

# 120CR

# 160CR

## Electronic Cash Register



### User's Manual

**START-UP is QUICK and EASY!**

**Simple to use!**

4 departments

Automatic Tax Calculations

Calculator function

# CASIO®

EU

DI

UK

# **Introduction**

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

Part-1 of this User's Manual can help you make a quick start.

Once you have mastered the QUICK START operations, you will undoubtedly want to expand your use of this machine by studying other sections of Part-2.

## **Original Carton/Package**

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

## **Location**

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

## **Power Supply**

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

## **Cleaning**

Clean the cash register exterior with a soft cloth which has been moistened with a solution of a mild neutral detergent and water, and wrung out.

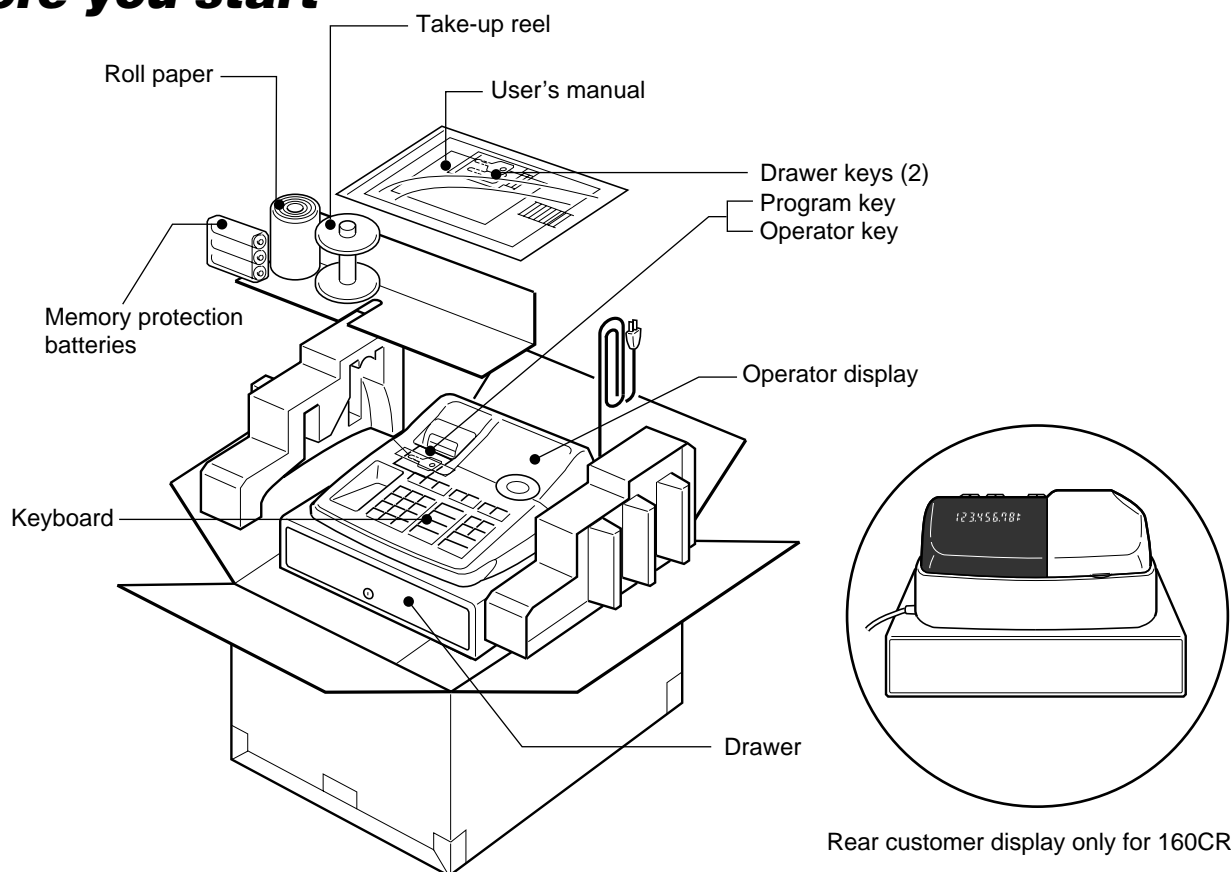
Be sure that the cloth is thoroughly wrung out to avoid damage to the printer.

Never use paint thinner, benzene, or other volatile solvents.

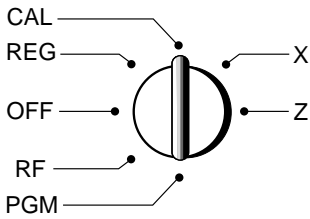
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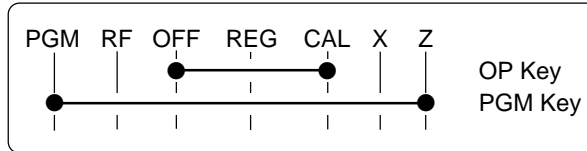
## Before you start



## Getting to know your cash register



The position of the Mode Switch controls the type of operations you can perform on the cash register. The PROGRAM Key (marked PGM) that comes with the cash register can be used to select any Mode Switch setting, while the OPERATOR Key (marked OP) can be used to select OFF, REG or CAL only.



**Note:**

An error is generated (E01 displayed) whenever the position of the Mode Switch is changed during registration.

**OFF**

In this position, the power of the cash register is off.

**REG (Register)**

This is the position used for registration of normal transactions.

**RF (Refund)**

This is the position used for registration of refunds.

**CAL (Calculator)**

This is the position used for calculator mode.

**PGM (Programming)**

This is the position used to program the cash register to suit the needs of your store.

**X (Read)**

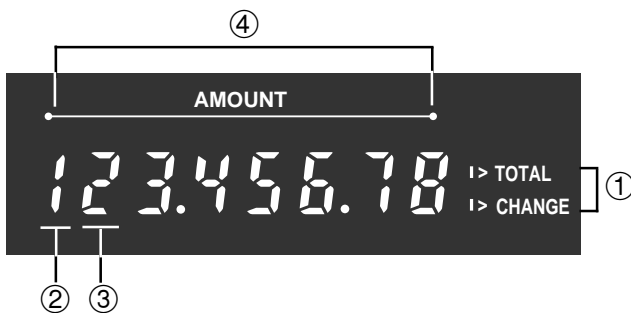
This is the position used to produce reports of daily sales totals without clearing the totals.

**Z (Reset)**

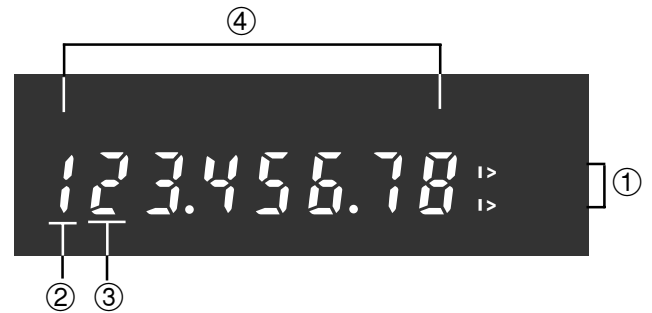
This is the position used to produce reports of daily sales totals. This setting clears the totals.

### Displays

Operator Display



Rear Customer Display (only for 160CR)



① **Total/Change Display**

The total (upper segment) or change (lower segment) sign appears when a subtotal, total or change is obtained.

② **Department Number Display**

Anytime you press a department key to register a unit price, the corresponding department number appears here.

③ **Number of Repeat Display**

Anytime you perform "repeat registration" (page 9), the number of repeats appears here.

