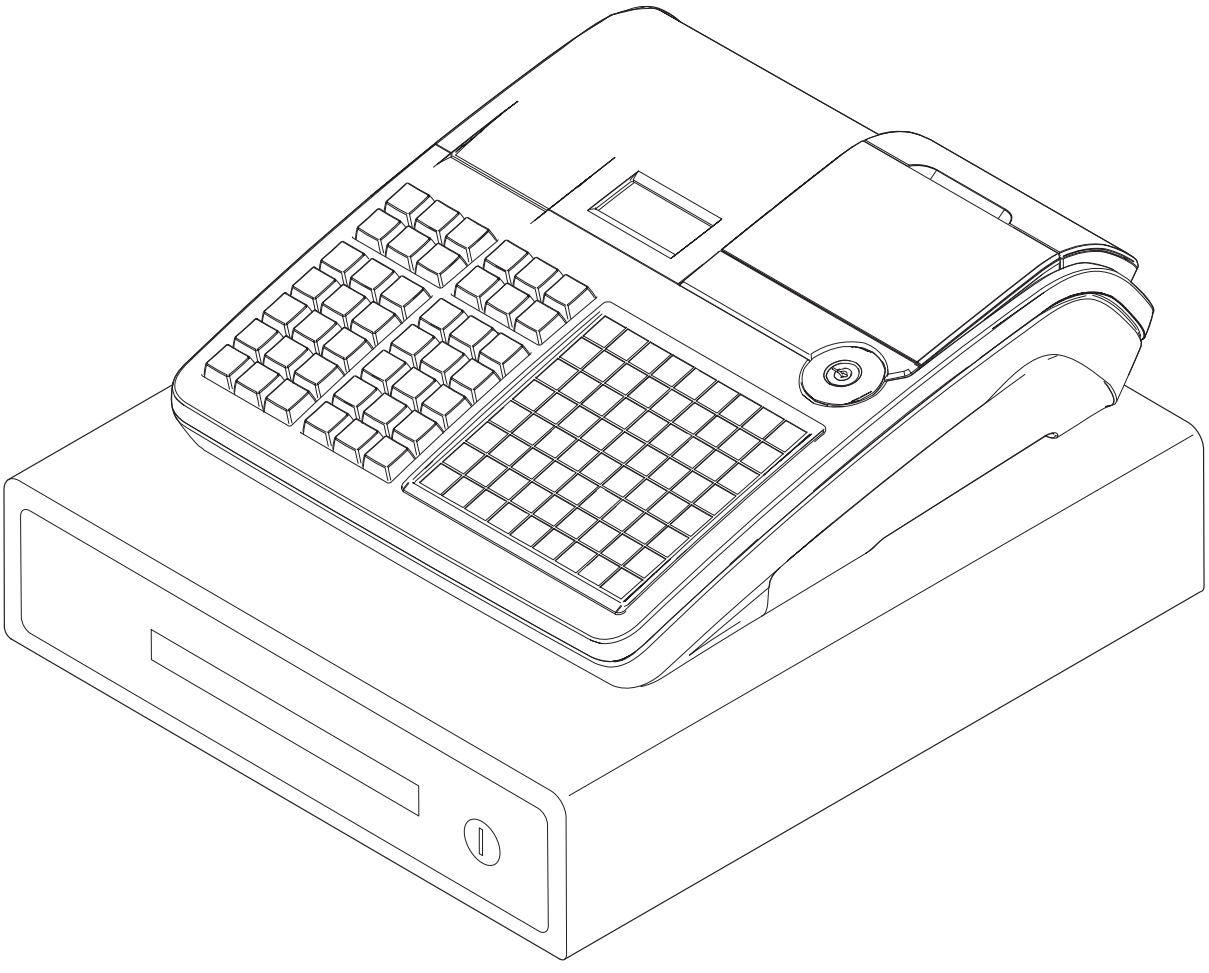
CASIO

User's Manual

SE-C3500

Electronic Cash Register



(M size drawer)

Introduction

Thank you very much for purchasing this CASIO electronic cash register. START-UP is QUICK and EASY!

For the basic settings of your cash register, please see “Quick Start Guide”.

Original Carton/Package

If for any reason, this product is to be returned to the store where purchased, it must be packed in the original carton/package.

Location

Locate the Cash register on a flat, stable surface, away from heaters or areas exposed to direct sunlight, humidity or dust.

Power Supply

Your cash register is designed to operate on standard household current (120 V, 220 V, 230 V, 240 V; 50/60 Hz). Do not overload the outlet by plugging in too many appliances.

Cleaning

Clean the cash register exterior with a soft cloth which has been moistened with a solution of a mild neutral detergent and water, and wrung out. Be sure that the cloth is thoroughly wrung out to avoid damage to the printer. Never use paint thinner, benzene, or other volatile solvents.

The mains plug on this equipment must be used to disconnect mains power. Please ensure that the socket outlet is installed near the equipment and shall be easily accessible.

Trademark

SD and SDHC Logos are trademarks of SD-3C,LLC.

To use the cash register safely E-4
To use the cash register's basic function E-9
Getting started E-10
Getting to know your cash register E-15
How to read the printouts E-23
How to use your cash register E-24
Before opening your store E-25
Registering items in departments E-26
Basic setups and registrations E-30
Other registrations E-38
Daily sales reports E-48
Advanced programmings and registrations E-51
Advanced registrations E-52
Character settings E-72
Advanced programmings E-81
Programming functions of departments and PLUs in a lump E-94
Programming functions of departments and PLUs individually E-97
Printing programmed data E-113
Printing various sales reports E-119
Using an SD card E-127
Before you consider it as a problem E-130
Specifications E-134

To use the cash register safely

- Congratulations upon your selection of this CASIO product. Be sure to read the following safety precautions before using it for the first time. After reading this guide, keep it close at hand for easy reference.
- Please pay due attention to the following symbols to help you use the product safely and properly and to avoid any personal injury or damage to the product.

⚠Danger	If this symbol is ignored and the product consequently misused, it can result in serious personal injury and/or death.
⚠Warning	If this symbol is ignored and the product consequently misused, it may result in serious personal injury and/or death.
⚠Caution	If this symbol is ignored and the product consequently misused, it may result in personal injury and/or property damage.

- The figures in this manual have the following meanings.

	This symbol means be careful = a warning. The example at left is a warning about an electrical shock.
	This symbol indicates something you must not do = prohibited action. The example at left means never disassemble the product.
	This symbol indicates something you must do = an instruction. The example at left indicates you should unplug the product from the outlet. Please note that instructions that are difficult to express by a figure are indicated by ❗.

⚠Danger

If liquid that leaked from a battery gets in your eye, on your skin or clothes, deal with it immediately as follows.

1. Immediately rinse it off with lots of water.
2. Immediately get medical treatment.
   Failing to act may result in a rash or loss of sight.

⚠Warning

Handling the register

- Should the register malfunction, start to emit smoke or a strange odor, or otherwise behave abnormally, immediately shut down the power and unplug the AC plug from the power outlet. Continued use creates the danger of fire and electric shock. Contact CASIO service representative.

- Do not place containers of liquids near the register and do not allow any foreign matter to get into it. Should water or other foreign matter get into the register, immediately shut down the power and unplug the AC plug from the power outlet. Continued use creates the danger of short circuit, fire and electric shock. Contact CASIO service representative.
- Should you drop the register and damage it, immediately shut down the power and unplug the AC plug from the power outlet. Continued use creates the danger of short circuit, fire and electric shock.
- Attempting to repair the register yourself is extremely dangerous. Contact CASIO service representative.
- Never try to take the register apart or modify it in any way. High-voltage components inside the register create the danger of fire and electric shock. Contact CASIO service representative for all repair and maintenance.

⚠Warning

Power plug and AC outlet

- Use only a proper AC electric outlet. Use of an outlet with a different voltage from the rating creates the danger of malfunction, fire, and electric shock. Overloading an electric outlet creates the danger of overheating and fire.
- Make sure the power plug is inserted as far as it will go. Loose plugs create the danger of electric shock, overheating, and fire.
- Do not use the register if the plug is damaged. Never connect to a power outlet that is loose.
- Use a dry cloth to periodically wipe off any dust built up on the prongs of the plug. Humidity can cause poor insulation and create the danger of electric shock and fire if dust stays on the prongs.
- Do not allow the power cord or plug to become damaged, and never try to modify them in any way. Continued use of a damaged power cord can cause deterioration of the insulation, exposure of internal wiring, and short circuit, which creates the danger of electric shock and fire.
- Contact CASIO service representative whenever the power cord or plug requires repair or maintenance.

⚠Caution

- Do not place the register on an unstable or uneven surface. Doing so can cause the register - especially when the drawer is open - to fall, creating the danger of malfunction, fire, and electric shock.

Do not place the register in the following areas.

- Areas where the register will be subject to large amounts of humidity or dust, or directly exposed to hot or cold air.
- Areas exposed to direct sunlight, in a close motor vehicle, or any other area subject to very high temperatures.

The above conditions can cause malfunction, which creates the danger of fire.

- Do not overlay bend the power cord, do not allow it to be caught between desks or other furniture, and never place heavy objects on top of the power cord. Doing so can cause short circuit or breaking of the power cord, creating the danger of fire and electric shock.

- Be sure to grasp the plug when unplugging the power cord from the wall outlet. Pulling on the cord can damage it, break the wiring, or cause short, creating the danger of fire and electric shock.
- Never touch the plug while your hands are wet. Doing so creates the danger of electric shock. Pulling on the cord can damage it, break the wiring, or cause short, creating the danger of fire and electric shock.
- At least once a year, unplug the power plug and use a dry cloth or vacuum cleaner to clear dust from the area around the prongs of the power plug.

Never use detergent to clean the power cord, especially power plug.

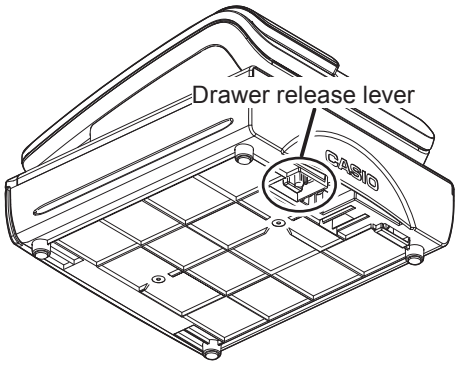
- Keep small parts out of the reach of small children to make sure it is not swallowed accidentally.

⚠Caution
Only use the specified batteries. • Do not disassemble, modify or short-circuit them. • Do not put them in fire or water or heat them. • Do not mix new and old batteries or different types of batteries. • Orient the terminals +- correctly. • Remove the batteries if the system will not be used for a long time. • After batteries are spent, dispose of them as per local regulations. • Do not try to recharge dry cell batteries.
Disposing of batteries: • Make sure that you dispose of used batteries in accordance with the rules and regulations in your local area.

■ When the cash drawer does not open!

In case of power failure or the machine is in malfunction, the cash drawer does not open automatically. Even in these cases, you can open the cash drawer by pulling drawer release lever (see below).

Important: The drawer will not open, if it is locked with a drawer lock key.



CE

Manufacturer:CASIO COMPUTER CO., LTD.
6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo 151-8543, Japan
Responsible within the European Union:CASIO EUROPE GmbH
CASIO-Platz 1, 22848 Norderstedt, Germany

Please keep all information for future reference.
The declaration of conformity may be consulted at http://world.casio.com/

This mark applies in EU countries only.

This product is also designed for IT power distribution system with phase-to-phase voltage 230 V.

Laite on liitettävä suojamaadoituskostkettimilla vaurstettuun pistorasiaan
Apparatet må tilkoples jordet stikkontakt
Apparaten skall anslutas till jordat nätuttag.

The main plug on this equipment must be used to disconnect mains power.
Please ensure that the socket outlet is installed near the equipment and shall be easily accessible.

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.

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A.
(Not applicable to other areas)

WARNING: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To use the cash register's basic function

Getting started E-10
- Loading memory protection batteries E-10
- Installing paper roll E-11
- Setting date, time, and tax table E-13
- To set Australian GST E-14

Getting to know your cash register E-15
- General guide E-15
- To adjust the main display E-16
- To set the customer display E-16
- To set the menu sheet E-17
- Display E-18
- Keyboard E-19

How to read the printouts E-23

How to use your cash register E-24

Before opening your store E-25
- Checking the time and date E-25
- Preparing bills and coins for change E-25

Registering items in departments E-26

Basic setups and registrations E-30
- To program basic settings E-30
- Programming departments E-32
- Registering departments' preset data E-33
- Programming PLUs E-34
- Registering PLUs' preset data E-35

Other registrations E-38
- Discount E-38
- Reduction E-39
- Registering various payment methods E-40
- Registering returned goods E-42
- Registrations without transactions E-44
- Corrections E-45

Daily sales reports E-48
- Print out of daily sales report E-49

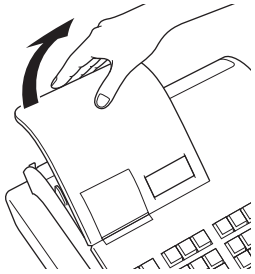
Getting started

This chapter shows how to setup the cash register and get it ready to operate.

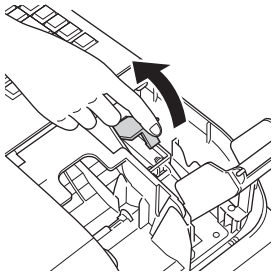
Loading memory protection batteries

Important: These batteries protect information stored in your cash register's memory when there is a power failure or when you unplug the cash register. Be sure to install these batteries first.

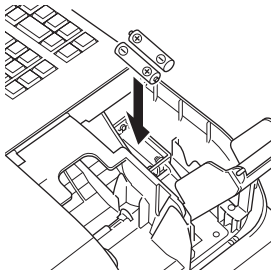
1 Remove the printer cover.



2 Remove the battery compartment cover.



3 Note the (+) and (–) markings in the battery compartment. Load a set of two new "AA" type manganese batteries so that their plus (+) and minus (–) ends are facing as indicated by the markings.



4 Replace the battery compartment cover and the printer cover.

Warning

- No battery is included in the accessories.
- Never try to recharge the batteries.
- Do not expose batteries to direct heat, let them become shorted or try to take them apart.
- Keep batteries out of the reach of small children. If your child should swallow a battery, consult a physician immediately.
- There is a risk of explosion if the batteries are replaced with improper type.
- Dispose of used batteries according to the instructions.

Installing paper roll

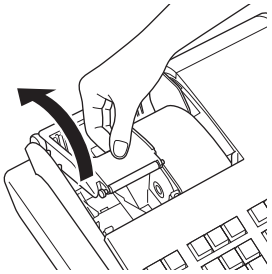
Caution (in handling the thermal paper)

- Never touch the printer head and the platen.
- Unpack the thermal paper just before your use.
- Avoid heat and direct sunlight.
- Avoid dusty and humid places for storage.
- Do not scratch the paper.
- Do not keep the printed paper under the following circumstances:
- High humidity and temperature/direct sunlight/contact with glue, thinner or a rubber eraser.

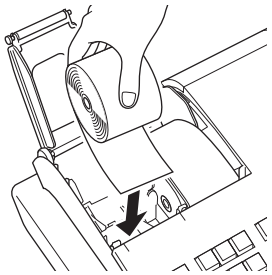
■ To install receipt paper

1 Remove the printer cover.

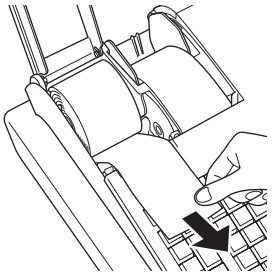
2 Open the platen arm of the receipt printer (on the left) by lifting it up.



3 Ensuring the paper is being fed from the bottom of the roll, lower the roll into the space behind the printer.

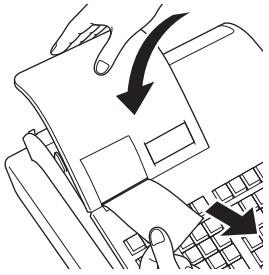


4 Put the leading end of the paper over the printer.



5 Close the platen arm slowly until it locks securely.

6 Replace the printer cover, passing the leading end of the paper through the cutter slot. Tear off the excess paper.

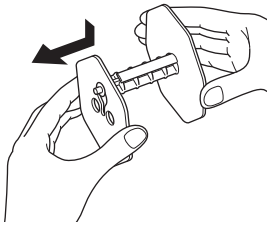


■ To install journal paper

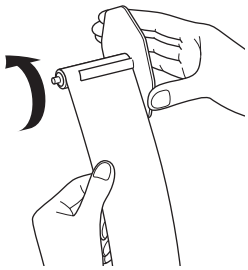
1 By the same procedure of setting receipt paper, set journal paper on the journal printer.

2 Using JOURNAL FEED key, feed the paper about 20 cm.

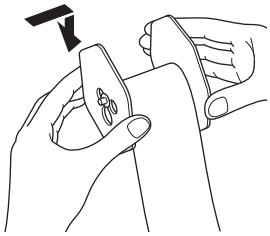
3 Remove the paper guide of the take-up reel.



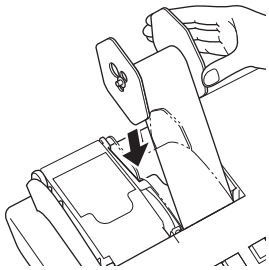
4 Slide the leading end of the paper into the groove on the spindle of the take-up reel and wind it onto the reel two or three turns.



5 Replace the paper guide of the take-up reel.



6 Place the take-up reel into place behind the printer, above the roll paper.



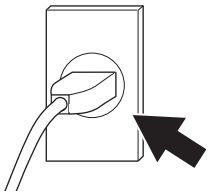
7 Press the JOURNAL FEED key to take up any slack in the paper.

8 Replace the printer cover.

Setting date, time, and tax table

1 Plug in the power socket into a wall outlet.

Be sure to check the rating plate on the side of the cash register to make sure that its voltage matches that of the power supply in your area.



2 As soon as the power socket is plugged in, the display shows the language selection display. Choose language and country by using [↑] or [↓] keys then press [CA/AMT/TEND] key.

```
PLEASE SELECT LANGUAGE.
<CA/AMT TEND>          :ENTER


English(Australia)
English(Czech)
English(Malaysia)
English(New Zealand)
English(Singapore)
```

3 Display changes to date and time setting display. Moving the input area (reversed area) by [↑] or [↓] keys, input date, month, year and time from ten key pad. Input the time by 24 - hour system. For example, 1356 for 1:56 pm. After then press [CA/AMT/TEND] key. For Australian model, the setting is completed by this step To set Australian GST, please see the next section.

```
PLEASE INPUT DATE & TIME.
<CA/AMT TEND>          :ENTER
<SUBTOTAL>             :RETURN

DATE                   [DD]
MONTH                  [MM]
YEAR                   [YYYY]
TIME(24-hour)          [HHMM]
```

4 Display then changes to tax table setting screen. Using ten key pad, input tax rates. You can set four kinds of tax rates.

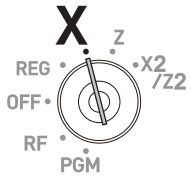
```
PLEASE INPUT TAX RATE.
<CA/AMT TEND>          :ENTER
<SUBTOTAL>             :RETURN

RATE
TABLE1                 [3.000]
TABLE2                 [5.250]
TABLE3                 [8.500]
TABLE4                 [15.000]
```

5 Press [CA/AMT/TEND] key.

Now your cash register is ready to operate basic registrations.

To set Australian GST

The following operation programs the cash register Australian GST (the Goods and Service Tax) setting. It is not necessary to program this setting for other countries than Australia.



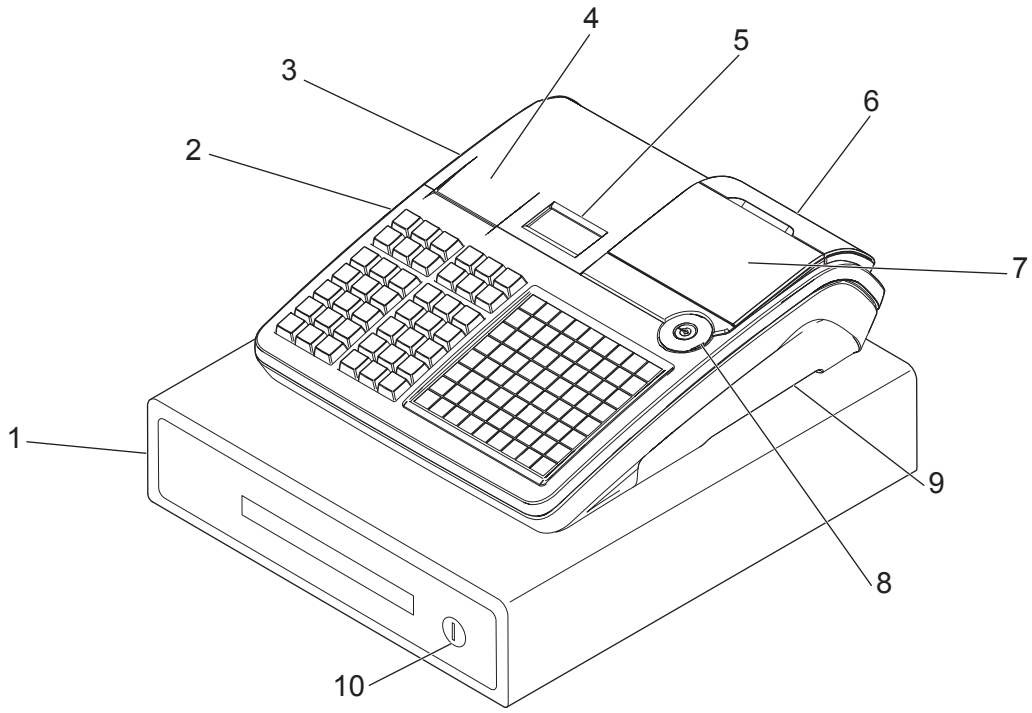
Step	Operation
1 Turn the Mode switch to X position.	
2 Enter the setting code "01012001" and press [SUB TOTAL] key. (Pressing [SUB TOTAL] key again cancels the setting.)	0 1 0 1 2 0 0 1 [SUB TOTAL]
3 Press [CA/AMT/TEND] key. Now your cash register complies with Australian GST. The printer prints "GST system was changed".	[CA/AMT/TEND]

By setting Australian GST system;

- Australian special rounding system is programmed.
- Tax symbol (*) will be printed on receipts or journals.
- Taxable amount will not be printed.
- "GST INCLUDED" will be printed on receipts or journals for tax 1.
- "TAXABLE AMT" will be printed on receipts or journals for taxable 1 amount.
- "$" will be printed as the monetary symbol.
- "MOF" will be printed on receipts.
- Ten percent tax rate, add-in tax, and rounding off are programmed in tax table 1. No setting in other tax tables.
- Other taxable amount and tax amount than TX1 (tax 1) and TA1 (taxable 1) will not be printed on sales reports.
- The lowest significant digit is restricted to 0 or 5 for cash sales, received on account, paid out, and money declaration amounts.
- Total line is printed even in direct (cash) sale.

Getting to know your cash register

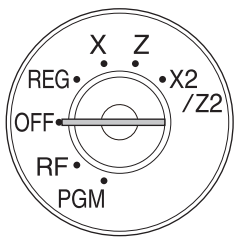
General guide



1	Drawer	6	Customer display
2	SD card slot cover	7	Main display
3	Printer cover	8	Mode switch
4	Receipt printer	9	Com port connector cover
5	Journal printer	10	Drawer lock

Mode switch

Use the mode keys to change the position of the mode switch and select the mode you want to use.



PGM (Programming)
This position is for setting your cash register to suit the needs of your store.

RF (Refund)
Use this position to correct registered items.

OFF
The cash register turns off in this position.

REG (Register)
This position is for normal transactions.

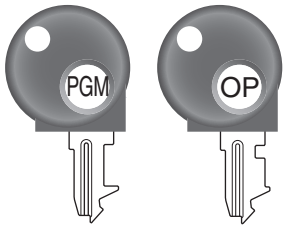
X (Read)
This is the position used for issuing daily sales totals report without clearing the data.

Z (Reset)
This position is for issuing reports of daily totals with clearing the accumulated totals.

X2/Z2 (Periodic sale read/reset)
Used to obtain periodic sales reports without resetting total data.

Mode keys

There are two types of mode keys: the program key (marked "PGM") and the operator key (marked "OP"). The program key can be used to set the mode switch to any position, while the operator key can select the REG and OFF position.



	PGM	RF	OFF	REG	X	Z	X2/Z2
OP key	-	-	○	○	-	-	-
PGM key	○	○	○	○	○	○	○

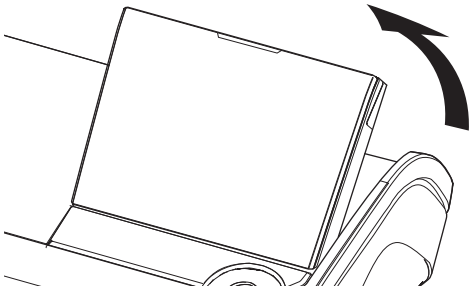
Drawer The drawer opens automatically whenever you finalize a registration and whenever you issue a read or reset report. The drawer will not open if it is locked with the drawer key.

Drawer key Use this key to lock and unlock the drawer.

Magnetic plate Use this plate for tacking the notes received from customer.

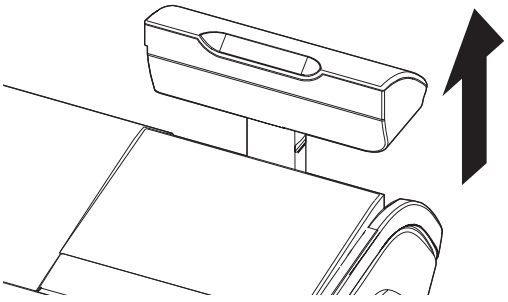
To adjust the main display

1 Put in fingers in the ditch of the main display and tilt it to the angle you can see clearly.

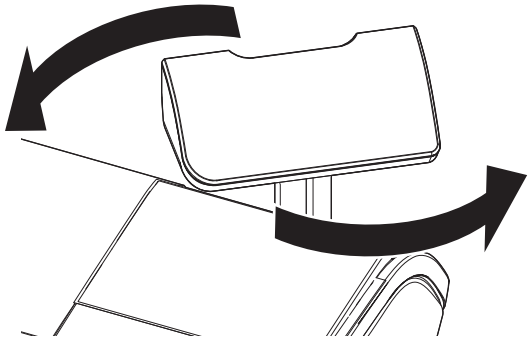


To set the customer display

1 Lift the customer display until it stops.

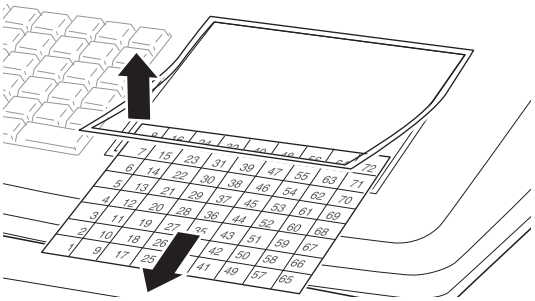


2 Rotate the display so that customers can see it.

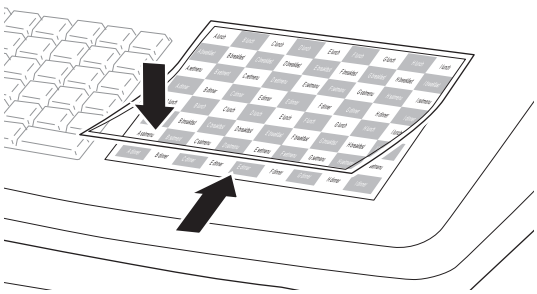


To set the menu sheet

1 Pull the sheet cover up and remove the old menu sheet.



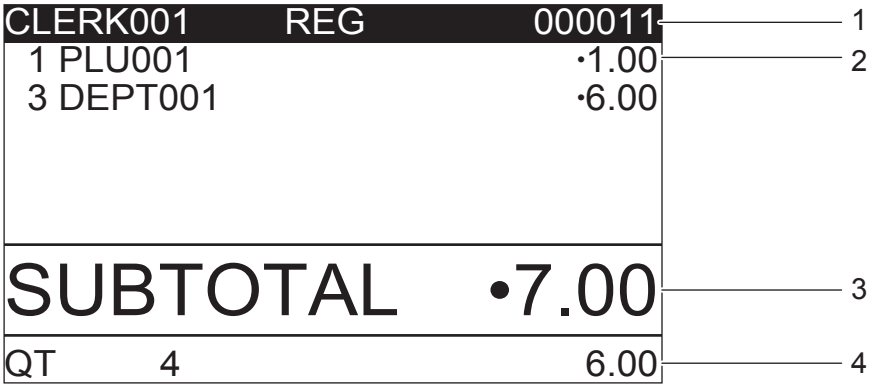
2 Put the new menu sheet and replace the sheet cover.



