

ELECTRONIC CASH REGISTER

# CE-6100

GROCERY  
DAIRY  
H.B.A.



FROZEN  
FOOD  
DELICATESSEN

Eu

Di

U.K.

USER'S MANUAL

**CASIO**<sup>®</sup>

## Introduction

Congratulations on your selection of a CASIO CE-6100 electronic cash register. This ECR is the product of the world's most advanced electronic technology, for outstanding versatility and reliability.

Simplified operation is made possible by a specially designed keyboard layout and a wide selection of automated, programmable functions.

A specially designed keyboard layout and a bright, easy-to-read display help to take the fatigue out of long hours operation.

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.



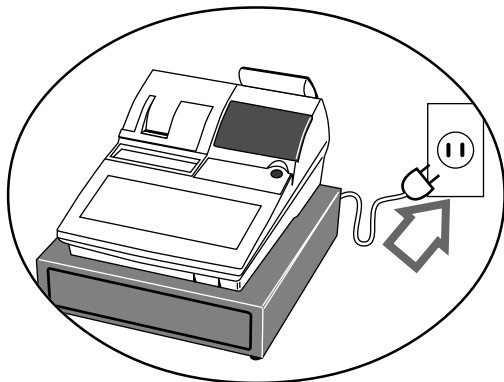
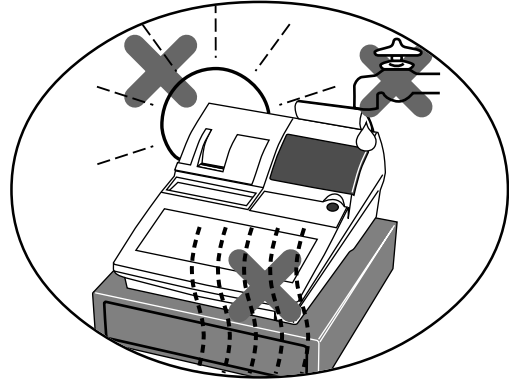
Casio Electronics Co., Ltd.  
Unit 6, 1000 North Circular Road  
London NW2 7JD, U.K.

*Please keep all information for future reference.*

## **Important!**

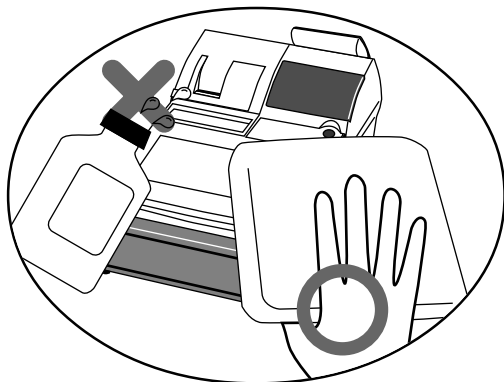
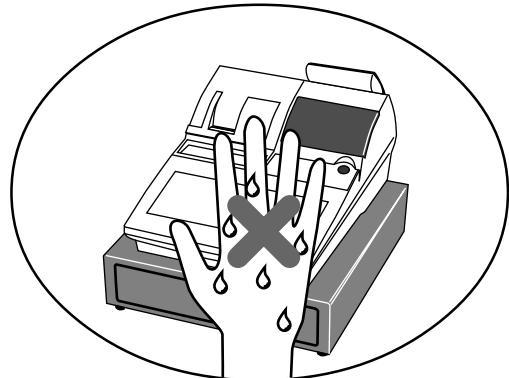
Your new cash register has been carefully tested before shipment to ensure proper operation. Safety devices eliminate worries about breakdowns resulting from operator errors or improper handling. In order to ensure years of trouble-free operation, however, the following points should be noted when handling the cash register.

*Do not locate the cash register where it will be subjected to direct sunlight, high humidity, splashing with water or other liquids, or high temperature (such as near a heater).*



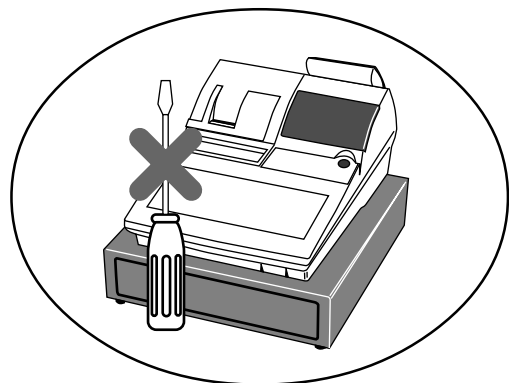
*Be sure to check the sticker on the side of the cash register to make sure that its voltage matches that of the power supply in the area.*

*Never operate the cash register while your hands are wet.*



*Use a soft, dry cloth to clean the exterior of the cash register. Never use benzene, thinner, or any other volatile agent.*

*Never try to open the cash register or attempt your own repairs. Take the cash register to your authorized CASIO dealer for repairs.*



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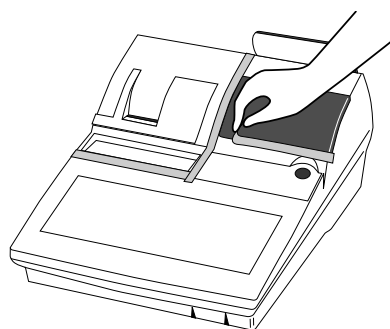
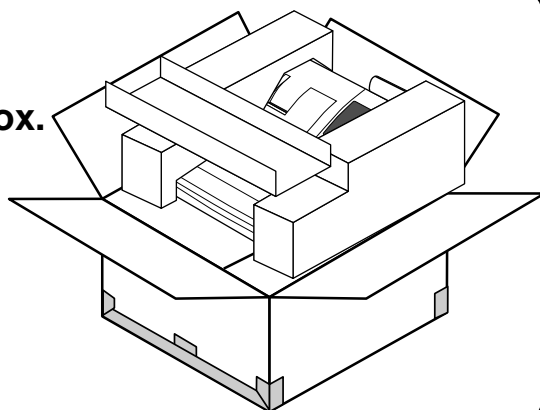
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# Getting Started

This section outlines how to unpack the cash register and get it ready to operate. You should read this part of the manual even if you have used a cash register before. The following is the basic set up procedure, along with page references where you should look for more details.

- 1. Remove the cash register from its box.**



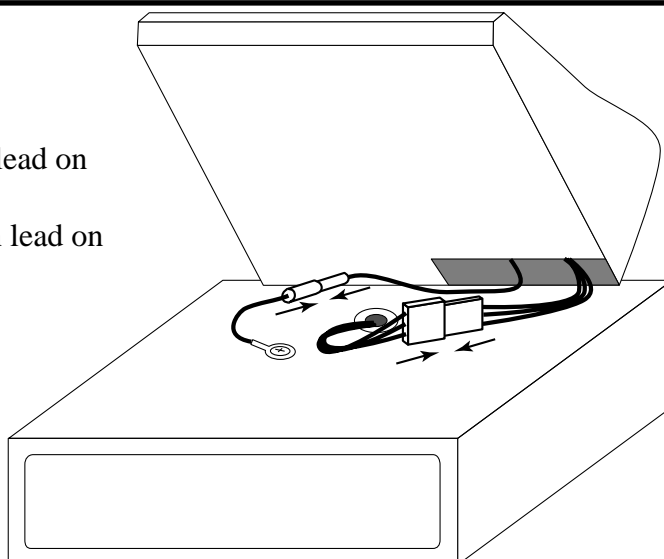
- 2. Remove the tape holding parts of the cash register in place.**

Also remove the small plastic bag taped to the printer cover. Inside you will find the mode keys.

- 3. Remove the cash drawer from its box.**  
The cash register and cash drawer are packed separately.

- 4. Connect the drawer.**

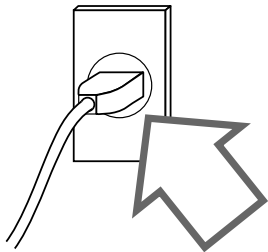
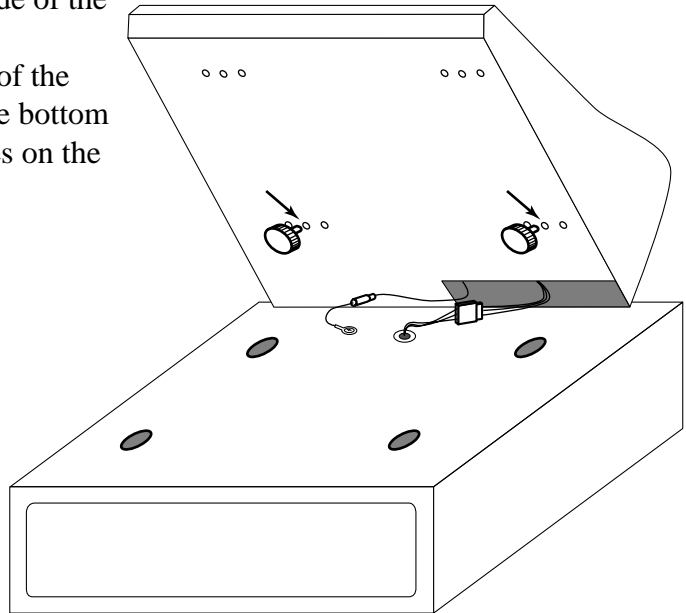
1. Connect drawer connector (three color lead on drawer) to the cash register.
2. Connect frame drawer connector (green lead on drawer) to the cash register.





## 5. Mount the cash register.

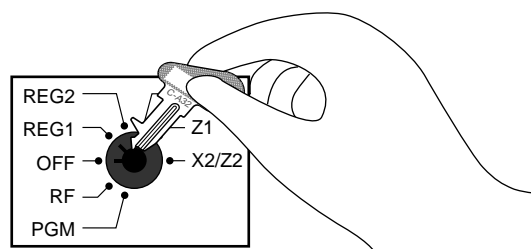
1. Screw in 2 fixing screws bottom side of the register.
2. Mount the cash register on the top of the drawer, ensuring that the feet on the bottom of the cash register go into the holes on the drawer.



## 6. Plug the cash register into a wall outlet.

Be sure to check the sticker on the side of the cash register to make sure that its voltage matches that of the power supply in your area. The printer will operate for a few seconds. Please do not pass the power cable under the drawer.

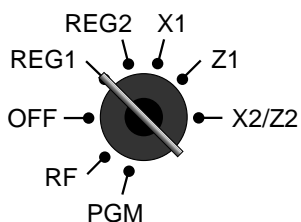
## 7. Insert the mode key marked "OW" into the mode switch.



## 8. Install receipt/journal paper.

### Loading journal paper

The same type of paper (45 mm × 83 mm i.d.) is used for receipts and journal. Load the new paper before first operating the cash register or when red paper appears from the printer.



1

Use a mode key to set the mode switch to REG1 position.



2

Open the printer cover.



5

Drop the paper roll gently and insert paper to the paper inlet.



3

Cut off the leading end of the paper so it is even.



6

Press the **JOURNAL FEED** key until about 20 cm to 30 cm of paper is fed from the printer.



4

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



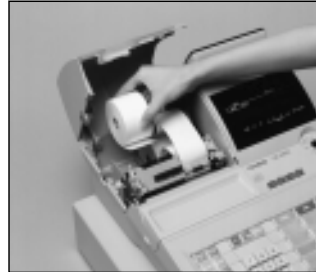
7

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.

## Loading receipt paper

Follow steps ① through ③ under “Loading journal paper” on the previous page.

④



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



⑤



Drop the paper roll gently and insert paper to the paper inlet.

⑥



Press the **RECEPT FEED** key until about 20 cm to 30 cm of paper is fed from the printer.

⑦



Set the printer cover, passing the leading end of the paper through the paper outlet.

Close the printer cover and tear off the excess paper.

⑧



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

⑨



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

⑩

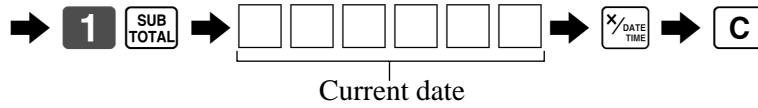
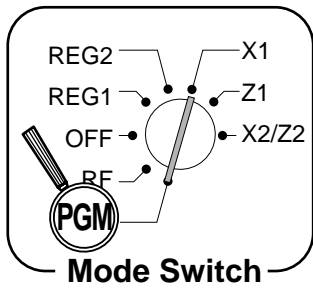


Close the printer cover.

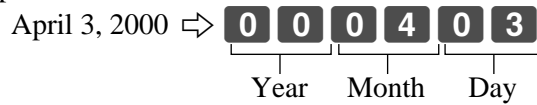
### **Important!**

Never operate the cash register without paper. It can damage the printer.

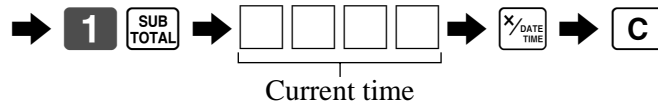
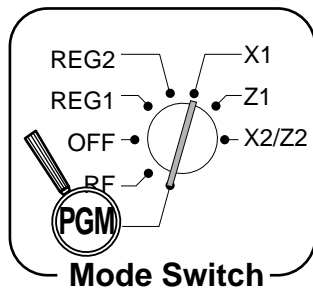
## 9. Set the date.



Example:



## 10. Set the time.



Example:

08:20 AM ⇒ [0][8][2][0]

09:45 PM ⇒ [2][1][4][5]

(24-hour military time)

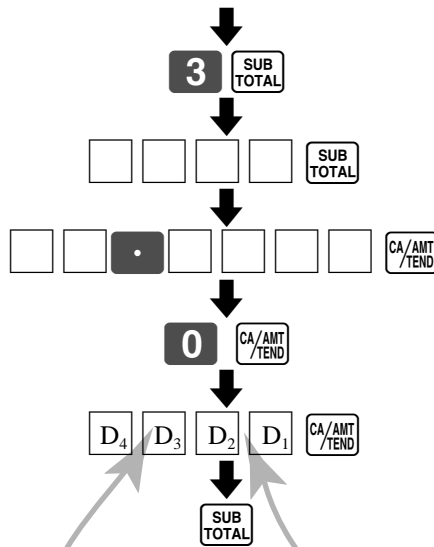
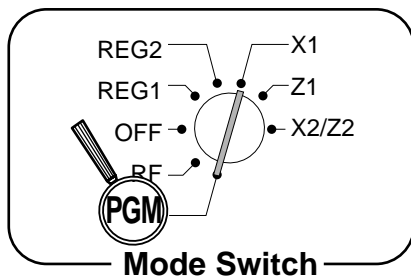
# 11. Tax table programming

## Programming automatic tax calculation

### Important!

After you program the tax tables, you also have to individually specify which departments (page 28) and PLUs (page 30) are to be taxed.

### Programming procedure



- Tax table 1 = 0 1 2 5
  - Tax table 2 = 0 2 2 5
  - Tax table 3 = 0 3 2 5
  - Tax table 4 = 0 4 2 5
- (for Singapore, tax table 1 ~ 3 can be used.)

Tax rate (4-digit for integer + 4-digit for decimal)

Tax table maximum value ("0" means unlimited).

Rounding/tax table system code <sup>\*1</sup>

<sup>\*1</sup> Rounding/tax table system code

#### Rounding code specification

D <sub>4</sub>	D <sub>3</sub>	Rounding
5	0	Rounding off two decimal places
9	0	Rounding up to two decimal places
0	0	Cut off to two decimal places

#### Tax system code specification

D <sub>2</sub>	Rounding
4	Singapore rounding

#### Tax system code specification

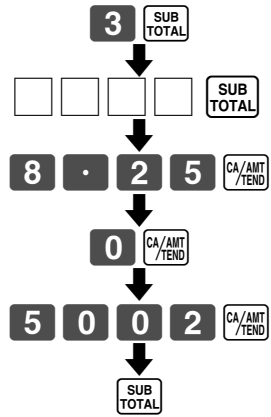
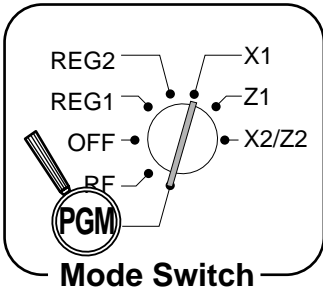
D <sub>1</sub>	Rounding
2	Add-on tax rate
3	Add-in tax rate (VAT)
4	Tax on tax (Singapore tax)

## Tax table programming (continued...)

### Example 1, Add-on rate tax:

#### Programming procedure:

Tax rate (4-digit for integer + 4-digit for decimal) ..... 8.25%  
 Rounding/tax table system code ..... 5002 (Round off)



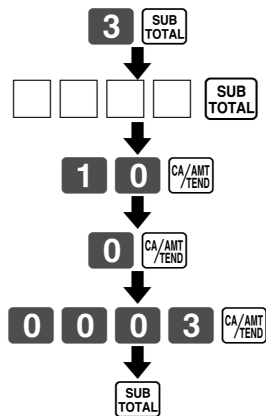
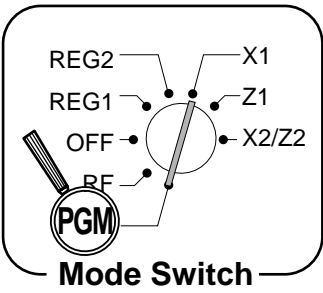
{ Tax table 1 = **0 1 2 5**  
 Tax table 2 = **0 2 2 5** } (for Singapore,  
 Tax table 3 = **0 3 2 5** } tax 1 ~ 3 can be used.)  
 Tax table 4 = **0 4 2 5**

Tax rate (4-digit for integer + 4-digit for decimal)  
 Always "0"  
 Rounding/tax table system code

### Example 2, Add-in rate tax:

#### Programming procedure:

Tax rate (4-digit for integer + 4-digit for decimal) ..... 10.00%  
 Rounding/tax table system code ..... 0003 (Cut off)



{ Tax table 1 = **0 1 2 5**  
 Tax table 2 = **0 2 2 5** } (for Singapore, tax table 1 ~ 3  
 Tax table 3 = **0 3 2 5** } can be used.)  
 Tax table 4 = **0 4 2 5**

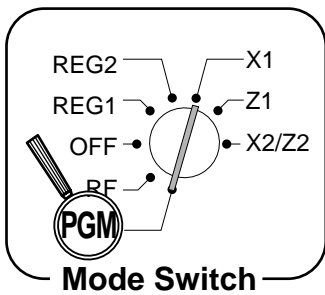
Tax rate (4-digit for integer + 4-digit for decimal)  
 Always "0"  
 Rounding/tax table system code

## Tax table programming (continued...)

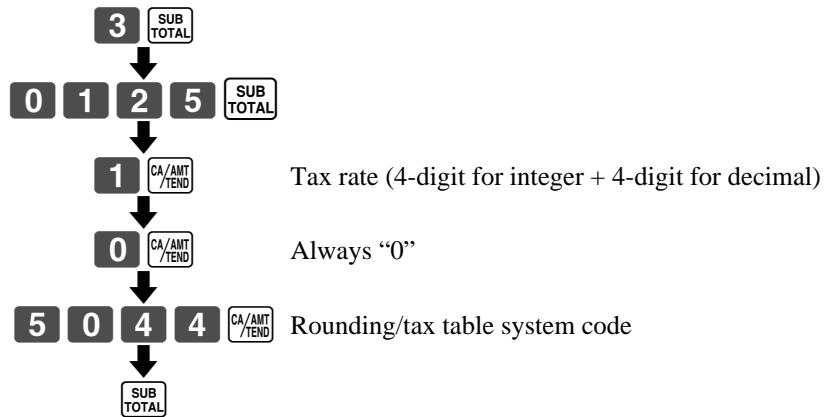
### Example 3, Singapore tax:

#### Programming procedure:

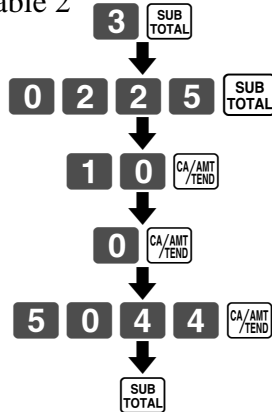
Tax table 1	
Country tax .....	1%
Round off/tax on tax .....	5044
Tax table 2	
Service charge .....	10%
Round off/tax on tax .....	5044
Tax table 3	
GST .....	3%
Rounding off .....	5002



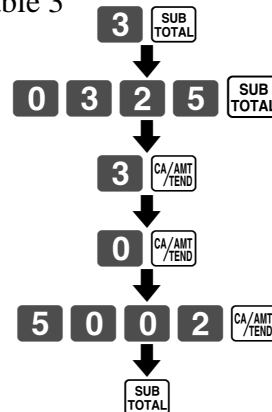
#### Tax table 1



#### Tax table 2



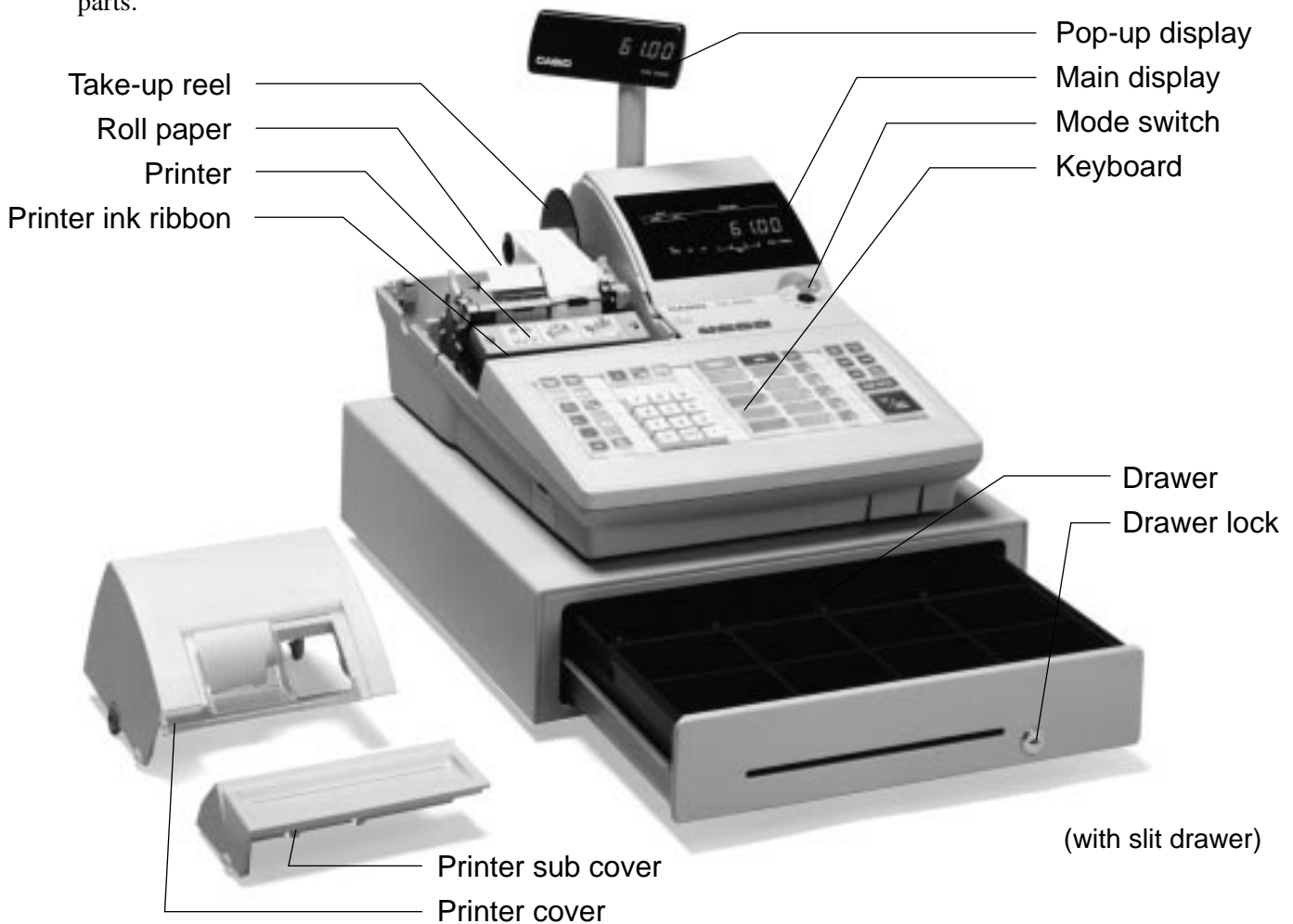
#### Tax table 3



# Introducing CE-6100

## General guide

This part of the manual introduces you to the cash register and provides a general explanation of its various parts.



### Roll paper

You can use the roll paper to print receipts and a journal (pages 10 ~ 11).

### Printer ink ribbon

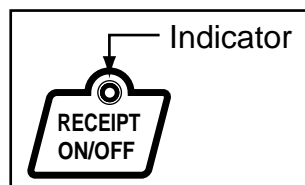
Provides ink for printing of registration details on the roll paper (page 97).

### Receipt on/off switch / key

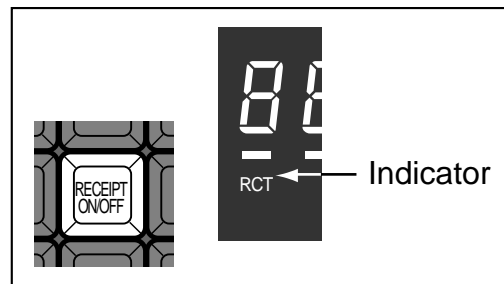
Use the receipt on/off switch/key in REG1, REG2 and RF modes to control issuance of receipts. In other modes, receipts or reports are printed regardless the receipt switch/key setting.

A post-finalization receipt can still be issued after finalization when the switch/key is set to off. The cash register can also be programmed to issue a post-finalization receipt even when the switch/key is set to on.

### Receipt on/off switch



### Receipt on/off key

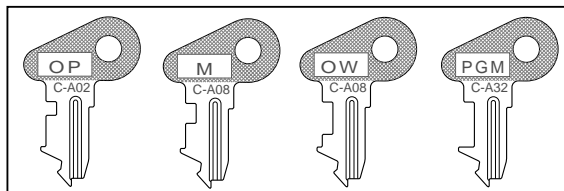


When the register issues receipts, this indicator is lit.



### Mode key (only for U.K)

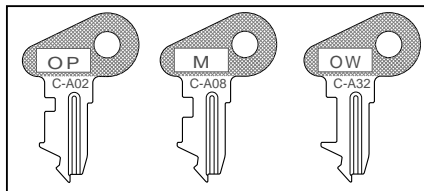
The following four types of mode keys are provided with the unit in the United Kingdom.



- a. OP (Operator) key  
Switches between OFF and REG1.
- b. M (Master) key  
Switches between OFF, REG1, REG2, X1 and RF.
- c. OW (Owner) key  
Switches between OFF, REG1, REG2, X1, Z1, X2/Z2 and RF.
- d. PGM (Program) key  
Switches to any position.

### Mode key (for other area)

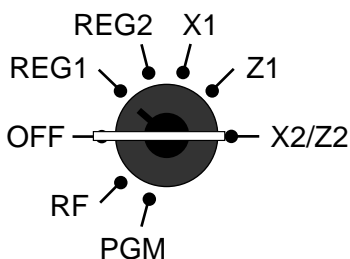
The following three types of mode keys are provided with the unit in areas outside of the United Kingdom.



- a. OP (Operator) key  
Switches between OFF and REG1.
- b. M (Master) key  
Switches between OFF, REG1, REG2, X1 and RF.
- c. OW (Owner) key  
Switches to any position.

### Mode switch

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



Mode switch	Mode name	Description
OFF	Stand-by	Any of the mode control keys can be inserted and removed from the mode switch in this position.
REG1	Register 1	Used for normal sales transactions. Any of the mode control keys can be inserted and removed from the mode switch in this position.
REG2	Register 2	Used for special operations. Since switching to REG2 requires a special key, such functions as discounts, credit sales, charge sales, check payments, and paid outs can be controlled by programming them as prohibited in REG1 and allowed in REG2.
RF	Refund Reg minus	Used for processing refunds. When the mode switch of the register is in RF position, you can access either the refund mode or the register minus mode.
X1	Daily sales read	Used to obtain daily reports without resetting (clearing) all total data.
Z1	Daily sales reset	Used to obtain daily reports while resetting (clearing) all total data.
X2/Z2	Periodic sale read/reset	Used to obtain periodic sales reports without resetting total data or while resetting all total data.
PGM	Program	Used when programming functions and preset data such as unit prices and tax rates. Also used when reading program data.

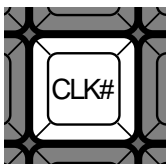
# Introducing CE-6100

## Clerk key/button/lock

In Germany, you can assign clerks by using clerk key or by clerk secret number (clerk key is equipped). In other areas, you can assign clerks by using clerk button or by clerk secret number. The method you are assigning clerk depends on the programming of your cash register.

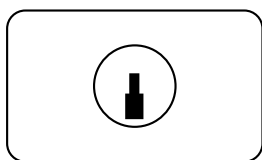
## Clerk secret number key

When the cash register is programmed to use clerk secret numbers for clerk or cashier assignment, the clerk buttons are not functional.

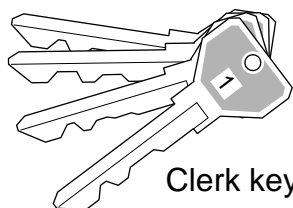


## Clerk lock/key

You can assign the clerk or cashier inserting a clerk key into the clerk lock.



Clerk lock



Clerk key

## Clerk button

You can assign the clerk or cashier using the four buttons located below the display panel.



## Drawer

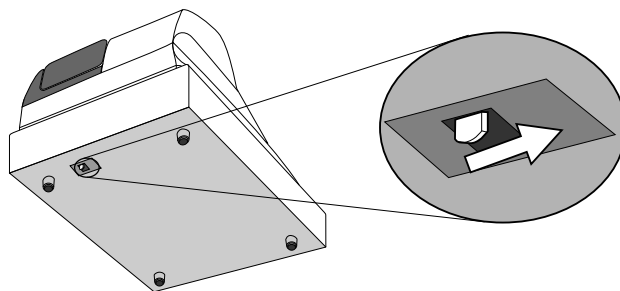
The drawer opens automatically whenever you finalize a registration and whenever you issue a read or reset report. The drawer will not open if it is locked with the drawer key.