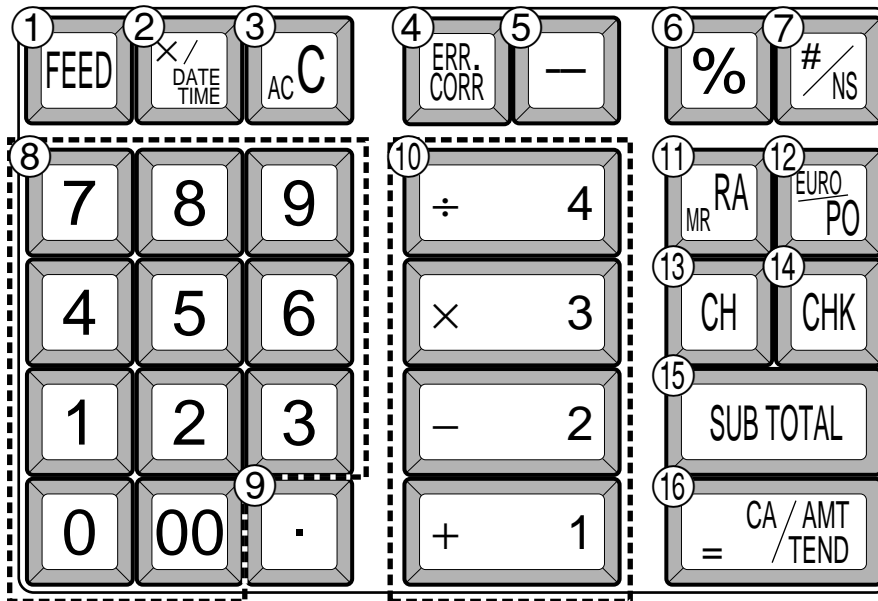
Note that only one digit is displayed for the number of repeats.

④ **Numeric Display**

Entered values (unit prices or quantities) and calculated values (subtotals, totals or change amount due) are displayed here. The capacity of the display is 8 digits.

This part of the display can be used to show the current time or date between registrations (page 26).

## Keyboard



Certain keys have two functions; one for register mode and one for calculator mode.

In this manual, we will refer to specific keys as noted below to make the operations as easy to understand as possible:

### Register Mode

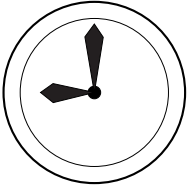
- ① Feed Key
- ② Multiplication/Date Time Key
- ③ Clear Key
- ④ Error Correction Key
- ⑤ Minus key
- ⑥ Percent Key
- ⑦ Reference Number/No Sale Key
- ⑧ Numeric Keys and 2-zero key
- ⑨ Decimal key
- ⑩ Department Keys
- ⑪ Received On Account Key
- ⑫ Euro/Paid Out Key
- ⑬ Charge Key

- ⑭ Check Key
- ⑮ Subtotal Key
- ⑯ Cash Amount Tendered Key

### Calculator Mode

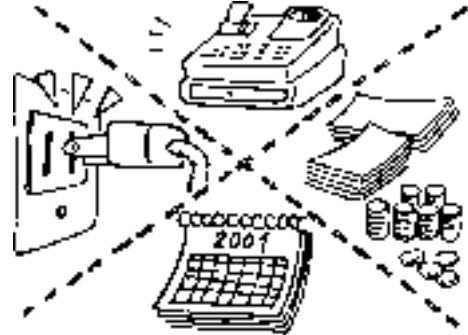
- ③ AC Key
- ⑥ Percent Key
- ⑧ Numeric Keys and 2-zero key
- ⑨ Decimal key
- ⑩ Arithmetic Operation Keys
- ⑪ Memory Recall key
- ⑯ Equal Key

## Daily Job Flow



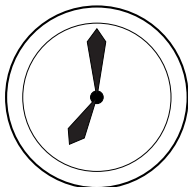
### Before Opening The Store

1. Plugged in?
2. Enough Roll Paper?
3. Date and Time is correct?
4. Enough small change in the drawer?



### While The Store Is Open

1. Registrations.
2. Issuing latest daily sales total if needed.  
(Generating report by Mode Switch to X position.)



### After Closing The Store

1. Issuing Daily Sales Total.  
(Resetting report by Mode Switch to Z position.)
2. Picking up money in the drawer.
3. Turn the Mode Switch to OFF.





# QUICK START OPERATION

Part-1

## 1. Initialization and Loading Memory Protection Battery

### Important

You must initialize the Cash register and install the memory protection batteries before you can program the cash register.

### To initialize the cash register

1. Set the Mode Switch to OFF.
2. Plug the power cord of the cash register into an AC outlet.
3. Load the memory protection batteries.
4. Set the Mode Switch to REG.

### To load the memory protection batteries

1. Remove the printer cover.
2. Press down on the oval just behind the printer paper inlet, and slide the battery compartment cover toward the back of the cash register.
3. Load 3 new UM-3, R6P (SUM-3) or LR6 (AM-3) type batteries into the compartment. Be sure that the plus (+) and minus (-) ends of each battery are facing in the directions indicated by the illustrations inside the battery compartment (Figure 1).
4. Slide the memory protection battery compartment cover back into place.
5. Replace the printer paper and printer cover.



(Figure 1)

**REPLACE MEMORY PROTECTION BATTERIES AT LEAST ONCE EVERY YEAR.**

## 2. To Select the Date Format and Monetary Mode

You can select the date format and Monetary mode after initialization depending on the requirements in your area.

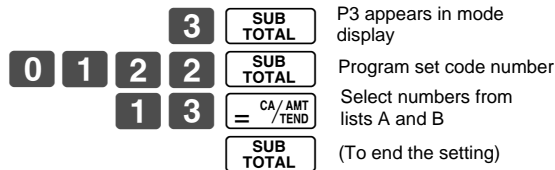
Default date format is Day/Month/Year.

Default Monetary Mode is Add 2.

Example:

Change the date format to Month/Day/Year, and change Monetary mode to Add 3.

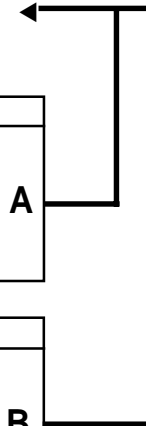
1. Set the Mode Switch to PGM.
2. Press the following keys.



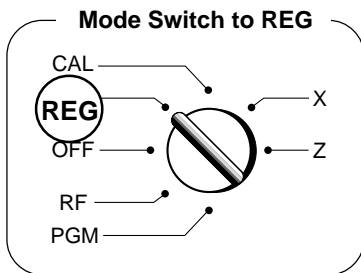
Date Format Selections	
Year/Month/Day	0
Month/Day/Year	1
Day/Month/Year	2

Monetary Mode Selections	
Add 0 (0. )	0
Add 1 (0.0 )	1
Add 2 (0.00 )	2



### 3. Loading Paper Roll And Replacing The Printer's Ink Roll



#### 1. To load journal paper

- Remove the printer cover by lifting up the back.



- Put a roll of journal paper into the holder.
- Cut the leading end of the roll paper with scissors and insert the paper into the inlet.



- Press the **FEED** key until 20 or 30 cm of paper is fed from the printer.
- Roll the paper onto the take-up reel a few turns.



- Set the left plate of the take-up reel and place the reel into the register.



- Press the **FEED** key to take up any slack in the paper.
- Replace the printer cover by placing the cover's front tab into the register's groove.



#### 2. To remove journal paper

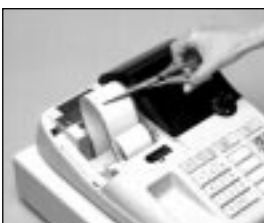
- Remove the printer cover following the instructions above.
- Press the **FEED** key until approximately 20cm of the paper is fed from the printer.
- Cut off the roll paper.



- Remove the take-up reel from the printer and take off the left plate of the reel.
- Remove the journal paper from the take-up reel.



- Cut off the paper left in the printer and press the **FEED** key until the remaining paper is fed out from the printer.



- Remove the core of the paper.



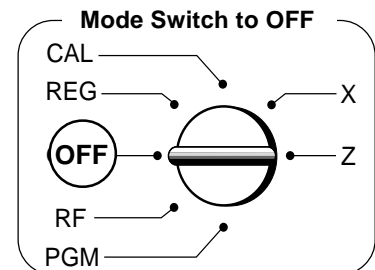
- Load new paper following the instructions above, and replace the printer cover.

Default printer setting is for Journal.

To print receipts, please refer to 1-7-3 on page 20 to switch the printer for Receipt or Journal.

#### ► To load receipt paper

- To use the printer to print receipts, follow steps 1 through 4 of "To load journal paper".
- Pass the leading end of the receipt paper through the printer cover's paper outlet and replace the printer cover.
- Tear off any excess paper.