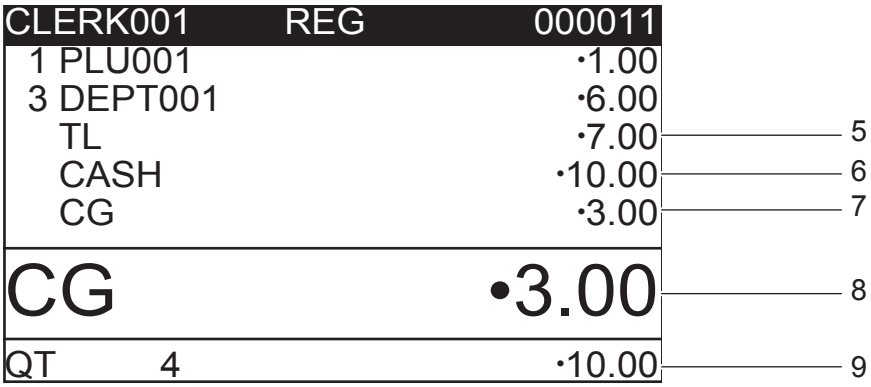
Display

■ Main display

During a registration



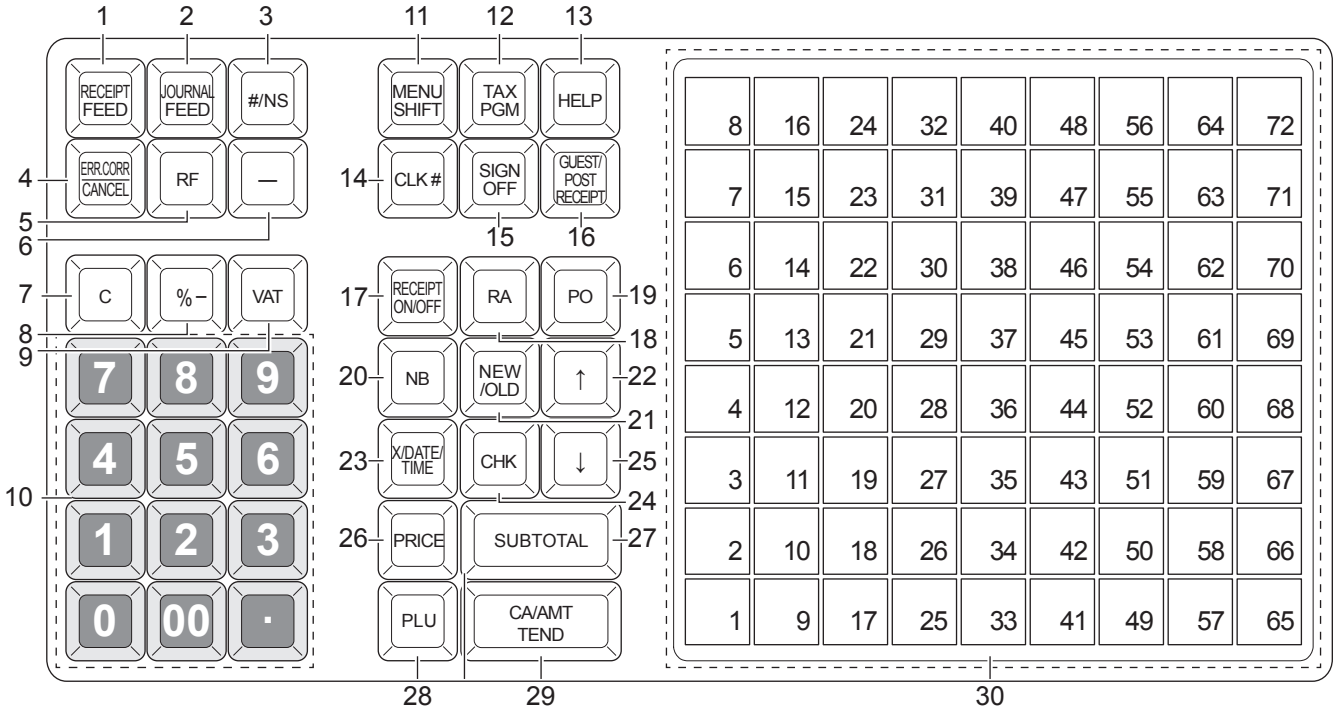
After finalization



1 Clerk Number or name/Mode/Consecutive No.
2 Registered item Quantity/Category/Price
3 Subtotal amount
4 Total quantity/Price of the last item
5 Total amount
6 Paid by/Tendered amount
7 Change
8 Change
9 Total quantity/Tendered amount

■ Customer display

Keyboard



1	RECEIPT FEED	Hold this key down to feed receipt paper from the printer.
2	JOURNAL FEED	Hold this key down to feed journal paper from the printer.
3	#/NS	Non-add key: Use this key to print reference number (to identify a personal check, credit card, etc.) during a transaction. Use this function after a numeral entry. No sale key: Use this key to open the drawer without any registration.
4	ERR.CORR. CANCEL	Use this key to correct registration errors or to cancel a transactions.
5	RF	Use this key to input refunded amounts or to void preceding inputs.
6	—	Use this key to input reduction values.
7	C	Use this key to clear an entry that has not yet been registered.
8	%–	Use this key to register discounts.
9	VAT	Use this key for printing breakdown of VAT.
10	0 9 00 ·	Use these keys to input numbers.
11	MENU SHIFT	Use this key to shift flat PLU keys to 1st to 3rd menu.
12	TAX PGM	Use this key to set the tax status and tax table.
13	HELP	Use this key to look up the procedures to set date/time, tax table etc.
14	CLK#	Use this key to input a clerk number.
15	SIGN OFF	Use this key to sign clerk off the register.
16	GUEST/ POST RECEIPT	Use this key to issue guest or post-finalization receipts..

17 RECEIPT ON/OFF Use this key to switch issuing receipts on and off.

18 RA Use this key following a numeric entry to register money received for non-sale transactions.

19 PO Use this key following a numeric entry to register money paid out from the drawer.

20 NB Use this key for adding the latest registered total amount to the previous balance to obtain a new balance.

21 NEW /OLD Use this key in a check tracking system to input check numbers in order to open new checks and to reopen exsisting checks.

22 ↑ Use this key to move the cursor on the display up.

23 ×/DATE TIME Use this key to input a quantity for a multiplication. Between transactions, pressing this key displays the current time and date.

24 CHK Use this key to register a check tendering.

25 ↓ Use this key to move the cursor on the display down.

26 PRICE Use this key to register unit prices for a PLU (subdepartment).

27 SUB TOTAL Use this key to display and print the current subtotal (including tax) amount.

28 PLU Use this key to input PLU (subdepartment) numbers.

29 CA/AMT TEND Use this key to register a cash sale.

30 1 to 72 Use these keys to register items to departments.

■ Allocatable functions

You can allocate the following functions on the keyboard to suit your purpose of register. The keys shown in < > in this manual are function allocated keys. To set these functions on the keyboard, please see page E-111.

<Add check>

Use this key in a check tracking system to combine the details of more than one check into a single check.

<Addition (plus)>

Use this key for registering surcharge.

<Age verification>

Use this key to enter tge birth date of the customer for age verification.

<Arrangement>

Use this key to activate an arrangement program programmed in the arrangement file. Any operation that can be performed from the keyboard, as well as mode, can be programmed in an arrangement program, and can be performed merely by pressing this key. In addition, one numeric entry can be included in an arrangement program. In this case, input the number and press this key.

The mode control function of this key can be programmed for all modes except for the OFF and PGM mode.

<Cash amount tendered>

Use this key to register a cash sale.

<Charge>

Use this key to register a charge sale.

<Check tendered>

Use this key to register a check tender.

<Clerk number>

Use this key to sign clerk on and off the register.

<Coupon>

Use this key to register coupons.

<Credit>

Use this key to register a credit sale.

<Currency exchange>

Use this key for calculating subtotal amounts or paying amount due in foreign currency.

<Customer number>

Use this key to register the number of customers.

<Department>

Use these keys to register items to departments.

<Department no. / Department shift>

Department no.: Use this key to input department numbers. Department shift: Use this key to shift the department key number.

<Discount>

Use this key to register discounts.

<Error correct / Cancel>

Use this key to correct registration errors and to cancel registration of entire transactions.

<Flat-PLU>

Use this key to register items to flat-PLUs.

<Help>

Use this key to look up the procedures to set date/time, tax table etc.

<Manual tax>

Use this key to register a tax amount.

<Menu shift>

Use this key to shift flat PLU keys to 1st ~ 3rd menu.

<Merchandise subtotal>

Use this key to obtain subtotal excluding the add-on tax amount and the previous balance.

<Multiplication>

Use this key to input a quantity for a multiplication operation. Between transactions, this key displays the current time and date.

<Multiplication / For>

Use this key to input a quantity for a multiplication operation and registration of split sales of packaged items. Between transactions, this key displays the current time and date.

<New balance>

Use this key for adding the latest registered total amount to the previous balance to obtain a new balance.

<New check>

Use this key in a check tracking system to input a new check number in order to open a new check under that number.

<New / Old check>

Use this key in a check tracking system to input check numbers in order to open new checks and to reopen existing checks. When the clerk inputs a check number, the register checks to see if that number already exists in the check tracking memory. If there is no matching number in the memory, a new check is opened under the input number. If the check number input matches a number already stored in the memory, that check is reopened for further registration or finalization.

<No sale>

Use this key to open the drawer between transaction.

<Non-add>
Use this key to print reference numbers (personal check number, card number, etc.)

<Non-add / No sale>
Non-add: Use this key to print reference number (to identify a personal check, credit card, etc.) during a transaction, use this key after some numerical entries.
No sale: Use this key to open the drawer without registering anything.

<Old check>
Use this key in a check tracking system to input the number of an existing check (previously created by the New check key) whose details are stored in the check tracking memory. Existing checks are reopened to perform further registration or to finalize them.

<Open>
Use this key to temporarily release a limitation on the number of digits that can be input for a unit price.

<Paid out>
Use this key following a numeric entry to register money paid out from the drawer.
Use this key to convert the main currency to the sub currency (the euro/the local money), when registering a subtotal amount. This key is also used for specifying sub currency while entering an amount of payment or declaration in drawers.

<PLU/Subdepartment>
Use this key to input PLU (subdepartment) numbers.

<Premium>
Use this key to register premiums.

<Price>
Use this key to register unit prices for PLU (subdepartment).

<Post receipt>
Use this key to produce a guest or post-finalization receipt.

<Receipt on/off>
Use this key twice to change the status "receipt issue" or "no receipt."

<Received on account>
Use this key following a numeric entry to register money received for non-sale transactions.

<Reduction (minus)>
Use this key to input values for reduction.

<Refund>
Use this key to input refund amounts and void certain entries.

<Sign off>
Use this key to sign clerk off the register.

<Subtotal>
Use this key to display and print the current subtotal (includes add-on tax) amount.

<Tax shift>
Use this key to change the Taxable status of the next item.

<Tax program>
Use this key to program tax status and tax table easily.

<Text recall (CHAR)>
Use this key to print preset characters.

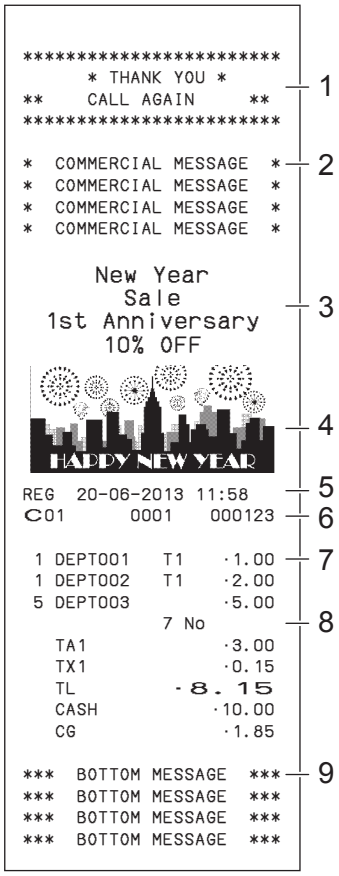
<Tip>
Use this key to register tips.

<VAT>
Use this key to print a VAT breakdown.

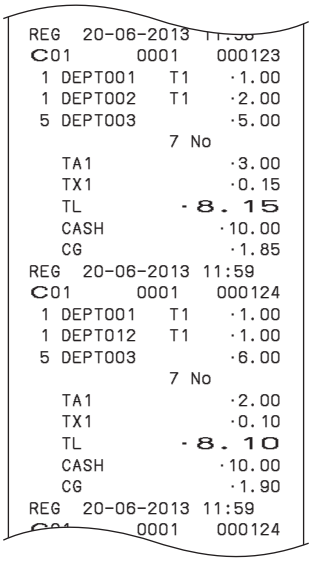
How to read the printouts

- The journal/receipts are records of all transactions and operations.
- The contents printed on receipts and journal are almost identical.
- You can choose the journal skip function.
  If the journal skip function is selected, the cash register will print the total amount of each transaction, and the details of premium, discount and reduction operations only, without printing department and PLU item registrations on the journal.
- The following items can be skipped on receipts and journal.
  - Taxable status
  - Taxable amount
  - Item counter

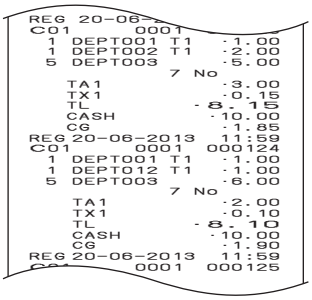
Receipt Sample



Journal Sample (with items)



Journal Sample (by half height character)



1 Logo message
2 Commercial message
3 Preset message *
4 Preset graphic *
5 Mode/Date/Time
6 Clerk/Machine No./Consecutive No.
7 Q'ty/Item
8 Item counter
9 Bottom message

* You can choose to print preset message and graphic at the top or the bottom of the receipt. (See page E-31)

In the operation examples in this manual, the printout samples are what would be printed.

How to use your cash register

The following describes the general procedure you should use in order to get the most out of your cash register.

Before opening your store

- Plugged in? (page E-13)
- Enough paper roll? (pages E-11 and E-12)
- Date and time are correct? (pages E-25 and E-30)
- Enough small change in the drawer? (page E-25)

While the store is open

- Registrations (page E-26)
- Issuing latest total sales report if needed. (page E-48)

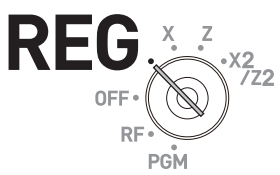
After closing the store

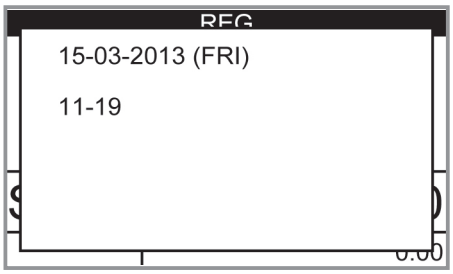
- Issuing day's total sales report. (page E-48)
- Withdraw the money from the drawer.
  After you withdraw all the money from the drawer, we recommend that you leave the drawer open when you leave your store. (page E-25)
- Turn the Mode switch to OFF. (page E-15)

Before opening your store

Checking the time and date

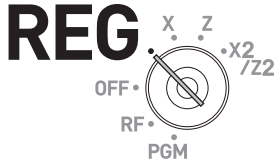
You can check the time or date on the display whenever there is no registration being made.



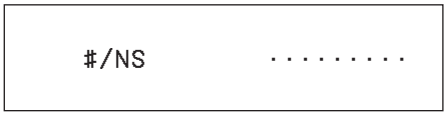
Step	Operation	Display
1 Press [×/DATE TIME] key to show the date and time on the display.	[×/DATE TIME]	
2 Press [C] key to clear the date/ time display.	[C]	

Preparing bills and coins for change

To prepare coins and bills for change, you can open the drawer by pressing [NS] key. This operation must be performed when registrations are not being made.

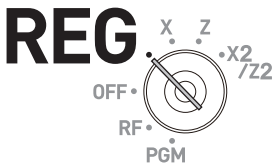


NOTE **Opening the drawer by [#/NS] key does not perform any calculation in the register. If you wish to obtain a report that tells you the total amount in drawer, use [RA] key instead of [#/NS] key. See page E-44.**

Step	Operation	Printout
1 Press [#/NS]. The cash drawer opens.	[#/NS]	
2 Prepare coins and bills in the drawer.		

Registering items in departments

The following examples show how you can use the department keys in various types of registrations.
Departments are used for categorizing items for example, department 01 for vegetables, department 02 for fruits, and department 03 for canned foods etc.



■ Single item sale

Sample Operation

Item	Unit Price	•1.00	One •1.00 Dept. 01 item is sold and the customer paid the same amount as the total amount.
	Quantity	1	
	Dept.	01	
Payment	Cash	•1.00	

Step	Operation	Printout
1 Enter the unit price.	1 00	1 DEPT001 ·1.00 TL -1.00 CASH ·1.00
2 Press corresponding department key.	1	
3 Press CA/AMT/TEND key.	CA/AMT/TEND	

Further operations:

• For simpler operation of single item sales, see page E-54

■ Single item sales with change calculation

Sample Operation

Item	Unit Price	•12.34	One item is sold and the customer paid more than the total amount.
	Quantity	1	
	Dept.	01	
Payment	Cash	•20.00	

Step	Operation	Printout
1 Enter the unit price.	1 2 3 4	1 DEPT001 ·12.34 TL -12.34 CASH ·20.00 CG ·7.66
2 Press corresponding department key.	1	
3 Press SUB TOTAL key.	SUB TOTAL	
4 Enter the tendered amount then press CA/AMT/TEND key. The display shows the change to be paid.	2 0 00 CA/AMT/TEND	

■ Repeat registration

Sample Operation

Item	Unit Price	•1.50	Same priced multiple items are sold.
	Quantity	3	
	Dept.	1	
Payment	Cash	•10.00	

Step	Operation	Printout
1 Enter the unit price.	1 5 0	1 DEPT001 ·1.50 1 DEPT001 ·1.50 1 DEPT001 ·1.50 TL -4.50 CASH ·10.00 CG ·5.50
2 Press corresponding department key repeatedly for the purchased quantity.	1 1 1	
3 Press SUB TOTAL key.	SUB TOTAL	
4 Enter the tendered amount then press CA/AMT/TEND key. The display shows the change to be paid.	1 0 00 CA/AMT/TEND	

■ Multiple items registration using multiplication key

Sample Operation

Item	Unit Price	•1.00	Twelve pieces of •1.00 item are sold and the customer paid more than the total amount.
	Quantity	12	
	Dept.	1	
Payment	Cash	•20.00	

Step	Operation	Printout
1 Enter the the quantity then press ×/DATE TIME key.	1 2 ×/DATE TIME	12 DEPT001 ·12.00 TL -12.00 CASH ·20.00 CG ·8.00
2 Enter the unit price and press corresponding department key.	1 00 1	
3 Press SUB TOTAL key.	SUB TOTAL	
4 Enter the tendered amount then press CA/AMT/TEND key. The display shows the change to be paid.	2 0 00 CA/AMT/TEND	

■ Split sales of packaged items

By using allocated <X/For/Date Time> key, you the register allows you split sales of packaged items. Please see page E-111 for the key allocation.

Sample Operation

Item	Unit Price	4 for •10.00	Three pieces of an item thats price is •10.00 for four pieces are sold.
	Quantity	3	
	Dept.	1	
Payment	Cash	•10.00	

Step	Operation	Printout
1 Enter purchased quantity then press <X/For/Date Time> key.	3 <X/For/Date Time>	3 DEPT001 ·7.50 TL -7.50 CASH ·10.00 CG ·2.50
2 Enter the quantity of one set and press <X/For/Date Time> key.	4 <X/For/Date Time>	
3 Enter the package price and press corresponding department and [SUB TOTAL] keys.	1 0 00 [1] [SUB TOTAL]	
4 Enter the tendered amount and press [CA/AMT/TEND] key.	1 0 00 [CA/AMT/TEND]	

■ Department shift

If a key is allocated as <Dept. no./Dept. shift>, you can register items in depts. 73 through 144. To allocate <Department no./Department shift> function to a key, please see page E-111.

Sample Operation

Item	Unit Price	•1.00	Department 73 is assigned by using <Dept. no./Dept. shift> key.
	Quantity	1	
	Dept.	73	
Payment	Cash	•1.00	

Step	Operation	Printout
1 Press the key on which <Dept. no./Dept. shift> function is allocated. "SHIFT/No" will be shown at the bottom of the display.	<Dept. no./Dept. shift>	1 DEPT026 ·1.00 TL -1.00 CASH ·1.00
2 Enter the unit price and press corresponding department key. Then press [SUB TOTAL] key. The item is registered in Dept. 73 in this example.	1 0 00 [1] [SUB TOTAL]	
3 Press [CA/AMT/TEND] key to finalize the transaction.	[CA/AMT/TEND]	

■ Department number entry

If you allocate <Dept. no./Dept. shift > function to a key, you can register items without using Department key.

Sample Operation

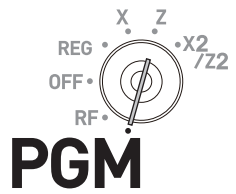
Item	Unit Price	•13.00	Registering an item in Dept. 31 without using Department key.
	Quantity	1	
	Dept.	31	
Payment	Cash	•13.00	

Step	Operation	Printout
1 Enter Dept. number using ten key pad then press <Dept. no./Dept. shift> key.	3 1 <Dept. no./Dept. shift>	1 DEPT031 ·13.00 TL -13.00 CASH ·13.00
2 Enter the unit price and press PRICE key. Then press SUB TOTAL key. The item is registered in Dept. 31 in this example.	1 3 00 PRICE SUB TOTAL	
3 Press CA/AMT TEND key to finalize the transaction.	CA/AMT TEND	

Basic setups and registrations

To program basic settings

You can program basic settings in the PGM mode of the Mode switch.

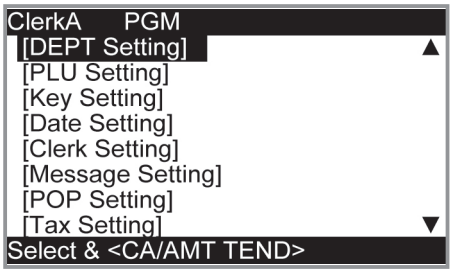


Step

1. By turning the Mode switch to PGM position, the display indicates the programming top menu.
2. Use [↑] or [↓] keys to choose the item you wish to set then press [CA/AMT TEND] key.

   Repeat the above step until the display shows an entry display.
3. Input values you wish to set and press [CA/AMT TEND] key.

Display



The following table shows the setting items of the basic programming.

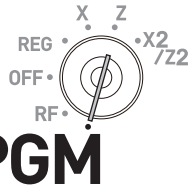
■ Program menus

Top menu	Sub menu		What is to be set
[DEPT Setting]	DEPT name [DEPT0001]		Sets name, unit price, taxable status, item group and high amount limitation in each department. See page E-32.
	Unit Price [12.00]		
	Taxable Status [NON TAX]		
	Group Link [03]		
	HAL (High amount limit) [0.00]		
[PLU Setting]	PLU name [PLU0001]		Sets name, unit price, taxable status, item group, department link and open PLU in each PLU. See page E-34.
	Unit Price [12.00]		
	Taxable Status [NON TAX]		
	Group Link [03]		
	DEPT Link [003]		
	Open PLU [Yes]		
[Key Setting]	%-	[ ]	Sets name, taxable status, and whether to use taxable status or not in each function key.
	-	RATE [ ]	
	CE	Taxable Status [ ]	
	COUPON		
[Date Setting]	TIME (24 HOUR) [19:56]		Sets date and time.
	DAY [26]		
	MONTH [12]		
	YEAR 20[12]		
[Clerk Setting]	Name [CLERK01]		Sets clerk's name and number.
	Secret No [1234]		

Top menu	Sub menu		What is to be set
[Message Setting]	01 Logo 1		Sets logo, commercial, and bottom messages on receipts. See page E-76.
	02 Logo 2		
	03 Logo 3		
	04 Logo 4		
	05 Commercial 1		
	06 Commercial 2		
	07 Commercial 3		
	08 Commercial 4		
	01 Bottom 1		
	02 Bottom 2		
	03 Bottom 3		
	04 Bottom 4		
[POP Setting]	POP Message No. 1 [ ]		Sets preset pop messages and illustration. See page E-76.
	POP Message No. 2 [ ]		
	POP Message No. 3 [ ]		
	POP Message No. 4 [ ]		
	POP Graphic No.[ ]		
	POP Print		
	All Message		
	All Graphic		
[Tax Setting]	[RATE]		
	[ROUND]		
	[CAL TYPE]		
[General Setting]	Enable clerk		Sets general controls of the register such as clerk assignment, printing journal in half size etc.
	Journal 1/2 Print		
	Consective No. Reset [Yes]		
	EJ clear (After Daily Z) [Yes]		
	EJ/Sales→SD (After XZ) [Yes]		
[Water Mark Setting]	YES		
	NO		
[SD card]	[Backup → SD]		Exchanges sales data, program data, and receipt's message data between the register and an SD card. See page E-127.
	[Restore← SD]		
	[Program→ SD]		
	[Program← SD]		
	[SD Format]		
	[Backup → Flash]		
	[AutoPropram→ SD]		
	[AutoProgram← SD]		
[System Setting]			Used to set characters, functions of keys, or calculation methods etc.

Programming departments

This section explains how you can set unit prices, taxable statuses, and item groups. You can program each department linking to a certain group. For example, department 01 is for packed milk, department 02 is for cheese and both belong to group 03 (dairy goods).

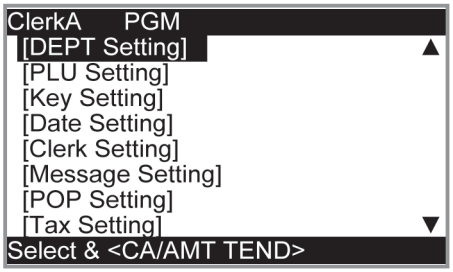


Sample Operation

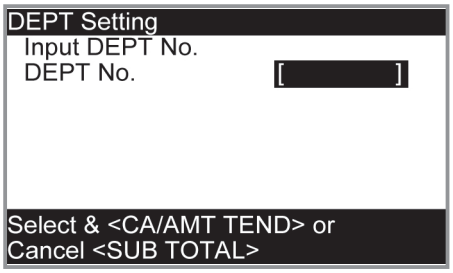
Dept. 01	Unit Price	•2.50	Programming Dept. 01 as unit price •2.50, non taxable, belonging to Group 02.
	Taxable status	Non tax	
	Group	02	

Step **Display**

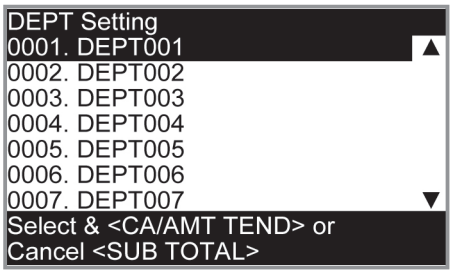
1 Turn the Mode switch to PGM position. The display shows the top screen of programming.



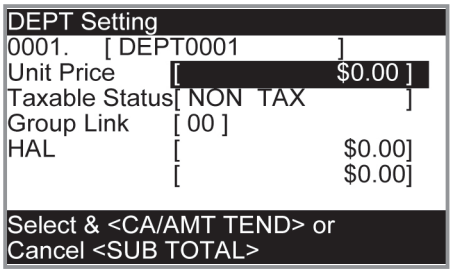
2 Using [↑] or [↓] keys, select [DEPT Setting] then press [CA/AMT TEND] key. The display shows [DEPT Setting] screen.



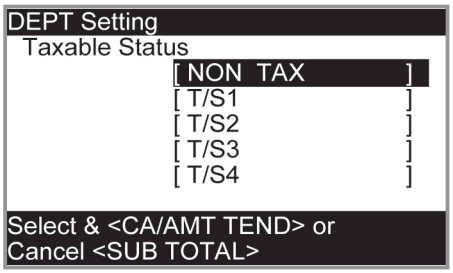
3 Enter the department number (01 in this example) then press [CA/AMT TEND] key. The display shows department selection screen. You can change the department by using [↑] or [↓] keys.



4 Press [CA/AMT TEND] key. The display shows program input screen. Input unit price and group link you wish to program. The top column is for setting characters to the dept. You can leave the column empty. If you wish to set characters now, please see page E-72.



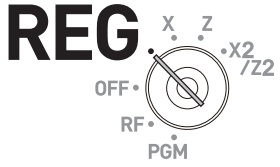
5 Select [Taxable Status] and press [CA/AMT TEND] key. The display shows taxable status selection screen. Choose the taxable status and press [CA/AMT TEND] key.



NOTE **The display returns to the previous screen by pressing [SUB TOTAL] key.**

Registering departments' preset data

The following examples explain the operations using preset department data programmed in the previous section.