## Drawer lock

Use the drawer key to lock and unlock the drawer.

### 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.



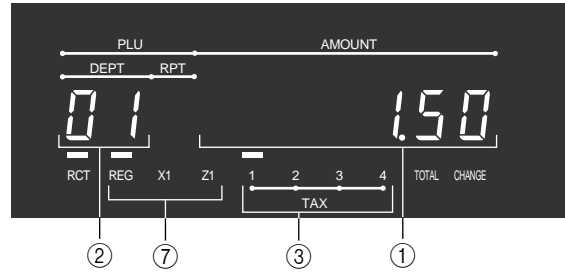
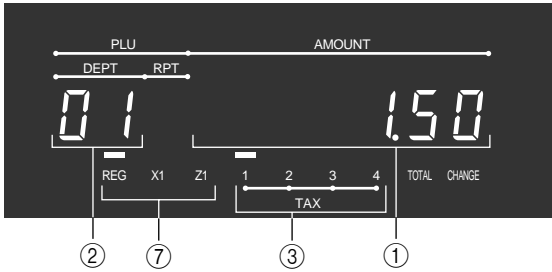
# Introducing CE-6100

## Display

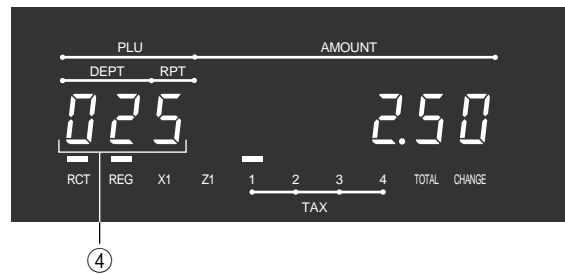
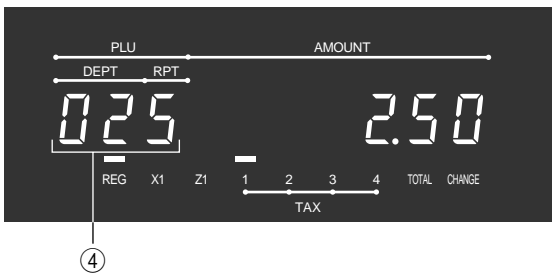
### Main display except for Germany

### Main display for Germany

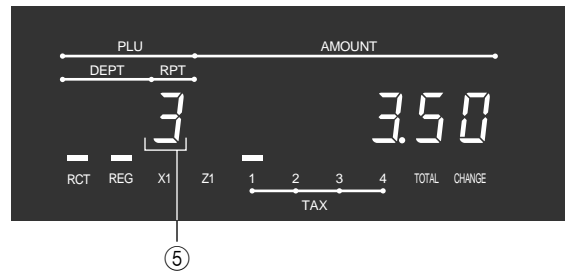
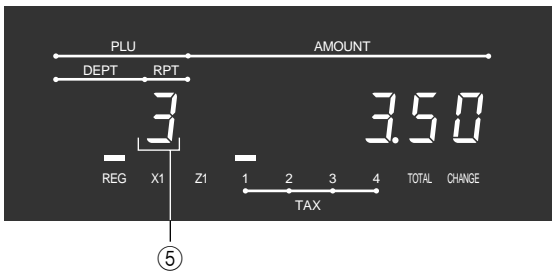
#### Department registration



#### PLU registration



#### Repeat registration



#### Totalize operation



## Customer display for all area



### ① Amount/Quantity

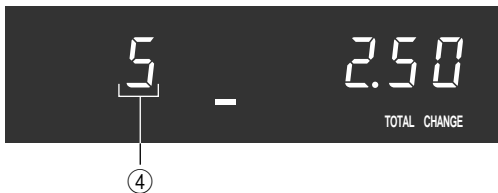
This part of the display shows monetary amounts. It also can be used to show the current date and time.

### ② Department number

When you press a department key to register a unit price, the corresponding department number (01 ~ 15) appears here.

### ③ Taxable sales status indicators

When you register a taxable item, the corresponding indicator is lit.

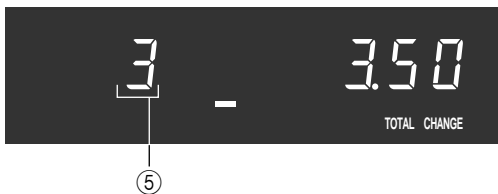


### ④ PLU number

When you register a PLU item, the corresponding PLU number appears here.

### ⑤ Number of repeats

Anytime you perform a repeat registration (page 27), the number of repeats appears here. Note that only one digit is displayed for the number of repeats. This means that a "5" could mean 5, 15 or even 25 repeats.



### ⑥ Total/Change indicators

When the TOTAL indicator is lit, the displayed value is monetary total or subtotal amount. When the CHANGE indicator is lit, the displayed value is the change due.



### ⑦ REG, X1, Z1 indicators

REG: Indicates register mode

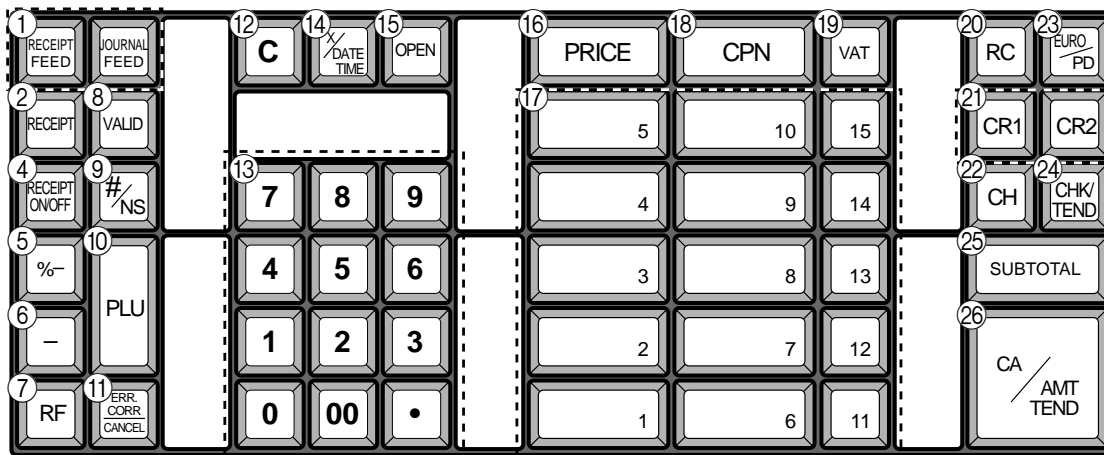
X1: Indicates daily sales read mode

Z1: Indicates daily sales reset mode

### ⑧ RCT indicator




















When the register issues receipts, this indicator is lit.

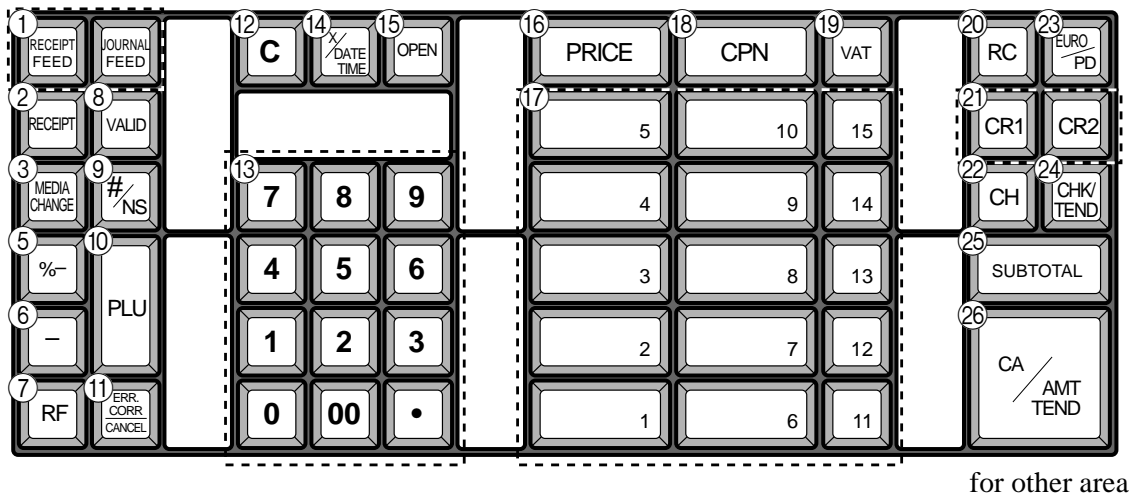
## Keyboard



for German

### • Register Mode

- ① **Paper feed key** ,   
Hold this key down to feed paper from the printer.
- ② **Post receipt key**   
Use this key to produce a post-finalization receipt.
- ③ **Media change key**   
This key is used to change media in drawer amounts. Pressing this key enters media change operation.
- ④ **Receipt on/off key**   
Use this key pressing two times to change the status “receipt issue” or “no receipt.” In case of “receipt issue”, the indicator is lit.
- ⑤ **Discount key**   
Use this key to register discounts.
- ⑥ **Minus key**   
Use this key to input values for subtraction.
- ⑦ **Refund key**   
Use this key to input refund amounts and void certain entries.
- ⑧ **Validation key**   
Use this key to validate transaction amounts on slip.
- ⑨ **Non-add/No sale key**   
Non-add 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 key: Use this key to open the drawer without registering anything.
- ⑩ **PLU key**   
Use this key to input PLU numbers.
- ⑪ **Error correction/Cancellation key**   
Use this key to correct registration errors and to cancel registration of entire transactions.
- ⑫ **Clear key**   
Use this key to clear an entry that has not yet been registered.
- ⑬ **Ten key pad** ,  ~ , ,   
Use these keys to input numbers.
- ⑭ **Multiplication/Date/Time key**   
Use this key to input a quantity for a multiplication operation. Between transactions, this key displays the current time and date.



⑮ **Open key**

This key releases maximum amount limit or low digit limit for an amount which exceeds the limit.

⑯ **Price key**

Use this key to register an amount to an open PLU when a PLU is used as an open PLU.

⑰ **Department keys** , ,  ~

Use these keys to register items to departments.

⑱ **Coupon key**

Use this key to register coupon. The registered coupon amount is deducted from the department, PLU, gross and net totalizers.

⑲ **VAT key**

Use this key to print a VAT breakdown.

⑳ **Received on account key**

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

㉑ **Credit key** ,

Use this key to register a credit sale.

㉒ **Charge key**

Use this key to register a charge sale.

㉓ **Euro/Paid out key**

**Euro key:** 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.

**Paid out key:** Use this key following a numeric entry to register money paid out from the drawer.

㉔ **Check key**

Use this key to register a check tender.

㉕ **Subtotal key**

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

㉖ **Cash/Amount tendered key**

Use this key to register a cash tender.

## How to read the printouts

- The journal and 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 (page 57).

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.
  - Consecutive number
  - Taxable status
  - Taxable amount
  - Item counter

**Receipt Sample**

```

*****
* THANK YOU *
** CALL AGAIN **
*****

* COMMERCIAL MESSAGE *
* COMMERCIAL MESSAGE *
* COMMERCIAL MESSAGE *
* COMMERCIAL MESSAGE *

REG 03-04-2000 11:58
C01 MC#01 000123

1 DEPT01 T1 -1.00
1 DEPT02 T1 -2.00
5 DEPT03 -5.00

7 No
TA1 -3.00
TX1 -0.15
TL -8.15
CASH -10.00
CG -1.85

*** BOTTOM MESSAGE ***
*** BOTTOM MESSAGE ***
*** BOTTOM MESSAGE ***
*** BOTTOM MESSAGE ***
    
```

Logo message

Commercial message

Mode/Date/Time

Clerk/Machine No.  
Consecutive No.

Q'ty/Item

Item counter

Bottom message

**Journal Sample  
(Item lines Included)**

```

REG 03-04-2000 11:58
C01 MC#01 000123
1 DEPT01 T1 -1.00
1 DEPT02 T1 -2.00
5 DEPT03 -5.00

7 No
TA1 -3.00
TX1 -0.15
TL -8.15
CASH -10.00
CG -1.85

REG 03-04-2000 11:59
C02 MC#01 000124
1 DEPT01 T1 -1.00
1 DEPT03 T1 -3.00
1 DEPT02 T1 -2.00
1 DEPT04 T1 -4.00
5 DEPT05 -5.00

9 No
TA1 -10.00
TX1 -0.50
TL -15.50
CASH -20.00
CG -4.50
    
```

**Journal Sample  
(Item lines Skipped)**

```

REG 03-04-2000 11:57
C01 MC#01 000123
7 No
TA1 -3.00
TX1 -0.15
TL -8.15
CASH -10.00
CG -1.85

REG 03-04-2000 11:57
C02 MC#01 000124
9 No
TA1 -10.00
TX1 -0.50
TL -15.50
CASH -20.00
CG -4.50

REG 03-04-2000 11:58
C01 MC#01 000125
7 No
TA1 -3.00
TX1 -0.15
TL -9.35
CASH -10.00
CG -0.65

REG 03-04-2000 11:57
    
```

*In the operation examples contained in this manual, the print samples are what would be produced if the roll paper is being used for receipts. They are not actual size. Actual receipts are 45 mm wide. Also, all sample receipts and journals are printout images.*



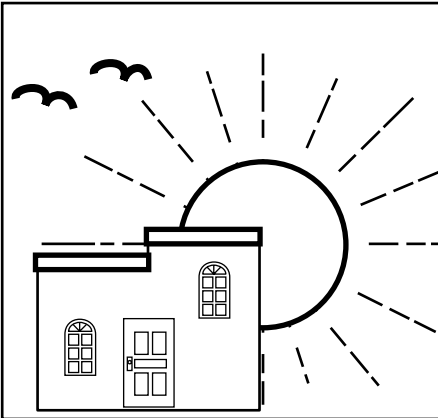
---

# 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 business hours...

---

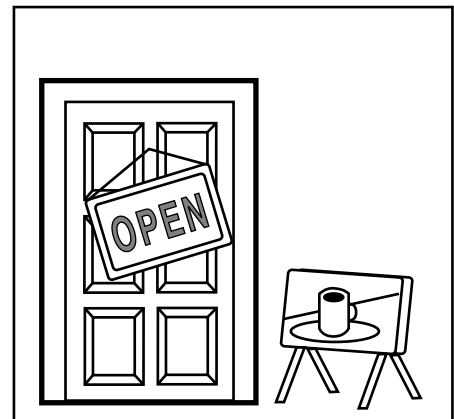


- Check to make sure that the cash register is plugged in securely. Page 9
- Check to make sure there is enough paper left on the roll. Pages 10, 11
- Read the financial totals to confirm that they are all zero. Page 83
- Check the date and time. Page 26

## DURING business hours...

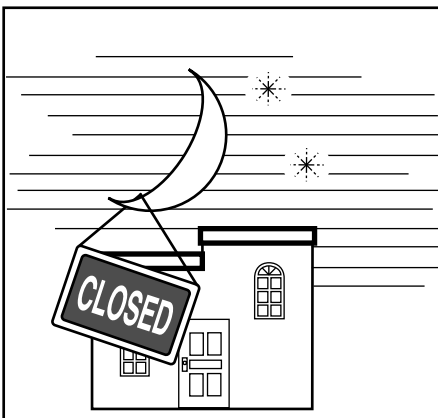
---

- Register transactions. Page 27
- Periodically read totals. Page 82



## AFTER business hours...

---



- Reset the daily totals. Page 45
- Remove the journal. Page 98
- Empty the cash drawer and leave it open. Page 18
- Take the cash and journal to the office.





# Basic Operations and Setups

## Displaying the time and date


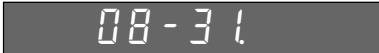






You can show the time or date on the display of the cash register whenever there is no registration being made.

### To display and clear the time

OPERATION	DISPLAY
 Time appears on the display	 Hour Minutes
 Clears the time display	

### To display and clear the date


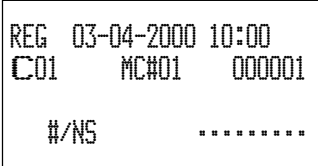
OPERATION	DISPLAY
 Time appears on the display	 (Time is displayed first)
 Date appears on the display	 Day Month Year
 Clears the date display	

## Preparing coins for change



You can use the following procedure to open the drawer without registering an item. This operation must be performed out of a sale. (You can use the **RC** key instead of the **#/NS** key. See page 44.)

### Opening the drawer without a sale

OPERATION	RECEIPT
	

# Preparing and using department keys

## Registering department keys



The following examples show how you can use the department keys in various types of registrations.

### Single item sale

#### Example 1

Item	Unit price	\$1.00
	Quantity	1
	Dept.	1
Payment	Cash	\$1.00

#### OPERATION

**1 00**  
Unit price

Unit price

**1**

Department

CA/AMT  
/TEND

#### RECEIPT

```
REG 03-04-2000 10:05
C01 MC#01 000002
1 DEPT01      -1.00
  TL          -1.00
  CASH        -1.00
```

Date/time

Mode/consecutive No.

Department No./unit price

Total amount

#### Example 2 (Subtotal registration and change computation)

Item	Unit price	\$12.34
	Quantity	1
	Dept.	1
Payment	Cash	\$20.00

#### OPERATION

**1 2 3 4**  
Unit price

Unit price

**1**

Department

**SUB  
TOTAL**

**2 0 00** CA/AMT  
/TEND

Amount tendered

#### RECEIPT

```
REG 03-04-2000 10:10
C01 MC#01 000003
1 DEPT01      -12.34
  TL          -12.34
  CASH        -20.00
  CG           7.66
```

Total amount

Amount tendered

Change

### Repeat

Item	Unit price	\$1.50
	Quantity	3
	Dept.	1
Payment	Cash	\$10.00

#### OPERATION

**1 5 0** **1**

**1**

**1**

**SUB  
TOTAL**

**1 0 00** CA/AMT  
/TEND

#### RECEIPT

```
REG 03-04-2000 10:15
C01 MC#01 000004
1 DEPT01      -1.50
1 DEPT01      -1.50
1 DEPT01      -1.50
  TL          -4.50
  CASH        -10.00
  CG           5.50
```

Repeat

Repeat

# Basic Operations and Setups

## Multiplication

Item	Unit price	\$1.00
	<b>Quantity</b>	<b>12</b>
	Dept.	1
Payment	Cash	\$20.00

**1** **2**  DATE TIME

Quantity  
(4-digit integer/2-digit decimal)

**1** **00** **1**

**2** **0** **00**  SUB TOTAL

CA/AMT/TEND

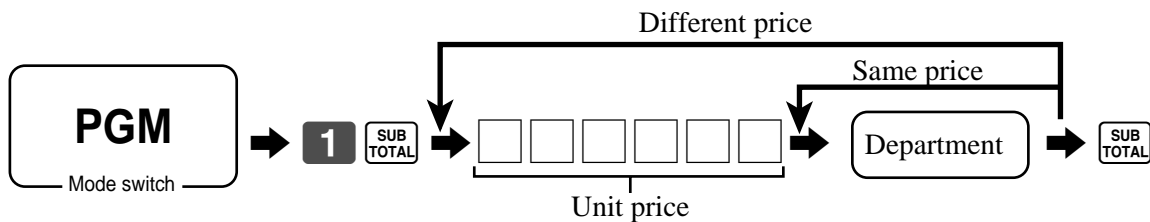
REG	03-04-2000	10:20
C01	MC#01	000005
12 DEPT01		+12.00
12	@1/ 1.00	+12.00
DEPT01		+12.00
TL		-12.00
CASH		+20.00
CG		+8.00

Quantity/result or \*  
Quantity/unit q'ty/@  
Result

\* See address 0522 of the general function program.

## Programming department keys

### To program a unit price for each department



### To program the tax calculation status for each department

#### Tax calculation status

This specification defines which tax table should be used for automatic tax calculation. See page 13 for information on setting up the tax tables.

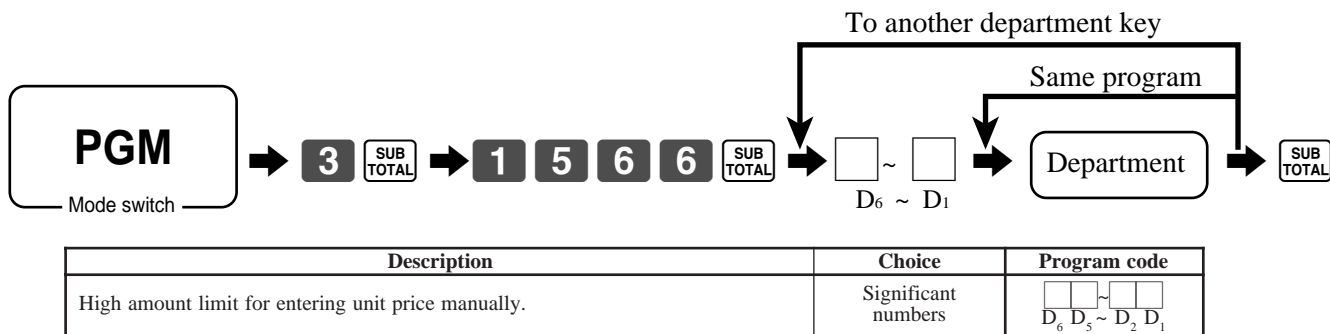
#### Programming procedure



for Singapore			
Always "0"			<input type="checkbox"/> D <sub>2</sub>
Taxable 1 status	a	Yes = 1 No = 0	<input type="checkbox"/> (a+b+c) D <sub>1</sub>
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for other area			
Non tax = 0	Taxable 4 = 4	Taxable 8 = 8	Significant numbers <input type="checkbox"/> D <sub>2</sub> <input type="checkbox"/> D <sub>1</sub>
Taxable 1 = 1	Taxable 5 = 5	Taxable 9 = 9	
Taxable 2 = 2	Taxable 6 = 6	Taxable 10 = 10	
Taxable 3 = 3	Taxable 7 = 7		

## To program high amount limit for each department

### Programming procedure



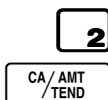
## Registering department keys by programming data



### Preset price

#### OPERATION

Item	Unit price	(\$1.00) <sub>preset</sub>
	Quantity	1
	Dept.	2
Payment	Cash	\$1.00



#### RECEIPT

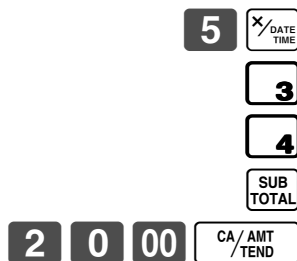
```
REG 03-04-2000 10:25
C01 MC#01 000006
1 DEPT02 -1.00
TL -1.00
CASH -1.00
```

Department No./unit price

### Preset tax status

#### OPERATION

Item 1	Unit price	(\$2.00) <sub>preset</sub>
	Quantity	5
	Dept.	3
	Taxable	(1) <sub>preset</sub>
Item 2	Unit price	(\$2.00) <sub>preset</sub>
	Quantity	1
	Dept.	4
	Taxable	(2) <sub>preset</sub>
Payment	Cash	\$20.00



#### RECEIPT

```
REG 03-04-2000 10:30
C01 MC#01 000007
5 DEPT03 T1 -10.00
1 DEPT04 T2 -2.00
TA1 -10.00
TX1 -0.40
TA2 -2.00
TX2 -0.20
TL -12.60
CASH -20.00
CG -7.40
```

Tax status

Taxable Amount 1

Tax 1

Taxable Amount 2

Tax 2

# Basic Operations and Setups

## Locking out high amount limitation

Item	Unit price	\$1.05
	Quantity	1
	Dept.	3
	Max.amount (\$10.00) <sub>preset</sub>	
Payment	Cash	\$2.00

**1 0 5 0** **3**

**ERROR ALARM (E037)**  
(Exceeding high amount)

**1 0 5** **3** **C**

**2 00** **SUB TOTAL**

**CA/AMT /TEND**

REG 03-04-2000 10:35  
C01 MC#01 000008

1 DEPT03 -1.05  
TL -1.05  
CASH -2.00  
CG -0.95

## Preparing and using PLUs

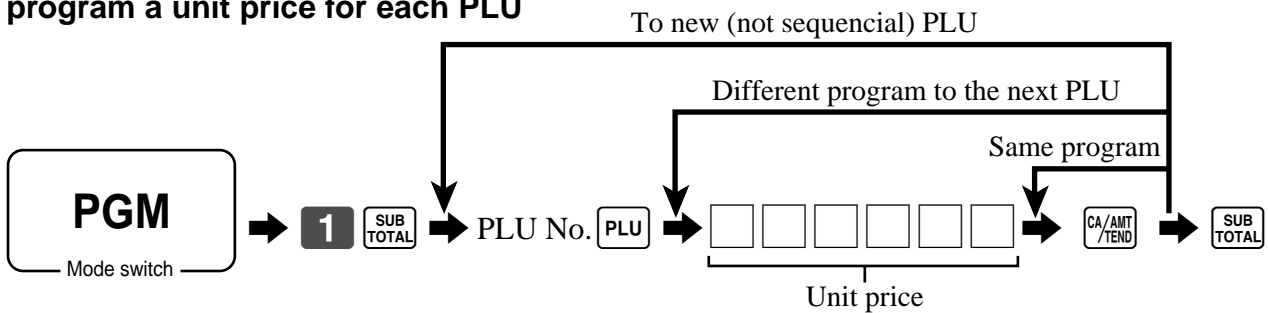
This section describes how to prepare and use PLUs.

### CAUTION:

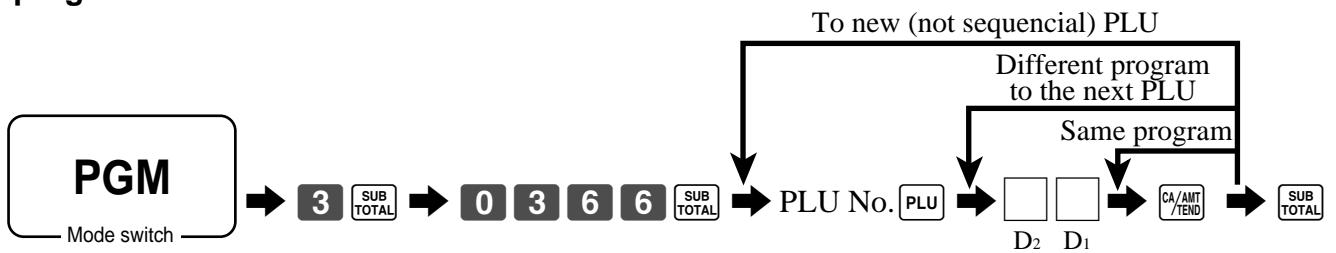
- Before you use PLUs, you must first program the unit price.

## Programming PLUs

### To program a unit price for each PLU



### To program tax calculation status for each PLU



for Singapore			
Always "0"			<b>0</b> D <sub>2</sub>
Taxable 1 status	a	Yes = 1 No = 0	<input type="checkbox"/> (a+b+c) D <sub>1</sub>
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for other area			
Non tax = 0	Taxable 4 = 4	Taxable 8 = 8	<input type="checkbox"/> D <sub>2</sub> D <sub>1</sub>
Taxable 1 = 1	Taxable 5 = 5	Taxable 9 = 9	
Taxable 2 = 2	Taxable 6 = 6	Taxable 10 = 10	
Taxable 3 = 3	Taxable 7 = 7	Significant numbers	

## Registering PLUs



The following examples show how you can use PLUs in various types of registrations.

### PLU single item sale

#### OPERATION

Item	Unit price	(\$2.50) <sub>preset</sub>
	Quantity	1
	<b>PLU</b>	<b>14</b>
Payment	Cash	\$3.00

**1 4**  
PLU code

**PLU**

**SUB TOTAL**

**3 00** CA/AMT TEND

#### RECEIPT

```
REG 03-04-2000 10:40
C01 MC#01 000009
1 PLU0014 -2.50
TL -2.50
CASH -3.00
CG -0.50
```

PLU No./unit price

### PLU repeat

#### OPERATION

Item	Unit price	(\$2.50) <sub>preset</sub>
	Quantity	3
	PLU	14
Payment	Cash	\$10.00

**1 4** **PLU**

**PLU**

**PLU**

**SUB TOTAL**

**1 0 00** CA/AMT TEND

#### RECEIPT

```
REG 03-04-2000 10:45
C01 MC#01 000010
1 PLU0014 -2.50
1 PLU0014 -2.50
1 PLU0014 -2.50
TL -7.50
CASH -10.00
CG -2.50
```

### PLU multiplication

#### OPERATION

Item	Unit price	(\$2.00) <sub>preset</sub>
	Quantity	10
	PLU	7
Payment	Cash	\$20.00

**1 0** **% DATE TIME**

Quantity  
(4-digit integer/2-digit decimal)

**7** **PLU**

**SUB TOTAL**

**2 0 00** CA/AMT TEND

#### RECEIPT

```
REG 03-04-2000 10:50
C01 MC#01 000011
10 PLU0007 -20.00
10 @1/ 2.00
PLU0007 -20.00
TL -20.00
CASH -20.00
CG -0.00
```

Quantity/result  
or \*

Quantity/unit q'ty/@  
Result

\* See address 0522 of the general function program.

## Printing VAT breakdowns

**REG**

Mode switch

The following example shows how to get VAT breakdown.

Any time you press the **VAT** key in a transaction, VAT breakdown is automatically printed out at the end of the transaction.