#### ► To replace the ink roll

- Remove the printer cover.
- Lift up the tab on the ink roll marked "PULL UP".

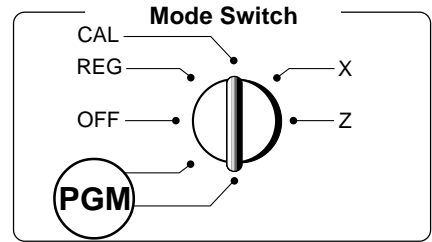


- Install a new Ink Roll and press it down firmly but gently until it snaps into place.
- Replace the printer cover onto the cash register.
- Press the **#/NS** key to check for correct operation.

**Options:** Roll paper – P-5860  
Ink Roll – IR-40



### 4. Basic Programming for QUICK START



Part-1

Procedure	Purpose
<p>1. Insert the PROGRAM key (marked "PGM") and rotate to PGM position.</p>	Programming
<p>2. Press the following keys to set the current time.</p> <p>Example: 13:18 PM = 1318</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center; margin-right: 10px;"> <p><b>1</b> <b>3</b> <b>1</b> <b>8</b></p> <p>Time          Minutes</p> </div> <div style="margin-right: 10px;"> <p><b>1</b> <b>SUB TOTAL</b></p> </div> <div style="margin-right: 10px;"> <p><b>X/DATE TIME</b></p> </div> <div> <p><b>AC C</b></p> </div> </div> <p>P appears in mode display (to end the time setting)</p> <ul style="list-style-type: none"> <li>• Enter 4 digits</li> <li>• 24-hour time format</li> </ul>	Setting the current time
<p>3. Press the following keys to set the current date.</p> <p>Example: January 8, 2001 = 010108</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center; margin-right: 10px;"> <p><b>0</b> <b>1</b> <b>0</b> <b>1</b> <b>0</b> <b>8</b></p> <p>Year          Month          Day</p> </div> <div style="margin-right: 10px;"> <p><b>1</b> <b>SUB TOTAL</b></p> </div> <div style="margin-right: 10px;"> <p><b>X/DATE TIME</b></p> </div> <div> <p><b>AC C</b></p> </div> </div> <p>P appears in mode display (to end the date setting)</p> <ul style="list-style-type: none"> <li>• Enter 6 digits</li> <li>• Enter last 2 digits for year set. (2001 → 01)</li> </ul>	Setting the current date
<p>4. You can set only one tax calculation system – either an add-on or an add-in depending on the laws in your area. Press the following keys to set the tax rate.</p> <p>Example: Set tax rate 1 as 5.25% and tax rate 2 as 10%.</p> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> <div style="text-align: center; margin-right: 10px;"> <p><b>3</b> <b>SUB TOTAL</b></p> </div> <div> <p>P3 appears in mode display</p> </div> </div> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> <div style="text-align: center; margin-right: 10px;"> <p><b>0</b> <b>1</b> <b>2</b> <b>5</b></p> </div> <div style="margin-right: 10px;"> <p><b>SUB TOTAL</b></p> </div> <div> <p>Program set code No. for tax rate 1</p> </div> </div> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> <div style="text-align: center; margin-right: 10px;"> <p><b>5</b> <b>.</b> <b>2</b> <b>5</b></p> </div> <div style="margin-right: 10px;"> <p><b>= CA/AMT /TEND</b></p> </div> <div> <p>5.25% tax rate</p> </div> </div> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> <div style="text-align: center; margin-right: 10px;"> <p><b>5</b> <b>0</b> <b>0</b> <b>3</b></p> </div> <div style="margin-right: 10px;"> <p><b>= CA/AMT /TEND</b></p> </div> <div> <p>50 for Round off and 03 for VAT (Value Added Tax) – Add In</p> </div> </div> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> <div style="text-align: center; margin-right: 10px;"> <p><b>SUB TOTAL</b></p> </div> <div> <p>Program set code No. for tax rate 2</p> </div> </div> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> <div style="text-align: center; margin-right: 10px;"> <p><b>0</b> <b>2</b> <b>2</b> <b>5</b></p> </div> <div style="margin-right: 10px;"> <p><b>SUB TOTAL</b></p> </div> <div> <p>10% tax rate</p> </div> </div> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> <div style="text-align: center; margin-right: 10px;"> <p><b>1</b> <b>0</b></p> </div> <div style="margin-right: 10px;"> <p><b>= CA/AMT /TEND</b></p> </div> <div> <p>50 for Round off and 03 for VAT (Value Added Tax) – Add In</p> </div> </div> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> <div style="text-align: center; margin-right: 10px;"> <p><b>5</b> <b>0</b> <b>0</b> <b>3</b></p> </div> <div style="margin-right: 10px;"> <p><b>= CA/AMT /TEND</b></p> </div> <div> <p>50 for Round off and 03 for VAT (Value Added Tax) – Add In</p> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center; margin-right: 10px;"> <p><b>SUB TOTAL</b></p> </div> <div> <p>(to end the setting)</p> </div> </div> <ul style="list-style-type: none"> <li>• See page 21 to specify the tax system and rounding for details.</li> </ul>	Setting the Tax rate
<p>5. Press the following keys to preset tax status of departments.</p> <p>Tax status for the Departments are fixed as Non-taxable.</p> <p>Example: Set Departments 1 and 2 as taxable status 1.</p> <div style="display: flex; align-items: center; justify-content: center; margin-bottom: 10px;"> <div style="text-align: center; margin-right: 10px;"> <p><b>1</b> <b>SUB TOTAL</b></p> </div> <div> <p>P appears in mode display</p> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center; margin-right: 10px;"> <p><b>RA/MR</b> <b>+ 1</b></p> </div> <div style="margin-right: 10px;"> <p><b>- 2</b> <b>SUB TOTAL</b></p> </div> </div> <ul style="list-style-type: none"> <li>• See page 15 to change the fixed tax status.</li> </ul>	Setting the status of Departments

## Part-1 QUICK START OPERATION

Procedure	Purpose
<p>6. For the Euro only</p> <p>6-1. Press the following keys to define the main currency/print out currency of the subtotal.</p> <div style="text-align: center;"> <p><b>3</b> <b>SUB TOTAL</b>      P3 appears in mode display</p> <p><b>2 4 2 2</b> <b>SUB TOTAL</b></p> <p><b>1</b> <b>= CA/AMT/TEND</b></p> <p>Euro Status</p> <p><b>SUB TOTAL</b>      (to end the setting)</p> <p>Euro status</p> <p>(1) Main currency = Local, Print out subtotal = Local: <b>0</b></p> <p>(2) Main currency = Euro, Print out subtotal = Euro: <b>1</b></p> <p>(3) Main currency = Local, Print out subtotal = Both: <b>2</b></p> <p>(4) Main currency = Euro, Print out subtotal = Both: <b>3</b></p> </div> <p>6-2. Press the following keys to set the currency exchange rate against the Euro.</p> <div style="text-align: center;"> <p><b>3</b> <b>SUB TOTAL</b>      P3 appears in mode display</p> <p><b>1 9 9 9</b> <b>SUB TOTAL</b></p> <p><b>1 9 7 7 3</b> <b>= CA/AMT/TEND</b></p> <p>Exchange rate      Decimal position (up to 6 digits)</p> <p><b>SUB TOTAL</b>      (to end the setting)</p> <p>Example: (Exchange rate and decimal position)</p> <p>Currency exchange rate = 1 Euro in local currency</p> <p>1 Euro = 1.977 DM:      <b>1 9 7 7 3</b></p> <p>1 Euro = 1957.77319 Lit: <b>1 9 5 7 7 7 2</b></p> </div>	<p>Setting the Euro</p>

