdepartment is a kind of “open PLU”, which requires you to enter a price after the PLU code is entered. By default, PLU/subdepartment setting for 1 through 200 codes are possible, and can extend to 1200. To extend the number, please refer to “EJ memory type” on page 40.

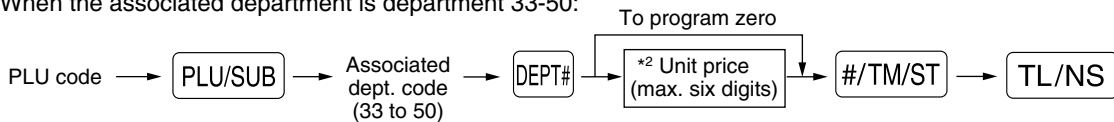
Unit price and associated department assignment

Procedure



*1: To assign departments 17 through 32, press the department shift key.

When the associated department is department 33-50:



*2: 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 key.

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

Key operation example

1
 125 ¹⁹

Print

```

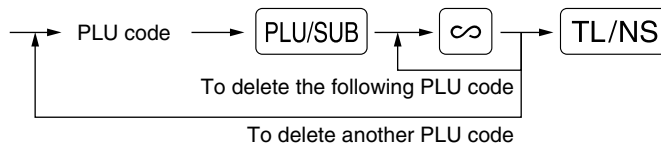
*PGM*
P0001 (03)      1
PLU.0001      1.25
    
```

Unit price
 Associated dept.

PLU code

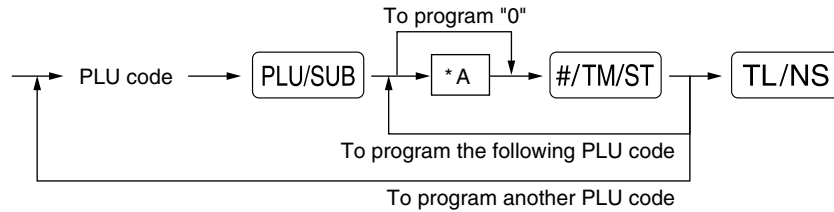
To delete a PLU code, use the following sequence:

Procedure



PLU/subdepartment selection

Procedure



*: 0 for subdepartment or 1 for PLU

Key operation example

1 PLU/SUB
0 #/TM/ST TL/NS

Print

PGM		
P0001 (03)	0	PLU/subdept.
PLU. 0001	1.25	

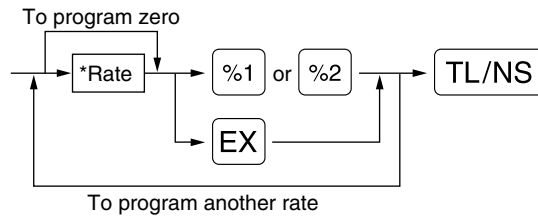
Note When you program the last PLU code, the programming sequence will be complete with a press of the #/TM/ST key.

3 Miscellaneous Key Programming

The cash register provides miscellaneous keys such as %1, %2, ⊖, RF, RA, RCPT/PO, EX, CH, CR1, CR2 and TL/NS.

Rate for %1, %2 and EX

Procedure



*: Rate

0.00 — 100.00 (% rate)

0.000000 — 999.999999 (Currency exchange rate)

Key operation example

10 . 25 %1
1 . 95583 EX
TL/NS

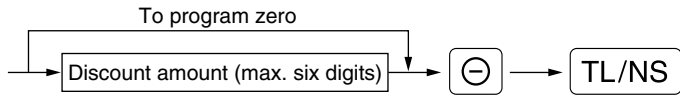
Print

PGM		
F02 %1	000	
L100.00%	-10.25%	Percent rate
F27 EXCH1	002	
	1.955830	Currency exchange rate

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

Amount for ⊖

Procedure



Key operation example

200 ⊖
TL/NS

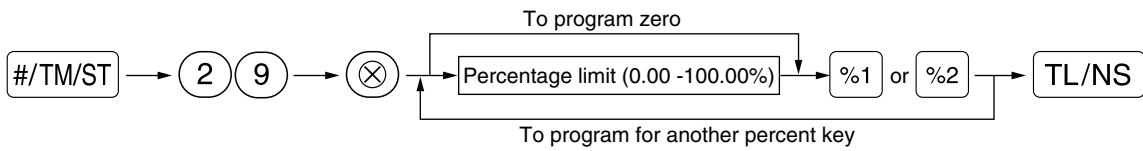
Print

```
*PGM*
F01 (-)           008
                  -2.00
                  -----
                  Discount amount
```

Percent rate limitation for %1 and %2

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

Procedure



Note

- Percent entries that exceed the upper limit may be overridden in the MGR mode.
- 10.00% can be entered as 1 0 or 1 0 • 0 0 . The • key is needed only for fractional entry.

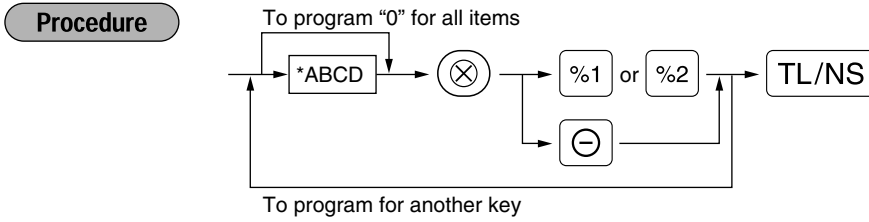
Key operation example

#/TM/ST 29 ⊗
15 • 00 %1
TL/NS

Print

```
*PGM*
F02 %1           000
L 15.00%        -10.25%
                  -----
                  Percentage limit
```


Function parameters for %1, %2 and ⊖



*: Item:	Selection:	Entry:
A +/- sign	+ (premium) sign	0
	- (discount) sign*	1
B Item % / Item ⊖	Allow*	0
	Disallow	1
C Subtotal % / Subtotal ⊖	Allow*	0
	Disallow	1
D Entry digit limit for discount key		0-8 (default:8)

When programming for percent keys, 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

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.

Key operation example

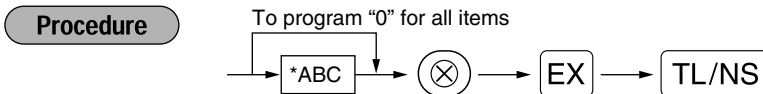
1006 ⊗
⊖ TL/NS

Print

```
*PGM*
F01 (-)      006
              -2.00
```

From left, BCD
Sign(A)

Function parameters for EX



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

Key operation example

102 ⊗
EX TL/NS

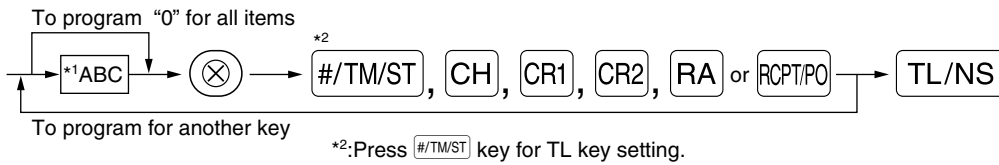
Print

```
*PGM*
F27 EXCH1   102
              1.955830
```

From left, ABC

Function parameters for RA, RCPT/PO, CH, CR1, CR2 and TL/NS (when using as TL key)

Procedure



*1:Item:	Selection:	Entry:
A Footer printing*	Allow	1
	Disallow*	0
B Amount tendered entry*	Compulsory	1
	Non-compulsory (for CH and TL/NS)*	0
	Inhibit (for CR1 and CR2)*	0
C Entry digit limit	For CH, CR1, CR2 and TL/NS	0-8 (default:8)
	For RA and RCPT/PO	0-9 (default:9)

*When programming for RA or RCPT/PO, always enter 0 for A and B.

Footer printing (only for CH, CR1, CR2 and TL/NS)

- 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 37.

Amount tendered compulsory (only for CH, CR1, CR2 and TL/NS)

- You may select amount tendered, compulsory or optional, for the TL/NS and CH keys.
- You may select amount tendered, compulsory or inhibited, for the CR1 and CR2 keys.

Entry digit limit

- For the CH, CR1, CR2, RA and RCPT/PO keys program upper limit entry amount for the tendered amount. For the TL/NS 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 (X)
CH TL/NS

Print

PGM
F24 CHECK 018 — From left, ABC

4 Text Programming

The register allows you to program text for clerk names, department item names, PLU/subdepartment item names, if necessary. There are two ways for programming text: using character keys on the keyboard or entering character codes with numeric keys on the keyboard.

