SHARP

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

MODEL
MODELL
MODELE
MODELO
MODEL **XE-A213**

INSTRUCTION MANUAL
BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS

MANUAL DE INSTRUCCIONES
GEBRUIKSAANWIJZING

With Quick Start Guide
Mit Schnellstartanleitung
Avec Guide de démarrage rapide
Con Guía de inicio rápido
Met Gids voor snel starten

CAUTION:

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

CAUTION:

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

VORSICHT:

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

ATTENTION:

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

AVISO:

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

VARNING:

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

LET OP:

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

CAUTION:

For a complete electrical disconnection pull out the mains plug.

VORSICHT:

Zur vollständigen elektrischen Trennung vom Netz den Netzstecker ziehen.

ATTENTION:

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

AVISO:

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

VARNING:

För att helt koppla från strömmen, dra ut stickproppen.

LET OP:

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

Warning

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

Warnung

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

Avertissement

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

Advertencia

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

Contact the following for the CE mark.

SHARP ELECTRONICS (Europe) GmbH
Sonninstraße 3, D-20097 Hamburg

INTRODUCTION

Thank you very much for your purchase of the SHARP Electronic Cash Register, Model XE-A213.
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 alkaline batteries LR6 ("AA" size) on the register. Otherwise, distorted memory contents and malfunction of the cash register will occur. For this procedure, please refer to pages 9 to 10.

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 alkaline batteries LR6 ("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.
  • **RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.**
    DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
  • **Be sure that the positive (+) and negative (–) poles of each battery are facing in the proper direction for installation.**
  • **Never mix batteries of different types.**
  • **Never mix old batteries and new ones.**
  • **Never leave dead batteries in the battery compartment.**
  • **Remove the batteries if you do not plan to use the 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.**

CONTENTS

Part1 QUICK START GUIDE

Part2 FOR THE OPERATOR

Part3 FOR THE MANAGER

Part1 QUICK START GUIDE

STEP 1 ▶ PARTS AND THEIR FUNCTIONS

1 | External View

■ Front view

Operator display

Printer cover

Receipt paper

Drawer lock

Drawer

XE-A213

AC power cord

Mode switch

Keyboard
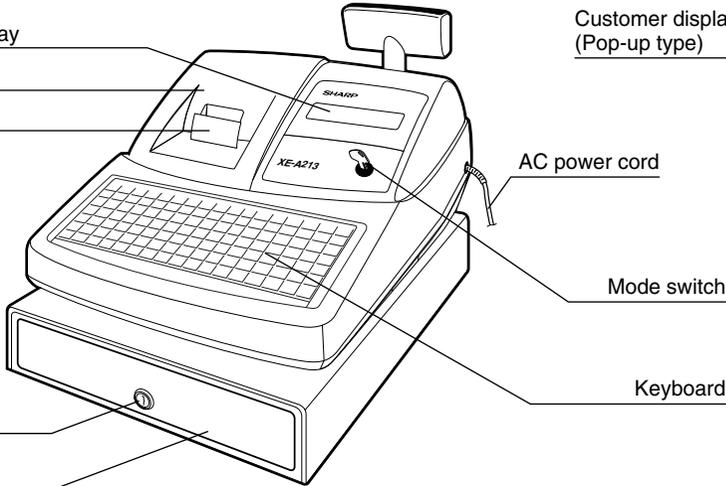
■ Rear view

Customer display
(Pop-up type)
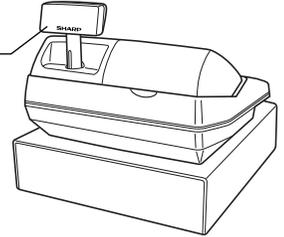
2 | Printer
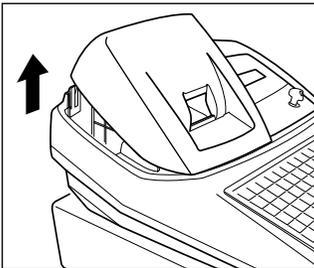
The printer is one station type thermal printer, therefore it does not require any type of ink ribbon or cartridge.

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

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

Take-up spool

Print roller arm

Print roller
release lever

Inner cover

Paper roll cradle

Paper positioning guides
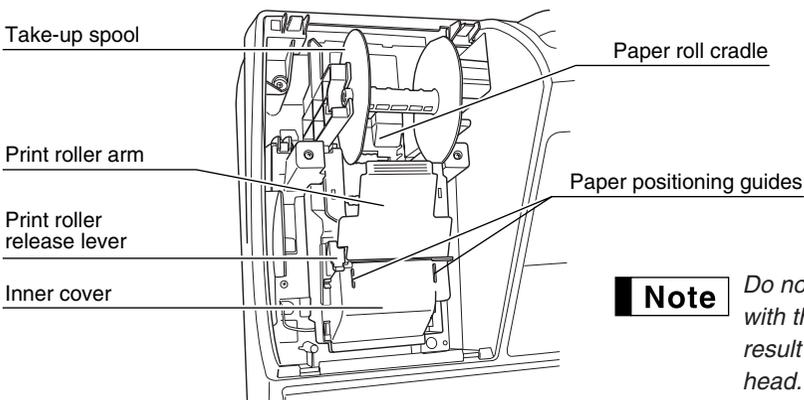
| Note | *Do not attempt to remove the paper roll with the print roller arm locked. This may result in damage to the printer and print head.*

5

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.
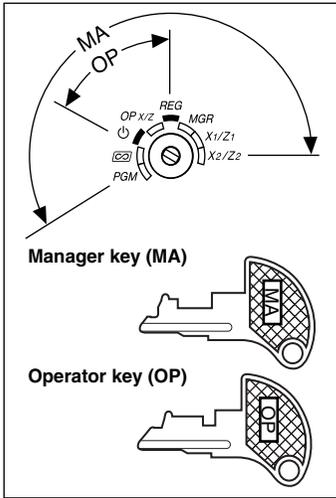
The mode switch has these settings:

⏻ : 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 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.

Manager key (MA)

Operator key (OP)

4 Keyboard

■ Keyboard layout

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

■ Key names

↑	Paper feed key	⊖	Discount key	•	Decimal point key
ESC	Escape key	%	Percent keys	CL	Clear key
RCPT	Receipt print key	PO	Paid-out key	00 0 ~ 9	Numeric keys
VAT	Value added tax key	RA	Received-on account key	EX	Foreign currency exchange key
CLK #	Clerk code entry key	∞	Void key	GC RCPT	Guest check receipt key
VAT SHIFT	Value added tax shift key	RF	Refund key	AUTO	Automatic sequence key
#	Non-add code/Time display key	1 ~ 6	Department keys	DEPT #	Department code entry key
PLU /SUB	PLU/Subdepartment key	⊗	Multiplication key	L1 ~ L3	PLU level shift keys

GLU	Guest look up key	CH1 CH2	Cheque 1 and 2 keys	TL/NS	Total/No sale key
NBAL	New balance key	ST	Subtotal key	1 ~ 70	Direct PLU keys
CR1 CR2	Credit 1 and 2 keys				

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

■ **Keyboard sheet**

Two types of keyboard sheets are installed on the cash register; one for ordinal use and one for text programming.
To reinstall the keyboard sheet or a new sheet, please follow the procedure below.

Keyboard cover

Keyboard sheet

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

③ Close the keyboard cover.
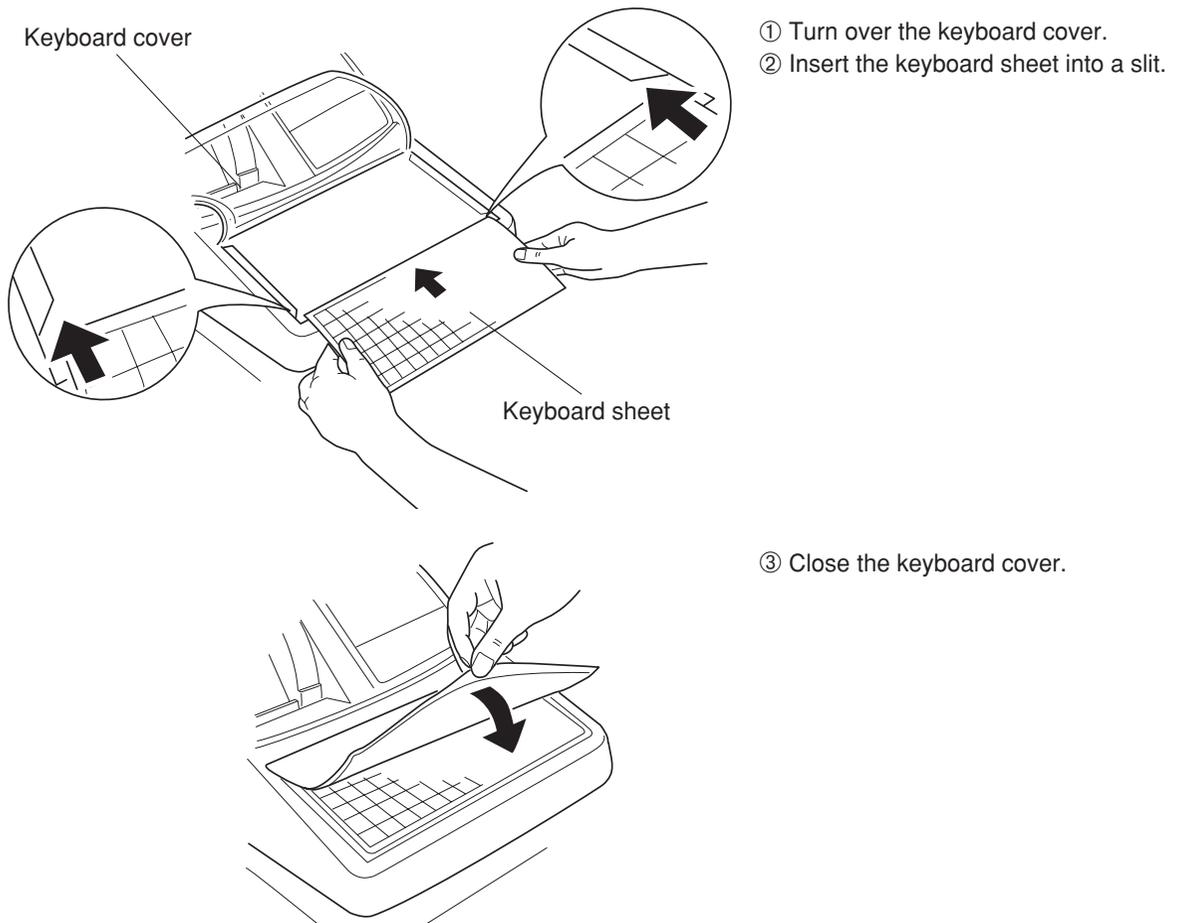
Note
• *Do not spread the keyboard cover too far as it might tear the tabs.*
• *Replace the keyboard sheet with a new one if chance it gets wet. Use of a wet keyboard sheet may cause problems.*
• *Be sure to use only SHARP-supplied keyboard sheets. Thick or hard sheets can make key operations difficult.*
• *Place the keyboard sheet evenly under the keyboard cover.*
• *The keyboard cover will eventually wear out. If your keyboard cover is dirty or broken, replace the cover with a new one. For details, please contact a nearby authorized SHARP dealer.*

7

■ **Operator display**

```
DEPT.03      10.00
```

Numeric entry display area

Repeat number display area

Power save mark display area

Function message display area
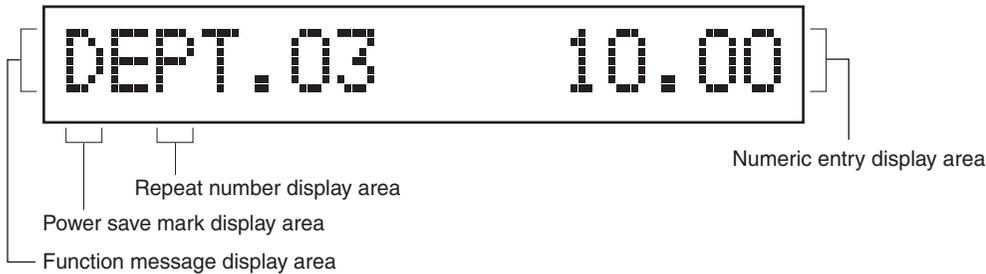
• **Repeat number display area**

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...)

• **Power save mark display area**

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

• **Function message display area**

Item labels of departments and PLU/subdepartments and function texts you use, such as %, (–) and CASH are displayed. For the details of function texts, please refer to page 63.

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

• **Numeric entry display area**

Numbers entered using numeric keys are displayed here.

Date and time display

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

Error message

When an error occurs, the corresponding error message is displayed in the function message display area. For details of error messages, please refer to "Error message table" on page 94.

■ **Customer display (Pop-up type)**

```
4567890
```

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.
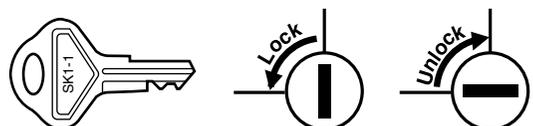
STEP2 PREPARING THE CASH REGISTER

Unpack the cash register and make sure all accessories are included. For details of accessories, please refer to "SPECIFICATIONS" section on page 95.

For installing the cash register, find a stable surface near an AC outlet where the cash register will not subject to water sources or direct sunlight.

For preparing the cash register, please follow the three steps shown below; "1 Initializing the Cash Register" on page 9, "2 Installing Batteries" on page 10, and "3 Installing a Paper Roll" on page 11.

1 Initializing the Cash Register

In order to operate the cash register 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.
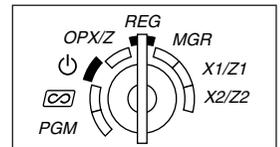
3. The cash register has now been initialized. The register display will show "0.00" and then "NO BATTERY".

NO BATTERY

| 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.*

Three new alkaline batteries LR6 ("AA"size) must be installed in the cash register to prevent the data and user-programmed settings from being erased from the memory, when the AC cord is accidentally disconnected or in case of power failure. Once installed, the batteries will last approximately one year before needing replacement. At this time, the warning message "LOW BATTERY" will appear on the display to indicate the batteries are low and must be replaced within two days. If the warning message "NO BATTERY" appears, you must install the batteries at once. Do not set the mode switch to the ⏻ , 🗷 nor PGM positions while "NO BATTERY" is being displayed.

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

1. Push the printer cover forward and detach it.
   Be careful with the paper cutter, so as not to cut yourself.

2. Open the battery compartment cover next to the paper roll cradle.
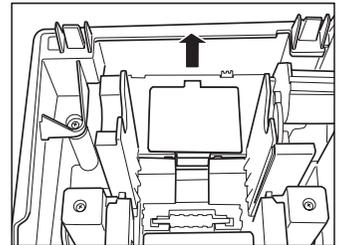
3. Install three new alkaline batteries LR6 ("AA"size) as per the diagram. When the batteries are properly installed "NO BATTERY" message on the display will disappear.
4. Close the battery compartment cover.
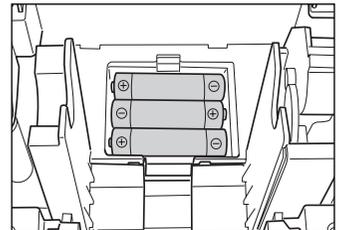
| Note | • Be sure to observe precautions shown on page 1 when handling batteries.
• If you press a key by mistake, an error message "PAPER EMPTY" may be displayed. Press the CL key to clear message after installing paper rolls. |

| Caution | "LOW BATTERY" or "NO BATTERY" can be displayed only when the cash register is being turned on. Please be advised that when the cash register is being turned off for a long time, the data in memory might be cleared without the warning messages: "LOW BATTERY" or "NO BATTERY". |

3 Installing a Paper Roll

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

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

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

Print roller arm

Print roller release lever
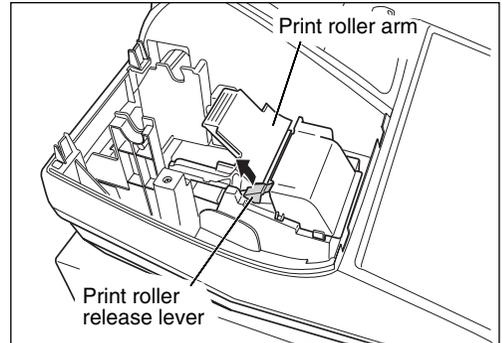
2. Set a paper roll in the paper roll cradle as per the diagram.

To the printer   To the printer

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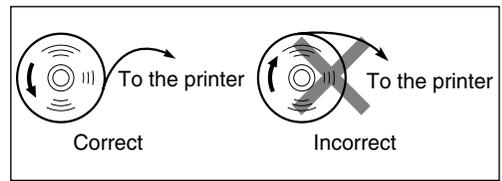
3. Feed the end of the paper along with the paper positioning guides as per the diagram.

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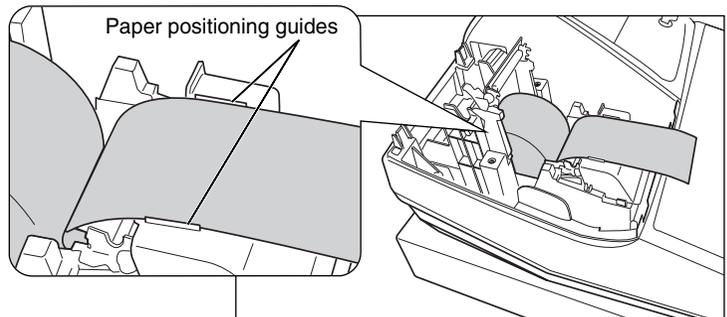
4. While holding down the paper, slowly close the print roller arm, and push down the arm until you hear a click locking the arm. Make sure securely you push down the center of the wing part of the arm as per the diagram. The paper will be fed automatically.

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

11
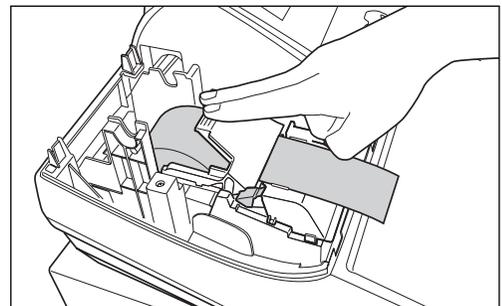
5. When not using the take-up spool (using as receipt paper):
   • Cut off the excess paper using the edge of the inner cover, and replace the printer cover. Press the ⎡↑⎤ key to make sure the paper end comes out of the printer cover and clean paper appears.

   | **Note** | *If the paper end does not come out, open the printer cover, and pass the paper end between the paper cutter and the paper guide of the printer cover, and replace the cover.* |
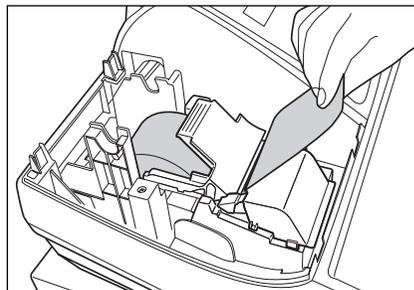
When using the take-up spool (using as journal paper):
   • Insert the end of the paper into the slit in the spool. (Press the ⎡↑⎤ key to feed more paper if required.)
   • Wind the paper two or three turns around the spool shaft.
   • Set the spool on the bearing, and press the ⎡↑⎤ key to take up excess 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 (Job code 6) for changing the printing style.* |
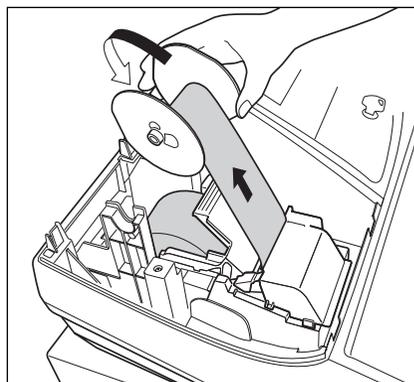
STEP 3 BASIC FUNCTION PROGRAMMING

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 (pages 13-26) where required items must be programmed**, AUXILIARY FUNCTION PROGRAMMING (pages 52-63) where you can program for more convenient use of keys on the keyboard, and ADVANCED FUNCTION PROGRAMMING (pages 64-78) where various optional programming features are provided. Find the appropriate features for your needs, and make the necessary programming.