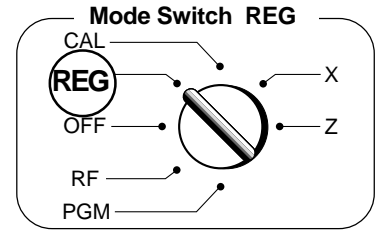
Procedure	Purpose
<p>For Australia only.</p> <p>You can set some programmable options to suit the Australian GST by the following procedure.</p> <p>1. Insert the PROGRAM key (marked "PGM") and rotate to Z position.</p> <p>2. Press the following keys to program.</p> <div style="text-align: center;"> <p><b>0 1 0 1 2 0 0 1</b> <b>SUB TOTAL</b> <b>= CA/AMT/TEND</b></p> <p>If you want to cancel this operation, press <b>SUB TOTAL</b> instead of <b>= CA/AMT/TEND</b>.</p> </div>	<p>Setting the Australian GST</p>

Procedure	Purpose
<p>For the Euro only.</p> <p>You can restrict the registable currency to the Euro only by the following procedure.</p> <p>1. Insert the PROGRAM key (marked "PGM") and rotate to Z position.</p> <p>2. Issue all reset report including periodic data.</p> <p>3. Press the following keys to set.</p> <div style="text-align: center;"> <p><b>0 1 0 7 2 0 0 2</b> <b>SUB TOTAL</b> <b>= CA/AMT/TEND</b></p> <p>If you want to cancel this operation, press <b>SUB TOTAL</b> instead of <b>= CA/AMT/TEND</b>.</p> </div>	<p>Restricting the currency (Euro)</p>

## 5. Basic Operation after Basic Programming

**Note:**

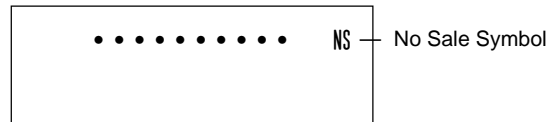
Whenever an error is generated (E01 displayed), the input figures reset to 0.



Part-1



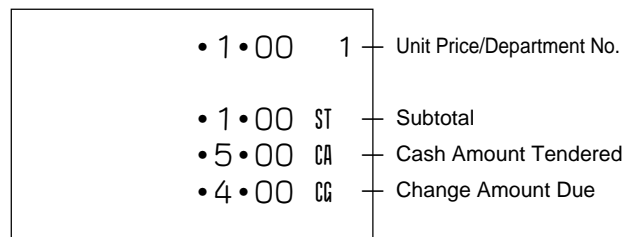
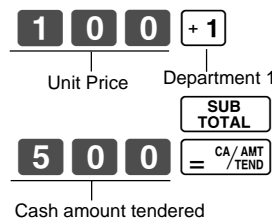
### 5-1 Open the drawer without a sale



### 5-2 Basic operation

Example

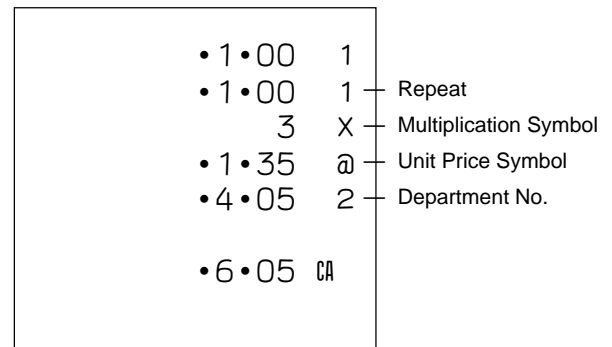
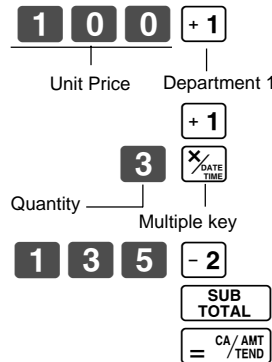
Unit Price	\$1.00
Quantity	1
Dept.	1
Cash Amount tendered	\$5.00



### 5-3 Multiple registration of the same items

Example

Unit Price	\$1.00	\$1.35
Quantity	2	3
Dept.	1	2

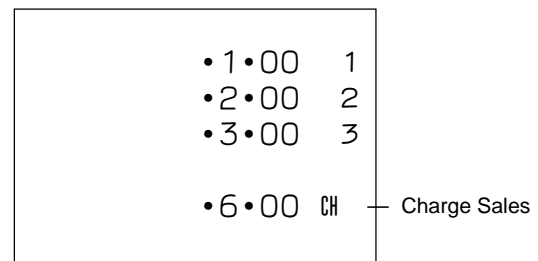
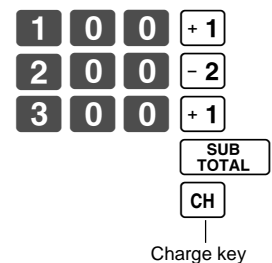


Note that repeat registration can be used with unit prices up to 6 digits long.

### 5-4 Charge sales

Example

Unit Price	\$1.00	\$2.00	\$3.00
Quantity	1	1	1
Dept.	1	2	1



You cannot perform the amount tendered operation using the CH key.

## Part-1 QUICK START OPERATION

### 5-5 Split cash/ charge sales

Example

Unit Price	\$2.00	\$3.00	\$4.00
Quantity	1	1	1
Dept.	1	2	1
Cash Amount tendered	\$5.00		

Operation

2 0 0 + 1  
 3 0 0 - 2  
 4 0 0 + 1  
 SUB TOTAL  
 5 0 0 = CA / AMT / TEND  
 CH

Printout

• 2.00 1  
 • 3.00 2  
 • 4.00 1

• 9.00 ST  
 • 5.00 CA  
 • 4.00 CH

Cash Amount Tendered  
 Charge Sales

### 5-6 Corrections

Corrections can be made while you are registering the item (before you press a department key), or after it has already been registered into the memory (by pressing a department key).

#### 5-6-1 Before you press a department key

**AC C** key clears the last item entered.

Example

- Entered 400 for unit price by mistake instead of 100.

Operation

4 0 0 AC C  
 Wrong entry Clears the last item entered.  
 1 0 0 + 1  
 Correct entry Registered Department 1

Printout

• 1.00 1

- Entered unit price first instead of quantity and then pressed **X/DATE TIME**.

2 0 0 X/DATE TIME  
 Unit price Multiplication  
 AC C  
 Clears the last item entered.  
 5 X/DATE TIME  
 Quantity Multiplication

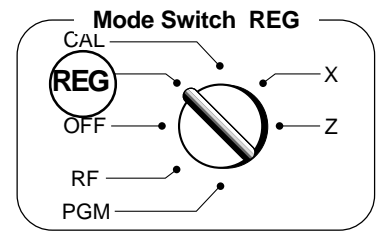
2 0 0 - 2  
 Unit price Registered Department 2

5 X  
 • 2.00 @  
 • 10.00 2

- Entered 150 for unit price by mistake instead of 105.

1 0 X/DATE TIME  
 Quantity Multiplication  
 1 5 0 AC C  
 Wrong entry Clears the last item entered.  
 1 0 X/DATE TIME  
 Quantity  
 1 0 5 x 3  
 Correct entry Registered Department 3

10 X  
 • 1.05 @  
 • 10.50 3



Part-1

**Operation**

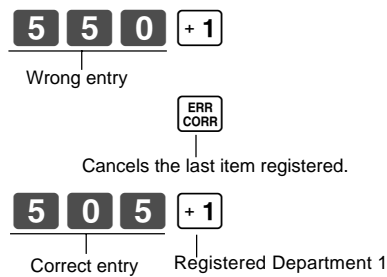
**Printout**

**5-6-2 After you pressed a department key**

**ERR CORR** key cancels the last registered item.

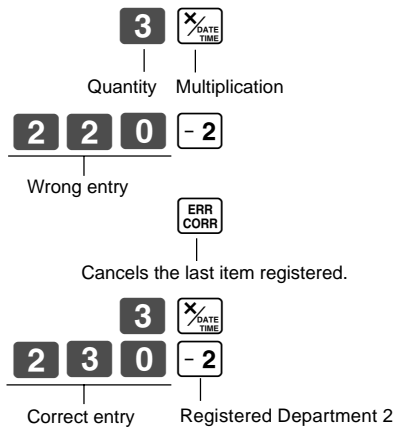
**Example**

- Entered unit price 550 by mistake instead of 505 and pressed a department key.