Using character keys on the keyboard

You can enter characters according to the small figures printed in the lower right position of the tops. For the layout, please refer to “Keyboard” section on page 5.

The following are used as control keys for character entry:

- SHIFT** Toggles between upper-case and lower-case letters. By default, the upper-case letter is selected. Once the **SHIFT** key is pressed, you are locked in for entering lower-case letters. “_” lights up at the SHIFT position of the display when lower-case letters entry is selected.
- NUMBER** Press the **NUMBER** key to enter numeric characters. For example to enter “1”, press the **NUMBER** and **1** key. If you press the **1** key without pressing the **NUMBER** key, the cash register goes to character codes entry mode. Once the **NUMBER** key is pressed, you are locked in for entering numeric characters. “_” lights up at the NUMBER position of the display when numeric characters entry is selected.
- DC** Toggles between single-size and double-size characters. By default, the single-size character is selected. Once the **DC** key is pressed, you are locked in for entering double size characters. “_” lights up at the DC position of the display when double-size characters entry is selected.
- BS** Backs up the cursor, erasing the character to the left.

Example To program the word “Clerk01” with the letter “C” being double size.

To make the letter “C” double size character	DC C
To make character size return to normal size	DC
To toggle the characters to lower-case letters	SHIFT
	L E R K
To enter numbers	NUMBER 0 1

Entering character codes with numeric keys on the keyboard

Numerals, letters and symbols are programmable by entering the character code and the **00** key. (If numeric characters entry is selected, that is, “_” lights up at the NUMBER position of the display, press the **NUMBER** key to release it.) Set the alphanumeric character code table on the next page. By 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.
- All three digits of the character code MUST be entered (even if it starts with zero).

Example To program the word “SHARP” in double-size characters

253 **00** 083 **00** 072 **00** 065 **00** 082 **00** 080 **00**

S
H
A
R
P

When you press an appropriate number key (job code number) and press the **0** key for text entry just after you start programming with the **#/TM/ST** key, the cash register will automatically be ready for text entry.

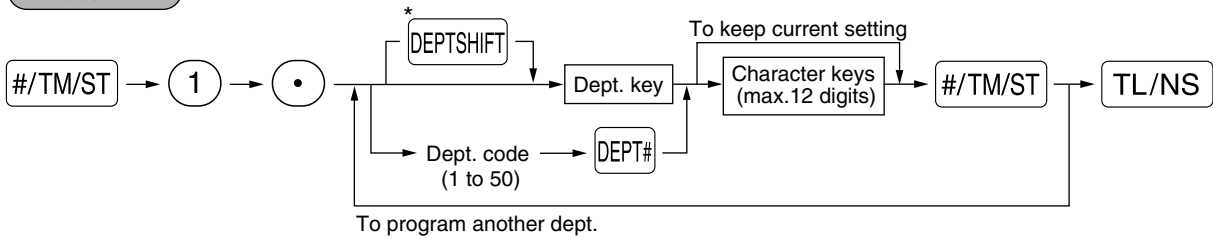
Alphanumeric character code table

Code	Character	Code	Character	Code	Character	Code	Character	Code	Character
001	á	046	.	091	Ä	136	→	193	ı
002	â	047	/	092	Ö	137	↷	194	Ġ
003	ê	048	0	093	Ü	138	↻	195	Ş
004	î	049	1	094	^	139	◀	196	Ğ
005	ì	050	2	095	_	140	▶	197	ğ
006	í	051	3	096	`	141	F	198	Ɔ
007	ô	052	4	097	a	142	T	199	ƙ
008	ó	053	5	098	b	143	↓	200	↳
009	û	054	6	099	c	144	ç	201	↓
010	ú	055	7	100	d	145	°	202	Ž
011	œ	056	8	101	e	146	ı	203	Đ
012	ú	057	9	102	f	147	Û	204	đ
013	ú	058	:	103	g	148	à	205	Č
014	ř	059	;	104	h	149	Æ	206	č
015	ó	060	<	105	i	150	ø	207	€
016	Λ	061	=	106	j	151	Å	208	Ɔ
017	Ψ	062	>	107	k	152	Ω	209	˘
018	Γ	063	?	108	l	153	é	210	ë
019	¨	064	@	109	m	154	è	211	š
020	Ω	065	A	110	n	155	Pt	212	č
021	Δ	066	B	111	o	156	i	213	ž
022	Θ	067	C	112	p	157	Ñ	214	ý
023	Ξ	068	D	113	q	158	ò	215	ù
024	Π	069	E	114	r	159	£	216	ň
025	Σ	070	F	115	s	160	¥	217	˘
026	Υ	071	G	116	t	161	°	218	˘
027	Φ	072	H	117	u	162	Γ	219	ř
028	Ú	073	I	118	v	163	J	224	*
029	Ú	074	J	119	w	164	˘	225	§
030	Ö	075	K	120	x	165	˘	226	Ø
031	Ó	076	L	121	y	177	Á	227	˘
032	(space)	077	M	122	z	178	í	228	↑
033	!	078	N	123	{	180	Ā	229]
034	”	079	O	124	|	181	ā	230	[
035	#	080	P	125	}	182	Ē	231	“
036	\$	081	Q	126	β	183	ē	232	ä
037	%	082	R	127	ç	184	Ī	233	ö
038	&	083	S	128	!!	185	ī	234	ü
039	,	084	T	129	₁	186	Ū	235	æ
040	(	085	U	130	₂	187	ū	236	á
041	)	086	V	131	₃	188	Ÿ	237	É
042	*	087	W	132	₄	189	ŋ	238	ñ
043	+	088	X	133	1/2	190	Č	253	*(DC)
044	,	089	Y	134	F _T	191	Š		
045	-	090	Z	135	←	192	Ç		

*(DC): Double-size character code

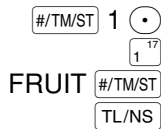
■ Department text (item label) (12 digits)

Procedure



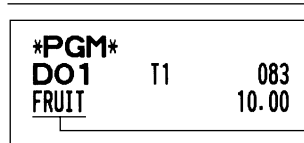
*To program departments 17 through 32, press the department shift key.

Key operation example



(Programming FRUIT for dept.1)

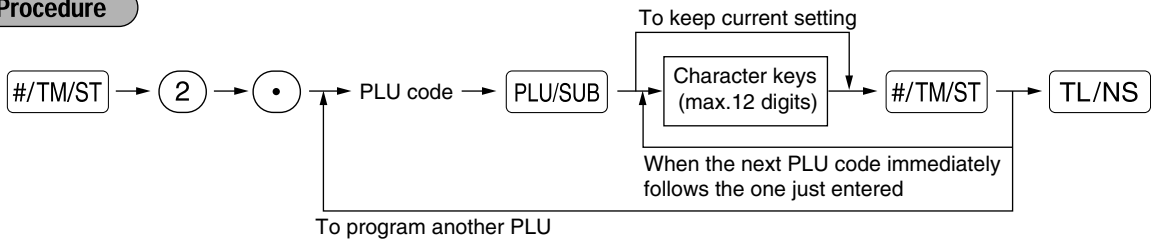
Print



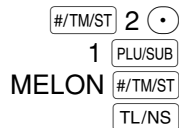
Text programmed for dept. 1

■ PLU text (item label) (12 digits)

Procedure

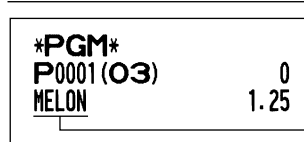


Key operation example



(Programming MELON to PLU1)

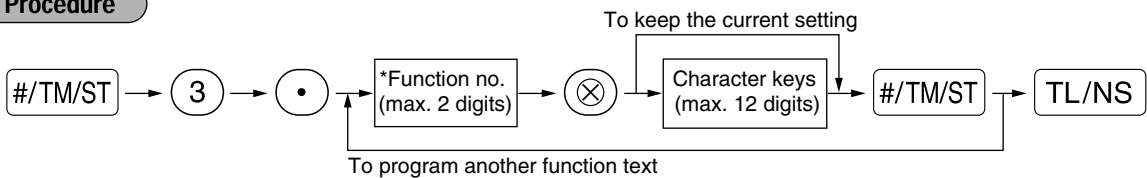
Print



Text programmed for PLU code 1

■ Function text (12 digits)