### Example

Item	Dept. 3	\$10.00
	Quantity	1
	Taxable	(1) <sub>preset</sub>
Payment	Cash	\$10.00

**1 0 00** **1**

**SUB TOTAL**

**VAT**

**1 0 00** **CA/AMT TEND**

REG 03-04-2000 10:55  
 C01 MC#01 000012

1 DEPT01 T1 -10.00  
 TA1 -9.62  
 TX1 -0.38  
 TL -10.00  
 CASH -10.00  
 CG -0.00

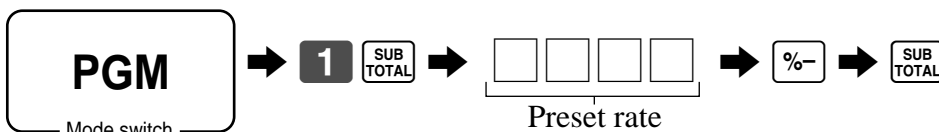
\* In case of every receipt needs VAT breakdown lines, select the finalize (**CA/AMT TEND**, **CH**, **CR1**, **CR2**, **CHK/TEND**) key status to "Invoice." Refer to page 65.

## Preparing and using discounts

This section describes how to prepare and register discounts.

### Programming discounts

To program a rate to the **%-** key

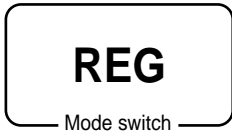


**Example:**

10% ⇨ **1 0**  
 5.5% ⇨ **5 . 5**  
 12.34% ⇨ **1 2 . 3 4**



## Registering discounts



The following example shows how you can use the **%-** key in various types of registration.

### Discount for items and subtotals

	OPERATION	RECEIPT																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="3">Item 1</td> <td>Dept. 1</td> <td>\$5.00</td> </tr> <tr> <td>Quantity</td> <td>1</td> </tr> <tr> <td>Taxable</td> <td>(1)<sub>preset</sub></td> </tr> <tr> <td rowspan="3">Item 2</td> <td>PLU 16</td> <td>(\$10.00)<sub>preset</sub></td> </tr> <tr> <td>Quantity</td> <td>1</td> </tr> <tr> <td>Taxable</td> <td>(2)<sub>preset</sub></td> </tr> <tr> <td><b>Discount</b></td> <td><b>Rate</b></td> <td><b>(5%)<sub>preset</sub></b></td> </tr> <tr> <td><b>Subtotal discount</b></td> <td><b>Rate</b></td> <td><b>3.5%</b></td> </tr> <tr> <td></td> <td><b>Taxable</b></td> <td><b>Nontaxable</b></td> </tr> <tr> <td>Payment</td> <td>Cash</td> <td>\$15.00</td> </tr> </table>	Item 1	Dept. 1	\$5.00	Quantity	1	Taxable	(1) <sub>preset</sub>	Item 2	PLU 16	(\$10.00) <sub>preset</sub>	Quantity	1	Taxable	(2) <sub>preset</sub>	<b>Discount</b>	<b>Rate</b>	<b>(5%)<sub>preset</sub></b>	<b>Subtotal discount</b>	<b>Rate</b>	<b>3.5%</b>		<b>Taxable</b>	<b>Nontaxable</b>	Payment	Cash	\$15.00	<p><b>5 00</b> <b>1</b> <b>%-</b></p> <p><b>1 6</b> <b>PLU</b></p> <p>Applies the preset discount rate to the last item registered.</p> <p><b>3 . 5</b> <b>%-</b></p> <p>The input value takes priority of the preset value.</p> <p><b>1 5 00</b> <b>CA/AMT TEND</b></p>	<pre> REG 03-04-2000 11:00 C01   MC#01   000013 1 DEPT01  T1    -5.00 1 PLU0016  T2   -10.00   5%   %-      -0.50   ST      -14.50   3.5%   %-      T2   -0.51   TA1     -5.00   TX1     -0.20   TA2     -9.50   TX2     -0.48   TL      -14.67   CASH    -15.00   CG      -0.33           </pre>
Item 1		Dept. 1	\$5.00																									
		Quantity	1																									
	Taxable	(1) <sub>preset</sub>																										
Item 2	PLU 16	(\$10.00) <sub>preset</sub>																										
	Quantity	1																										
	Taxable	(2) <sub>preset</sub>																										
<b>Discount</b>	<b>Rate</b>	<b>(5%)<sub>preset</sub></b>																										
<b>Subtotal discount</b>	<b>Rate</b>	<b>3.5%</b>																										
	<b>Taxable</b>	<b>Nontaxable</b>																										
Payment	Cash	\$15.00																										

- You can manually input rates up to 4 digits long (0.01% to 99.99%).

### Taxable status of the **%-** key

- Whenever you perform a discount operation on the last item registered, the tax calculation for discount amount is performed in accordance with the tax status programmed for that item.
- Whenever you perform a discount operation on a subtotal amount, the tax calculation for the subtotal amount is performed in accordance with the tax status programmed for the **%-** key (see page 67).

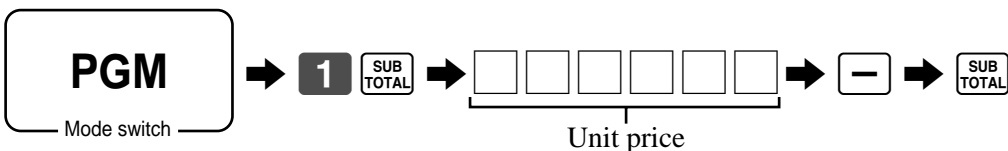
## Preparing and using reductions

This section describes how to prepare and register reductions.

### Programming for reductions

You can use the **-** key to reduce single item or subtotal amounts.


### To program preset reduction amount









# Basic Operations and Setups

## Registering reductions









The following examples show how you can use the  key in various types of registration.

### Reduction for items

OPERATION			RECEIPT
Item 1	Dept. 1	\$5.00	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>5 00</b> </p> <p><b>2 5</b> </p> <p>Reduces the last amount registered by the value input.</p> <p><b>4 5</b> </p> <p></p> <p></p> <p><b>1 1 00</b> </p> </div> <div style="border: 1px solid black; padding: 5px; font-family: monospace; font-size: 0.8em;">             REG 03-04-2000 11:05              C01 MC#01 000014               1 DEPT01 T1 -5.00              - T1 -0.25              1 PLU0045 T1 -6.00              - T1 -0.50              TA1 -10.25              TX1 -0.41              TL <b>-10.66</b>              CASH -11.00              CG -0.34           </div> </div>
	Quantity	1	
	Taxable	(1) <sub>preset</sub>	
<b>Reduction Amount</b>	<b>\$0.25</b>		
Item 2	PLU 45	(\$6.00) <sub>preset</sub>	
	Quantity	1	
	Taxable	(1) <sub>preset</sub>	
<b>Reduction Amount</b>	<b>(\$0.50)<sub>preset</sub></b>		
Payment	Cash	\$11.00	

- You can manually input reduction values up to 7 digits long.
- If you want to subtract the reduction amount from the department or PLU totalizer, program “Net totaling for departments and PLUs” (refer to page 58).

### Reduction for subtotal

OPERATION			RECEIPT
Item 1	Dept. 1	\$3.00	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>3 00</b> </p> <p><b>4 00</b> </p> <p></p> <p><b>7 5</b> </p> <p>Reduces the subtotal by the value input here.</p> <p></p> <p><b>7 00</b> </p> </div> <div style="border: 1px solid black; padding: 5px; font-family: monospace; font-size: 0.8em;">             REG 03-04-2000 11:10              C01 MC#01 000015               1 DEPT01 T1 -3.00              1 DEPT02 T2 -4.00              - -0.75              TA1 -3.00              TX1 -0.12              TA2 -4.00              TX2 -0.20              TL <b>-6.57</b>              CASH -7.00              CG -0.43           </div> </div>
	Quantity	1	
	Taxable	(1) <sub>preset</sub>	
Item 2	Dept. 2	\$4.00	
	Quantity	1	
	Taxable	(2) <sub>preset</sub>	
<b>Subtotal Reduction Amount</b>	<b>\$0.75</b>		
<b>Taxable</b>	<b>(No)<sub>preset</sub></b>		
Payment	Cash	\$7.00	

# Registering credit and check payments

The following examples show how to register credits and payments by check.

**REG**

Mode switch

## Check

### OPERATION

### RECEIPT

Item	Dept. 1	\$11.00
	Quantity	1
Payment	Check	\$20.00

1 1 00 1  
SUB TOTAL  
2 0 00 CHK/TEND

```
REG 03-04-2000 11:15
C01 MC#01 000016
1 DEPT01 -11.00
TL -11.00
CHECK -20.00
CG -9.00
```

## Credit

### OPERATION

### RECEIPT

Item	Dept. 4	\$15.00
	Quantity	1
Reference	Number	1234
Payment	Credit	\$15.00

1 5 00 4  
SUB TOTAL  
1 2 3 4 #/NS  
CR1

```
REG 03-04-2000 11:20
C01 MC#01 000017
1 DEPT04 -15.00
#/NS 1234
TL -15.00
CREDIT1 -15.00
```

Reference No.

## Mixed tender (cash, credit and check)

### OPERATION

### RECEIPT

Item	Dept. 4	\$55.00
	Quantity	1
Payment	Check	\$30.00
	Cash	\$5.00
	Credit	\$20.00

5 5 00 4  
SUB TOTAL  
3 0 00 CHK/TEND  
5 00 CA/AMT TEND  
CR1

```
REG 03-04-2000 11:25
C01 MC#01 000018
1 DEPT04 -55.00
TL -55.00
CHECK -30.00
CASH -5.00
CREDIT1 -20.00
```

## Preparing and registering the Euro

### Basic programming for the Euro and its exchange rate

Before registering the Euro, you must define the main currency, and its exchange rate.

If you need to select cash drawer or some rounding specification, please refer to the page 62 for further program (command code "2922" in the general programming).

Description	Choice	Program code
Define the euro as the main currency.	Yes = 0 No = 1	<input type="checkbox"/> D <sub>10</sub>
Select rounding option: Round off = 0, Cut off = 1, Round up = 2	Significant number (0 ~ 2)	<input type="checkbox"/> D <sub>9</sub>
Exchange rate (within 6-digits)	Significant numbers	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> D <sub>8</sub> D <sub>7</sub> D <sub>6</sub> D <sub>5</sub> D <sub>4</sub> D <sub>3</sub>
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: (D <sub>8</sub> ~ D <sub>2</sub> ) 1Euro = 1.977DM; Set "001977" 1Euro = 1957.77319 Lit; Set "1957772"	Significant number (0 ~ 6)	<input type="checkbox"/> D <sub>2</sub>
Always "0"		<input type="text"/> D <sub>1</sub>



### Registering the Euro



The following example shows the basic operation using the currency exchange function.









#### (1) Case A

Main currency	Local
Payment	Euro
Change	Local
Rate	1 Euro = 0.5 FFr









#### (2) Case B

Main currency	Euro
Payment	Local
Change	Euro
Rate	1 Euro = 0.5 FFr

### Case A

OPERATION	DISPLAY
<p><b>6 0 0</b> <span style="border: 1px solid black; padding: 2px;">1</span></p> <p> ← Press the  key, which converts the subtotal amount into the sub currency by applying the preset exchange rate.</p> <p> After you press the  key, the result is shown on the display.</p>	<p style="text-align: center;">0.00E</p> <p style="text-align: center;">12.00E</p>
<p><b>1 5 00</b></p> <p> ← Press the  key if you enter the payment in the sub currency.</p>	<p style="text-align: center;">0.00E</p> <p style="text-align: center;">15.00E</p>
<p> ← Press the  key to finalize the transaction. The change amount is shown in the programmed currency.</p>	<p style="text-align: center;">150</p>

### Case B

OPERATION	DISPLAY
<p><b>1 2 00</b> <span style="border: 1px solid black; padding: 2px;">1</span></p> <p> ← Press the  key, which converts the subtotal amount into the sub currency by applying the preset exchange rate.</p> <p> After you press the  key, the result is shown on the display.</p>	<p style="text-align: center;">0.00L</p> <p style="text-align: center;">6.00L</p>
<p><b>6 00</b></p> <p> ← Press the  key if you enter the payment in the sub currency.</p>	<p style="text-align: center;">0.00L</p> <p style="text-align: center;">6.00L</p>
<p> ← Press the  key to finalize the transaction. The change amount is shown in the programmed currency.</p>	<p style="text-align: center;">0.00</p>

### Printouts

CASE A	CASE B
<pre> REG 03-04-2000 11:30 C01 MC#01 000019  1 DEPT01      -6.00   TL          -6.00               €12.00  EURO money CASH          €15.00 CASH          -7.50 CG            -1.50           </pre>	<pre> REG 03-04-2000 11:35 C01 MC#01 000020  1 DEPT01      €12.00   TL          €12.00               -6.00  LOCAL money CASH          -6.00 CASH          €12.00 CG            €0.00           </pre>

# Basic Operations and Setups

## Validation printing



You can perform total amount validation following finalization using **CA/AMT/TEND**, **CH**, **CHK/TEND**, **CR1**, **CR2** keys and **RC**, **PD** keys. Also you can perform single item validation.

### Total amount validation

Item	Dept. 1	\$14.00
	Quantity	1
Payment	Check	\$20.00
<b>Validation</b>		

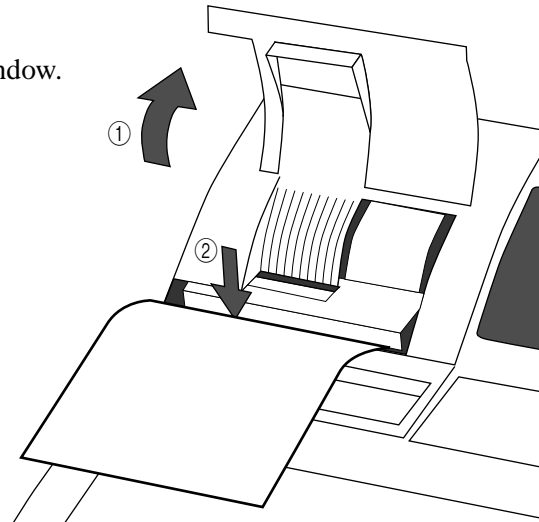
#### OPERATION



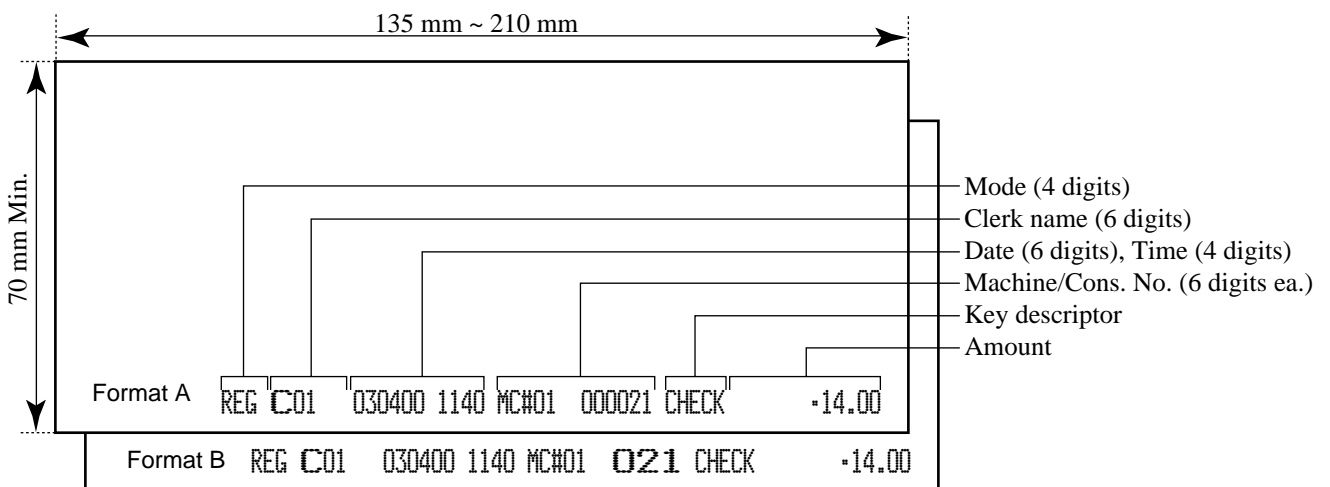
#### RECEIPT

```
REG 03-04-2000 11:40
C01 MC#01 000021
1 DEPT01      +14.00
TL           -14.00
CHECK        +20.00
CG           +6.00
```

- ① Open the journal window.
- ② Insert paper.
- ③ Press **VALID**.



### Validation sample



# Registering returned goods in the REG mode



The following example shows how to use the **RF** key in the REG mode to register goods returned by customers.

Item 1	Dept. 1	\$2.35
	Quantity	1
Item 2	Dept. 2	\$2.00
	Quantity	1
Item 3	PLU 1 (\$1.20) <sub>preset</sub>	
	Quantity	1
Returned Item 1	Dept. 1	\$2.35
	Quantity	1
Returned Item 3	PLU 1 (\$1.20) <sub>preset</sub>	
	Quantity	1
Payment	Cash	\$2.00

## OPERATION

**2** **3** **5** **1**  
**2** **00** **2**  
**1** **PLU**  
**RF**  
**2** **3** **5** **1**  
 Press **RF** before the item you want to return.  
**RF**  
**1** **PLU**  
**SUB TOTAL**  
**CA/AMT /TEND**

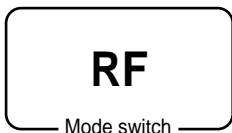
## RECEIPT

```

REG 03-04-2000 11:45
C01 MC#01 000022

1 DEPT01      -2.35
1 DEPT02      -2.00
1 PLU0001     -1.20
RF           .....
1 DEPT01      -2.35
RF           .....
1 PLU0001     -1.20
TL           - 2.00
CASH          -2.00
    
```

# Registering returned goods in the RF mode



The following examples show how to use the RF mode to register goods returned by customers.

## Normal refund transaction

Returned Item 1	Dept. 1	\$1.50
	Quantity	2
Returned Item 2	PLU 2 (\$1.20) <sub>preset</sub>	
	Quantity	6
Payment	Cash	\$10.20

## OPERATION

**1** **5** **0** **1**  
**1**  
**6** **% DATE TIME**  
**2** **PLU**  
**CA/AMT /TEND**

## RECEIPT

RF mode symbol

```

RF 03-04-2000 11:50
C01 MC#01 000023

1 DEPT01      -1.50
1 DEPT01      -1.50
6 PLU0002     -7.20
TL           -10.20
CASH          -10.20
    
```

# Basic Operations and Setups

## Reduction of amounts paid on refund

OPERATION			RECEIPT			
Returned Item 1	Dept. 3	\$4.00	4	00	3	<pre>RF 03-04-2000 11:55 C01 MC#01 000024  1 DEPT03 T1 -4.00 - T1 -0.15 1 PLU0002 T2 -1.20 5% %- T2 -0.06 TA1 -3.95 TX1 -0.15 TA2 -1.14 TX2 -0.06 TL -5.20 CASH -5.20</pre>
	Quantity	1	1	5	-	
Reduction	Amount	\$0.15	2	PLU		
Returned Item 2	PLU 2	(\$1.20) <sub>preset</sub>	%-			
	Quantity	1	SUB TOTAL			
Discount	Rate	(5%) <sub>preset</sub>	CA/AMT TEND			
Payment	Cash	\$5.20				

### Important!

- To avoid miss registrations in the RF mode, return the mode switch to the former position immediately.

## Registering money received on account



The following example shows how to register money received on account. This registration must be performed out of a sale.

OPERATION		RECEIPT				
Received amount	\$700.00	7	00	00	RC	<pre>REG 03-04-2000 12:00 C01 MC#01 000025  RC -700.00</pre>
Amount can be up to 8 digits.						

## Registering money paid out



The following example shows how to register money paid out from the register. This registration must be performed out of a sale.

OPERATION		RECEIPT				
Paid out amount	\$1.50	1	5	0	PD	<pre>REG 03-04-2000 12:05 C01 MC#01 000026  PD -1.50</pre>
Amount can be up to 8 digits.						



## Registering loan amounts

Use this procedure to register loan or bank received from the office.

**REG**

Mode switch

### OPERATION

### RECEIPT

Item	Note	\$1.00
	Quantity	10
	Note	\$5.00
	Quantity	5
Media	Cash	\$35.00

1 0

1 00

5

5 00

```

REG 03-04-2000 12:10
C01 MC#01 000027

LOAN +10.00
LOAN +25.00
CASH +35.00
    
```

## Registering pick up amounts

Use this procedure to register pick up money from cash drawer.

**REG**

Mode switch

### OPERATION

### RECEIPT

Item	Coin	\$0.50
	Quantity	10
	Coin	\$0.10
	Quantity	5
Media	Cash	\$5.50

1 0

5 0

5

1 0

```

REG 03-04-2000 12:15
C01 MC#01 000028

P.UP +5.00
P.UP +0.50
CASH +5.50
    
```

## Changing media in drawer

Use this procedure to change media in drawer.

**REG**

Mode switch

### OPERATION

### RECEIPT

Media	Check	-10.00
	Cash	\$8.00
	Charge	\$2.00

1 0 00

Enter the amount to be changed.

8 00

2 00

```

REG 03-04-2000 12:20
C01 MC#01 000029

MEDIA CHG .....
CHECK -10.00
CASH +8.00
CH +2.00
    
```

## Making corrections in a registration

**REG**

Mode switch

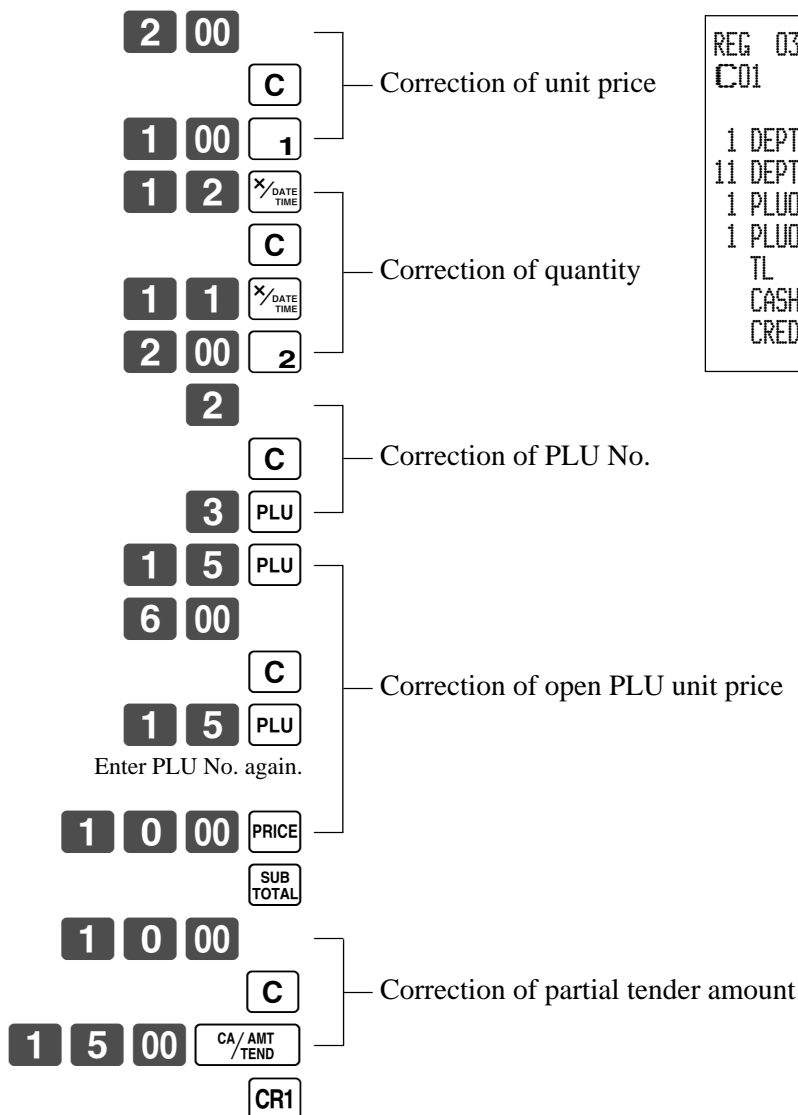
There are three techniques you can use to make corrections in a registration.

- To correct an item that you input but not yet registered.
- To correct the last item you input and registered.
- To cancel all items in a transaction.

### To correct an item you input but not yet registered

OPERATION

RECEIPT

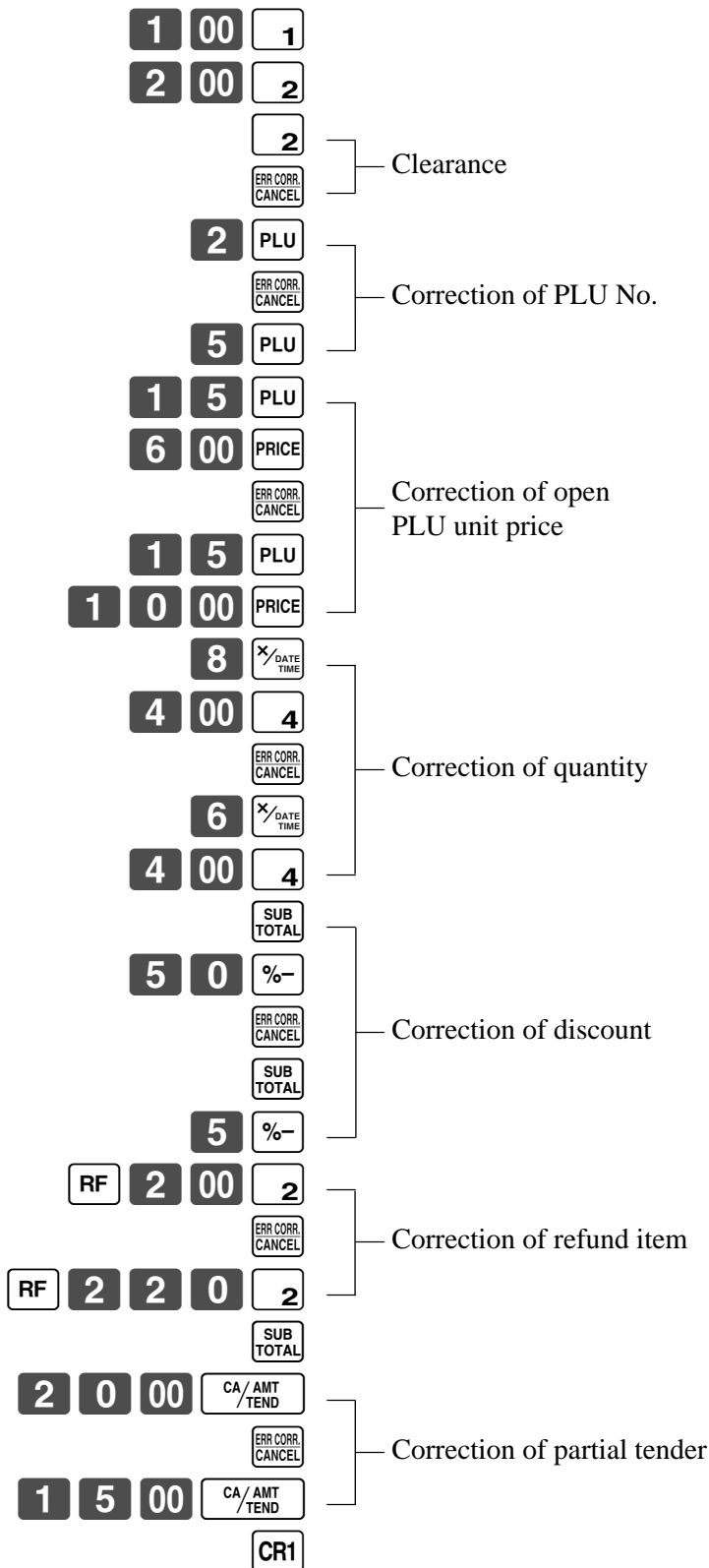


REG	03-04-2000	12:25
C01	MC#01	000030
1	DEPT01	-1.00
11	DEPT02	-22.00
1	PLU0003	-1.30
1	PLU0015	-10.00
	TL	- 34.30
	CASH	-15.00
	CREDIT1	-19.30

## To correct an item you input and registered

### OPERATION

### RECEIPT



REG	03-04-2000	12:30
C01	MC#01	000031
1	DEPT01	+1.00
1	DEPT02	+2.00
1	DEPT02	+2.00
	CORR	-2.00
1	PLU0002	+1.20
	CORR	-1.20
1	PLU0005	+1.50
1	PLU0015	+6.00
	CORR	-6.00
1	PLU0015	+10.00
8	DEPT04	+32.00
	CORR	-32.00
6	DEPT04	+24.00
	ST	+38.50
	50%	
	%-	-19.25
	CORR	+19.25
	ST	+38.50
	5%	
	%-	-1.93
	RF	.....
1	DEPT02	-2.00
	CORR	+2.00
	RF	.....
1	DEPT02	-2.20
	TL	<b>-34.37</b>
	CASH	+20.00
	CORR	-20.00
	CASH	+15.00
	CREDIT1	+19.37

# Basic Operations and Setups

## To cancel all items in a transaction

OPERATION	RECEIPT
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">00</div> <div style="border: 1px solid black; padding: 2px;">1</div> </div> <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">00</div> <div style="border: 1px solid black; padding: 2px;">2</div> </div> <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">00</div> <div style="border: 1px solid black; padding: 2px;">3</div> </div> <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">00</div> <div style="border: 1px solid black; padding: 2px;">4</div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">SUB TOTAL</div> </div>	<pre style="border: 1px solid black; padding: 5px;"> REG 03-04-2000 12:35 C01    MC#01    000032  1 DEPT01      -1.00 1 DEPT02      -2.00 1 DEPT03      -3.00 1 DEPT04      -4.00 CANCEL        .....</pre>
<p>Pressing  key is necessary to cancel the transaction.</p> <div style="border: 1px solid black; padding: 2px; margin-top: 5px; display: inline-block;">ERR CORR. CANCEL</div>	

## No sale registration



You can use the following procedure to open the drawer without registering a sale. This operation must be performed out of a sale.