1 Abbreviations and Terminology

Dept.: Department; a category for merchandise classifications. Every sales item should belong to a department.
PLU: Price Look Up; a category for merchandise classifications. PLUs are used to call up preset prices by a code entry.
VAT: Value Added Tax
X report: Report to read sales data
Z report: Report to read and reset sales data

2 Prior to Programming

■ Procedure for programming

1. Check to see whether a paper roll is present in the machine. If there is not enough paper on a roll, replace it with a new one (refer to "Replacing the Paper Roll" on page 89 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 "22052007" indicates the parameter which must be entered using the corresponding numeric keys.
	• Asterisks in the tables shown in the programming details indicate default settings.

■ Description of special keys

⓪, ① to ⑨	Numerical key	Used for numerical number entry.
00	Double-zero key	Used for parameter entry and character code entry.
CL	Clear key	Used for cancel entry.
·	Point key	Used for decimal point entry and right moving entry (as right cursor key).
⊗	Multiplication key	Used for left moving entry (as left cursor key).
ST	Subtotal key	Used for data decision entry.
TL/NS	Finalization key	Used for programming termination entry.

■ Guidance for text programming

The register allow you to program texts for department item names (page 17), PLU/subdepartment item names (page 22), function texts (page 62), clerk names (page 24), logo messages (page 25), foreign and domestic currency symbols (page 61), and training mode texts (page 62). When you program texts, place the keyboard sheet for text programming over the keyboard sheet for ordinal use. For the placement, please refer to "Keyboard sheet" section on page 7.

There are two ways for programming text; using character keys (shaded area shown below on the keyboard sheet for text programming) or entering character codes with numeric keys on the keyboard. For the latter way, refer to "Entering character codes with numeric keys on the keyboard" on page 50.

Keyboard sheet for text programming

↑	(ESC)	â	à	á	ê	è	é	î	ì	í	ô	ò	ó	Å	Ñ	BACK SPACE
æ Æ	ø	û	ù	ú	¡ !	¿ ?	#	$	%	&	'	^	¢	Ç	¤	= -
Pt	œ	⊗	•	CL	1	2	3	4	5	6	7	8	9	0	[{	] }
§	£	7	8	9	Q	W	E	R	T	Y	U	I	O	P	@	/ ¯
(	)	4	5	6	A	S	D	F	G	H	J	K	L	ß	; +	: *
••	''	1	2	3	Z	X	C	V	B	N	M	Ä	Ö	Ü	, <	. >
(SHIFT)	(DC)	0	00		ST	TL	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(DC)	(SHIFT)

Please note that the character keys used for entering numbers (shaded area) are different from numeric keys.

The following are used as control keys for text programming.

|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. "a" is displayed when lower-case letters entry is selected as shown in the operator display example below.

|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. "W" is displayed when double-size characters entry is selected as shown in the operator display example below.

|BACK SPACE| Backs up the cursor, erasing the character to the left.

Using character keys (Keys on the shaded area)

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

Operator display (Example)

Cursor

┌─ABCD■   Wa
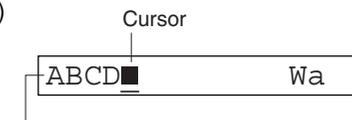
Characters entered using character keys are displayed here.

(**Example**) To program the word "Clerk01" with the letter "C" being double size.

To make the letter "C" double size character	|DC| C	=C■ W
To make character size return to normal size	|DC|	=C■
To toggle the characters to lower-case letters	|SHIFT|	=C■ a
	L E R K 0 1	=Clerk01■ a

3 Language Selection

Procedure

To set 0

$$\boxed{ST} \rightarrow 88 \rightarrow \boxed{\otimes} \rightarrow \boxed{\begin{array}{c}\text{*Language}\\(0\text{-}3)\end{array}} \rightarrow \boxed{TL/NS}$$

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

Key operation example	Operator display	Print
ST 88 ⊗	LANGUAGE CHANGE	***PGM***
0 TL/NS	THANK YOU	#88 O

Caution *When you change the language, the texts such as clerk names (page 24), logo messages (page 25) and function texts (page 62), which you programmed, will be reset to the default settings. The language selection must be made before programming clerk names, logo messages and function texts.*

4 Date and Time Programming

■ Date

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

Procedure

Date(DD/MM/YYYY) ⟶ ⌗

Key operation example	Operator display	Print
22052007 (22 May, 2007)	22052007	***PGM***
⌗	0.00	22/05/2007 —Date

■ 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	Operator display	Print
1430	1430	***PGM***
⌗	0.00	14:30 —Time

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

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

For details of the tax systems, refer to "Computation of VAT (Value Added Tax)/tax" section on page 41. To change the tax system, please refer to "Other programming" of "Various Function Selection Programming 1" section (Job code 69) on page 71.

■ **Tax rate programming**

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

Procedure

To program other kind of tax

$$\boxed{ST} \longrightarrow 9 \longrightarrow \boxed{\otimes} \longrightarrow \boxed{\text{Tax number (1 to 4)}} \longrightarrow \boxed{\otimes}$$

To program 0.0000   When the lowest taxable amount is zero

$$\longrightarrow \boxed{^* \text{ Sign and tax rate}} \longrightarrow \boxed{\otimes} \longrightarrow \boxed{\begin{array}{c}\text{Lowest taxable amount} \\ \text{(0.01 to 999.99)}\end{array}} \longrightarrow \boxed{ST} \longrightarrow \boxed{TL/NS}$$
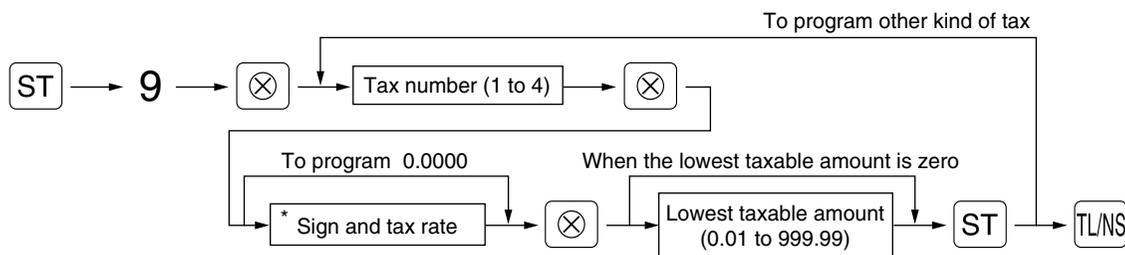
*Sign and tax rate: X YYY.YYYY

Tax rate=0.0000 to 100.0000
Sign -/+ = 1/0

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

Key operation example	Operator display	Print
ST 9 ⊗	TAX RATE PROG.	*PGM*
	ENTER TAX NO.	T2 7.0000% 0.00
2 ⊗	ENTER TAX RATE	
7 ⊗	ENTER LOWER TAX	
ST	ENTER TAX NO.	
TL/NS	0.00	

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 $\boxed{\otimes}$ key in programming a tax rate, cancel it with the $\boxed{CL}$ 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 $\boxed{ST} \longrightarrow 9 \longrightarrow \boxed{\otimes} \longrightarrow \boxed{\text{Tax number (1 to 4)}} \longrightarrow \boxed{\otimes} \longrightarrow \boxed{\infty} \longrightarrow \boxed{TL/NS}$
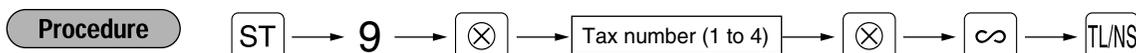
6 Department Programming

Merchandise can be classified into a maximum of 99 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.
Default setting for the VAT/tax statuses and signs are listed below.

Dept. code:	VAT/tax status:	Sign:
Dept. 1-10	VAT 1	(+)
Dept. 11-20	VAT 2	(+)
Dept. 21	VAT 1	(-)
Dept. 22-99	VAT 1	(+)

Procedure

Note	• *To keep current setting on each programming, press the $\boxed{ST}$ key when the corresponding guidance message is firstly displayed.*

• *When pressing the $\boxed{TL/NS}$ key in the middle of procedure, the programming will terminate and the data you entered before the press of $\boxed{TL/NS}$ is saved.*

• *When pressing the $\boxed{CL}$ key twice in the middle of procedure, the programming will terminate and the data you entered before pressing the $\boxed{CL}$ key twice is NOT saved.*

• *When pressing the PLU, $\boxed{\ominus}$, $\boxed{\%}$, $\boxed{EX}$, $\boxed{RA}$, $\boxed{PO}$, $\boxed{CH1}$, $\boxed{CH2}$, $\boxed{CR1}$ or $\boxed{CR2}$ key in the middle of procedure except while entering texts or prices, the programming will move to the pressed key programming.*

1. Specify the department code.

(1) For dept.1 through 6, press the department key.
Or enter dept. code using numeric key, and then
press the DEPT# key.
Immediately after displaying the current text data and
the corresponding dept. key code you entered,
guidance message for the next step will be displayed.

| 6 |

```
DEPT.06        06
```
↓
```
ENTER[00]KEY
```

2. Text programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Press 00 key to enter text programming.
Immediately after displaying guidance message, the
current text data will be displayed.

| 00 |

```
ENTER TEXT
```
↓
```
DEPT.06
```

(2) Enter an item name.
A maximum of 16 characters can be entered.
Please refer to "Guidance for text programming" on
page 14 for entering the item name.
When you start entering a character, the current
text data will be overwritten by new data.
Pressing the · and ⊗ key moves the cursor to
the right and left respectively.

BOOK

```
BOOK
```

(3) Press the ST key to register the item name.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

| ST |

```
PRICE
```
↓
```
          0.00
```

3. Unit price programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Enter a unit price using numeric keys.
A maximum of 6 digits can be set.
Default setting is 0.

300

```
           300
```

(2) Press the ST key to register the unit price.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

| ST |

```
DEPT ENTRY TYPE
```
↓
```
OPEN & PRESET
```

4. Entry type programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Press 00 key 3 times to display "PRESET".
Each time 00 key is pressed, the display shows
"INHIBITED", "OPEN", "PRESET" and "OPEN &
PRESET" in this order.
Default setting is "OPEN".
When the unit price is changed from the default
setting ("0") in step 3, "OPEN & PRESET" will be
displayed first.
However, when the default setting is not changed,
"OPEN" will be displayed first.

| 00 | 00 | 00 |

```
PRESET
```

(2) Press the ST key to register the entry type.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST

```
SELECT OF TAX1
      ↓
TAX1          YES
```

5. VAT/tax 1 status programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Go to (2) when the VAT/tax 1 status does not need
to be changed from "TAX1 YES". Otherwise, press
00 key to display "TAX1 NO".
Each time 00 key is pressed, the display shows
"TAX1 NO" and "TAX1 YES" alternatively.
Choose "YES" for taxable and "NO" for non-taxable.
Default setting is "YES" for dept. code 1 to 10 and
21 to 99, and "NO" for dept. code 11 to 20.
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.

(2) Press the ST key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST

```
SELECT OF TAX2
      ↓
TAX2           NO
```

6. VAT/tax2 status programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Go to (2) when the VAT/tax 2 status does not need
to be changed from "TAX2 NO". Otherwise, press
00 key to display "TAX2 YES".
Each time 00 key is pressed, the display shows
"TAX2 YES" and "TAX2 NO" alternatively.
Default setting is "NO" for dept. code 1 to 10 and 21
to 99, and "YES" for dept. code 11 to 20.

(2) Press the ST key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST

```
SELECT OF TAX3
      ↓
TAX3           NO
```

7. VAT/tax3 status programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Go to (2) when the VAT/tax 3 status does not need
to be changed from "TAX3 NO". Otherwise, press
00 key to display "TAX3 YES".
Each time 00 key is pressed, the display shows
"TAX3 YES" and "TAX3 NO" alternatively.
Default setting is "NO".

(2) Press the ST key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST

```
SELECT OF TAX4
      ↓
TAX4           NO
```

19

8. **VAT/tax4 status programming** (Press [ST] to skip. / Press [TL/NS] to terminate.)

(1) Go to (2) when the VAT/tax 4 status does not need
to be changed from "TAX4 NO". Otherwise, press
[00] key to display "TAX4 YES".
Each time [00] key is pressed, the display shows
"TAX4 YES" and "TAX4 NO" alternatively.
Default setting is "NO".

(2) Press the [ST] key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

[ST]

REGIST.TYPE

↓
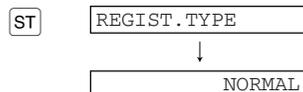
	NORMAL

9. **Registration type programming** (Press [ST] to skip. / Press [TL/NS] to terminate.)

(1) Go to (2) when the registration type does not need
to be changed from "NORMAL". Otherwise, press
[00] key to display "SICS".
Each time [00] key is pressed, the display shows
"SICS" and "NORMAL" alternatively.
Choose "SICS" for single item cash sale and
"NORMAL" for normal sale.
Default setting is "NORMAL".
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.

(2) Press the [ST] key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

[ST]

SIGN

↓

	(+)
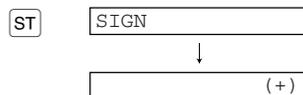
10. **Sign programming** (Press [ST] to skip. / Press [TL/NS] to terminate.)

(1) Go to (2) when the sign does not need to be
changed from "(+)". Otherwise, press [00] key to
display "(-)".
Each time [00] key is pressed, the display shows
"(-)" and "(+)" alternatively.
Choose "(+)" for positive department and "(-)" for
negative department.
Default setting is "(+)" for dept. code 1 to 20 and 22
to 99, and "(-)" for dept. code 21.

(2) Press the [ST] key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

[ST]

LIMIT DIGITS

↓

	8

20
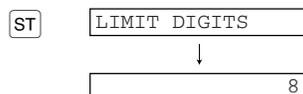
11. **Entry digit limit programming** (Press ST to skip. / Press TL/NS to terminate.)

(1) Enter entry digit limit using numeric key.
The entry digit limit can be set up to 8.
Default setting is 8.

7	7

(2) Press the ST key to register the setting.
Immediately after displaying current text setting and
the corresponding department code for the next
department, guidance message will be displayed.
The dept. code is automatically incremented for a
new department key programming, and ready for
text programming for the incremented dept. code.

ST
```
DEPT.07        07
```
↓
```
ENTER[00]KEY
```

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

12. **Terminate programming**

(1) Press the TL/NS key to terminate department code
programming.

TL/NS	0.00

Print

```
*PGM*
D06      T1         072
BOOK                3.00
```
From left, ABC

Item name   Tax status   Unit price
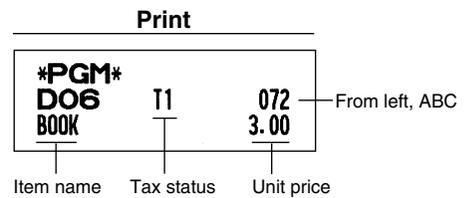
Item:		Selection:	Print:
A	SICS/Normal	Normal*	0
		SICS	1
B	Entry digit limit		0-8(default:8)
C	Type of unit price entry	Open and preset	3
		Preset only	2
		Open only*	1
		Inhibit department key	0

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

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

To extend the number of PLUs/subdepartments, please refer to "EJ memory type" on page 73.

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

Your machine provides 70 direct PLU keys ([_1] through [_70]), and three PLU level shift keys ([L1] [L2] [L3]) to provide three levels for each direct PLU key. For the function details, please refer to "PLU level shift (for direct PLU key)" on page 38. PLU codes 1 though 70 are allocated for level 1, PLU codes 71 thought 140 for level 2 and PLU codes 141 through 210 for level 3. For example, for [_1] key, PLU1 for level 1, PLU 71 for level 2 and PLU 141 for level 3 are assigned.

[L1] → [_1] thru [_70] corresponds to PLU codes 1 through 70 respectively.
[L2] → [_1] thru [_70] corresponds to PLU codes 71 through 140 respectively.
[L3] → [_1] thru [_70] corresponds to PLU codes 141 through 210 respectively.

Procedure

| **Note** | • To keep current setting on each programming, press the [ST] key when the corresponding guidance message is firstly displayed.
• When pressing the [TL/NS] key in the middle of procedure, the programming will terminate and the data you entered before the press of [TL/NS] is saved.
• When pressing the [CL] key twice in the middle of procedure, the programming will terminate and the data you entered before pressing the [CL] key twice is NOT saved.
• When pressing the department, [⊖], [%], [EX], [RA], [PO], [CH1], [CH2], [CR1] or [CR2] key in the middle of procedure except while entering texts or prices, the programming will move to the pressed key programming. |

	Key operation	**Operator display**

1. **Specify the direct PLU key and its level.**

(1) Press a level shift key and a direct PLU key in this order. Immediately after displaying the current text data and the corresponding PLU key code you entered, guidance message for the next step will be displayed.
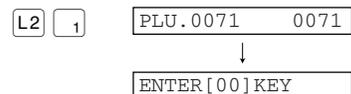
When you press a direct PLU key without pressing a level shift key, level 1 is automatically selected.

[L2] [_1]

| PLU.0071   0071 |
| ↓ |
| ENTER[00]KEY |

2. **Text programming** (Press ST to skip. / Press TL/NS to terminate.)

(1) Press 00 key to enter text programming.
Immediately after displaying guidance message, the
current text data will be displayed.

00	ENTER TEXT
	↓
	PLU.0071

(2) Enter an item name.
A maximum of 16 characters can be entered.
Please refer to "Guidance for text programming" on
page 14 for entering the item name.
When you start entering a character, the current
text data will be overwritten by new data.
Pressing the · and ⊗ key moves the cursor to
the right and left respectively.

MELON	MELON_

(3) Press the ST key to register the item name.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST	PRICE
	↓
	0.00

3. **Unit price programming** (Press ST to skip. / Press TL/NS to terminate.)

(1) Enter a unit price using numeric keys.
A maximum of 6 digits can be set.
For a subdepartment, set the limit amount of unit
price entry.
Default setting is 0.

500	500

(2) Press the ST key to register the unit price.
Guidance message for the next step will be displayed.

ST	ENTER DEPT#

4. **Associated dept. programming** (Press ST to skip. / Press TL/NS to terminate.)

(1) Enter an associated dept. code using numeric key.
For dept. 1 through 6, you may press the
corresponding department key.
Default setting is dept. 1.
For deleting PLU, enter 0 instead of an associated
dept. code.

1	1

(2) Press the ST key to register the associated dept.
code.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

| ST	ENTER PLU TYPE
	↓
	PLU

23

5. Function programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Go to (2) when the function does not need to be changed from "PLU". Otherwise, press 00 key to display "SUBDEPT".
Each time 00 key is pressed, the display shows "SUBDEPT" and "PLU" alternatively.
Choose "PLU" for using the PLU code as PLU and "SUBDEPT" for using the PLU code as subdepartment.
Default setting is "PLU".

(2) Press the ST key to register the setting.
Immediately after displaying current text setting and the corresponding PLU code for the next PLU, guidance message will be displayed.
The PLU code is automatically incremented for a new direct PLU key programming, and ready for text programming for the incremented PLU code.
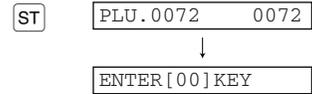
ST	PLU.0072 0072
	↓
	ENTER[00]KEY

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

6. Terminate programming

(1) Press the TL/NS key to terminate direct PLU key programming.

TL/NS	0.00

Print

```
*PGM*
P0071(O1)              1
MELON              5.00
```

PLU code — P0071(O1)
Item name — MELON
PLU/subdept. 1/0
Unit price
Associated dept.

---
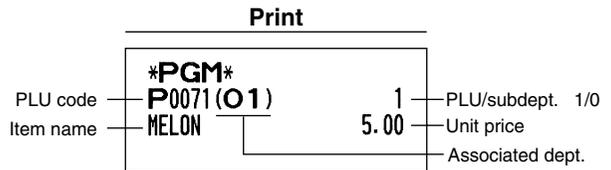
8 Text Programming

Please refer to "Guidance for text programming" on page 14 as for how to entering characters.