Procedure



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

Key operation example

#/TM/ST 3
 25
 CARD NUMBER 1 #/TM/ST
 TL/NS

Print

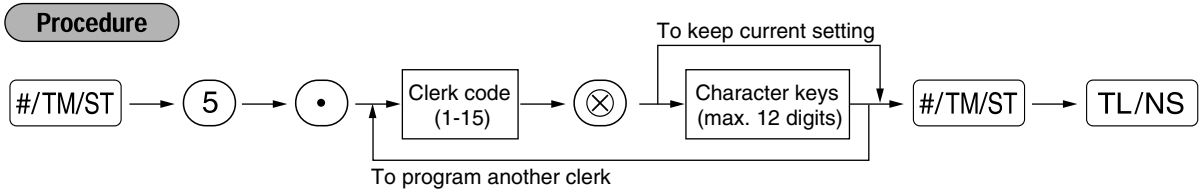
PGM
F25 CARD1 008

(Programming CARD1 for credit 1)

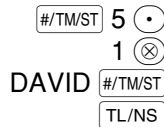
■ **List of function texts**

Function no.	Key or function	Default setting	Function no.	Key or function	Default setting
1	⊖	(-)	33	Change for cheque	CHK/CG
2	%1	%1	34	Customer	GUEST
3	%2	%2	35	Paid total	PAID TL
4	Differ	DIFFER	36	Domestic currency 1	DOM.CUR1
5	Taxable 1 subtotal	TAX1 ST	37	Domestic currency 2	DOM.CUR2
6	Taxable 2 subtotal	TAX2 ST	38	Dom. currency for EX cheque	DOM.CUR1
7	Taxable 3 subtotal	TAX3 ST	39	Dom. currency for EX credit	DOM.CUR1
8	Taxable 4 subtotal	TAX4 ST	40	Cheque in drawer	*CH ID
9	VAT/tax 1	VAT 1	41	(+) Dept total	*DEPT TL
10	VAT/tax 2	VAT 2	42	(-) Dept total	DEPT (-)
11	VAT/tax 3	VAT 3	43	Net 1 (Taxable 1 - VAT/tax 1)	NET 1
12	VAT/tax 4	VAT 4	44	Net 2 (Taxable 2 - VAT/tax 2)	NET 2
13	Net 1	NET1	45	Net 3 (Taxable 3 - VAT/tax 3)	NET 3
14	Net 2	NET2	46	Net 4 (Taxable 4 - VAT/tax 4)	NET 4
15	Refund	REFUND	47	Subtotal	SUBTOTAL
16	Void	∞	48	Merchandise subtotal	MDSE ST
17	Void mode total	∞MODE	49	Total	*** TOTAL
18	Manager void	MGR ∞	50	Change	CHANGE
19	Subtotal void	SBTL ∞	51	Sales q'ty	ITEMS
20	No sale	NO SALE	52	Average	AVE.
21	RA	***RA	53	Total tax	TTL TAX
22	PO	***PO	54	Net without tax	NET
23	Cash	CASH	55	Department report title	DEPT
24	Cheque	CHECK	56	PLU report title	PLU
25	Credit 1	CREDIT1	57	Transaction report title	TRANS.
26	Credit 2	CREDIT2	58	Clerk report title	CLERK
27	Exchange (Preset rate)	EXCH1	59	Hourly report title	HOURLY
28	Exchange (Open rate)	EXCH2	60	Non add symbol (8 chara.)	#
29	Exchange cheque	EX1 CHK	61	Copy receipt title	COPY
30	Exchange credit	EX1 CR	62	EJ report title	EJ
31	Cash in drawer	**** CID	63	EJ report end title	EJ END
32	Cash/cheque in drawer	CA/CH ID			

■ Clerk names (12 digits)



Key operation example

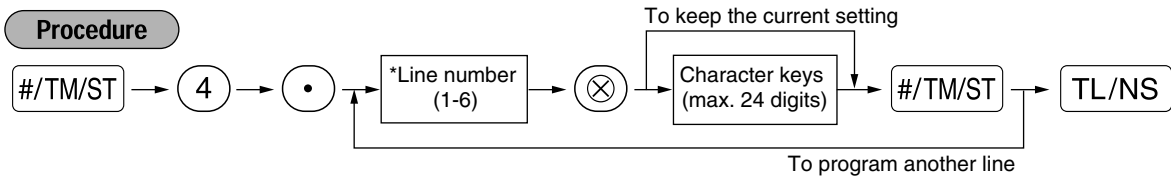


Print



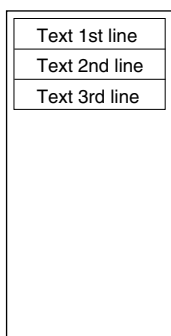
■ Logo messages (6 lines and 24 digits for each line)

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 47 for the programming details.) The options are listed below:

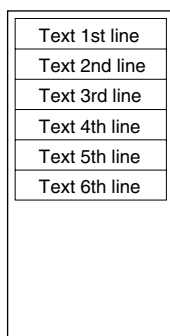


- * "Header 3-line message" type: 1 to 3
- "Header 6-line message" type: 1 to 6
- "Header 3-line and footer 3-line message" type: 1 to 6 (1 to 3 as header, 4 to 6 as footer)

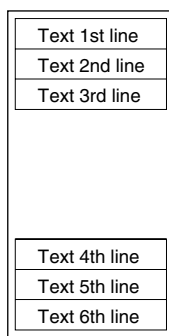
Logo message print format (3 types)



Header 3-line message



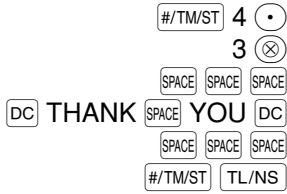
Header 6-line message



Header 3-line message and footer 3-line messages

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

Key operation example



Print

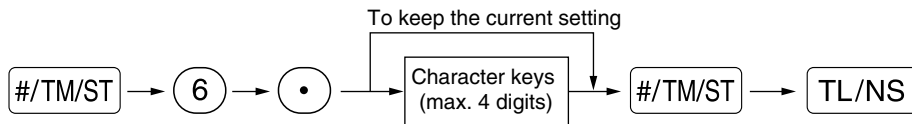


Note A 6-line logo message is preprogrammed when shipped. Please start entering from the first line when you first program a logo message.

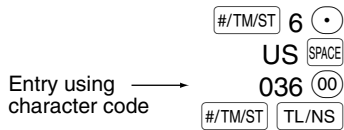
Foreign currency symbol (4 digits)

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

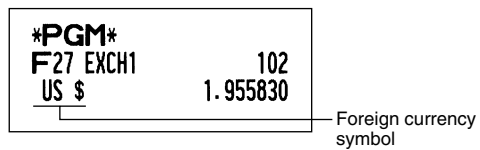
Procedure



Key operation example



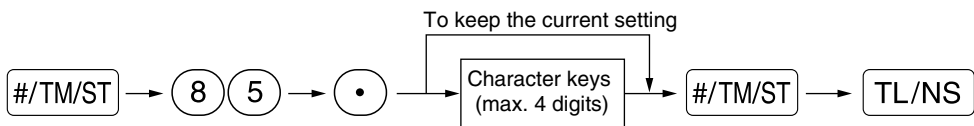
Print



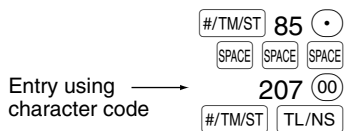
Domestic currency symbol (4 digits)

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

Procedure



Key operation example



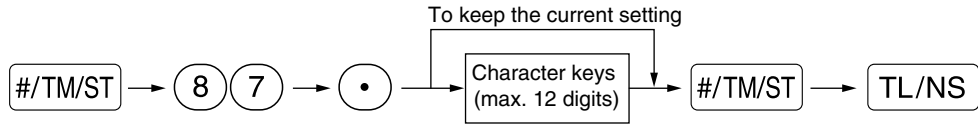
Print



■ 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.

Procedure



Key operation example



Print



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

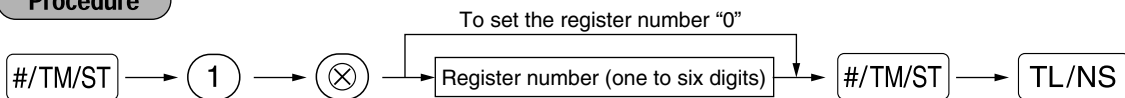
Register number and consecutive number are printed on every receipt or journal.

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 or journal is issued.

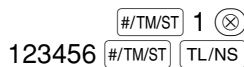
For consecutive number programming, enter a number (max. 4 digits) that is one less than the desired starting number.