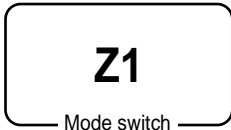
OPERATION	RECEIPT
<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: auto;"># / NS</div>	<pre style="border: 1px solid black; padding: 5px;"> REG 03-04-2000 12:40 C01    MC#01    000033  # / NS        .....</pre>

# Printing the daily sales reset report

This report shows daily sales totals.

## OPERATION

## REPORT



Mode switch



Z	03-04-2000	12:45	Date/time
C01	MC#01	000035	Clerk name/mc No./consecutive No.
-----			
Z	BATCH01		Report title
-----			
Z	FIX	0001	Fixed total report title/reset counter
		0001011	Report code
-----			
GROSS		981.25	Gross total *2
		-6,574.40	
NET	No	111	Net total *2
		-7,057.14	
CAID		-1,919.04	Cash in drawer *2
CHID		-139.04	Charge in drawer *2
CKID		-859.85	Check in drawer *2
CRID(1)		-709.85	Credit in drawer *2
-----			
RF	No	3	Refund mode *2
		-10.22	
CUST	CT	111	Number of customer *2
-----			
TA1		-2,369.69	Taxable 1 amount *2
TX1		-128.86	Tax 1 amount *2
TA2		-2,172.96	Taxable 2 amount *2
TX2		-217.33	Tax 2 amount *2
-----			
GT1		-00000000125478.96	Grand total 1 *2
GT2		-00000000346284.23	Grand total 2 *2
GT3		-00000000123212.75	Grand total 3 *2
-----			
Z	TRANS	0001	Function key report title/reset counter
		0001012	Report code
CASH	No	362	Function key count/amount *1
		-1,638.04	
CHARGE	No	56	
		-1,174.85	
RC	No	4	
		-810.00	
PD	No	5	
		-520.00	

CORR	No	14	-5.00	
			-39.55	
VLD	No	19		
RCT	No	3		
NS	No	5		
-----				
Z	DEPT	0001		Department report title/reset counter
		0001015		Report code
-----				
DEPT01			203.25	Department count/amount *1
			-1,108.54	
DEPT02			183	
			-1,362.26	
-----				
DEPT15			-17.22	
-----				
TL			421.25	Department total count/total amount
			-2,872.28	
-----				
Z	CASHIER	0001		Clerk report title/reset counter
		0001017		Report code
-----				
C01			.....1	Clerk name/drawer No. *1
GROSS			421.25	Gross total *1
			-2,872.28	
NET	No	111		Net total *1
			-1,845.35	
CAID			-1,057.14	Cash in drawer *1
CHID			-139.04	
-----				
C02			.....1	Clerk name/drawer No.

\*1 Zero totalled departments/functions/clerks are not printed by programming.

\*2 These items can be skipped by programming.

# Advanced Operations and Setups

This chapter describes more sophisticated operations that you can use to suit the needs of your retail environment.

## Clerk interrupt function

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

- In PROCEDURE 1, each clerk possesses a unique clerk interrupt buffer, and so the clerk interrupt function gives each individual clerk the ability to perform an independent registration operation. 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 so a single clerk interrupt operation (clerk change during registration) can be performed any registration is in progress.

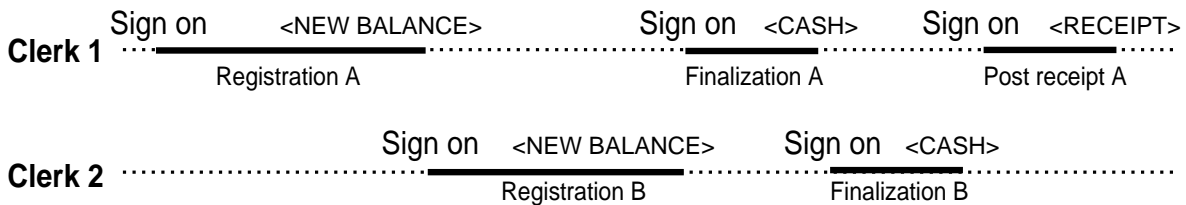
In this case, multiple clerks are linked to a single clerk interrupt buffer.

Note the following important points concerning the clerk interrupt function.

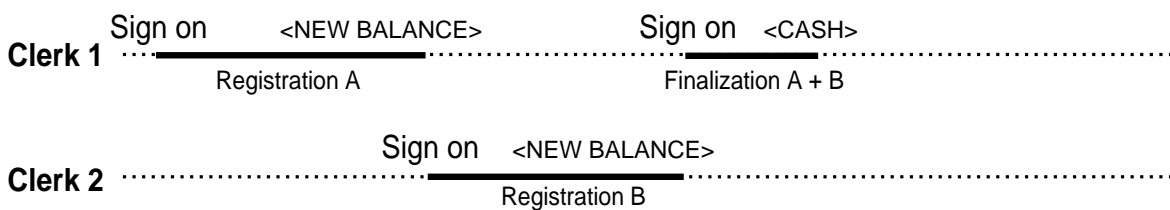
1. The register must be programmed to allow the clerk interrupt function.
2. To use the clerk interrupt function, a clerk interrupt buffer must be allocated with the memory allocation operation. Next the manager control operation (X1 mode) should be used to perform clerk assignment for the clerk interrupt function. The clerk interrupt operation cannot be performed by clerks who are not linked to a clerk interrupt buffer.

In the REG1, REG2, and RF modes, clerks can be changed while a transaction is in progress, making it possible for multiple clerks to simultaneously perform registrations in the same mode using a single register. For example, if clerk 1 is interrupted while registering a transaction, clerk 2 can use the same machine to register a different transaction. Then clerk 1 can continue the original registration from the point where it was interrupted.

### PROCEDURE 1



### PROCEDURE 2



### NOTES

- A guest receipt can be issued following clerk change, and receipts can be issued separately for each clerk.
- A cancel operation can be performed during registration by either of the clerks. When clerk 1 signs back on (after being interrupted by clerk 2), the cancel operation cancels only the items registered after signing back on (only this receipt) or from the top of the transaction. This is selectable by the key program.

# Single item cash sales

A department key or PLU programmed with single item sale status finalizes the transaction as soon as it is registered.

The single item sales function cannot work properly if the keyboard does not include <CASH> (the cash key).

The single item sales function can only be used for cash sales.

## Example 1

### OPERATION

Item	Dept. 1	\$1.00
	Quantity	1
	Status	S.I.S
Payment	Cash	\$1.00

**1 00 1**

The transaction is immediately finalized.

### RECEIPT

REG	03-04-2000	13:00	Mode/date/time
C01	MC#01	000050	Clerk/consecutive No.
1	DEPT01	-1.00	Department No./unit price
	TL	-1.00	Total amount
	CASH	-1.00	

## Example 2

### OPERATION

Item	Dept. 1	(\$1.00)
	Quantity	3
	Status	S.I.S
Payment	Cash	\$3.00

**3**  DATE TIME  
**1**

The transaction is immediately finalized.

### RECEIPT

REG	03-04-2000	13:05
C01	MC#01	000051
3	DEPT01	-3.00
	TL	-3.00
	CASH	-3.00

## Example 3

### OPERATION

Item 1	Dept. 3	\$2.00
	Quantity	1
	Status	Normal
Item 2	Dept. 1	(\$1.00)
	Quantity	1
	Status	S.I.S
Payment	Cash	\$3.00

**2 00 3**  
**1**

The transaction is not finalized. Because another item is registered before the single item sales department.

**CA/AMT TEND**

### RECEIPT

REG	03-04-2000	13:10
C01	MC#01	000052
1	DEPT03	-2.00
1	DEPT01	-1.00
	TL	-3.00
	CASH	-3.00

# Advanced Operations and Setups

## Addition

### Addition (plus)

#### Example

Item 1	Dept. 1	\$1.00
	Quantity	1
	<b>Addition</b>	<b>\$0.10</b>
Item 2	Dept. 1	\$2.00
	Quantity	3
	<b>Addition</b>	<b>3 × (\$0.20)</b>
Payment	Cash	\$7.70

#### OPERATION

**1** **00** **1**  
**1** **0** **+**  
**3** **%** **DATE**  
**2** **00** **1**  
**3** **%** **DATE**  
**+**  
**CA/AMT**  
**TEND**

#### RECEIPT

```

REG 03-04-2000 13:15
C01 MC#01 000053

1 DEPT01      -1.00
+              -0.10
3 DEPT01      -6.00
+              -0.60
TL             -7.70
CASH          -7.70
    
```

### Premium (%+)

#### Example

Item 1	Dept. 1	\$1.00
	Quantity	1
	<b>Premium</b>	<b>10%</b>
Item 2	Dept. 1	\$2.00
	Quantity	3
<b>Subtotal</b>	<b>Premium</b>	<b>(15%)</b>
Payment	Cash	\$8.17

#### OPERATION

**1** **00** **1**  
**1** **0** **%+**  
**3** **%** **DATE**  
**2** **00** **1**  
**SUB**  
**TOTAL**  
**%+**  
**CA/AMT**  
**TEND**

#### RECEIPT

```

REG 03-04-2000 13:20
C01 MC#01 000054

1 DEPT01      -1.00
10%           -0.10
%+            -0.10
3 DEPT01      -6.00
ST            -7.10
15%           -1.07
%+            -1.07
TL             -8.17
CASH          -8.17
    
```



# Coupon transactions

Note that errors result when the result of a calculation is negative if the cash register is programmed to prohibit credit balances.

## Coupon registration using <COUPON> (coupon key)

Example

			OPERATION	RECEIPT
Item 1	Dept. 1	\$3.00	<b>2</b> <small>X/DATE TIME</small> <b>3</b> <b>00</b> <b>1</b> <b>2</b> <small>X/DATE TIME</small> <b>5</b> <b>0</b> <b>CPN</b> <b>4</b> <b>00</b> <b>3</b> <b>CPN</b> <b>CA/AMT TEND</b>	<pre> REG 03-04-2000 13:25 C01  MC#01  000055  2 DEPT01      -6.00 CPN           -1.00 1 DEPT03      -4.00 CPN           -1.00 TL            -8.00 CASH          -8.00                     </pre>
	Quantity	2		
	<b>Coupon</b>	<b>\$0.50 × 2</b>		
Item 2	Dept. 3	\$4.00		
	Quantity	1		
	<b>Coupon</b>	<b>(\$1.00)</b>		
Payment	Cash	\$8.00		

## Coupon registration using <COUPON2> (coupon 2 key)

Example

			OPERATION	RECEIPT
Item 1	Dept. 1	\$15.00	<b>1</b> <b>5</b> <b>00</b> <b>1</b> <b>CPN2</b> <b>1</b> <b>5</b> <b>0</b> <b>1</b> <b>1</b> <b>0</b> <b>PLU</b> <b>CPN2</b> <b>5</b> <b>0</b> <b>PLU</b> <b>CA/AMT TEND</b>	<pre> REG 03-04-2000 13:30 C01  MC#01  000056  1 DEPT01      -15.00 CPN2          ..... 1 DEPT01      -1.50 1 PLU0010     -5.00 CPN2          ..... 1 PLU0050     -0.50 TL            -18.00 CASH          -18.00                     </pre>
	Quantity	1		
	<b>Coupon 2 Dept. 1</b>	<b>\$1.50</b>		
Item 2	PLU 10	\$5.00		
	Quantity	1		
	<b>Coupon 2 PLU 50</b>	<b>(\$0.50)</b>		
Payment	Cash	\$18.00		

## Arrangement key registrations

Key operations can be assigned to an <ARRANGE> (arrangement key). Then, simply pressing <ARRANGE> performs all of the key functions assigned to it.

Key operations can also be assigned to an address code. Then, when you input the address code using <ARRANGE>, all of the key functions assigned to the address code are performed.

### Example 1

OPERATION			RECEIPT																
<table border="1"> <tr><th colspan="3">Arrangement 1</th></tr> <tr> <td rowspan="2">Item 1</td> <td>PLU 1</td> <td>(\$8.00)</td> </tr> <tr> <td>Quantity</td> <td>1</td> </tr> <tr> <td rowspan="2">Item 2</td> <td>PLU 2</td> <td>(\$5.00)</td> </tr> <tr> <td>Quantity</td> <td>1</td> </tr> <tr> <td>Payment</td> <td>Cash</td> <td>\$13.00</td> </tr> </table>			Arrangement 1			Item 1	PLU 1	(\$8.00)	Quantity	1	Item 2	PLU 2	(\$5.00)	Quantity	1	Payment	Cash	\$13.00	<div style="border: 1px solid black; padding: 5px; display: inline-block;">ARR</div> <pre> REG 03-04-2000 13:35 C01  MC#01  000057  1 PLU0001      -8.00 1 PLU0002      -5.00 TL              -13.00 CASH           -13.00                     </pre>
Arrangement 1																			
Item 1	PLU 1	(\$8.00)																	
	Quantity	1																	
Item 2	PLU 2	(\$5.00)																	
	Quantity	1																	
Payment	Cash	\$13.00																	

### Example 2

OPERATION			RECEIPT																
<table border="1"> <tr><th colspan="3">Arrangement 5</th></tr> <tr> <td rowspan="2">Item 1</td> <td>Dept. 1</td> <td>\$1.00</td> </tr> <tr> <td>Quantity</td> <td>1</td> </tr> <tr> <td rowspan="2">Item 2</td> <td>Dept. 2</td> <td>\$2.00</td> </tr> <tr> <td>Quantity</td> <td>1</td> </tr> <tr> <td>Payment</td> <td>Cash</td> <td>\$3.00</td> </tr> </table>			Arrangement 5			Item 1	Dept. 1	\$1.00	Quantity	1	Item 2	Dept. 2	\$2.00	Quantity	1	Payment	Cash	\$3.00	<div style="border: 1px solid black; padding: 5px; display: inline-block;">5 ARR</div> <pre> REG 03-04-2000 13:40 C01  MC#01  000058  1 DEPT01      -1.00 1 DEPT02      -2.00 TL              -3.00 CASH           -3.00                     </pre>
Arrangement 5																			
Item 1	Dept. 1	\$1.00																	
	Quantity	1																	
Item 2	Dept. 2	\$2.00																	
	Quantity	1																	
Payment	Cash	\$3.00																	

## Arrangement programming

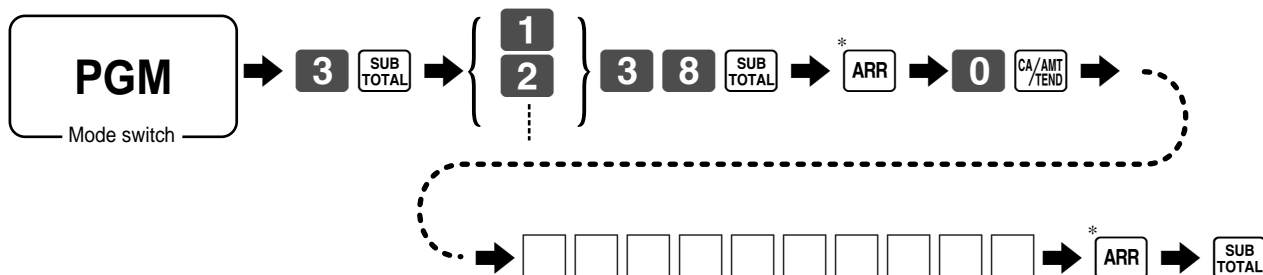
### Arrangement key allocation

Please refer to page 80.

### Attribution of <ARRANGEMENT> programming

Please refer to page 69.

### The operation in <ARRANGEMENT> programming



\* The same **ARR** should be pressed.

# Currency exchange function

When <CE> (currency exchange key) is pressed, a current subtotal including tax is converted directly into foreign currency and the result is displayed, and the subsequent finalization is handled using the foreign currency. The currency exchange function is released by finalizing a transaction, partial tender operation, receipt issuance, or by pressing <SUBTOTAL>.

Before using the currency exchange function, it is necessary to program the conversion rate.

## Registering foreign currency

### Full amount tender in foreign currency

\* Pre-programmed exchange rate: ¥ 100 = \$0.9524

#### Important!

Tenders in a foreign currency can be registered using **CA/AMT/TEND** and **CHK/TEND** only. Other finalize keys cannot be used.

#### OPERATION

#### DISPLAY

#### RECEIPT

**1 0 00** **1**

← Enter the unit price and press the applicable department key.

**01 10.00**

(Displays in \$)

**2 0 00** **2**

← Enter the next unit price and press the applicable department key.

**02 20.00**

(Displays in \$)

**CE** **SUB TOTAL**

← Press **CE** and **SUB TOTAL** without entering a numeric value. This operation converts the subtotal (including tax) dollar value into yen by applying a pre-programmed exchange rate. The result is shown on the display and printed on the receipt/journal by programming.

**3.150**

(Displays in ¥: 3,150)

**5 0 00** **CE**  
(5,000)

← Enter the amount tendered in yen and press **CE**. This operation converts the entered yen amount into dollars by applying a pre-programmed exchange rate. The result is shown on the display.

**5.000**

**CA/AMT/TEND**

← Press to finalize the transaction. Note that you do not need to reenter the dollar amount. The register automatically calculates the change amount due in dollars and shows it on the display, receipts and journal.

**17.62**

(Displays in \$)

```

REG 03-04-2000 13:45
C01 MC#01 000059

1 DEPT01      -10.00
2 DEPT02      -20.00
TL            -30.00
CE
CASH          ¥5,000
CASH          -47.62
CG            -17.62
    
```

# Advanced Operations and Setups

## Partial tender in a foreign currency

\* Pre-programmed exchange rate: ¥ 100 = \$0.9524

### Important!

Partial tender in a foreign currency can be registered using **CA/AMT/TEND** and **CHK/TEND** only. Other finalization keys cannot be used, but the remaining tender can be finalized using any finalize key.

OPERATION	DISPLAY	RECEIPT
<b>1 0 00</b> <b>1</b> ← Enter the unit price and press the applicable department key.	<b>01 10.00</b> (Displays in \$)	<pre> REG 03-04-2000 13:50 C01 MC#01 000060  1 DEPT01 -10.00 1 DEPT02 -20.00 TL -30.00 CE CASH ¥2,000 CASH -19.05 CHECK -10.95           </pre>
<b>2 0 00</b> <b>2</b> ← Enter the next unit price and press the applicable department key.	<b>02 20.00</b> (Displays in \$)	
<b>CE</b> <b>SUB TOTAL</b> ← Press <b>CE</b> and <b>SUB TOTAL</b> without entering a numeric value. This operation converts the subtotal (including tax) dollar value into yen by applying a pre-programmed exchange rate. The result is shown on the display and printed on the receipt/journal by programming.	<b>3.150</b> (Displays in ¥: 3,150)	
<b>2 0 00</b> <b>CE</b> ← Enter the partial amount tendered in yen and press <b>CE</b> . (2,000) <p>This operation converts the entered yen amount into dollars by applying a pre-programmed exchange rate. The result is shown on the display.</p>	<b>2.000</b>	
<b>CA/AMT/TEND</b> ← Press <b>CA/AMT/TEND</b> to specify cash tender for the yen partial tender. Note that you do not need to reenter the dollar amount. The register automatically deducts the dollar equivalent of the yen amount tendered from the total amount due and shows the amount on the display.	<b>10.95</b> (Displays in \$)	
<b>CHK/TEND</b> ← Press to finalize the transaction.	<b>10.95</b> (Displays in \$)	

## Currency exchange programming

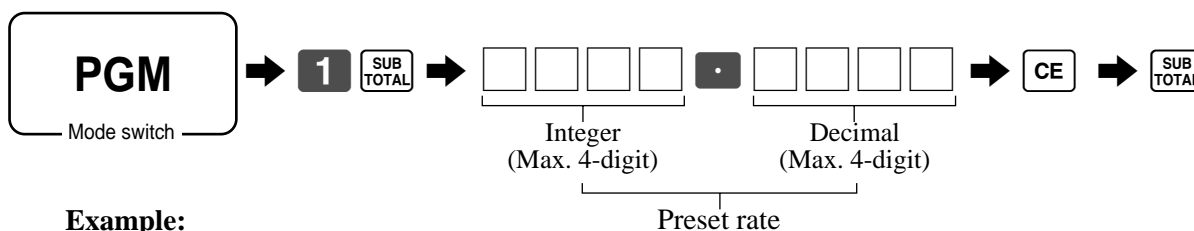
### Currency exchange key allocation

Please refer to page 80.

### Attribution of <CURRENCY EXCHANGE> programming

Please refer to page 69.

### Exchange rate programming



#### Example:

\$1.00 = ¥110.50 ⇨ **1** · **1 0 5**  
 ¥100 = \$0.9050 ⇨ **0** · **9 0 5**

## Temporarily releasing compulsion

<OPEN 2> (open 2 key) can be programmed to release specific compulsion.

### Example 1

OPERATION			RECEIPT		
Item	Unit price	\$10.00	<b>1 0 00</b>	<b>1</b>	REG 03-04-2000 13:55 C01 MC#01 000061 1 DEPT01 -10.00 TL -10.00 CHECK -10.00 CG -0.00
	Dept.	1	<b>1 0 00</b>	<b>CHK/TEND</b>	
Payment	Check	\$10.00	<b>2 00</b>	<b>2</b>	
<b>Validation compulsory</b>			Validation compulsory (E041)		
			<b>OPEN 2</b>	Validation compulsory is temporarily released.	

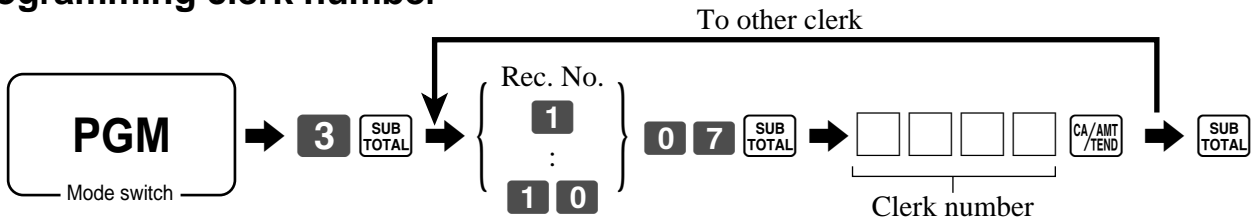
### Example 2

OPERATION			RECEIPT		
<b>Input customer No. compulsory</b>			<b>1 0 00</b>	<b>1</b>	REG 03-04-2000 14:00 C01 MC#01 000062 1 DEPT01 -10.00 TL -10.00 CHECK -10.00 CG -0.00
Item	Unit price	\$10.00	Input customer No. compulsory (E019)		
	Dept.	1	<b>OPEN 2</b>	Compulsory is temporarily released.	
Payment	Check	\$10.00	<b>1 0 00</b>	<b>1</b>	
			<b>1 0 00</b>	<b>CHK/TEND</b>	

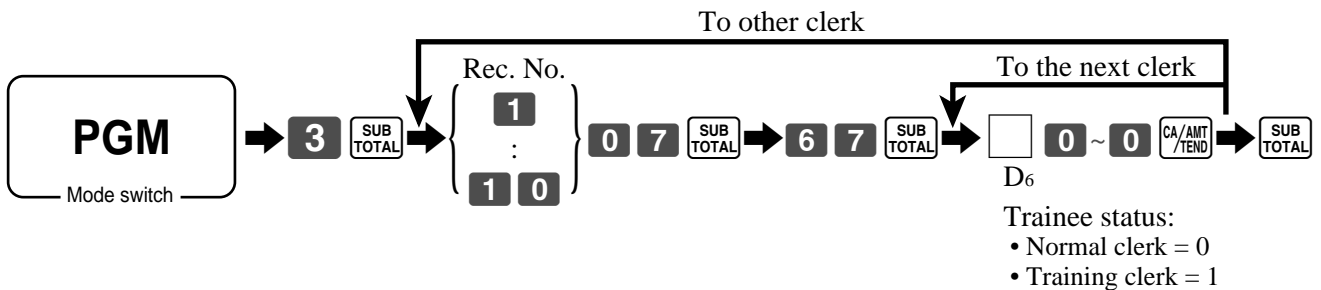
## Programming to clerk

You can program up to 4-digit assigning number (clerk number), trainee status of clerk (i.e. training cashier) and commission rate for each clerk.

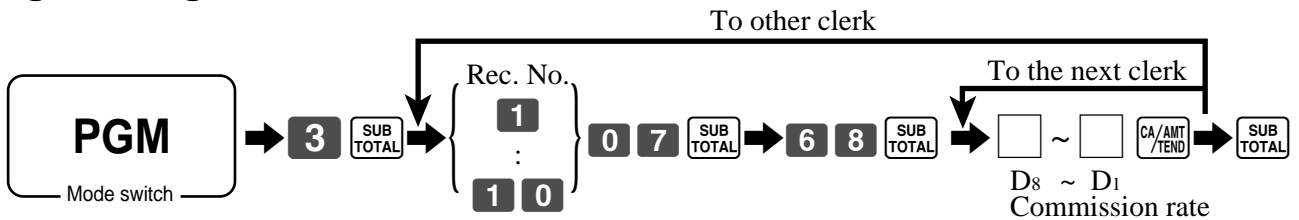
### Programming clerk number



### Programming trainee status



### Programming commission rate

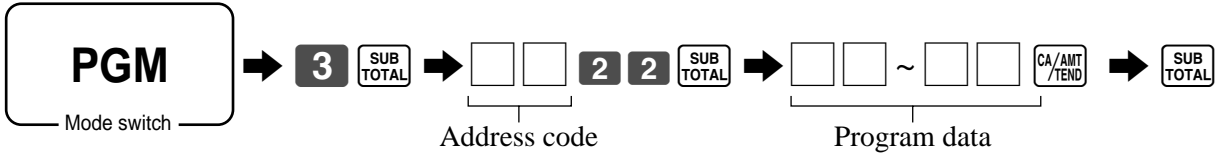


Record No.	Clerk number				Trainee status		Commission rate										
							Commission rate 1				Commission rate 2						
	D4	D3	D2	D1	D6	00000	Integer		Decimal		Integer		Decimal				
1						00000											
2						00000											
3						00000											
4						00000											
5						00000											
6						00000											
7						00000											
8						00000											
9						00000											
10						00000											

# Programming machine features

You can program several machine features by the general control file.