■ Using preset prices

Sample Operation

Item	Unit Price	•2.50	Unit price •2.50 is preset in Dept. 02.
	Quantity	1	
	Dept.	02	
Payment	Cash	•2.50	

Step	Operation	Printout
1 Just press the corresponding Department key.	2	1 DEPT002 ·2.50 TL -2.50 CASH ·2.50
2 Press CA/AMT/TEND key to finalize the transaction.	CA/AMT/TEND	

■ Using preset tax statuses

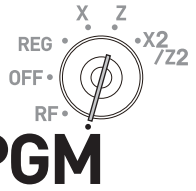
Sample Operation

Item 1	Unit Price	•2.00	• Dept. 03 presets: Unit price •2.00, Tax status 1 (4%). • Dept. 04 presets: Unit price •2.00, Tax status 2 (10%).
	Quantity	5	
	Dept.	03	
	Taxable	1	
Item 2	Unit Price	•2.00	
	Quantity	1	
	Dept.	04	
	Taxable	2	
Payment	Cash	•2.50	

Step	Operation	Printout
1 Register five pieces of Dept. 03 item using the multiplication key.	5 ×/DATE TIME 3	5 DEPT003 T1 ·10.00 1 DEPT004 T2 ·2.00 TA1 ·10.00 TX1 ·0.40 TA2 ·2.00 TX2 ·0.20 TL -12.60 CASH ·20.00 CG ·7.40
2 Press Dept. 04 key to register one •2.00 item.	4	
3 Press SUB TOTAL key to indicate the total amount including tax.	SUB TOTAL	
4 Enter the tendered amount and press CA/AMT/TEND key.	CA/AMT/TEND	

Programming PLUs

Like departments, you can program unit price, taxable status, and linking item group in a PLU (Price Look Up). Using PLUs allow you to register items quickly and accurately. You can use up to 7,000 PLUs.

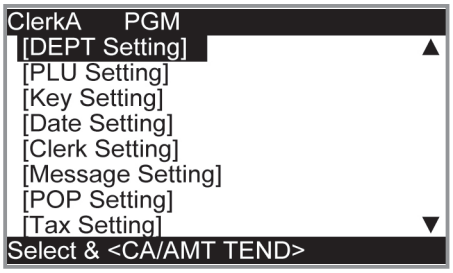


Sample Operation

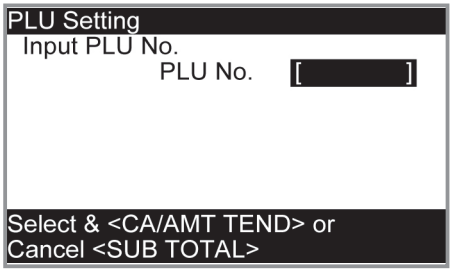
PLU 0014	Unit Price	•2.50	Programming PLU 0014 as unit price •2.50, non taxable, belonging to Group 03.
	Taxable status	Non tax	
	Group	03	

Step **Display**

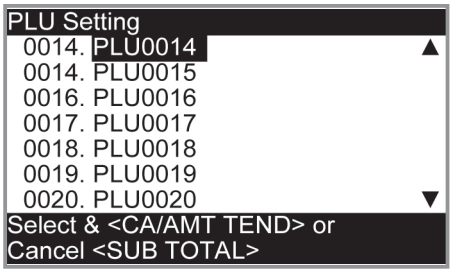
1 Turn the Mode switch to PGM position. The display shows the top screen of programming.



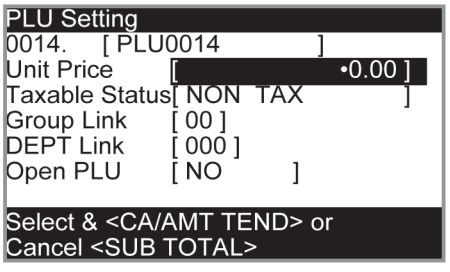
2 Using [↑] or [↓] keys, select [PLU Setting] then press [CA/AMT TEND] key. The display shows [PLU Setting] screen.



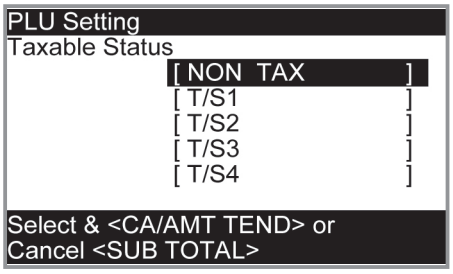
3 Enter the PLU number (0014 in this example) then press [CA/AMT TEND] key. The display shows [PLU Setting] screen. You can change the PLU number by using [↑] or [↓] keys.



4 Press [CA/AMT TEND] key. The display shows program input screen. Input unit price and group link you wish to program. The top column is for setting characters to the PLU. You can leave the column empty. If you wish to set characters now, please see page E-72.



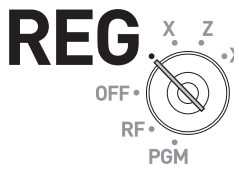
5 Select [Taxable Status] and press [CA/AMT TEND] key. The display shows taxable status selection screen. Choose the taxable status and press [CA/AMT TEND] key.



NOTE **The display returns to the previous screen by pressing [SUB TOTAL] key.**

Registering PLUs' preset data

The following examples explain the operations using preset PLU data programmed in the previous section.



■ Single item sales using PLU

Sample Operation

Item	Unit Price	•2.50	One piece of PLU number 14 (preset unit price •2.50) is sold.
	Quantity	1	
	PLU No.	14	
Payment	Cash	•3.00	

Step	Operation	Printout
1 Enter the PLU number and press [PLU] key. One piece of PLU number 14 item has been registered. Then press [SUB TOTAL] key.	1 4 [PLU] [SUB TOTAL]	1 PLU0014 ·2.50 TL -2.50 CASH ·3.00 CG ·0.50
2 Enter tendered amount and press [CA/AMT TEND] key.	3 00 [CA/AMT TEND]	

■ PLU repeat registration

Sample Operation

Item	Unit Price	•2.50	Three pieces of PLU number 14 (preset unit price •2.50) is sold.
	Quantity	3	
	PLU No.	14	
Payment	Cash	•10.00	

Step	Operation	Printout
1 Enter the PLU number.	1 4	1 PLU0014 ·2.50 1 PLU0014 ·2.50 1 PLU0014 ·2.50 TL -7.50 CASH ·10.00 CG ·2.50
2 Press [PLU] key repeatedly for the number of sold quantity. Three pieces of PLU 14 have been registered. Then press [SUB TOTAL] key.	[PLU] [PLU] [PLU] [SUB TOTAL]	
3 Enter the tendered amount and press [CA/AMT TEND] key.	1 0 00 [CA/AMT TEND]	

■PLU registration with multiplication key

Sample Operation

Item	Unit Price	•2.00	Ten pieces of PLU number 7 item (preset unit price •2.00) are sold.
	Quantity	10	
	PLU No.	7	
Payment	Cash	•20.00	

Step	Operation	Printout
1 Enter the quantity sold then press [X/DATE TIME] key. Up to 9999.999 can be entered for multiplication calculations.	10 [X/DATE TIME]	10 PLU0007 ·20.00 TL -20.00 CASH ·20.00 CG ·0.00
2 Enter the PLU number and press [PLU] key. Then press [SUB TOTAL] key.	7 [PLU] [SUB TOTAL]	
3 Enter tendered amount and press [CA/AMT/TEND] key.	2 0 00 [CA/AMT/TEND]	

■Split sales of packaged PLU item

By using allocated <X/For/Date Time> key, the register allows you split sales of packaged PLU items. Please see page E-111 for the key allocation.

Sample Operation

Item	Unit Price	5 for •20	Selling three pieces of an item that is priced •20.00 for five pieces.
	Quantity	3	
	PLU No.	28	
Payment	Cash	•15.00	

Step	Operation	Printout
1 Enter the quantity being purchased and press <X/For/Date Time> key for multiplication calculation. You can enter up to 9999.999 for multiplication calculations.	3 <X/For/Date Time>	3 PLU0028 ·12.00 TL -12.00 CASH ·15.00 CG ·3.00
2 Enter the packaged quantity and press <X/For/Date Time> key. You can enter up to 9999.999 for packaged quantity.	5 <X/For/Date Time>	
3 Enter the PLU number of the item and press [PLU] key. Then press [SUB TOTAL] key.	2 8 [PLU] [SUB TOTAL]	
4 Enter the tendered amount and press [CA/AMT/TEND] key.	1 5 00 [CA/AMT/TEND]	

■ Open PLU

Although unit price is preset in a PLU, you can enter price manually if the PLU is programmed as "Open PLU". To program open PLU, see page E-30.

Sample Operation

Item 1	Unit Price	•32.80	PLU numbers 30 and 31 are programmed as open PLU so that the unit prices can be entered manually.
	Quantity	1	
	PLU No.	30	
Item 2	Unit Price	•13.00	
	Quantity	2	
	PLU No.	31	
Payment	Cash	•60.00	

Step	Operation
1 Enter the PLU number of the first item then press [PLU] key.	3 0 [PLU]
2 Enter the unit price and press [PRICE] key.	3 2 8 0 [PRICE]
3 Enter the PLU number of the second item then press [PLU] key.	3 1 [PLU]
4 Enter the unit price.	1 3 00
5 Press [PRICE] key repeatedly for the number of purchased quantity and press [SUB TOTAL] key.	[PRICE] [PRICE] [SUB TOTAL]
6 Enter the tendered amount and press [CA/AMT/TEND] key.	6 0 00 [CA/AMT/TEND]

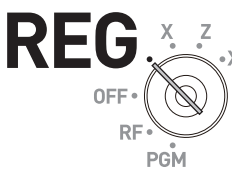
Printout

```
1 PLU0030          ·32.80
1 PLU0031          ·13.00
1 PLU0031          ·13.00
  TL             -58.80
  CASH             ·60.00
  CG                ·1.20
```

Other registrations

Discount

The following example shows how you can use the %− key for discount registrations.



■ Discounts on items and subtotals

Sample Operation

Item 1	Dept. 01	•5.00	Five percent (preset in %− key) discount on PLU number 16 (preset unit price •10.00) and discount 3.5% on the subtotal amount.
	Quantity	1	
	Taxable	1 (preset)	
Item 2	PLU 16	•10.00 (preset)	
	Quantity	1	
	Taxable	2 (preset)	
Discount	Rate	5% (preset in %−)	
Subtotal discount	Rate	3.5%	
	Taxable	Non taxable (preset)	
Payment	Cash	•15.00	

Step	Operation
1 Enter the unit price and corresponding department key.	5 00 1
2 Enter the PLU number then press PLU key. The preset unit price (•10.00) is registered.	1 6 PLU
3 Press %− key. The discount amount with the preset rate (5%) is subtracted from the last item registered (PLU 16).	%−
4 Press SUB TOTAL key for giving discount on the subtotal amount.	SUB TOTAL
5 Enter the discount rate manually and press %− key. Discount amount with inputted rate is subtracted from the subtotal amount.	3 · 5 %−
6 Press SUB TOTAL key to show the total amount including tax and discounts.	SUB TOTAL
7 Enter the tendered amount and press CA/AMT TEND key.	1 5 00 CA/AMT TEND

Printout

```
1 DEPT001     T1     ·5.00
1 PLU0016     T2    ·10.00
  5%
  %-          T2     -0.50
  ST                ·14.50
  3.5%
  %-                 -0.51
  TL              - 13.99
  CASH              ·15.00
  CG                 ·1.01
```

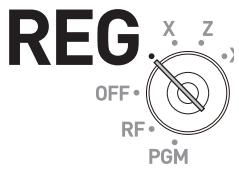
Printout differs depending on preset tax statuses.

NOTE

- **When you perform a discount operation on the last item registered, the tax of discount amount is calculated in accordance with the tax status programmed to the item.**
- **When you perform a discount operation on a subtotal amount, the tax of discount amount from subtotal is calculated in accordance with the tax status programmed in the %− key.**
- **To program discount rate in %− key, please see page E-30.**

Reduction

Using the reduction feature, you can subtract a certain amount from an item's unit price or from a subtotal amount.



Sample Operation

Item 1	Dept. 01	•5.00	• Reducing •0.25 (manual input) from item 1 unit price. • Reducing •0.50 (preset amount) from item 2. • Reducing •0.75 (manual input) from subtotal amount.
	Quantity	1	
	Taxable	1 (preset)	
	Reduction	•0.25	
Item 2	PLU 45	•6.00 (preset)	
	Quantity	1	
	Taxable	1 (preset)	
	Reduction	•0.50 (preset)	
Subtotal	Reduction	•0.75	
	Taxable	Non taxable (preset)	
Payment	Cash	•10.00	

Step	Operation
1 Register item 1 by inputting the unit price and department key.	5 0 0 1
2 Enter reduction amount manually and press — key. •0.25 is subtracted from the unit price.	2 5 —
3 Register item 2 by inputting the PLU number and PLU key.	4 5 PLU
4 Press — key. Pressing — key without numeral entry subtracts the preset reduction amount (•0.50 in this example) from the PLU's unit price.	—
5 Press SUB TOTAL key for reducing amount from the subtotal.	SUB TOTAL
6 Enter reduction amount manually then press — key. The inputted amount is subtracted from the subtotal amount.	7 5 —
7 Enter the tendered amount then press CA/AMT TEND key.	1 0 00 CA/AMT TEND

Printout

```
1 DEPT001    T1     ·5.00
  -          T1     -0.25
1 PLU0045    T1     ·6.00
  -          T1     -0.50
  -                 -0.75
  TL              -9.50
  CASH           ·10.00
  CG              ·0.50
```

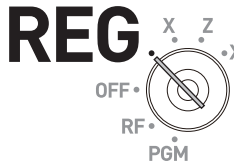
Printout differs depending on preset tax statuses.

NOTE

- **You can input up to seven digits reduction amount manually.**
- **To program preset reduction amount, please see page E-30.**

Registering various payment methods

Other than cash payments, you can register transactions made by checks, charges, credits, or even mixed tendering.



■ Check sale

Sample Operation

Item	Unit Price	•11.00	A •11.00 item is sold and customer paid by •20.00 check (check number 1234).
	Quantity	1	
Reference no. of check		1234	
Payment	Check	•20.00	

Step	Operation	Printout
1 Register the item purchased.	1 1 00 1	1 DEPT001 ·11.00 # 1234 TL - 11.00 CHECK ·20.00 CG ·9.00
2 If you wish to record reference number such as a check number, enter the number then press #/NS key.	1 2 3 4 #/NS	
3 Enter the paid amount then press CHK key.	2 0 00 CHK	

■ Charge sale

If <Charge> function is allocated to a key, you can register a charge sale. To allocate <Charge> function on a key, please see page E-111.

Sample Operation

Item	Dept. 04	•15.00	A purchased item is transacted by charge sale.
	Quantity	1	
Payment	Charge	•15.00	

Step	Operation	Printout
1 Register the item purchased and press CLK# key.	1 5 00 4 SUB TOTAL	1 DEPT004 ·15.00 TL - 15.00 CHARGE ·15.00
2 Press <Charge> key to finalize the charge transaction.	<Charge>	

■ Credit sale

Sample Operation

Item	Dept. 03	•10.00	A purchased item is paid by a credit card.
	Quantity	1	
Payment	Credit	•10.00	

Step	Operation	Printout
1 Register the item purchased and press [SUB TOTAL] key.	1 0 00 3 [SUB TOTAL]	1 DEPT003 ·10.00 TL -10.00 CREDIT ·10.00
2 Press [CR] key to finalize the transaction.	[CR]	

■ Mixed payments (cash and check)

Sample Operation

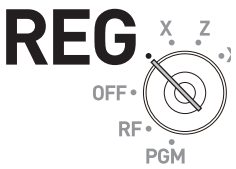
Item	Dept. 04	•55.00	Customer paid •30.00 by check and the rest in cash for •55.00 item.
	Quantity	1	
Payment	Check	•30.00	
	Cash	•25.00	

Step	Operation	Printout
1 Register the item purchased and press [SUB TOTAL] key.	5 5 00 4 [SUB TOTAL]	1 DEPT004 ·55.00 TL -55.00 CHECK ·30.00 CASH ·25.00 CG ·0.00
2 Enter the amount paid by a check then press [CHK] key.	3 0 00 [CHK]	
3 Enter the paid cash amount then press [CA/AMT/TEND] key.	2 5 00 [CA/AMT/TEND]	

Registering returned goods

■ Registering returned goods in the REG mode

The following example shows how to operate for registering goods returned by customer in the REG mode.



Sample Operation

Item 1	Dept. 01	•2.35	Customer returned items 1 and 3 during the registration.
	Quantity	1	
Item 2	Dept. 02	•2.00	
	Quantity	1	
Item 3	PLU 001	•1.20 (preset)	
	Quantity	1	
Refunded Item 1	Dept. 01	•2.35	
	Quantity	1	
Refunded Item 3	PLU 0001	•1.20 (preset)	
	Quantity	1	
Payment	Cash	•2.00	

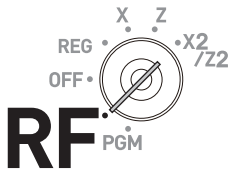
Step	Operation
1 Register purchased item 1.	2 3 5 1
2 Register purchased item 2.	2 00 2
3 Register purchased item 3.	1 PLU
4 Press RF key prior to registering returned item 1.	RF
5 Register returned item 1.	2 3 5 1
6 Press RF key and register returned item 3. Then press SUB TOTAL key.	RF 1 PLU SUB TOTAL
7 Press CA/AMT TEND key as the customer paid exact amount.	CA/AMT TEND

Printout

```
1 DEPT001          ·2.35
1 DEPT002          ·2.00
1 PLU0001          ·1.20
  RF               ·····
1 DEPT001         -2.35
  RF               ·····
1 PLU0001         -1.20
  TL              -2.00
  CASH             ·2.00
```

■ Registering returned goods in the RF mode

When a customer returns goods after the transaction has been completed, use RF mode for the refund operation.



Sample Operation

Refunded Item 1	Dept. 03	•4.00	A customer returned two items. Item 1 was sold with •0.15 reduction and item 2 was sold with pre-programmed 5% discount.
	Quantity	1	
	Reduced	•0.15	
Refunded Item 2	PLU 002	•1.20 (preset)	
	Quantity	1	
	Discounted	5% (preset)	
Payment	Cash	•4.99	

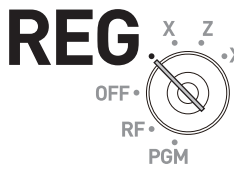
Step	Operation	Printout
1 Turn the Mode switch to RF position.		
2 Register the returned items by the same operations as normal registration and press [SUB TOTAL] key.	[4] [00] [3] [1] [5] [–] [2] [PLU] [%–] [SUB TOTAL]	1 DEPT003 ·4.00 – –0.15 1 PLU0002 ·1.20 5% %– –0.06 TL ·4.99 CASH ·4.99
3 Press [CA/AMT/TEND] key and pay the total amount back to the customer.	[CA/AMT/TEND]	

Important

- After the refund operation, please do not forget to return the Mode switch to REG position otherwise the following registrations are stored as minus transactions.

Registrations without transactions

The followings are the operations other than normal sales transactions. Please do not perform these operations during a sales transaction.



■ Registering money received on account

Use this operation when you put money in the drawer without any sales transactions such case as preparing change.

Sample Operation

Received amount	•70.00	Prepared •70.00 in the drawer for change before opening the store.

Step	Operation	Printout
1 Enter the amount put in the drawer then press [RA] key.	7 0 00 [RA]	RA $70.00

■ Registering money paid out from the drawer.

Use this operation when you withdraw money from the drawer without any sales transactions such case as paying for a cash-on-delivery item.

Sample Operation

Paid out amount	•1.50	Paying •1.50 from the drawer.

Step	Operation	Printout
1 Enter the amount withdrawn from the drawer then press [PO] key.	1 5 0 [PO]	PO $1.50

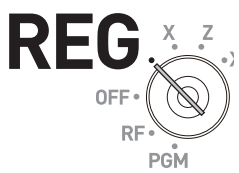
■ Opening the drawer without putting money in or out

Use this operation to open the drawer without putting money in or out. The number of [#/NS] key operations will be printed on X or Z reports.

Step	Operation	Printout
1 Just press [#/NS] key. The drawer opens.	[#/NS]	#/NS .....

Corrections

There are three ways to correct erroneous operations that are;
- Correcting erroneous item not registered
- Correcting erroneous item already registered
- Cancelling all the items registered in a transaction



■ Correcting erroneously entered item not registered

Step	Operation
1 Correcting wrong unit price •2.00 to •1.00.	2 00 C 1 00 1
2 Correcting wrong quantity 12 to 11.	1 2 DATE TIME C 1 1 DATE TIME 2 00 2
3 Correcting wrong PLU number 002 to 003.	2 C 3 PLU
4 Correcting open PLU unit price •6.00 to •10.00. You must re-enter the PLU number prior to entering correct unit price.	1 5 PLU 6 00 C 1 5 PLU 1 0 00 PRICE
5 Correcting wrong partially tendered cash amount •10.00 to •15.00.	1 0 00 C 1 5 00 CA/AMT/TEND
6 The remaining amount is paid by check.	CHK

Printout

```
 1 DEPT001          ·1.00
11 DEPT002         ·22.00
 1 PLU0003          ·1.30
 1 PLU0015         ·10.00
   TL             -34.30
   CASH             ·15.00
   CHECK            ·19.30
```

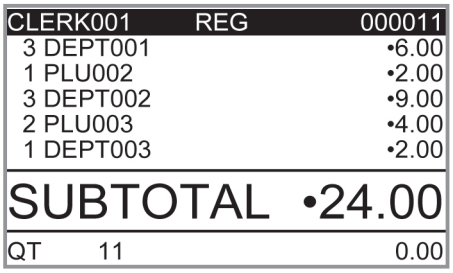
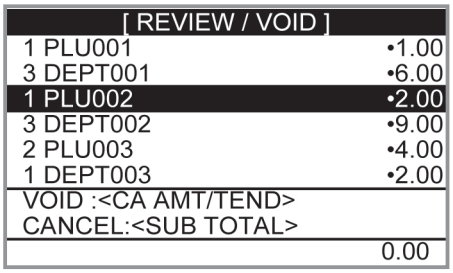
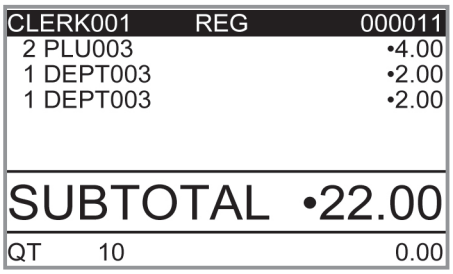
■ Correcting items immediately after the registration

Step	Operation
1 Registering an item.	1 00 1
2 By mistake, Dept. key has been pressed twice so cancelling the preceding registration by ERR CORR. CANCEL key.	2 00 2 2 ERR CORR. CANCEL
3 Cancelling wrong PLU registration (PLU No. 2) and re-registering correct PLU (PLU No. 5).	2 PLU ERR CORR. CANCEL 5 PLU
4 Cancelling a registration of an open PLU's (PLU No. 15) wrong unit price •6.00 and re-registering the item with the correct unit price •10.00.	1 5 PLU 6 00 PRICE ERR CORR. CANCEL 1 5 PLU 1 0 00 PRICE
5 Cancelling a registration of an item with wrong quantity (8 pieces) and re-registering the item with the correct quantity (6 pieces).	8 ×/DATE TIME 4 00 4 ERR CORR. CANCEL 6 ×/DATE TIME 4 00 4
6 The remaining amount is paid by check. Cancelling wrong subtotal discount calculation (with rate of 50%) and re-calculating the discount amount with the correct rate (5%).	SUB TOTAL 5 0 %− ERR CORR. CANCEL SUB TOTAL 5 %−
7 Cancelling wrong refund amount (•2.00) and re-registering correct amount (•2.20).	RF 2 00 2 ERR CORR. CANCEL RF 2 2 0 2
8 Getting the subtotal amount.	SUB TOTAL
9 Cancelling partially tendered cash amount (•20.00) and re-registering correct amount (•15.00).	2 0 00 CA/AMT TEND ERR CORR. CANCEL 1 5 00 CA/AMT TEND
10 The customer paid the balance due by check.	CHK

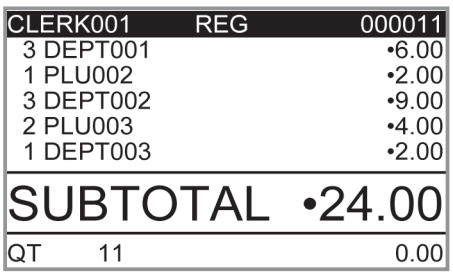
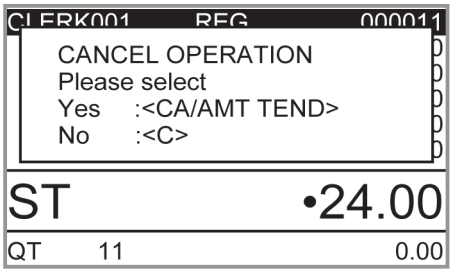
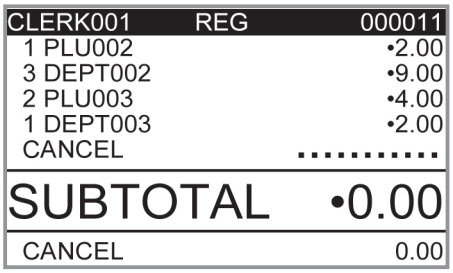
```
1 DEPT001          ·1.00
1 DEPT002          ·2.00
1 DEPT002          ·2.00
  CORR            -2.00
1 PLU0002          ·2.00
  CORR            -2.00
1 PLU0005          ·1.50
1 PLU0015          ·6.00
  CORR            -6.00
1 PLU0015         ·10.00
8 DEPT004         ·32.00
  CORR           -32.00
6 DEPT004         ·24.00
  ST              ·38.50
  50%
  %-              -19.25
  CORR            ·19.25
  ST              ·38.50
   5%
  %-               -1.93
  RF             ·····
1 DEPT             -2.00
  CORR             ·2.00
  RF             ·····
1 DEPT002          -2.20
  TL            -34.37
  CASH             ·20.00
  CORR            -20.00
  CASH             ·15.00
  CHECK            ·19.37
```

Corrected items are not printed on receipt if programmed as "Buffered receipt printing".

■ Voiding an item which has been already registered

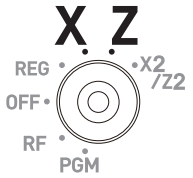
Step	Display
1 During a registration.	
2 Using [↑] or [↓] keys, select the item you have mis-registered.	
3 Press [CA/AMT TEND] key. The selected item is voided.	

■ Cancelling all items in a transaction

Step	Display
1 Press [SUB TOTAL] key after items have been registered then press [ERR CORR. CANCEL] key.	
2 Select [YES] on the pop up display.	
3 Press [CA/AMT TEND] key. The registered items are cancelled.	

Daily sales reports

At the end of the business day, you can print categorized and summarized results of the day. Reset report (Z) clears all the sales data whereas the data remains in memory by Read report (X).



NOTE **Please do not perform the Reset report (Z) printing while your store is open. It clears all the sales data.**

Step	Display

1 Turn the Mode switch to X or Z position. The display shows top display of sales reports.

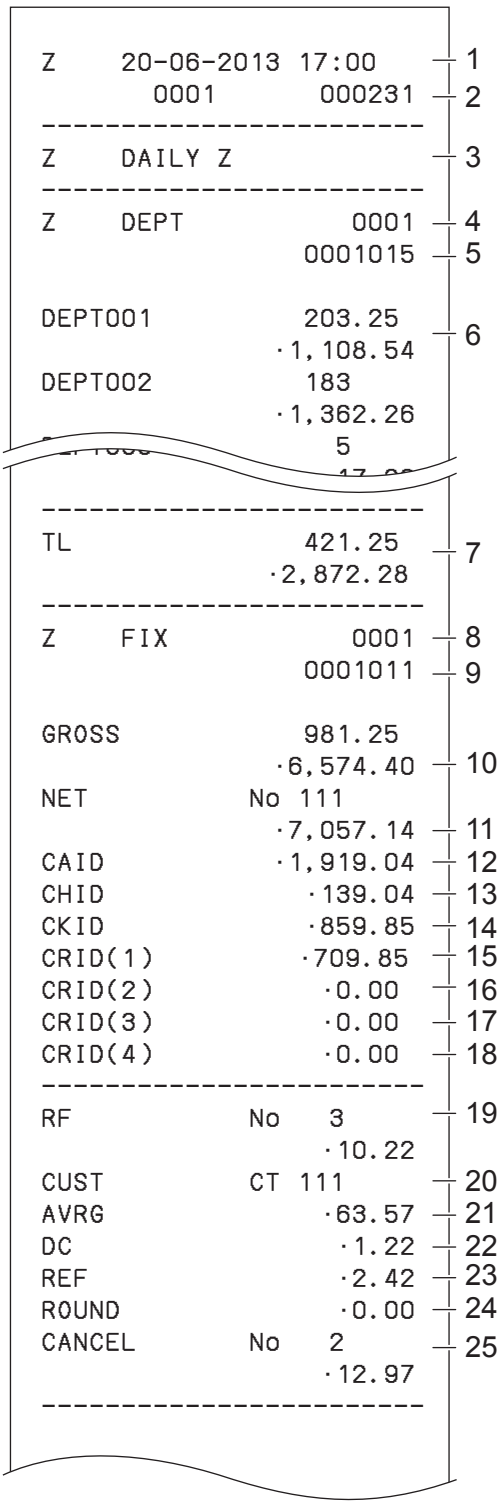
```
Z
[DAILY Z     ]
[PLU         ]
[GROUP       ]
[HOURLY      ]
[MONTHLY     ]
[OPEN CHK    ]
[EJ          ]
Select and <CA/AMT TEND>
                    0.00
```

2 Select [DAILY Z] (DAILY X when you set the Mode switch to X) and press CA/AMT TEND key. The printer prints a sales report.