■ Register number

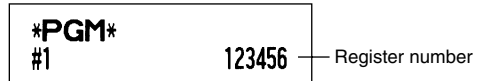
Procedure



Key operation example

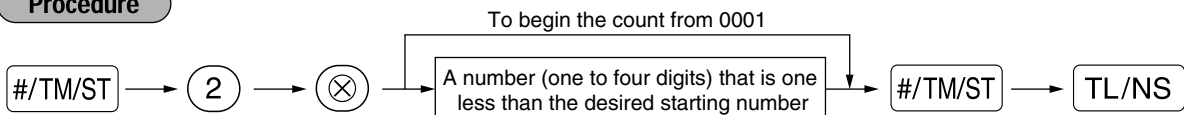


Print



■ Setting consecutive numbers

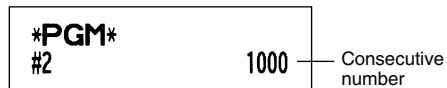
Procedure



Key operation example



Print



2 Electronic Journal (EJ) Programming

The cash register provides the electronic journal (EJ) function. By default, a maximum of 2000 lines can be stored in memory. By decreasing the storable line numbers to 1000 lines you can expand the available number of PLU codes to 1200.

For reading journal data, refer to “EJ REPORT READING AND RESETTING” (page 60).

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.

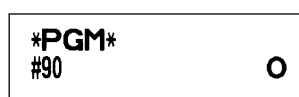


*A: 0 for EJ 1000 lines and PLU 1200 codes
 1 for EJ 2000 lines and PLU 200 codes

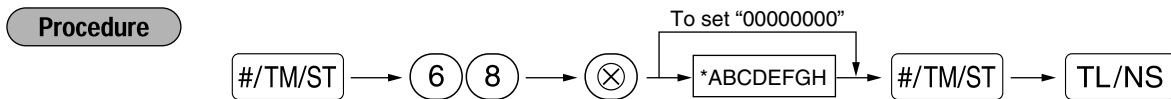
Key operation example



Print



Function parameters for EJ



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

Temporary EJ printing during transaction

- If selecting “enable”, you can print journal data of a current transaction recorded in EJ memory by pressing the **RCPT/PO** 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

- For data of program reading operation, the header information only is printed. For X/Z reports, the header information only is printed. (Receipt sample for Header Information only)

```

26/08/2002 14:54      01
000000#0176 CLERK01
**X1*
*  DEPT  *
*TRANS.*
    
```

Action when EJ memory area is full

- By default, when the memory for EJ becomes nearly full, the cash register shows decimal points at the 8th and 9th positions 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 not show EJ memory nearly full message. When “2” is selected, the cash register shows EJ memory nearly full message and when the memory gets full, the cash register locks the sales/data entry with a display of the memory full message “E-E”. You must issue an EJ report (Z1 report) at this time.

Key operation example

```

00100002  #/TM/ST 68 ⊗
           #/TM/ST TL/NS
    
```

Print

```

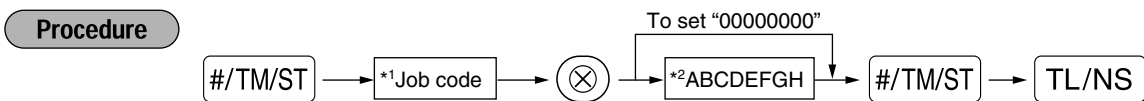
*PGM*
#68  00100002
    
```

3 Various Function Selection Programming 1

The cash register provides various detailed functions listed below.

- Function selection for miscellaneous keys
- Print format
- Receipt print format
- Others

For this programming, the job code entry style is applied. You can continue programming until you press the **TL/NS** 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.

Key operation example

```

00000100  #/TM/ST 5 ⊗
           #/TM/ST TL/NS
    
```

Print

```

*PGM*
#5   00000100
    
```

■ Function selection for miscellaneous keys

Job code: 5

* Item:	Selection:	Entry:
A	Paid-out in the REG-mode	Enable*
		0
B	Received on account in the REG-mode	Disable
		1
C	Subtotal void in the REG-mode	Enable*
		0
D	Indirect void in the REG-mode	Disable
		1
E	Direct void in the REG-mode	Enable*
		0
F	Refund entry in the REG-mode	Disable
		1
G	No sale in the REG-mode	Enable*
		0
H	Fractional quantity entry	Disable
		1

■ Print format

Job code: 6

* Item:	Selection:	Entry:
A	Printing style	Journal printing
		0
B	Receipt print form	Receipt printing*
		1
C	Time print on receipts/journals	Total
		0
D	Date print on receipts/journals	Detailed*
		1
E	Consecutive no. print	Yes*
		0
F	Separator line in reports	No
		1
G	Zero skip in PLU report	Yes*
		0
H	Zero skip in full sales/clerk/hourly report	No
		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

Job code: 7

* Item:	Selection:	Entry:
A	Always enter 0.	0
B	Always enter 0.	0
C	Subtotal print with a press of subtotal key	No*
		Yes
D	Always enter 0.	0
E	VAT/tax amount print	Yes*
		No
F	Taxable amount print	Yes*
		No
G	Net amount print	Yes*
		No
H	Purchase no. print	Yes*
		No

■ Other programming

Job code: 61

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

Job code: 62

* Item:	Selection:	Entry:
A	Always enter 0.	0
B	Error beep for misoperation	Lock error
		Misoperation*
C	Key catch sound	Yes*
		No
D	Buffered keyboard	Yes*
		No
E	Void mode	Enable*
		Disable
F	Printing of void mode in Z2 report	Yes*
		No
G	Printing of void mode in Z1 report	Yes*
		No
H	Addition to the hourly total in VOID mode	No*
		Yes

Job code: 63

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

Job code: 64

* Item:	Selection:	Entry:
A Printing of GT1 on Z report	Yes*	0
	No	1
B Printing of GT2 on Z report	Yes*	0
	No	1
C 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 report	No*	0
	Yes	1
H OP X/Z report	Enable*	0
	Disable	1

Job code: 66

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

Compression print on journal at REG, MGR and VOID modes

- This selection is valid only when "Printing style" (job code 6) is set as "journal printing".

Job code: 67

* Item:	Selection:	Entry:
A Rounding amount printing	No*	0
	Yes (for Australian system)	1
B Total amount rounding when a transaction is finalized directly by [CH], [CR1] or [CR2] key.	Rounding*	0
	Not rounding (for Australian system)	1
C 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)
E Application of rounding	Item and payment*	0
	Payment	1
F Limit of the least significant digit in entering amount of item	Arbitrary*	0
	0 only	1
	0 and 5 only	2
G Difference of memory before rounding and after rounding	No*	0
	Yes	1
H Limit on the least significant digit in entering amount of payment	Arbitrary*	0
	0 only	1
	0 and 5 only	2

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, Netherlands or Norway, 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)

Difference of memory before rounding and after rounding (G)

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

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

	CD	E	F	G	H
Australia	82	Payment*	Arbitrary	Yes	0 and 5 only
Switzerland	82	Item & payment	0 and 5 only	No	0 and 5 only
Netherlands	82	Payment	Arbitrary	Yes	0 and 5 only
Norway	54	Payment	Arbitrary	Yes	0 only

* Applied to payment by cash only. For payment by cheque or credit, set it in "B".

Job code: 69

* Item:	Selection:	Entry:
A	Always enter 0.	0
B	Always enter 0.	0
C	Always enter 1.	1
D	Rounding of foreign currency for <input type="checkbox"/> EX	Rising to unit*
		Round off (4 down/5 up)
E	Tax system	Auto tax 1-4
		Auto VAT 1-4*
		Manual VAT 1-4
		Manual VAT 1
		Manual tax 1-4
		Auto VAT 1 & Auto tax 2-4
F	Tax print when taxable subtotal is zero	No*
		Yes
G	Tax print when tax is zero	Yes*
		No
H	Rounding system	Normal*
		Sweden
		Denmark

Rounding system

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

4 Various Function Selection Programming 2

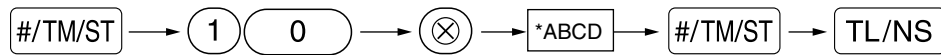
The cash register provides various options so you can use the register to suit your sales needs.

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)
- Training clerk specification (none) - If you specify a clerk code who is trained for use on this cash register, the cash register will go into training mode when the clerk code is registered 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

Procedure



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

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

Key operation example

#/TM/ST 10 ⊗
 0060 #/TM/ST TL/NS

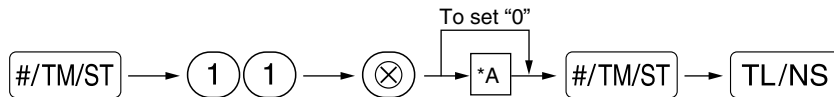
Print

PGM
 #10 0060

■ 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 37.