When you press an appropriate number key (job code number) and press the · key for text entry just after you start programming with the ST key, the cash register will automatically be ready for text entry.
Then a little after displaying guidance message indicating what programming you are in, the register may ask you to enter the first parameter. Referring to the corresponding "Procedure", enter a parameter and start character entries.

■ Clerk names (12 digits)

Procedure

To keep current setting

ST → 5 → · → Clerk no. (1-25) → ⊗ → Character keys (max. 12 digits) → ST → TL/NS

To program another clerk
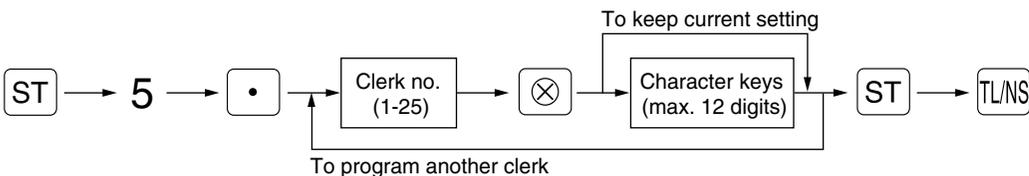
Key operation example	Operator display	Print
[ST] 5 [·]	CLERK NAME PROG.	*PGM*
	ENTER CLERK NO.	C#01　　DAVID
1 [⊗]	_	
DAVID	DAVID_	
[ST]	CLERK NAME PROG.	
	ENTER CLERK NO.	
[TL/NS]	0.00	

■ **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. For the programming details, refer to page 73. The options are listed below:

Procedure

To keep the current setting

$$\boxed{ST} \rightarrow 4 \rightarrow \boxed{\cdot} \rightarrow \boxed{\text{*Line number (1-6)}} \rightarrow \boxed{\otimes} \rightarrow \boxed{\text{Character keys (max. 24 digits)}} \rightarrow \boxed{ST} \rightarrow \boxed{TL/NS}$$

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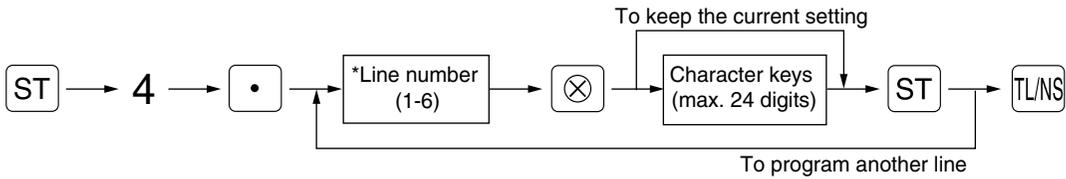
* "Header 3-line message" type: 1 to 3
  "Header 6-line message" type: 1 to 6
  "Header 3-line and footer 3-line message" type: 1 to 6 (1 to 3 as header, 4 to 6 as footer)

Logo message print format (3 types)

| Header 1st line |
| Header 2nd line |
| Header 3rd line |

Header 3-line message

| Header 1st line |
| Header 2nd line |
| Header 3rd line |
| Header 4th line |
| Header 5th line |
| Header 6th line |

Header 6-line message

| Header 1st line |
| Header 2nd line |
| Header 3rd line |

| Footer 4th line |
| Footer 5th line |
| Footer 6th line |
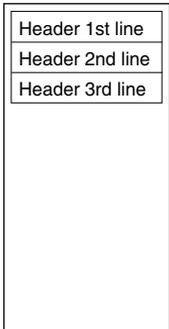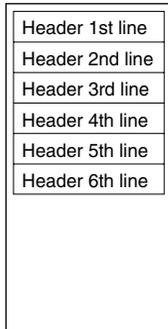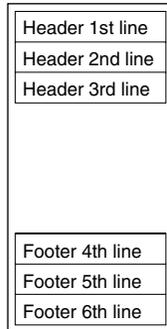
Header 3-line message and footer 3-line messages (Default setting)

25

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

Key operation example	Operator display	Print
[ST] 4 [·]	LOGO TEXT PROG.	*PGM*
	ENTER LINE NO.	THANK YOU
3 [⊗]	_	
[SPACE] [SPACE] [SPACE]	_	
[DC]	W	
THANK [SPACE] YOU	N=K= =Y=O=U_ W	
[DC]	N=K= =Y=O=U_	
[SPACE] [SPACE] [SPACE]	= =Y=O=U _	
[ST]	LOGO TEXT PROG.	
	ENTER LINE NO.	
[TL/NS]	0.00	

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

9 Programming Other Necessary Items

Decimal point position (tab) setting for domestic currency
By default, "2" is selected. When your country has a different tab setting, you must change the setting. Please refer to "Other programming" of "Various Function Selection Programming 1" (Job code 61) on page 67.

Rounding system
When your country has a special rounding system, such as Australia, Switzerland, Norway, Sweden, Denmark and South Africa, you must change the setting to suit your country. For the setting for Australia, Switzerland, Norway and South Africa, please refer to "Other programming" of "Various Function Selection Programming 1" (Job code 67) on page 69. For the setting for Sweden and Denmark, please refer to "Other programming" of "Various Function Selection Programming 1" (Job code 69) on page 71.

STEP 4 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 "Additional Information for BASIC SALES ENTRY" on page 34.

Mode switch setting

1. Turn the mode switch to the REG position.

Clerk assignment

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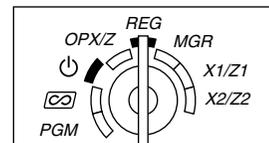
Item entries

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

For department 7 and above, enter the department code using numeric keys and press the ⌈DEPT#⌉ key, then enter the price and press the ⌈DEPT#⌉ key again.

4. Repeat step 3 for all department items.

Displaying subtotals

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

Finalizing the transaction

6. Enter the amount received from the customer. (You can omit this step if the amount tendered is the same as the subtotal.)

7. Press the ⌈TL/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	Operator display		Receipt print

Clerk assignment → 1 ⌈CLK#⌉ → `DAVID     -01-`

Item entries
- 1500 ⌈1⌉* → `DEPT.01    15.00`
- 2300 ⌈2⌉* → `DEPT.02    23.00`

Displaying subtotal → ⌈ST⌉ → `SUBTOTAL  38.00`

Amount tendered → 4000 → `          4000`

Finalizing the transaction → ⌈TL/NS⌉ → `CHANGE     2.00`

* ⌈1⌉ ⌈2⌉ :indicate department keys.
(In this example, tax system is set to automatic VAT 1 and the tax rate is set to 16.00%.)

Receipt print:

```
        SHARP
    PRESENTS THE
      BEST ECR

22/05/2007 000000#000009
14:33    01 DAVID

DEPT.01        *15.00
DEPT.02        *23.00
SUBTOTAL       *38.00
TAX1 ST        *38.00
VAT 1 '         *5.24
NET 1          *32.76

ITEMS        2Q
***TOTAL   *38.00
CASH           *40.00
CHANGE          *2.00

        SHARP
         IS
      THE BEST
```

- Logo message (Header)
- Date/Register number/ Consecutive number
- Time/Clerk code/Clerk name
- Items
- Price
- Not printed when non-taxable items only are sold.
- Total quantity
- Total amount
- Cash tendering/amount received
- Change
- Logo message (Footer)

27

The cash register allows you two ways of entering PLUs; direct PLU entry and PLU code entry. For more information about PLU entries, refer to "PLU/subdepartment entries" on page 35.

■ **Direct PLU entry**

For the direct PLU code entry, press the direct PLU keys. For the location of the keys, refer to "Direct PLU keys" below. For the PLU level shift, refer to "PLU level shift (for direct PLU key)" on page 38.

Key operation example	Operator display	Receipt print
Item entries		
[1]	PLU.0001 1.50	PLU.0001 *1.50
[L2] [1]	PLU.0071 15.00	PLU.0071 *15.00
[L3] [1]	PLU.0141 36.20	PLU.0141 *36.20
[TL/NS]	CASH 52.70	ITEMS 3Q
		CASH *52. 70

Direct PLU keys

						L3	7	14	21	28	35	42	49	56	63	70
						L2	6	13	20	27	34	41	48	55	62	69
						L1	5	12	19	26	33	40	47	54	61	68
							4	11	18	25	32	39	46	53	60	67
							3	10	17	24	31	38	45	52	59	66
							2	9	16	23	30	37	44	51	58	65
							1	8	15	22	29	36	43	50	57	64

■ **PLU code entry**

For the PLU code entry , enter a PLU code using numeric keys and press the [PLU/SUB] key.

Key operation example	Operator display	Receipt print
Item entries		
1 [PLU/SUB]	PLU.0001 1.50	PLU.0001 *1.50
71 [PLU/SUB]	PLU.0071 15.00	PLU.0071 *15.00
141 [PLU/SUB]	PLU.0141 36.20	PLU.0141 *36.20
[TL/NS]	CASH 52.70	ITEMS 3Q
		CASH *52. 70

STEP 5 CORRECTION

1 Cancellation of the Numeric Entry

If you make an incorrect numeric entry, you can clear the entry by pressing the [CL] key only before pressing a department key, PLU/subdepartment key, the [DEPT#] key, the [%] key, the [⊖] key or the [RF] key.

2 Correction of the Last Entry (direct void)

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

Key operation example	Operator display	Receipt print
1250 [6]	`DEPT.06     12.50`	`DEPT.06      *12.50`
[∞]	`DEPT.06    -12.50`	`DEPT.06     ᴡ-12.50`
[2]	`PLU.0002     1.50`	`PLU.0002      *1.50`
[∞]	`PLU.0002    -1.50`	`PLU.0002     ᴡ-1.50`
8 [DEPT#]	`AMOUNT     ------`	`DEPT.08       *6.00`
600 [DEPT#]	`DEPT.08      6.00`	`            -15.00%`
[%]	`%1          -0.90`	`%1            -0.90`
[∞]	`%1           0.90`	`%1           ᴡ*0.90`
328 [1]	`PLU.0001     3.28`	`PLU.0001      *3.28`
28 [⊖]	`(-)         -0.28`	` (—)          -0.28`
[∞]	`(-)          0.28`	` (—)         ᴡ*0.28`
250 [RF] [6]	`DEPT.06     -2.50`	`DEPT.06       R-2.50`
[∞]	`DEPT.06      2.50`	`DEPT.06      Rᴡ*2.50`
[TL/NS]	`CASH         9.28`	`ITEMS      2Q`
		`CASH     *9.28`

29

3 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, direct PLU key or [PLU/SUB] key. For the refund indirect void, press the [∞] key after you press the [RF] key.

Key operation example	Operator display	Receipt print
1310 [6]	DEPT.06 13.10	DEPT.06 *13.10
7 [DEPT#]	AMOUNT - - - - - -	DEPT.07 *17.55
1755 [DEPT#]	DEPT.07 17.55	PLU.0010 *7.15
[10]	PLU.0010 7.15	PLU.0009 *3.50
350 [9]	PLU.0009 3.50	PLU.0012 *3.60
[12]	PLU.0012 3.60	DEPT.06 R-2.50
250 [RF] [6]	DEPT.06 -2.50	DEPT.03 *8.25
825 [3]	DEPT.03 8.25	DEPT.06 ɯ-13.10
1310 [∞] [6]	DEPT.06 -13.10	DEPT.07 ɯ-17.55
7 [∞] [DEPT#]	AMOUNT - - - - - -	PLU.0009 ɯ-3.50
1755 [DEPT#]	DEPT.07 -17.55	PLU.0012 ɯ-3.60
350 [∞] [9]	PLU.0009 -3.50	DEPT.06 Rɯ*2.50
[∞] [12]	PLU.0012 -3.60	
250 [RF] [∞] [6]	DEPT.06 2.50	ITEMS 20
[TL/NS]	CASH 15.40	CASH *15. 40

Correction of a department entry
Correction of a subdept. entry
Correction of a PLU entry
Correction of a refund entry

4 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	Operator display	Receipt print
1310 [2]	DEPT.02 13.10	DEPT.02 *13.10
[2]	2 13.10	DEPT.02 *13.10
1755 [6]	DEPT.06 17.55	DEPT.06 *17.55
[10]	PLU.0010 7.15	PLU.0010 *7.15
[35]	PLU.0035 10.00	PLU.0035 *10.00
[ST]	SUBTOTAL 60.90	SUBTOTAL *60.90
[∞]	0.00	SBTL ɯ -60.90
[ST]	***TOTAL 0.00	***TOTAL *0. 00

Subtotal void

5   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.

STEP 6 ▶ FULL SALES REPORT (Z REPORT)

For reading and resetting the sales data, use the resetting function (Z). Resetting prints all sales information and clears the entire memory except for the GT1 through GT3, Training GT, BAL, reset count, and consecutive number.

For more information about resetting (Z) of sales totals, refer to "READING (X) AND RESETTING (Z) OF SALES TOTALS" on page 80.

■ Full sales report

Put the manager key in the mode switch and turn it to the X1/Z1 position.

Key operation	Operator display
[•] [TL/NS]	0.00
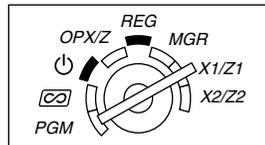
Sample report

*2 ***Z1*** ─ Mode title*1
Z1 0001 ─ Reset counter
GT1 *00000001987.86 ─ Net grand total (GT2-GT3)
GT2 *00000002132.93 ─ Grand total of plus registration
GT3 -00000000145.07 ─ Grand total of minus registration
BAL *00000000032.03 ─ Grand total of balance *3 (order total-paid total)
TR *00000000000.00 ─ Grand total of training mode registration
----
* **DEPT** *
D01 30 Q ─ Dept. code
DEPT.01 *763.28
D02 12 Q ─ Sales q'ty
DEPT.02 *265.90 ─ Sales amount
D03 26 Q
DEPT.03 *615.50
D04 5 Q
DEPT.04 *162.60

D99 3 Q
DEPT.99 *78.15
*DEPT TL 82 Q ─ "+" dept. counter and total
*2075.43

D35 2 Q
DEPT.35 -63.00 ─ "-" dept. counter and total
DEPT (-) 2 Q
-63.00

***TRANS.** *
(—) 3 Q ─ Subtotal ⊖ counter and total
-4.00
%1 2 Q ─ Subtotal percent counter and total
-20.57
NET 1 *1987.86 ─ Net sales total
----

*4
TAX1 ST *1924.36 ─ Taxable 1 total
VAT 1 *265.43 ─ VAT 1 total
TAX2 ST *1022.11
VAT 2 *66.87
TTL TAX *332.30 ─ Tax total
NET *1655.56 ─ Net total without tax
VAT SFT *31.50 ─ VAT shift
TAX DELE *49.00 ─ Tax delete
----
*5
(—) 2 Q ─ Item ⊖ counter and total
-1.50
%1 2 Q ─ Item percent counter and total
-5.00
REFUND 2 Q ─ Refund counter and total
*6.00
ᔕ 3 Q ─ REG-mode void counter and total
*41.00
ᔕ MODE 1 Q ─ Void-mode transaction counter and total
*4.00
MGR ᔕ 2 Q ─ Manager item void counter and total
*4.00
SBTL ᔕ 2 Q ─ Subtotal void counter and total
*168.43

NO SALE 2 Q ─ No-sales counter
***RA 1 Q ─ Received on account counter and total
*48.00
***PO 1 Q ─ Paid out counter and total
*23.00
BILL CNT 1 Q ─ Bill(G.C.RCPT) counter
***PBAL 2 Q ─ PBAL counter
***NBAL 1 Q ─ NBAL counter

(To be continued on the next page)

```
GUEST          33 Q ──────── Customer counter
ORDER TL      *1987.86 ──── Order total
PAID TL       *1955.83 ──── Paid total
AVE.            *59.27 ──── Paid total average per
                             customer
O-P             *32.03 ──── Order total–Paid total
------------------------
CASH           22 Q  ┐
             *1172.13 ┘───── Cash counter and total
CHECK1          3 Q  ┐
              *232.60 ┘───── Cheque1 sales counter
                             and total
CHECK2          1 Q  ┐
              *139.00 ┘
CREDIT1         1 Q  ┐
               *44.00 ┘───── Credit1 sale and tendering
                             counter and total
CREDIT2         1 Q  ┐
               *34.60 ┘
EXCH1           2 Q  ┐
         US $190.00  ┘───── Exchange counter and
                             total (in preset rate entry)
DOM.CUR1      *202.11 ──── Domestic currency
EXCH2           1 Q  ┐
               100.00 ┘───── Exchange manual rate entry
                             counter and total
DOM.CUR2       *78.42
EX1 CHK         1 Q  ┐
          US $62.98  ┘───── Exchange check (in preset
                             rate entry)
DOM.CUR1       *67.00
EX1 CR          1 Q  ┐
          US $31.02  ┘───── Exchange credit (in preset
                             rate entry)
DOM.CUR1       *33.00
------------------------
****CID      *1150.10 ──── Cash in drawer
*CH ID        *371.60 ──── Cheque in drawer
CA/CH ID     *1521.70 ──── Cash + cheque in drawer
CHK/CG         *35.00 ──── Change total for cheque
                             tendering
```

*1: When you take X1 report, "X1" is printed.
*2: Printed in the Z1 report only.
*3: BAL is not printed by default. To print, change the setting on job code 65.
*4: When "Memory of difference due to rounding" is set to "yes" the following is displayed here. For changing the setting, refer to "Other programming" (job code 67).

```
DIFFER           -0.03
```

*5: When manual tax 1-4 system or auto tax 1-4 system is selected, the following is displayed here. For changing the setting, refer to "Other programming" (job code 69).

```
NET2         *1987.86 ── Sales total including tax
```

■ Periodic consolidation

Put the manager key in the mode switch and turn it to the X2/Z2 position.

Key operation	Operator display
· TL/NS	0.00
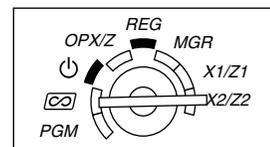
Sample report

```
*Z2* ──────────── Mode title*1
        Z1  0001 ── Reset counter of daily total
        Z2  0001 ── Reset counter of periodic
                     consolidation      *2
GT1  *00000001987.86 ┐
GT2  *00000002132.93 │
GT3  -00000000145.07 ├ Grand total
BAL  *00000000032.03 │
TR   *00000000000.00 ┘
        ↓
```

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

Part2 FOR THE OPERATOR

OTHER BASIC SALES ENTRIES

1 Additional Information for BASIC SALES ENTRY

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)

To display the signed-on clerk code

⌐→ Clerk code → CLK#   CLK# → CLK#
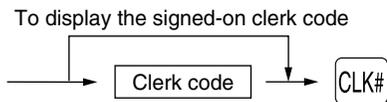
Receipt ON/OFF function

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

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 RCPT 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 RCPT 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 68 (Job code 63).

Power Save Mode

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

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

2 Error Warning

In the following examples, your register will go into an error state accompanied with a warning beep and a corresponding error message. Clear the error state by pressing the CL key and take the proper action.
Please refer to the error message table on page 94.

• Enter over a 32-digit number (entry limit overflow): Cancel the entry and re-enter the correct number.
• An error in key operation: Clear the error and continue operation.
• An entry beyond a programmed amount entry limit: Check to see if the entered amount is correct. If it is correct, it can be rung up in the MGR mode. Contact your manager.
• An including-tax subtotal exceeds eight digits: Delete the subtotal by pressing the CL key and press the TL/NS, CH1, CH2, CR1 or CR2 key to finalize the transaction.

Error escape function

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

To clear the error state

Transaction ⟶ CL

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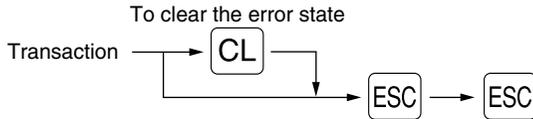
The transaction is voided (treated as a subtotal void) and the receipt is issued by this function. If you have already entered a tendered amount, the operation is finalized as a cash sale.