Further operations:

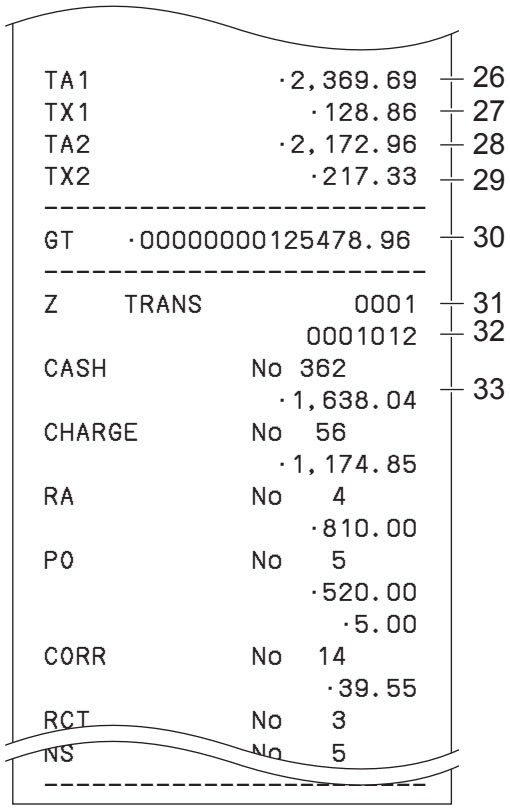
• For individual reports, please see page E-119.

Print out of daily sales report



1 Date/time
2 Machine No./consecutive No.
3 Report title
4 Department report title/reset counter
5 Report code
6 Department count/amount *1
7 Department total count/total amount
8 Fixed total report title/reset counter
9 Report code
10 Gross total *2
11 Net total *2
12 Cash in drawer *2
13 Charge in drawer *2
14 Check in drawer *2
15 Credit in drawer 1 *2
16 Credit in drawer 2 *2
17 Credit in drawer 3 *2
18 Credit in drawer 4 *2
19 Refund mode *2
20 Number of customer *2
21 Average sales per customer *2
22 Discount total *2
23 Refund key *2
24 Rounding total *2
25 Cancellation

* 1 If total amount is zero, these items will not be printed.
* 2 These items can be skipped by programming.



* 1 If total amount is zero, these items will not be printed.
* 2 These items can be skipped by programming.

26 Taxable 1 amount *2
27 Tax 1 amount *2
28 Taxable 2 amount *2
29 Tax 2 amount *2
30 Grand total *2
31 Function key report title/reset counter
32 Report code
33 Function key count/amount *1

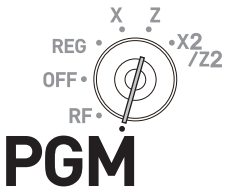
Advanced programmings and registrations

Advanced registrations E-52
Enabling clerk assignment E-52
Registrations with clerk assignment E-53
Single item cash sales E-54
Other operations E-56
Character settings E-72
Using character keyboard E-72
Using ten key pad E-73
Setting characters E-75
Setting pop messages on receipts E-76
Advanced programmings E-81
Setting symbol characters E-78
Programming detail settings E-82
Programming functions of departments and PLUs in a lump E-94
Programming department and flat PLU functions in a lump E-94
Programming PLU functions in a lump E-96
Programming functions of departments and PLUs individually E-97
Programming functions of departments individually E-97
Programming functions of PLUs individually E-99
Programming functions of transaction keys E-100
Programming further clerk functions E-107
Programming auto operation of <Arrangement> E-110
Printing programmed data E-113
To print programmed unit price or percentage (other than PLU) E-113
To print programmed characters (except PLUs) E-114
To print general programming (except PLUs) E-115
To print preset unit price of PLU E-116
To print preset characters of PLU E-117
To print PLU programmings E-117
To print key allocation program E-118
Printing various sales reports E-119
Printing various sales reports E-119
To print individual department, PLU, and Flat PLU E-123
Periodic sales report E-124
Using an SD card E-127
To format an SD card E-127
To store program data in an SD card E-128
Before you consider it as a problem E-130
Error code table E-130
When “EJ FULL” sign appears on the display E-132
In case of power failure E-132
In case the register is locked up E-132
About the low battery indicator E-133
Specifications E-134

Advanced registrations

Enabling clerk assignment

By assigning a clerk, clerk number or name will be printed on receipts. The following operation enables the register to use the clerk assignment.

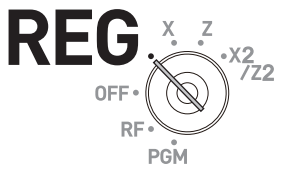


Step	Operation
1 Turn the Mode switch to PGM position. The display shows programming top menu.	
2 Using [↑] and [↓] keys, select [System Setting] and press [CA/AMT TEND] key. [System Setting] is the last column on the programming top menu and is not shown on the first screen. Keep pressing [↓] key until it appears on the screen.	
3 Enter 3 from ten key pad then press [SUB TOTAL] key. This operation sets the register in program mode.	3 [SUB TOTAL]
4 Enter 2 7 2 2 from ten key pad and press [SUB TOTAL] key. Number 2722 is the program code for clerk assignment setting.	2 7 2 2 [SUB TOTAL]
5 Enter 4 and eight zeros from the ten key pad then press [CA/AMT TEND] key. Number 400000000 is the set code to enable clerk assignment. If you wish to disable the clerk assignment feature later on, perform these steps and enter nine zeros in this step.	4 0 0 0 0 0 0 0 0 [CA/AMT TEND]
6 Press [SUB TOTAL] key to complete the setting.	[SUB TOTAL]

NOTE **You can also program fro enabling clerk operations by detail setting program. Please see page E-91 “Set code 27”.**

Registrations with clerk assignment

By signing a clerk on, the clerk name will be printed on receipts and sales reports.



Step	Operation	Printout
1 Enter the clerk number and press CLK# key.	1 CLK#	
2 Perform registration operations. The clerk name is printed on receipts and displayed on top of the display.		* commercial message * REG 20-06-2013 11:58 C01 0001 000123 — 1 1 DEPT01 T1 ·1.00
3 To sign a clerk off, enter 0 and press CLK# key. Or just press SIGN OFF key.	0 CLK#	

1: Clerk Name/Machine No./Consecutive No.

NOTE

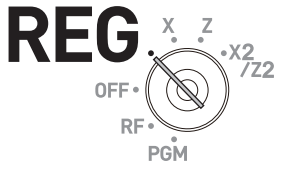
- **During a registration, another clerk can take over the transaction. Enter another clerk's clerk number during a registration and press CLK# key. The display shows the confirmation display. Select [YES] then press CA/AMT/TEND key.**
- **The clerk number is cleared when the Mode switch is turned to OFF position.**

Further operation:

You can sign on the register by clerk's secret number instead of clerk number. Also you can set characters for clerks' names. To set clerks' secret numbers and names, see page E-30.

Single item cash sales

A department key or a PLU programmed as single item sale status finalizes the transaction as soon as it is registered. This feature can be used only in cash sales. To program single item sales status see pages E-97 and E-98.



Sample operation 1: Simple single item sale

Item	Dept. 01	•1.00	Dept. 01 is programmed as single item sale and unit price is not preset.
	Quantity	1	
	Preset	Single item	
Payment	Cash	•1.00	

Step	Operation	Printout
1 Enter the unit price then press corresponding department key. The transaction is finalized immediately after the department key depression.	1 00 [1]	1 DEPT001 ·1.00 TL -1.00 CASH ·1.00

Sample operation 2: Single item sale with multiplication

Item	Dept. 01	•1.00	Selling three pieces of items of dept. 01 in which unit price •1.00 and single item sale status is preprogrammed.
	Quantity	3	
	Preset	Single item	
Payment	Cash	•3.00	

Step	Operation	Printout
1 Enter the quantity and press [×/DATE TIME] key for multiplication. ***2*** Press corresponding department key. The transaction is finalized immediately.	3 [×/DATE TIME] [1]	3 DEPT001 ·3.00 TL -3.00 CASH ·3.00

Sample operation 3: Single item sale with another item

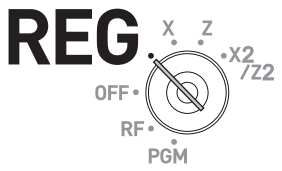
Item 1	Dept. 03	•2.00	Dept. 03 is a normal department while dept. 01 is programmed as unit price •1.00 and single item sale status.
	Quantity	1	
	Preset	Normal	
Item 2	Dept. 01	•1.00	
	Quantity	1	
	Preset	Single item	
Payment	Cash	•3.00	

Step	Operation	Printout
1 Register item 1.	2 00 3	1 DEPT003 ·2.00 1 DEPT001 ·1.00 TL -3.00 CASH ·3.00
2 Single item sale department key does not finalize the transaction as it is not single item sale.	1	
3 Press CA/AMT/TEND key to finalize the transaction.	CA/AMT/TEND	

Other operations

■Transactions with coupons

If <Coupon> function is allocated on a key, you can register items with coupons.
To allocate <Coupon> function on a key, please see page E-111.



Sample operation

Item 1	Dept. 01	•3.00	Customer paid two •0.50 coupons for item 1 and a •1.00 coupon for item 2. Amount•1.00 is preprogrammed in <Coupon> key.
	Quantity	2	
	Coupon.	•0.50 × 2	
Item 2	Dept. 03	•4.00	
	Quantity	1	
	Coupon.	•1.00 (preset)	
Payment	Cash	•8.00	

Step	Operation	Printout
1 Register the item 1.	2 [×/DATE TIME] 3 00 [1]	2 DEPT001 ·6.00 COUPON -1.00 1 DEPT003 ·4.00 COUPON -1.00 TL ·8.00 CASH ·8.00
2 Use multiplication key for the number of coupons.	2 [×/DATE TIME]	
3 Enter the amount of a coupon and press <Coupon> key.	5 0 <Coupon>	
4 Register item 2.	4 00 [3]	
5 Without entering a price of a coupon, press <Coupon> key for preset coupon price.	<Coupon>	
6 Press [CA/AMT/TEND] key to finalize the transaction.	[CA/AMT/TEND]	

NOTE **An error occurs if the register is programmed to prohibit credit balance and the result of a calculation is negative.**

■ Transactions with premium

If <Premium> function is allocated on a key, you can add premiums on items or on the subtotal. To allocate <Premium> function on a key, please see page E-111.

Sample operation

Item 1	Dept. 01	•1.00	• 10% premium is added to item1. • 15% (preprogrammed in <Premium> key) is added to the subtotal amount.
	Quantity	1	
	Premium.	10%	
Item 2	Dept. 01	•2.00	
	Quantity	3	
Subtotal	Premium.	15% (preset)	
Payment	Cash	•8.17	

Step	Operation	Printout
1 Register the item 1.	1 00 1	1 DEPT001 ·1.00 10% %+ ·0.10 3 DEPT001 ·6.00 ST ·7.10 15% %+ ·1.07 TL -8.17 CASH ·8.17
2 Enter premium rate and press <Premium> key.	1 0 <Premium>	
3 Register the item 2	3 × 2 00 1	
4 Press SUB TOTAL key.	SUB TOTAL	
5 Press <Premium> key. Preprogrammed premium rate will be added to the subtotal.	<Premium>	
6 Press CA/AMT TEND key to finalize the transaction.	CA/AMT TEND	

■VAT breakdown printing

You can force printing of VAT breakdown at the finalize stage, regardless of whether the cash register is programmed to print or skip printing of the VAT breakdown.

Please note that you need to allocate <VAT> function to a key. See page E-111.

Sample operation

Item 1	Dept. 01	•1.00	• Dept. 01 is programmed as taxable 1 and PLU 0001 is programmed as taxable 2. • Printing breakdowns of those taxes.
	Taxable status	1 (preset)	
Item 2	PLU 0001	•2.00 (preset)	
	Taxable status	2 (preset)	
Payment	Cash	•3.00	

Step	Operation
1 Register the item 1.	1 00 1
2 Register the item 2	1 PLU
3 Press VAT key to print breakdowns of taxes.	VAT
4 Press CA/AMT/TEND key to finalize the transaction.	CA/AMT/TEND

Printout

```
1 DEPT001    T1     ·1.00
1 PLU0001    T2     ·2.00
  TA1               ·0.90
  TX1               ·0.10
  TA2               ·1.90
  TX2               ·0.10
  TL              -3.00
  CASH              ·3.00
```

■ Age verification

This function prohibits to register items if the customer is under the preprogrammed age.
Please note that you need to allocate <Age verification> function to a key. See page E-111.

Sample operation

Item 1	Dept. 01	•1.00	• Item 1's age limitation is 18 and item 2's age limitation is 20. • Customer's age is 18 so he or she is able to purchase the item 1 but not the item 2.
	Quantity	1	
	Age limitation.	18	
Item 2	Dept. 03	•2.00	
	Quantity	1	
	Age limitation.	20	
Payment	Cash	•1.00	
Customer's birth date: May 03, 1995			
Present date: April 03, 2013			

Step	Operation
1 Register the item 1. The display shows "PLEASE ENTER BIRTHDATE". The item 1 is not registered yet.	1 00 1
2 Enter the customer's birth date.	0 5 0 3 1 9 9 5 <Age verification>
3 Register the item 1. The item is registered.	1 00 1
4 Register item 2. The display shows "AGE DOES NOT PERMIT PRODUCT PURCHASE" and you cannot register the item.	2 00 3
5 Finalize the transaction.	CA/AMT/TEND

Printout

```
1 DEPT001    T1     ·1.00
1 PLU0001    T2     ·2.00
  TA1               ·0.90
  TX1               ·0.10
  TA2               ·1.90
  TX2               ·0.10
  TL              -3.00
  CASH              ·3.00
```

■ Check tracking system

Check tracking system holds (temporarily finalize) a check and you can add orders later on.

Held check is cleared when the guest check receipt is finalized and printed, when new/old check operation is performed, or when the same check number is assigned.

• For <NEW CHECK>

Re-input the correct check number, or cancel the original check number, issue a receipt, then re-input the correct check number.

• For <OLD CHECK>, <NEW/OLD>

Temporarily finalize the original check number, issue a receipt, then re-input the correct check number.

■ Opening a check

Sample operation

Check number		1234	Taking new order with check number 1234.
Item 1	Dept. 01	•10.00	
	Quantity	2	
Item 2	Dept. 02	•20.00	
	Quantity	2	
Item 3	Dept. 03	•30.00	
	Quantity	1	

Step	Operation	Printout
1 Input the check number and press <New check> key.	1 2 3 4 <New check>	CHECK No. 1234 1 DEPT001 ·10.00 1 DEPT001 ·10.00 1 DEPT002 ·20.00 1 DEPT002 ·20.00 1 DEPT003 ·30.00 SRVC TL -90.00
2 Register the ordered items.	1 0 00 1 1 2 0 00 2 2 3 0 00 3	
3 Press NB key to close the check temporarily. If you wish to finalize the check immediately, use the transaction keys such as CA/AMT/TEND or CHK keys.	NB	

■ Adding orders to a held check

Sample operation

Check number		1234	Taking additional orders on the check number 1234.
Item 1	Dept. 01	•30.00	
	Quantity	1	
Item 2	Dept. 02	•10.00	
	Quantity	1	

Step	Operation	Printout
1 Input the check number and press <Old check> key.	1 2 3 4 <Old check>	CT 1 CHECK No. 1234 ST ·90.00 1 DEPT001 ·30.00 1 DEPT002 ·10.00 SRVC TL ·130.00
2 Register the additionally ordered items.	3 0 00 1 1 0 00 2	
3 Press NB key to close the check temporarily. If you wish to finalize the check immediately, use the transaction keys such as CA/AMT TEND or CHK keys.	NB	

■ Issuing a guest check

Guest check shows the balance of a held (not finalized) check.

Step	Operation	Printout
1 Input the check number and press GUEST/POST RECEIPT key.	1 2 3 4 GUEST/POST RECEIPT	CT 1 CHECK No. 1234 1 DEPT001 ·10.00 1 DEPT001 ·10.00 1 DEPT002 ·20.00 1 DEPT002 ·20.00 1 DEPT003 ·30.00 1 DEPT001 ·30.00 1 DEPT002 ·10.00 SRVC TL ·130.00

■ Closing a held check

Step	Operation	Printout
1 Input the check number and press <Old check> key.	1 2 3 4 <Old check>	
2 Enter tendered amount and press [CA/AMT/TEND] key to close the check.	1 5 0 00 [CA/AMT/TEND]	

```
                    CT    1
CHECK No. 1234

   ST              ·130.00
   TL          - 130.00
   CASH            ·150.00
   CG               ·20.00
```

■ About [NEW/OLD] key

The [NEW/OLD] key works as the same function as <New check> when a new check is opened with a check number which the same number is not existed.

When a check number is entered and if there is a held check with the same number, the [NEW/OLD] button works as the same function as <Old check> key.

■ Adding checks together

Using <Add check> key, you can add two or more held checks together.

Sample operation

Check 1	Check No.	1234	Putting check numbers 1234 and 3456 together.
	Subtotal	•20.00	
Check 2	Check No.	3456	
	Subtotal	•30.00	

Step	Operation	Printout
1 Input the check number and press <Old check> key.	1 2 3 4 <Old check>	
2 Input the number of adding check and press <Add check> key.	3 4 5 6 <Add check>	
3 Press [NB] key to close the check temporarily. If you wish to finalize the check immediately, use the transaction keys such as [CA/AMT/TEND] or [CHK] keys.	[NB]	

```
                    CT    1
CHECK No. 1234

   ST              ·20.00
   ADD CHK           3456
   ST              ·30.00
   SRVC TL·     - 50.00
```

■ About Flat PLU

If <Flat PLU> keys are allocated on the keyboard, you can use them as the same function as department keys.

Instead of using department keys [1] [2]....., use flat PLU keys [001] [002]..... and use [MENU SHIFT] key instead of <Dept. no./Dept. shift> key.

■ Text recall

If <Text recall> key is allocated, you can recall a stored text and print it on receipts or journals.

Sample operation

Check 1	Check No.	1234	Putting check numbers 1234 and 3456 together.
	Subtotal	•20.00	
Check 2	Check No.	3456	
	Subtotal	•30.00	

Step	Operation	Printout
1 Register the item 1.	[4] [6] [00] [1]	
2 Recall text 1.	[1] <Text recal>	
3 Register the item 2.	[1] [0] [00] [2]	
4 Recall text 2.	[2] <Text recal>	
5 Finalize the transaction.	[SUB TOTAL] [CA/AMT TEND]	

```
   CT                  3
 1 DEPT001        ·46.00
MEDIUM SIZE
 1 DEPT002        ·10.00
SMALL SIZE
   TL        ·56.00
   CASH           ·56.00
```

■ Inputting number of customers

If <Customer number> function is allocated on the keyboard, you can print the number of customers.

Sample operation

Item 1	Unit price	•15.00	Printing number of customers on a receipt/journal.
	Dept.	01	
Item 2	Unit price	•5.00	
	Dept.	02	
Number of customers		2	
Payment	Cash	•20.00	

Step	Operation	Printout
1 Input the number of customers and press <Customer number> key.	2 <Customer number>	CT 2 1 DEPT001 ·15.00 1 DEPT002 ·5.00 TL -20.00 CASH ·20.00
2 Register the items.	1 5 00 1 5 00 2	
3 Press SUB TOTAL key.	SUB TOTAL	
4 Finalize the transaction.	CA/AMT/TEND	

■ Abount clerk interrupt function

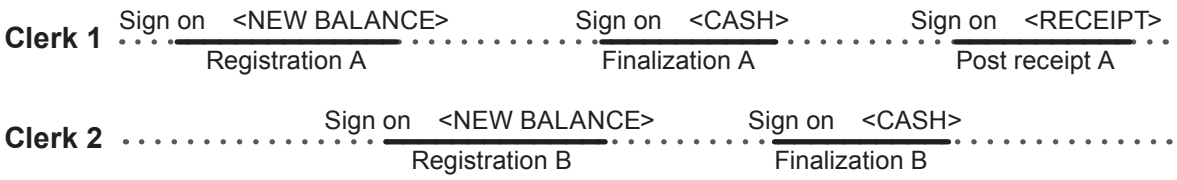
There are two types of clerk interrupt function, PROCEDURE 1 and PROCEDURE 2 illustrated below.

In PROCEDURE 1, each clerk has a unique clerk interrupt buffer (memory), and the clerk interrupt function gives each individual clerk the ability to perform an independent registration operations. In this case, each clerk is individually linked to a unique clerk interrupt buffer.

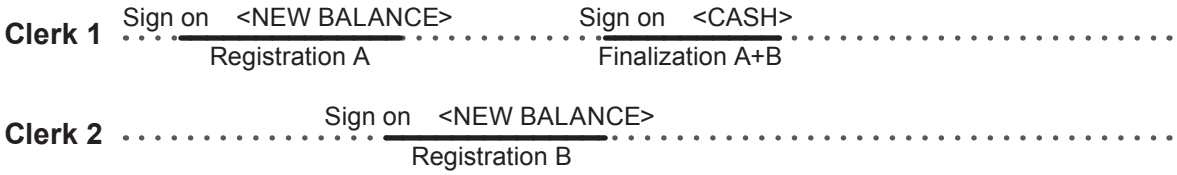
In PROCEDURE 2, multiple clerks use the same clerk interrupt buffer, and single clerk interrupt operation (clerk change during registration) can be performed even when any registration is in progress. In this case, multiple clerks are linked to a single clerk interrupt buffer.

In the REG and RF modes, clerks can be changed while a transaction is in progress so that multiple clerks can operate single register simultaneously. For example, if clerk 1 is registering a transaction, clerk 2 can use the same machine to register a different transaction. Clerk 1 can continue the original registration from the interrupted point.

PROCEDURE 1



PROCEDURE 2



NOTE

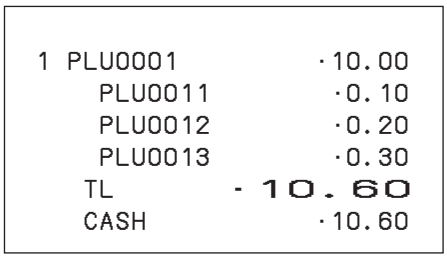
- **The register must be programmed to allow the clerk interrupt function.**
- **You cannot use the clerk interrupt function on a register together with the check tracking system.**

■ Condiment/preparation PLUs

By programming, you can force the register to input condiment PLU or preparation PLU together with main PLU. For the programming, please see pages E-97 and E-98.

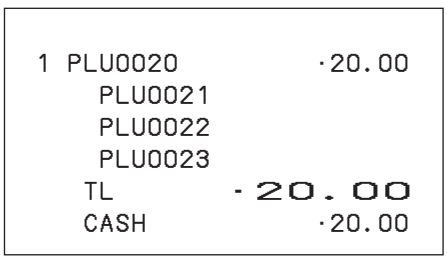
Sample operation 1

Main PLU	PLU0001	•10.00	Registering main PLU0001 with condiment PLUs 0011, 0012, and 0013..
Condiment PLUs	PLU0011	•0.10	
	PLU0012	•0.20	
	PLU0013	•0.30	
Payment	Cash	•10.60	

Step	Operation	Printout
1 Register the main PLU item.	1 PLU	
2 Register condiment PLUs. If a condiment PLU is not registered, an error occurs.	1 1 PLU 1 2 PLU 1 3 PLU	
3 Finalize the transaction.	CA/AMT/TEND	

Sample operation 2

Main PLU	PLU0020	•20.00	Registering main PLU0020 with condiment PLUs 0021, 0022, and 0023.
Condiment PLUs	PLU0021	•0.00	
	PLU0022	•0.00	
	PLU0023	•0.00	
Payment	Cash	•20.00	

Step	Operation	Printout
1 Register the main PLU item.	2 0 PLU	
2 Register preparation PLUs. If a preparation PLU is not registered, an error occurs.	2 1 PLU 2 2 PLU 2 3 PLU	
3 Finalize the transaction.	CA/AMT/TEND	

■ Set menu

When a set menu is registered, the register stores the sales data of the menu but also stores sales data (amount, quantity) of items in the set in respective PLU memory.

Sample operation

Set menu	PLU0035	•5.00	Registering a set menu. Items in the set will be registered in the respective PLU automatically.
Items in the set	PLU0001	-	
	PLU0002	-	
	PLU0003	-	
	PLU0004	-	
Payment	Cash	•5.00	

Step	Operation	Printout
1 Register the set menu.	3 5 PLU	
2 Finalize the transaction.	CA/AMT TEND	1 PLU0035 ·5.00 PLU0001 PLU0002 PLU0003 PLU0004 TL -5.00 CASH ·5.00

■ Tips

By usein allocated <Tips> key, you can register and print the amount of tips.

Sample operation

Item 1	Unit price	•3.00	A customer gave •0.80 tip to the clerk.
	Dept.	01	
Item 2	Unit price	•5.00	
	Dept.	02	
Tip		•0.80	
Payment	Cash	•10.00	

Step	Operation	Printout
1 Register items.	3 00 1 5 00 2	
2 Press SUB TOTAL key.	SUB TOTAL	
3 Input the amount of the tip..	8 0 <Tips>	
4 Finalize the transaction.	CA/AMT TEND	1 DEPT001 ·3.00 1 DEPT002 ·5.00 TIP ·0.80 TL -8.80 CASH ·10.00 CG ·1.20

■ Registrations with <Arrangement> key

By using allocated <Arrangement> key, the register performs programmed functions automatically.

Sample operation 1

Arrangement 1			
Item 1	PLU0001	•8.00 (preset)	Arrangement 1 is programmed as selling one PLU0001 (•8.00 preset) and PLU0002 (•5.00 preset) and paid in exact amount of cash.
	Quantity	1	
Item 2	PLU0002	•5.00 (preset)	
	Quantity	1	
Payment	Cash	•13.00	

Step	Operation	Printout
1 Just press <Arrangement> key.	<Arrangement>	1 PLU0001 ·8.00 1 PLU0002 ·5.00 TL -13.00 CASH ·13.00

Sample operation 2

Arrangement 5			
Item 1	PLU0001	•1.00	Arrangement 5 is programmed as selling one Dept. 01 item with •1.00, one Dept. 02 item with •2.00 and paid in exact amount of cash..
	Quantity	1	
Item 2	PLU0002	•2.00	
	Quantity	1	
Payment	Cash	•3.00	

Step	Operation	Printout
1 Enter arrangement number and press <Arrangement> key.	5 <Arrangement>	1 DEPT001 ·1.00 1 DEPT002 ·2.00 TL -3.00 CASH ·3.00

■ To add a certain amount

By using allocated <Addition (plus)> key, you can add a certain amount on a transaction.

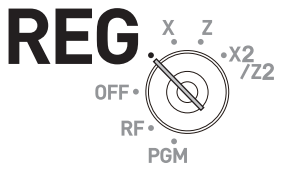
Sample operation

Item 1	Dept. 01	•1.00	• Adding •0.10 to the item 1. • Adding 3 × •0.20 (preset amount) to item 2.
	Quantity	1	
	Add	•0.10	
Item 2	Dept. 01	•2.00	
	Quantity	3	
	Add	3 × •0.20 (preset)	
Payment	Cash	•7.70	

Step	Operation	Printout
1 Register the item 1.	1 00 1	1 DEPT001 ·1.00 + ·0.10 3 DEPT001 ·6.00 + ·0.60 TL -7.70 CASH ·7.70
2 Enter the adding amount and press <Addition> key.	1 0 <Addition>	
3 Register the item 2.	3 ×/DATE TIME 2 00 1	
4 Enter the adding amount using multiplication key and press <Addition> key.	3 ×/DATE TIME <Addition>	
5 Finalize the transaction.	CA/AMT TEND	

■ To transact in Euro

By using [PD] key, the register allows you to register items in the local currency and transact in Euro or vice versa. To set the currency rate between Euro and local currency, please see page E-91.