Procedure



- *A: Logo message type
- 0: Header 3-line message
- 3: Header 6-line message (default)
- 5: Header 3-line message and footer 3-line message

Key operation example

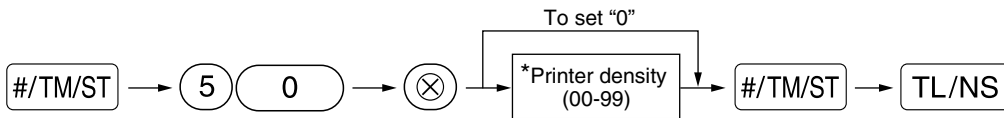
#/TM/ST 11 ⊗
 0 #/TM/ST TL/NS

Print

PGM
 #11 0

■ Thermal printer density

Procedure



* By default, 50 is set. To make the print darker, set a larger number, and to make the print lighter, set a smaller number.

Key operation example

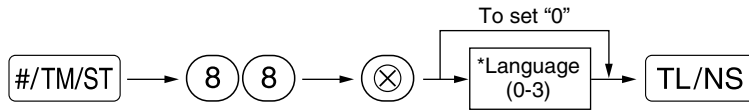
#/TM/ST 50 ⊗
 70 #/TM/ST TL/NS

Print

PGM
 #50 70

Language selection

Procedure



*Language: 0: English 1: German 2: French 3: Spanish

Key operation example

#/TM/ST 88 (X)
1 TL/NS

Print

```
*PGM*
#88      1
```

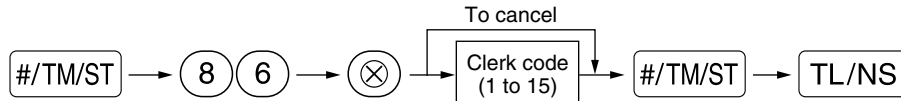
Caution

When you change the language, the text such as clerk name, logo message and function text, which you programmed, will be reset to the default settings.

Training clerk specification for training mode

For the details of clerk training, please refer to "TRAINING MODE" on page 56.

Procedure



Key operation example

#/TM/ST 86 (X)
15 #/TM/ST TL/NS

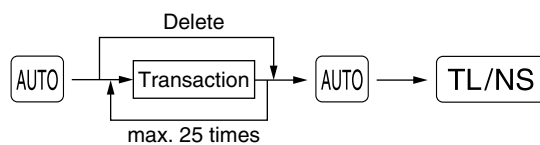
Print

```
*PGM*
#86      15
```

AUTO key programming — Automatic sequencing key

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

Procedure



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

Key operation example

AUTO setting → 2 PLU/SUB 100 (AUTO)
6 (22) (AUTO)
TL/NS

Print

```
*PGM*
#01
2
PLU
1
0
0
D06
```

Note

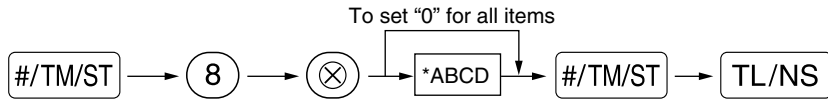
When the **AUTO** key has been programmed to execute a report job function etc., the mode switch must be in the appropriate position (REG, MGR, OPX/Z, X1/Z1 or X2/Z2).

5 EURO Programming

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

EURO system settings

Procedure



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

Printing exchange total amount and change amount on receipt or 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:

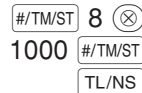
In case that "Division" is selected:

$$\text{Domestic currency amount} \div \text{Exchange rate} = \text{Exchange amount}$$

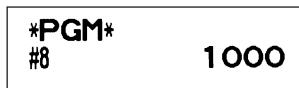
In case that "Multiplication" is selected

$$\text{Domestic currency amount} \times \text{Exchange rate} = \text{Exchange amount}$$

Key operation example

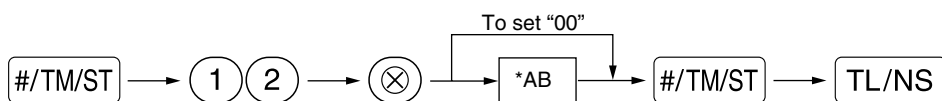


Print



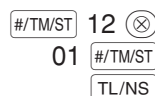
Automatic EURO modification operation settings

Procedure

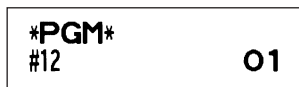


* Item:	Selection:	Entry:
A Converting the preset unit price of Dept./PLU in the automatic modification operation for EURO (job #800 in the X2/Z2 mode)	Yes*	0
	No	1
B Automatic modification operation for EURO (job #800 in the X2/Z2 mode) at the preset date	Compulsory*	0
	Non-compulsory	1

Key operation example



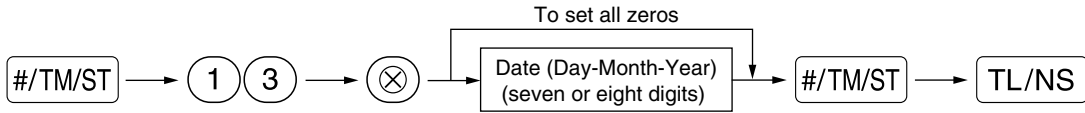
Print



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

Procedure



Key operation example

```

    #/TM/ST 13 ⊗
    01072002 #/TM/ST
             TL/NS
  
```

Print

```

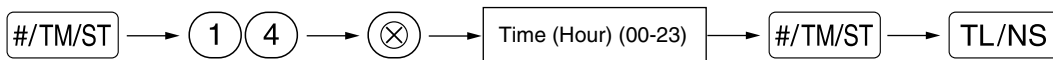
    *PGM*
    #13      01/07/2002
  
```

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

Procedure



Key operation example

```

    #/TM/ST 14 ⊗
    10 #/TM/ST
       TL/NS
  
```

Print

```

    *PGM*
    #14      10:00
  
```

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.

6 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/NS
Programming report 2	2 → TL/NS
Auto key programming report	1 → TL/NS
Printer density programming report	3 → TL/NS
PLU programming report	Start PLU code → ⊗ → End PLU code → PLU/SUB

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

Sample printouts

1 Programming report 1

PGM

D01	T1	083
FRUIT		10.00
D02	T1	183
DEPT.02		-13.10
D03	T1	081
DEPT.03		0.00

D50 T1 081
DEPT.50 0.00
F01 (-) 006
F02 %1 000
L 15.00% -10.25%
F03 %2 000
L100.00% -0.00%
F04 DIFFER
F05 TAX1 ST

F20 NO SALE
F21 ***RA 9
F22 ***PO 9
F23 CASH 008
F24 CHECK 018
F25 CREDIT1 008
F26 CREDIT2 008
F27 EXCH1 102
€ 1.955830
F28 EXCH2
F29 EX1 CHK
F30 EX1 CR
F31 ****CID

F61 COPY
F62 EJ
F63 EJ END
SHARP
PRESENTS THE
XE-A201
SHARP
IS
THE BEST

#5 00000100
#6 11000011
#7 00000000
#8 0010
#10 0060
#11 3
#12 01
#13 01/07/2002
#14 10:00
#30 000001
#31 0
#32 06
#33 002 013
#35 007
T1 -----
T2 4.0000%
T3 -----
T4 -----
C#01 DAVID
C#02 CLERK02

C#14 CLERK14
C#15 CLERK15

Mode

Dept. code

Dept. text

Dept. unit price w/sign

Dept. function

Minus department

Tax status

Function no.& its text

Function parametrs (B-D)

Discount amt. w/sign

Function parametrs (B-D)

Percent rate with sign

Percent limit

Entry digit limit

Function parametrs (A-C)

Foreign currency symbol/Rate

Logo Message

Function selection for miscellaneous keys (A-H)

Print format (A-H)

Receipt print format(A-H)

EURO system settings (A-D)

Power save mode(A-D)

Logo message print format

Automatic EURO modification operation settings (AB)

Date setting for EURO modification operation

Time setting for EURO modification operation

*Job code #30 to #35 are fixed settings, for which you cannot change the settings.

Tax rate

Min. taxable amount

Clerk code/name

2 Programming report 2

PGM	
#61	00100112
#62	01000000
#63	01000001
#64	00000000
#65	00000000
#66	10001100
#67	00000010
#68	00100011
#69	00101000
#70	00000000
#71	
GT2	*0000000000.00
#72	
GT3	*0000000000.00
#76	Z1 0000
#77	Z2 0000
#85	*
#86	15
#87	**TRAINING**
#88	0
#90	1
#95	50

Job code

A to H from the left

* Job code #65, 70, 71, 72, 76, 77 and 95 are fixed settings, for which you cannot change the settings.