3 Item Entries

■ Single item entries

1. Department entries

The cash register provides a maximum of 99 departments for a merchandise classification. Group attributes, such as taxable status, are applied to items when they are entered to the departments.

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

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

When using a programmed unit price
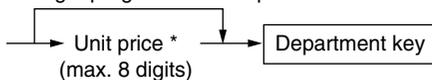
⟶ Unit price * ⟶ Department key
(max. 8 digits)

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

• When using the department code entry key

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

When using a programmed unit price
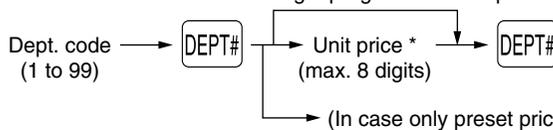
Dept. code ⟶ DEPT# ⟶ Unit price * ⟶ DEPT#
(1 to 99)   (max. 8 digits)

⟶ (In case only preset price entry is allowed.)

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

2. PLU/subdepartment entries

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

By default, the cash register is preprogrammed to be able to use 1 to 210 codes, and these 210 codes are set to PLU mode and zero for unit price.
To extend the number of PLU codes to 1200, please refer to "EJ memory type" on page 73, and for other PLU/subdepartment programming, refer to "PLU (Price Look-Up) and Subdepartment Programming" on page 22.

• PLU entries

| Direct PLU key | ------------- Direct key entry |

PLU code ⟶ | PLU/SUB | ------ PLU code entry
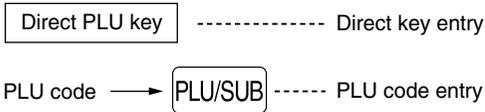
• Subdepartment (open PLU) entries
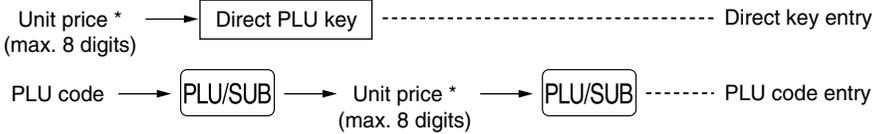
Unit price * ⟶ | Direct PLU key | --------------------------------- Direct key entry
(max. 8 digits)

PLU code ⟶ | PLU/SUB | ⟶ Unit price * ⟶ | PLU/SUB | ------- PLU code entry
                         (max. 8 digits)

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

Key operation example	**Receipt print**

Department entry
```
                          1200 [2]
                               [4]
              50 [DEPT#] 1500 [DEPT#]
                          41 [DEPT#]
```
PLU entry
```
                               [11]
                      80 [PLU/SUB]
```
Subdepartment entry
```
                          500 [15]
              85 [PLU/SUB] 1200 [PLU/SUB]
                               [TL/NS]
```
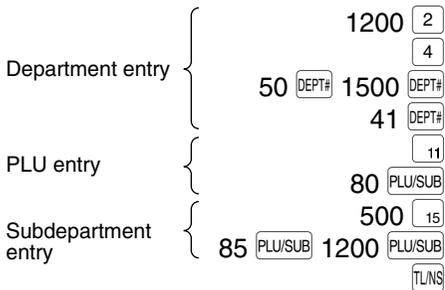
```
DEPT.02          *12.00
DEPT.04           *1.50
DEPT.50          *15.00
DEPT.41           *3.25
PLU.0011          *8.25
PLU.0080          *2.50
PLU.0015          *5.00
PLU.0085         *12.00

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, a direct PLU key or [PLU/SUB] key is as shown on key operation example below.

Key operation example	**Receipt print**

Department entry
```
                       1200 [2] [2]
                            [4] [4]
         50 [DEPT#] 1500 [DEPT#] [DEPT#]
                       41 [DEPT#] [DEPT#]
```
PLU entry
```
                            [11] [11]
                 80 [PLU/SUB] [PLU/SUB]
```
Subdepartment entry
```
                       500 [15] [15]
         85 [PLU/SUB] 1200 [PLU/SUB] [PLU/SUB]
                            [TL/NS]
```
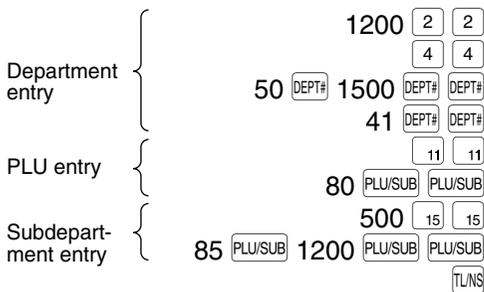
```
DEPT.02          *12.00
DEPT.02          *12.00
DEPT.04           *1.50
DEPT.04           *1.50
DEPT.50          *15.00
DEPT.50          *15.00
DEPT.41           *3.25
DEPT.41           *3.25
PLU.0011          *8.25
PLU.0011          *8.25
PLU.0080          *2.50
PLU.0080          *2.50
PLU.0015          *5.00
PLU.0015          *5.00
PLU.0085         *12.00
PLU.0085         *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 ⊗ 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.* |

Key operation example

```
                              3 ⊗ 1200 [2]
                                 5 ⊗ [4]
Department
entry            3 ⊗ 50 DEPT# 1500 DEPT#
                                 5 ⊗ 41 DEPT#
PLU entry                        3 ⊗ [11]
                            5 ⊗ 80 PLU/SUB
Subdepart-                  3 ⊗ 500 [15]
ment entry     5 ⊗ 85 PLU/SUB 1200 PLU/SUB
                                        TL/NS
```

Receipt print

```
3x 12.00
DEPT.02        *36.00
5x 1.50
DEPT.04         *7.50
3x 15.00
DEPT.50        *45.00
5x 3.25
DEPT.41        *16.25
3x 8.25
PLU.0011       *24.75
5x 2.50
PLU.0080       *12.50
3x 5.00
PLU.0015       *15.00
5x 12.00
PLU.0085       *60.00

ITEMS      32Q
CASH
          *217. 00
```

■ Single item cash sale (SICS) entry

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

Key operation example

```
                     250
For finishing ⟶      [1]
the transaction
```

Receipt print

```
DEPT.01         *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.* |

■ PLU level shift (for direct PLU key)

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

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

You can select one of the two PLU level shift modes — automatic return mode* and lock shift mode** — and decide whether to allow PLU level shift in both the REG and MGR modes or in the MGR mode alone.
*   The automatic return mode automatically shifts the PLU level back to level 1. You can select whether the PLU level should return to level 1 each time you enter one item or each time you finalize one transaction.
** The lock shift mode holds the current PLU level until pressing of a PLU level shift key.

By default, you can operate PLU level shift in both the REG and MGR modes under the automatic return mode (returning to level 1 after an item entry). To change the setting, please refer to "PLU level shift and GLU function parameters" on page 67.

• Automatic return mode

Returning to level 1 after an item entry (default)

```
      ┌─ L2 ─┐
──────┤      ├──→ Numeric entry ──→ Direct PLU key ──→ (Return to level 1)
      └─ L3 ─┘      (Q'ty, ⊗)
```
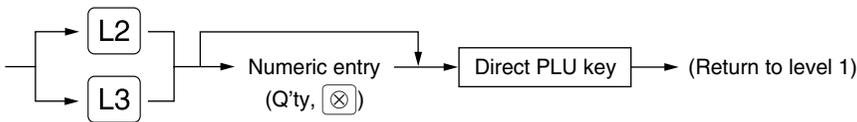
Returning to level 1 after finalizing a transaction

```
      ┌─ L2 ─┐
──────┤      ├──→ Numeric entry ──→ Direct PLU key ──→ Payment ──→ (Return to level 1)
      └─ L3 ─┘      (Q'ty, ⊗)
```

• Lock shift mode

```
                  To shift the level of another PLU
      ┌──────────────────────────────────────────────────┐
      │   ┌─ L1 ─┐                                         │
──────┤───┼─ L2 ─┼──→ Numeric entry ──→ Direct PLU key ──→ (Keep the current level)
      └───┴─ L3 ─┘      (Q'ty, ⊗)
```
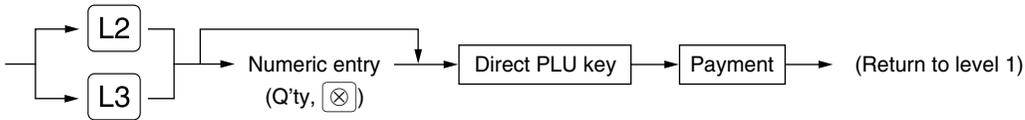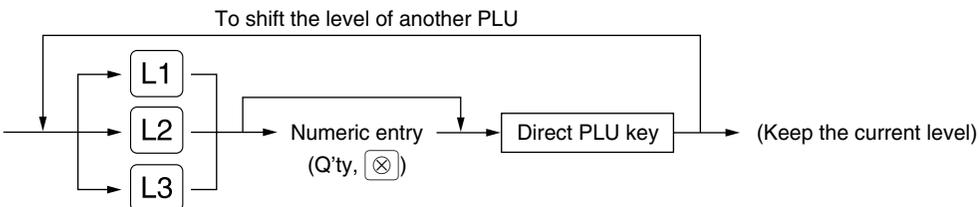
| Note | *If you select the automatic return mode, it is not necessary to use the* [L1] *key on the keyboard, but if you select the lock shift mode, it is necessary to use the key.* |

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

Key operation example	**Receipt print**

The machine returns to level 1 automatically. ⟶

L2
1
1
2
1
TL/NS
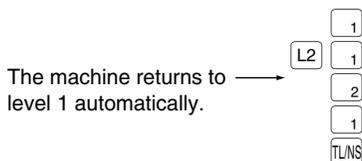
```
PLU. 0001        *5. 00
PLU. 0071        *3. 25
PLU. 0002        *5. 70
PLU. 0001        *5. 00

ITEMS        4Q
CASH  *18. 95
```

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

Key operation example	**Receipt print**

The machine keeps the level 2 until other level shift key is pressed.

L1 1
L2 1
2
1
L1 1
TL/NS
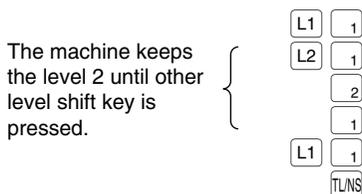
```
PLU. 0001        *5. 00
PLU. 0071        *3. 25
PLU. 0072        *1. 50
PLU. 0071        *3. 25
PLU. 0001        *5. 00

ITEMS        5Q
CASH  *18. 00
```

4 | Displaying Subtotals

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

Note	*Subtotal will not be printed on a receipt on the current factory setting. If you want to print it, change the setting by programming. Refer to "Receipt print format" (Job code 7) on page 66.*

5 Finalization of Transaction

■ Cash or cheque tendering

Press the ST key to get a subtotal, enter the amount tendered by your customer, then press the TL/NS key if it is a cash tender or press a cheque key (CH1 or CH2) if it is a cheque tender. When the amount tendered is greater than the amount of the sale, the register will show the change due amount with the function message "CHANGE". Otherwise the register will show a deficit with the function message "DUE". You now must make a correct tender entry.

Cash tendering

Key operation example	Receipt print
⸜ ST 1000 TL/NS	ITEMS 3Q ***TOTAL *7.35 CASH *10.00 CHANGE *2.65

Cheque tendering

Key operation example	Receipt print
⸜ ST 1000 CH1	ITEMS 3Q ***TOTAL *7.35 CHECK1 *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 a cheque key if it is a cheque sale. The register will display the total sale amount.

Key operation example	Receipt print
300 6 10 TL/NS	DEPT.06 *3.00 PLU.0010 *7.15 ITEMS 2Q CASH *10.15
	In the case of cheque 1 sale
	ITEMS 2Q CHECK1 *10.15

Note	*When programmed not to allow "direct non-tender finalization after tendering" (Job code 63, refer to page 68), you must always enter a tender amount.*

■ Credit sale

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

Key operation example	Receipt print

2500 `6`
7 `DEPT#` 3250 `DEPT#`
`CR1`

```
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	Receipt print

`ST`
950 `TL/NS`
`CR2`

```
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)

⟶ $\boxed{\text{ST}}$ ⟶ $\boxed{\text{VAT}}$
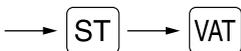
This system provides the VAT calculation for taxable 1 through 4 subtotals. This calculation is performed using the corresponding programmed percentages when the VAT key is pressed just after the ST key.

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

To use a programmed rate

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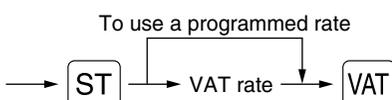
This system enables the VAT calculation for the then subtotal. This calculation is performed using the VAT 1 preset percentages when the VAT key is pressed just after the ST key. For this system, the keyed-in tax rate can be used.

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

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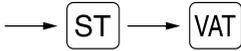
This system provides the tax calculation for taxable 1 through 4 subtotals. This calculation is performed using the corresponding programmed percentages when the VAT key is pressed just after the ST key.
After this calculation, you must finalize the transaction.

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

Note	• *The tax status of PLU/subdepartment depends on the tax status of the department which the PLU/subdepartment belongs to.*

 • *VAT/tax assignment symbol can be printed at the fixed right position near the amount on the receipt as follows:*

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 69.

Key operation example	**Receipt print**
(When the manual VAT 1-4 system is selected) 1000 `1` `ST` `VAT` `TL/NS`	DEPT.01 *10.00 SUBTOTAL *10.00 TAX1 ST *10.00 VAT 1 *1.38 NET 1 *8.62 ITEMS 1Q **CASH *10. 00**

■ VAT shift entries

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

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

Press the VAT SHIFT key to activate the VAT shift prior to entering department(s) or PLU(s) concerned. For programming the VAT shift operation timing, please refer to "Various Function Selection Programming 1" (Job code 70) on page 72.

Key operation example	**Receipt print**
(When the manual VAT 1-4 system is selected) `VAT SHIFT` 1000 `1` `ST` `VAT` `TL/NS`	DEPT.01 *10.00 SUBTOTAL *10.00 TAX2 ST *10.00 VAT 2 *0.65 NET 2 *9.35 ITEMS 1Q **CASH *10. 00**

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. Refer to "Programming for ％" for the programming.
 • Percentage: 0.01 to 100.00% (Depending on the programming)
 Application of preset rate (if programmed) and manual rate entry are available.

Percent calculation for subtotal

Key operation example	Receipt print
4 ⊗ 140 5 2 ST 10 ％ TL/NS	**4**x 1.40 DEPT.05 ＊5.60 PLU.0002 ＊5.70 SUBTOTAL ＊11.30 -10% ％1 -1.13 ITEMS 5Q **CASH ＊10.17**

Percent calculation for item entries

Key operation example	Receipt print

800 6
7 · 5 ％
10
％
TL/NS
 	
(When premium and 15% are
programmed for the ％ key)
	DEPT.06 ＊8.00
	  7.5%
	％1 ＊0.60
	PLU.0010 ＊7.15
	  15.00%
	％1 ＊1.07
	
	ITEMS 2Q
	CASH ＊16.82

■ Deduction entries

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

Deduction for subtotal

Key operation example	Receipt print
575 6 10 ST 100 ⊖ TL/NS	DEPT.06 ＊5.75 PLU.0010 ＊7.15 SUBTOTAL ＊12.90 (—) -1.00 ITEMS 2Q **CASH ＊11.90**

43

Deduction for item entries

Key operation example	Receipt print

7 `DEPT#` 675 `DEPT#`
`⊝`
`TL/NS`

(When a deduction amount of
0.75 is programmed.)

```
DEPT.07          *6.75
 (-)            -0.75

ITEMS         1Q
CASH     *6. OO
```

■ Refund entries

For departments 1 to 6, enter the refund amount and press the `RF` key, and then press the corresponding department key (when using the preset price, omit entering the amount), and for a departments 7 to 99, enter the department code and press the `RF` and `DEPT#` keys, then enter the refund amount and press the `DEPT#` key if necessary.

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

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

Key operation example	Receipt print

250 `RF` `6`
41 `RF` `DEPT#` 100 `DEPT#`
7 `⊗`
`RF` `13`
85 `RF` `PLU/SUB` 150 `PLU/SUB`
`TL/NS`

```
DEPT.06          R-2.50
DEPT.41          R-1.00
-7x 2.10
PLU.0013        R-14.70
PLU.0085        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 `#` key.

Key operation example	Receipt print

1230 `#`
1500 `6`
`CR1`

```
        #0000000000001230
DEPT.06         *15.00

ITEMS        1Q
CREDIT1   *15. OO
```

2 Guest Look-Up (GLU)

This feature is used to store and recall previous balances when a guest look-up (GLU) code is entered. You can accept re-order and issue bills with GLU codes. The GLU code refers to a code that is used whenever the guest check must be accessed for re-ordering or final payment.
The GLU code can be 1 to 50.

For new guest

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

For automatic GLU
code generation

GLU code (1-50) → GLU → Item entries →
To finalize temporarily *1 → NBAL → *2 → GC RCPT →
For settlement → Finalization operation →
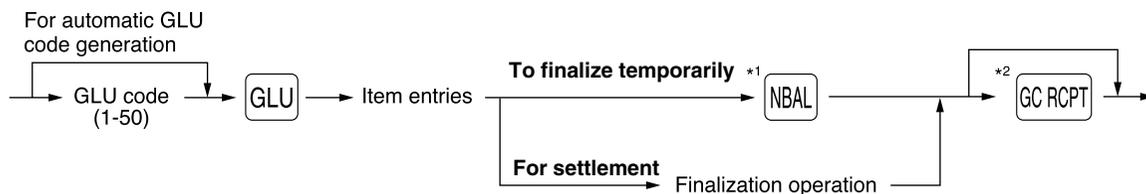
*1: The tax is not calculated.
*2: Press the GC RCPT key to issue a guest check receipt (bill). A print sample is shown on the next page.

Key operation example	Receipt print

Key operation example:

11 GLU
3500 2
2700 3
NBAL

Receipt print:

```
GLU#1 1                          ── GLU code
***PBAL          *0.00           ── Previous balance
DEPT.02         *35.00
DEPT.03         *27.00
***NBAL         *62.00           ── New balance
```

Note

• *Your register can be programmed to generate GLU codes automatically in a sequential fashion. If your register has not been programmed to do so, each GLU code must be entered manually. By default, GLU codes are generated automatically. For the programming, please refer to "Other programming" (job code 68) on page 70.*

• *You can enter a maximum of 50 items for each GLU code. When the machine detects only area for five items are left on the GLU buffer, the operator display shows "5 ITEMS REMAIN" to warn you the number of items you can enter furthermore and the number decrease one by one. When an error message "BUFFER FULL" is displayed, you cannot enter an item anymore.*
  By default, the details of items for each GLU are cleared when you press the GC RCPT key. You can clear the details when you press the NBAL key as well as the GC RCPT key when you change the default setting. To change the setting, please refer to "PLU level shift and GLU function parameters" on page 67.