Sample Operation 1

Item	Unit price	•6.00	Main currency: Local Sub currency: Euro A •6.00 item is sold and the customer paid in Euro.
	Quantity	1	
	Dept.	01	
Exchange rate		€1.00 = •0.50	
Payment		€15.00	

Step	Operation	Printout
1 Register the item in local currency.	6 00 1	1 DEPT001 T1 ·6.00 TL -6.00 (€12.00) EURO money CASH €15.00 CASH (·7.50) CG ·1.50 (€3.00)
2 Press [PO] key. The register calculates the price in Euro.	PO	
3 Press [SUB TOTAL] key to indicate the price in Euro.	SUB TOTAL	
4 Press [PO] key before entering tendered amount in Euro.	PO	
5 Enter the tendered amount in Euro.	1 5 00	
6 Press [CA/AMT TEND] key. The display indicates the change in local currency.	CA/AMT TEND	

Sample Operation 2

Item	Unit price	€12.00	Main currency: Euro Sub currency: Local A €12.00 item is sold and the customer paid in local currency.
	Quantity	1	
	Dept.	01	
Exchange rate		•1.00 = €2.00	
Payment		•10.00	

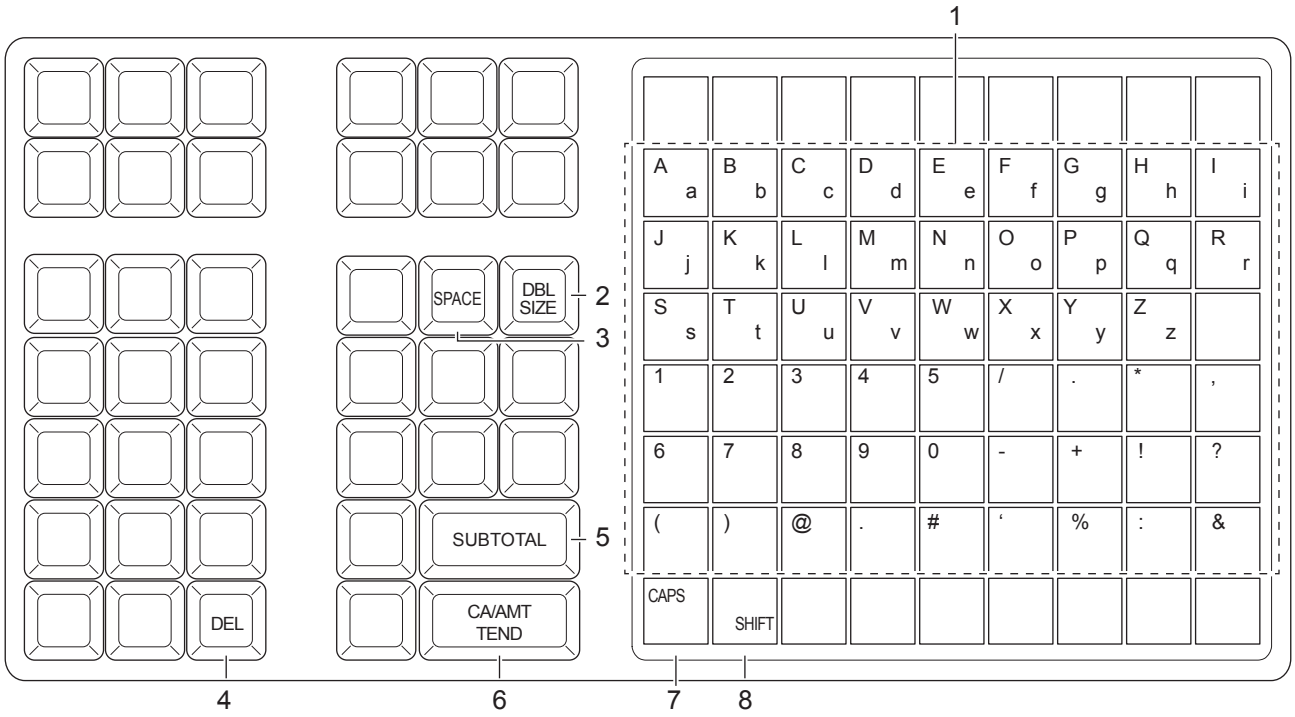
Step	Operation	Printout
1 Register the item in Euro.	1 2 00 1	1 DEPT001 €12.00 TL €12.00 (·6.00) LOCAL money CASH ·10.00 CASH (€20.00) CG €8.00 (·4.00)
2 Press PO key. The register calculates the price in local currency.	PO	
3 Press SUB TOTAL key to indicate the price in local currency.	SUB TOTAL	
4 Press PO key before entering tendered amount in local currency.	PO	
5 Enter the tendered amount in local currency.	1 0 00	
6 Press CA/AMT TEND key. The display indicates the change in Euro.	CA/AMT TEND	

Character settings

This chapter explains how you can program department or PLU descriptions, store messages, key descriptions, report title, total descriptions (such as gross total, net total etc.) and clerk names.
There are two ways to program characters which are using character keyboard and using multi typing of ten key.

Using character keyboard

■ Character keyboard



1	**Alphabet keys**	Used to input characters.
2	**Double size letter key**	Assigns the next input character to be double sized. After setting a double sized character, press this key again to back to normal size.
3	**Space key**	Sets a space.
4	**Delete key**	Clears the last input character.
5	**Program end key**	Terminates the character programming.
6	**Character enter key**	Registers the programmed characters.
7	**CAPS key**	Pressing this key shifts a character from the lowercase letter to upper case letter.
8	**Shift key**	Pressing this key shifts the character from the uppercase letter to lower case letter.

Example: To set “Apple Juice”

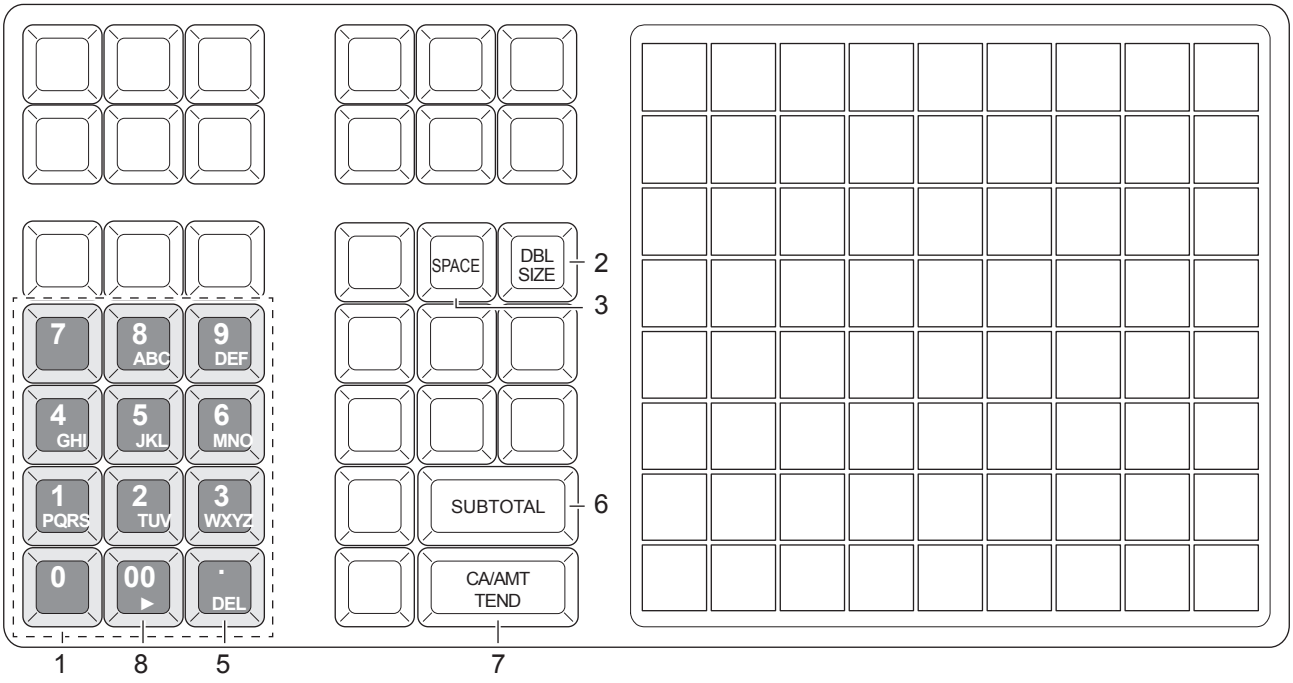
A p p l e J u i c e

<DBL> <A> <DBL> <Shift> <p> <p> <l> <e> <Space> <CAPS> <J> <Shift> <u> <i> <c> <e> .

Using ten key pad

To set characters by using ten key, you need to press one of the ten key repeatedly until desired character appears on the display.

■ Multi typing keyboard



1 **Alphabet keys** Hitting one of those keys repeatedly changes characters in the order shown in the table below.

8	A → B → C → a → b → c → 8 → Ä → Å → Æ → Á → Â → À → Ã → Ç → â → ä → à → å → æ → á → ã → ç returns to the beginning
9	D → E → F → d → e → f → 9 → ﬂ → É → Ê → Ë → È → ð → é → ê → ë → è → ƒ returns to the beginning
4	G → H → I → g → h → i → 4 → Í → Î → Ï → I → Ì → Ï → Î → Ì → í → í returns to the beginning
5	J → K → L → j → k → l → 5 returns to the beginning
6	M → N → O → m → n → o → 6 → Ñ → Ö → ø → Ó → Ô → Ò → Õ → ñ → ô → ö → ò → ϕ → ó → õ returns to the beginning
1	P → Q → R → S → p → q → r → s → 1 → þ → Þ → ß returns to the beginning
2	T → U → V → t → u → v → 2 → TEL → Ü → Ú → Û → Ù → ü → û → ù → ú → µ returns to the beginning
3	W → X → Y → Z → w → x → y → z → 3 → ý → ÿ → Ý returns to the beginning
0	O
00	(Right cursor)
.	(Delete)
7	7 → @ → - → / → : → ! → ? → ~ → (→) → * → # → + → , → ^ → ; → < → → = → > → $ → ¥ → % & → [→] → ‘ → { → ¦ → } → • → “ → . → \ → _ → ` → £ → × → ¿ → ¡ → € → § → space returns to the beginning

2	**Double size letter key**	Assigns the next input character to be double sized. After setting a double sized character, press this key again for normal size.
3	**Space key**	Sets a space.
4	**Clear key**	Clears all the characters.
5	**Delete key**	Clears the last input character.
6	**Program end key**	Terminates the character programming.
7	**Character enter key**	Registers the programmed characters.
8	**Right cursor key**	Moves the cursor to the right.

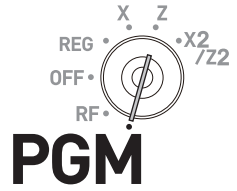
Example: To set CLASS a

C L A S S a

<DBL> 8 8 8 5 5 5 <DBL> 8 1 1 1 1 00 1 1 1 1 <Space> 8 8 8 8

Setting characters

The following explanation shows how you can set a name in a PLU. You can also set names to departments, function keys ([%−], [—]), and clerks by the same method.



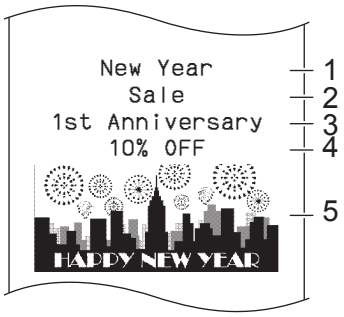
Sample Operation

To set “MILK” to PLU0001 by using ten key pad.

Step	Display
1 Turn the Mode switch to PGM position. The display shows the program top menu.	ClerkA PGM [DEPT Setting] ▲ [PLU Setting] [Key Setting] [Date Setting] [Clerk Setting] [Message Setting] [POP Setting] [Tax Setting] ▼ Select & <CA/AMT TEND>
2 Using [↓] or [↑] keys, select [PLU Setting] and press [CA/AMT TEND] key. Enter the PLU number in which you wish to set characters and press [CA/AMT TEND] key.	PLU Setting Input PLU No. PLU No. [ ] Select & <CA/AMT TEND> or Cancel <SUB TOTAL>
3 On the next screen, make sure that the PLU number you wish to set is selected. If you wish to change it, use [↓] or [↑] keys. Press [CA/AMT TEND] key.	PLU Setting 0001. PLU0001 ▲ 0002. PLU0002 0003. PLU0003 0004. PLU0004 0005. PLU0005 0006. PLU0006 0007. PLU0007 Select & <CA/AMT TEND> or Cancel <SUB TOTAL>
4 Select the top column of the [PLU Setting screen] and input the character you wish to set. In this example, 6 4 4 4 5 5 5 00 5 5 (for MILK). Then press [CA/AMT TEND] key to complete the setting.	PLU Setting 0001. [ ] Unit Price [•0.00] Taxable Status[NON TAX] Group Link [00] DEPT Link [000] Open PLU [NO] Select & <CA/AMT TEND> or Cancel <SUB TOTAL>

Setting pop messages on receipts

You can set pop messages printed on receipts.

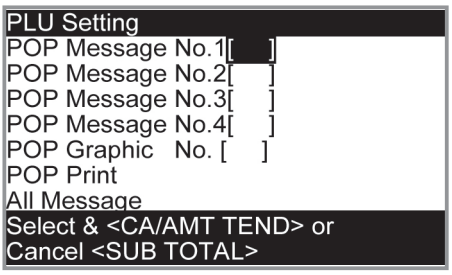


1 Pop message 1st. line
2 Pop message 2nd. line
3 Pop message 3rd. line
4 Pop message 4th. line
5 Pop illustration

■ To set pop message

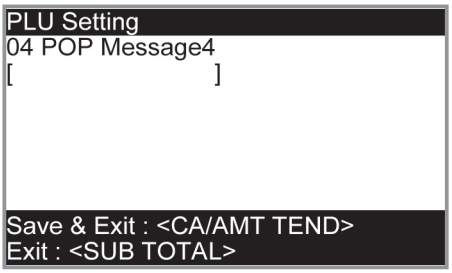
Step | **Display**

1 Turn the Mode switch to PGM position and select [POP Setting] then press [CA/AMT TEND] key.

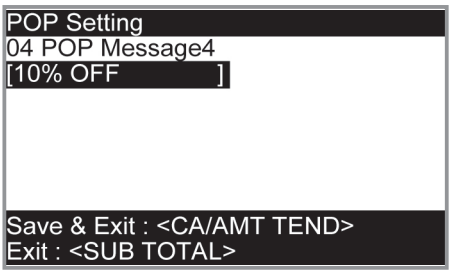


2 Select [All Message] and press [CA/AMT TEND] key. Preset messages will be printed.

3 Select the line number of the pop message and press [CA/AMT TEND] key.



4 Referring printed preset messages, input the message number you wish to set and press [CA/AMT TEND] key.



5 Repeat the steps 3 and 4 for other message lines.

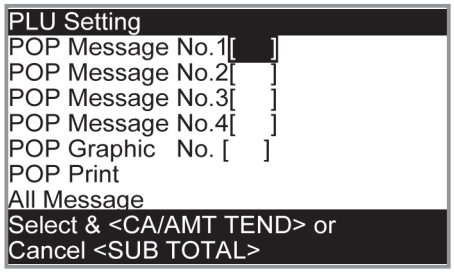
■ To set other messages

To set logo message, commercial message, and bottom message (refer to page E-23 “Receipt sample”), perform the same procedure as the above operations except selecting [Message Setting] in step 1.

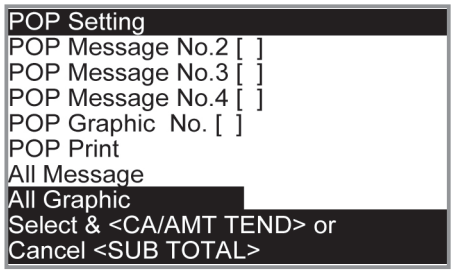
■ To set pop illustration

Step	Display

1 Turn the Mode switch to PGM position and select [POP Setting] then press CA/AMT TEND key.

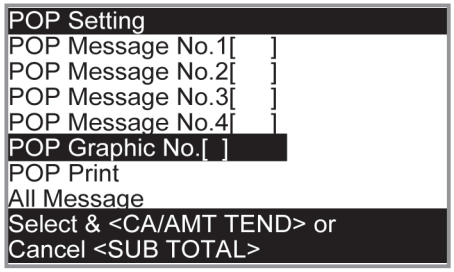


2 Select [All Graphic] and press CA/AMT TEND key. The printer prints preset pop illustrations.

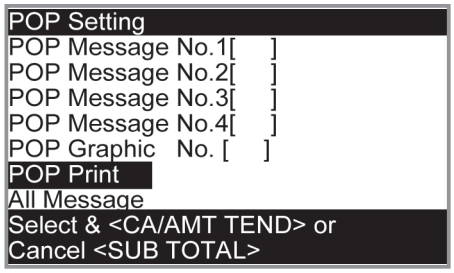


3 From the printout, select an illustration you wish to print on receipts.

4 Select [POP Graphic No. [ ]] and input the illustration number from ten key pad. Then press CA/AMT TEND key.

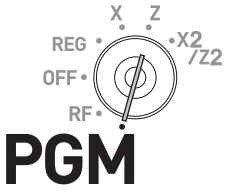


5 Select [POP Print] and press CA/AMT TEND key. Make sure that the illustration you select comes out from the printer.



Setting symbol characters

You can change the symbols or titles of sales reports for example, printing “CASH IN DRW” on the sales reports instead of “CAID” for cash amount in drawer.



Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key. [System Setting] is the last column on the programming top menu and is not shown on the first screen. Keep pressing [↓] key until it appears on the screen.	[↓] ▪▪▪▪▪ [↓] [CA/AMT/TEND]
2 Enter 2 and press [SUB TOTAL] key to set the register in the character setting mode.	2 [SUB TOTAL]
3 Referring the following tables, enter two-digit memory number and program code. Then press [SUB TOTAL] key.	□□ □□ [SUB TOTAL] [Memory No.](Program code)
4 Referring the character entry methods on pages E-72 and E-73, input characters you wish to set and press [CA/AMT/TEND] key.	□□ ▪▪▪▪▪ □□ [CA/AMT/TEND] (Character keys)
5 If you wish to set in the next memory number, repeat step 4. If you wish to set other memory number than the next number, repeat steps 3 and 4.	
6 Press [SUB TOTAL] key to complete the setting.	[SUB TOTAL]

Example: To set “CASH IN DRW” in memory number 3

Press 2 [SUB TOTAL] 0 3 0 1 [C][A][S][H][SPACE][I][N][SPACE][D][R][W] [CA/AMT/TEND] [SUB TOTAL]

Sales report symbols

Memory No.	Program code	Contents	Default character	Memo for your settings
01	01	Gross total	GROSS	
02		Net total	NET	
03		Cash in drawer	CAID	
04		Charge in drawer	CHID	
05		Check in drawer	CKID	
06		Credit 1 in drawer	CRID(1)	
07		Credit 2 in drawer	CRID(2)	
08		Credit 3 in drawer	CRID(3)	
09		Credit 4 in drawer	CRID(4)	
10		Cash in drawer for sub currency	CAID2	
11		Charge in drawer for sub currency	CHID2	
12		Check in drawer for sub currency	CKID2	
17		Refund mode total	RF	
18		Customer count	CUST	
19		Average sales per customer	AVER	
20		Clerk commission 1 total	C-1	
21		Clerk commission 2 total	C-2	
22		Foreign currency cash in drawer	CECA1	
23		Foreign currency check in drawer	CECK1	
26		Reduction	DC	
27		Coupon	COUPON	
28		Item return	REF	
29		Rounding for sub currency	ROUND	
30		Rounding	ROUND	
31		Cancellation	CANCEL	
33		Taxable amount 1	TA1	
34		Tax 1	TX1	
35		Taxable amount 2	TA2	
36		Tax 2	TX2	
37		Taxable amount 3	TA3	
38		Tax 3	TX3	
39		Taxable amount 4	TA4	
40		Tax 4	TX4	
41		Non taxable amount	NON TAX	

Other symbols

Numbers in ( ) are digits to be used.

Memory No.	Program code	Contents	Default character
01	23	main currency symbol (2), @ (2), No.(2), split pricing (2), not used (4), sub currency symbol (2)	· @No/ **
02		No. of item sold (2), No. of customers (2), not used (6), multiplication display(2)	NoCT@ LB *QT
03		multiplication symbol (6), not used (6)	X BUSY
04		taxable symbols (3 each)	T1 T1 T3 T4 T5
06		taxable symbols (3 each)	T12T13T14 T23
08		foreign currency (2 each) not used (8)	* * * * *
09		mode symbols (4 each) (REG, RF, not used)	REG RF R
10		mode symbols (4 each) (PGM, Daily X, Daily Z, Periodic)	P X Z XZ
11		mode symbols (4 each) (not used, PGM read)	TRG PGMX
12		decimal (1) (for amount/ q'ty), separator (main/ sub 1 each), not used (3), square (7)	...., X
13		am, pm (3each) ST symbol on main display (2)	AM PMST
16		subtotal symbol on main display (16)	ST
17		subtotal symbol for discount/premium (16)	ST
18		post receipt total symbol (16)	TL
19		change symbol (16)	CG
01	20	grand total symbol (16)	GT

Title of sales reports

Memory No.	Program code	Contents	Default character	Memo for your settings
01	24	Fixed total report title	FIX	
02		Transaction key report title	TRANS	
03		PLU sales report title	PLU	
04		Department sales report title	DEPT	
05		Group sales report title	GROUP	
06		Clerk sales report title	CASHIER	
08		Hourly sales report title	HOURLY	
09		Monthly sales report title	MONTHLY	
16		Flash report title	FLASH	

Text recall character

Memory No.	Program code	Contents	Default character	Memo for your settings
01	39	Text recall character 01		
02		Text recall character 02		
03		Text recall character 03		
04		Text recall character 04		

Advanced programmings

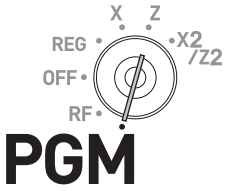
This section explains how you can program detail settings of the register such as setting register's specific number, whether to reset consecutive number on the receipt after a Reset (Z) report or not, whether to print taxable amounts on receipts or not, etc.

The following table lists what can be programmed in this settings.

Set code	Settings	No. of digit to be set
02	Cash register's unit number	4
03	Whether to reset consecutive number after Reset (Z) report or not	8
04	Tax and rounding systems	10
05	Contents of receipt/journal print	10
06	Calculation and operation methods	10
08	Contents of sales reports	10
10	Whether to print taxable amount or not	10
14	Currency exchange	8
15	Printing methods of sales reports	10
16	Printing methods of grand total	7
17	Date/time printing on journals/receipts	4
18	Print control for guest receipt	6
19	Double height character printing on receipts	7
21	Printing methods of messages	10
25	Entry restriction	1
26	Check tracking	7
27	Clerk operation selections	9
28	Euro settings 1	10
29	Euro settings 2	10
30	Receipt message/Compressed journal print selection	5
34	Backlight on/off selection	4

Programming detail settings

To program the detail settings of the register, please follow the operations shown below.



Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key. [System Setting] is the last column on the programming top menu and is not shown on the first screen. Keep pressing [↓] key until it appears on the screen.	[↓] ▪▪▪▪▪ [↓] [CA/AMT/TEND]
2 Enter 3 and press [SUB TOTAL] key to set the register in the programming mode.	3 [SUB TOTAL]
3 Referring the following tables, enter two-digit set code you wish to program followed by two 2s. "22" is the identification code for programming detail settings.	[ ][ ]2 2 [set code] For example, if you wish to program tax system: 0 4 2 2
4 Referring the tables below, enter program code of up to 10 digits and press [CA/AMT/TEND] key.	[ ][ ] ▪▪▪▪▪ [ ][ ] [CA/AMT/TEND] [Program code (up to 10 digits)]
5 Press [SUB TOTAL] key to complete the program.	[SUB TOTAL]

Set code 02 (Machine number)

Description	Selection	Program code	Default value
Machine number	Machine number	[ ][ ][ ][ ] D4 D3 D2 D1	0 0 0 0 D4 D3 D2 D1

Example: To set the register's specific unit number 1234.

Press 3 [SUB TOTAL] 0 2 2 2 [SUB TOTAL] 1 2 3 4 [CA/AMT/TEND] [SUB TOTAL]

Set code 03 (Whether to reset consecutive number after Reset (Z) report or not)

Description	Selection	Program code	Default value
Reset consecutive number after daily reset report is issued.	Yes = 0 No = 1	[ ] D8	0 D8
Must be "0000000" (seven zeros)		[ ] to [ ] D7 to D1	0 to 0 D7 to D1

Example: Not resetting the consecutive number after Z report printing.

Press 3 [SUB TOTAL] 0 3 2 2 [SUB TOTAL] 1 0 0 0 0 0 0 0 [CA/AMT/TEND] [SUB TOTAL]

Set code 04 (Tax and rounding systems)

Description	Selection	Program code	Initial value
Apply rounding for registration: No rounding = 0, IF1 = 1, IF2 = 2, Danish = 3, Singaporean = 5, Finnish = 6, Australian = 7, South African = 8, Other roundings = 9 (Refer to D1) See the following tables for IF1 and IF2	0 to 9	[ ] D10	[0] D10
Tax system: Single tax system (1 ~ 4) = 0, Singaporean tax system = 3	0 or 3	[ ] D9	[0] D9
Must be “0000000”		[ ][ ] D8 to D2	[0][0] D8 to D2
Other rounding: New Zealander (A) = 0, New Zealander (B) = 1 , Malaysian = 2, Norwegian/Czech = 3 (D10 must be set to “9”.)	0 to 3	[ ] D1	[0] D1

Rounding systems for each country

IF 1 rounding	
Last digit of ST	Result
0 to 2	0
3 to 7	5
8 to 9	10

IF 2 rounding	
Last digit of ST	Result
0 to 4	0
5 to 9	10

Danish rounding	
Last 2 digits of ST/CA CG	Result
00 to 24	00
25 to 74	50
75 to 99	100

Singaporean rounding	
Last digit of item, %- REG	Result
0 to 2	0
3 to 7	5
8 to 9	10

Finnish rounding	
Last digit of ST/CA CG	Result
0 to 2	0
3 to 7	5
8 to 9	10

Australian rounding	
Last digit of ST/CA CG	Result
0 to 2	0
3 to 7	5
8 to 9	10

South African rounding	
Last digit of ST	Result
0 to 4	0
5 to 9	5

New Zealander (A/B) rounding	
Last digit of ST/CA CG	Result
0 to 4/5	0
5/6 to 9	10

Malaysian rounding	
Last digit of ST/ CA CG	Result
0 to 2	0
3 to 7	5
8 to 9	10

Norwegian/Czech rounding	
Last digit of ST	Result
00 to 49	00
50 to 99	100

Set code 05 (Receipt printing selections)

Description		Selection	Program code	Default value
Print total line during finalization.	a	Yes = 0 No = 1	(a+b) D10	0 (a+b) D10
24- hour system (0) or 12 -hour system (2)	b	Select 0 or 2		
Buffered receipt print (enables key operations during printing)		No = 0 Yes = 2	D9	0 D9
Skip item prints on journal. (journal skip)		No = 0 Yes = 1	D8	0 D8
Must be “000”			0 0 0 D7 D6 D5	0 0 0 D7 D6 D5
Print number of item sold. (item counter)	a	No = 0 Yes = 1	(a+b) D4	0 (a+b) D4
Print tax symbols.	b	Yes = 0 No = 2		
Must be “00”			0 0 D3 D2	0 0 D3 D2
Print number of customers		Yes = 0 No = 2	D1	0 D1

Example:

- On a receipt, not printing total amount (a = 1), printing 12 -hour system (b = 2): D10 = 3 (1 + 2).
- Buffered receipt printing: D9 = 2.
- Not printing items on journal (journal skip): D8 = 1.
- D7 – D5 must be 000.
- Printing number of items (a = 1), not printing tax symbols (b = 2): D4 = 3 (1 + 2).
- D3 – D2 must be 00.
- Not printing number of customers: D1 = 2.

Press 3 SUB TOTAL 0 5 2 2 SUB TOTAL 3 2 1 0 0 0 3 0 0 2 CA/AMT TEND SUB TOTAL

Set code 06 (Calculation and operation methods)

Description		Selection	Program code	Default value
Succeeds the taxable status and commission status of previous item when +/ - operation is performed.	a	Yes = 0 No = 1	☐ (a+b) D10	0 (a+b) D10
Force money declarations before read(X) or reset (Z) reports operations.	b	No = 0 Yes = 4		
Force to press SUB TOTAL key before finalization.	a	No = 0 Yes = 1	☐ (a+b+c) D9	0 (a+b+c) D9
Allow finalization when subtotal amount is zero or minus.	b	Yes = 0 No = 2		
Allow multiple refund operation.	c	Yes = 0 No = 4		
Affects the results of +/ -. %+/ %- calculations to items. (Net totaling)		No = 0 Yes = 1	☐ D8	0 D8
Include commission in net total.		No = 0 Yes = 2	☐ D7	0 D7
Clears the key buffer when a receipt is issued. (REG mode only)	a	No = 0 Yes = 1	☐ (a+b+c) D6	0 (a+b+c) D6
Sounds key catch tone.	b	Yes = 0 No = 2		
Allow to issue post receipt, even the original one is issued.	c	No = 0 Yes = 4		
Must be “00”			0 0 D5 D4	0 0 D5 D4
Numeric entry of flat PLU (1): Treats as amount override (2): Treats as quantity extention		① = 0 ② = 2	☐ D3	☐ D3
Must be “00”			0 0 D2 D1	0 0 D2 D1

Example:

- A +/- operation not succeeds taxable status and commission status (a = 1), amount in drawer should be declared before Z reporting (b = 4): D10 = 5 (1 + 4).
- SUB TOTAL key must always be pressed for a finalization (a = 1), not allowing zero or minus subtotal in a transaction (b = 2), not allowing multiple refund operations (c = 4): D9 = 7 (1 + 2 + 3).
- Affecting the result of +/-, %+/%- to an item: D8 = 1.
- Not including commission in net total: D7 = 2.
- Clearing key buffer when a receipt is issued (a = 1), not sounding key catch tone (b = 2), issues post receipts even the original receipt is issued (c = 4): D6 = 7 (1 + 2 + 3).
- D5 – D4 must be 00.
- Numeral entry of flat PLU is processed as quantity. D3 = 2.
- D1 and D2 must be 00.