Training clerk specification

Training mode text

Language selection

EJ memory type

3 Auto key programming report

PGM	
#01	
	2
	PLU
	1
	0
	0
	D06

4 Printer density programming report

PGM	
#50	50
10	: 0123456789AB
20	: 0123456789AB
30	: 0123456789AB
40	: 0123456789AB
50	: 0123456789AB
60	: 0123456789AB
70	: 0123456789AB
80	: 0123456789AB
90	: 0123456789AB

Entered value

Printer density

Printing density example

5 PLU programming report

PGM	
	0001-0015
PLU code	P0001(03)
PLU text	MELON
	P0002(01)
	PLU.0002
	P0003(32)
	PLU.0003
	PLU.0014
	P0015(01)
	PLU.0015

Range

Mode parameter

Unit price

Associated dept. code

EURO MIGRATION FUNCTION

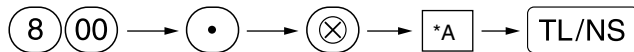
Your register can be modified to correspond with each period set for the introduction of EURO, and in your register each currency is treated as shown on the table below depending on which period you are in. Basically your register can be automatically modified to correspond to the introduction of EURO 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
Currency	EURO	Exchange key (Preset rate entry)	Domestic currency
	National currency (DM, F, etc.)	Domestic currency	Exchange key (Preset rate entry)
	Foreign currency	Exchange key (Manual rate entry)	Exchange key (Manual rate entry)

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".



- *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
Difference of memory before rounding and after 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 **[%1]**, **[%2]** and **[⊖]**, 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 %1, %2 and EX” on page 29.

Exchange rate entry selection

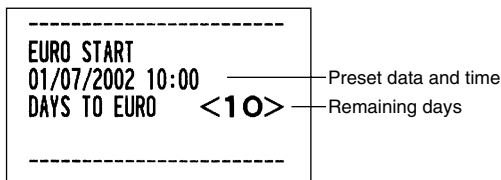
When you treat EURO currency in the exchange key, you must apply preset rate entry. So, make enable for preset rate entry for period 1 and period 2. For programming details, refer to “Function parameters for EX” on page 31.

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 49.

**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 “E-EU” 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.






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 48.

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

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

Key operation example

A clerk set in training → 15 
 1000 
 3 



Print

26/08/2002 16:34	15
123456#0152 CLERK15	
TRAINING	
DEPT.05	*10.00
3x 24.00	
DEPT.03	*72.00
ITEMS	4Q
CASH	*82.00

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, 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			Key operation
	OPX/Z	X1/Z1	X2/Z2	
Flash report: (Only display) To clear the display, press the key or turn the mode switch to another position.	X	—	—	Dept. code → : Department total amount [For dept. 1 to 16; Dept. key (to) For dept. 17 to 32; → Dept. key (to)] key: Amount of cash in drawer key: Sales total
Full sales report	—	X1, Z1	X2, Z2	Reading: Resetting: →
Individual clerk report	X, Z	—	—	Reading: Resetting: → (The report of the current clerk)
Full clerk report	—	X1, Z1	—	Reading: Resetting: →
PLU sales report	—	X1, Z1	—	All PLUs Reading: → Start PLU code → → End PLU code → Resetting: → Start PLU code → → End PLU code → →
Hourly report	—	X1, Z1	—	Reading: Resetting: →

- 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.

2 Daily Sales Totals

Full sales report

Sample report

*Z1 *		Mode title*1
21 0001		Reset counter
*2 GT1	*00000001308.72	Net grand total (GT2-GT3)
GT2	*00000001423.50	Grand total of plus registration
GT3	-00000000114.78	Grand total of minus registration
TR	*00000000089.85	Grand total of training mode registration
* DEPT *		
D01	51 Q	Dept. code
DEPT. 01	*417.59	Sales q'ty
D02	7 Q	Sales amount
DEPT. 02	*146.96	
D04	1 Q	
DEPT. 04	*12.30	
D05	4 Q	
DEPT. 05	*5.60	

DEPT. 35	-1.00	
D50	6 Q	
DEPT. 50	*90.00	
*DEPT TL	152 Q	"} "+" dept. counter and total
	*1334.44	

D03	5 Q	
DEPT. 03	-25.79	
DEPT (-)	5 Q	"} "-" dept. counter and total
	-25.79	

*TRANS. *		
(-)	1 Q	"} Subtotal counter and total
	-1.00	
%1	1 Q	"} Subtotal percent 1 counter and total
	-1.13	
%2	1 Q	
	*2.20	
NET 1	*1308.72	Net sales total *3

TAX1 ST	*175.03	Taxable 1 total
VAT 1	*26.07	VAT 1 total
TAX2 ST	*175.03	
VAT 2	*15.91	
TAX3 ST	*175.03	
VAT 3	*8.33	
TAX4 ST	*175.03	
VAT 4	*12.21	
TTL TAX	*62.52	Tax total
NET	*1246.20	Net total without tax *4

- *1: When you take X1 report, "X1" is printed.
- *2: Printed in the Z1 report only.
- *3: When "difference of memory" is set to "yes" the following is displayed here.

DIFFER	-0.05
--------	-------

(-)	1 Q	-0.75	"} Item counter and total
%1	1 Q	-0.60	"} Item percent 1 counter and total
%2	1 Q	*0.75	
REFUND	6 Q	*24.70	"} Refund counter and total
∅	13 Q	*57.56	"} REG-mode void counter and total
∅ MODE	1 Q	*3.25	"} Void-mode transaction counter and total
MGR ∅	1 Q	*3.25	"} Manager item void counter and total
SBTL ∅	1 Q	*60.90	"} Subtotal void counter and total

NO SALE	2 Q		"} No-sales counter
***RA	2 Q	*96.00	"} Received on account counter and total
***PO	3 Q	*69.00	"} Paid out counter and total

GUEST	52 Q		"} Customer counter
PAID TL		*1308.72	"} Paid total
AVE.		*25.17	"} Paid total average per customer

CASH	41 Q	*815.42	"} Cash counter and total
CHECK	3 Q	*33.15	"} Cheque sales counter and total
CREDIT1	2 Q	*72.50	"} Credit1 sale and tendering counter and total
CREDIT2	2 Q	*80.00	
EXCH1	2 Q	€300.00	"} Exchange counter and total (in preset rate entry)
DOM. CUR1		*153.38	"} Domestic currency
EXCH2	1 Q	100.00	"} Exchange manual rate entry counter and total
DOM. CUR2		*78.42	
EX1 CHK	2 Q	€100.00	"} Exchange check (in preset rate entry)
DOM. CUR1		*51.11	
EX1 CR	1 Q	€107.57	"} Exchange credit (in preset rate entry)
DOM. CUR1		*55.00	

****CID		*812.16	"} Cash in drawer
*CH ID		*33.15	"} Cheque in drawer
CA/CH ID		*845.31	"} Cash + cheque in drawer
CHK/CG		*6.96	"} Change total for cheque tendering

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

NET2	*1375.17	"} Sales total including tax
------	----------	------------------------------

■ Clerk reports

Individual clerk report

• Sample report

OPX		Mode title*
* CLERK *		Report title
O1 #	DAVID	Clerk code
GUEST	48 Q	Clerk name
PAID TL	*1242.62	Customer counter
AVE.	*25.89	Paid total
		Average

∅	13 Q	
	*57.56	
∅ MODE	1 Q	
	*3.25	
MGR ∅	1 Q	
	*3.25	
SBTL ∅	1 Q	
	*60.90	

EXCH1	2 Q	
	*300.00	
DOM. CUR1	*153.38	
EXCH2	1 Q	
	100.00	
DOM. CUR2	*78.42	
***CID	*759.06	
*CH ID	*20.15	
CA/CH ID	*779.21	

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

Full clerk report

The printout occurs in the same format as in the sample report of individual clerk, but all clerk's sales data are printed in the order of clerk code number (from #1 to #15).

■ PLU sales report

• Sample report

X1		Mode title*
* PLU *		Report title
	0001-0015	Range
PLU code	P0001	19 Q
Item label	PLU.0001	*29.83
	P0002	21 Q
	PLU.0002	*31.50
	P0010	4 Q
	PLU.0010	*28.60
	P0011	11 Q
	PLU.0011	*99.30
	P0012	8 Q
	PLU.0012	*18.88
	P0013	-7 Q
	PLU.0013	-14.70
	P0015	1 Q
	PLU.0015	*5.75

	***TOTAL	57 Q
		*199.16

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

■ Hourly report

• Sample report

X1		Mode title*
HOURLY		Report title
10:00	12 Q	Customer counter
	*119.98	Sales total
11:00	18 Q	
	*186.89	
12:00	25 Q	
	*199.91	
13:00	7 Q	

17:00	18 Q	
	*126.69	
18:00	16 Q	
	*92.26	

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

3 Periodic Consolidation

■ Full sales report

• Sample report


Z2		Mode title*1
	Z1 0001	Reset counter of daily total
	Z2 0001	Reset counter of periodic
GT1	*00000002104.45	} Grand total
GT2	*00000002219.23	
GT3	-00000000114.78	
TR	*00000000089.85	

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 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/Z2 and Z2/Z2 modes. By default, a maximum of 2000 lines are stored in the memory. For details of EJ programming, please refer to “Electronic Journal (EJ) Programming” section (page 40).