• *You can change the printing style so that previous balance (PBAL) and new balance (NBAL) are printed on guest check receipts. To change the setting, please refer to "PLU level shift and GLU function parameters" on page 67.*

Additional ordering

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

By default, when entering an open GLU code, the cash register does not check if the clerk code is the same as the new order was made for the guest. If you want the register to check the clerk code, change the setting on "PLU level shift and GLU function parameters" (page 67). When the code is not the same, the register shows the error message "NO AUTHORITY" and does not accept additional order.

```
──────► Open GLU code ────►  GLU  ────► Item entries ────►  (Same as the operation for new guest)
              (1-50)
```
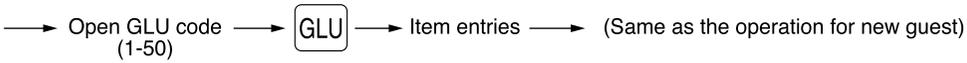
Key operation example	Receipt print
11 GLU 1400 5 1600 6 NBAL	GLU#**1 1** ***PBAL *62.00 DEPT.05 *14.00 DEPT.06 *16.00 ***NBAL *92.00

Settlement

Key operation example	Receipt print
11 GLU TL/NS	GLU#**1 1** ***PBAL *92.00 ITEMS 4Q CASH *92.00

Guest check receipt (bill)

	Receipt print
⟨ GC RCPT	* BILL * GLU#**1 1** DEPT.02 *35.00 DEPT.03 *27.00 DEPT.05 *14.00 DEPT.06 *16.00 ITEMS 4Q CASH *92.00

3 Auxiliary Payment Treatment

■ Currency exchange

For an additional payment in foreign currency

Preset exchange rate		For direct finalization	

After an entry
is completed
or
After the amount
tendered is found
smaller than the
sales amount in
a sales entry

*Exchange rate → [EX] → Amount tendered (max. 8 digits) → [TL/NS]

[CH1] or [CH2]

[CR1] or [CR2]

[CL] → Next registration or payment in domestic currency

Reentry
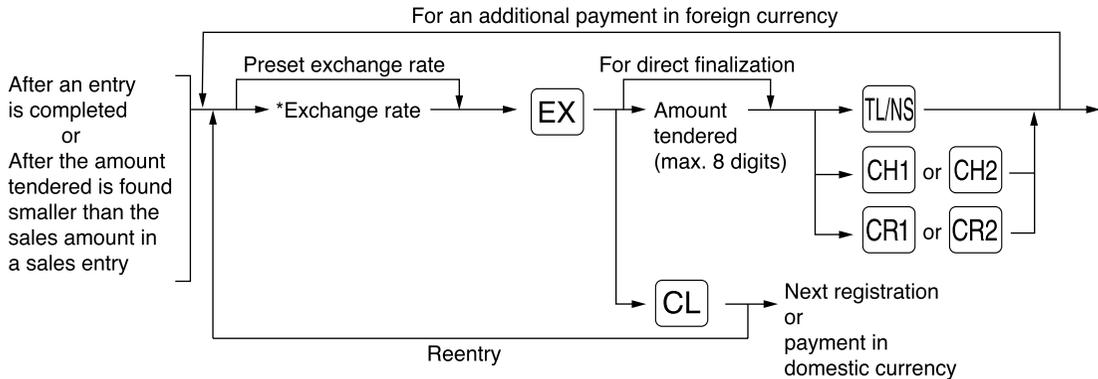
*Exchange rate: 0.000000 to 999.999999

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

Applying preset exchange rate

Key operation example

2300 [6]
7 [DEPT#] 4650 [DEPT#]
[EX]

Currency exchange ⟶
Amount tendered in foreign currency ⟶ 10000 [TL/NS]

(When a currency exchange rate of 0.939938 is programmed for the [EX] key.)

Receipt print

```
DEPT.06          *23.00
DEPT.07          *46.50

ITEMS              20
***TOTAL       *69. 50      — Domestic currency
EXCH1          0.939938     — Exchange rate
               US $65.33    ┐ Foreign currency
CASH          US $100.00    ┘
CHANGE            *36.88     — Domestic currency
```

Foreign currency symbol
(Printed if programmed)

Applying manual exchange rate

Key operation example

2300 [6]
7 [DEPT#] 4650 [DEPT#]
Exchange rate ⟶ 1 [.] 275 [EX]
10000 [TL/NS]

Receipt print

```
DEPT.06          *23.00
DEPT.07          *46.50

ITEMS              20
***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 RA key. For the received-on-account (RA) entry, enter the amount, and press the RA key.

Note *Cash tendering only available for RA operation.*

Key operation example	Receipt print
12345 # 4800 RA	#0000000000012345 ***RA *48. 00

■ Paid-out entries

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

Note *Cash tendering only available for PO operation.*

Key operation example	Receipt print
54321 # 2300 PO	#0000000000054321 ***PO *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. Refer to "Other programming" (job code 63) for the programming.

```
                    #0000000000045678
NO SALE
```

4 Automatic Sequence Key (AUTO key) Entries

You can achieve a programmed transaction simply by pressing the AUTO key. Refer to "AUTO key programming - Automatic sequence key" for the programming.

Key operation example	Receipt print
AUTO (AUTO = 500 6 TL/NS)	DEPT.06 *5.00 ITEMS 1Q **CASH *5. 00**

PRIOR TO PROGRAMMING

■ Procedure for programming

1. Check to see whether a paper roll is present in the machine. If there is not enough paper on a roll, replace it with a new one (refer to "Replacing the Paper Roll" on page 89 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 "22052007" indicates the parameter which must be entered using the corresponding numeric keys.
• Asterisks in the tables shown in the programming details indicate default settings.

■ Guidance messages

Depending on programming items, the register shows guidance messages on the operator display to indicate a programming item you are in, or guidance to enter data, as shown in the examples below.

Your register allows you to program all necessary data in one procedure with the guidance messages for department programming (page 17), PLU (Price Look-Up) and subdepartment programming (page 22), programming for the ⊖, %, EX, RA, PO, CH1, CH2, CR1 and CR2 keys (pages 52-60). For their guidance messages, please refer to each section.

Example 1: For key entry type programming

Key operation example	Operator display
Parameter/price entry ⟶ 008 ⊗ (In case of parameter entry)	008 ⟵ To repeat (depending on programming)
Press of the subjected key ⟶ ST • Guidance message is displayed.	PAYMENT KEY PROG ⟵ Guidance message is kept displaying until you press the TL/NS key.
To terminate ⟶ TL/NS	0.00

Example 2: Job code type programming (programming starting from the press of ⟨ST⟩.)

Key operation example		Operator display
Job code entry • Guidance message is displayed.	⟶ ⟨ST⟩ 1 ⟨⊗⟩	MACHINE NO.
Parameter entry	⟶ 50	50
Registration of parameter	⟶ ⟨ST⟩	ENTER[TL/NS]KEY
To terminate	⟶ ⟨TL/NS⟩	0.00

To repeat
(depending on programming)

Guidance message is changed after a new job code entry.

■ Entering character codes with numeric keys on the keyboard

For entering numerals, letters or symbols, enter a character code using numeric keys and press the numeric key ⟨00⟩. For the character codes, please refer to the alphanumeric character code table on the next page. By doing this, you can program characters other than those on the key tops. For entering numerals, letters or symbols using character keys, refer to "Using character keys" on page 14.

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

Key operation example	Operator display
253 ⟨00⟩	Cursor ■ W └ Characters entered are displayed here.
065	065 └ Character code
⟨00⟩	=A■ W └ Characters: Indicating double size character of "A"

⟨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
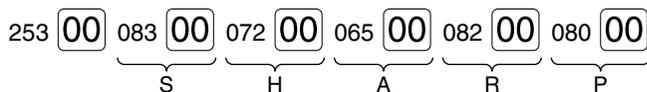
Alphanumeric character code table

Code	Character	Code	Character	Code	Character	Code	Character	Code	Character
001	á	046	.	091	Ä	136	→	193	¡
002	â	047	/	092	Ö	137	﹏	194	Ġ
003	ê	048	0	093	Ü	138	﹏	195	Ş
004	î	049	1	094	^	139	◄	196	Ģ
005	ì	050	2	095	_	140	►	197	ġ
006	í	051	3	096	'	141	F	198	Ķ
007	ô	052	4	097	a	142	T	199	ķ
008	ó	053	5	098	b	143	↓	200	Ļ
009	û	054	6	099	c	144	ç	201	J
010	ú	055	7	100	d	145	°	202	Ž
011	œ	056	8	101	e	146	¿	203	Đ
012	ű	057	9	102	f	147	ù	204	đ
013	ú	058	:	103	g	148	à	205	Ć
014	ő	059	;	104	h	149	Æ	206	ć
015	ó	060	<	105	i	150	ø	207	€
016	Λ	061	=	106	j	151	Å	208	Ᵽ
017	Ψ	062	>	107	k	152	¤	209	`
018	Γ	063	?	108	l	153	é	210	ě
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	ı	213	ž
022	Θ	067	C	112	p	157	Ñ	214	ý
023	Ξ	068	D	113	q	158	ò	215	ú
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	⌐	219	ř
028	Ú	073	I	118	v	163	⌐	224	∗
029	Ú	074	J	119	w	164	`	225	§
030	Ő	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	l	181	ā	230	[
035	#	080	P	125	}	182	Ē	231	"
036	$	081	Q	126	ß	183	ē	232	ä
037	%	082	R	127	¢	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	å
041	)	086	V	131	₃	188	Ṇ	237	É
042	∗	087	W	132	₄	189	ṇ	238	ñ
043	+	088	X	133	1/2	190	Č	253	*(DC)
044	,	089	Y	134	Fᴛ	191	Š		
045	-	090	Z	135	←	192	Ç		

*(DC): Double-size character code

▒ : The shaded characters cannot be correctly displayed; a similar character or a space is displayed instead.

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

AUXILIARY FUNCTION PROGRAMMING

1 Miscellaneous Key Programming

The cash register provides miscellaneous keys such as ⊖, %, EX, RA, PO, CH1, CH2, CR1, CR2 and TL/NS. Miscellaneous keys are programmed in one procedure with guidance messages except for the TL/NS key.

| Note | • To keep current setting on each programming, press the ST key when the corresponding guidance message is firstly displayed.
• When pressing the TL/NS key in the middle of procedure, the programming will terminate and the data you entered before the press of TL/NS is saved.
• When pressing the CL key twice in the middle of procedure, the programming will terminate and the data you entered before pressing the CL key twice is NOT saved.
• When pressing the department, PLU, ⊖, %, EX, RA, PO, CH1, CH2, CR1 or CR2 key in the middle of procedure except while entering texts or prices, the programming will move to the pressed key programming. |

■ Programming for ⊖

	Key operation	Operator display

1. Specify the key to program.

(1) Press the ⊖ to enter ⊖ programming.
Immediately after displaying "(-) PROGRAMMING",
guidance message for the next step will be displayed.

⊖

```
(-) PROGRAMMING
```
↓
```
ENTER[00]KEY
```

2. Text programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Press 00 key to enter text programming.
Immediately after displaying guidance message, the
current text data will be displayed.

00

```
ENTER TEXT
```
↓
```
=(=-=)
```

(2) Enter the text.
A maximum of 16 characters can be entered.
Please refer to "Guidance for text programming" on
page 14 for entering the text.
When you start entering a character, the current
text data will be overwritten by new data.
Pressing the · and ⊗ key moves the cursor to
the right and left respectively.

(-)

```
(-)
```

(3) Press the ST key to register the text.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST

```
ENTER AMOUNT
```
↓
```
          -0.00
```

3. Amount programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Enter the amount using numeric keys.
A maximum of 6 digits can be set.
Default setting is 0.

300

```
           300
```

(2) Press the ST key to register the amount.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST

SIGN

↓

	(-)

4. **Sign programming** (Press ST to skip. / Press TL/NS to terminate.)

(1) Go to (2) when the sign does not need to be
changed from "(-)". Otherwise, press 00 key to
display "(+)".
Each time 00 key is pressed, the display shows
"(+)" and "(-)" alternatively.
Choose "(-)" for discount and "(+)" for premium.
Default setting is "(-)".

(2) Press the ST key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST

ENTRY FOR ITEM

↓

	ITEM ENABLE

5. **Discount calculation (for the items) programming** (Press ST to skip. / Press TL/NS to terminate.)

(1) Go to (2) when the discount calculation for the items
does not need to be changed from "ITEM
ENABLE". Otherwise, press 00 key to display
"ITEM DISABLE".
Each time 00 key is pressed, the display shows
"ITEM DISABLE" and "ITEM ENABLE" alternatively.
Default setting is "ENABLE".

(2) Press the ST key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST

ENTRY FOR SBTL

↓

	SBTL ENABLE

6. **Discount calculation (for the subtotals) programming** (Press ST to skip. / Press TL/NS to terminate.)

(1) Go to (2) when the discount calculation for the
subtotals does not need to be changed from "SBTL
ENABLE". Otherwise, press 00 key to display
"SBTL DISABLE".
Each time 00 key is pressed, the display shows
"SBTL DISABLE" and "SBTL ENABLE" alternatively.
Default setting is "ENABLE".

(2) Press the ST key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST

LIMIT DIGITS

↓

	8

7. Entry digit limit programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Enter entry digit limit using numeric key.
The entry digit limit can be set up to 8.
Default setting is 8.
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.

7 | 7 |

(2) Press the ST key to register the setting.

ST | ENTER[TL/NS]KEY |

8. Terminate programming

(1) Press the TL/NS key to terminate the ⊖ key
programming.

TL/NS | 0.00 |

Print

```
*PGM*
F01 (-)            007  ——From left, ABC
                 -3.00
```
Text   Amount
                Sign
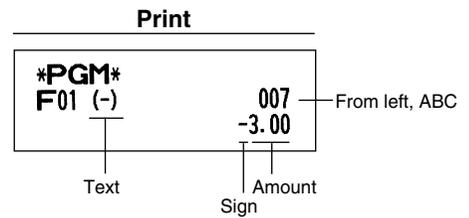
Item:		Selection:	Print:
A	Discount calculation	Enable*	0
	(for the items)	Disable	1
B	Discount calculation	Enable*	0
	(for the subtotals)	Disable	1
C	Entry digit limit	0-8(default:8)	

■ Programming for %

	Key operation	Operator display

1. Specify the key to program.

(1) Press the % key to enter % programming.
Immediately after displaying "%1 PROGRAMMING",
guidance message for the next step will be displayed.

% | %1 PROGRAMMING |
↓
| ENTER[00]KEY |

2. Text programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Press 00 key to enter text programming.
Immediately after displaying guidance message, the
current text data will be displayed.

00 | ENTER TEXT |
↓
| =%=1 |

(2) Enter the text.
A maximum of 16 characters can be entered.
Please refer to "Guidance for text programming" on
page 14 for entering the text.
When you start entering a character, the current
text data will be overwritten by new data.
Pressing the ⟦ · ⟧ and ⟦⊗⟧ key moves the cursor to
the right and left respectively.

%

％

(3) Press the ⟦ST⟧ key to register the text.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

⟦ST⟧

ENTER RATE

↓

0.00

3. Rate programming (Press ⟦ST⟧ to skip. / Press ⟦TL/NS⟧ to terminate.)

(1) Enter the rate using numeric keys, using a decimal
point when setting fractional rates.
The rate can be set from 0.00 to 100.00.
Default setting is 0.

15.00

15.00

(2) Press the ⟦ST⟧ key to register the rate.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

⟦ST⟧

SIGN

↓

(−)

4. Sign programming (Press ⟦ST⟧ to skip. / Press ⟦TL/NS⟧ to terminate.)

(1) Go to (2) when the sign does not need to be
changed from "(-)". Otherwise, press ⟦00⟧ key to
display "(+)".
Each time ⟦00⟧ key is pressed, the display shows
"(+)" and "(-)" alternatively.
Choose "(-)" for discount and "(+)" for premium.
Default setting is "(-)".

(2) Press the ⟦ST⟧ key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

⟦ST⟧

ENTRY FOR ITEM

↓

ITEM ENABLE

5. Discount calculation (for the items) programming (Press ⟦ST⟧ to skip. / Press ⟦TL/NS⟧ to terminate.)

(1) Go to (2) when the discount calculation for the items
does not need to be changed from "ITEM
ENABLE". Otherwise, press ⟦00⟧ key to display
"ITEM DISABLE".
Each time ⟦00⟧ key is pressed, the display shows
"ITEM DISABLE" and "ITEM ENABLE" alternatively.
Default setting is "ENABLE".

(2) Press the ⟦ST⟧ key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

⟦ST⟧

ENTRY FOR SBTL

↓

SBTL ENABLE

55

6. Discount calculation (for the subtotals) programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Go to (2) when the discount calculation for the
subtotals does not need to be changed from "SBTL
ENABLE". Otherwise, press 00 key to display
"SBTL DISABLE".
Each time 00 key is pressed, the display shows
"SBTL DISABLE" and "SBTL ENABLE" alternatively.
Default setting is "ENABLE".

(2) Press the ST key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST | % HALO PROG.
↓
| 100.00

7. Percent rate limit programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Enter percent rate limit using numeric key.
The rate limit can be set from 0.00 to 100.00.
Default setting is 100.00.

90.00 | 90.00

(2) Press the ST key to register the setting.

ST | ENTER[TL/NS]KEY

8. Terminate programming

(1) Press the TL/NS key to terminate the % key
programming.

TL/NS | 0.00

Print

```
*PGM*
F02 %                          000 ——From left, ABC
L 90.00%            -15.00%
```
Text | Percent rate
Sign
Percentage rate limit
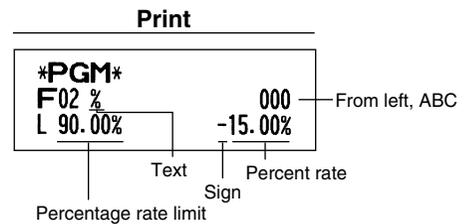
Item:		Selection:	Print:
A	Discount calculation	Enable*	0
	(for the items)	Disable	1
B	Discount calculation	Enable*	0
	(for the subtotals)	Disable	1
C	Always 0 is printed.		0

■ Programming for EX

	Key operation	Operator display

1. Specify the key to program.

(1) Press the EX key to enter EX programming.
Immediately after displaying "EXCHANGE PROG.",
guidance message for the next step will be displayed.

EX | EXCHANGE PROG.
↓
ENTER[00]KEY
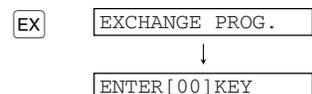
2. **Text programming** (Press ST to skip)

(1) Press 00 key to enter text programming.
Immediately after displaying guidance message, the
current text data will be displayed.

00 | ENTER TEXT |
↓
| EXCH1 |

(2) Enter the text.
A maximum of 16 characters can be entered.
Please refer to "Guidance for text programming" on
page 14 for entering the text.
When you start entering a character, the current
text data will be overwritten by new data.
Pressing the ⸱ and ⊗ key moves the cursor to
the right and left respectively.

EX | EX |

(3) Press the ST key to register the text.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST | ENTER EX RATE |
↓
| 0.000000 |

3. **Rate programming** (Press ST to skip. / Press T/NS to terminate.)

(1) Enter the rate using numeric keys, using a decimal
point when setting fractional rates.
The rate can be set from 0.000000 to 999.999999.
Default setting is 0.000000.

0.939938 | 0.939938 |

(2) Press the ST key to register the rate.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST | OPEN RATE ENTRY |
↓
| OPEN ENABLE |
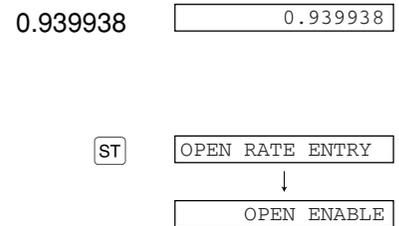
4. **Open rate entry programming** (Press ST to skip. / Press T/NS to terminate.)

(1) Go to (2) when the open rate entry does not need to
be changed from "OPEN ENABLE". Otherwise,
press 00 key to display "OPEN DISABLE".
Each time 00 key is pressed, the display shows
"OPEN DISABLE" and "OPEN ENABLE" alternatively.
Default setting is "ENABLE".

(2) Press the ST key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST | PRESET RATE |
↓
| PRESET ENABLE |
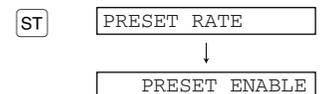
5. **Preset rate entry programming** (Press ST to skip. / Press T/NS to terminate.)

(1) Go to (2) when the preset rate entry does not need to
be changed from "PRESET ENABLE". Otherwise,
press 00 key to display "PRESEST DISABLE".
Each time 00 key is pressed, the display shows
"PRESET DISABLE" and "PRESET ENABLE"
alternatively.
Default setting is "ENABLE".

(2) Press the ST key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

ST `TAB`

↓

`2`
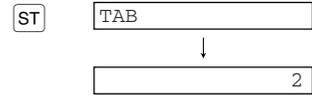
6. Position of decimal point programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Enter the position of decimal point from right using
numeric key.
The position of decimal point from right can be set
from 0 to 3.
Default setting is 2.

2 `2`

(2) Press the ST key to register the setting.

ST `ENTER[TL/NS]KEY`

7. Terminate programming

(1) Press the TL/NS key to terminate the EX key
programming.

TL/NS `0.00`

Print