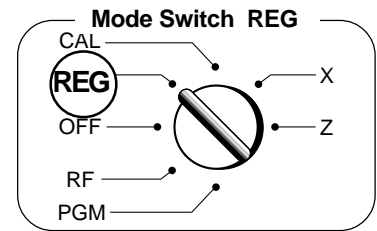
•5•50	1
-5•50	VD
•5•05	1

- Entered unit price 220 by mistake instead of 230 and pressed a department key.



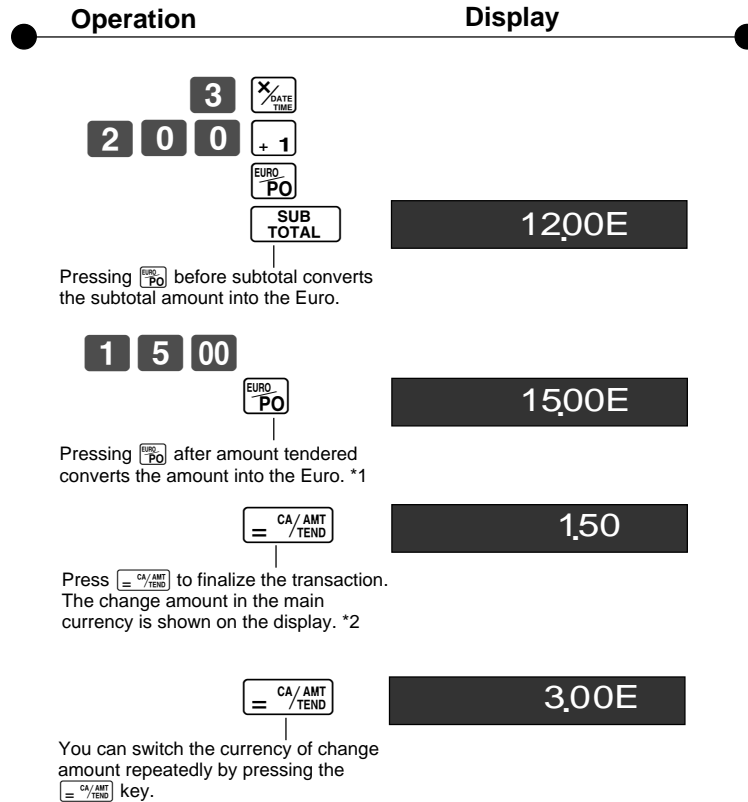
3	X
•2•20	@
•6•60	2
-6•60	VD
3	X
•2•30	@
•6•90	2

**5-7-1 Registering with currency exchange**



**Example**

Unit Price	2.00
Quantity	3
Dept.	1
Cash Amount Tendered	Euro 15.00
Rate	1Euro = 0.5 Fr
Main currency	Local (Fr)
Printout of ST	Both currencies



- \*1 If the payment is the same as the subtotal amount, you can omit this operation. Press [CA / AMT / TEND] key directly after the subtotal.
- \*2 If the payment is less than the subtotal amount, the cash register specifies it as a partial payment and shows the balance in the main currency on the display.

**Printout**

3	X	
•2•00	@	
•6•00	1	
•6•00	ST	Subtotal in the main currency
12•00	@	Subtotal after conversion
15•00	CA	Payment in the Euro
	@	
•7•50	CA	Payment after conversion
•1•50	CG	Change in the main currency
3•00	@	Change in the sub currency

## 6. Daily Management Report

This section tells you the procedures to use to produce reports of the transaction data stored in the cash register's memory.

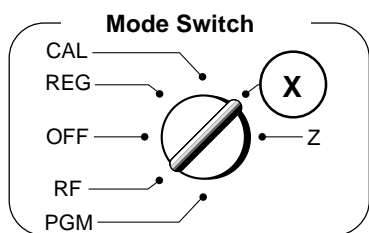
### Important

Remember that when you issue a reset (Z) report, the data that is reported is cleared from the applicable totalizers. To view data without clearing totalizers, issue a read (X) report.

### 6-1 Financial Report

Operation

Printout



08-01-01	Date
12-35#0085	Time/Consecutive No.
X	Read Symbol
158 *	Gross Sales No. of items
•16676•48 *	Gross Sales Amount
46 NT	Net Sales No. of Customers
•16675•99 NT	Net Sales Amount
•16518•99 CA#	Cash Total in Drawer
•92•00 CH#	Charge Total in Drawer
•70•00 *CK	Check Total in Drawer

### 6-2 General Control Read/Reset Report

Operation

Printout

#### 6-2-1 Daily Read/Reset Report

Mode Switch to **X**  
(Read)




Z (Reset) report

08-01-01	Date
19-35#0086	Time/Consecutive No.
0001 Z	Non-resettable No. of Resets/RESET Symbol **
48 1	No. of Items/Dept. No.
•166•94	Amount
61 2	
•1259•15	
44 3	
•15175•39	
5 4	
•75•00	
158 *	Gross Sales No. of Items
•16676•48 *	Gross Sales Amount

Mode Switch to **Z**  
(Reset)



**Part-1 QUICK START OPERATION**

•0•50	-	Reduction Amount
•0•91	%+	Premium/Discount Amount
•1182•64	TA	Taxable Amount for Tax Rate 1
•62•07	TX	Tax Amount for Tax Rate 1
•167•45	*TA	Taxable Amount for Tax Rate 2
•16•75	TX2	Tax Amount for Tax Rate 2
46	NT	Net Sales No. of Customers
•16675•99	NT	Net Sales Amount
47	CA	Cash Sales Count
•16513•99	CA	Cash Sales Amount
4	CH	Charge Sales Count
•92•00	CH	Charge Sales Amount
1	CK	Check Sales Count
•70•00	CK	Check Sales Amount
•15•00	RA	Received On Account Amount
•10•00	PO	Paid Out Amount
4	VD	Error Correction Count
1	RF	Refnd Mode Count
•3•00	RF	Refund Mode Amount
16	CA X	No. of  key operation
1	NS	No sale Count
•16518•99	CA #	Cash in Drawer
•92•00	CH #	Charge in Drawer
•70•00	*CK	Check in Drawer
000001		Non-resettable Grand Sales total
6675•99		(Printed only on RESET report) <sup>2</sup>

X (Read) report is the same except <sup>1</sup> and <sup>2</sup>.

**6-2-2 Periodic Read/Reset Report**

Operation

Printout

Mode Switch to

Z

or

X

1

0

08-01-01		Date
19-50#0087		Time/Consecutive No.
#10#••••	X	Read Symbol
77	*	Gross Sales No. of Items
•1116•90	*	Gross Sales Amount
11	NT	Net Sales No. of Customers
•1116•90	NT	Net Sales Amount





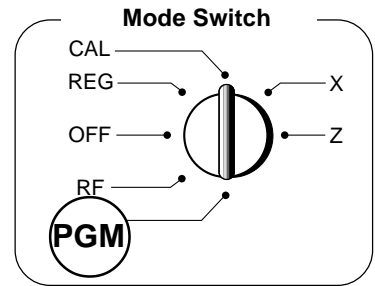
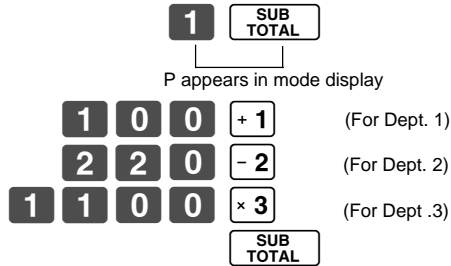
# CONVENIENT OPERATION

## 1. Various Programming

### 1-1 Unit price for Departments

Example

Unit Price	\$1.00	\$2.20	\$11.00
Dept.	1	2	3

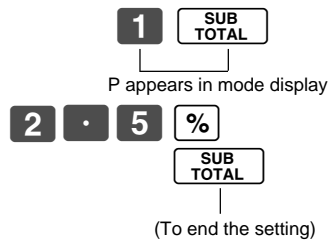


- Unit prices within the range of 0.01~9999.99.