## Programming to general control file



### Address code 0122

Description	Choice	Program code
Date order Year/Month/Day = 0, 1 Day/Month/Year = 2, Month/Day/Year = 3	Significant number (0 ~ 3)	<input type="checkbox"/> D <sub>10</sub>
Monetary mode □ = 0, □□ = 1, □□□ = 2, □□□□ = 3	Significant number (0 ~ 3)	<input type="checkbox"/> D <sub>9</sub>
Password in Manager mode		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D <sub>8</sub> D <sub>7</sub> D <sub>6</sub> D <sub>5</sub>
Password in X2/Z2 mode		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D <sub>4</sub> D <sub>3</sub> D <sub>2</sub> D <sub>1</sub>

### Address code 0222

Description	Choice	Program code
Password in PGM1/PGM2 mode	Significant numbers	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D <sub>10</sub> D <sub>9</sub> D <sub>8</sub> D <sub>7</sub>
Always "0"		<input type="checkbox"/> <input type="checkbox"/> D <sub>6</sub> D <sub>5</sub>
Always "0"		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D <sub>4</sub> D <sub>3</sub> D <sub>2</sub> D <sub>1</sub>

### Address code 0322

Description	Choice	Program code
Reset consecutive number after daily fixed total reset report is issued.	Yes = 1 No = 0	<input type="checkbox"/> D <sub>8</sub>
Always "0"		<input type="checkbox"/> D <sub>7</sub>
Consecutive number start value		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D <sub>6</sub> D <sub>5</sub> D <sub>4</sub> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D <sub>3</sub> D <sub>2</sub> D <sub>1</sub>

# Advanced Operations and Setups

## Address code 0422

Description		Choice	Program code
Apply rounding for multiplication, discount and premium. No rounding = 0, IF1 = 1, IF2 = 2, Danish = 3 Norwegian = 4, Singaporean = 5		Significant number (0 ~ 5)	<input type="checkbox"/> D <sub>10</sub>
Tax system VAT system = 0, Singaporean tax system = 3		Significant number (0 ~ 3)	<input type="checkbox"/> D <sub>9</sub>
Receipt on/off Controlled by receipt on/off switch/key = 0 Always on (issue) = 1, Always off (not issue) = 2		Significant number (0 ~ 2)	<input type="checkbox"/> D <sub>8</sub>
Allow amount tender in RF/REG- mode operation.	a	Yes = 0 No = 2	<input type="checkbox"/> (a+b) D <sub>7</sub>
Cash drawer opening: ①Immediately when the transaction is finalized. ②After validation compulsory is released.	b	① = 0 ② = 4	
Always "0"			<input type="checkbox"/> D <sub>6</sub>
Rounding of results produced by departments and PLUs programmed with package prices and package quantities		Round off = 0 Cut off = 1 Round up = 2	<input type="checkbox"/> D <sub>5</sub>
High amount limit specification for cash in drawer amount. (Sentinel function)		Maximum value (0 ~ 9) Number or zeros (0 ~ 9)	<input type="checkbox"/> <input type="checkbox"/> D <sub>4</sub> D <sub>3</sub>
Printing of clerk/cashier name on receipt following sign back on following clerk/cashier interrupt operation.		No = 0 Yes = 4	<input type="checkbox"/> D <sub>2</sub>
Enable clerk/cashier interrupt		No = 0 Yes = 1	<input type="checkbox"/> D <sub>1</sub>

## Rounding

IF 1 rounding		Danish rounding	
Last 1 digit of subtotal	Result	Last 2 digits of subtotal/change	Result
0 ~ 2	0	00 ~ 12	00
3 ~ 7	5	13 ~ 37	25
8 ~ 9	10	38 ~ 62	50
<b>IF 2 rounding</b>		63 ~ 87	75
Last 1 digit of subtotal	Result	88 ~ 99	100
0 ~ 4	0	<b>Norwegian rounding</b>	
5 ~ 9	10	Last 1 digit of subtotal	Result
<b>Singaporean rounding</b>		00 ~ 24	00
Last 1 digit of tax	Result	25 ~ 74	50
0 ~ 2	0	75 ~ 99	100
3 ~ 7	5		
8 ~ 9	10		



## Address code 0522

Description		Choice	Program code
Print total line during finalization.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b+c) D <sub>10</sub>
Time system: ① 24 hour system, ② 12 hour system	b	① = 0 ② = 2	
Feed one line after issuing receipt.	c	No = 0 Yes = 4	
Print consecutive number by double sized letter (up to 3 digits).	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b) D <sub>9</sub>
Buffered receipt print	b	No = 0 Yes = 2	
Skip item lines on journal. (journal skip)	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b) D <sub>8</sub>
Break-down set menu printing on receipt, post receipt, guest receipt.	b	No = 0 Yes = 4	
Always "0"			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D <sub>7</sub> D <sub>6</sub> D <sub>5</sub>
Print number of item sold.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b) D <sub>4</sub>
Print tax symbols.	b	Yes = 0 No = 2	
Always "0"			<input type="checkbox"/> D <sub>3</sub>
Print multiplication or item consolidation in one line.			<input type="checkbox"/> D <sub>2</sub>
Print <input type="checkbox"/> operation.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>1</sub>
Print number of customers on header.	b	Yes = 0 No = 2	
Print PLU number on receipt.	c	No = 0 Yes = 4	

# Advanced Operations and Setups

## Address code 0622

Description		Choice	Program code
Follow the taxable status and commission status of +/- to the previous item.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b+c) D <sub>10</sub>
Force to register rate tax before finalization.	b	No = 0 Yes = 2	
Force a money declaration before read/reset operation.	c	No = 0 Yes = 4	
Force to press <input type="button" value="SUB"/> before finalization	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>9</sub>
Allow credit balance while finalization.	b	Yes = 0 No = 2	
Allow multiple refund/register minus operation.	c	Yes = 0 No = 4	
Affect the result of +/-, %+/%- to the item. (Net totaling)	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b) D <sub>8</sub>
Include add-on tax in net total	b	Yes = 0 No = 2	
Include commission in net total.	a	Yes = 0 No = 2	<input type="checkbox"/> (a+b) D <sub>7</sub>
Treatment of department key numeric inputs: ① Treat as amount override ② Treat as quantity extensions	b	① = 0 ② = 4	
Clear the key buffer when a receipt is issued.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>6</sub>
Sounds key catch tone.	b	Yes = 0 No = 2	
Allow to issue post receipt, even if the original one is issued.	c	No = 0 Yes = 4	
Allow program 1 programming in the manager control mode (X1 mode).	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>5</sub>
Display "seconds" during time display.	b	No = 0 Yes = 2	
Connect slit drawer.	c	No = 0 Yes = 4	
RF mode status		RF = 0 REG- = 1	<input type="checkbox"/> D <sub>4</sub>
Allow one registration of +/-, %+/%- per one transaction.		No = 0 Yes = 4	<input type="checkbox"/> D <sub>3</sub>
Round on the least significant digit of %+/%- registration.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b) D <sub>2</sub>
Display separator.	b	Yes = 0 No = 2	
Allow numeric entry while compulsory drawer opening.	a	Yes = 0 No = 2	<input type="checkbox"/> (a+b) D <sub>1</sub>
PLU numbering: ① By memory No. (sequential), ② By random code	b	① = 0 ② = 4	

### Address code 1022

Description		Choice	Program code
Print taxable amount 1 on receipt/journal.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b+c) D <sub>10</sub>
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.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b+c) D <sub>9</sub>
Print taxable amount 5 on receipt/journal.	b	Yes = 0 No = 2	
Print taxable amount 6 on receipt/journal.	c	Yes = 0 No = 4	
Print taxable amount 7 on receipt/journal.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b+c) D <sub>8</sub>
Print taxable amount 8 on receipt/journal.	b	Yes = 0 No = 2	
Print taxable amount 9 on receipt/journal.	c	Yes = 0 No = 4	
Print taxable amount 10 on receipt/journal.		Yes = 0 No = 1	<input type="checkbox"/> D <sub>7</sub>
Always "0"			<input type="checkbox"/> <input type="checkbox"/> D <sub>6</sub> D <sub>5</sub>
Till timer (00 ~ 59 minutes)		Significant numbers	<input type="checkbox"/> <input type="checkbox"/> D <sub>4</sub> D <sub>3</sub>
Till timer (00 ~ 59 seconds)		Significant numbers	<input type="checkbox"/> <input type="checkbox"/> D <sub>2</sub> D <sub>1</sub>

### Address code 1422

Description		Choice	Program code
Monetary mode of foreign currency 1:		Significant number (0 ~ 9)	<input type="checkbox"/> D <sub>8</sub>
Decimal for foreign currency 1: ① Period = 0, ② Comma = 1	a	① = 0 ② = 1	<input type="checkbox"/> (a+b) D <sub>7</sub>
Separator for foreign currency 1: ① Comma = 0, ② Period = 1	b	① = 0 ② = 4	
Monetary mode of foreign currency 2:		Significant number (0 ~ 9)	<input type="checkbox"/> D <sub>6</sub>
Decimal for foreign currency 2: ① Period = 0, ② Comma = 1	a	① = 0 ② = 1	<input type="checkbox"/> (a+b) D <sub>5</sub>
Separator for foreign currency 2: ① Comma = 0, ② Period = 1	b	① = 0 ② = 4	
Monetary mode of foreign currency 3:		Significant number (0 ~ 9)	<input type="checkbox"/> D <sub>4</sub>
Decimal for foreign currency 3: ① Period = 0, ② Comma = 1	a	① = 0 ② = 1	<input type="checkbox"/> (a+b) D <sub>3</sub>
Separator for foreign currency 3: ① Comma = 0, ② Period = 1	b	① = 0 ② = 4	
Monetary mode of foreign currency 4:		Significant number (0 ~ 9)	<input type="checkbox"/> D <sub>2</sub>
Decimal for foreign currency 4: ① Period = 0, ② Comma = 1	a	① = 0 ② = 1	<input type="checkbox"/> (a+b) D <sub>1</sub>
Separator for foreign currency 4: ① Comma = 0, ② Period = 1	b	① = 0 ② = 4	

# Advanced Operations and Setups

## Address code 1722

Description		Choice	Program code
Money declaration compulsory (cash) in REG/RF mode	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>10</sub>
Money declaration compulsory (charge) in REG/RF mode	b	No = 0 Yes = 2	
Money declaration compulsory (check) in REG/RF mode	c	No = 0 Yes = 4	
Money declaration compulsory (credit) in REG/RF mode		No = 0 Yes = 1	<input type="checkbox"/> D <sub>9</sub>
Always "0"			<input type="checkbox"/> 0 D <sub>8</sub>
Include VAT amount in commission subtotal.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b) D <sub>7</sub>
Whenever pressing <PLUS> or <MINUS>, the amount registered is proportioned among all taxable amounts.	b	No = 0 Yes = 2	
Rounding of commission: Round off = 0, Cut off = 1, Round up = 2		Significant number (0 ~ 2)	<input type="checkbox"/> D <sub>6</sub>
Append two zeros in unit price programming.		No = 0 Yes = 1	<input type="checkbox"/> D <sub>5</sub>
Print date on receipt.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b+c) D <sub>4</sub>
Print date on journal.	b	Yes = 0 No = 2	
Print consecutive number on receipt/journal.	c	Yes = 0 No = 4	
Print time on receipt.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b+c) D <sub>3</sub>
Print time on journal.	b	Yes = 0 No = 2	
Merge the same department/PLU registration on buffered receipt and post receipt. (Item consolidation)	c	Yes = 0 No = 4	
Always "0"			<input type="checkbox"/> <input type="checkbox"/> D <sub>2</sub> D <sub>1</sub>

## Address code 2122

Description		Choice	Program code
Print logo message on receipt. (If select "No", logo stamp is used.)		No = 0 Yes = 1	<input type="checkbox"/> D <sub>10</sub>
Print commercial message on guest receipt.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>9</sub>
Print bottom message on guest receipt.	b	No = 0 Yes = 2	
Print intermediate message on guest receipt.	c	No = 0 Yes = 4	
Print bill top message.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>8</sub>
Print bill copy message.	b	No = 0 Yes = 2	
Print bill bottom message.	c	No = 0 Yes = 4	
Always "0"			<input type="checkbox"/> D <sub>7</sub>
Print commercial message on receipts in REG/RF mode.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>6</sub>
Print bottom message on receipts in REG/RF mode.	b	No = 0 Yes = 2	
Print commercial message on journal in REG/RF mode.	c	No = 0 Yes = 4	
Print bottom message on journal in REG/RF mode.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>5</sub>
Print commercial message on receipts in X/Z mode.	b	No = 0 Yes = 2	
Print bottom message on receipts in X/Z mode.	c	No = 0 Yes = 4	
Print commercial message on journal in X/Z mode.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>4</sub>
Print bottom message on journal in X/Z mode.	b	No = 0 Yes = 2	
Print commercial message on receipt in PGM mode.	c	No = 0 Yes = 4	
Print bottom message on receipt in PGM mode.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>3</sub>
Print commercial message on journal in PGM mode.	b	No = 0 Yes = 2	
Print bottom message on journal in PGM mode.	c	No = 0 Yes = 4	
Print commercial message on FC or AUTO-PGM receipts.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>2</sub>
Print bottom message on FC or AUTO-PGM receipts.	b	No = 0 Yes = 2	
Print commercial message on FC or AUTO-PGM journal.	c	No = 0 Yes = 4	
Print bottom message on FC or AUTO-PGM journal.		No = 0 Yes = 1	<input type="checkbox"/> D <sub>1</sub>

# Advanced Operations and Setups

## Address code 2922

Description	Choice	Program code
Monetary mode of sub currency: 0 = 0, 00 = 1, 000 = 2, 0000 = 3	Significant number (0 ~ 3)	<input type="checkbox"/> D <sub>10</sub>
Apply rounding for sub currency. No rounding = 0, IF1 = 1, IF2 = 2, Danish = 3 Norwegian = 4, Singaporean = 5	Significant number (0 ~ 5)	<input type="checkbox"/> D <sub>9</sub>
Cash drawer number of sub currency: 0 ~ 2 ("0" means main drawer.)	Significant number	<input type="checkbox"/> D <sub>8</sub>
Selection of the currency of subtotal printout: ① Main currency only, ② Main and sub currency	① = 0 ② = 2	<input type="checkbox"/> D <sub>7</sub>
Selection of the currency of change: ① Main currency, ② Sub currency	a ① = 0 ② = 1	<input type="checkbox"/> (a+b+c) D <sub>6</sub>
Print the cash in drawer of sub currency on reports.	b No = 0 Yes = 2	
Display symbol of sub currency: ① E, ② L	c ① = 0 ② = 4	<input type="checkbox"/> (a+b+c) D <sub>5</sub>
The currency to restrict (to 00, 25, 50, 75) on last two digits for amount tendered: ① Main currency, ② Sub currency	a ① = 0 ② = 1	
Print rounding total of sub currency on fix total report.	b No = 0 Yes = 2	
Last 1 digit for sub currency monetary amount entries to 0 or 5.	c No = 0 Yes = 4	<input type="checkbox"/> 0 0 0 0 D <sub>4</sub> D <sub>3</sub> D <sub>2</sub> D <sub>1</sub>
Always "0"		

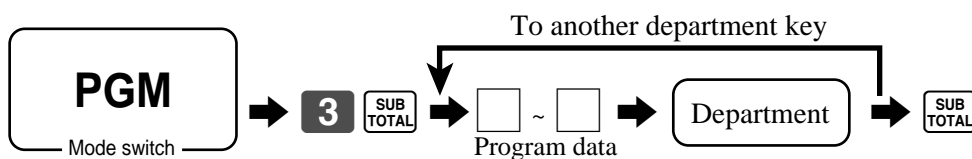
\* IF 1, IF 2, Danish, Norwegian and Singaporean rounding, refer to page 56.

## Programming department/PLU

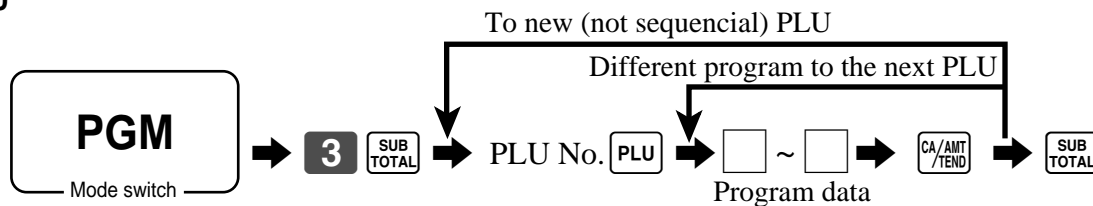
There are two ways to program to department/PLU, batch feature programming and individual feature programming.

### Batch feature programming to department/PLU

#### • Department



#### • PLU



• Program data

Description		Choice	Program code
Single item control: Normal receipt = 0, Single item receipt = 3		Significant number	<input type="checkbox"/> D <sub>12</sub>
Always "0"			<input type="checkbox"/> D <sub>11</sub>
Normal/condiment/preparation Normal item = 0, Condiment = 1, Preparation = 2		Significant number	<input type="checkbox"/> D <sub>10</sub>
Enable operation in RF/REG- mode.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b+c) D <sub>9</sub>
Enable operation in REG 2 mode.	b	Yes = 0 No = 2	
Enable operation in REG 1 mode.	c	Yes = 0 No = 4	
Taxable status: See below.			<input type="checkbox"/> <input type="checkbox"/> D <sub>8</sub> D <sub>7</sub>
Enable 0 unit price.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>6</sub>
Enable negative price.	b	No = 0 Yes = 2	
Hash	c	No = 0 Yes = 4	
Always "0"			<input type="checkbox"/> D <sub>5</sub>
Low digit limitation (LDL) for manually entered unit price.		Significant number	<input type="checkbox"/> D <sub>4</sub>
Multiple validation: (If "No", only one validation is possible.)	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b) D <sub>3</sub>
Open PLU (Only effective for PLU)	b	No = 0 Yes = 4	
Commission 1	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b) D <sub>2</sub>
Commission 2	b	No = 0 Yes = 2	
Compulsory number of condiment/preparation PLU input.		Significant number (0 ~ 8)	<input type="checkbox"/> D <sub>1</sub>

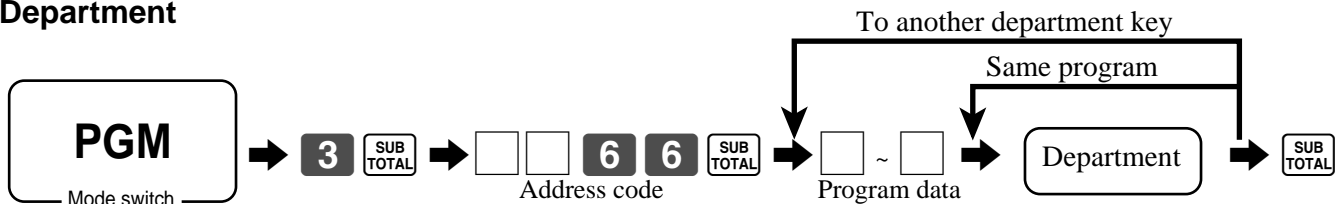
Taxable status

for Singapore			
Always "0"			<input type="checkbox"/> D <sub>8</sub>
Taxable 1 status	a	Yes = 1 No = 0	<input type="checkbox"/> (a+b+c) D <sub>7</sub>
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for other area			
Non tax = 0 Taxable 1 = 1 Taxable 2 = 2 Taxable 3 = 3	Taxable 4 = 4 Taxable 5 = 5 Taxable 6 = 6 Taxable 7 = 7	Taxable 8 = 8 Taxable 9 = 9 Taxable 10 = 10	Significant numbers <input type="checkbox"/> <input type="checkbox"/> D <sub>8</sub> D <sub>7</sub>

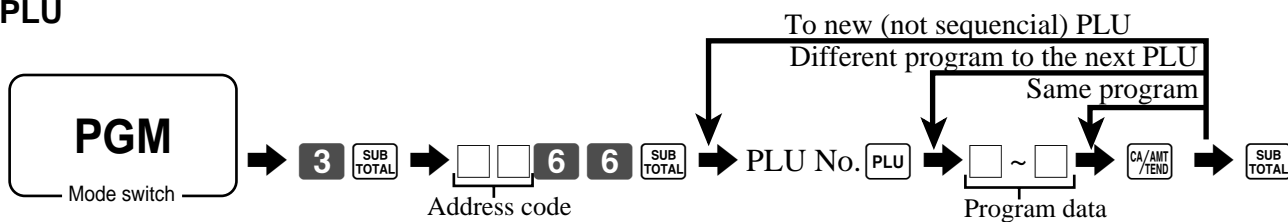
# Advanced Operations and Setups

## Individual feature programming to department/PLU

### • Department



### • PLU



### • Program data

#### Address code 1166

Description	Choice	Program code				
Link group record number: (00 ~ 15)	Significant numbers	<table border="1"><tr><td>□</td><td>□</td></tr><tr><td>D<sub>6</sub></td><td>D<sub>5</sub></td></tr></table>	□	□	D <sub>6</sub>	D <sub>5</sub>
□	□					
D <sub>6</sub>	D <sub>5</sub>					
Link department record number: (00 ~ 15) (for PLU)	Significant numbers	<table border="1"><tr><td>□</td><td>□</td></tr><tr><td>D<sub>4</sub></td><td>D<sub>3</sub></td></tr></table>	□	□	D <sub>4</sub>	D <sub>3</sub>
□	□					
D <sub>4</sub>	D <sub>3</sub>					
Always "0"		<table border="1"><tr><td>0</td><td>0</td></tr><tr><td>D<sub>2</sub></td><td>D<sub>1</sub></td></tr></table>	0	0	D <sub>2</sub>	D <sub>1</sub>
0	0					
D <sub>2</sub>	D <sub>1</sub>					

#### Address code 1266

Description	Choice	Program code								
PLU random code (only for PLU)	Significant numbers	<table border="1"><tr><td>□</td><td>□</td><td>□</td><td>□</td></tr><tr><td>D<sub>6</sub></td><td>D<sub>5</sub></td><td>D<sub>4</sub></td><td>D<sub>3</sub></td></tr></table>	□	□	□	□	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>
□	□	□	□							
D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>							

#### Address code 1366

Description	Choice	Program code								
Set menu table record number (only for PLU)	Significant numbers	<table border="1"><tr><td>□</td><td>□</td><td>□</td><td>□</td></tr><tr><td>D<sub>6</sub></td><td>D<sub>5</sub></td><td>D<sub>4</sub></td><td>D<sub>3</sub></td></tr></table>	□	□	□	□	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>
□	□	□	□							
D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>							
Set menu table file number (only for PLU) Always "28"		<table border="1"><tr><td>2</td><td>8</td></tr><tr><td>D<sub>2</sub></td><td>D<sub>1</sub></td></tr></table>	2	8	D <sub>2</sub>	D <sub>1</sub>				
2	8									
D <sub>2</sub>	D <sub>1</sub>									

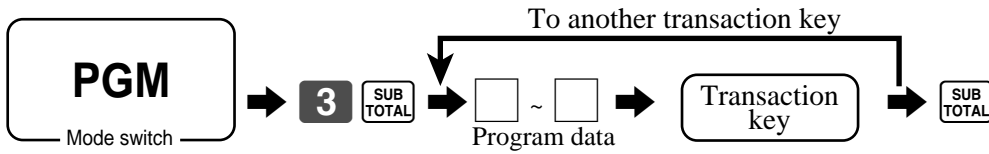
#### Address code 1566

Description	Choice	Program code								
High amount limit for entering unit price manually.	Significant numbers	<table border="1"><tr><td>□</td><td>□</td><td>□</td><td>□</td></tr><tr><td>D<sub>6</sub></td><td>D<sub>5</sub></td><td>D<sub>4</sub></td><td>D<sub>3</sub></td></tr></table>	□	□	□	□	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>
□	□	□	□							
D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>							



# Programming to transaction keys

## Procedure



## Data

<CASH>, <CHARGE>, <CHECK>

Description		Choice	Program code
Allowable number of validation printing ("0" means no limitation) *1 *2 *3 *4		Significant number (0 ~ 9)	<input type="text"/> D <sub>11</sub>
Force validation operation. *1 *2 *3 *4	a	No = 0 Yes = 1	<input type="text"/> (a+b) D <sub>10</sub>
Restriction (to 00, 25, 50, 75) on last two digits for amount tendered (Only for <CASH> in Danish rounding) *4	b	No = 0 Yes = 4	
Disable operation in RF/REG- mode. *3 *4	a	No = 0 Yes = 1	<input type="text"/> (a+b+c) D <sub>9</sub>
Disable operation in REG2 mode. *3 *4	b	No = 0 Yes = 2	
Disable operation in REG1 mode. *3 *4	c	No = 0 Yes = 4	
Always "0"			<input type="text"/> D <sub>8</sub>
Prohibit entry of a partial payment	a	No = 0 Yes = 1	<input type="text"/> (a+b+c) D <sub>7</sub>
Prohibit the entry of the amount tendered.	b	No = 0 Yes = 2	
Force entry of the amount tendered.	c	No = 0 Yes = 4	
Print VAT breakdown. *1 *3	a	No = 0 Yes = 1	<input type="text"/> (a+b+c) D <sub>6</sub>
Check cashing commission (Only for <CHECK>) *2 ① Use an amount      ② Use a rate	b	Amount = 0 Rate = 2	
Validation amount *2 *3 ① Print subtotal amount    ② Print amount tendered	c	Subtotal = 0 Tender = 4	
Always "0"			<input type="text"/> D <sub>5</sub>
High amount limit specification for subtotal and tendering amounts. *2	Maximum value (0 ~ 9)		<input type="text"/> D <sub>4</sub> D <sub>3</sub>
	Number of zeros (0 ~ 9)		
High amount limit specification for change amount due.	Maximum value (0 ~ 9)		<input type="text"/> D <sub>2</sub> D <sub>1</sub>
	Number of zeros (0 ~ 9)		

\*1 Those are valid options for SINGLE ITEM as well.

\*2 Those are valid options for CASHING A CHECK as well.

\*3 Those are valid options for CURRENCY EXCHANGE (include partial tender) as well.

\*4 Those are valid options for MEDIA CHANGE (include partial tender) as well.

# Advanced Operations and Setups

## <CREDIT>

Description		Choice	Program code
Allowable number of validation printing ("0" means no limitation) *1		Significant number (0 ~ 9)	<input type="text"/> D <sub>11</sub>
Force validation operation. *1		No = 0 Yes = 1	<input type="text"/> D <sub>10</sub>
Disable operation in RF/REG- mode. *1	a	No = 0 Yes = 1	<input type="text"/> (a+b+c) D <sub>9</sub>
Disable operation in REG2 mode. *1	b	No = 0 Yes = 2	
Disable operation in REG1 mode. *1	c	No = 0 Yes = 4	
Always "0"			<input type="text"/> D <sub>8</sub>
Prohibit entry of a partial payment	a	No = 0 Yes = 1	<input type="text"/> (a+b+c) D <sub>7</sub>
Prohibit the entry of the amount tendered.	b	No = 0 Yes = 2	
Force entry of the amount tendered.	c	No = 0 Yes = 4	
Print VAT breakdown.	a	No = 0 Yes = 1	<input type="text"/> (a+b) D <sub>6</sub>
Validation amount ① Print subtotal amount ② Print amount tendered	b	Subtotal = 0 Tender = 4	
Always "0"			<input type="text"/> D <sub>5</sub>
High amount limit specification for subtotal and tendering amounts		Maximum value (0 ~ 9)	<input type="text"/> <input type="text"/> D <sub>4</sub> D <sub>3</sub>
		Number of zeros (0 ~ 9)	
Always "0"			<input type="text"/> D <sub>2</sub>
Specify credit in drawer total in the fixed totalizer. *1		Significant number (0 ~ 4)	<input type="text"/> D <sub>1</sub>

\*1 Those are valid options for MEDIA CHANGE (include partial tender) as well.

## <RECEIVED ON ACCOUNT>, <PAID OUT>

Description		Choice	Program code
Allowable number of validation printing ("0" means no limitation)		Significant number (0 ~ 9)	<input type="text"/> D <sub>11</sub>
Force validation operation.		No = 0 Yes = 1	<input type="text"/> D <sub>10</sub>
Disable operation in RF/REG- mode.	a	No = 0 Yes = 1	<input type="text"/> (a+b+c) D <sub>9</sub>
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Always "0"			<input type="text"/> ~ <input type="text"/> D <sub>8</sub> ~ D <sub>5</sub>
High amount limit specification for entering amounts		Maximum value (0 ~ 9)	<input type="text"/> <input type="text"/> D <sub>4</sub> D <sub>3</sub>
		Number of zeros (0 ~ 9)	
Always "0"			<input type="text"/> <input type="text"/> D <sub>2</sub> D <sub>1</sub>

<#/NO SALE>

Description		Choice	Program code
Disable operation in RF/REG- mode.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>9</sub>
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Always "0"			<input type="checkbox"/> D <sub>8</sub>
Allow mode change or clerk change after non-add registration as first transaction. (only for non-add function)		Yes = 1 No = 0	<input type="checkbox"/> D <sub>7</sub>
Always "0"			<input type="checkbox"/> ~ <input type="checkbox"/> D <sub>6</sub> ~ D <sub>1</sub>

<%+>, <%->

Description		Choice	Program code
Multiple validation (If "No", only one validation printing is possible.)		Yes = 0 No = 4	<input type="checkbox"/> D <sub>11</sub>
Always "0"			<input type="checkbox"/> D <sub>10</sub>
Disable operation in RF/REG- mode.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>9</sub>
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Taxable status: See below.			<input type="checkbox"/> <input type="checkbox"/> D <sub>8</sub> D <sub>7</sub>
Prohibit manual rate override.		No = 0 Yes = 2	<input type="checkbox"/> D <sub>6</sub>
Rounding: Round off = 0, cut off = 1, round up = 2		Significant number	<input type="checkbox"/> D <sub>5</sub>
Allow key operation after <SUBTOTAL>.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b) D <sub>4</sub>
Allow key operation after item registration.	b	Yes = 0 No = 4	
Always "0"			<input type="checkbox"/> D <sub>3</sub>
Commission status: Commission 1 = 1, Commission 2 = 2, None = 0		Significant number	<input type="checkbox"/> D <sub>2</sub>
Always "0"			<input type="checkbox"/> D <sub>1</sub>

**Taxable status**

for Singapore			
Always "0"			<input type="checkbox"/> D <sub>8</sub>
Taxable 1 status	a	Yes = 1 No = 0	<input type="checkbox"/> (a+b+c) D <sub>7</sub>
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for other area			
Non tax = 0	Taxable 4 = 4	Taxable 8 = 8	Significant numbers <input type="checkbox"/> <input type="checkbox"/> D <sub>8</sub> D <sub>7</sub>
Taxable 1 = 1	Taxable 5 = 5	Taxable 9 = 9	
Taxable 2 = 2	Taxable 6 = 6	Taxable 10 = 10	
Taxable 3 = 3	Taxable 7 = 7	Alltaxable = 99	

# Advanced Operations and Setups

<+>, <->, <COUPON>

Description		Choice	Program code
Multiple validation (If "No", only one validation printing is possible.)		Yes = 0 No = 4	<input type="checkbox"/> D <sub>11</sub>
Always "0"			<input type="checkbox"/> D <sub>10</sub>
Disable operation in RF/REG- mode.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>9</sub>
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Taxable status: See below.			<input type="checkbox"/> <input type="checkbox"/> D <sub>8</sub> D <sub>7</sub>
Allow credit balance. (-, CPN only)		No = 0 Yes = 1	<input type="checkbox"/> D <sub>6</sub>
Always "0"			<input type="checkbox"/> D <sub>5</sub>
Allow key operation after <SUBTOTAL>.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b) D <sub>4</sub>
Allow key operation after item registration.	b	Yes = 0 No = 4	
High digit limitation (HDL) for manually entered unit price ("9" means NOT allow manual entry.)		Significant number	<input type="checkbox"/> D <sub>3</sub>
Commission status: Commission 1 = 1, Commission 2 = 2, None = 0		Significant number	<input type="checkbox"/> D <sub>2</sub>
Always "0"			<input type="checkbox"/> D <sub>1</sub>

## Taxable status

for Singapore			
Always "0"			<input type="checkbox"/> D <sub>8</sub>
Taxable 1 status	a	Yes = 1 No = 0	<input type="checkbox"/> (a+b+c) D <sub>7</sub>
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for other area			
Non tax = 0	Taxable 4 = 4	Taxable 8 = 8	Significant numbers <input type="checkbox"/> <input type="checkbox"/> D <sub>8</sub> D <sub>7</sub>
Taxable 1 = 1	Taxable 5 = 5	Taxable 9 = 9	
Taxable 2 = 2	Taxable 6 = 6	Taxable 10 = 10	
Taxable 3 = 3	Taxable 7 = 7	Alltaxable = 99	

## <ARRANGEMENT>

Description		Choice	Program code
Secret code (0000 ~ 9999)		Yes = 0 No = 1	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D <sub>14</sub> D <sub>13</sub> D <sub>12</sub> D <sub>11</sub>
Enable operation in X1 mode.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b+c) D <sub>10</sub>
Enable operation in Z1 mode.	b	Yes = 0 No = 2	
Enable operation in X2/Z2 mode.	c	Yes = 0 No = 4	
Enable operation in RF/REG- mode.	a	Yes = 0 No = 1	<input type="checkbox"/> (a+b+c) D <sub>9</sub>
Enable operation in REG2 mode.	b	Yes = 0 No = 2	
Enable operation in REG1 mode.	c	Yes = 0 No = 4	
Always "0"			<input type="checkbox"/> D <sub>8</sub>
Treat numeric entry as arrange table number		No = 0 Yes = 1	<input type="checkbox"/> D <sub>7</sub>
Arrangement table link number		Significant numbers	<input type="checkbox"/> ~ <input type="checkbox"/> D <sub>6</sub> ~ D <sub>1</sub>