```
*PGM*
F38 EX              002  ──── From left, ABC
            0.939938
```

Text   Rate
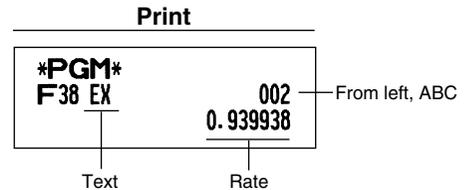
Item:		Selection:	Print:
A	Open rate entry	Enable*	0
		Disable	1
B	Preset rate entry	Enable*	0
		Disable	1
C	TAB (position of decimal point from right)	0-3 (default:2)	

■ Programming for RA, PO, CH1, CH2, CR1 and CR2

The CH1 key is used as an example below.
Programming for RA and PO, the step 3 and 4 are skipped.

	Key operation	**Operator display**

1. Specify the key to program.

(1) Press the CH1 key to enter CH1 programming.
Immediately after displaying "CH1 PROGRAMMING",
guidance message for the next step will be displayed.
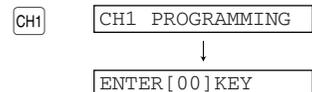
CH1 `CH1 PROGRAMMING`

↓

`ENTER[00]KEY`

2. Text programming (Press ST to skip. / Press TL/NS to terminate.)

(1) Press 00 key to enter text programming.
Immediately after displaying guidance message, the
current text data will be displayed.

00 `ENTER TEXT`

↓

`CHECK1`
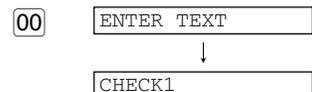
(2) Enter the text.
A maximum of 16 characters can be entered.
Please refer to "Guidance for text programming" on
page 14 for entering the text.
When you start entering a character, the current
text data will be overwritten by new data.
Pressing the ⟨ · ⟩ and ⟨⊗⟩ key moves the cursor to
the right and left respectively.

CHEQUE | CHEQUE |

(3) Press the ⟨ST⟩ key to register the text.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

⟨ST⟩ | FOOTER PRINT |
↓
| NO |

3. Footer print on receipt programming (Press ⟨ST⟩ to skip. / Press ⟨TL/NS⟩ to terminate.)

(1) Go to (2) when the footer print on receipt does not
need to be changed from "NO". Otherwise, press
⟨00⟩ key to display "YES".
Each time ⟨00⟩ key is pressed, the display shows
"YES" and "NO" alternatively.
Default setting is "NO".
This programming decides whether or not the
machine should print a message at the foot of a
receipt when a specified key is used. With regard
to programming method of footer logo message,
refer to "Logo messages" section on page 25.

(2) Press the ⟨ST⟩ key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

⟨ST⟩ | AMOUNT TENDERED |
↓
| NON COMPULSORY |

4. Entry of amount tendered programming (Press ⟨ST⟩ to skip. / Press ⟨TL/NS⟩ to terminate.)

(1) Go to (2) when the entry of amount tendered does
not need to be changed from "NON
COMPULSORY". Otherwise, press ⟨00⟩ key to
display "COMPULSORY".
Each time ⟨00⟩ key is pressed, the display shows
"COMPULSORY" and "NON COMPULSORY"
alternatively. In case of ⟨CR1⟩ and ⟨CR2⟩ programming,
"INHIBIT" is displayed instead of "NON
COMPULSORY".
Default setting is "NON COMPULSORY" or "INHIBIT".

(2) Press the ⟨ST⟩ key to register the setting.
Immediately after displaying guidance message for
the next step, the current setting for the next step
will be displayed.

⟨ST⟩ | LIMIT DIGITS |
↓
| 8 |

59

5. **Entry digit limit programming** (Press ST to skip. / Press TL/NS to terminate.)

(1) Enter entry digit limit using numeric key.
The entry digit limit can be set up to 8.
Default setting is 8.
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.

7 | 7 |

(2) Press the ST key to register the setting.
In the case of programming for the CH1 and CR1
keys, the display shows "CH2 PROGRAMMING"
and "CR2 PROGRAMMING" respectively. Go to
step 2 to program the CH2 and CR2 keys.
In the case of programming for the RA, PO, CH2 and
CR2 keys, the display shows "ENTER[TL/NS]KEY".
Go to step 6.

ST | CH2 PROGRAMMING |
↓
| ENTER[00]KEY |

6. **Terminate programming**

(1) Press the TL/NS key to terminate the CH1 key
programming.

TL/NS | 0.00 |

Print

```
*PGM*
F34 CHEQUE        007
```
— From left, ABC

Text
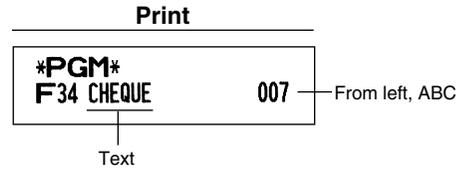
Item:		Selection:	Print:
A	Footer print	No*	0
		Yes	1
B	Amount tendered entry	Non compulsory (for CH1 and CH2)*	0
		Inhibit (for CR1 and CR2)*	0
		Compulsory	1
C	Entry digit limit		0-8 (default:8)

■ Function parameters for TL/NS

Procedure

To program 0 for all items

→ *1ABC → ⊗ → ST → TL/NS

To program for another key
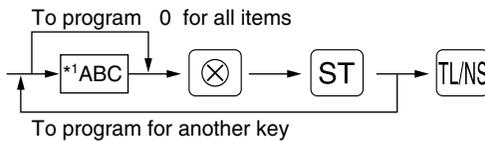
*1: **Item:**		**Selection:**	**Entry:**
A	Footer printing*	Allow	1
		Disallow*	0
B	Amount tendered entry*	Compulsory	1
		Non-compulsory*	0
C	Entry digit limit		0-8 (default:8)

60

Footer printing

 • This programming decides whether or not the machine should print a message at the foot of a receipt when the TL/NS key is used. With regard to programming method of footer logo message, refer to "Logo messages" section on page 25.

Amount tendered entry

 • You may select amount tendered, compulsory or optional.

Entry digit limit

 • 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	**Print**
018 ⊗ ST TL/NS	*PGM* F33 **CASH** 018 ──From left, ABC

---

2   Other Text Programming

Please refer to "Guidance for text programming" on page 14 as for how to entering characters.

■ **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

To keep the current setting

ST → 6 → • → Character keys (max. 4 digits) → ST → TL/NS

Key operation example	**Print**
ST 6 • US (SPACE) \$ ST TL/NS	*PGM* F38 EXCH1 002 US \$ 0.939938 ──Foreign currency symbol

■ **Domestic currency symbol** (4 digits)

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

Procedure

To keep the current setting

ST → 85 → • → Character keys (max. 4 digits) → ST → TL/NS

Key operation example	**Print**
ST 85 • (SPACE) (SPACE) (SPACE) Entry using → 207 00 character code ST TL/NS	*PGM* #85 € ──Domestic currency symbol

■ 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

To keep the current setting

$\boxed{\text{ST}} \longrightarrow 87 \longrightarrow \boxed{\cdot} \longrightarrow$ Character keys (max. 12 digits) $\longrightarrow \boxed{\text{ST}} \longrightarrow \boxed{\text{TL/NS}}$

Key operation example	**Print**
ST 87 · (SPACE) (SPACE) TRANING (SPACE) (SPACE) ST TL/NS	*PGM* #87 TRAINING
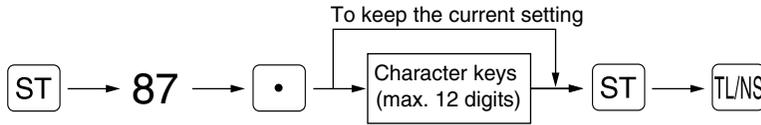
Note | *The programmed text is printed in double-size characters on the receipts issued in the training mode.*

■ Function text (12 digits)

Procedure

To keep the current setting

$\boxed{\text{ST}} \longrightarrow 3 \longrightarrow \boxed{\cdot} \longrightarrow$ *Function no. (max. 2 digits) $\longrightarrow \boxed{\otimes} \longrightarrow$ Character keys (max. 12 digits) $\longrightarrow \boxed{\text{ST}} \longrightarrow \boxed{\text{TL/NS}}$

To program another function text
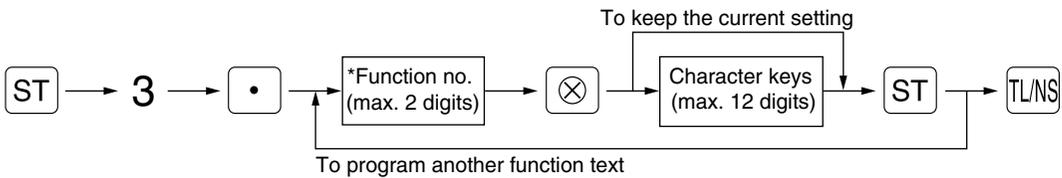
* Function no.: See "List of function texts" shown on the next page.
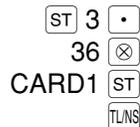
Key operation example	**Print**
ST 3 · 36 ⊗ CARD1 ST TL/NS	*PGM* F36 CARD1 008
(Programming CARD1 for credit 1)	

62

■ List of function texts

Function no.	Key or function	Default setting	Function no.	Key or function	Default setting
1	⊖	**(−)**	42	Cash in drawer	✳✳✳✳ CID
2	%	**%1**	43	Cash/cheque in drawer	CA/CH ID
4	Differ	DIFFER	44	Change for cheque	CHK/CG
5	Taxable 1 subtotal	TAX1 ST	45	Domestic currency 1	DOM.CUR1
6	Taxable 2 subtotal	TAX2 ST	46	Domestic currency 2	DOM.CUR2
7	Taxable 3 subtotal	TAX3 ST	47	Dom. currency for EX cheque	DOM.CUR1
8	Taxable 4 subtotal	TAX4 ST	48	Dom. currency for EX credit	DOM.CUR1
9	VAT/tax 1	VAT 1	49	Cheque in drawer	✳CH ID
10	VAT/tax 2	VAT 2	50	(+) Dept total	✳DEPT TL
11	VAT/tax 3	VAT 3	51	(-) Dept total	DEPT (-)
12	VAT/tax 4	VAT 4	52	Net 1 (Taxable 1 - VAT/tax 1)	NET 1
13	Net 1	**NET1**	53	Net 2 (Taxable 2 - VAT/tax 2)	NET 2
14	VAT shift	VAT SFT	54	Net 3 (Taxable 3 - VAT/tax 3)	NET 3
15	VAT/tax delete	TAX DELE	55	Net 4 (Taxable 4 - VAT/tax 4)	NET 4
16	Net 2	**NET2**	56	Subtotal	SUBTOTAL
17	Refund	REFUND	57	Merchandise subtotal	MDSE ST
18	Void	∽	58	Total	✳✳✳ TOTAL
19	Void mode total	∽ MODE	59	Change	CHANGE
20	Manager void	MGR ∽	60	Sales q'ty	ITEMS
21	Subtotal void	SBTL ∽	61	Due	DUE
22	Bill counter	BILL CNT	62	Exchange (Preset rate) change	EX1 CHG
23	No sale	NO SALE	63	Amount	AMOUNT
24	Previous balance	✳✳✳PBAL	64	Total tax	TTL TAX
25	New balance	✳✳✳NBAL	65	Old balance	OLD BAL.
26	Customer	GUEST	66	New balance	BALANCE
27	Order total	ORDER TL	67	Net without tax (on report)	**NET**
28	Paid total	PAID TL	68	Department report title	**DEPT**
29	Average	AVE.	69	PLU report title	**PLU**
30	Order total — paid total	**O−P**	70	Transaction report title	**TRANS.**
31	RA	✳✳✳RA	71	Clerk report title	**CLERK**
32	PO	✳✳✳PO	72	Hourly report title	**HOURLY**
33	Cash	**CASH**	73	GLU report title	**GLU**
34	Cheque 1	CHECK1	74	GLU code	GLU#
35	Cheque 2	CHECK2	75	Balance report title	BALANCE
36	Credit 1	CREDIT1	76	Non add symbol (8 chara.)	#
37	Credit 2	CREDIT2	77	Copy receipt title	**COPY**
38	Exchange (Preset rate)	EXCH1	78	Guest check receipt title	**BILL**
39	Exchange (Open rate)	EXCH2	79	EJ report title	**EJ**
40	Exchange cheque	EX1 CHK	80	EJ report end title	**EJ** END
41	Exchange credit	EX1 CR			

ADVANCED FUNCTION PROGRAMMING

1 Register Number and Consecutive Number Programming

The register number and consecutive numbers are printed on every receipt or journal.
When your store has two or more registers, it is practical to set separate register numbers for identification. The consecutive number is increased by one each time a receipt is issued or when a journal print occurs.
For consecutive number programming, enter a number (max. 6 digits) that is one less than the desired starting number.

■ Register number

Procedure

To set the register number 0

$\boxed{\text{ST}} \rightarrow 1 \rightarrow \boxed{\otimes} \rightarrow \boxed{\text{Register number (one to six digits)}} \rightarrow \boxed{\text{ST}} \rightarrow \boxed{\text{TL/NS}}$
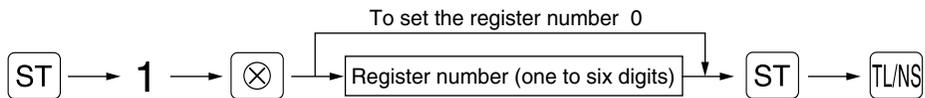
Key operation example	Print
ST 1 ⊗ 123456 ST TL/NS	*PGM* #1 123456 — Register number

■ Consecutive number

Procedure

To begin the count from 000001

$\boxed{\text{ST}} \rightarrow 2 \rightarrow \boxed{\otimes} \rightarrow \boxed{\begin{array}{l}\text{A number (one to six digits) that is one}\\\text{less than the desired starting number}\end{array}} \rightarrow \boxed{\text{ST}} \rightarrow \boxed{\text{TL/NS}}$
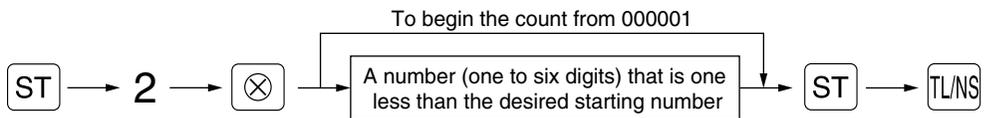
Key operation example	Print
ST 2 ⊗ 1000 ST TL/NS	*PGM* #2 001000 — Consecutive number

2 Various Function Selection Programming 1

The cash register provides various detailed functions listed below.
 • Function selection for miscellaneous keys
 • Print format
 • Receipt print format
 • PLU level shift and GLU function parameters
 • Others

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

Procedure

To set 00000000

$$\boxed{ST} \longrightarrow \boxed{\text{*1Job code}} \longrightarrow \boxed{\otimes} \longrightarrow \boxed{\text{*2ABCDEFGH}} \longrightarrow \boxed{ST} \longrightarrow \boxed{TL/NS}$$
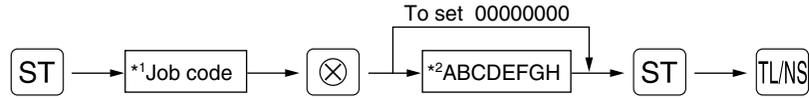
*1 Enter job code using numeric keys specified in each section below.
*2 Data entry details are listed on each table in each section below. An asterisk is entered for factory setting.

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

Key operation example	Print
ST 5 ⊗ 00000100 ST TL/NS	*PGM* #5 00000100

■ Function selection for miscellaneous keys

Job code: 5

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

■ Print format

Job code: 6

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

Printing style

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

■ Receipt print format

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*	0
		Yes	1
D	Always enter 0.		0
E	VAT/tax amount print	Yes*	0
		No	1
F	Taxable amount print	Yes*	0
		No	1
G	Net amount print	Yes*	0
		No	1
H	Purchase no. print	Yes*	0
		No	1

■ PLU level shift and GLU function parameters

Job code: 15

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

■ Other programming

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

Job code: 61

* Item:		Selection:	Entry:
A	Always enter 0.		0
B	Always enter 0.		0
C	Negative dept. and PLU/subdept.	Disable	0
		Enable*	1
D	Fractional treatment	Round off (4 down, 5 up)*	0
		Raising to unit	1
		Disregarding fractional treatment	2
E	Use of 00 key	As 00 key*	0
		As 000 key	1
F	Time format	12-hour format	0
		24-hour format*	1
G	Date format	Use month-day-year format	0
		Use day-month-year format*	1
		Use year-month-day format	2
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	0
		Misoperation*	1
C	Key catch sound	Yes*	0
		No	1
D	Buffered keyboard	Yes*	0
		No	1
E	Void mode	Enable*	0
		Disable	1
F	Printing of void mode in X2/Z2 report	Yes*	0
		No	1
G	Printing of void mode in X1/Z1 report	Yes*	0
		No	1
H	Addition to the hourly total in VOID mode	No*	0
		Yes	1

Job code: 63

* Item:		Selection:	Entry:
A	Receipting at the time of "no sale" entry	Yes*	0
		No	1
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: 65

*	Item:	Selection:	Entry:
A	Printing of balance GT on Z report	Yes	0
		No*	1
B	Resetting of balance GT at the general Z1 report	No*	0
		Yes	1
C to **H**	Always enter 0.		0

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 SBTL printing of native SBTL	Yes*	0
		No	1
D	VAT/tax assignment print	Yes	0
		No*	1
E	Compression print on journal at PGM, 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
		Only on selected function key at the time of finalization	1

Compression print on journal

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

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 CH1, CH2, 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	Memory of difference due to rounding	No*	0
		Yes	1
H	Limit of the least significant digit in entering amount of payment	Arbitrary*	0
		0 only	1
		0 and 5 only	2

Rounding amount printing (A)
Total amount rounding when a transaction is finalized directly by [CH1], [CH2], [CR1] or [CR2] **key(B)**
 • When you live in Australia, set as shown on the tale below for the parameters A and B.
Rounding up of the unit digit of amount (C)
Rounding down of the unit digit of amount (D)
 • Handle C and D as a pair. When you live in Australia, Switzerland, Norway or South Africa, set as shown on
 the table below for the parameters C and D.
 The rounding is performed as follows:
 In case C = 0: Unit digit of amount < or = Value of D — rounding down
         Value of D < or = Unit digit of amount — rounding to 5
 In other cases: Unit digit of amount < or = Value of D — rounding down
         Value of D < Unit digit of amount < Value of C — rounding to 5
         Value of C < or = Unit digit of amount — rounding up
Application of rounding (E)
Limit of the least significant digit in entering amount of item (F)
Memory of difference due to rounding (G)
Limit of the least significant digit in entering amount of payment (H)
 • When you live in Australia, Switzerland, Norway or South Africa, set as shown on the table below for the
 parameters E through H.

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

	A	B	CD	E	F	G	H
Australia	Yes	Not rounding	82	Payment*	Arbitrary	Yes	0 and 5 only

 * Applied to payment by cash and change amount.

Job code: 68

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

Temporary EJ printing during a transaction

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

PGM mode operation records type

• The header information only is printed during the program reading operation.

The header information only is printed for X/Z reports.

(Receipt sample for Header Information only)