### 1-2 Rate for percent key

Example

Discount Rate	2.5%
---------------	------



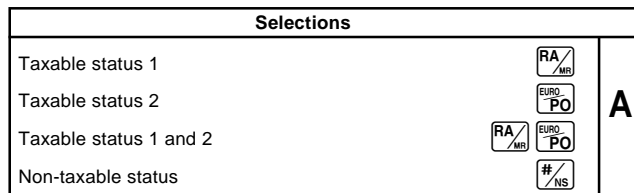
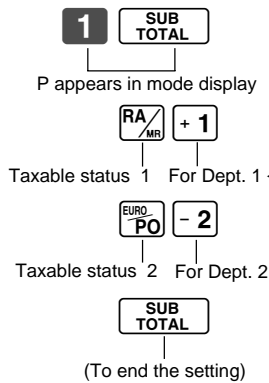
- The rate within the range of 00.01 to 99.99%.

### 1-3 To change tax status for Departments

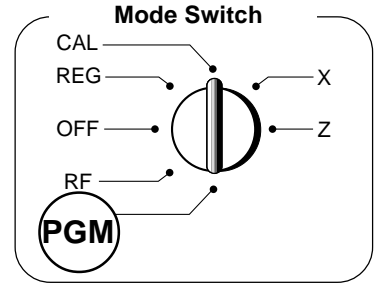
Tax status for the Departments 1~4 are initialized as Non-Taxable.

Example

Status	Taxable 1	Taxable 2
Depts.	1	2

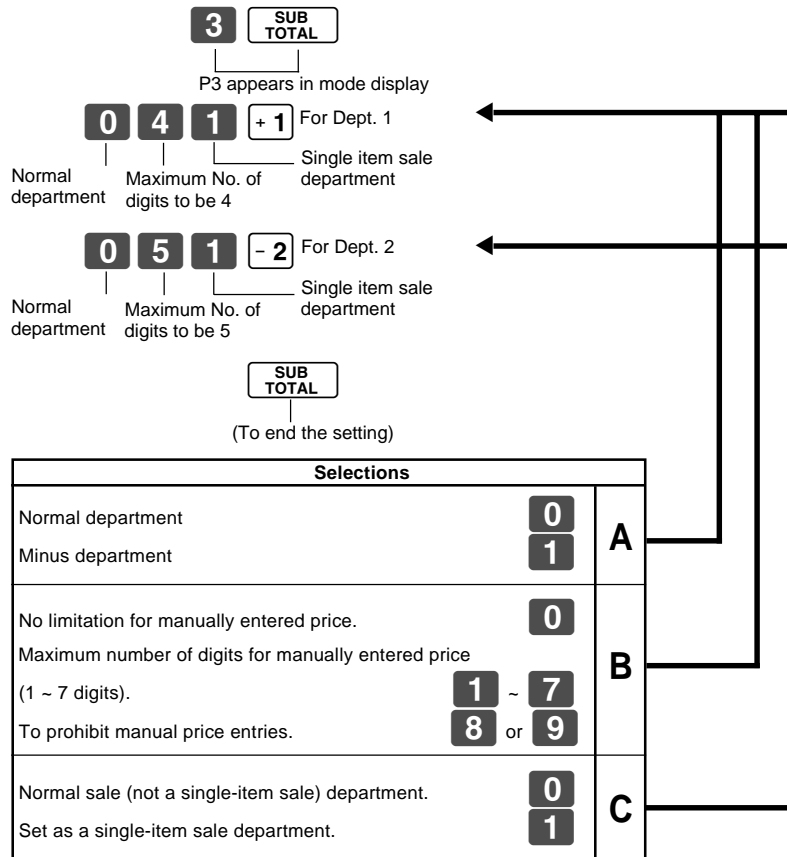


### 1-4 Status for Department



Example

Depts.	Selections		
	A	B	C
1	0	4	1
2	0	5	1



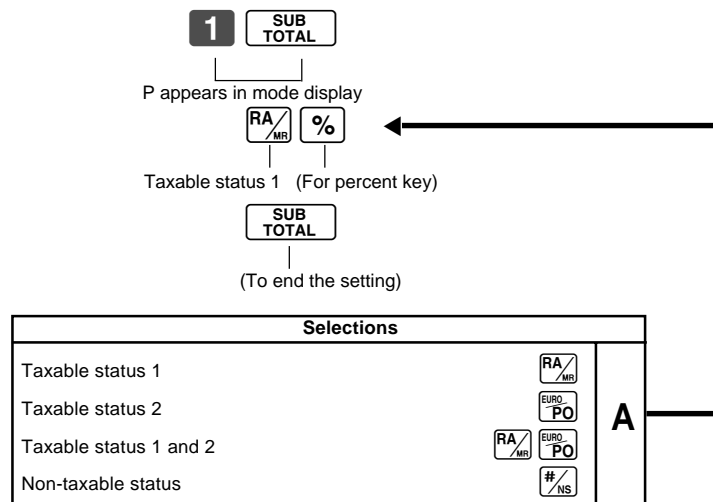
### 1-5 Status for percent key

#### 1-5-1 To change taxable status for the percent key

The percent key is initialized as Non-taxable.

Example

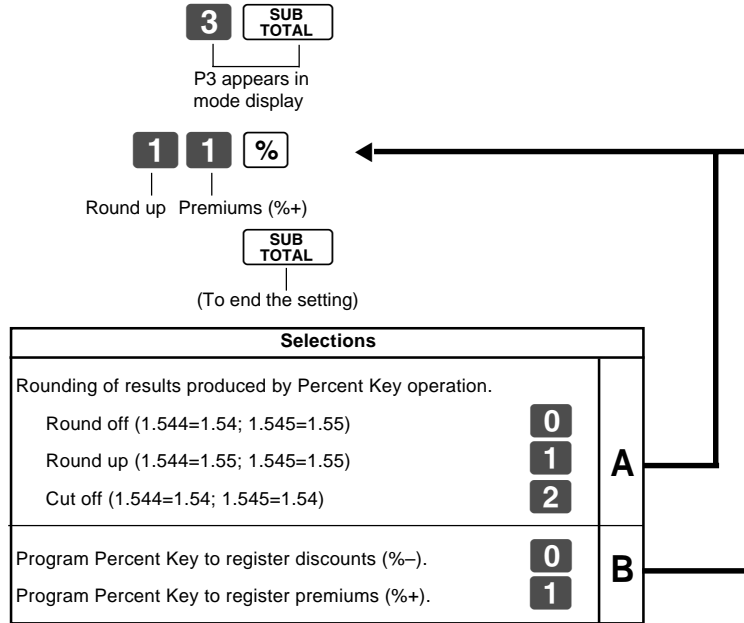
Change Percent key registration as a Taxable status 1.



### 1-5-2 Status for percent key

Example

Round	Up
Percent	%+



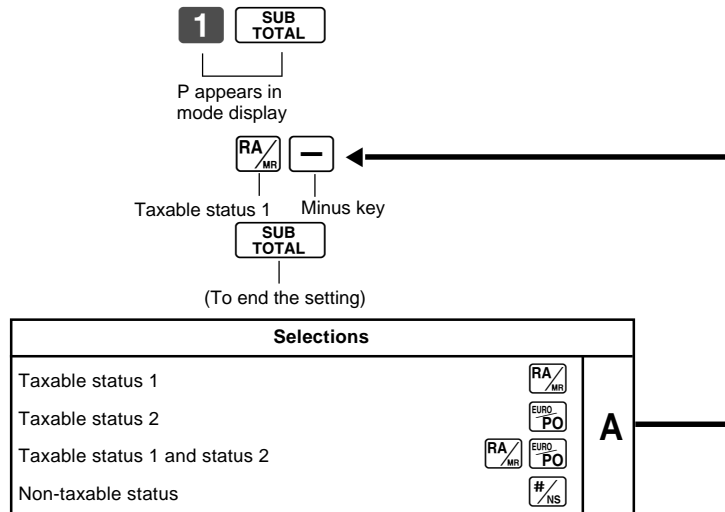
Part-2

### 1-6 Taxable Status for minus key

Example :

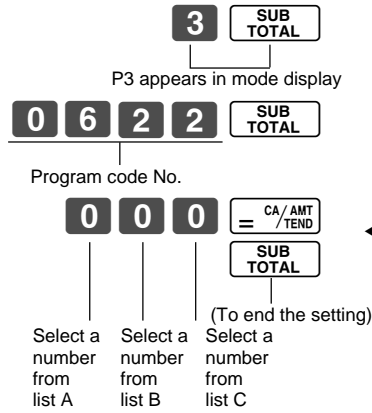
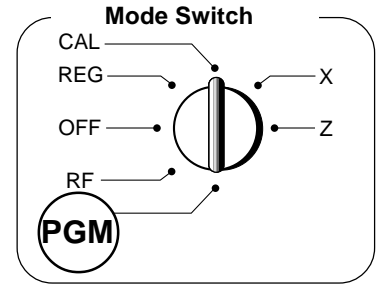
Change minus key registrations  
Taxable status 1.