## <CURRENCY EXCHANGE>

Description		Choice	Program code
Disable operation in RF/REG- mode.	a	No = 0 Yes = 1	<input type="checkbox"/> (a+b+c) D <sub>9</sub>
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Always "0"			<input type="checkbox"/> D <sub>8</sub>
Define amount symbol. (0, 1 ~ 4) ("0" means local currency symbol.)		Significant number	<input type="checkbox"/> D <sub>7</sub>
Define foreign currency totalizer. (0, 1 ~ 4) ("0" treats as "1".)		Significant number	<input type="checkbox"/> D <sub>6</sub>
Rounding: Round off = 0, cut off = 1, round up = 2		Significant number	<input type="checkbox"/> D <sub>5</sub>
Always "0"			<input type="checkbox"/> D <sub>4</sub>
Monetary mode (0 ~ 9): □□□ = 2, □□ = 1, □ = 0		Significant number	<input type="checkbox"/> D <sub>3</sub>
Monetary symbol for decimal	a	Decimal = 0 Comma = 1	<input type="checkbox"/> (a+b) D <sub>2</sub>
Monetary symbol for separator	b	Comma = 0 Decimal = 4	
Assigning drawer number: 0 ~ 2 ("0" means drawer 1.)		Significant number	<input type="checkbox"/> D <sub>1</sub>

# Advanced Operations and Setups

## <POST RECEIPT>

Description		Choice	Program code
Maximum number of post receipts (0 ~ 9) ("0" means 1 post receipt.)		Significant number	<input type="text"/> D <sub>12</sub>
Always "0"			<input type="text"/> <input type="text"/> D <sub>11</sub> D <sub>10</sub>
Disable operation in RF/REG- mode.	a	No = 0 Yes = 1	<input type="text"/> (a+b+c) D <sub>9</sub>
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Always "0"			<input type="text"/> D <sub>8</sub>
Print current time on guest receipt.		No = 0 Yes = 4	<input type="text"/> D <sub>7</sub>
Clear finalized check.		Yes = 0 No = 1	<input type="text"/> D <sub>6</sub>
Always "0"			<input type="text"/> <input type="text"/> <input type="text"/> D <sub>5</sub> D <sub>4</sub> D <sub>3</sub>
Line number of guest bottom message (00 ~ 10): ("00" means no bottom message.)		Significant number	<input type="text"/> <input type="text"/> D <sub>2</sub> D <sub>1</sub>

## <MULTIPLICATION>, <QUANTITY/FOR>, <SQUARE>, <CUBE>

Description		Choice	Program code
Disable operation in RF/REG- mode.	a	No = 0 Yes = 1	<input type="text"/> (a+b+c) D <sub>9</sub>
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Always "0"			<input type="text"/> <input type="text"/> D <sub>8</sub> D <sub>7</sub>
Multiplication procedure: (<X> only) ① Quantity × Amount, ② Amount × Quantity		① = 0 ② = 1	<input type="text"/> D <sub>6</sub>
Rounding: Round off = 0, cut off = 1, round up = 2		Significant number	<input type="text"/> D <sub>5</sub>
Always "0"			<input type="text"/> ~ <input type="text"/> D <sub>4</sub> ~ D <sub>1</sub>

Character programming can be performed in two ways:

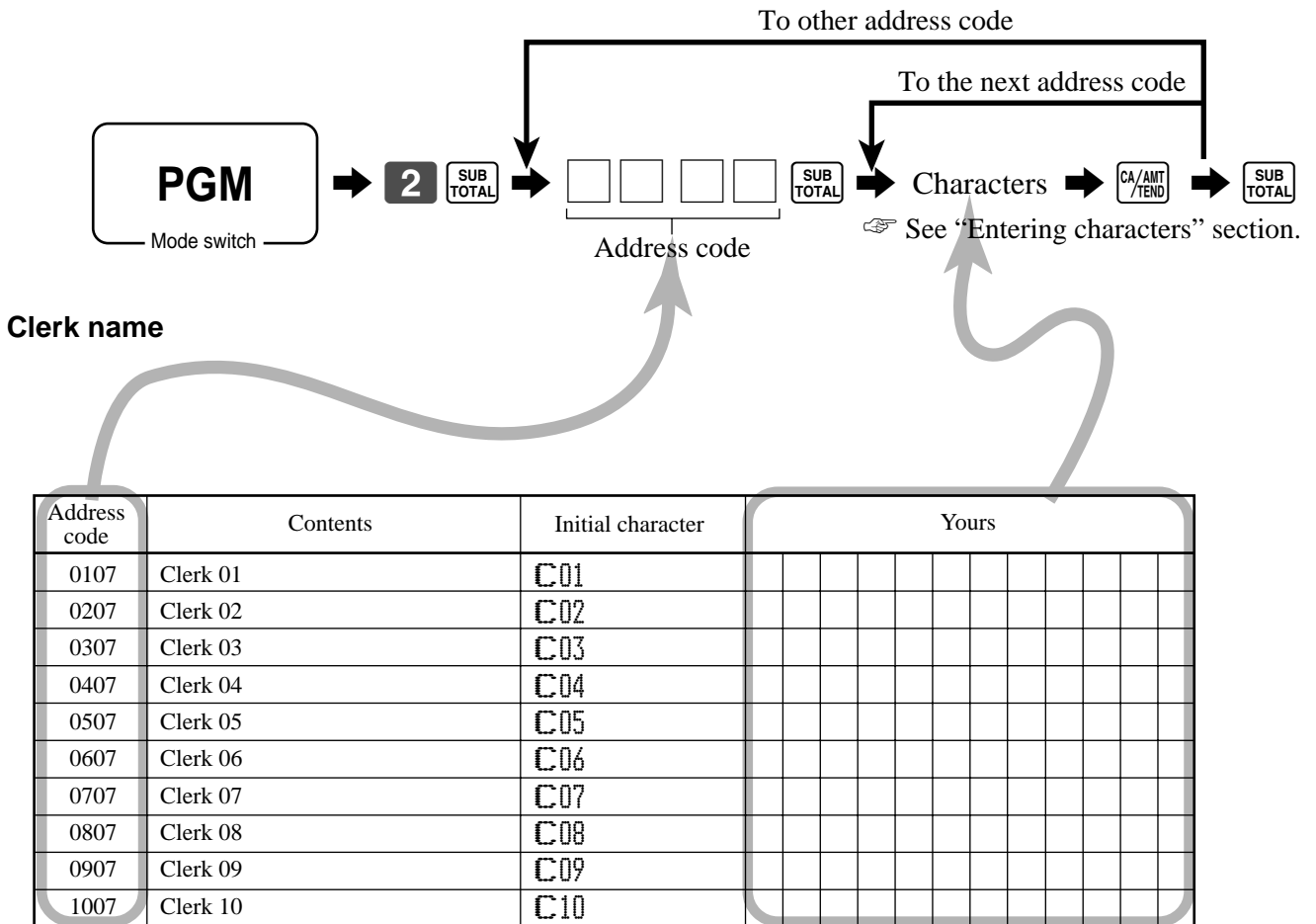
- Character keyboard programming (see page 78),  
or
- Entering characters by code (see page 79.)

## Programming descriptors and messages

The following descriptors and messages can be programmed;

- Clerk name
- Fix totalizer
- Special character
- PLU item descriptor
- Messages
- Report header
- Department key descriptor
- Machine number

### Programming clerk name and messages







## Fix totalizer

Up to 12 characters can be set.

Address code	Contents	Initial character	Address code	Contents	Initial character
Fix totalizer					
0101	Gross sales total	GROSS	5101	Clerk commission 1 total	C-1
0201	Net sales total	NET	5201	Clerk commission 2 total	C-2
0301	Cash in drawer	CAID	5301	Foreign currency cash in drawer 1	CECA1
0401	Cash declared amount	CATL	5401	Foreign currency check in drawer 1	CECK1
0501	Declared short cash amount	CA-	5501	Foreign currency cash in drawer 2	CECA2
0601	Declared over cash amount	CA+	5601	Foreign currency check in drawer 2	CECK2
0701	Charge in drawer	CHID	5701	Foreign currency cash in drawer 3	CECA3
0801	Charge declared amount	CHTL	5801	Foreign currency check in drawer 3	CECK3
0901	Declared short charge amount	CH-	5901	Foreign currency cash in drawer 4	CECA4
1001	Declared over charge amount	CH+	6001	Foreign currency check in drawer 4	CECK4
1101	Check in drawer	CKID	6101	Reduction	DC
1201	Check declared amount	CKTL	6201	Item return	REF
1301	Declared short check amount	CK-	6301	Clear counter	CLEAR
1401	Declared over check amount	CK+	6401	Rounding 2	ROUND
1501	Credit 1 in drawer	CRID(1)	6501	Rounding 1	ROUND
1601	Credit 2 in drawer	CRID(2)	6601	Cancellation	CANCEL
1701	Credit 3 in drawer	CRID(3)	6701	Taxable amount 1	TA1
1801	Credit 4 in drawer	CRID(4)	6801	Tax 1	TX1
1901	Credit declared amount	CRTL	6901	Tax exempt 1	EX1
2001	Declared short credit amount	CR-	7001	Taxable amount 2	TA2
2101	Declared over credit amount	CR+	7101	Tax 2	TX2
2201	Cash in drawer *	CAID2	7201	Tax exempt 2	EX2
2301	Cash declared amount *	CATL2	7301	Taxable amount 3	TA3
2401	Declared short cash amount *	CA- 2	7401	Tax 3	TX3
2501	Declared over cash amount *	CA+ 2	7501	Tax exempt 3	EX3
2601	Charge in drawer *	CHID2	7601	Taxable amount 4	TA4
2701	Charge declared amount *	CHTL2	7701	Tax 4	TX4
2801	Declared short charge amount *	CH- 2	7801	Tax exempt 4	EX4
2901	Declared over charge amount *	CH+ 2	7901	Taxable amount 5	TA5
3001	Check in drawer *	CKID2	8001	Tax 5	TX5
3101	Check declared amount *	CKTL2	8101	Tax exempt 5	EX5
3201	Declared short check amount *	CK- 2	8201	Taxable amount 6	TA6
3301	Declared over check amount *	CK+ 2	8301	Tax 6	TX6
3401	Credit 1 in drawer *	CRID2(1)	8401	Tax exempt 6	EX6
3501	Credit 2 in drawer *	CRID2(2)	8501	Taxable amount 7	TA7
3601	Credit 3 in drawer *	CRID2(3)	8601	Tax 7	TX7
3701	Credit 4 in drawer *	CRID2(4)	8701	Tax exempt 7	EX7
3801	Credit declared amount *	CRTL2	8801	Taxable amount 8	TA8
3901	Declared short credit amount *	CR- 2	8901	Tax 8	TX8
4001	Declared over credit amount *	CR+ 2	9001	Tax exempt 8	EX8
4101-4401	Not used		9101	Taxable amount 9	TA9
4501	Refund mode total	RF	9201	Tax 9	TX9
4601	Customer count	CUST	9301	Tax exempt 9	EX9
4701	Average sales per customer	AVRG	9401	Taxable amount 10	TA10
4801	Check cashing service fee	FEE	9501	Tax 10	TX10
4901	New Balance fee	+	9601	Tax exempt 10	EX10
5001	New balance total	NB	9701	Nontaxable amount	NON TAX

\* For sub currencies

# Advanced Operations and Setups

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## Report header

Up to 12 characters can be set.

Address code	Contents	Initial character
Report header		
0124	Fixed totalizer report	FIX
0224	Transaction key report	TRANS
0324	PLU report	PLU
0424	Department report	DEPT
0524	Group report	GROUP
0624	Cashier/clerk report	CASHIER
0724	Not used	
0824	Hourly sales report	HOURLY
0924	Monthly sales report	MONTHLY
1024-1324	Not used	
1424	Hourly item	HOURLY ITEM
1524	Not used	
1624	Financial report	FLASH
1724	Not used	
1824	PLU by amount	PLU AMT
1924	PLU by quantity	PLU QTY
2024	Department by amount	DEPT AMT
2124	Department by quantity	DEPT QTY
2224-2324	Not used	
2424	Individual report	INDIVIDUAL
2524	Not used	

## Machine number

Up to 8 characters can be set.

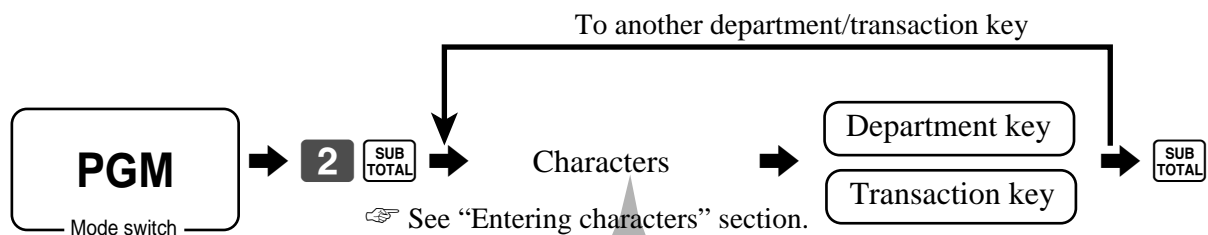
Address code	Contents	Initial character
Machine number		
0191	Machine number	MC#01

## Special characters

Address code	Contents	Descriptor
0123	Main currency symbol (2), @(2), No. (2), split pricing (2), Training filler (1), not used(2), Sub currency symbols (2)	· @No / ** €
0223	No. of item sold (2), Customer count (2),	NoCT@ LB *QT
0323	Multiplication (6), Recalling for a check (6)	X : : : : BUSY : : :
0423	Taxable symbol 1 (3 ea.) Tax1, Tax2, Tax3, Tax4, Tax5	T1 T2 T3 T4 T5
0523	Taxable symbol 2 (3 ea.) Tax6, Tax7, Tax8, Tax9, Tax10	T6 T7 T8 T9 T10
0623	Taxable symbol 3 (3 ea.) Tax1/2, Tax1/3, Tax1/4, not used, Tax2/3	T12T13T14 : : T23
0723	Taxable symbol 4 (3 ea.) not used, not used, not used,Nontax,All	: : : T : : : F
0823	Foreign currency (2 ea.)	* * * * *
0923	Mode symbol 1 (4 ea.) REG1/2, RF, REG-	REG R F R - MGR
1023	Mode symbol 2 (4 ea.) PGM, Daily X, Daily Z, Periodic	P r : X : Z : XZ
1123	Mode symbol 3 (4 ea.) Training, not used, PGM read	TRG : : : PGMX : : :
1223	Decimal: amount/q'ty, Separator (Main/Sub) (1 ea.), not used (3), Square (7)	. , . , . , X
1323	A.M., P.M. (3 ea.), ST displayed on the dot display (2)	AM PM ST
1423-1523	(not used)	
1623	(not used)	
1723	Subtotal symbol (16)	ST
1823	Total symbol (16)	TL
1923	Change symbol (16)	CG
2023	Check cashing fee (16)	-
2123	Check cashing amount (16)	CACG
2223	(not used)	
2323	Break (16)	**BREAK END**
2423	Check No. (10)	CHECK No.
2523	Service total (16)	SRVC TL
2623	(not used)	
2723-2823	(not used)	
2923	Report total symbol(16)	TL
3023-3223	(not used)	
3323	Table no. symbol (10)	TABLE No.
3423	(not used)	
3523	Declared amount (16)	DECLA
3623	(not used)	
3723-4123	(not used)	
4223	Designating sub currency (16)	EURO money

# Advanced Operations and Setups

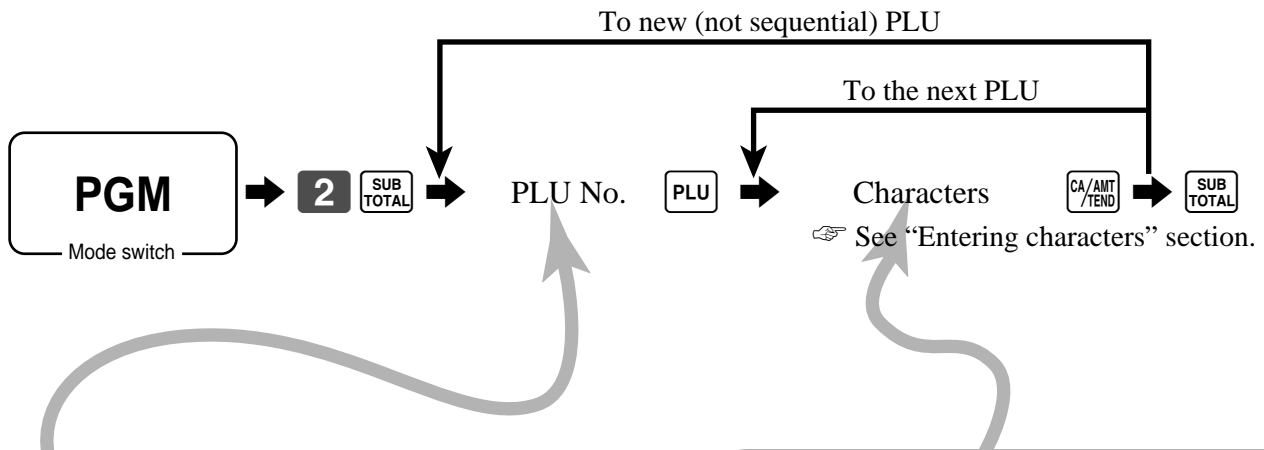
## Programming department/transaction key descriptor



Contents	Initial character	Yours											
Department 01	DEPT01												
Department 02	DEPT02												
Department 03	DEPT03												
Department 04	DEPT04												
Department 05	DEPT05												
Department 06	DEPT06												
Department 07	DEPT07												
Department 08	DEPT08												
Department 09	DEPT09												
Department 10	DEPT10												
Department 11	DEPT11												
Department 12	DEPT12												
Department 13	DEPT13												
Department 14	DEPT14												
Department 15	DEPT15												

Contents	Initial character	Yours											
Cash/Amount tendered	CASH												
Charge	CHARGE												
Credit 1	CREDIT1												
Credit 2	CREDIT2												
Check	CHECK												
Received on account	RC												
Paid out	PD												
Coupon	COUPON												
Minus	-												
Discount	%-												
Refund	RF												
Correction	CORR												
Validation	VLD												
Receipt	RCT												
Non add/No sale	#/NS												
VAT	VAT												
PLU	PLU#												
Price	PRC												
Open	OPEN												
Subtotal	SUBTOTAL												
Receipt on/off	RCT ON/OFF												
Multiplication/Date time	X												
Two zero	00												
Decimal point	.												
Media change	MEDIA CHG												

## Programming PLU descriptor



PLU No.	Contents	Initial character	Yours																				
001	PLU 001	PLU0001																					
002	PLU 002	PLU0002																					
003	PLU 003	PLU0003																					
004	PLU 004	PLU0004																					
005	PLU 005	PLU0005																					
006	PLU 006	PLU0006																					
007	PLU 007	PLU0007																					
008	PLU 008	PLU0008																					
009	PLU 009	PLU0009																					
010	PLU 010	PLU0010																					
011	PLU 011	PLU0011																					
012	PLU 012	PLU0012																					
013	PLU 013	PLU0013																					
014	PLU 014	PLU0014																					
015	PLU 015	PLU0015																					
016	PLU 016	PLU0016																					
017	PLU 017	PLU0017																					
018	PLU 018	PLU0018																					
019	PLU 019	PLU0019																					
020	PLU 020	PLU0020																					
021	PLU 021	PLU0021																					
022	PLU 022	PLU0022																					
023	PLU 023	PLU0023																					
024	PLU 024	PLU0024																					
025	PLU 025	PLU0025																					
026	PLU 026	PLU0026																					
027	PLU 027	PLU0027																					
028	PLU 028	PLU0028																					
029	PLU 029	PLU0029																					
098	PLU 098	PLU0098																					
099	PLU 099	PLU0099																					
100	PLU 100	PLU0100																					

## Entering characters

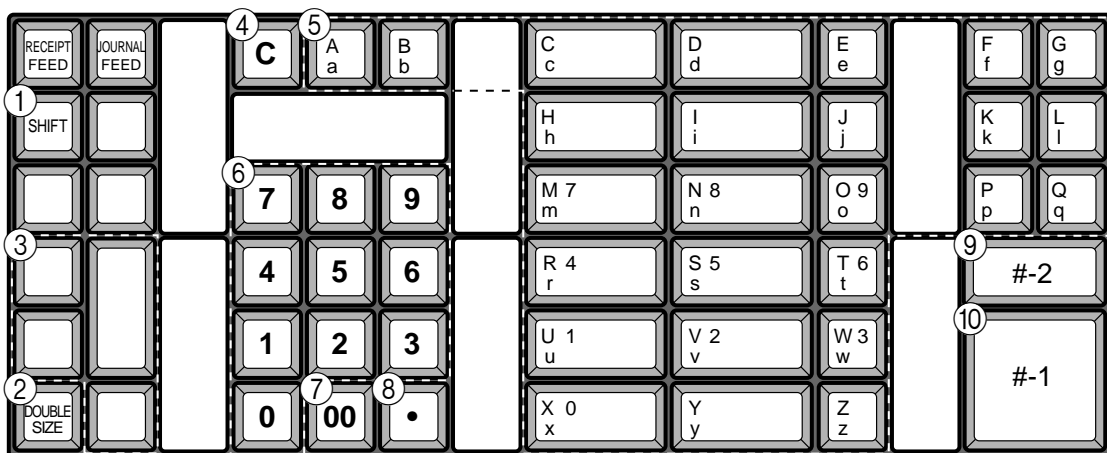
In this section, the method to enter descriptors or messages (characters) to the cash register during programming is described.

Characters are specified by character keyboard or by codes. In the first half of this section, the usage of character keyboard is described. In the latter half, inputting method by character code is described.

### Using character keyboard


#### Example:

Input “ **A** p p l e J u i c e ”,  
 enter “DBL” “A” “SHIFT” “p” “p” “l” “e” “SPACE” “SHIFT” “SHIFT” “J” “SHIFT” “u” “i” “c” “e” **00** .












- ① **Shift key**  
Pressing this key shifts the character through the upper-case letter, lower case letter, numerics and returns to the uppercase letter in sequence.
- ② **Double size letter key**  
Specifies that the next character you input to a double size character.  
You must press this key before each double size character.
- ③ **Space key**  
Sets a space by depression.
- ④ **Clear key**  
Clears all input characters in the programming.
- ⑤ **Alphabet keys**  
Used input to characters.
- ⑥ **Numeric keys**  
Used to enter program codes, memory number and character codes.
- ⑦ **Character fixed key**  
Enter when the alphabetic entry for a descriptor, name or message has been completed.
- ⑧ **Backspace/Character code fixed key**  
Registers one character with code (2 or 3 digit).  
Clears the last input character, much like a back space key. (Does not clear the double size letter key entry.)
- ⑨ **Program end key**  
Terminates the character programming.
- ⑩ **Character enter key**  
Registers the programmed characters.

## Entering characters by code

Every time you enter a character, choose character codes by the character code list (below) and press the  key to settle it. After you complete entering characters, press the **00** key to fix them.

**Example:**

Input “  P P l e J u i c e ”,  
 enter “ 255  65  112  112  108  101  32  74  117  105  99  101  **00** ”

## Character code list

Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code
Space	32	0	48	À	64	Ð	80	`	96	Ɔ	112	Ç	128
!	33	1	49	Á	65	Ó	81	a	97	Ɣ	113	Ü	129
"	34	2	50	Â	66	Ô	82	b	98	ƕ	114	É	130
#	35	3	51	Ã	67	Õ	83	c	99	Ɩ	115	À	131
\$	36	4	52	Ä	68	Ö	84	d	100	Ɨ	116	Å	132
%	37	5	53	Å	69	Ù	85	e	101	Ƙ	117	Ä	133
&	38	6	54	Æ	70	Ú	86	f	102	ƙ	118	Å	134
'	39	7	55	Ç	71	Û	87	g	103	ƚ	119	Ç	135
(	40	8	56	È	72	Ü	88	h	104	ƛ	120	È	136
)	41	9	57	É	73	Ý	89	i	105	Ɯ	121	É	137
*	42	:	58	Ê	74	Þ	90	j	106	Ɲ	122	Ê	138
+	43	;	59	Ë	75	ß	91	k	107	ƞ	123	Ë	139
,	44	<	60	Ì	76	à	92	l	108	Ɵ	124	Ì	140
-	45	=	61	Í	77	á	93	m	109	ø	125	Í	141
.	46	>	62	Î	78	â	94	n	110	ˆ	126	Î	142
/	47	?	63	Ï	79	ã	95	o	111	˜	127	Ï	143
É	144	á	160	ÿ	176	ˆ	192	ò	208	ó	224	ˆ	240
æ	145	í	161	ÿ	177	ˆ	193	ð	209	ß	225	ˆ	241
Æ	146	ó	162	ÿ	178	ˆ	194	É	210	ò	226	ˆ	242
ô	147	ú	163	ı	179	ˆ	195	Ë	211	ò	227	ˆ	243
ö	148	ñ	164	ı	180	ˆ	196	È	212	õ	228	ˆ	244
ò	149	ñ	165	ı	181	ˆ	197	È	213	õ	229	ˆ	245
û	150	ª	166	ı	182	ˆ	198	İ	214	µ	230	ˆ	246
ù	151	º	167	ı	183	ˆ	199	İ	215	¶	231	ˆ	247
ÿ	152	¿	168	ı	184	ˆ	200	İ	216	¶	232	ˆ	248
ö	153	®	169	ı	185	ˆ	201	ı	217	ó	233	ˆ	249
ü	154	™	170	ı	186	ˆ	202	ı	218	ô	234	ˆ	250
ø	155	¼	171	ı	187	ˆ	203	ı	219	ô	235	ı	251
€	156	½	172	ı	188	ˆ	204	ı	220	ó	236	ı	252
Ø	157	ı	173	ı	189	ˆ	205	ı	221	ó	237	ı	253
×	158	«	174	ı	190	ˆ	206	ı	222	ˆ	238	ı	254
f	159	»	175	ı	191	ˆ	207	ı	223	ı	239	Double size	255

## Keyboard layout change

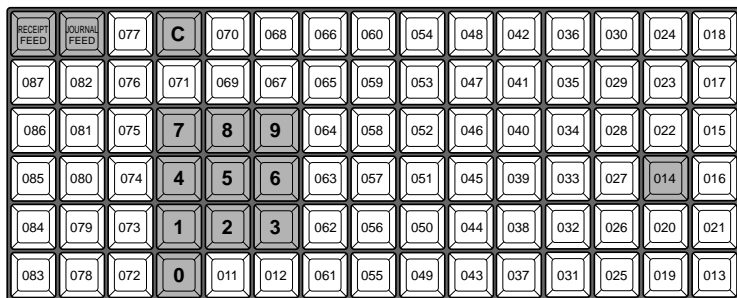
You can change the keyboard layout or allocate some new functions on the keyboard.

### Important!

Before changing the keyboard layout, you must issue the daily and all periodic report.

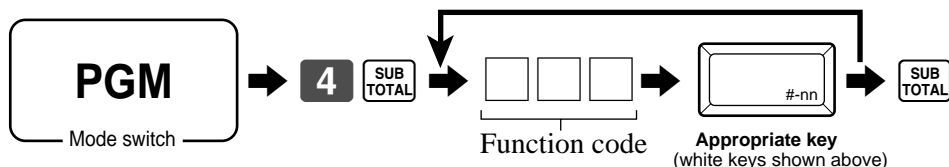
### Configuration of the physical key layout

The shadowed keys are fixed function keys. You can not change the function of these keys.



### Programming procedure

The shadowed keys are fixed function keys. You can not change the function of these keys.



### Function code list

Function	Code	Initial character	Function	Code	Initial character
Arrangement	044	ARG	Non-add/No sale	041	#/NS
Bill copy	047	BILL	Open	067	OPEN
Cancel	236	CNCL	Open2	068	OPEN2
Cash amount tendered	001	CASH	Paid out	021	PD
Charge	002	CHARGE	Pick up	022	P.UP
Check tender	003	CHECK	Plus	029	+
Clerk number	072	CLK#	PLU	048	PLU#
Coupon	023	COUPON	Previous balance	026	PB
Coupon 2	036	CPN2	Previous balance subtotal	079	PBST
Credit	004	CREDIT	Premium	030	%+
Cube	090	XXX	Price	049	PRC
Currency exchange	045	CE	Quantity/For	083	QT
Customer number	043	CT	Rate tax	031	TAX
Decimal point *	098	.	Receipt	038	RCT
Declaration	061	DECLARE	Receipt On/Off	076	RCT ON/OFF
Department	nn051	DEPTnn	Received on account	020	RC
Deposit	025	DEPOSIT	Refund	033	RF
Discount	028	%-	Review	071	REVIEW
Eat-in	128	EAT-IN	Square	084	XX
Enter	105	ENTER	Subtotal	075	SUBTOTAL
Error correct	034	CORR	Table number	058	TBL#
Flat PLU	nnnn063	PLUnnnn	Take-out	129	TAKE-OUT
Loan	019	LOAN	Tax exempt	062	EXEMPT
Lock out unused key	000	NOP	Tax status shift	057	T/S
Manual tax	032	TAX	Taxable amount subtotal	077	TAST
Media change	118	MEDIA CHG	Text recall	010	CHAR
Menu shift	064	MENU	Three zero *	097	000
Merchandise subtotal	080	MDST	Tip	015	TIP
Minus	027	-	Tray total	074	TRAY TL
Multiplication	082	X	Two zero *	096	00
New balance	006	NB	Validation	037	VLD
No sale	042	NS	VAT	046	VAT
Non-add	040	#	Void	035	VOID

\* Two zero, three zero and decimal point key can only be allocated #011 and #012 position.



---

## The outline of functions

### Bill copy

Use this key to issue bill copy.

### Cube

This key provides the same functions as the Square key. In addition, this key also has a cube multiplication function.

### Customer number

Use this key to register the number of customers.

### Declaration

Use this key to declare in drawer amount for money declaration.