```
22/05/2007 123456#001104
  8:21    01 CLERK 01
*X1*
*  DEPT  *
*TRANS. *
```

Action when EJ memory area is full

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

Job code: 69

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

Rounding system

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

Job code: 70

* Item:		Selection:	Entry:
A	VAT shift operation timing	Only during a transaction*	1
		Only at the start of transaction	0
B	Always enter 0.		0
C	Always enter 0.		0
D	Always enter 0.		0
E	Always enter 0.		0
F	Always enter 0.		0
G	Always enter 0.		0
H	Always enter 0.		0

3 Various Function Selection Programming 2

The cash register provides various options so you can use the register to suit your sales needs.
In this section, you can program the following features (parameters within parentheses indicate 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)
• EJ memory type (EJ 9000 records and PLU 210 codes)
• Training clerk specification (none) - If you specify a clerk number who is trained for use on this cash register,
 the cash register will go into training mode when the clerk is signed on for sales entries. The sales operations
 done by the trained clerk do not affect sales totals. For details, refer to TRAINING MODE section.

■ Power save mode

Procedure

$\boxed{\text{ST}} \rightarrow 10 \rightarrow \boxed{\otimes} \rightarrow \boxed{\text{*ABCD}} \rightarrow \boxed{\text{ST}} \rightarrow \boxed{\text{TL/NS}}$
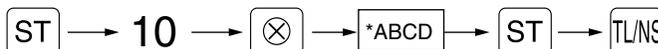
* Item:		Selection:	Entry:
A	Entering power save mode	Yes*	0
	when time is displayed	No	1
B-D	Time(min.) to entering power save mode		001-254 or 999
	since no operation is made		(Default 030)

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

Key operation example	Print
$\boxed{\text{ST}}$ 10 $\boxed{\otimes}$ 0060 $\boxed{\text{ST}}$ $\boxed{\text{TL/NS}}$	*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 25.

Procedure

To set 0

$\boxed{ST} \rightarrow 11 \rightarrow \boxed{\otimes} \rightarrow \boxed{\text{*A}} \rightarrow \boxed{ST} \rightarrow \boxed{TL/NS}$
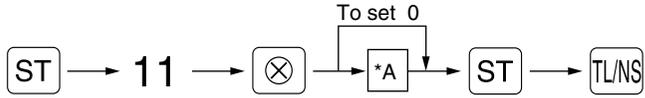
*A: Logo message type
     0: Header 3-line message without graphic logo
     3: Header 6-line message
     5: Header 3-line message and footer 3-line message (default)

Key operation example	Print
ST 11 ⊗ 3 ST TL/NS	*PGM* #11 3
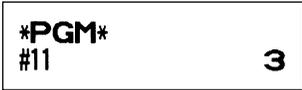
■ Thermal printer density

Procedure

To set 0

$\boxed{ST} \rightarrow 50 \rightarrow \boxed{\otimes} \rightarrow \boxed{\begin{array}{c}\text{*Printer density}\\(00\text{-}99)\end{array}} \rightarrow \boxed{ST} \rightarrow \boxed{TL/NS}$
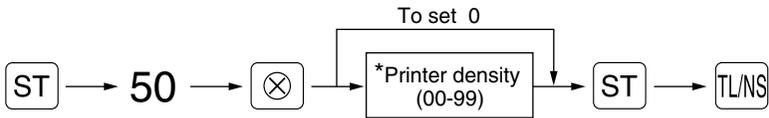
* 50 (100%) is the default setting. To make the print darker, set a larger number, and to make the print lighter, set a smaller number.

Key operation example	Print
ST 50 ⊗ 70 ST TL/NS	*PGM* #50 70

■ 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.*

Procedure

$\boxed{ST} \rightarrow 90 \rightarrow \boxed{\otimes} \rightarrow \boxed{\text{*A}} \rightarrow \boxed{TL/NS}$

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

Key operation example	Print
ST 90 ⊗ 0 TL/NS	*PGM* #90 0

73
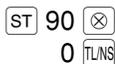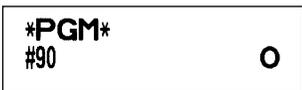
■ Training clerk specification for training mode

For the details of clerk training, please refer to "TRAINING MODE" on page 79.

Procedure

To cancel

$\boxed{\text{ST}} \longrightarrow 86 \longrightarrow \boxed{\otimes} \longrightarrow$ Clerk number (1 to 25) $\longrightarrow \boxed{\text{ST}} \longrightarrow \boxed{\text{TL/NS}}$
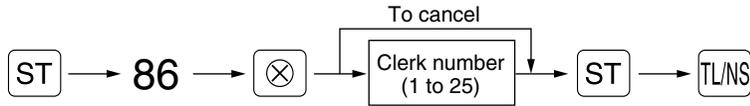
Key operation example	Print
$\boxed{\text{ST}}$ 86 $\boxed{\otimes}$ 20 $\boxed{\text{ST}}$ $\boxed{\text{TL/NS}}$	*PGM* #86 20

■ AUTO key programming — Automatic sequence key

If you program frequently performed transactions or report sequences for the $\boxed{\text{AUTO}}$ key, you can recall those transactions and/or reports simply by pressing the $\boxed{\text{AUTO}}$ key in key operations.

Procedure

Delete

$\boxed{\text{AUTO}} \longrightarrow$ Transaction (key entry) $\longrightarrow \boxed{\text{AUTO}} \longrightarrow \boxed{\text{TL/NS}}$

max. 25 times
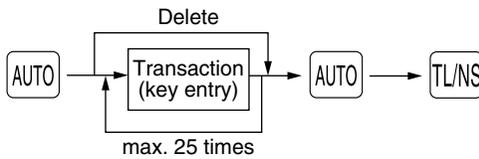
Programming for $\boxed{\text{AUTO}}$; entering a PLU 2 item and a dept. 6 item (unit price: 1.00)

Key operation example	Print

AUTO setting $\longrightarrow$ $\boxed{2}$ 100 $\boxed{6}$ $\boxed{\text{AUTO}}$ $\boxed{\text{TL/NS}}$	*PGM*
	 #01
	         L1 P0002
	                      1
	                      0
	                      0
	         L1 D06

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

4 **EURO Programming**

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

■ EURO system settings

Procedure

To set 0 for all items

$$\boxed{ST} \longrightarrow 8 \longrightarrow \boxed{\otimes} \longrightarrow \boxed{*ABCD} \longrightarrow \boxed{ST} \longrightarrow \boxed{TL/NS}$$
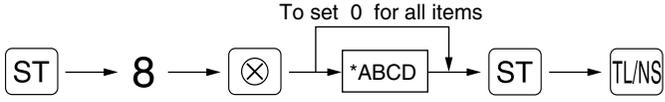
* Item:		Selection:	Entry:
A	Printing exchange total amount and change amount on receipt or journal	No*	0
		Yes	1
B	Always enter 0.		0
C	Cheque and credit operation when tendering in foreign currency	No*	0
		Yes	1
D	Exchange calculation method	Multiplication*	0
		Division	1

Printing exchange total amount and change amount on receipt/journal
 • Total and change amounts in exchange currency are printed respectively below each of the total and exchange amounts in domestic currency.

Exchange calculation method
 • "Division" or "Multiplication" can be selected for the conversion method from domestic currency to exchange currency, and the calculation is performed as follows:
 In case that "Division" is selected:
 Domestic currency amount ÷ Exchange rate = Exchange amount
 In case that "Multiplication" is selected
 Domestic currency amount × Exchange rate = Exchange amount

Key operation example	**Print**
[ST] 8 [⊗] 1000 [ST] [TL/NS]	*PGM* #8　　　1000

■ Automatic EURO modification operation settings

Procedure

To set 00

$$\boxed{ST} \longrightarrow 12 \longrightarrow \boxed{\otimes} \longrightarrow \boxed{*AB} \longrightarrow \boxed{ST} \longrightarrow \boxed{TL/NS}$$
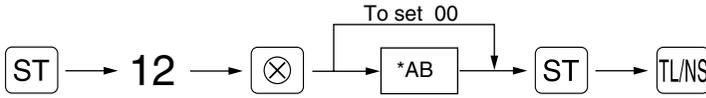
* Item:		Selection:	Entry:
A	Converting the preset unit price of Dept./PLU in the automatic modification operation for EURO (job #800 in the X2/Z2 mode)	Yes*	0
		No	1
B	Automatic modification operation for EURO (job #800 in the X2/Z2 mode) at the preset date	Compulsory*	0
		Non-compulsory	1

Key operation example	**Print**
[ST] 12 [⊗] 01 [ST] [TL/NS]	*PGM* #12　　　01
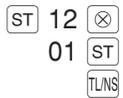
Note *If you have already made the Job #800 operation with the substitution of 3 for "A" in the X2/Z2 mode, this programming is disabled.*

75

■ Date setting for EURO modification operation

To set all zeros

$\boxed{\text{ST}} \longrightarrow 13 \longrightarrow \boxed{\otimes} \longrightarrow$ Date (Day-Month-Year) (seven or eight digits) $\longrightarrow \boxed{\text{ST}} \longrightarrow \boxed{\text{TL/NS}}$
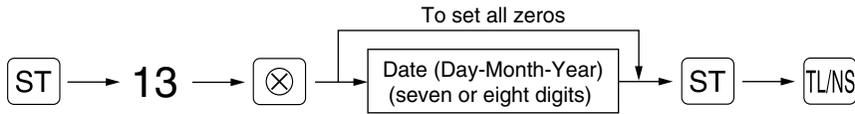
Key operation example

$\boxed{\text{ST}}$ 13 $\boxed{\otimes}$
01072009 $\boxed{\text{ST}}$
$\boxed{\text{TL/NS}}$

Print

```
*PGM*
#13            01/07/2009
```

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

$\boxed{\text{ST}} \longrightarrow 14 \longrightarrow \boxed{\otimes} \longrightarrow$ Time (Hour) (00-23) $\longrightarrow \boxed{\text{ST}} \longrightarrow \boxed{\text{TL/NS}}$
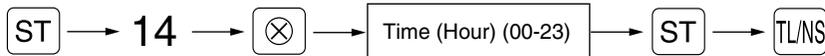
Key operation example

$\boxed{\text{ST}}$ 14 $\boxed{\otimes}$
10 $\boxed{\text{ST}}$
$\boxed{\text{TL/NS}}$

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.

5 Reading Stored Programs

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

■ Key sequence for reading stored program

Report name	Key sequence
Programming report 1	$\boxed{\text{TL/NS}}$
Programming report 2	2 $\longrightarrow \boxed{\text{TL/NS}}$
Auto key programming report	1 $\longrightarrow \boxed{\text{TL/NS}}$
Printer density programming report	3 $\longrightarrow \boxed{\text{TL/NS}}$
Department programming report	4 $\longrightarrow \boxed{\text{TL/NS}}$
PLU programming report	Start PLU code $\longrightarrow \boxed{\otimes} \longrightarrow$ End PLU code $\longrightarrow \boxed{\text{PLU/SUB}}$

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

■ Sample printouts

1 Programming report 1

```
*PGM*                           ──── Mode
F01 (-)              007        ──── Function no.& its text
                    -3.00       ──── Function parametrs
F02 %                000        ──── Discount amt. w/sign
L 90.00%           -15.00%      ──── Function parametrs
F04 DIFFER                      ──── Percent rate with sign
F05 TAX1 ST                     ──── Percent limit
F06 TAX2 ST
F07 TAX3 ST
F08 TAX4 ST
F09 VAT 1
F10 VAT 2
F11 VAT 3
F12 VAT 4
F13 NET1
F14 VAT SFT
F15 TAX DELE
F16 NET2
F17 REFUND
F18 ∽
F19 ∽ MODE
F20 MGR ∽
F21 SBTL ∽
F22 BILL CNT
F23 NO SALE
F24 ***PBAL
F25 ***NBAL
F26 GUEST
F27 ORDER TL
F28 PAID TL
F29 AVE.
F30 O-P
F31 ***RA              9        ┐
F32 ***PO              9        ┘──── Entry digit limit
F33 CASH             018        ──── Function parameters (A-C)
F34 CHEQUE           007
F35 CHECK2           008
F36 CARD1            008
F37 CREDIT2          008
F38 EX              002
 US $            0.939938       ──── Foreign currency
F39 EXCH2                            symbol/Rate
```

```
F77  COPY
F78  BILL
F79  EJ
F80  EJ END
      SHARP
   PRESENTS THE
   BEST ECR              ┐
     SHARP               │──── Logo Message
      IS                 │
    THE BEST             ┘
#5      00000100    ──── Function selection for
#6      11000111        miscellaneous keys (A-H)
#7      00000000    ──── Print format (A-H)
#8         1000     ──── Receipt print format(A-H)
#10        0060     ──── EURO system settings (A-D)
#11           3     ──── Power save mode(A-D)
#12          01     ──── Logo message print format
#13   01/07/2009    ──── Automatic EURO modification
#14       10:00         operation settings (AB)
#15     00011010    ──── Date setting for EURO
#35         007         modification operation
T1       16.0000%   ──── Time setting for EURO
          0.00          modification operation
T2        7.0000%   ──── PLU level shift and
          0.00          GLU function parameters
T3       ------     ──── *Job code #35 is fixed
T4       ------         settings, for which you
C#01    DAVID           cannot change the settings.
C#02    CLERK 02    ──── Tax rate
                    ──── Min. taxable amount
                    ──── Clerk name/code
C#24    CLERK 24
C#25    CLERK 25
```

77

2 Programming report 2

```
*PGM*
#61   00100112        ── Job code
#62   01000000
#63   01000001        ── A to H from the left
#64   00000000           * Job code #71, 72, 76 and
#65   10000000             77 are fixed settings, for
#66   10011100             which you cannot change
#67   00000010             the settings.
#68   00100011
#69   00001000
#70   10000000
#71
GT2   €00000000497.74
#72
GT3   -0000000071.24
#76          Z1  0000
#77          Z2  0000
#85               €    ── Domestic currency symbol
#86              20    ── Training clerk specification
#87        TRAINING    ── Training mode text
#88               0    ── Language selection
#90               1    ── EJ memory type
```

3 Auto key programming report

```
*PGM*
#01
      L1        P0002
                    1
                    0
                    0
      L1        D06
```

4 Printer density programming report

```
*PGM*
#50               70   ── Entered value
                       ── Printer density
    10 : 0123456789AB
    20 : 0123456789AB
    30 : 0123456789AB
    40 : 0123456789AB
    50 : 0123456789AB   ── Printing density
    60 : 0123456789AB      example
    70 : 0123456789AB
    80 : 0123456789AB
    90 : 0123456789AB
```

5 Department programming report

```
*PGM*
D01   T1     083    ── Dept. function
FRUIT      10.00    ── Dept. unit price w/sign
D02   T1     183
DEPT.02   -13.10    ── Minus department
D03   T1     083
DEPT.03     1.50    ── Tax status

DEPT.97      0.00
D98   T1     081
DEPT.98      0.00
D99   T1     081
DEPT.99      0.00
```

Dept. code ── D01
Dept. text ── FRUIT

6 PLU programming report

```
*PGM*
              0001-0015   ── Range
P0001(03)            0    ── Mode parameter
MELON             1.25    ── Unit price
P0002(01)            1
PLU.0002          2.15
P0003(32)            1
PLU.0003         -0.15    ── Associated dept. code

PLU.0014          1.00
P0015(01)            1
PLU.0015          1.50
```

PLU code ── P0001
PLU text ── MELON

78

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 74.
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	**Print**

A clerk set in training ⟶ 20 `CLK#`
1000 `5`
3 `⊗`
`3`
`TL/NS`
	22/05/2007 123456#000440
	10:24 20 CLERK 20
	
	✱✱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, BAL, reset count, and consecutive number.

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

X1 and Z1 reports: Daily sales reports
X2 and Z2 reports: Periodic (monthly) consolidation reports
When you take an X or Z report, turn the mode switch to the appropriate position referring to the column of "Mode switch position" shown on the table below, and use the following corresponding key sequence.

Item	Mode switch position			Key operation
	OPX/Z	X1/Z1	X2/Z2	
Flash report: (Only display) To clear the display, press the CL key or turn the mode switch to another position.	X	–	–	Dept. code ⟶ DEPT# : Department sales total [For dept. 1 to 6: Dept. key (1 to 6)] ⊗ key: Amount of cash in drawer TL/NS key: Sales total
Full sales report	–	X1, Z1	X2, Z2	Reading: TL/NS Resetting: • ⟶ TL/NS
PLU report by designated range	–	X1, Z1	–	Reading: All PLUs ⟶ Start PLU code ⟶ ⊗ ⟶ End PLU code ⟶ PLU/SUB Resetting: All PLUs ⟶ Start PLU code ⟶ ⊗ ⟶ End PLU code ⟶ • ⟶ PLU/SUB
Individual clerk report	X, Z	–	–	Reading: CLK# Resetting: • ⟶ CLK# (The report of the current clerk)
Full clerk report	–	X1, Z1	–	Reading: CLK# Resetting: • ⟶ CLK#
Hourly report	–	X1, Z1	–	Reading: # Resetting: • ⟶ #
Open GLU report	–	X1, Z1	–	Reading: GLU Resetting: • ⟶ GLU
Open GLU report by clerk	–	X1, Z1	–	Reading: CR1 Resetting: • ⟶ CR1 (The report of the current clerk)
Balance report	–	X1	–	Reading: RA

Note	• When both sales quantities and sales amounts are zero, printing is skipped. If you do not want to skip, change the programming. (Refer to "Print format" of "Various Function Selection Programming 1".)

• "X" represents read symbol and "Z" represents reset symbol in the reports.
• To stop reading and resetting the PLU sales report, turn the mode switch to the MGR position. The data will not be erased when you reset.
• The drawer does not open when you take X/Z reports.
The drawer can be opened by pressing the [TL/NS] key to remove the till after closing your business.
• When printing is performed continuously, the printing may be intermitted several seconds. After the intermission, the printing will be restarted.

2 Daily Sales Totals

For the sample reports of the full sales and periodic consolidation report, refer to "FULL SALES REPORT (Z REPORT)" on page 32.

■ PLU report by designated range

• Sample report

```
*X1*                    ———— Mode title*
*   PLU   *             ———— Report title
            0001-0015   ———— Range
P0001        19 Q
PLU.0001        *29.83  } Sales q'ty and total
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 } Range sum
```

PLU code —— P0001
Item label —— PLU.0001

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

■ Individual clerk report

• Sample report

```
*0PX*                   ——— Mode title*
                        ——— Report title
* CLERK *               ——— Clerk code
O1#      CLERK 01       ——— Clerk name
ORDER TL    *805.44     ——— Order total
PAID TL     *716.44     ——— Paid total
AVE.         *27.56     ——— Average
O-P          *89.00     ——— Order total–Paid total
***PBAL      10 Q       ——— PBAL counter
***NBAL       6 Q       ——— NBAL counter
GUEST        26 Q       ——— Customer counter
------------------------
∽             5 Q
             *52.70
∽ MODE        1 Q
             *14.00
MGR ∽         2 Q
             *14.00
SBTL ∽        1 Q
             *60.90
------------------------
EXCH1         1 Q
         US $100.00
DOM.CUR1    *106.38
EXCH2         1 Q
             100.00
DOM.CUR2     *78.42
****CID     *135.19
*CH ID      *135.00
CA/CH ID    *270.19
------------------------
```

■ Full clerk report

The printout occurs in the same format as in the sample report of individual clerk, but all clerk's sales data and total of all clerks are printed in the order of clerk number (from #1 to #25).

81

■ 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.

■ Open GLU report

• Sample report

```
*X1*                    ———————— Mode title*
*   GLU   *             ———————— Report title
02#               O1    ———————— Clerk code
***PBAL         *7.00   ———————— Previous balance
04#               O1    ———————— GLU code
***PBAL         *9.00
05#               O1
***PBAL         *33.00
10#               O2
***PBAL         *15.00
12#               O2
***PBAL         *15.00
------------------------
***TOTAL
***PBAL         *79.00
```

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

■ Open GLU report by clerk

• Sample report

```
*X1*                    ———————— Mode title*
*   GLU   *             ———————— Report title
O1#       CLERK 01      ———————— Clerk code/name
02#
***PBAL         *7.00
04#
***PBAL         *9.00
05#
***PBAL         *33.00
------------------------
***TOTAL
***PBAL         *49.00
```

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

■ Balance report

• Sample report

```
*X1*                    ———————— Mode title
*  BALANCE  *           ———————— Report title
OLD BAL.        *0.00   ———————— Total balance on previous day
ORDER TL      *283.50   ———————— Order total
PAID TL       *204.50   ———————— Paid total
BALANCE        *79.00   ———————— Balance
```

EJ REPORT READING AND RESETTING

The cash register provides an electronic journal (EJ) function. This function is intended to record the journal data in a memory instead of journal paper, and print the data as an EJ report. The register records the journal data in REG, PGM, ☒ , X1/Z1 and X2/Z2 modes. By default, a maximum of 9000 lines are stored in the memory. For details of EJ programming, please refer to "Other programming (Job code 68)" on page 70 and "EJ memory type" on page 73.

■ 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 ⌈RCPT⌋ key during the transaction.

| **Note** | *This function is valid when the printing style is programmed to receipt, and the receipt ON/OFF function is set to OFF. For changing the setting, refer to "Additional Information for BASIC SALES ENTRY".* |

• Sample print

```
*  EJ      *              ──── EJ report title
22/05/2007 123456#000400
13:02    01 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:

700 → ⊗ → TL/NS

To reset all of the data:

700 → • → ⊗ → TL/NS

To read the last 10 records:

710 → ⊗ → TL/NS

| **Note** |

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

• Sample EJ report

```
*OPX*
*  EJ      *
22/05/2007 123456#000429
10:12    01 DAVID
***RA          *2.50
22/05/2007 123456#000430
10:12    01 DAVID
*OPX*
*  EJ      *
22/05/2007 123456#000431
10:13    01 DAVID
NO SALE
22/05/2007 123456#000432
ITEMS       1Q
CASH  *12.50
22/05/2007 123456#000435
10:14    01 DAVID
DEPT.03        *31.50
PLU.0002        *6.00
ITEMS       2Q
CASH  *37.50
22/05/2007 123456#000436
10:14    01 DAVID
***RA         *12.50
22/05/2007 123456#000437
10:14    01 DAVID
DEPT.02         *6.10
PLU.0001        *3.50
ITEMS       2Q
***TOTAL   *9.60
CASH          *10.00
CHANGE         *0.40
22/05/2007 123456#000438
10:15    01 DAVID
PLU.0005        *3.00
ITEMS       1Q
CASH   *3.00
*  EJ END  *
```

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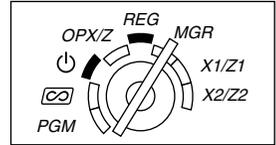
Example In this example, the register has been programmed not to allow discounts entries over 1.00.