■ 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  key during the transaction.

Note This function is valid when the printing style is set to receipt type on the programming, and also the receipt ON/OFF function is set to OFF.

• Sample print

* EJ *	EJ report title
26/08/2002 18:24 01	
123456#0321 DAVID	
DEPT.07 *10.00	
DEPT.08 *25.00	
* EJ END *	EJ report end title

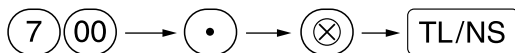
■ Reading and resetting the electronic journal data (Issuing EJ report)

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.

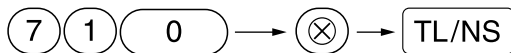
To read all of the data:



To reset all of the data:



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 2000 (or 1000, 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.

• Sample EJ report

```
*OPX*
* EJ *
26/08/2002 15:41 01
123456#0336 DAVID
DEPT.12 *12.50
ITEMS 1Q
CASH *12.50
26/08/2002 15:41 01
123456#0337 DAVID
DEPT.07 *2.45
DEPT.08 *7.85
```

```
123456#0345 DAVID *25.00
***RA
26/08/2002 18:36 01
123456#0346 DAVID
*X1*
* DEPT *
*TRANS. *
26/08/2002 18:36 01
123456#0347 DAVID
DEPT.10 *12.56
DEPT.15 *12.69
ITEMS 2Q
CASH *25.25
26/08/2002 18:37 01
123456#0348 DAVID
DEPT.04 *1.25
3x 1.50
DEPT.13 *4.50
ITEMS 4Q
CASH *5.75
* EJ END *
```

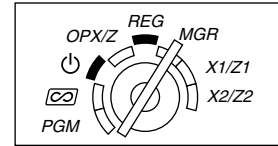
} Header information print

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.



Example

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

Key operation example

REG-mode 1500 ¹⁹
 entries 250 ...Error

Turn the mode switch to the MGR position.

250

Return the mode switch to the REG position.

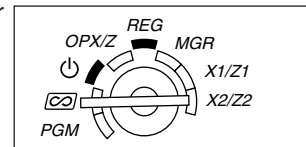
Print

DEPT.03	*15.00
(-)	-2.50
ITEMS	1Q
CASH	*12.50

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	2Q
CASH	*11.50



Cancellation receipt

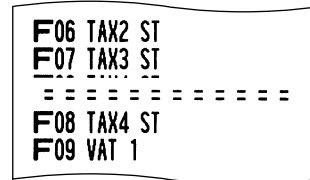
* 0 MODE	*
DEPT.04	*10.00
DEPT.03	*1.50
ITEMS	2Q
CASH	*11.50

OPERATOR MAINTENANCE

1 In case of Power Failure

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

- When power failure is encountered in register idle state or during an entry, the machine 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.)



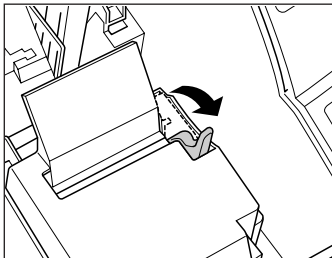
2 In Case of Printer Error

If the printer runs out of paper, the printer will stall, and “PPPPPPPPPP” will appear on the display. Key entries will not be accepted. Refer to section 5 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 head comes up, the printer stalls, “H” will appear on the extreme left of the display. Key entries will not be accepted. Bring the print head back to the correct position, 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.)
- Use the print head release lever only when necessary.
- Never pull the paper when it is in contact with the print head. First release the head with the print head release lever, and then remove the paper.
- Never touch the surface of the print head.
- Never touch around the print head and the motor during printing or before they have had sufficient time to cool.

■ Cautions in handling the recording paper (thermal paper)

- Use only 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 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

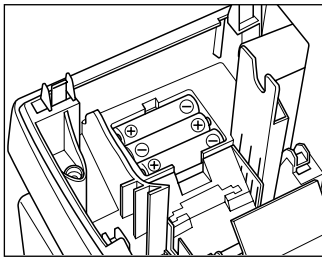
This cash register displays a low battery symbol (L) when the batteries are low, and displays a no battery symbol (L) when batteries are extremely low or batteries are not installed.

When the low battery symbol 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 symbol 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 with the power cord connected.
3. Remove the printer cover.
4. Open the battery compartment cover 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 " L " or " L " symbol 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

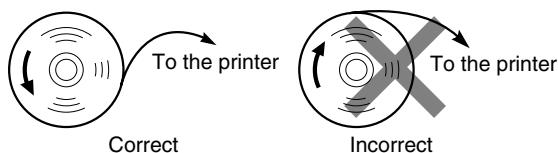
Paper width: 57.5 ± 0.5 mm Max. outside diameter: 80 mm Quality: Thermal paper

- Be sure to set paper roll(s) prior to using your machine, otherwise it may cause a malfunction.

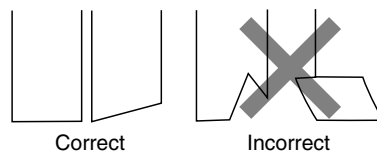
Install the paper roll in the printer. Be careful to set the roll and cut the paper end correctly.

If the top end of the paper roll is fixed with paste or tape, the paper may lose its color development ability in the pasted or taped area due to the deterioration of the heat-sensitive color development component of the paper surface. This may result in nothing appearing at this location when printing. Therefore, when setting a new paper roll in the machine, be sure to cut off approximately one revolution (approx. 25 cm long).

(How to set the paper roll)



(How to cut the paper end)

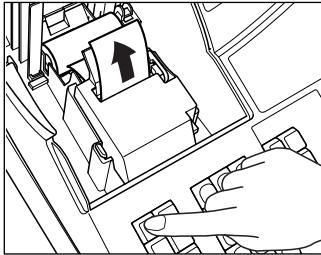



■ Removing the paper roll

When a red dye appears on the paper roll, it is time to replace it. Replace the paper roll with 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 cover. Be careful not to cut yourself.

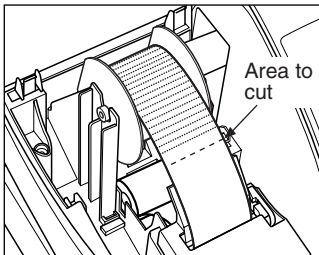
When the take-up spool is not used:





1. Turn the mode switch to the REG position with the power cord connected.
2. Remove the printer cover.
3. Cut the paper behind the printer and near the paper roll.
4. Press the  key until the paper remaining in the printer comes out completely.
5. Remove the paper roll from the paper roll cradle.

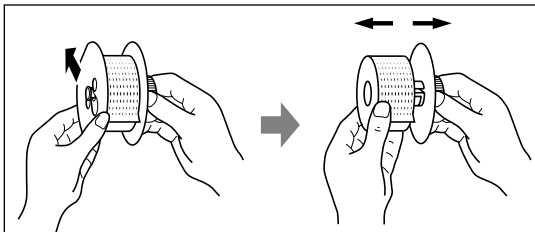
Note Do not pull the paper through the printer.

When the take-up spool is used:



1. Turn the mode switch to the REG position 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. Cut the paper behind the printer and near the paper roll.
6. Press the  key until the paper remaining in the printer comes out completely.
7. Remove the paper roll from the paper roll cradle.

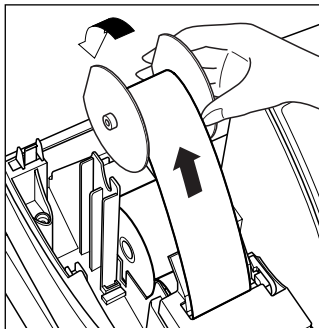
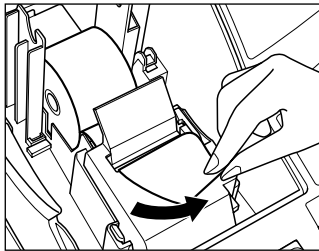
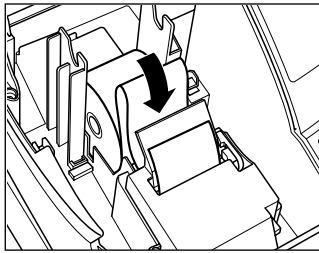
Note Do not pull the paper through the printer.