### Deposit

Use this key to register deposits.

### Eat-in

Use this key to specify if the customer eats in the restaurant. Before closing a transaction press this key.

### Flat PLU

Use this key to register items to flat PLUs.

### Manual tax

Use this key to register a tax amount.

### Menu shift

Use this key to shift flat-PLU key to the 1st ~ 6th menu.

### Merchandise subtotal

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

### New balance

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

### Non add

Use this key to print reference numbers (personal check number, card number, etc.)

### Premium

Use this key to apply a preset % or manual input % to obtain the premium amount for the last registered item or subtotal.

### Previous balance

Use this key to register the previous negative/positive balance at the beginning of or during a transaction.

### Previous balance subtotal

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

### Rate tax

Use this key to activate the preset tax rate or manually input rate to obtain the tax for the preceding taxable status 1 amount.

### Review

Use this key to examine the current transaction by displaying item descriptor and registered amount. This key is also used for void operation.

### Square

This key provides the same functions as the Multiplication key. In addition, this key also has a square multiplication function.

### Table number

Use this key to input table numbers.

### Takeout

Use this key to specify if the customer takes out items. Before total a transaction. Press this key for the tax exemption.

### Tax exempt

Use this key to change taxable amounts to nontaxable amounts.

### Taxable amount subtotal

Use this key to obtain taxable amount subtotal.

### Text recall

Use this key to print preset characters.

### Tip

Use this key to register tips.

### Tray total

Use this key to display the total amount for all registrations from the last registration until this key is pressed or registrations between presses of this key.

### Void

Use this key to invalidate preceding item data registered.

## Printing read/reset reports

- **Daily sales read report (“X1” mode)**

You can print read reports at any time during the business day without affecting the data stored in the cash register's memory.

- **Daily sales reset report (“Z1” mode)**

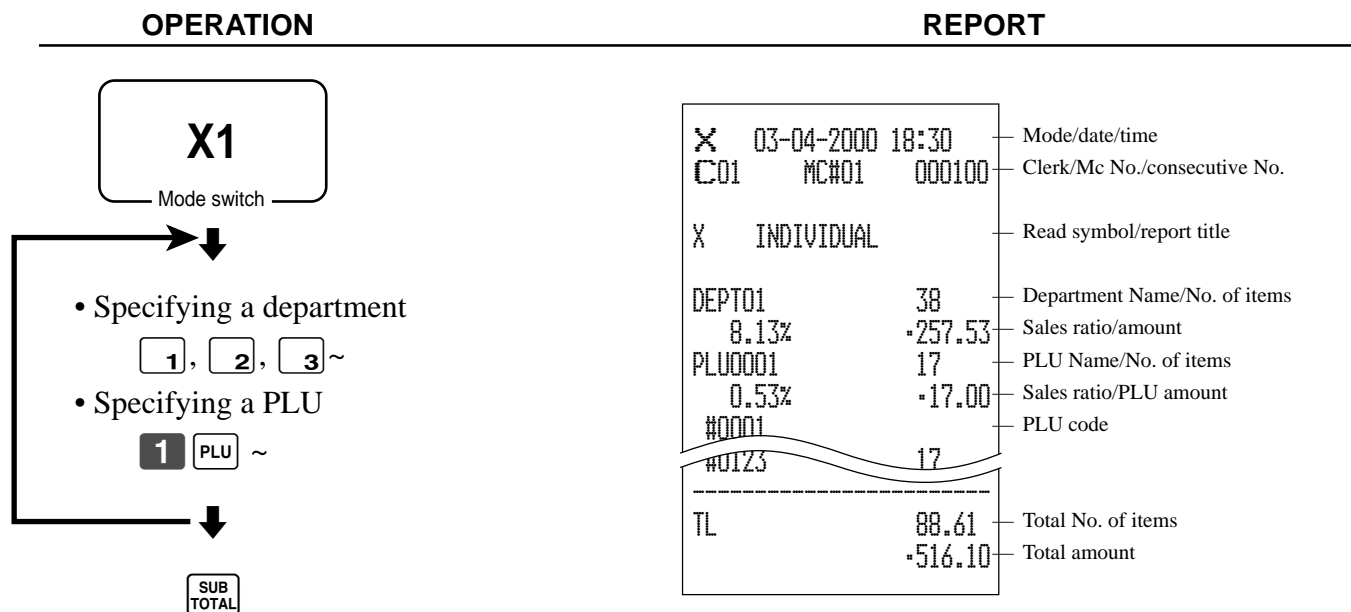
You should print reset reports at the end of the business day.

### Important!

- The reset operation issues a report and also clears all sales data from the cash register's memory.
- Be sure to perform the reset operations at the end of each business day. Otherwise, you will not be able to distinguish between the sales data for different dates.

### To print the individual department, PLU read report

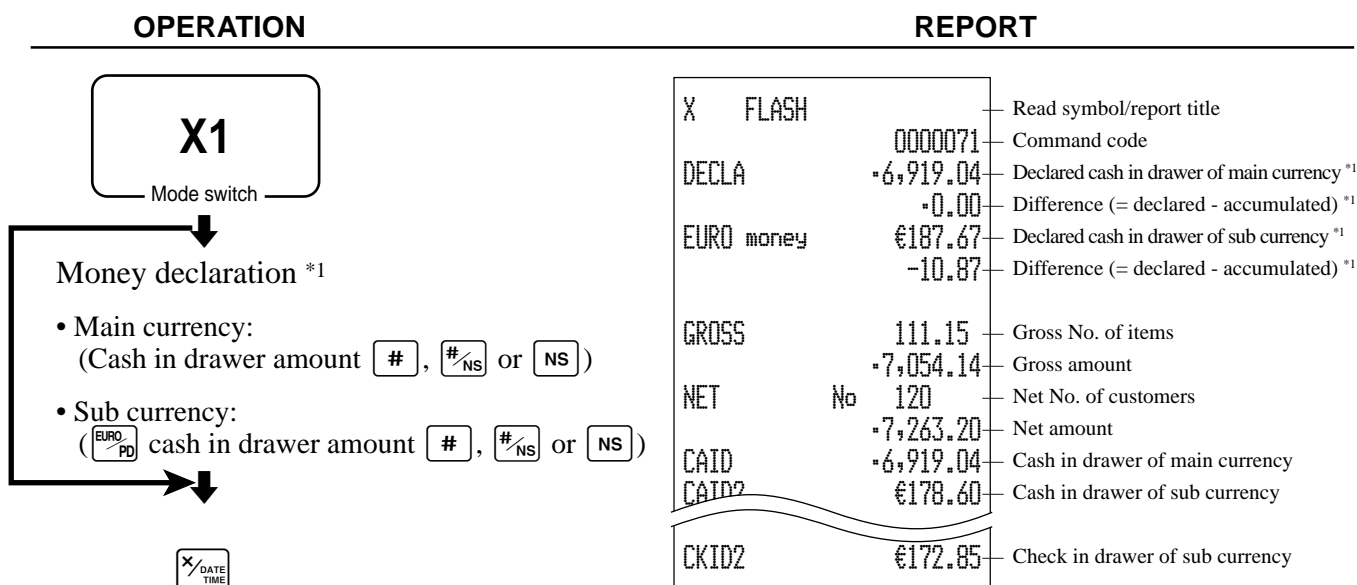
This report shows sales for specific departments or PLUs.



After you finish to select items, press SUB  
TOTAL to terminate.

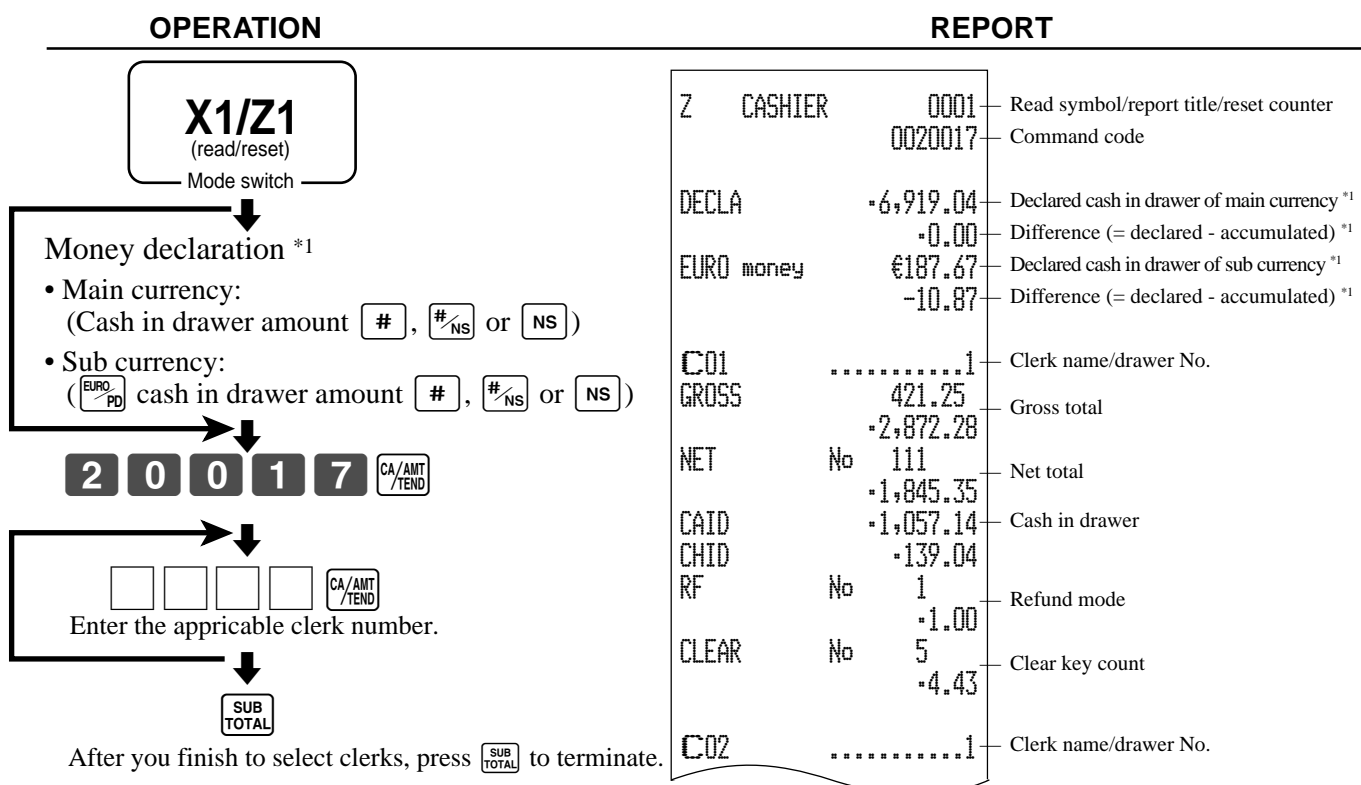
## To print the financial read report

This report shows gross sales, net sales, cash in drawer and check in drawer.



## To print the individual clerk read/reset report

This report shows individual clerk totals.



\*1 Money declaration:

Count how much cash is in the drawer and input this amount (up to 10 digits).

The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.

Note that if money declaration is required by programming (page 58), you cannot skip this procedure.

# Advanced Operations and Setups

## To print the daily sales read/reset report

This report shows sales except for PLUs.

OPERATION	REPORT																																																																																																			
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>X1/Z1</b>                      (read/reset)                      Mode switch                 </div>																																																																																																				
<p>Money declaration *1</p> <ul style="list-style-type: none"> <li>• Main currency: (Cash in drawer amount <input type="checkbox"/> #, <input type="checkbox"/> #/NS or <input type="checkbox"/> NS)</li> <li>• Sub currency: (<input type="checkbox"/> EURO <input type="checkbox"/> PD cash in drawer amount <input type="checkbox"/> #, <input type="checkbox"/> #/NS or <input type="checkbox"/> NS)</li> </ul>																																																																																																				
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	<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-top: 1px dashed black; border-bottom: 1px dashed black;">Z</td> <td style="border-top: 1px dashed black; border-bottom: 1px dashed black;">BATCH01</td> <td style="border-top: 1px dashed black; border-bottom: 1px dashed black;">Report title</td> </tr> <tr> <td>Z</td> <td>FIX 0001</td> <td>Fixed total report title/reset counter *4</td> </tr> <tr> <td></td> <td>0001011</td> <td>Report code</td> </tr> <tr> <td>DECLA</td> <td>-6,919.04</td> <td>Declared cash in drawer of main currency *1</td> </tr> <tr> <td></td> <td>-0.00</td> <td>Difference (= declared - accumulated) *1</td> </tr> <tr> <td>EURO money</td> <td>€187.67</td> <td>Declared cash in drawer of sub currency *1</td> </tr> <tr> <td></td> <td>-10.87</td> <td>Difference (= declared - accumulated) *1</td> </tr> <tr> <td>GROSS</td> <td>981.25</td> <td>Gross total *3</td> </tr> <tr> <td></td> <td>-6,574.40</td> <td></td> </tr> <tr> <td>NET</td> <td>No 111</td> <td>Net total *3</td> </tr> <tr> <td></td> <td>-7,057.14</td> <td></td> </tr> <tr> <td>CAID</td> <td>-6,919.04</td> <td>Cash in drawer *3</td> </tr> <tr> <td>CHID</td> <td>-139.04</td> <td>Charge in drawer *3</td> </tr> <tr> <td>CKID</td> <td>-859.85</td> <td>Check in drawer *3</td> </tr> <tr> <td>CRID(1)</td> <td>-709.85</td> <td>Credit in drawer *3</td> </tr> <tr> <td>RF</td> <td>No 3</td> <td>Refund mode *3</td> </tr> <tr> <td></td> <td>-10.22</td> <td></td> </tr> <tr> <td>CUST</td> <td>CT 111</td> <td>Customer number *3</td> </tr> <tr> <td>AVRG</td> <td>-63.57</td> <td>Average sales per customer *3</td> </tr> <tr> <td>DC</td> <td>-1.22</td> <td>Discount total *3</td> </tr> <tr> <td>REF</td> <td>-2.42</td> <td>Refund key *3</td> </tr> <tr> <td>CLEAR</td> <td>No 85</td> <td>Clear key count *3</td> </tr> <tr> <td>ROUND</td> <td>-0.00</td> <td>Rounding total *3</td> </tr> <tr> <td>CANCEL</td> <td>No 2</td> <td>Cancellation *3</td> </tr> <tr> <td></td> <td>-12.97</td> <td></td> </tr> <tr> <td>TA1</td> <td>-2,369.69</td> <td>Taxable 1 amount *3</td> </tr> <tr> <td>TX1</td> <td>-128.86</td> <td>Tax 1 amount *3</td> </tr> <tr> <td>TA2</td> <td>-2,172.96</td> <td>Taxable 2 amount *3</td> </tr> <tr> <td>TX2</td> <td>-217.33</td> <td>Tax 2 amount *3</td> </tr> <tr> <td>GT1</td> <td>-00000000125478.96</td> <td>Grand total 1 *3</td> </tr> <tr> <td>GT2</td> <td>-00000000346284.23</td> <td>Grand total 2 *3</td> </tr> <tr> <td>GT3</td> <td>-00000000123212.75</td> <td>Grand total 3 *3</td> </tr> <tr> <td style="border-bottom: 1px dashed black;">Z</td> <td style="border-bottom: 1px dashed black;">TRANS 0001</td> <td style="border-bottom: 1px dashed black;">Function key report title/reset counter *4</td> </tr> </table>	Z	BATCH01	Report title	Z	FIX 0001	Fixed total report title/reset counter *4		0001011	Report code	DECLA	-6,919.04	Declared cash in drawer of main currency *1		-0.00	Difference (= declared - accumulated) *1	EURO money	€187.67	Declared cash in drawer of sub currency *1		-10.87	Difference (= declared - accumulated) *1	GROSS	981.25	Gross total *3		-6,574.40		NET	No 111	Net total *3		-7,057.14		CAID	-6,919.04	Cash in drawer *3	CHID	-139.04	Charge in drawer *3	CKID	-859.85	Check in drawer *3	CRID(1)	-709.85	Credit in drawer *3	RF	No 3	Refund mode *3		-10.22		CUST	CT 111	Customer number *3	AVRG	-63.57	Average sales per customer *3	DC	-1.22	Discount total *3	REF	-2.42	Refund key *3	CLEAR	No 85	Clear key count *3	ROUND	-0.00	Rounding total *3	CANCEL	No 2	Cancellation *3		-12.97		TA1	-2,369.69	Taxable 1 amount *3	TX1	-128.86	Tax 1 amount *3	TA2	-2,172.96	Taxable 2 amount *3	TX2	-217.33	Tax 2 amount *3	GT1	-00000000125478.96	Grand total 1 *3	GT2	-00000000346284.23	Grand total 2 *3	GT3	-00000000123212.75	Grand total 3 *3	Z	TRANS 0001	Function key report title/reset counter *4
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Z	TRANS 0001	Function key report title/reset counter *4																																																																																																		

		0001012	Report code
CASH	No	362	Function key count/amount *2
		-1,638.04	
CH	No	56	
		-1,174.85	
RC	No	4	
		-810.00	
PD	No	5	
		-520.00	
		*5.00	
CORR	No	14	
		-39.55	
VLD	No	19	
RCT	No	3	
NS	No	5	
-----			
Z	DEPT	0001	Department report title/reset counter *4
		0001015	Report code
DEPT01		38	Department name/No. of items *2
8.13%		-257.53	Sales ratio/amount *2
DEPT02		183	
		-1,362.24	
-----			
TL		88.61	Total No. of items
		-1,916.10	Total amount
-----			
Z	CASHIER	0001	Clerk report title/reset counter *4
		0001017	Report code
C01		.....1	Clerk name/drawer No.
GROSS		421.25	Gross total
		-2,872.28	
NET	No	111	Net total
		-1,845.35	
CAID		-1,057.14	Cash in drawer
CHID		-139.04	
RF	No	1	Refund mode
		-1.00	
CLEAR	No	5	Clear key count
		-4.43	
C02		.....1	Clerk name/drawer No.

\*1 Money declaration:

Count how much cash is in the drawer and input this amount (up to 10 digits).

The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.

Note that if money declaration is required by programming (page 58), you cannot skip this procedure.

\*2 Zero totalled departments/functions (the amount and item numbers are both zero) are not printed.

\*3 These items can be skipped by programming.

\*4 The “\*” symbol is printed on the reset report, memory overflow occurred in the counter/totalizer.

# Advanced Operations and Setups

## To print the PLU read/reset report

This report shows sales for PLUs.

OPERATION	REPORT																																												
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p><b>X1/Z1</b> (read/reset)</p> <p>Mode switch</p> </div> <p style="text-align: center;">↓</p> <div style="display: flex; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 10px;">0</div> <div style="border: 1px solid black; padding: 2px 10px;">1</div> <div style="border: 1px solid black; padding: 2px 10px;">4</div> <div style="border: 1px solid black; padding: 2px 10px; font-size: 8px;">CA/AMT /TEND</div> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">X</td> <td style="width: 40%;">PLU</td> <td style="width: 10%;"></td> <td style="width: 40%;">Read symbol/report title</td> </tr> <tr> <td></td> <td></td> <td>0000014</td> <td>Report code</td> </tr> <tr> <td>PLU0001</td> <td></td> <td>17</td> <td>PLU name/No. of items</td> </tr> <tr> <td>0.53%</td> <td></td> <td>-17.00</td> <td>Sales ratio/PLU amount</td> </tr> <tr> <td>#0001</td> <td></td> <td></td> <td>PLU code</td> </tr> <tr> <td>PLU0100</td> <td></td> <td>42</td> <td></td> </tr> <tr> <td>4.03%</td> <td></td> <td>-69.00</td> <td></td> </tr> <tr> <td>#0100</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4" style="border-top: 1px dashed black;"></td> </tr> <tr> <td>TL</td> <td></td> <td>188.61</td> <td>Total No. of items</td> </tr> <tr> <td></td> <td></td> <td>-516.10</td> <td>Total amount</td> </tr> </table>	X	PLU		Read symbol/report title			0000014	Report code	PLU0001		17	PLU name/No. of items	0.53%		-17.00	Sales ratio/PLU amount	#0001			PLU code	PLU0100		42		4.03%		-69.00		#0100								TL		188.61	Total No. of items			-516.10	Total amount
X	PLU		Read symbol/report title																																										
		0000014	Report code																																										
PLU0001		17	PLU name/No. of items																																										
0.53%		-17.00	Sales ratio/PLU amount																																										
#0001			PLU code																																										
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#0100																																													
TL		188.61	Total No. of items																																										
		-516.10	Total amount																																										

## To print the hourly sales read/reset report

This report shows hourly breakdowns of sales.

OPERATION	REPORT																																																																								
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p><b>X1/Z1</b> (read/reset)</p> <p>Mode switch</p> </div> <p style="text-align: center;">↓</p> <div style="display: flex; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 10px;">0</div> <div style="border: 1px solid black; padding: 2px 10px;">1</div> <div style="border: 1px solid black; padding: 2px 10px;">9</div> <div style="border: 1px solid black; padding: 2px 10px; font-size: 8px;">CA/AMT /TEND</div> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">X</td> <td style="width: 40%;">HOURLY</td> <td style="width: 10%;"></td> <td style="width: 40%;">Read symbol/report title</td> </tr> <tr> <td></td> <td></td> <td>0000019</td> <td>Report code</td> </tr> <tr> <td>00:00-&gt;01:00</td> <td></td> <td></td> <td>Time range</td> </tr> <tr> <td></td> <td>CT</td> <td>1</td> <td>No. of customers</td> </tr> <tr> <td>GROSS</td> <td></td> <td>-1.10</td> <td>Gross sales amount</td> </tr> <tr> <td>NET</td> <td>No</td> <td>1</td> <td>No. of receipt</td> </tr> <tr> <td>1.00%</td> <td></td> <td>-1.20</td> <td>Sales ratio/net sales amount</td> </tr> <tr> <td colspan="4" style="border-top: 1px dashed black;"></td> </tr> <tr> <td>23:00-&gt;00:00</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>CT</td> <td>1</td> <td></td> </tr> <tr> <td>GROSS</td> <td></td> <td>-3.45</td> <td></td> </tr> <tr> <td>NET</td> <td>No</td> <td>1</td> <td></td> </tr> <tr> <td>3.90%</td> <td></td> <td>-3.59</td> <td></td> </tr> <tr> <td colspan="4" style="border-top: 1px dashed black;"></td> </tr> <tr> <td>TL</td> <td>CT</td> <td>280</td> <td>Total No. of customers</td> </tr> <tr> <td>GROSS</td> <td></td> <td>-1,937.61</td> <td>Gross total amount</td> </tr> <tr> <td>NET</td> <td>No</td> <td>25</td> <td>Total No. of receipt</td> </tr> <tr> <td></td> <td></td> <td>-2,096.80</td> <td>Net total amount</td> </tr> </table>	X	HOURLY		Read symbol/report title			0000019	Report code	00:00->01:00			Time range		CT	1	No. of customers	GROSS		-1.10	Gross sales amount	NET	No	1	No. of receipt	1.00%		-1.20	Sales ratio/net sales amount					23:00->00:00					CT	1		GROSS		-3.45		NET	No	1		3.90%		-3.59						TL	CT	280	Total No. of customers	GROSS		-1,937.61	Gross total amount	NET	No	25	Total No. of receipt			-2,096.80	Net total amount
X	HOURLY		Read symbol/report title																																																																						
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## To print the monthly sales read/reset report

This report shows monthly breakdowns of sales.

OPERATION	REPORT																																																																																				
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>X1/Z1</b>                      (read/reset)                      Mode switch                 </div> <div style="text-align: center; margin: 5px 0;">↓</div> <div style="display: flex; justify-content: center; gap: 10px; align-items: center;"> <div style="border: 1px solid black; padding: 2px 10px; font-weight: bold;">0</div> <div style="border: 1px solid black; padding: 2px 10px; font-weight: bold;">2</div> <div style="border: 1px solid black; padding: 2px 10px; font-weight: bold;">0</div> <div style="border: 1px solid black; padding: 2px 5px; font-size: 8px;">CA/AMT TEND</div> </div>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">X</td> <td style="width: 40%;">MONTHLY</td> <td style="width: 10%;"></td> <td style="width: 30%;">Read symbol/report title</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">0000020</td> <td>Report code</td> </tr> <tr> <td></td> <td><b>1.....</b></td> <td></td> <td>Date of a month</td> </tr> <tr> <td>GROSS</td> <td></td> <td style="text-align: right;">1236.76</td> <td>Gross symbol/No. of items</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-12,202.57</td> <td>Gross sales amount</td> </tr> <tr> <td>NET</td> <td>No</td> <td style="text-align: right;">214</td> <td>Net symbol/No. of customers</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-12,202.57</td> <td>Net sales amount</td> </tr> <tr> <td colspan="4" style="border-top: 1px solid black; border-bottom: 1px solid black;"></td> </tr> <tr> <td></td> <td><b>31.....</b></td> <td></td> <td></td> </tr> <tr> <td>GROSS</td> <td></td> <td style="text-align: right;">2132</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-14,187.57</td> <td></td> </tr> <tr> <td>NET</td> <td>No</td> <td style="text-align: right;">205</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-13,398.76</td> <td></td> </tr> <tr> <td colspan="4" style="border-top: 1px dashed black;"></td> </tr> <tr> <td>TL</td> <td></td> <td></td> <td>Total symbol</td> </tr> <tr> <td>GROSS</td> <td></td> <td style="text-align: right;">9746.63</td> <td>Gross symbol/No. of items</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-161,022.49</td> <td>Gross sales amount</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-16.52</td> <td>Average daily gross sales</td> </tr> <tr> <td>NET</td> <td>No</td> <td style="text-align: right;">2351</td> <td>Net symbol/No. of customers</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-161,022.49</td> <td>Net sales amount</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-68.49</td> <td>Average daily net sales</td> </tr> </table>	X	MONTHLY		Read symbol/report title			0000020	Report code		<b>1.....</b>		Date of a month	GROSS		1236.76	Gross symbol/No. of items			-12,202.57	Gross sales amount	NET	No	214	Net symbol/No. of customers			-12,202.57	Net sales amount						<b>31.....</b>			GROSS		2132				-14,187.57		NET	No	205				-13,398.76						TL			Total symbol	GROSS		9746.63	Gross symbol/No. of items			-161,022.49	Gross sales amount			-16.52	Average daily gross sales	NET	No	2351	Net symbol/No. of customers			-161,022.49	Net sales amount			-68.49	Average daily net sales
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## To print the group read/reset report

This report shows PLU/department group totals.

OPERATION	REPORT																																																								
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>X1/Z1</b>                      (read/reset)                      Mode switch                 </div> <div style="text-align: center; margin: 5px 0;">↓</div> <div style="display: flex; justify-content: center; gap: 10px; align-items: center;"> <div style="border: 1px solid black; padding: 2px 10px; font-weight: bold;">0</div> <div style="border: 1px solid black; padding: 2px 10px; font-weight: bold;">1</div> <div style="border: 1px solid black; padding: 2px 10px; font-weight: bold;">6</div> <div style="border: 1px solid black; padding: 2px 5px; font-size: 8px;">CA/AMT TEND</div> </div>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">X</td> <td style="width: 40%;">GROUP</td> <td style="width: 10%;"></td> <td style="width: 30%;">Read symbol/report title</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">0000016</td> <td>Report code</td> </tr> <tr> <td>GROUP01</td> <td></td> <td style="text-align: right;">203.25</td> <td>Group No./No. of items</td> </tr> <tr> <td>33.87%</td> <td></td> <td style="text-align: right;">-1,108.54</td> <td>Sales ratio/group amount</td> </tr> <tr> <td>GROUP02</td> <td></td> <td style="text-align: right;">183</td> <td></td> </tr> <tr> <td>40.58%</td> <td></td> <td style="text-align: right;">-1,327.80</td> <td></td> </tr> <tr> <td>GROUP03</td> <td></td> <td style="text-align: right;">12</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-13.25</td> <td></td> </tr> <tr> <td colspan="4" style="border-top: 1px solid black; border-bottom: 1px solid black;"></td> </tr> <tr> <td>GROUP99</td> <td></td> <td style="text-align: right;">15</td> <td></td> </tr> <tr> <td>0.54%</td> <td></td> <td style="text-align: right;">-17.80</td> <td></td> </tr> <tr> <td colspan="4" style="border-top: 1px dashed black;"></td> </tr> <tr> <td>TL</td> <td></td> <td style="text-align: right;">862</td> <td>Group total No. of items</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-3,272.00</td> <td>Group total amount</td> </tr> </table>	X	GROUP		Read symbol/report title			0000016	Report code	GROUP01		203.25	Group No./No. of items	33.87%		-1,108.54	Sales ratio/group amount	GROUP02		183		40.58%		-1,327.80		GROUP03		12				-13.25						GROUP99		15		0.54%		-17.80						TL		862	Group total No. of items			-3,272.00	Group total amount
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# Advanced Operations and Setups

- Periodic sales read report (“X2” mode)**

You can print read reports at any time during the business day without affecting the data stored in the cash register's memory.

- Periodic sales reset report (“Z2” mode)**

You should print reset reports at the end of the business day.

## To print the periodic 1/2 sales read/reset reports

These reports show sales breakdowns of sales by any two kinds of period you want.