Press 3 SUB TOTAL 0 6 2 2 SUB TOTAL 5 7 1 2 7 0 0 2 0 0 CA/AMT TEND SUB TOTAL

Set code 08 (Fixed total print control)

Description		Selection	Program code	Default value
Print gross sales total (GROSS) on fixed total report.	a	Yes = 0 No = 1	☐ (a+b+c) D10	0 (a+b+c) D10
Print net sales total (NET) on fixed total report.	b	Yes = 0 No = 2		
Print cash in drawer (CAID) on fixed total report.	c	Yes = 0 No = 4		
Print charge in drawer (CHID) on fixed total report.		Yes = 0 No = 2	☐ D9	0 D9
Print check in drawer (CKID) on fixed total report.	a	Yes = 0 No = 1	☐ (a+b) D8	0 (a+b) D8
Print credit in drawer on (CRID(1) ~ (4)) on fixed total report.	b	Yes = 0 No = 4		
Must be “0”			0 D7	0 D7
Print RF mode total (RF) on fixed total report.		Yes = 0 No = 4	☐ D6	0 D6
Print the net number of customers (CUST) on fixed total report.	a	Yes = 0 No = 1	☐ (a+b) D5	2 (a+b) D5
Print average sales per customer (AVER) on fixed total report.	b	Yes = 0 No = 2		
Must be “0”	c		0 D4	0 D4
Print commission 1 total (C-1) on fixed total report.	a	Yes = 0 No = 1	☐ (a+b+c) D3	7 (a+b+c) D3
Print commission 2 total (C-2) on fixed total report.	b	Yes = 0 No = 2		
Print foreign currency cash in drawer (CECA1, CECA2) and check in drawer (CECK1, CECK2) on fixed total report.	c	Yes = 0 No = 4		
Print <MINUS>, <COUPON>,<%-> and mix & match operation net total (DC) on fixed total report.	a	Yes = 0 No = 1	☐ (a+b) D2	3 (a+b) D2
Print total number of <REFUND> operation (RF) on fixed total report.	b	Yes = 0 No = 2		
Print nontaxable totals (NON TAX) on fixed total report.	a	Yes = 0 No = 1	☐ (a+b+c) D1	3 (a+b+c) D1
Print rounded fractions (ROUND) on fixed total report.	b	Yes = 0 No = 2		
Print number of cancellation (CANCEL) on fixed total report.	c	Yes = 0 No = 4		

Example:

- On the fixed total report, not printing gross sales total (a = 1), not printing net sales total (b = 2), not printing cash in drawer. (c = 4): D10 = 7 (1 + 2 +4).
- Not printing amount in drawer on fixed total report: D9 = 1.
- On fixed total report, not printing check amount in drawer (a = 1), not printing credit amount in drawer (b = 4): D8 = 5 (1 + 4).
- D7 must be always 0.
- Not printing refunded amount in RF mode on fixed total report: D6 = 4.
- Not printing total number of customers on fixed total report (a = 1), not printing average sales amount per customer (b = 2): D5 = 5 (1 + 4).
- D4 must be always 0.
- On fixed total report, not printing commission 1 amount (a = 1), not printing commission 2 amount (b = 2), not printing amount of foreign currency cash and check (c = 4): D3 = 7 (1 + 2 + 3).
- On fixed total report, not printing net total of <MINUS>, <COUPON>, <%-> etc. (a = 1), not printing <REFUND> and <VOID> amounts (b = 2): D2 = 3 (1 + 2).
- On fixed total report, not printing non-taxable amounts (a = 1), not printing rounded down amount (b = 2), not printing cancelled amount (c = 4): D1 = 7 (1 + 2 + 3).

Press 3 [SUB TOTAL] 0 8 2 2 [SUB TOTAL] 7 1 5 0 4 5 0 7 3 7 [CA/AMT TEND] [SUB TOTAL]

Set code 10 (Print control of taxable amount)

Description		Selection	Program code	Default value
Print taxable amount 1 on receipt/journal.	a	Yes = 0 No = 1	☐ (a+b+c) D10	0 (a+b+c) D10
Print taxable amount 2 on receipt/journal.	b	Yes = 0 No = 2		
Print taxable amount 3 on receipt/journal.	c	Yes = 0 No = 4		
Print taxable amount 4 on receipt/journal.		Yes = 0 No = 1	☐ D9	0 D9
Must be “00000000” (eight zeros)			0 to 0 D8 to D1	0 to 0 D8 to D1

Set code 14 (Currency exchange)

Description		Selection	Program code	Default value
Monetary mode of CECA1 and CECK1 in fixed total report. CECA: Foreign currency cash in drawer CECK: Foreign currency check in drawer		0 to 9	☐ D8	0 D8
Decimal for CECA1 and CECK1 in fixed total report: Period = 0, Comma = 1	a	Period = 0 Comma = 1	☐ (a+b) D7	0 (a+b) D7
Separator for CECA1 and CECK1 in fixed total report: Comma = 0, Period = 4	b	Comma = 0 Period = 4		
Monetary mode of CECA2 and CECK2 in fixed total report.		0 to 9	☐ D6	0 D6
Decimal for CECA2 and CECK2 in fixed total report: Period = o, Comma = 1	a	Period = 0 Comma = 1	☐ (a+b) D5	0 (a+b) D5
Separator for CECA2 and CECK2 in fixed total report: Comma = 0, Period = 4	b	Comma = 0 Period = 4		
Always “0000”			0 to 0 D4 to D1	0 to 0 D4 to D1

Set code 15 (Printing methods of sales reports)

Description		Selection	Program code	Default value
Department zero skip (Departments of sales amount zero are not printed on sales reports.)	a	Yes = 0 No = 1	☐ (a+b) D10	0 (a+b) D10
Clerk zero skip (Zero amounted clerks are not printed on sales reports.)	b	Yes = 0 No = 2		
Transaction key zero skip (Transaction keys of sales amount zero are not printed on sales reports.)	a	Yes = 0 No = 1	☐ (a+b+c) D9	0 (a+b+c) D9
PLU zero skip (Zero amounted PLUs are not printed on sales reports.)	b	Yes = 0 No = 2		
Hourly sales report skip (Zero amounted time zones are not printed on sales reports.)	c	Yes = 0 No = 4		
Group zero skip (Zero amounted groups are not printed on sales reports.)		Yes = 0 No = 1	☐ D8	0 D8
Must be “0”			0 D7	0 D7
Prohibit to issue “OPEN CHECK Z” report		No = 0 Yes = 1	☐ D6	0 D6
Print PLU numbers on the PLU report.		No = 0 Yes = 4	☐ D5	0 D5
Print sales ratio on sales reports.	a	No = 0 Yes = 1	☐ (a+b) D4	0 (a+b) D4
Issue double Z repors.	b	No = 0 Yes = 2		
Must be “000”			0 0 0 D3 D2 D1	0 0 0 D3 D2 D1

Set code 16 (Printing methods of grand total)

Description	Selection	Program code	Default value
Print range of consecutive number on fixed total report.	No = 0 Yes = 1	☐ D7	0 D7
Must be “00111”		0 0 1 1 1 D6 D5 D4 D3 D2	0 0 1 1 1 D6 D5 D4 D3 D2
Print grand total on daily sales reset (Z) report.	Yes = 0 No = 1	☐ D1	0 D1

Set code 17 (Date/time printing on journals/receipts)

Description		Selection	Program code	Default value
Print date on journal.	a	Yes = 0 No = 2	□ (a+b) D4	0 (a+b) D4
Print consecutive number on receipt/journal.	b	Yes = 0 No = 4		
Print time on receipt.	a	Yes = 0 No = 1	□ (a+b) D3	0 (a+b) D3
Print time on journal.	b	Yes = 0 No = 2		
Must be “00”			0 0 D2 D1	0 0 D2 D1

Set code 18 (Print control for guest receipt)

Description		Selection	Program code	Default value
Classify registered items by groups on guest receipts.		No = 0 Yes = 4	□ D6	0 D6
Must be “0”			0 D5	0 D5
Print date on guest receipts.	a	Yes = 0 No = 1	□ (a+b) D4	0 (a+b) D4
Print time on guest receipts	b	Yes = 0 No = 2		
Merge the same registrations in a guest receipt (item consolidation)		Yes = 0 No = 4	□ D3	0 D3
Must be “00”			0 0 D2 D1	0 0 D2 D1

Set code 19 (Double height character printing on receipts)

Description	Selection	Program code	Default value
Print receipt in double height characters	No = 0 Yes = 1	□ D7	0 D7
Must be “000000” (six zeros)		0 0 0 0 0 0 D6 D5 D4 D3 D2 D1	0 0 0 0 0 0 D6 D5 D4 D3 D2 D1

Set code 21 (Printing methods of messages)

Description		Selection	Program code	Default value
Print graphic type logo. (If “No” is selected, character logo will be printed.)		No = 0 Yes = 2	[ ] D10	[2] D10
Print commercial message on guest receipts.	a	No = 0 Yes = 1	[ ] (a+b) D9	[0] (a+b) D9
Print bottom message on guest receipts.	b	No = 0 Yes = 2		
Must be “00”			[0][0] D8 D7	[0][0] D8 D7
Print commercial message on receipts in REG/RF mode.	a	No = 0 Yes = 1	[ ] (a+b) D6	[0] (a+b) D6
Print bottom message on receipts in REG/RF mode.	b	No = 0 Yes = 2		
Must be “0000”			[0][0][0][0] D5 D4 D3 D2	[0][0][0][0] D5 D4 D3 D2
Must be “0”.			[0] D1	[0] D1

Set code 25 (Entry restriction)

Description		Selection	Program code	Default value
Restrict (to 0 or 5) to the last digit for amount tender.	a	No = 0 Yes = 1	[ ] (a+b) D1	[0] (a+b) D1
Restriction (to 0 or 5) to the last digit for <CASH>. <RC>, <PD>, money declaration amount.	b	No = 0 Yes = 4		

Set code 26 (Check tracking)

Description		Selection	Program code	Default value
Force to enter check number	a	No = 0 Yes = 1	[ ] (a+b+c) D7	[0] (a+b+c) D7
Force to enter number of customersl.	b	No = 0 Yes = 2		
Force to issue guest receipts.	c	No = 0 Yes = 4		
Must be “0”			[ ] D6	[0] D6
Tax calculation by new balance. (Calculation result is not saved into the totalizer)		No = 0 Yes = 1	[ ] D5	[0] D5
Must be “0000” (four zeros)			[0] to [0] D4 to D1	[0] to [0] D4 to D1

Set code 27 (Clerk operation selections)

Description	Selection	Program code	Default value
Allow clerk interruption.	No = 0 Yes = 1	☐ D10	0 D10
Allow clerk functions.	No = 0 Yes = 4	☐ D9	0 D9
Must be “00000000”		0 to 0 D8 to D1	0 to 0 D8 to D1

Set code 28 (Euro 1)

Description	Selection	Program code	Default value
Define Euro as the main currency.	Yes = 0 No = 1	☐ D10	0 D10
Select rounding option: Round off = 0, Cut off = 1, Round up = 2	0,1 or 2	☐ D9	0 D9
Exchange rate (in 6 digits)	Exchange rate	☐ to ☐ D8 to D3	0 to 0 D8 to D3
Decimal point position of exchange rate: Integer only = 0, 1st decimal place = 1, 2nd decimal place = 2, 3rd decimal place = 3, 4th decimal place = 4, 5th decimal place = 5, 6th decimal place = 6 Example: (D8 ~ D2): 1 Euro = 1.955 DM; set “0019553” 1 Euro = 1957.77319 Lit; set “1957772”	0 to 6	☐ D2	0 D2
Must be “0”		☐ D1	0 D1

Example 1: To set Euro as main currency, rounding off, exchange rate €1.00 = DM 1.9558

3 [SUB TOTAL] 2 8 2 2 [SUB TOTAL] 0 0 0 1 9 5 5 8 4 0 [CA/AMT/TEND] [SUB TOTAL]

Example 2: To set Euro as sub currency, rounding up, exchange rate €1.00 = £0.8573

3 [SUB TOTAL] 2 8 2 2 [SUB TOTAL] 1 2 0 0 8 5 7 3 4 0 [CA/AMT/TEND] [SUB TOTAL]

Set code 29 (Euro 2)

Description		Selection	Program code	Default value
ADD mode of sub currency: 0. = 0, 0.0 = 1, 0.00 = 2, 0.000 = 3		0 to 3	☐ D10	0 D10
Apply rounding for sub currency. * No rounding = 0, IF1 = 1, IF2 = 2, Danish = 3, Finnish = 6, Australian = 7, South African = 8		0 to 8	☐ D9	0 D6
Must be “0”			0 D8	0 D8
Print tendered amount in sub currency converted to main currency.	a	No = 0 Yes = 2	☐ (a+b+c) D7	0 (a+b+c) D7
Selection of the currency of subtotal printout: 1 Main currency only, 2 Main and sub currency	b	① = 0 ② = 2		
Print total in sub currency by double sized letter.	c	No = 0 Yes = 4		
Selection of the currency of change: 1 Main currency only, 2 Sub currency	a	① = 0 ② = 1	☐ (a+b+c) D6	0 (a+b+c) D6
Print the cash in drawer in sub currency on fixed total reports. (If the cash in drawer of main currency is skipped, this line is also skipped.)	b	No = 0 Yes = 2		
Display symbols of sub currency: 1 e (Euro), 2 l (Local)	c	① = 0 ② = 4		
Restrict (to 00, 25, 50, 75) on last two digits for amount tendered: 1 Main currency, 2 Sub currency (It is necessary to set this restriction to <CASH> key.)	a	① = 0 ② = 1	☐ (a+b+c) D5	0 (a+b+c) D5
Print rounding total of sub currency on fixed totalizer report.	b	No = 0 Yes = 1		
Restrict the last digit for sub currency monetary amount entries to 0 or 5.	c	No = 0 Yes = 4		
Selection of the change amount printout: 1 Main and sub currency, 2 Dependent upon D6 -a of this worksheet	a	① = 0 ② = 1	☐ (a+b) D4	0 (a+b) D4
Calculation method of change amount in sub currency: 1 Convert the change amount in main currency into sub currency. 2 Subtract the equivalent value of subtotal amount in sub currency from the equvalent value of the tendered amount in sub currency,	b	① = 0 ② = 2		
Must be “000”		000	0 0 0 D3 D2 D1	0 0 0 D3 D2 D1

Set code 30 (Thermal printer control)

Description		Selection	Program code	Default value
Print preset receipt message and graphic.	a	No = 0 Yes = 1	[ ] (a+b) D5	[0] (a+b) D5
Print preset receipt message and graphic:① at the bottom of the receipt, ② at the top of the receipt	b	① = 0 ② = 2		
Journal compressed print (print half height characters)		Yes = 0 No = 1	[ ] D4	[0] D4
Must be “000”			[0][0][0] D3 D2 D1	[0][0][0] D3 D2 D1

Set code 34 (Backlight control)

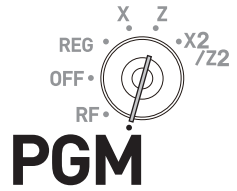
Description	Selection	Program code	Default value
Backlight	Functions = 0 Not functions = 1	[ ] D4	[0] D4
Must be “000”		[0][0][0] D3 D2 D1	[0][0][0] D3 D2 D1

Programming functions of departments and PLUs in a lump

There are two methods to set functions of departments or PLUs which are programming at once and programming individual functions.

Programming department and flat PLU functions in a lump

This method programs function of a department at one time.
For shifted departments, press <Department no./Department shift> key first.
For shifted flat PLU, press [MENU SHIFT] key first.



Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT TEND] key.	[↓] ····· [↓] [CA/AMT TEND]
2 Enter [3] and press [SUB TOTAL] key to set the register in the programming mode.	[3] [SUB TOTAL]
3 You can skip this step if you program in departments 01 through 25. If you wish to program in departments 26 through 50, press <Dept.no./Dept. shift> key.	<Dept.no./Dept. shift>
4 Referring following table, input 12- digit program code.	[ ][ ] ····· [ ][ ] [Program code (12 digits)]
5 Press the department key you wish to program	[1] For example, programming in dept. 26.
6 Repeat steps 3 through 5 if you wish to program functions in another departments.	
7 Press [SUB TOTAL] key to complete the program.	[SUB TOTAL]

Example:

Programming department 26 as;

- Normal item: D12 = 0.
- D11 through D8 must be 0000.
- US taxable status 1 (a = 1) and 2 (b = 2): D7 = 3 (1 + 2)
- Allowing zero unit price (a = 1), not allowing negative unit price (b = 0), hash item (c = 4): D6 = 5 (1 + 0 + 4).
- D5 must always be 0.
- Limiting minimum entry digit: 3 digits: D4 = 3.
- As this example is for setting functions in a department, D3 should be 0.
- Applying commission 1 (a = 1), not applying commission 2 (b = 0): D2 = 1 (1 + 0).
- D1 must always be 0.

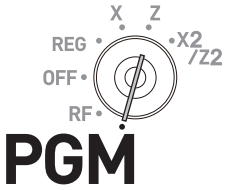
Press [3] [SUB TOTAL] [MENU SHIFT] [0] [0] [0] [0] [0] [3] [5] [0] [3] [0] [1] [1] [SUB TOTAL]

Department and PLU lump set code

Description				Selection	Program code	Default value
Age limitation 00: No limitation				00 to 99	☐☐ D14 D13	0 0 D14 D13
Single item sales: Normal item = 0, Single item = 3				0 or 3	☐ D12	0 D12
Must be “0”				0	0 D11	0 D11
Only for PLUs and flat PLUs Normal item = 0, Condiment item = 1, Preparation item = 2				0, 1 or 2	☐ D10	0 D10
Must be “00”				00	0 0 D9 D8	0 0 D9 D8
Taxable status	Taxable status for USA	Taxable status 1	a	No = 0 Yes = 1	☐ (a+b+c) D7	0 D7
		Taxable status 2	b	No = 0 Yes = 2		
		Taxable status 3	c	No = 0 Yes = 4		
	Taxable status for Canada	Non tax = 0, Taxable 1 = 1, Taxable 2 = 2, Taxable 3 = 3, Taxable 4 = 4, Taxable 1 & 2 = 5, Taxable 1 & 3 = 6, Taxable 1 & 4 = 7			☐ D7	
Enable zero unit price.			a	No = 0 Yes = 1	☐ (a+b+c) D6	0 (a+b+c) D6
Enable negative price.			b	No = 0 Yes = 2		
Hash item			c	No = 0 Yes = 4		
Must be “0”				0	0 D5	0 D5
Low digit limitation (LDL) for manually entered unit price.				Number of digits	☐ D4	0 D4
Open PLU (only for PLU)				No = 0 Yes = 4	☐ D3	0 D3
Commission 1 (give commission on items)			a	No = 0 Yes = 1	☐ (a+b) D2	0 (a+b) D2
Commission 2			b	No = 0 Yes = 2		

Programming PLU functions in a lump

This method programs functions of a PLU at one time.

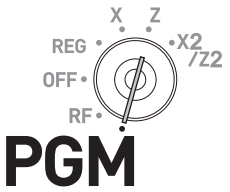


Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key.	[↓] ▪▪▪▪▪ [↓] [CA/AMT/TEND]
2 Enter **3** and press [SUB TOTAL] key to set the register in the programming mode.	**3** [SUB TOTAL]
3 Enter four-digit PLU number then press [PLU/S.DEPT] key.	**0** **0** **1** **4** [PLU/S.DEPT] For example, to program PLU number fourteen.
4 Referring the table in the previous section, input 12- digit program code.	[ ] [ ] ▪▪▪▪▪ [ ] [ ] [Program code (12 digits)]
5 Press [CA/AMT/TEND] key.	[CA/AMT/TEND]
6 Repeat steps 3 through 5 if you wish to program functions in another PLU.	
7 Press [SUB TOTAL] key to complete the program.	[SUB TOTAL]

Programming functions of departments and PLUs individually

Programming functions of departments individually

This part explains programming methods of each function of departments individually.



Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press CA/AMT/TEND key.	↓ ····· ↓ CA/AMT/TEND
2 Enter 3 and press SUB TOTAL key to set the register in the programming mode.	3 SUB TOTAL
3 Referring the following table, enter two-digit set code you wish to program followed by two 6s. The “66” is the identification code for individual programming of departments and PLUs. Then press SUB TOTAL key.	□ □ 6 6 SUB TOTAL (set code)
4 You can skip this step if you program in departments 01 through 25. If you wish to program in departments 26 through 50, press <Dept. no./Dept. shift> key.	<Dept. no./Dept. shift>
5 Referring the following table, enter program code and press the department key in which you wish to set.	1 2 3 3 This example is for linking dept. 03 to item group 123 assuming set code 11 has been entered in step 3 and <Dept. no./Dept. shift> key is not pressed in step 4.
6 If you wish to set the same function in another department, press the corresponding dept. key.	4 This example is for setting the same linking group in dept. 04.
7 Repeat steps 4 and 5 to set another function in another department.	
8 Press SUB TOTAL key to complete the program.	SUB TOTAL

Set code table

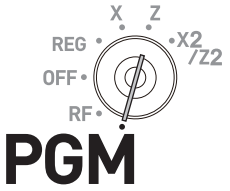
Set code	Description				Selection	Program code
01	Normal item /condiment item /preparation item Normal item = 0, Condiment item = 1, Preparation item = 2				0,1 or 2	☐
03	Taxable status	For singapore	D2 must be 0		0	0 D2
			Taxable status 1	a	No = 0 Yes = 1	☐ (a+b+c) D1
			Taxable status 2	b	No = 0 Yes = 2	
			Taxable status 3	c	No = 0 Yes = 4	
		For other countries	Non tax = 00, Taxable 1 = 01, Taxable 2 = 02, Taxable 3 = 03, Taxable 4 = 04, All taxable = 99 (only for transaction keys)		00 to 04	☐☐ D2 D1
04	Open PLU (Only for PLU)				No = 0 Yes = 4	☐
05	Allow unit price 0			a	No = 0 Yes = 1	☐ (a+b+c)
	Allow negative unit price.			b	No = 0 Yes = 2	
	Hash item			c	No = 0 Yes = 4	
07	Minimum digit of manual input unit price				Number of minimum digit	☐
09	Commission 1			a	No = 0 Yes = 1	☐ (a+b)
	Commission 2			b	No = 0 Yes = 2	
11	Linking group (000 to 999)				000 to 999	☐☐☐ D7 D6 D5
	Must be 0				0	0 D4
	Linking dept. (000 to 999) (Only for PLU)				000 to 999	☐☐☐ D3 D2 D1
13	Set menu table number (only for PLU)				Table No.	☐☐☐☐ D4 D3 D2 D1
15	Maximum amount of manual input unit price (up to 9999.99)					☐☐☐☐☐☐ D6 D5 D4 D3 D2 D1
18	Single item control: Normal item = 0, Single item = 3				0 or 3	☐
26	Age limitation (no limitation if “00” is set)				Age	☐☐

Example: To program dept. 02 to allow manual input unit price up to •99.00.

3 SUB TOTAL 1 5 6 6 SUB TOTAL 9 9 0 0 2 SUB TOTAL

Programming functions of PLUs individually

This part explains programming methods of each function of PLUs individually.



Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press CA/AMT/TEND key.	↓ ····· ↓ CA/AMT/TEND
2 Enter 3 and press SUB TOTAL key to set the register in the programming mode.	3 SUB TOTAL
3 Referring the tables in the proceeding section, enter two-digit set code you wish to program followed by two 6s. The "66" is the identification code for individual programming of departments and PLUs. Then press SUB TOTAL key.	□ □ 6 6 SUB TOTAL (set code)
4 Enter PLU number you wish to set and press PLU key.	0 0 0 5 PLU This example is for setting a program in PLU 0005.
5 Referring the table in the preceding section, enter program code and press CA/AMT/TEND key.	□ ····· □ CA/AMT/TEND (Program code)
6 If you wish to set the same program code in the next PLU number, press CA/AMT/TEND key again. Perform step 5 if you wish to set another program code to the next PLU number. To program in another PLU number (not next PLU number), repeat steps 4 and 5.	CA/AMT/TEND
7 Press SUB TOTAL key to complete the settings.	SUB TOTAL

Example 1: To set PLU 0001 as "Open PLU".

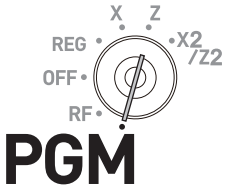
Press 3 SUB TOTAL 0 4 6 6 SUB TOTAL 0 0 0 1 PLU 4 CA/AMT/TEND SUB TOTAL

Example 2: To set PLU0012 to link item group 12 and dept. 04.

Press 3 SUB TOTAL 1 1 6 6 SUB TOTAL 0 0 1 2 PLU 0 1 2 0 0 0 4 CA/AMT/TEND SUB TOTAL

Programming functions of transaction keys

This section explains how you can program functions in each transaction keys such as [CA/AMT/TEND], [CH] or [—] keys. For example, programming [CA/AMT/TEND] key to force entry of tendered amount.



Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key.	[↓] ▪▪▪▪▪ [↓] [CA/AMT/TEND]
2 Enter [3] and press [SUB TOTAL] key to set the register in the programming mode.	[3] [SUB TOTAL]
3 Referring the following tables, enter the program code then press corresponding transaction key.	[ ] ▪▪▪▪▪ [ ] [—] (Program code) The above example is for programming minus key.
4 If you wish to program another transaction key, return to step 3.	
5 Press [SUB TOTAL] key to complete the program.	[SUB TOTAL]

Program code tables

NOTE **Default value of all the program codes are “0”.**

Program code for [CA/AMT/TEND], <Charge> and [CHK] keys.

Description		Selection	Program code
Restrict to 00/55 on last two digits for amount tendered (only for [CA/AMT/TEND] in Danish rounding)		No = 0 Yes = 4	☐ D10
Must be “00”.		00	0 0 D9 D8
Prohibit partial payment.	a	No = 0 Yes = 1	☐ (a+b+c) D7
Prohibit tendered amount entry	b	No = 0 Yes = 2	
Force to enter tendered amount.	c	No = 0 Yes = 4	
Print breakdown of VAT. (Option for Single item or Currency exchange (including partial tendering foreign currency).)		No = 0 Yes = 1	☐ D6
French food coupon		No = 0 Yes = 1	☐ (a+b) D5
Perform Finnish rounding		No = 0 Yes = 4	
Maximum amount for subtotal and tendered amount. e.g.) •9000, D4 = 9, D3 = 3		D4: Maximum value (0 ~ 9)	☐ ☐ D4 D3
		D3: Number of zeros (0 ~ 9)	
Maximum amount of change due.		Maximum value (0 ~ 9)	☐ ☐ D2 D1
		Number of zeros (0 ~ 9)	

Example : To set [CA/AMT/TEND] key as prohibiting partial payment (a = 1), not prohibiting tendered amount entry (b = 0), and forcing to enter tendered amount (c = 4): D7 = 6.

Press 3 [SUB TOTAL] 6 0 0 0 0 0 0 [CA/AMT/TEND] [SUB TOTAL]

Program code for [RA] and [PO] keys

Description	Selection	Program code
Maximum amount. e.g.) •10,000; D4 = 1, D3 = 4.	Maximum value (0 ~ 9) Number of zeros (0 ~ 9)	□ □ D4 D3
Must be “00”	00	0 0 D2 D1

Example : To set [PD] key not allowing to enter more than $900.

Press 3 [SUB TOTAL] 9 2 0 0 [PD] [SUB TOTAL]

Program code for [—] , <Addition (plus)> and <Coupon> keys

Description				Selection	Program code
Taxable status	For singapore	D8 must be 0		0	0 D8
		Taxable status 1	a	No = 0 Yes = 1	□ (a+b+c) D7
		Taxable status 2	b	No = 0 Yes = 2	
		Taxable status 3	c	No = 0 Yes = 4	
	For other countries	Non tax = 00, Taxable 1 = 01, Taxable 2 = 02, Taxable 3 = 03, Taxable 4 = 04, All taxable = 99 (only for transaction keys)		00 to 04	□ □ D8 D7
Allow credit balance ([—]<Coupon> only)			a	No = 0 Yes = 1	□ (a+b) D6
Allow credit balance (<Addition (plus)> only)			b	No = 0 Yes = 2	
Must be “00”				00	0 0 D5 D4
Maximum digit of manual input unit price (Setting “9” programs NOT allowing manual entry.)				Number of digit	□ D3
Give commission 1			a	No = 0 Yes = 1	□ (a+b) D2
Give commission 2			b	No = 0 Yes = 2	
Must be “0”				0	0 D1

Program code for [%−] key

Description				Selection	Program code
Taxable status	For singapore	D8 must be 0		0	[0] D8
		Taxable status 1	a	No = 0 Yes = 1	[ ] (a+b+c) D7
		Taxable status 2	b	No = 0 Yes = 2	
		Taxable status 3	c	No = 0 Yes = 4	
	For other countries	Non tax = 00, Taxable 1 = 01, Taxable 2 = 02, Taxable 3 = 03, Taxable 4 = 04, All taxable = 99 (only for transaction keys)		00 to 99	[ ][ ] D8 D7
Prohibit manual rate entry.				No = 0 Yes = 2	[ ] D6
Rounding: Round off = 0, Cut off = 1, Round up = 2				0, 1 or 2	[ ] D5
Must be “00”				00	[0][0] D4 D3
Give commission 1			a	No = 0 Yes = 1	[ ] (a+b)D2
Give commission 2			b	No = 0 Yes = 2	
Must be “0”				0	[0] D1

Program code for [#] and <#/NS> keys

Description	Selection	Program code
Allow mode change or clerk change after the key operation as first transaction. (Only for Non-add function)	Yes = 0 No = 1	[ ] D7
Must be “000000”	000000	[0][0][0][0][0][0] D6 D5 D4 D3 D2 D1

Program code for [SUB TOTAL] key

Description	Selection	Program code
Print when the key is pressed.	No = 0 Yes = 4	[ ] D6
Always “00000”	00000	[0][0][0][0][0] D5 D4 D3 D2 D1

Program code for <Age verification> key

Description	Selection	Program code
Print the registered date.	Yes = 0 No = 1	☐ D10
Must be “000000000” (nine zeros).	000000000	All 0 D9 to D1

Program code for <Currency exchange> key.