Key operation example

REG mode   1500 3
entries   250 ⊝ ...Error
              CL

Turn the mode switch
to the MGR position.
              250 ⊝

Return the mode switch
to the REG position.
              TL/NS

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.)
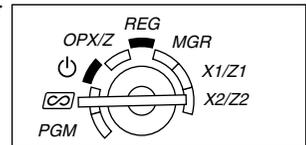
Incorrect receipt

```
DEPT.04        *10.00
DEPT.03         *1.50

ITEMS      2Q
CASH  *11.50
```

➡

Cancellation receipt

```
    *∞ MODE    *
DEPT.04        *10.00
DEPT.03         *1.50

ITEMS      2Q
CASH  *11.50
```

EURO MIGRATION FUNCTION

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

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

How currencies are treated in your register

<table>
<tr><td colspan="2"></td><th>Period 1</th><th>Period 2</th><th>Period 3</th></tr>
<tr><td colspan="2"></td><td>After the introduction of EURO, and before EURO banknotes and coins begin to circulate</td><td>After EURO banknotes and coins begin to circulate, and before national currency is withdrawn from circulation. (Co-existence of EURO and national currency)</td><td>After the national currency is withdrawn from circulation</td></tr>
<tr><td rowspan="3">Currency</td><td>EURO</td><td>Exchange key (Preset rate entry)</td><td>Domestic currency</td><td>Domestic currency</td></tr>
<tr><td>National currency</td><td>Domestic currency</td><td>Exchange key (Preset rate entry)</td><td></td></tr>
<tr><td>Foreign currency</td><td>Exchange key (Manual rate entry)</td><td>Exchange key (Manual rate entry)</td><td>Exchange key</td></tr>
</table>

Automatic EURO modification operation

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

$$800 \longrightarrow \boxed{\cdot} \longrightarrow \boxed{\otimes} \longrightarrow \boxed{*A} \longrightarrow \boxed{TL/NS}$$
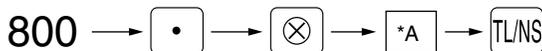
*A=1: Applicable for period 1
*A=2: Applicable for period 2
*A=3: Applicable for period 3

The details of the register system modification are as shown below:

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

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

IMPORTANT

• Conversion of the preset unit prices of departments and PLUs
Note that the conversion rate of the preset rate of the [EX] key is applied for the conversion, and the method is set to "division". When the conversion is performed, the message "PRICE CONVERTED" will be printed on the #800 report.
• After the execution of the procedure with "A=1", treat EURO as foreign currency using the exchange key ([EX]) with the preset rate entry. Set the EURO conversion rate as the currency exchange rate for the exchange key.
• After the execution of the procedure with "A=2", treat EURO as domestic currency, and national currency as foreign currency using the exchange key ([EX]) with the preset rate entry. Set the EURO conversion rate as the currency exchange rate for the exchange key.
• As for the percent rate for [%] and [⊖], 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.

$$800 \longrightarrow \boxed{\otimes} \longrightarrow \boxed{\text{TL/NS}}$$

```
*X2*
#800              2
```
EURO status

■ 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 "Programming for EX" on page 56.

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 "Programming for EX" on page 56.

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 75.

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.

```
------------------------
EURO START
01/07/2009 10:00          Preset data and time
DAYS TO EURO   <10>       Remaining days

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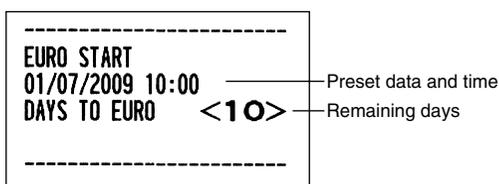
When the above-mentioned preset date and time has come, and also when you start an entry in the REG/MGR mode, the error message "EURO CHANGE" is displayed. You cannot make any operation in the REG/MGR mode until you execute the automatic modification operation for EURO (job #800) in the X2/Z2 mode.
You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

OPERATOR MAINTENANCE

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.)

```
F14 VAT SFT
F15 TAX DELE
F16 NET2
= = = = = = = = = = = = =
F16 NET2
F17 REFUND
```
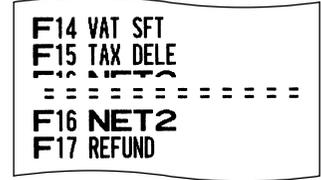
2 In Case of Printer Error

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

3 Cautions in Handling the Printer and Recording Paper

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

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

4 Replacing the Batteries

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

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

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

While the no battery message is being displayed, do not turn the mode switch to any positions. Follow the battery replacement procedure below without changing the mode switch position. Otherwise, if the mode switch passes or is set to the ⏻ , 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:
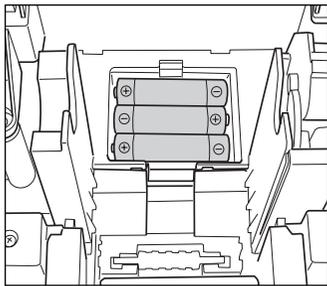
1. **Make sure that the cash register is plugged in.**
2. Remove the printer cover.
3. Open the battery compartment cover next to the paper roll cradle and remove the old batteries.
4. Install three new alkaline batteries LR6 ("AA" size) in the battery compartment. Be sure the positive and negative poles of each battery are facing in the proper direction. When they are installed correctly, the "LOW BATTERY" or "NO BATTERY" will disappear.
5. Close the battery compartment cover.
6. Replace the printer cover.

5 Replacing the Paper Roll

Be sure to use paper rolls specified by SHARP.
The use of any other paper rolls other than those specified could cause paper jamming, resulting in register malfunction.

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

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

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

(How to set the paper roll)

To the printer   To the printer

Correct   Incorrect
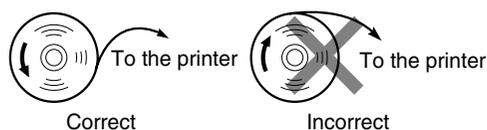
■ Removing the paper roll

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

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

**When not using the take-up spool (using as receipt paper):**
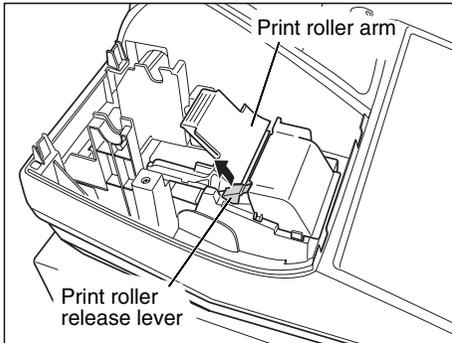
Print roller arm

Print roller release lever

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

| Note | *Do not pull the paper through the printer.* |

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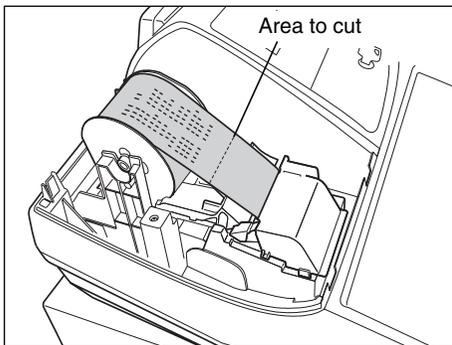
Area to cut

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

| Note | *Do not pull the paper through the printer.* |
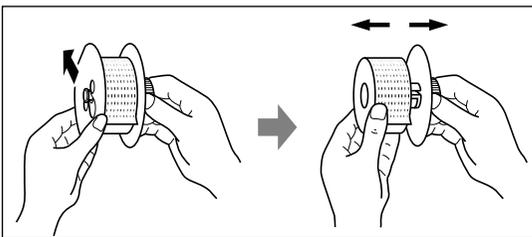
7. Remove the outer side of the take-up spool as shown on the left.
8. Remove the printed journal roll from the take-up spool.

■ Installing the paper roll

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

Installing the receipt paper roll:

Paper positioning guides

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

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

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

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

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

Installing the journal paper roll:

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

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

7. Insert the end of the paper into the slit in the spool. (Press the $\boxed{\uparrow}$ key to feed more paper if required.)

8. Wind the paper two or three turns around the spool shaft.

9. Set the spool on the bearing, and press the $\boxed{\uparrow}$ key to take up excess slack in the paper.

10. Replace the printer cover.

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

6 Removing a Paper Jam

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

1. Remove the printer cover.

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

3. Remove the paper jam. Check for and remove any shreds of paper that may remain in the printer.

4. Reset the paper roll correctly by following the steps in "Installing the paper roll".

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

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

Caution:
• **Never touch the print head with a tool or anything hard as it may damage the head.**
• **The paper cutter is mounted on the printer cover. Be careful not to cut yourself.**
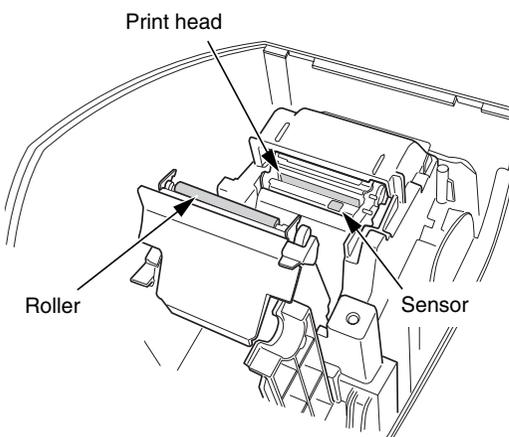
1. Turn the mode switch to the " ϕ " position.

2. Remove the printer cover.

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

4. Remove the paper roll referring to the "Removing the paper roll" section.

5. Clean the print head with a cotton swab or soft rag moistened with ethyl alcohol or isopropyl alcohol. Clean the roller and the sensor in the same manner.

6. Reset the paper roll correctly by following the steps in "Installing the paper roll".

8 Removing the Till and the Drawer

The till in the register is detachable. After closing your business for the day, remove the till from the drawer and keep the drawer open. The 8-denomination coin case is also detachable from the till. To detach the drawer, pull it forward fully with the till removed, and remove it by lifting it up.
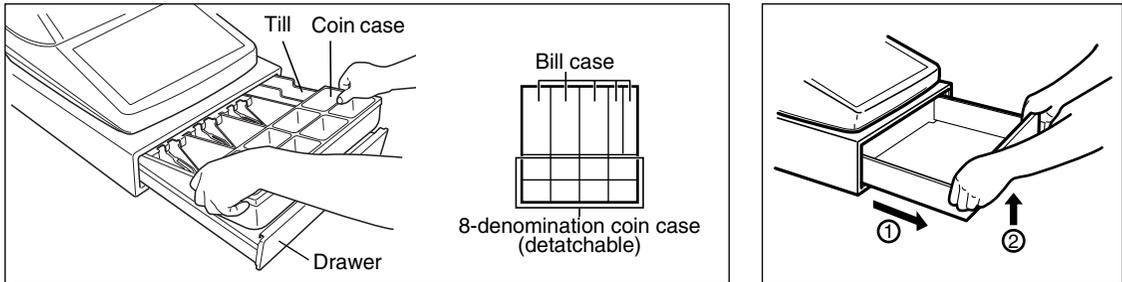
9 Opening the Drawer by Hand
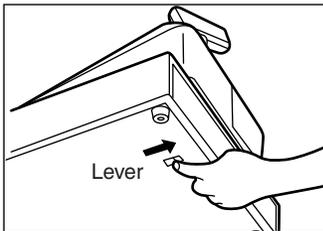
The drawer automatically opens. However, when a power failure occurs or the machine becomes out of order, slide the lever located on the bottom of the machine in the direction of the arrow. (See the diagram at the left.)
The drawer will not open if it is locked with the key.

10 Before Calling for Service

The malfunctions shown in the left-hand column below, labelled "Fault," do not necessarily indicate functional faults of the machine. It is therefore advisable to refer to "Checking" shown in the right-hand column before calling for service.

Fault	Checking
(1) The display shows symbols that do not make sense.	• Has the machine been initialized properly as shown in "PREPARING THE CASH REGISTER" on page 9? (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 "⏻".	• Is power supplied to the electrical outlet? • Is the power cord plug out or loosely connected to the AC outlet?
(3) The display is illuminated, but the whole machine refuses registrations.	• Is a clerk code assigned to the register? • Is the mode switch set properly at the "REG" position?
(4) No receipt is issued.	• Is the paper roll properly installed? • Is there a paper jam? • Is the receipt function in the "OFF" status? • Is the print roller arm securely locked?
(5) No journal paper is taken up.	• Is the take-up spool installed on the bearing properly? • Is there a paper jam?
(6) Printing is unusual.	• Is the print roller arm securely locked? Open the print roller arm, and lock the arm by following the instruction of installation. • Is the paper roll properly installed? • Are the print head/sensor/roller clean?
(7) Continuous printing stops.	• Display shows "→ → → → →". Printing will automatically restart after several seconds.

■ Error message table

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

| Error message	Error status	Action
ENTRY ERROR	Registration error	Make a correct key entry.
MISOPERATION	Misoperation error	Make a correct key entry.
NO RECORD	Undefined code is entered.	Enter a correct code.
MEMORY FULL	Memory is full (in the AUTO key programming).	Program the AUTO key within 25 steps.
SBTL COMPUL.	Compulsory depression of the ST key for direct finalization	Press the ST key and continue the operation.
TEND COMPUL.	Compulsory tendering	Make a tendering operation.
NOT ASSIGNED	No entry of a clerk code	Make a clerk code entry.
OVER LIMIT.	Overflow limitation error	Make a registration within a limit of entry.
INH. OPEN PR	The open price entry is inhibited.	Make a preset price entry.
INH. UNIT PR	The preset price entry is inhibited.	Make an open price entry.
NOT NON-TEND	The direct finalization is inhibited.	Make a tendering operation.
BUFFER FULL	1. Subtotal void is not allowed.	Finalize the transaction, and correct the wrong entries in the 🖾 mode.
	2. GLU item entries are reached to 50 items.	Finalize the transaction.
HEAD UP	Print roller arm is lifted up.	Make sure the print roller arm is surely rocked.
PAPER EMPTY	Receipt or journal paper roll is not installed or empty.	Install a receipt or journal paper.
EURO CHANGE	EURO modification operation must be executed	Execute EURO modification operation (Job code 800).

SPECIFICATIONS

Model:	XE-A213
Dimensions:	355 (W) x 430 (D) x 312 (H) mm
Weight:	11 kg
Power source:	Official (nominal) voltage and frequency
Power consumption:	Stand-by: 11.5W (When the official voltage is 220 to 230 V)
	Stand-by: 11.4W (When the official voltage is 230 to 240 V)
	Operating: 41.4W (When the official voltage is 220 to 230 V)
	Operating: 41.8W (When the official voltage is 230 to 240 V)
Working temperature:	0 °C to 40 °C
Electronics:	LSI (CPU) etc.
Display:	
Operator display:	Dot matrix display (16 positions and 1 line)
Customer display:	7-segment display (7 positions)
Printer:	
Type:	One-station thermal printer
Printing speed:	Approx. 12 lines/second
Printing capacity:	24 digits each for receipt/journal paper
Other functions:	• Graphic logo printing function
	• Logo message function
	• Receipt (ON-OFF) function
	• Compression print for journal
Paper roll:	Width: 57.5 ± 0.5 mm
	Max. diam.: 80 mm
	Quality: High quality (0.06 to 0.08 mm thickness)
Cash drawer:	5 slots for bill and 8 for coin denominations
Accessories:	Manager key 2
	Operator key 2
	Drawer lock key 2
	Paper roll 1
	Take-up spool 1
	Keyboard sheet 1 (mounted on the keyboard)
	Keyboard sheet for text programming 1 (mounted on the keyboard)
	Instruction manual 1 copy
	Reset caution sheet 1 copy
	Battery caution sheet 1 copy
	"Where to Find" sheet 1 copy

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

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users.

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

Environment Protection

The device is supported by a battery. To dispose the battery safely to protect the environment, please note the following points:
- Take the used battery to your local waste depot, dealer or customer service centre for recycling.
- Do not throw the used battery into fire, into water or into the household waste!

Umweltschutz

Das Gerät wird durch eine Batterie gestützt. Um die Batterie sicher und umweltschonend zu entsorgen, beachten Sie bitte folgende Punkte:
- Bringen Sie die leere Batterie zu Ihrer örtlichen Mülldeponie, zum Händler oder zum Kundenservice-Zentrum zur Entsorgung.
- Werfen Sie die leere Batterie niemals ins Feuer, ins Wasser oder in den Hausmüll.

Protection de l'environnement

L'appareil est supporté sur pile. Afin de protéger l'environnement, nous vous recommendons de traiter la pile usagée la façon suivante:
- Apporter la pile usagée à votre centre de traitement des ordures ménagères le plus proche ou, à votre revendeur ou, au service après-vente, pour recyclement.
- Ne jamais jeter la pile usagée dans une source de chaleur, dans l'eau ou dans les vide-ordures.

Miijöskydd

Denna produkt nöddrivs av batteri.
Vid batteribyte skall följande iakttagas:
- Det förbrukade batteriet skall inlämnas till er lokala handlare eller till kommunal miljöstation för återinssamling.
- Kasta ej batteriet i vattnet eller i hushållssoporna. Batteriet får ej heller utsätttas för öppen eld.

Bescherming van het milieu

Deze kassa gebruikt een batterij. Bescherm het milieu en gooi een gebruikte batterij op de juiste manier weg. Let op de volgende punten:
- Breng een lege batterij naar de lokale verzamelplaats voor klein chemisch afval, terug naar de winkel of gooi in een batterijbak.
- Gooi een gebruikte batterij niet in een vuur of water en gooi niet met het gewone huisafval weg.

Geräuschpegel L$_{pA}$: 64,7 dB
Gemessen nach EN ISO 7779:2001

SHARP