OPERATION	REPORT
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>X2/Z2</b>                      (read/reset)                      Mode switch                 </div> <div style="text-align: center;">↓</div> <div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px; font-weight: bold; font-size: 1.2em;">1</div> <div style="border: 1px solid black; padding: 2px 5px; font-size: 0.8em;">CA/AMT /TEND</div> </div>	<pre> ----- ZZ1  BATCH02 ----- ZZ1  FIX          0001               0001111 GROSS          981.25               -6,574.40 NET            No  111               -7,057.14 CAID           -6,919.04 CHID           -139.04 CKID           -859.85 CRID(1)       -709.85 ----- RF            No   3               -10.22 CUST          CT  111 AVRG          -63.57 DC            -1.22 REF           -2.42 CLEAR        No   85 ROUND        -0.00 CANCEL       No   2               -12.97 ----- TA1           -2,369.69 TX1           -128.86 TA2           -2,172.96 TX2           -217.33 ----- ZZ1  TRANS          0001               0001112 CASH         No   362               -1,638.04 CH           No    56               -1,174.85 RC           No    4               -810.00 PD           No    5                     </pre> <p>Report title</p> <p>Fixed total report title/reset counter</p> <p>Report code</p> <p>Gross total *2</p> <p>Net total *2</p> <p>Cash in drawer *2</p> <p>Charge in drawer *2</p> <p>Check in drawer *2</p> <p>Credit in drawer *2</p> <p>Refund mode *2</p> <p>Customer number *2</p> <p>Average sales per customer *2</p> <p>Discount total *2</p> <p>Refund key *2</p> <p>Clear key count *2</p> <p>Rounding total *2</p> <p>Cancellation *2</p> <p>Taxable 1 amount *2</p> <p>Tax 1 amount *2</p> <p>Taxable 2 amount *2</p> <p>Tax 2 amount *2</p> <p>Function key report title/reset counter</p> <p>Report code</p> <p>Function key count/amount *1</p>



			-5.00	
CORR	No	14		
			-39.55	
VLD	No	19		
RCT	No	3		
NS	No	5		
-----				
ZZ1 DEPT		0001		Department report title/reset counter
		0001115		Report code
DEPT01		38		Department Name/No. of items *1
8.13%			-257.53	Sales ratio/amount
DEPT02		183		
			-1,362.24	
-----				
TL		88.61		Total No. of items
			-1,916.10	Total amount
-----				
ZZ1 CASHIER		0001		Clerk report title/reset counter
		0001117		Report code
C01		.....1		Clerk name/drawer No.
GROSS			421.25	Gross total
			-2,872.28	
NET	No	111		Net total
			-1,845.35	
CAID			-1,057.14	Cash in drawer
			-139.04	
-----				
RF	No	1		Refund mode
			-1.00	
CLEAR	No	5		Clear key count
			-4.43	
C02		.....1		Clerk name/drawer No.
-----				

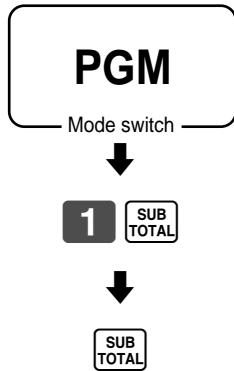
\*1 Zero totalled departments/functions (the amount and item numbers are both zero) are not printed.

\*2 These items can be skipped by programming.

## Reading the cash register's program

To print unit price/rate program (except PLU)

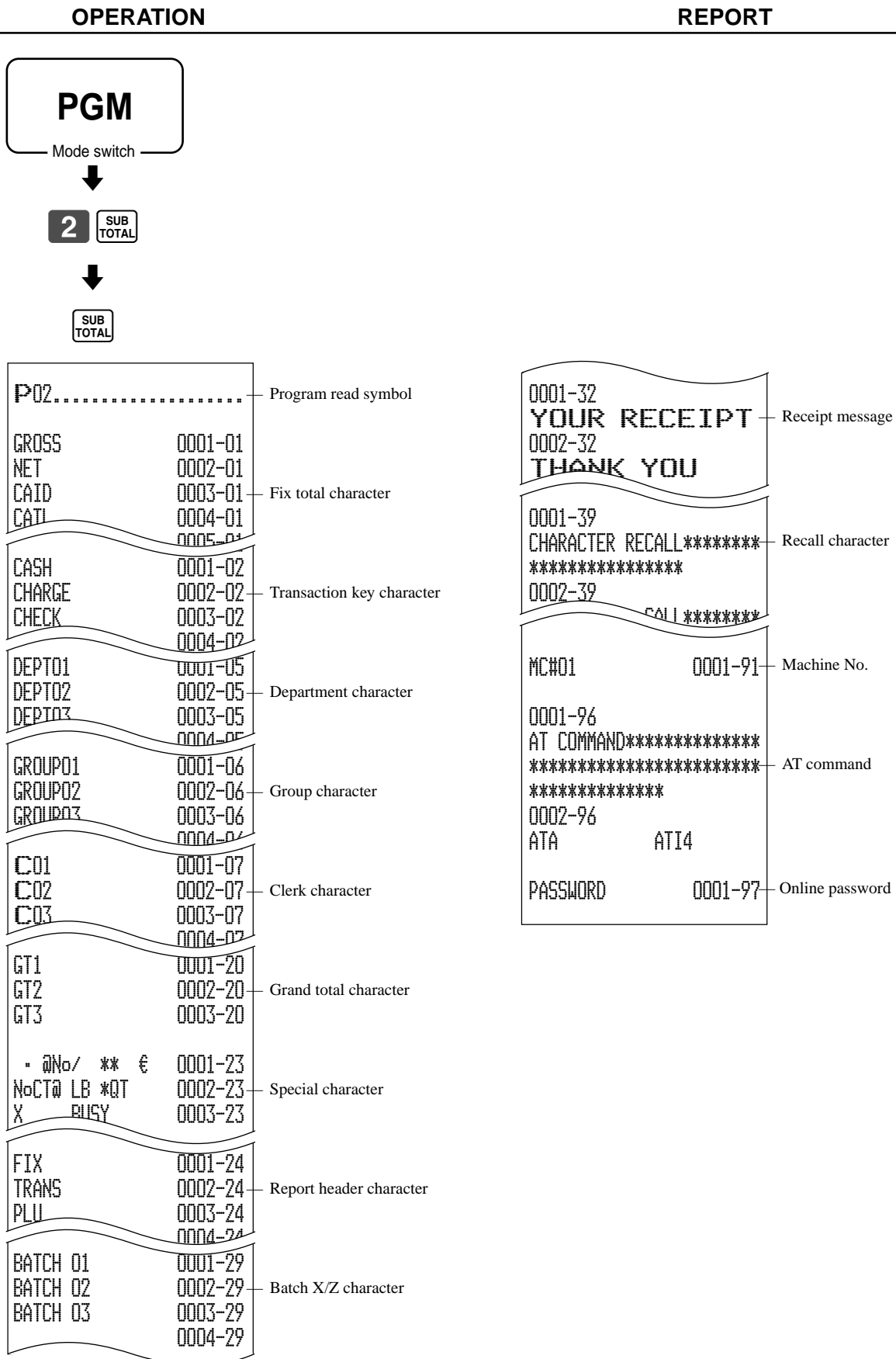
### OPERATION



### REPORT

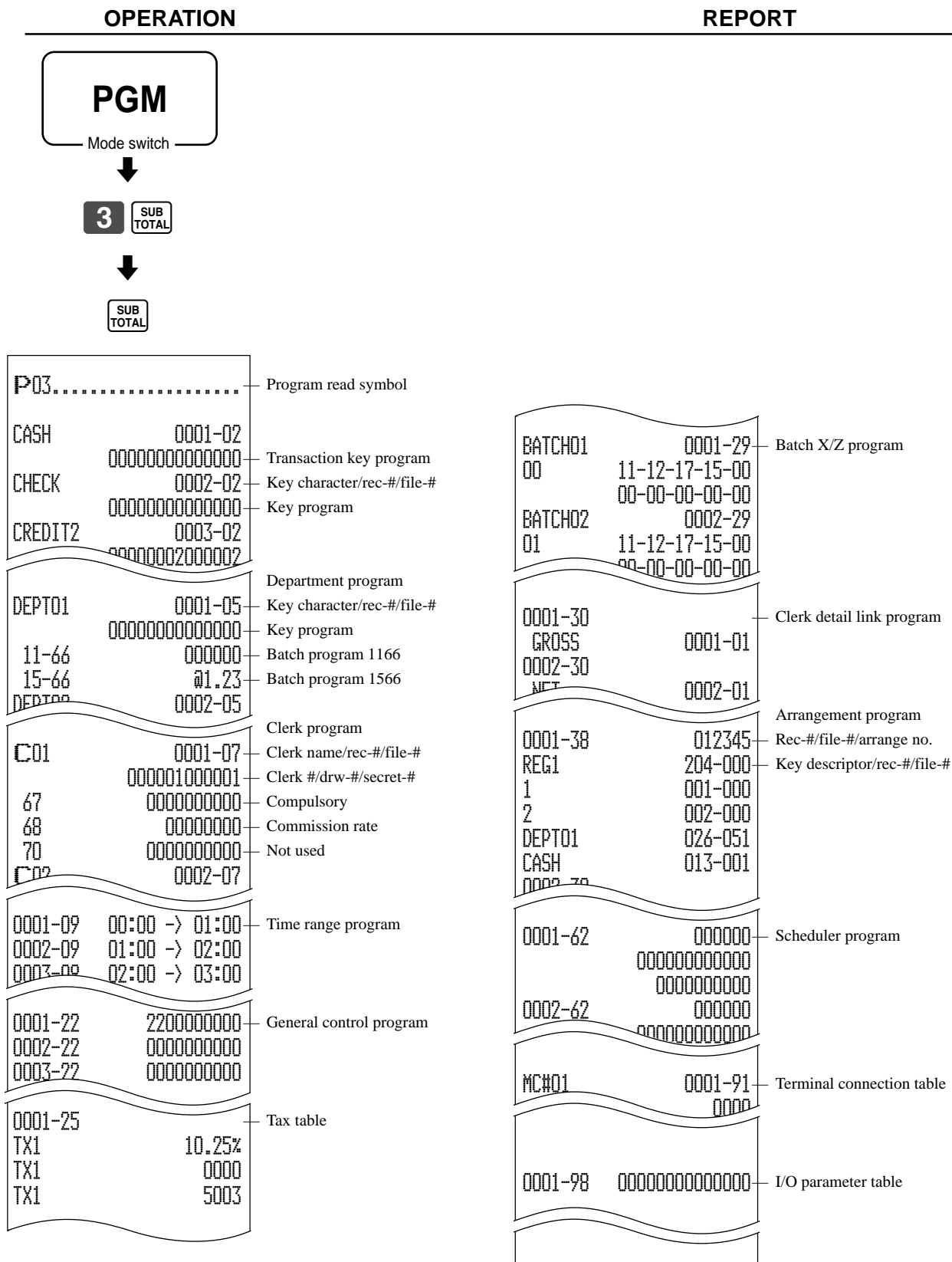
P01.....		Program read symbol
CASH	@100.00	Transaction key unit price or rate
CHECK	@1.00	
-	@1.00	
%-	10%	
-----		
DEPT01	0001-05	Department descriptor/rec-#/file-#
1.2	@1.00	Unit quantity/unit price
DEPT02	0002-05	
1	@2.00	
-----		

## To print key descriptor, name, message program (except PLU)

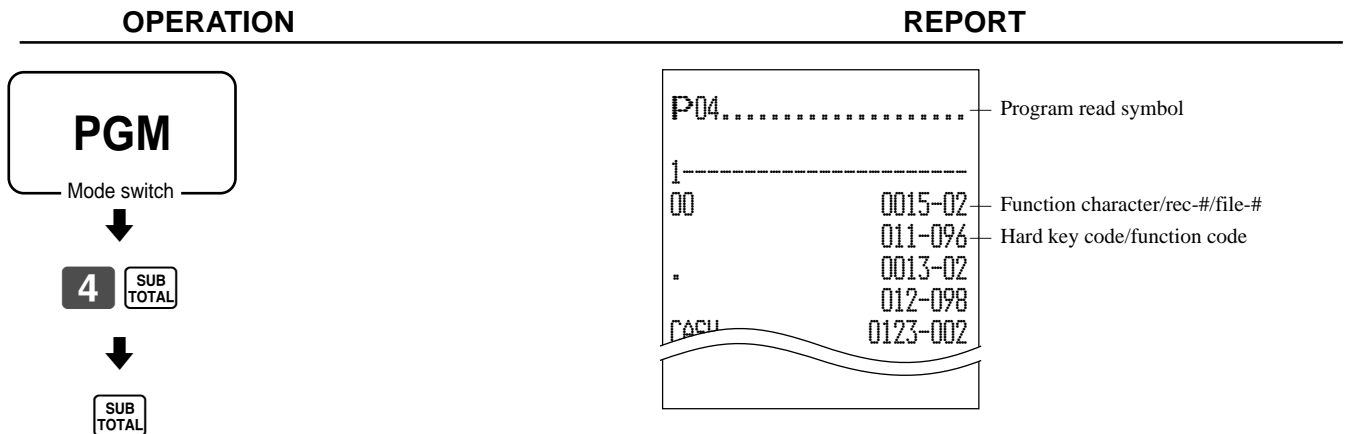


# Advanced Operations and Setups

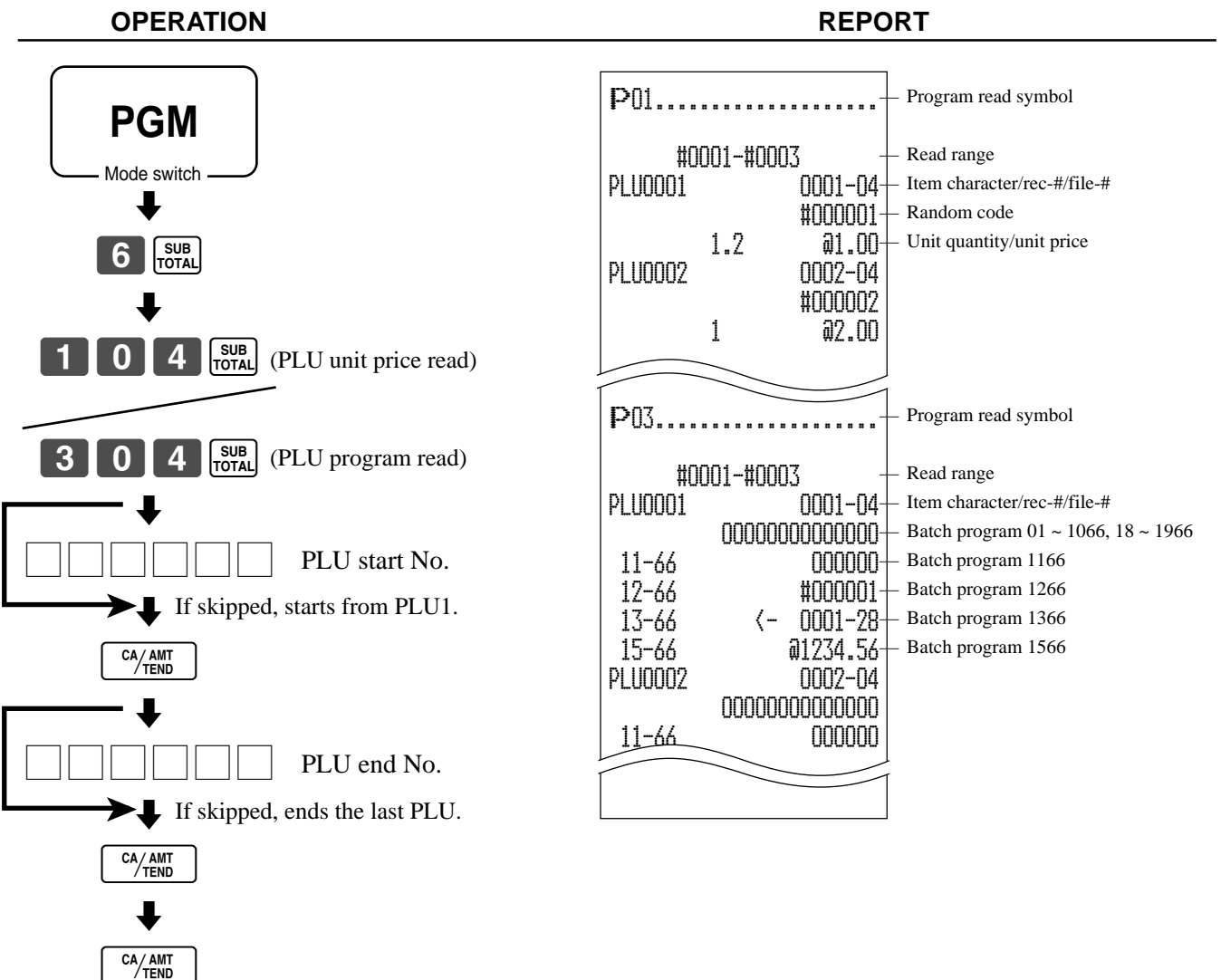
To print the general control program, compulsory and key program



## To print the keyboard layout program



## To print the PLU program



# Troubleshooting

This section describes what to do when you have problems with operation.

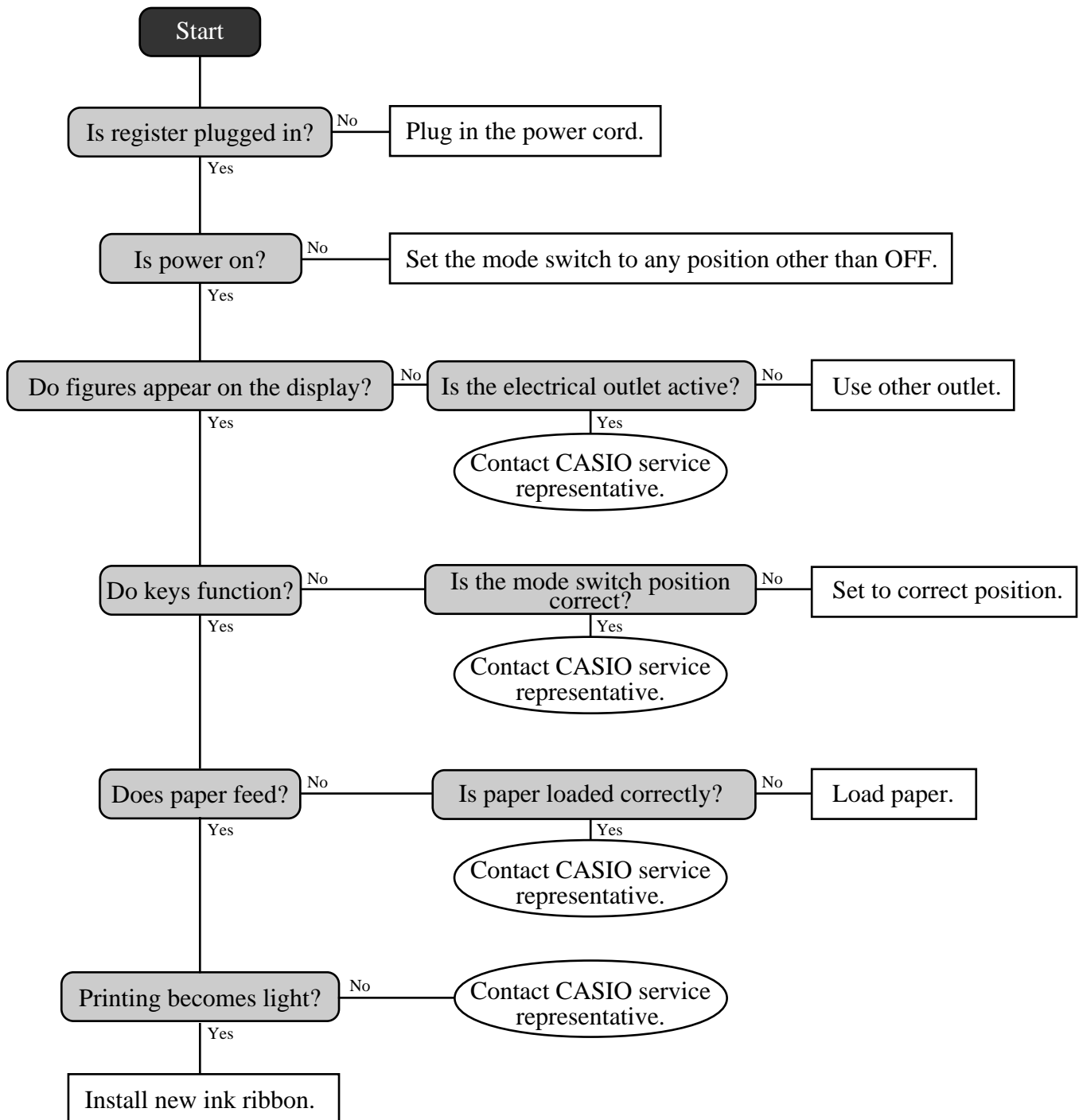
## When an error occurs

Errors are indicated by an error codes. When this happens, you can usually find out what the problem is as shown below.

Error code	Meaning	Action
E001	Mode switch position changed before finalization.	Return the mode switch to its original setting and finalize the operation.
E003	Clerk button pressed before finalization of a registration being performed under another clerk button. The signed on clerk differs from the clerk performed the clerk interrupt registration.	Press the original clerk button and finalize the transaction before pressing another clerk button. Assign the proper clerk number.
E004	Initialization or unit lock clear operation in progress.	Complete operation.
E008	Registration without entering a clerk number.	Enter a clerk number.
E009	Operation without entering the password.	Enter password.
E010	Registration is made while the cash drawer is opened. The drawer is left open longer than the program time (drawer open alarm).	Close the drawer.
E011	Attempt to register while the cash drawer is open.	Shut the cash drawer.
E015	Printer error	
E016	Two consecutive transactions attempted in the refund mode.	Switch to another mode and then back to the RF mode for the next transaction.
E018	Attempt made to register an item without inputting a table number.	Input a table number.
E019	Finalize operation attempted without entering the number of customer.	Enter the number of customer.
E021	No department linked PLU is registered.	Correct the program.
E026	No condiment/preparation PLU is registered.	Register condiment/preparation PLU.
E029	Item registration is prohibited, while partial tender.	Finalize the transaction.
E030	Attempt made to finalize the transaction without registering rate-tax.	Register <RATE TAX>.
E031	Finalization of a transaction attempted without confirming the subtotal.	Press <SUBTOTAL>.
E033	Finalize operation attempted without entering amount tender.	Enter the amount tendered.
E035	Change amount exceeds preset limit.	Input amount tendered again.
E036	Contents of the drawer exceed programmed limit.	Perform pick up operation.
E037	High amount lock out/low digit lock out error	Enter correct amount.
E038	Read/reset operation without declaring cash in drawer. This error appears only when this function is activated.	Perform money declaration.
E040	Attempt made to finalize a transaction without issuing a guest receipt.	Issue a guest receipt.
E041	Validation is not performed.	Perform validation operation.
E046	Registration buffer full.	Finalize the transaction.
E049	Index memory full.	Finalize and close the check number currently used.
E050	Detail memory full.	Finalize and close the check number currently used.
E059	Register items without specifying <EAT-IN> or <TAKEOUT>.	Press <EAT-IN> or <TAKEOUT>.
E075	Attempt to finalize a transaction when balance is less than or equal to zero.	Register item(s) until the balance becomes positive amount.
E139	Attempt to register <->, <CPN>, or <VOID> when the balance becomes negative.	Enter proper minus/coupon amount.
E146	Arrangement file is full.	Set the arrangement properly.
E153	No random PLU code is set.	Set random PLU code.

## When the register does not operate at all

Perform the following check whenever the cash register enter an error condition as soon as you switch it on. The results of this check are required by service personnel, so be sure to perform this check before you contact a CASIO representative for servicing.



## Clearing a machine lock 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 ten Fs, then release **RECEIPT FEED**.
- 5 Press **SUB TOTAL**. The display shows ten Fs and issue a receipt.

### Important!

If the register does not show ten Fs, never press **SUB TOTAL** and call service representative.

## 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 on-going transaction as well as all sales data in memory are protected by the memory backup 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. After power recovery, the register continues to issue report.
- Power failure during printing of a receipt and the 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.

The memory protection battery is constantly charging and discharging as you switch the cash register on and off during normal operations. This causes the capacity of the battery to decrease after approximately five years of use.

### Important !

- Remember ...a weak battery has the potential of losing valuable transaction data.
- A label on the back of the cash register shows the normal service period of the battery installed in your cash register.
- Have the battery replaced by your dealer within the period noted on this label.



## To replace the ink ribbon



1

Open the printer cover.



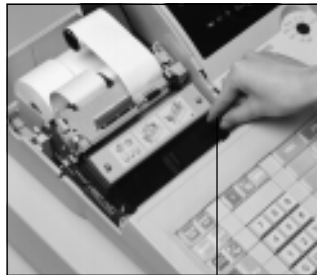
4

Load a new ink ribbon cassette into the unit.



2

Remove the printer sub cover.



5

Turn the knob on the right side of the cassette to take up any slack in the ribbon.

Knob



3

Pull up the knob of the ribbon cassette.

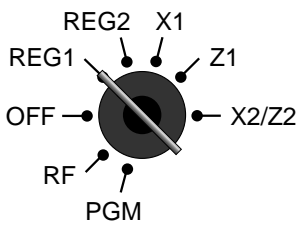
6

Replace the printer cover and printer sub cover.

### Important!

Use only the ERC-32(P) ribbon (purple). Other types of ink ribbons can damage the printer. Never try to extend the life of an ink ribbon by replenishing the ink. Once an ink ribbon is in place, press <#/NS> or <NS> to test for correct operation.

## To replace journal paper



1

Set the mode switch to the REG1 position and remove the printer cover.



2

Press **JOURNAL FEED** to feed about 20 cm of paper.



6

Cut the journal paper as shown in the photograph.



3

Cut the journal paper at the point where nothing is printed.



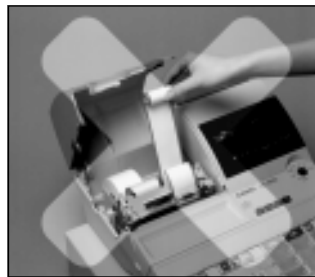
7

Press **JOURNAL FEED** to feed the remaining paper from the printer.



4

Remove the journal take-up reel from its holder.



8

Do not pull the paper out of the printer by hand. It can damage the printer.



5

Slide the printed journal from the take-up reel.



9

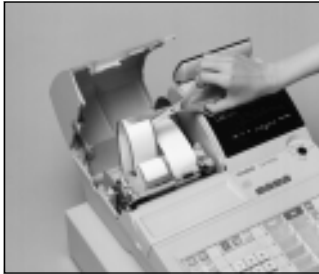
Remove the old paper roll from the cash register.

10

Load new paper as described on page 10 of this manual.

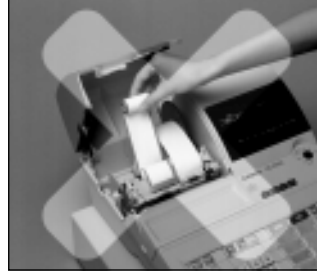
## To replace receipt paper

Follow step ① under “To replace journal paper” on the previous page.



②

Cut the receipt paper as shown in the photograph.



④

Do not pull the paper out of the printer by hand. It can damage the printer.



③

Press **RECEIPT FEED** to feed the remaining paper from the printer.



⑤

Remove the old paper roll from the cash register.

⑥

Load new paper as described on page 11 of this manual.

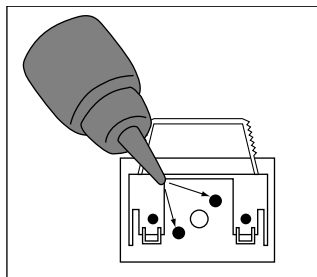
## To replenish the stamp ink

Follow step ① under “To replace journal paper” on the previous page.



②

Remove the stamp pad from its holder by lifting the knob.



③

Squirt one or two drops of ink into the holes on the back of the stamp pad.

④

Replace the stamp pad on its holder.

## Options

Wetproof cover: WT-77

Consult with your CASIO dealer for details.

# Specifications

## Input method

Entry: 10-key system, buffer memory 8 keys (2-key roll over)  
 Department: Full key system

## Display

Amount 10 digits (zero suppression); department No., PLU No., No. of repeats, total, change, receipt on/off, transaction indicator

## Printer

Receipt: Dot matrix alpha-numeric system 24 digits, receipt on/off switch (key)  
 Store name or slogan can be printed.  
 Logo stamp: 20 (H) × 30 (W) mm  
 Journal: Dot matrix alpha-numeric system 24 digits  
 Automatic take up roll winding  
 Journal paper near end sensor (option)  
 Validation: 55 digits, one line, for 135 mm (minimum) wide slip  
 Paper roll: 45 (W) × 83 (D) mm  
 Paper feed: Separate for receipt and journal  
 Print speed: 3.0 l/s

## Listing capacity

Amount: 99999999  
 Quantity: 9999.999  
 Tendered amount: 9999999999  
 Percent: 99.99  
 Tax rate: 9999.9999  
 Numbers: 9999999999999999

## Chronological data

Date print: Automatic date printout on receipt or journal, automatic calendar  
 Time print: Automatic time printout on receipt or journal, 24-hour system

## Alarm

Key catch tone, error alarm, sentinel alarm

## Memory protection battery

48-hour full charge protects memories for approximately 90 days.  
 Battery should be replaced every five years.

## Power supply/power consumption

See the rating plate.

## Operation temperature

0°C ~ 40°C

## Humidity

10 ~ 90%

## Dimensions and weight

454mm (H) × 345mm (W) × 218mm (D) /6.5kg  
 ...without drawer

Totalizers	Contents					Periodic totalizers
	No. of totalizers	Amount (10 digits)	No. of items (6 integer/3 decimal)	Count (4 digits)	No. of customers (6 digits)	
Department	Up to 15	✓	✓			✓
PLU	Up to 100	✓	✓			
Clerk	10	✓	✓	✓		✓
Hourly sales	24	✓			✓	
Monthly sales	31	✓	✓		✓	
Transaction	Variable with program	Variable with program				✓
Non ressettable grand total	3	✓ (16 digits)				
Reset counter	12			✓		
Consecutive No.	1			✓ (6 digits)		

\* Specifications and design are subject to change without notice.

- A**
- add-in rate tax 14
  - add-on rate tax 14
  - addition (+) 48, 68
  - alphabet key 78
  - arrangement 50, 69
- B**
- backspace key 78
  - bill copy 81
  - bottom message 24, 71
- C**
- cancel 22, 42, 44
  - cash/amount tendered 47, 65
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