Description	Selection	Program code
Define foreign currency symbol (0, 1, 2, 3, or 4). See “Setting symbol characters” on pege E-80. Setting “0” defines the local currency.	0 to 4	☐ D7
Define foreign currency totalizer number. (0, 1, 2) (Totalizer 1 is defined if “0” is set)	0, 1 or 2	☐ D6
Roundings Round off = 0, Cut off = 1, Round up = 2	0, 1 or 2	☐ D5
Must be “0”.	0	0 D4
ADD (decimal point position) 0. = 0, 0.0 = 1, 0.00 = 2, 0.000 = 3	0 to 9	☐ D3
Symbol for decimal point	Point = 0 Comma = 1	☐ D2(a+b) e.g.) for 1,234.56 D2 = 0+0
Symbol for separator	Comma = 0 Point = 4	
Must be “0”	0	0 D1

Program code for <Arrangement> key

Description	Selection	Program code
Process numeric entry as programmed arrangement number.	No = 0 Yes = 1	☐ D7
Arrangement program number.	Program number	☐ to ☐ D6 to D1

Program code for <Text recall> key

Description	Selection	Program code
Character file number.	File number	☐☐ D6 D5
Must be “0000”	0000	All 0 D4 to D1

Program code for <Multiplication> <Multiplication for> keys

Description	Selection	Program code
Multiplication procedure ① Quantity × Amount, ② Amount × Quantity	① = 0 ② = 1	□ D6
Roundings: Round off = 0, Cut off = 1, Round up = 2	0, 1, or 2	□ D5
Must be “0000”	0000	0 0 0 0 D4 D3 D2 D1

Program code for <Tax shift> key

Description	Selection	Program code
Taxable status (01 ~ 04) (Taxable 1 if “00” is set)	01 to 04	□ □ D8 D7
Must be “000000”	000000	0 0 0 0 0 0 D6 D5 D4 D3 D2 D1

Program code for <Credit> key.

Description		Selection	Program code
Prohibit partial payment.	a	No = 0 Yes = 1	□ (a+b+c) D7
Prohibit tendered amount entry	b	No = 0 Yes = 2	
Force to enter tendered amount.	c	No = 0 Yes = 4	
Print breakdown of VAT.		No = 0 Yes = 1	□ D6
French food coupon	a	No = 0 Yes = 1	□ (a+b)D5
Performs Finnish rounding	b	No = 0 Yes = 4	
Maximum amount for subtotal and tendered amount. e.g.) •9,000, D4 = 9, D3 = 3		D4: Maximum value (0 ~ 9) D3: Number of zeros (0 ~ 9)	□ □ D4 D3
Must be “00”		00	0 0 D2 D1

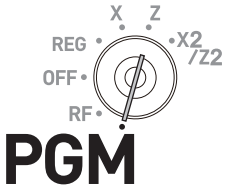
Program code for <New balance> key

Description	Selection	Program code
Cancel the transaction if no item is registered.	No = 0 Yes = 4	☐ D10
Must be “00”.	00	0 0 D9 D8
Function after normal (not in check tracking) registration. Error = 0, Auto cash = 1 (see below)	0 or 1	☐ D7
Print breakdown of VAT.	No = 0 Yes = 1	☐ D6
Must be “00000”	00000	0 to 0 D5 to D1

Auto cash: <New balance> key functions as key if it is pressed without opening a new check or calling old check in the check tracking system.

Programming further clerk functions

This section explains how you can set further programming for clerks such as setting clerks' secret number, setting the register in training mode or setting commission rates given to clerks. In the training mode, the register operates normally but the results will not be stored in the memory. You can use this feature for getting to know the operations of the cash register for yourself or for newly hired clerks.



■ Setting check number for clerk interruption and clerks' secret number

Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key.	[↓] ····· [↓] [CA/AMT/TEND]
2 Enter [3] and press [SUB TOTAL] key to set the register in the programming mode.	[3] [SUB TOTAL]
3 Enter 2 -digit clerk number followed by 07. The "07" is the identification code for further program of clerks. Then press [SUB TOTAL] key. The example on the right is for programming to clerk number 10.	[1] [0] [0] [7] [SUB TOTAL] (Clerk no.)
4 Enter the program code and press [CA/AMT/TEND] key. The example on the right is for setting check number "123456" for clerk interruption and clerk's secret number "7890".	[1] [2] [3] [4] [5] [6] [7] [8] [9] (program code) [CA/AMT/TEND]
5 If you wish to set the same program to the next clerk number, perform the step 4 again. When you set to another clerk (not next clerk number), repeat steps 3 and 4.	
6 Press [SUB TOTAL] key to complete the settings.	[SUB TOTAL]

Program code for check number for clerk interruption and clerks' secret number

Description	Selection	Program code
Must be "000000" (six zeros).	000000	[0] [0] [0] [0] [0] [0] D10 D9 D8 D7 D6 D5
Clerks' secret number	Secret number	[ ] [ ] [ ] [ ] D4 D3 D2 D1

■ Other clerk settings

Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key.	[↓] ····· [↓] [CA/AMT/TEND]
2 Enter 3 and press [SUB TOTAL] key to set the register in the programming mode.	3 [SUB TOTAL]
3 Enter 2 -digit clerk number followed by 07. The "07" is the identification code for further program of clerks. Then press [SUB TOTAL] key. The example on the right is for programming to clerk number 10.	1 0 0 7 [SUB TOTAL] (Clerk no.)
4 Referring the following tables, input the set code you wish to program and press [SUB TOTAL] key. The example on the right is for setting a commission rate.	6 8 [SUB TOTAL] (set code)
5 Enter the program code and press [CA/AMT/TEND] key. The example on the right is for setting 8.5% to commission rate 1 and 5% to commission 2.	0 8 5 0 0 5 0 0 [CA/AMT/TEND] (program code)
6 If you wish to set the same program to the next clerk number, perform the step 5 again. When you set to another clerk (not next clerk number), repeat steps 3 through 5.	
7 Press [SUB TOTAL] key to complete the settings.	[SUB TOTAL]

Set code 67 (Training mode)

Description	Selection	Program code
Training mode	No = 0 Yes = 1	□ D6
Must be "00000"		0 0 0 0 0 D5 D4 D3 D2 D1

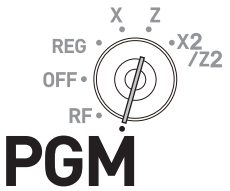
Example 1: To set the clerk number 15 as a clerk being trained.
Press 3 [SUB TOTAL] 1 5 0 7 [SUB TOTAL] 1 0 0 0 0 0 [CA/AMT/TEND] [SUB TOTAL]

Set code 68 (Commission rates)

Description	Selection	Program code
Commission rate 1 (integer)	00 to 99	□ □ D8 D7
Commission rate 1 (decimal)	00 to 99	□ □ D6 D5
Commission rate 2 (integer)	00 to 99	□ □ D4 D3
Commission rate 2 (decimal)	00 to 99	□ □ D2 D1

■ Programming set menu

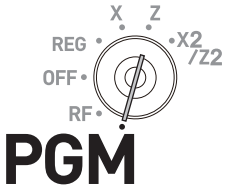
This program sets the menu number and sub items' (included in the menu) PLU number. You can set up to 15 items in a set menu.



Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key.	[↓] ▪▪▪▪▪ [↓] [CA/AMT/TEND]
2 Enter [3] and press [SUB TOTAL] key to set the register in the programming mode.	[3] [SUB TOTAL]
3 Enter 2 -digit set menu number followed by 28. The "28" is the identification code for setting menu programming. Then press [SUB TOTAL] key.	[1] [0] [2] [8] [SUB TOTAL] This example is for programming set menu number 10.
4 If you wish to use allocated flat PLU, proceed to step 5. If you use normal PLU, enter 4- digit PLU number of an item included in the menu and press [PLU/S.DEPT] key.	[0] [0] [1] [2] [PLU/S.DEPT] This example is for setting PLU 0012 in the menu.
5 If you wish to use allocated <flat PLU> key, press <Flat PLU> key. If you use shifted flat PLU, press [MENU/SHIFT] and <Flat PLU> keys.	([MENU/SHIFT]) <Flat PLU>
6 Press [CA/AMT/TEND] key. If you wish to set another item in the menu, preform the step 4 or 5. To set another menu, repeat the steps 3 through 5.	[CA/AMT/TEND]
7 Press [SUB TOTAL] key to complete the settings.	[SUB TOTAL]

Programming auto operation of <Arrangement>

By using allocated <Arrangement> key, programmed operations are performed automatically just by pressing <Arrangement> key. The following explains to set the automatic operations.



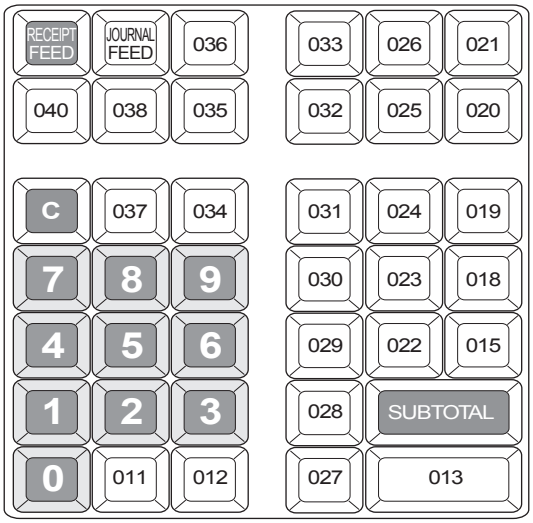
Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key.	[↓] ▪▪▪▪▪ [↓] [CA/AMT/TEND]
2 Enter [3] and press [SUB TOTAL] key to set the register in the programming mode.	[3] [SUB TOTAL]
3 Enter 4- digit record number followed by 38. The “38” is the identification code for arrangement programming. If you enter “0000”, the register serches a vacant record number. Then press [SUB TOTAL] key.	[0] [0] [0] [0] [3] [8] [SUB TOTAL] This example is for searching a vacant arrangement program number.
4 Press <Arrangement> key.	<Arrangement>
5 Input 6-digit arrangement arrangement number and press [CA/AMT/TEND] key.	[ ] [ ] [ ] [ ] [ ] [ ] [CA/AMT/TEND] (Arrangement no.)
6 Input keys you wish to program automatic operations and press <Arrangement> key.	[1] [2] [×/FOR/DATE/TIME] [5] [0] [1] [CA/AMT/TEND] For programming to register a dozen of •0.50 dept. 01 item.
7 Press <Arrangement> and [SUB TOTAL] keys to complete the program.	<Arrangement> [SUB TOTAL]

■ Key allocation

This section explains how you can allocate various functions on the keyboard.

NOTE **Before you allocate functions on the keyboard, please execute daily and periodic reset (Z) report.**

Allocatable keys



049	057	065	073	081	089	097	105	113
048	056	064	072	080	088	096	104	112
047	055	063	071	079	087	095	103	111
046	054	062	070	078	086	094	102	110
045	053	061	069	077	085	093	101	109
044	052	060	068	076	084	092	100	108
043	051	059	067	075	083	091	099	107
042	050	058	066	074	082	090	098	106

Step	Operation
1 Turn the Mode switch to PGM position and select [System Setting] then press CA/AMT/TEND (#013) key.	↓ ····· ↓ CA/AMT/TEND
2 Enter **4** and press SUB TOTAL key to set the register in the programming mode.	**4** SUB TOTAL
3 If you are allocating department or flat- PLU function, enter the department or flat PLU number in 4 digits. If not, skip this step.	□□□□ Dept. or flat PLU number
4 Referring the following table, input 3- digit function code you wish to allocate.	**0 6 3** This example is for allocating <Flat PLU> function.
5 Referring the above figure, press corresponding key.	
6 Repeat step 3 through 5 for another key location.	
7 Press SUB TOTAL key to complete the settings.	SUB TOTAL

Example 1: To allocate <Flat PLU> number 1000 on #113 key:

4 SUB TOTAL **1 0 0 0 0 6 3** [113] SUB TOTAL

Example 2: To allocate <Addition (Plus)> on #049 key:

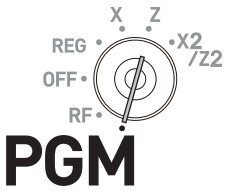
4 SUB TOTAL **0 2 9** [049] SUB TOTAL

Function	Code	Function	Code	Function	Code
Cash/amount tendered	001	Non-add	040	Multiplication	082
Charge	002	Non-add/no sale	041	Multiplication / For	083
Check tendered	003	No sale	042	New check	091
Credit	004	Customer number	043	Old check	092
New balance	006	Arrangement	044	New/old check	093
Text recall	010	Currency exchange	045	Add check	094
Tip	015	VAT	046	Age verification	106
Received on account	020	PLU	048	Help	141
Paid out	021	Price	049	Sign off	150
Coupon	023	Department	051	Tax Program	151
Reduction (Minus)	027	Tax shift	057	Dept no./Dept shift	152
Discount	028	Flat PLU	063	Cancel	236
Addition (Plus)	029	Menu shift	064	“00” double zero *1	096
Premium	030	Open	067	“000” triple zero *1	097
Manual tax	032	Clerk number	072	“.” decimal point *1	098
Refund	033	Subtotal	075		
Error correct/cancel	034	Receipt on/off	076		
Receipt	038	Merchandise subtotal	080		

* 1 Two zero key, three zero key, decimal point key can only be allocated on #011 and #012 keys.

Printing programmed data

After programs have been set, you can print the programmed data.



To print programmed unit price or percentage (other than PLU)

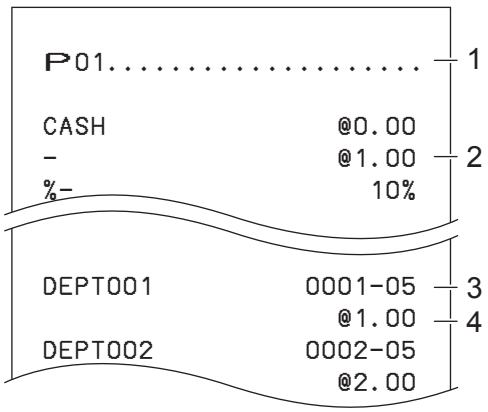
Step

1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key.

2 Enter **1** and press [SUB TOTAL] key.

3 Press [SUB TOTAL] key again. The printer starts to print preset data.

Printout



1: Program read symbol
2: Transaction key unit price or rate
3: Department descriptor/rec-#/05
4: Unit price

To print programmed characters (except PLUs)

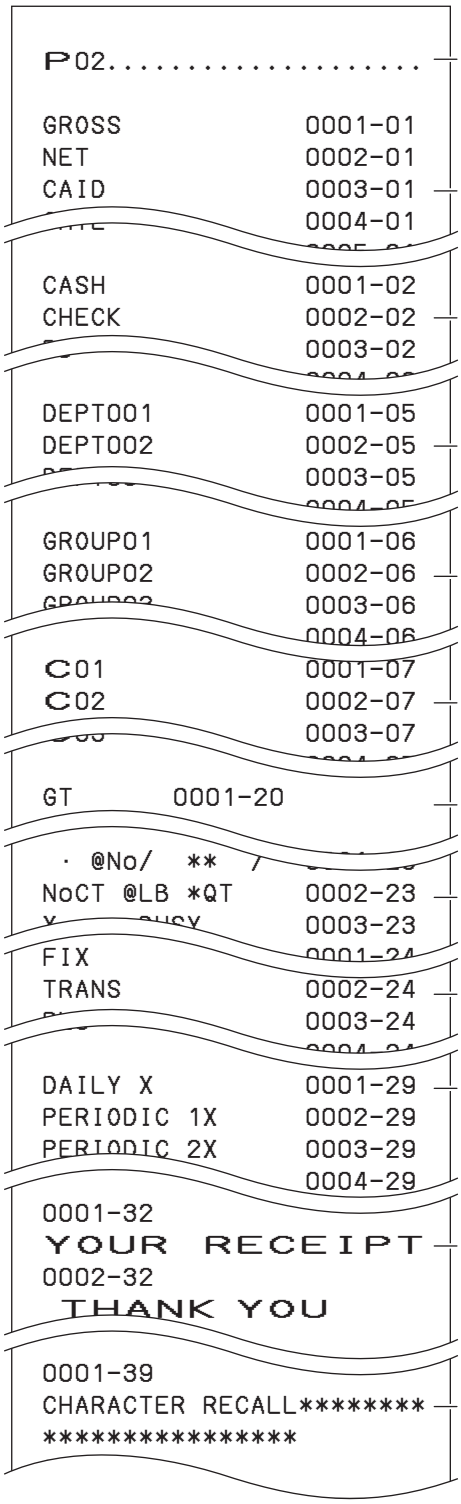
Step

1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT TEND] key.

2 Enter [2] and press [SUB TOTAL] key.

3 Press [SUB TOTAL] key again. The printer starts to print preset data.

Printout



1: Program read symbol
2: Fix total character
3: Transaction key character
4: Department character
5: Group character
6: Clerk character
7: GT character
8: Special character
9: Report header character
10: Batch X/Z character
11: Receipt message
12: Text recall character

To print general programming (except PLUs)

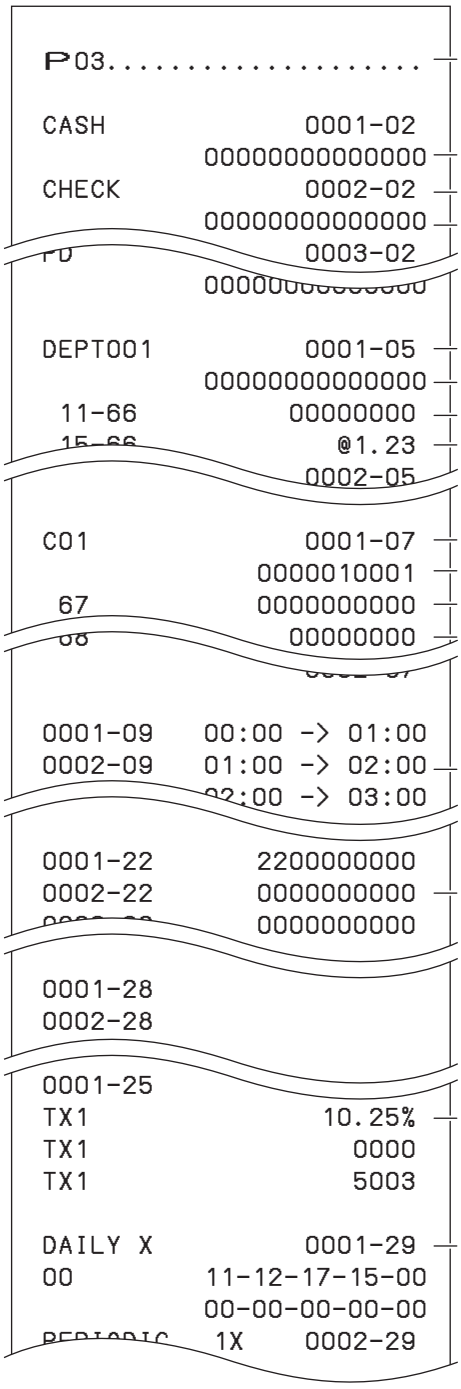
Step

1 Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key.

2 Enter **3** and press [SUB TOTAL] key.

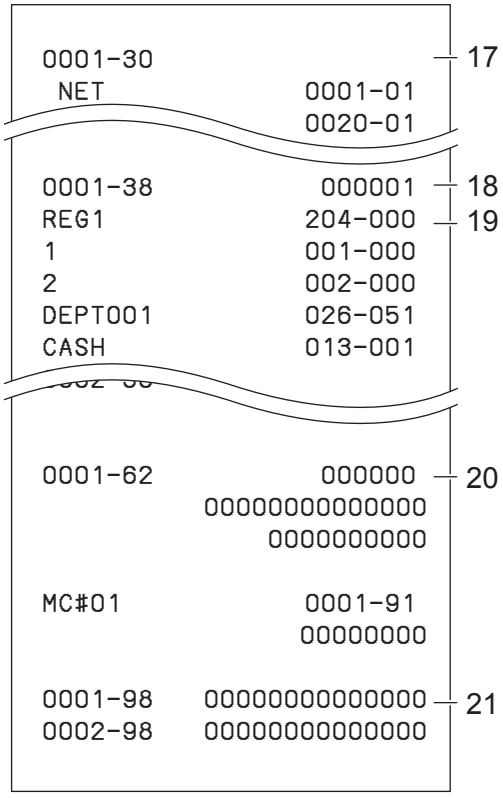
3 Press [SUB TOTAL] key again. The printer starts to print preset data.

Printout



1: Program read symbol
2: Transaction key program
3: Key character/rec-#/file-#
4: Key program
5: Department program/Key character/rec-#/file-#
6: Key program
7: Address code 11 program
8: Address code 15 program
9: Clerk program/Clerk name/rec-#/file-#
10: Check #/secret-#
11: Compulsory
12: Commission rate
13: Time range program
14: General control program
15: Tax table
16: Batch X/Z program

Printout



17: Clerk detail link program
18: Arrangement program/Rec-#/file-#/arrange no.
19: Key descriptor/rec-#/file-#
20: Scheduler program
21: I/O parameter table

To print preset unit price of PLU

Step

1 Turn the Mode switch to PGM position and select [System Setting] then press CA/AMT/TEND key.

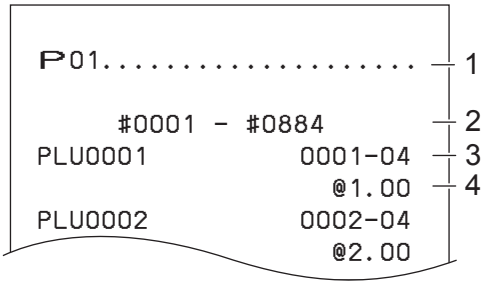
2 Enter 6 and press SUB TOTAL key to set the register in the programming mode.

3 Enter 1 0 4 and press SUB TOTAL key.

4 Enter starting PLU number and press CA/AMT/TEND key. For example, if you wish to print from PLU number 0001, input 0 0 0 1 CA/AMT/TEND.

5 Enter the last PLU number and press CA/AMT/TEND key. For example, if you wish to print up to PLU number 0884, input 0 8 8 4 CA/AMT/TEND.

Printout



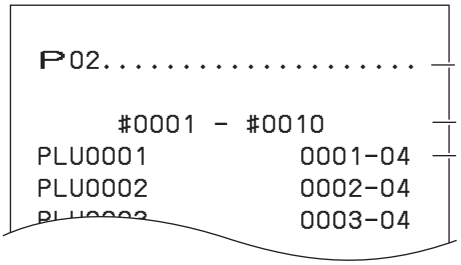
1: Program read symbol
2: Range of PLU No.
3: PLU name/rec-#/04
4: Unit price

To print preset characters of PLU

Step

1. Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key.
2. Enter 6 and press [SUB TOTAL] key to set the register in the programming mode.
3. Enter 2 0 4 and press [SUB TOTAL] key.
4. Enter starting PLU number and press [CA/AMT/TEND] key.
5. Enter the last PLU number and press [CA/AMT/TEND] key.

Printout



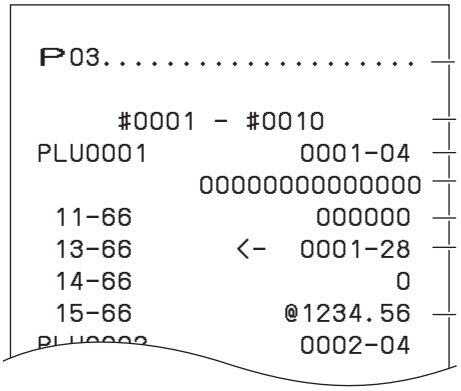
1: Program 2 mode symbol
2: Range of PLU No.
3: PLU character

To print PLU programmings

Step

1. Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key.
2. Enter 6 and press [SUB TOTAL] key to set the register in the programming mode.
3. Enter 3 0 4 and press [SUB TOTAL] key.
4. Enter starting PLU number and press [CA/AMT/TEND] key.
5. Enter the last PLU number and press [CA/AMT/TEND] key.

Printout



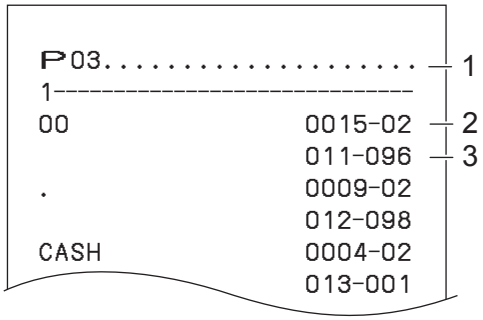
1: Program 3 mode symbol
2: Range of PLU No.
3: PLU name/rec-#/file-#
4: Address code 01 ~ 10, 18 program
5: Address code 11 program
6: Address code 13 program
7: Address code 15 program

To print key allocation program

Step

1. Turn the Mode switch to PGM position and select [System Setting] then press [CA/AMT/TEND] key.
2. Enter [4] and press [SUB TOTAL] key to set the register in the programming mode.
3. Press [SUB TOTAL] key.

Printout



1: Program read symbol
2: Function character/rec-#/file-#
3: Hard key code/function code

Printing various sales reports

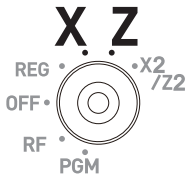
You can print categorized sales reports such as PLU sales report, item group sales report, hourly sales report etc.

NOTE

- Please do not perform the reset (Z) report during the business hour as it clears stored sales data from the memory.
- Please see page E-49 for printout sample of a daily report.

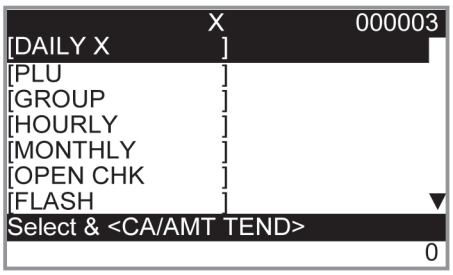
Printing various sales reports

The followings are the example operation for printing an electronic journal of February 28, 2013.

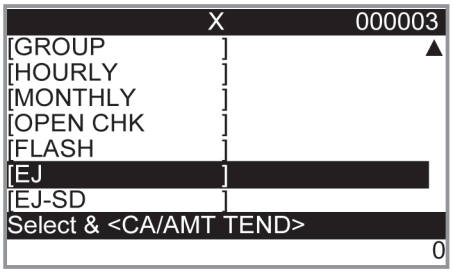


Step	Display

1 Turn the Mode switch to X or Z position. The display shows the top menu of sales reports.

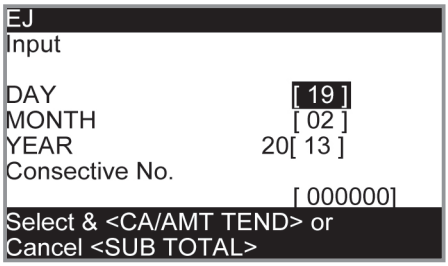


2 Using [↑] or [↓] keys select the report you wish to obtain. The example on the right is for selecting electronic journal. As it is the lowest column, [EJ] is hidden from the default top menu. Select it by keep pressing [↓] key.

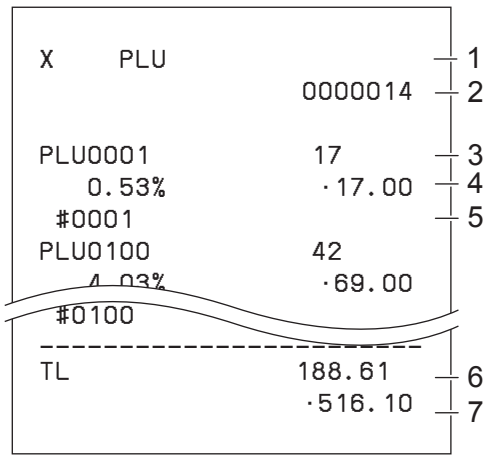


3 Press [CA/AMT TEND] key. The display shows the next screen asking date or consecutive number. Select [Date] and press [CA/AMT TEND] key.

4 Input year, month, and day from ten key pad. The journal of assigned date will be printed if you press [CA/AMT TEND] key.