The minus key is initialized as Non-taxable.



**1-7 General features**

**1-7-1 To set general controls**



Selections			
Maintain key buffer during receipt issue in REG mode.			
Reset the transaction number to zero whenever a General Control Reset Report is issued.			
Allow credit balance registration.			
No	Yes	Yes	<b>0</b>
		No	<b>1</b>
	No	Yes	<b>2</b>
		No	<b>3</b>
Yes	Yes	Yes	<b>4</b>
		No	<b>5</b>
	No	Yes	<b>6</b>
		No	<b>7</b>

**A**

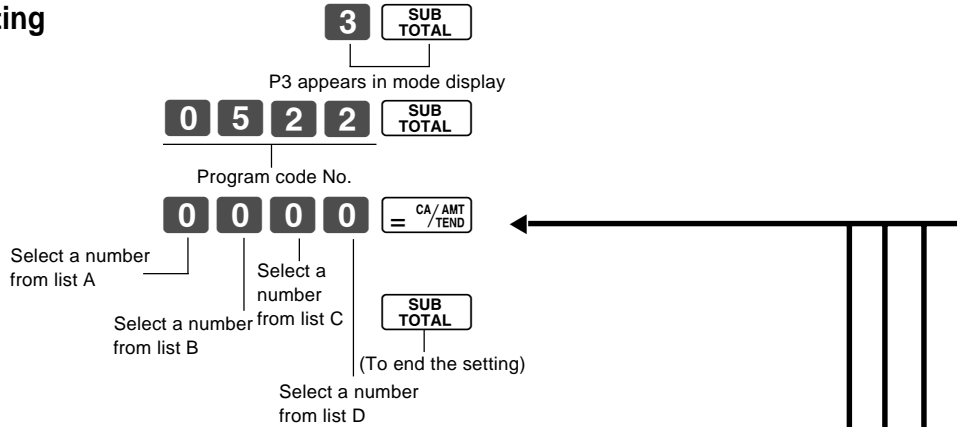
Selections			
Limit the last 2 digits of cash amount tendered to 00, 25, 50 and 75 when Denmark rounding is specified for subtotal and total amount.			
Allow partial cash amount tendered.			
Allow partial check amount tendered.			
Yes	Yes	No	<b>0</b>
		Yes	<b>1</b>
	No	No	<b>2</b>
		Yes	<b>3</b>
No	Yes	No	<b>4</b>
		Yes	<b>5</b>
	No	No	<b>6</b>
		Yes	<b>7</b>

**B**

Selections	
Use the <b>00</b> key on a numeric keyboard.	<b>0</b>
Use the <b>00</b> key as a 000 key.	<b>1</b>

**C**

**1-7-2 To set printing controls**



Selections	
Use the printer to print a journal.	0
Use the printer to print receipts.	1

Selections	
Print zero-total item on the General Control Read/Reset Reports.	
Print total line at finalization	
No	Yes: 0, No: 1
Yes	Yes: 4, No: 5

Selections		
Print RF switch mode refund count/amount on the General Control Read/Reset Reports.		
Print the grand sales total on the General Control Reset Reports.		
Print the time on the receipt and journal.		
Yes	No: Yes: 0, No: 1	
	Yes: Yes: 2, No: 3	
	No	No: Yes: 4, No: 5
		Yes: Yes: 6, No: 7

Selections		
Print the consecutive number on the receipt/journal.		
Print the subtotal on the receipt/journal when the Subtotal Key is pressed.		
Skip item print on journal.		
No	No: Yes: 0, No: 1	
	Yes: Yes: 2, No: 3	
	Yes	No: Yes: 4, No: 5
		Yes: Yes: 6, No: 7

Part-2

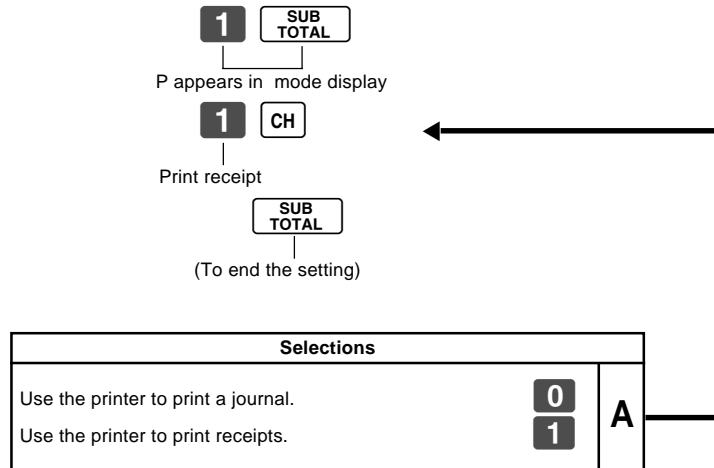
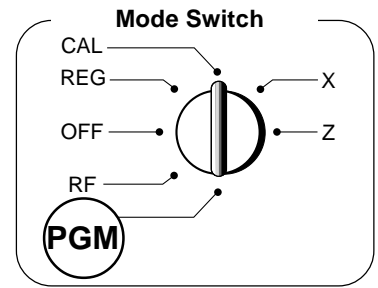
## Part-2 CONVENIENT OPERATION

### 1-7-3 Printer switch for Receipt or Journal

The printer is initialized as journal.

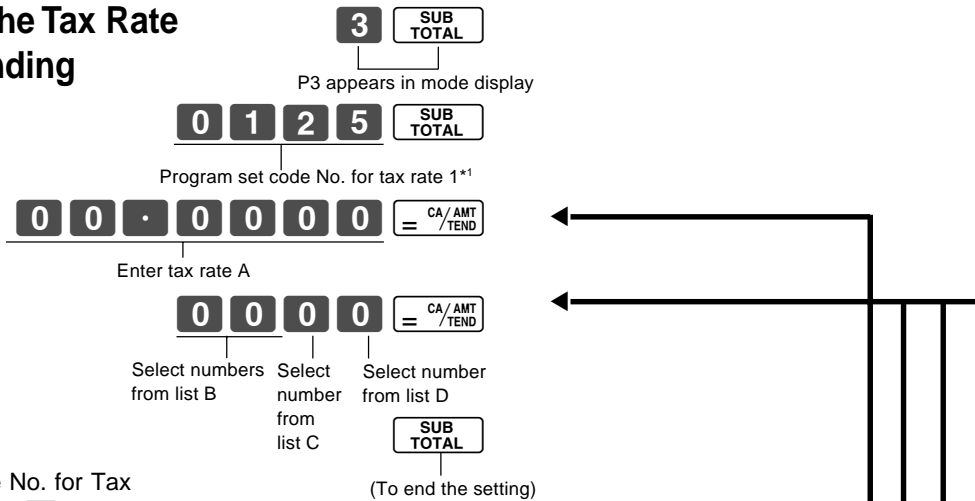
Example

To print a receipt



- Printer selection to print a journal or receipts can also be set on procedures 1-7-2 "To set printing controls".