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

■ Installing the paper roll


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



1. Turn the mode switch to the REG position with the power cord connected.
2. Remove the printer cover.
3. Check that the print head release lever is in the printing position.
4. Set the paper correctly in the paper roll cradle.
5. Insert the end of the paper into the printer until it is caught by the printer auto-feed and comes out of the top of the printer.



If the printer does not catch the paper, feed the paper while pressing the  key.

6. 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 that the paper end comes out of the printer cover.

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, 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  key 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.

Note *You can wind the roll paper in OP X/Z, X1/X2, 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.*

Note *When you want to manually install a new roll of paper while the machine is turned off, follow the steps shown below:*

1. Pull the print head release lever toward you (to the head-up position). (Refer to the diagram on page 62.)
2. Correctly place the new paper roll into the paper roll cradle.
3. Insert the paper end into the printer until it comes out of the printer.
4. Return the print head release lever to its original position.

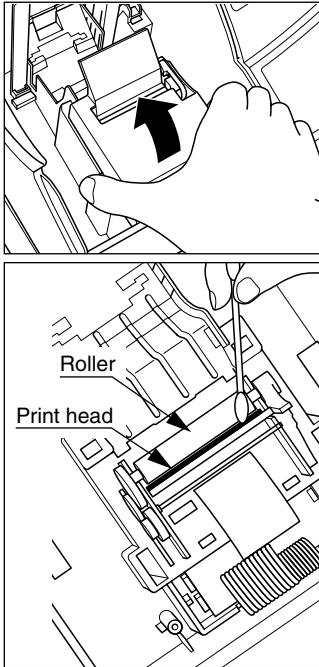
6 Removing a Paper Jam

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

1. Remove the printer cover.
2. Pull the print head release lever toward you (to the head-up position). (Refer to the diagram on page 62.)
3. Remove the paper jam. Check for and remove any shreds of paper that may remain in the printer.
4. Return the print head release lever to its original position.
5. Reset the paper roll correctly by following the steps in "Installing the paper roll".

7 Cleaning the Print Head

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



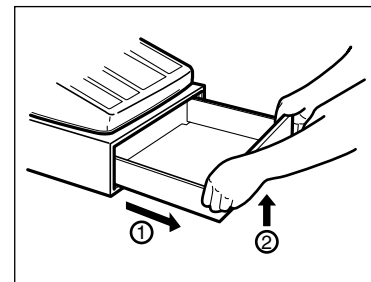
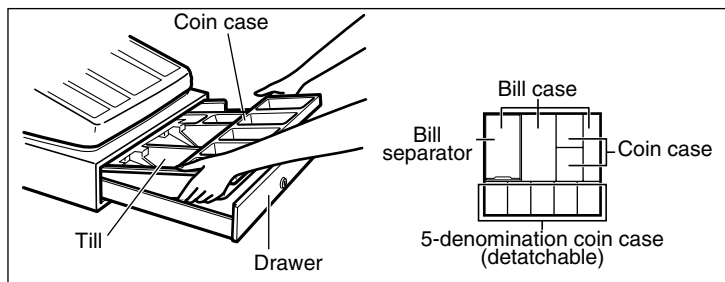
Caution:

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

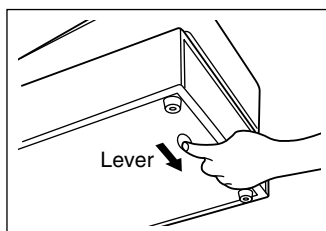
1. Turn the mode switch to the “⏻” position.
2. Remove the printer cover.
3. Remove the inner cover that protects the printer. (Press the lever located both sides and lift the cover up.)
4. Pull the print head release lever toward you (to the head-up position). (Refer to the diagram on page 62.)
5. Clean the print head with a cotton swab or soft rag moistened with ethyl alcohol or isopropyl alcohol.
6. Return the print head release lever to its original position immediately after cleaning.
7. Replace the inner cover. (Insert the side tabs of the cover into their slots and press the cover in the printer until it is properly seated.)
8. 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 5-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.	<ul style="list-style-type: none"> • 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 “  ”.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Is a clerk code assigned to the register? • Is the mode switch set properly at the “REG” position?
(4) No receipt is issued.	<ul style="list-style-type: none"> • Is the paper roll properly installed? • Is there a paper jam? • Is the receipt function in the “OFF” status? • Is the print head release lever at the printing position?
(5) No journal paper is taken up.	<ul style="list-style-type: none"> • Is the take-up spool installed on the bearing properly? • Is there a paper jam? • Is the journal printing selected in the printing style programming? (If the receipt printing is selected, the paper is not wound around the take-up spool.)
(6) Printing is unusual.	<ul style="list-style-type: none"> • Is the print head release lever at the printing position? • Is the paper roll properly installed?

■ Error code table

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

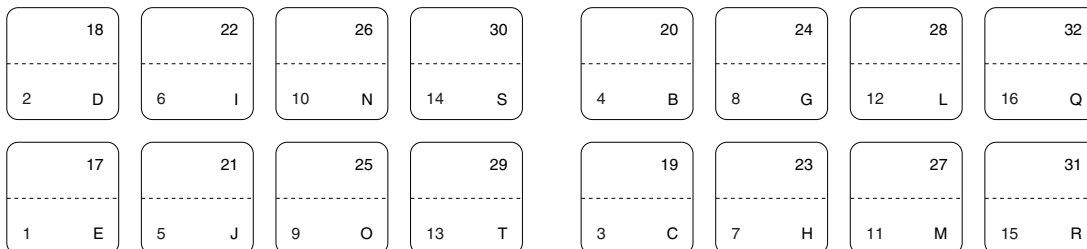
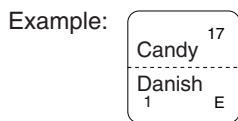
Error code	Error status	Action
E01	Registration error	Make a correct key entry.
E02	Misoperation error	Make a correct key entry.
E03	Undefined code is entered.	Enter a correct code
E07	Memory is full (in the  key programming).	Program the  key within 25 steps.
E11	Compulsory depression of the  key for direct finalization	Press the  key and continue the operation.
E12	Compulsory tendering	Make a tendering operation.
E32	No entry of a clerk code	Make a clerk code entry.
E34	Overflow limitation error	Make a registration within a limit of entry.
E35	The open price entry is inhibited.	Make a preset price entry.
E36	The preset price entry is inhibited.	Make an open price entry.
E37	The direct finalization is inhibited.	Make a tendering operation.
E67	Subtotal void is not allowed.	Finalize the transaction, and correct the wrong entries in the  mode.

SPECIFICATIONS

Model:	XE-A201	
Dimensions:	338 (W) x 425 (D) x 290 (H) mm	
Weight:	9.0 kg	
Power source:	Official (nominal) voltage and frequency	
Power consumption:	Stand-by 7W Operating 34.5W (max.)	
Working temperature:	0 °C to 40 °C	
Electronics:	LSI (CPU) etc.	
Display:		
Operator display:	7-segment display (10 positions)	
Customer display:	7-segment display (7 positions)	
Printer:		
Type:	One-station thermal printer	
Printing speed:	Approx. 10 lines/second	
Printing capacity:	24 digits each for receipt and journal paper	
Other functions:	<ul style="list-style-type: none"> • Logo message function • Receipt (ON-OFF) function 	
Paper roll:	Width: 57.5 ± 0.5 mm Max. diam.: 80 mm Quality: High quality (0.06 to 0.08 mm thickness)	
Cash drawer:	3 slots for bill and 7 for coin denominations	
Accessories:		
	Manager key	2
	Operator key	2
	Drawer lock key	2
	Paper roll	1
	Take-up spool	1
	Bill separator	1 (Set in the drawer.)
	Quick Start Guide	1 copy
	Instruction manual	1 copy

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

Use these labels with the department keys. Write department names on the labels and attach them to the department keys by first removing the transparent key covers. (Please make a copy of this page.)



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 recommandons 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 recyclage.
- Ne jamais jeter la pile usagée dans une source de chaleur, dans l'eau ou dans les vide-ordures.

Miljöskydd

Denna produkt nöddrivs av batteri.

Vid batteribyte skall följande iakttas:

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

Geräuschpegel: 70,7 dB (A)

Gemessen nach DIN 45635 bzw. EN27779



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