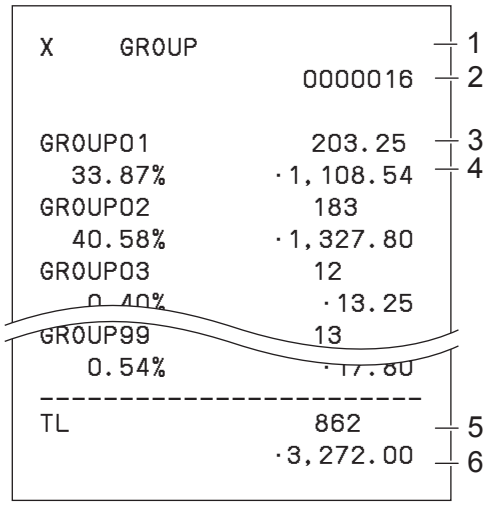


■ PLU sales report



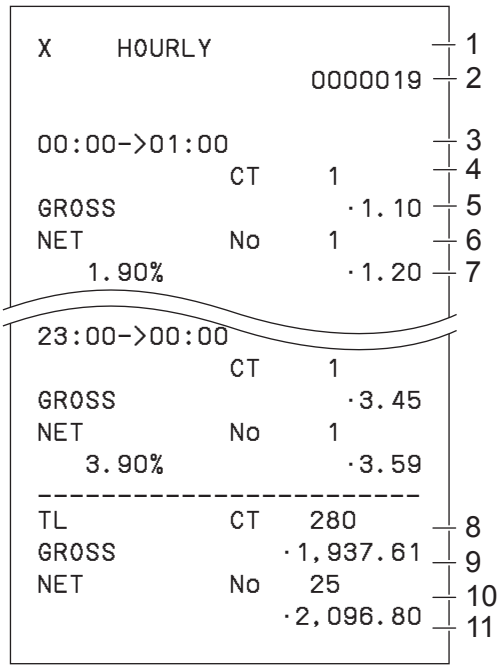
1 Read symbol/report title
2 Report code
3 PLU name/Quantity
4 Sales ratio/PLU amount
5 PLU code
6 Total Quantity
7 Total amount

■ Item group sales report



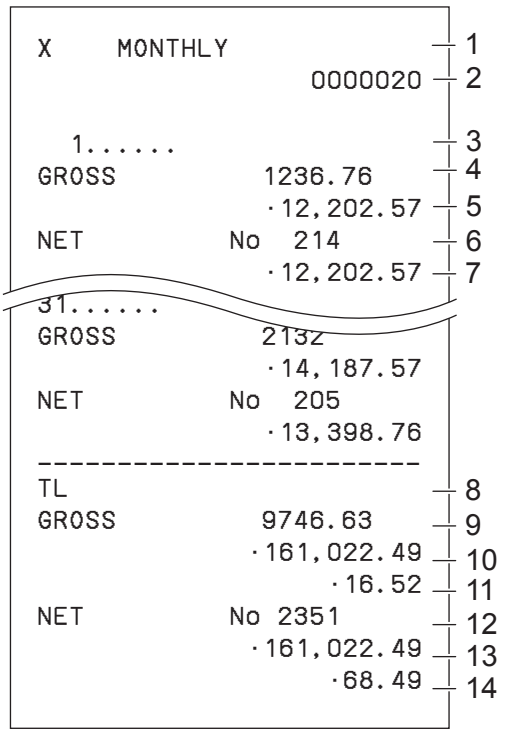
1 Read symbol/report title
2 Report code
3 Group No./Quantity
4 Sales ratio/group amount
5 Total quantity of group
6 Group total amount

■ Hourly sales report



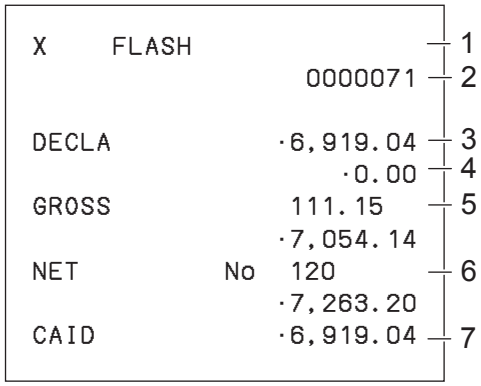
1 Read symbol/report title
2 Report code
3 Time zone
4 No. of customers
5 Gross sales amount
6 No. of receipts
7 Sales ratio/net sales amount
8 Total No. of customers
9 Gross total amount
10 Total No. of receipt
11 Net total amount

■ Monthly sales report



1 Read symbol/report title
2 Report code
3 Month
4 Gross symbol/Quantity
5 Gross sales amount
6 Net symbol/No. of customers
7 Net sales amount
8 Total symbol
9 Gross symbol/Quantity
10 Gross sales amount
11 Daily gross sales average
12 Net symbol/No. of customers
13 Net sales amount
14 Daily net sales average

■ Flash report



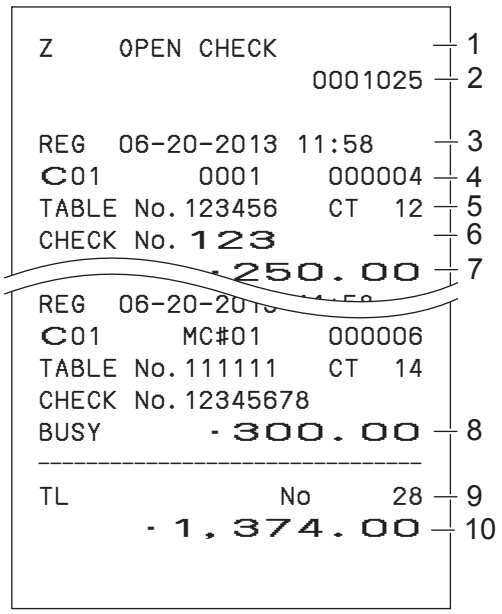
1 Read report symbol/report title
2 Report code
3 Declared amount
4 Difference
5 Gross total
6 Net total
7 Cash in drawer

About “Declared money” and “Cash in drawer”

If you programmed the register to force entry of total amount in drawer, you need to count the money in the drawer and input the amount (money declaration) before read (X) or reset (Z) report printing. On the other hand, “Cash in drawer” is the total money in the drawer calculated by the register so that you can compare the actual amount and the calculated amount.

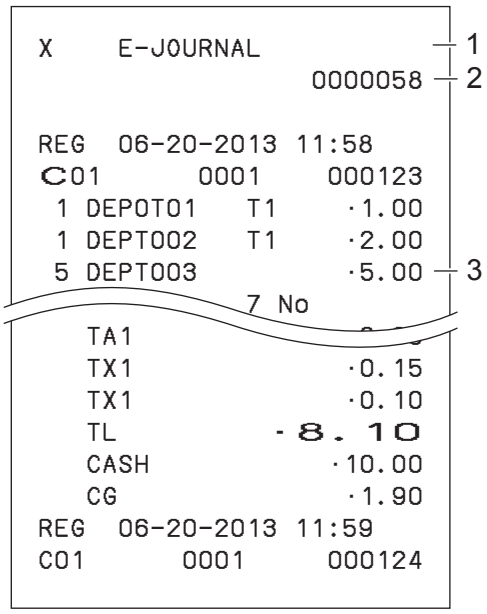
To program money declaration, please see page E-85.

■ Open check report



1 Report header/title
2 Report code
3 Mode symbol/date/time
4 Clerk descriptor/Mc- No./consecutive No.
5 Table No./No. of customer
6 Check No.
7 Subtotal amount
8 Print “BUSY”, if the check is currently opened.
9 No. of open check
10 Open check total

■ Electronic journal



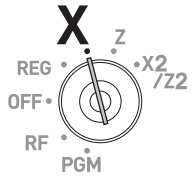
1 Report header/title
2 Report code
3 Journal image

About electronic journal

Instead of printing days’ sales journal, the register stores daily sales report in the memory and you can obtain the report by assigning day or consecutive number.

To print individual department, PLU, and Flat PLU

Instead of printing sales reports in a lump, you can obtain reports of specific departments, PLUs, or Flat PLUs.



Step

1 Turn the Mode switch to X position.

2 Just press department keys or enter PLU numbers.

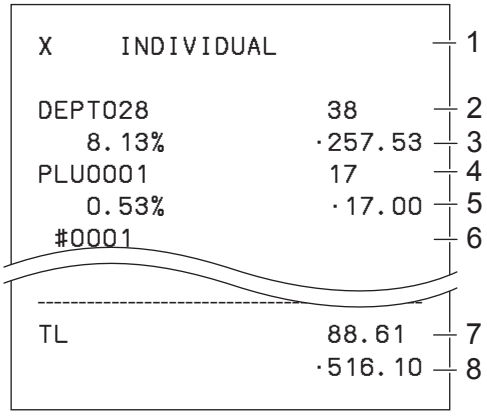
For example, [3] for Dept.003.

[1] [DEPT SHIFT/ DEPT#] [8] [9] [DEPT SHIFT/ DEPT#] for PLUs 1 and 89.

[001] [002] for flat PLUs 0001 and 0002.

3 Press [SUB TOTAL] key to exit from individual report printing.

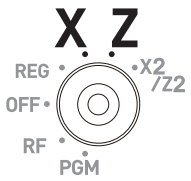
Printout



1: Read symbol/report title
2: Department Name/No. of items
3: Sales ratio/amount
4: PLU Name/No. of items
5: Sales ratio/PLU amount
6: PLU code
7: Total No. of items
8: Total amount

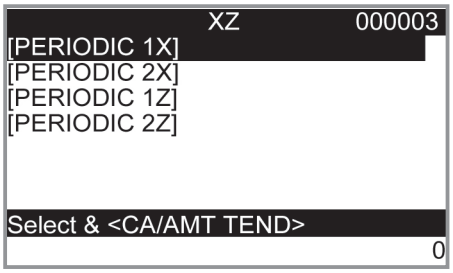
Periodic sales report

Apart from daily report, you can obtain periodic sales report. The register prints total sales data from the last periodic report. Namely, if you do this operation monthly, you can obtain monthly sales reports. The cash register allows you to obtain two kinds of periodic reports so that not only monthly reports, you can also get weekly reports.



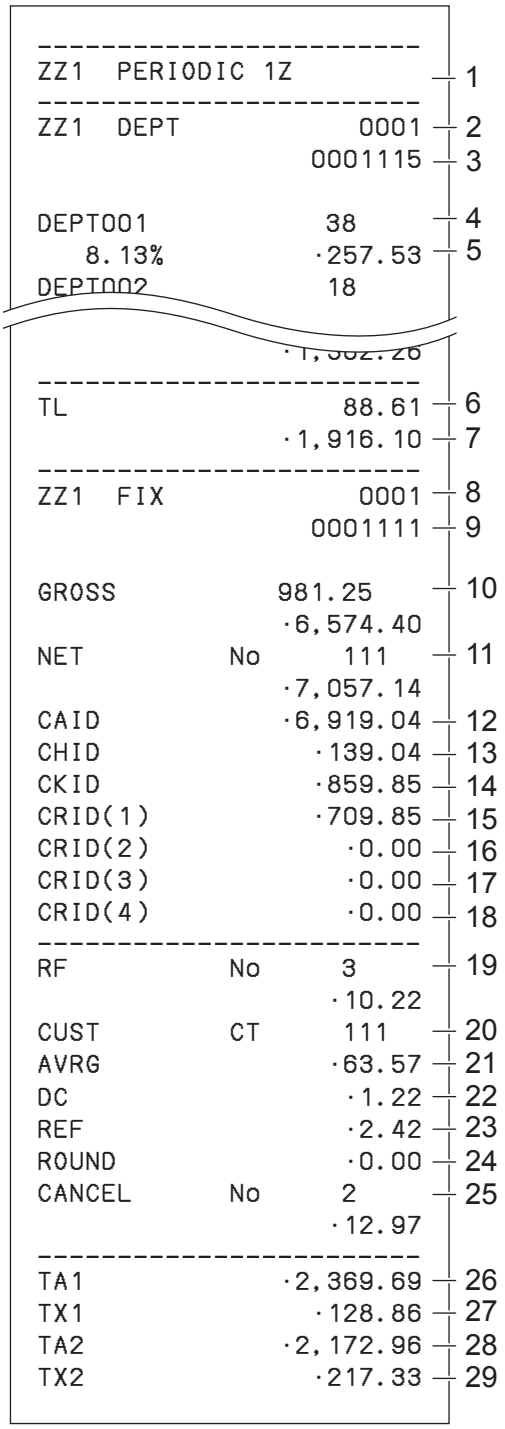
Step	Display

1 Turn the Mode switch to X2/Z2 position. The display shows report selection screen.

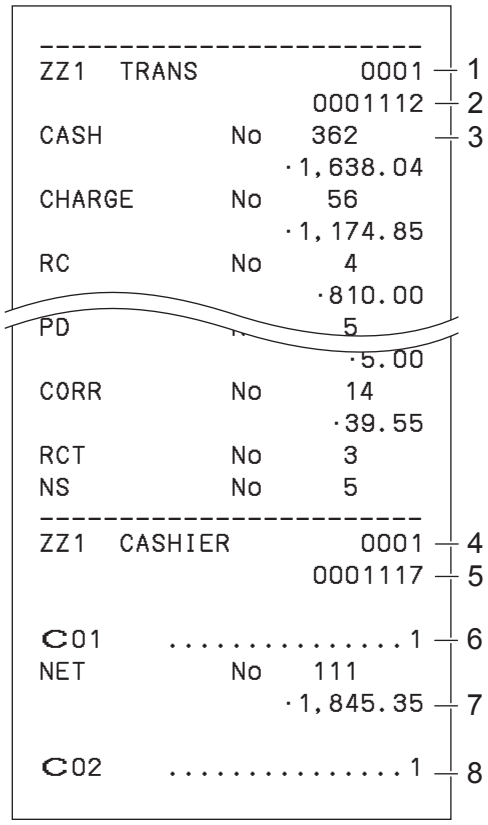


2 Select a report using [↑] or [↓] keys. Z1 and Z2 clear the accumulated data while X1 and X2 store the sales data remained.

3 Press [CA/AMT TEND] key. The printer prints our the periodic report.



1 Report title
2 Department report title/reset counter
3 Report code
4 Department Name/No. of items *1
5 Sales ratio/amount *1
6 Total No. of items
7 Total amount
8 Fixed total report title/reset counter
9 Report code
10 Gross total *2
11 Net total *2
12 Cash in drawer *2
13 Charge in drawer *2
14 Check in drawer *2
15 Credit in drawer 1 *2
16 Credit in drawer 2 *2
17 Credit in drawer 3 *2
18 Credit in drawer 4 *2
19 Refund mode *2
20 Customer number *2
21 Average sales per customer *2
22 Discount total *2
23 Refund key *2
24 Rounding total *2
25 Cancellation *2
26 Taxable 1 amount *2
27 Tax 1 amount *2
28 Taxable 2 amount *2
29 Tax 2 amount *2



1 Function key report title/reset counter
2 Report code
3 Function key count/amount *1
4 Clerk report title/reset counter
5 Report code
6 Clerk name
7 Net total
8 Clerk name

* [1] Zero totalled departments/functions (the amount and item numbers are both zero) are not printed.
* [2] These items can be skipped by programming.

Using an SD card

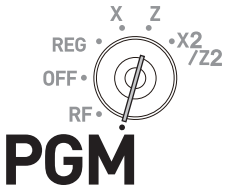
You can store sales data or program data to an SD card or you can restore the data from SD card to your cash register.
The following table explains what you can do with an SD card.

[Backup→SD]	Stores sales data and program data of register to SD card.
[Restore←SD]	Restores sales data and program data from SD card to register.
[Program→SD]	Stores all or certain program data to SD card.
[Program←SD]	Restores all or certain program data from SD card to register.
[Backup→Flash]	Stores program data into the register's built-in flash memory (for a case of power failure with flat batteries).
[SD Format]	Formats an SD for the first usage.

The following sections explain the operation examples of the features using an SD card.

To format an SD card

When you use a new SD card, you must format the SD card first.

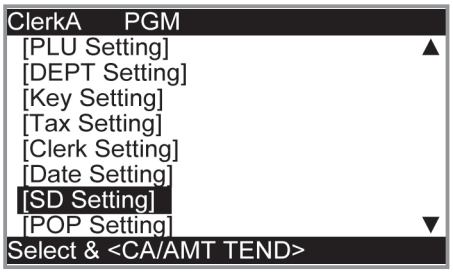


NOTE **All the data stored in the SD card will be cleared if you execute formatting.**

Step	Display

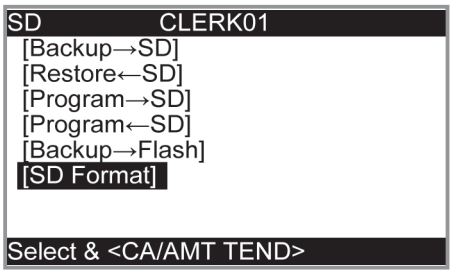
1 Insert an SD card into the SD card slot.

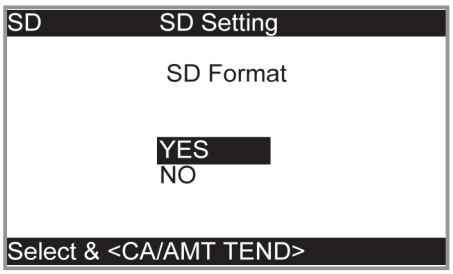
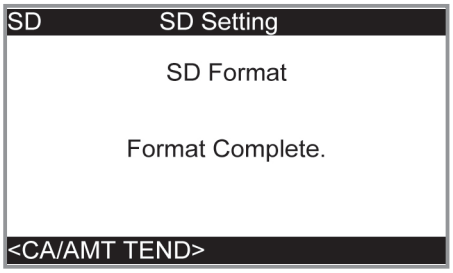
2 Turn the Mode switch to PGM position and select [SDcard Setting].



3 Press [CA/AMT TEND] key.

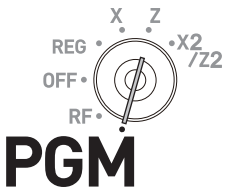
Select [SD Format] on the SD card setting screen.

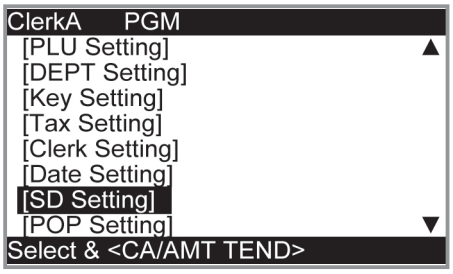
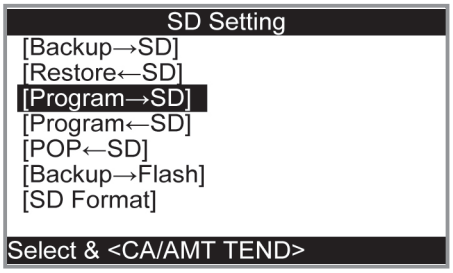


Step	Display
4 Select [YES] and press [CA/AMT TEND] key. The register starts to format the SD card.	
5 Now the SD card is formatted and you can use it for storing cash register data in it.	

To store program data in an SD card

The following operation explains how you can back up all the program data in an SD card.

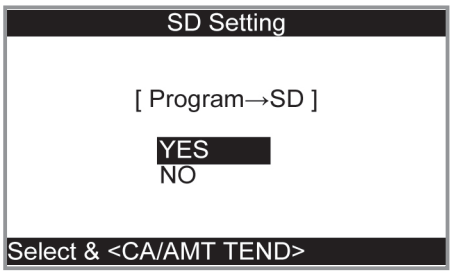


Step	Display
1 Insert an SD card into the SD card slot.	
2 Turn the Mode switch to PGM position and select [SDcard Setting]. Then press [CA/AMT TEND] key.	
3 Select [Program→SD] and press [CA/AMT TEND] key.	

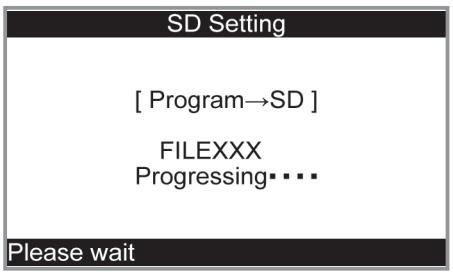
Step

Display

4 Select [YES] and press CA/AMT TEND key.



5 After for a while, the display indicates “Backup complete”.



Before you consider it as a problem

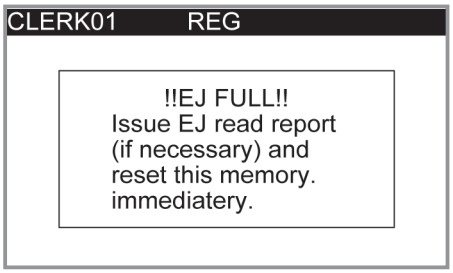
Error code table

Error code	Message	Meaning	Action
E001	Wrong mode	Mode switch position changed before finalization.	Return the mode switch to its original setting and finalize the operation.
E003	Wrong operator	The signed on clerk differs from the clerk performed the tracking check registration.	Input correct check number or assign the proper clerk number.
E004	Error INIT/FC	Initialization or unit lock clear operation in progress.	Complete operation.
E008	Please sign on	Registration without entering a clerk number.	Enter a clerk number.
E010	Close the drawer	The drawer is left open longer than the program time (drawer open alarm).	Close the drawer.
E011	Close the drawer	Attempt to register while the cash drawer is open.	Close the drawer.
E016	Change back to REG mode	Two consecutive transactions attempted in the refund mode.	Switch to another mode and then back to the RF mode for the next transaction.
E017	Enter CHK/TBL number	Attempt made to register an item without inputting a check number.	Input a check number.
E018	Enter Table number	Attempt made to register an item without inputting a table number.	Input a table number.
E019	Enter number of customers	Finalize operation attempted without entering the number of customer.	Enter the number of customer.
E021	No DEPT Link	No department linked PLU is registered.	Correct the program.
E026	Enter condiment/preparation PLU	No condiment/preparation PLU is registered.	Register condiment/preparation PLU.
E029	In the tender operation	Item registration is prohibited, while partial tender.	Finalize the transaction.
E031	Press ST key	Finalization of a transaction attempted without confirming the subtotal.	Press SUB TOTAL key.
E033	Enter tendered amount	Finalize operation attempted without entering amount tender.	Enter the amount tendered.
E035	Change amount exceeds limit	Change amount exceeds preset limit.	Input amount tendered again.
E036	Remove money from the drawer	Contents of the drawer exceed programmed limit.	Perform paidout operation.
E037	Digit or amount limitation over	High amount lock out/low digit lock out error	Enter correct amount.
E038	Perform money declaration	Read/reset operation without declaring cash in drawer.	Perform money declaration.
E040	Issue guest receipt	Attempt to register a new transaction without issuing a guest receipt.	Issue a guest receipt.
E046	REG buffer full	Registration buffer full.	Finalize the transaction.
E049	CHECK memory full	Check tracking index memory full.	Finalize and close the check number currently used.

Error code	Message	Meaning	Action
E050	DETAIL memory full	Check tracking detail memory full.	Finalize and close the check number currently used.
E051	CHK/TBL No. is occupied	Attempt to made use <New Check> to open a new check using a number that is already used for an existing check in check tracking memory.	Finalize and close the check that is currently under the number that you want to use or use a different check number.
E053	CHK/TBL No. is not opened	Attempt made to use <Old Check> reopen a new check using a number that is not used for an existing check in check tracking memory.	Use the correct check number (if you want to reopen a check that already exists in check tracking memory) or use <New Check> to open a new check.
E075	Negative balance cannot be finalized	Attempt to finalize a transaction when balance is less than or equal to zero.	Register item(s) until the balance becomes positive amount.
E101	PLU maintenance file full. Press <#2> to exit	Scanning PLU direct maintenance/ batch maintenance file becomes full.	Terminate the maintenance.
E103	PLU Code is not exist. Input the PLU Code	PLU code is not existed in the file.	Enter proper PLU code.
E105	PLU file full	Scanning PLU file full	Modify the designated item.
E106	Item exists in the PLU FILE	The designated item has already existed in the scanning PLU file.	
E112	Close the journal platen arm	The journal platen arm is opened.	Close the journal platen arm.
E114	Close the receipt platen arm	The receipt platen arm is opened.	Close the receipt platen arm.
E139	Negative balance is not allowed	Attempt to register <–> or <CPN> when the balance becomes negative.	Enter proper minus/coupon amount.
E146	Arrangement file full	Arrangement file is full.	Set the arrangement properly.
E200	Insert SD	SD is set.	Set SD.
E201	Illegal Format	Illegally formatted SD	Format the SD.
E202	File not found	The designated file is not found in the SD.	Enter proper file name.
E205	File already exist.	Can not write, because designated file has already been in the SD.	Check the operation and retry.

When “EJ FULL” sign appears on the display

When the register shows this sign, issue electronic journal read report (if necessary) and reset the memory immediately.



In case of power failure

If the power supply to the cash register is cut by a power failure or any other reason, simply wait for power to be restored. The details of any ongoing transaction as well as all sales data in memory are protected by the memory backup batteries. (This is the reason to install the batteries.)

- Power failure during a registration
  The subtotal for items registered up to the power failure is retained in memory. You will be able to continue with the registration when power is restored.
- Power failure during printing a read / reset report
  The data already printed before the power failure is retained in memory. You will be able to issue a report when power is restored.
- Power failure during printing of a receipt / journal
  Printing will resume after power is restored. A line that was being printed when the power failure occurred is printed in full.
- Other
  The power failure symbol is printed and any item that was being printed when the power failure occurred is reprinted in full.

In case the register is locked up

If you make a mistake in operation, the cash register may lock up to avoid damage to programs and preset data. Should it happens, you can use the following procedure to clear the lock up without losing any data.

1 Power off the register.

2 Insert the PGM key in the mode switch.

3 Press down RECEIPT FEED, and turn the mode switch to PGM mode.

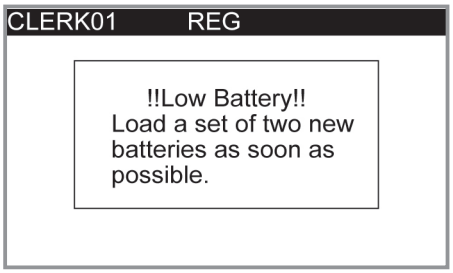
4 The display shows 0.00, then release RECEIPT FEED

5 Presss, SUB TOTAL then issue a receipt.

About the low battery indicator

If this indicator appears when you switch the cash register on, it can mean one of three things:

- No memory backup batteries are loaded in the cash register.
- The power of the batteries loaded in the unit is below a certain level.
- The batteries loaded in the unit are dead.



Important !

Whenever the low battery indicator appears on the display, load a set of two new batteries as soon as possible. If there is a power failure or you unplug the cash register when this indicator appears, you will lose all of your sales data and settings.

Be sure to keep the power cord of the cash register plugged in whenever you replace the batteries.

Category	No. of totalizers	Contents				Periodic totalizer
		Amount (10 digits)	No. of items (4 digits)	Count (4 digit)	No. of items (4 digits)	
Department	200	O *1	O *3			O
PLU	7000	O *1	O *3			
Hourly sales	24	O *1		O *4	O *5	
Monthly sales	31	O *1			O *5	
Clerk	50	O *1			O *5	
Transaction key & fix total	--	O *1 or O *3 or O *4 or O *5				O
Non resettable grand sales total	1	O *2				
Reset counter	8			O *4		O
Comsecutive No.	1				O *5	

* 1 -9,999,999.99 ~ 99,999,999.99
* 2 -9,999,999,999,999.99 ~ 99,999,999,999,999.99
* 3 -99,999.999 ~ 999,999.999
* 4 1 ~ 9999
* 5 1 ~ 999999

Specifications and design are subject to change without notice.

Specifications

Entry	10-key system, buffer memory 8 keys (2-key roll over)
Department	Full key system
Main display	26 characters x 10 lines, Dept. name, PLU name, Total, Transaction names, Change
Customer display	20 characters x 1 line. Amount 10 digits (zero suppression)

Printer

Receipt	Thermal alpha-numeric system 24 digits, receipt on/off key Store name or slogan is printed automatically
Journal	Thermal alpha-numeric system 24 digits Automatic take up roll winding
Paper roll	58 (W) × 80 (D) mm
Paper thickness	0.06 to 0.08 mm
Paper feed	Receipt and Journal
Print speed	About 14 l/s

Listing capacity

Amount	9999999999
Quantity	9999.999
Tendered amount	9999999999
Percent	99.99
Tax rate	9999.9999
Numbers	9999999999999999

Chronological data

Date print	Automatic date printout on receipt and journal, automatic calendar
Time print	Automatic time printout on receipt and journal, 24-hour system/12-hour system
Alarm	Key catch tone, error alarm
Memory protection battery	The effective service life of memory protection batteries (two new size AA manganese batteries) is approximately one year from installation into the machine.
Power supply/power consumption	See the rating plate.
Operation temperature	32˚F to 104˚F (0˚C to 40˚C)
Humidity	10 to 90%
Dimensions	220 mm (H) × 400 mm (W) × 450 mm (D) (8.6” (H) × 15.7” (W) × 17.7” (D))
Weight	10 kg (22 lbs.).