### 1-8 Setting the Tax Rate and rounding



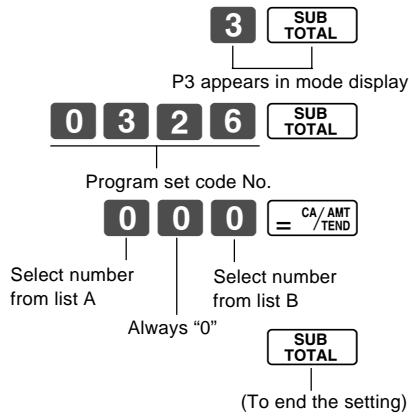
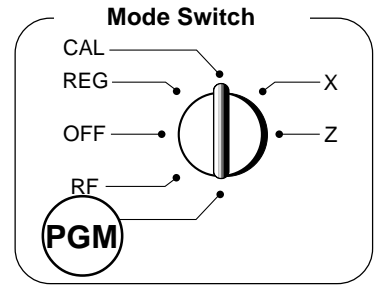
\*1 Program set code No. for Tax rate 2 is **0 2 2 5**.

- You can use either an add-on rate tax or an add-in rate tax (VAT), depending on the requirements in your area. You can specify only one tax rate.
- The normal rounding specification tells the cash register how to round tax amounts to the proper number of decimal places.
- The special rounding specification and Denmark rounding tell the cash register how to round off subtotals and totals so that their rightmost 2 digits are 00, 25, 50 and 75.
- Note that the rounding specification you program for your cash register depends on the tax laws of your country.

Tax rate specifications	
The tax rate within the range of 0.0001 ~ 99.9999%. Use <b>.</b> key for decimal point.	<b>A</b>
Normal rounding specifications	
Cut off to 2 decimal places. (1.544=1.54; 1.545=1.54)	<b>0 0</b>
Round off to 2 decimal places. (1.544=1.54; 1.545=1.55)	<b>5 0</b>
Round up to 2 decimal places. (1.544=1.55; 1.545=1.55)	<b>9 0</b>
Special rounding specifications for subtotal and total amounts	
No specifications	<b>0</b>
Special rounding 1 0 ~ 2 → 0; 3 ~ 7 → 5; 8 ~ 9 → 10 Examples: 1.21=1.20; 1.26=1.25; 1.28=1.30	<b>1</b>
Special rounding 2 0 ~ 4 → 0; 5 ~ 9 → 10 Examples: 1.123=1.120; 1.525=1.530	<b>2</b>
Denmark rounding (set the amount tender restriction on page 18 also) 00 ~ 12 → 0; 13 ~ 37 → 25; 38 ~ 62 → 50; 63 ~ 87 → 75; 88 ~ 100 → 100 Examples: 1.11=1.00; 1.28=1.25; 1.39=1.50; 1.80=1.75; 1.99=2.00	<b>3</b>
Scandinavian rounding 00 ~ 24 → 0; 25 ~ 74 → 50; 75 ~ 99 → 100 Examples: 1.21=1.0; 1.30=1.50; 1.87=2.00	<b>6</b>
Australian rounding (only for tax rate 1) 0 ~ 2 → 0; 3 ~ 7 → 5; 8 ~ 9 → 10 Examples: 1.21=1.20; 1.26=1.25; 1.28=1.30	<b>7</b>
Tax system specifications for subtotal and total amounts	
No specifications.	<b>0</b>
Specifies add-on rate tax.	<b>2</b>
Specifies add-in rate tax (VAT).	<b>3</b>

Part-2

**1-9 To control Tax Status printing**



		Selections	
Print tax total line (only for Australia).			
Print tax symbol (only for Australia).			
Yes	No	0	A
	Yes	1	
No	No	2	
	Yes	3	

		Selections	
Print taxable amount.			
Print taxable amount and tax amount for Add-in.			
Yes	Yes	0	B
	No	1	
No	Yes	2	
	No	3	



**1-10 Printing to read All Pre-set Data**

- Printing preset data.



CA/AMT  
TEND

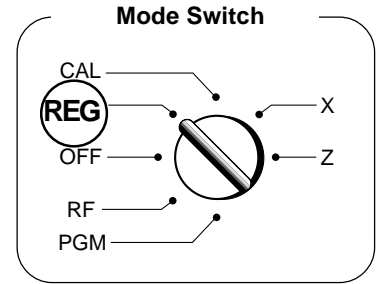
08-01-01	Date
08-06#0038	Time/Consecutive No.
	X Read Symbol
1.....1.00	1 Dept No./Unit Price/Tax Status
#041	Normal Dept/Digit Limit/Single Item
2.....2.20	2
#051	
3.....11.00	#
#000	
-.....	1 Minus/Tax Status
2.5 %	Percent Rate/%+ or %-
#11	1 Percent Key Control/Tax Status
1.23242	# Euro Exchange Rate
0122...#22	Date/Monetary Mode Control
0522...#1062	Print Control
0622...#0000	General Control
1022...#3	Calculation Control
0326...#002	Tax Control
2422...#0	Euro Status
0125.....	
5.2500 %	Tax Rate1
5003	Rounding specification/
0000	Tax System specification
0255.....	
10.0000 %	Tax Rate 2
5003	
0000	
08-01-01	

Part-2

## 2. Various Operations

### 2-1 Registration using preset price for Departments.

(Programming: See page 15)



Example

Unit Price	\$1.00	\$2.20	\$11.00
Quantity	1	2	4
Depts.	1	2	3
Amount tendered	\$50.00		

Operation	Printout																											
<p> <span style="border: 1px solid black; padding: 2px;">+ 1</span>  <span style="border: 1px solid black; padding: 2px;">- 2</span>  <span style="border: 1px solid black; padding: 2px;">- 2</span>  <span style="border: 1px solid black; padding: 2px;">4</span> <span style="border: 1px solid black; padding: 2px;">X</span> <span style="border: 1px solid black; padding: 2px;">DATE</span> <span style="border: 1px solid black; padding: 2px;">TIME</span> <span style="border: 1px solid black; padding: 2px;">x 3</span>  <span style="border: 1px solid black; padding: 2px;">SUB TOTAL</span>  <span style="border: 1px solid black; padding: 2px;">5</span> <span style="border: 1px solid black; padding: 2px;">0</span> <span style="border: 1px solid black; padding: 2px;">0</span> <span style="border: 1px solid black; padding: 2px;">0</span> <span style="border: 1px solid black; padding: 2px;">=</span> <span style="border: 1px solid black; padding: 2px;">CA / AMT / TEND</span> </p>	<table border="1" style="width: 100%;"> <tr> <td style="text-align: right;">• 1•00</td> <td style="text-align: right;">1</td> <td>Unit Price Programmed to Department 1</td> </tr> <tr> <td style="text-align: right;">• 2•20</td> <td style="text-align: right;">2</td> <td>Unit Price Programmed to Department 2</td> </tr> <tr> <td style="text-align: right;">• 2•20</td> <td style="text-align: right;">2</td> <td>Repeat</td> </tr> <tr> <td style="text-align: right;">4</td> <td style="text-align: right;">X</td> <td>Multiplication Symbol</td> </tr> <tr> <td style="text-align: right;">• 11•00</td> <td style="text-align: right;">@</td> <td>Unit Price Programmed to Department 3</td> </tr> <tr> <td style="text-align: right;">• 44•00</td> <td style="text-align: right;">3</td> <td></td> </tr> <tr> <td style="text-align: right;">• 49•40</td> <td style="text-align: right;">ST</td> <td></td> </tr> <tr> <td style="text-align: right;">• 50•00</td> <td style="text-align: right;">CA</td> <td>Cash Amount Tendered</td> </tr> <tr> <td style="text-align: right;">• 0•60</td> <td style="text-align: right;">CG</td> <td>Change</td> </tr> </table>	• 1•00	1	Unit Price Programmed to Department 1	• 2•20	2	Unit Price Programmed to Department 2	• 2•20	2	Repeat	4	X	Multiplication Symbol	• 11•00	@	Unit Price Programmed to Department 3	• 44•00	3		• 49•40	ST		• 50•00	CA	Cash Amount Tendered	• 0•60	CG	Change
• 1•00	1	Unit Price Programmed to Department 1																										
• 2•20	2	Unit Price Programmed to Department 2																										
• 2•20	2	Repeat																										
4	X	Multiplication Symbol																										
• 11•00	@	Unit Price Programmed to Department 3																										
• 44•00	3																											
• 49•40	ST																											
• 50•00	CA	Cash Amount Tendered																										
• 0•60	CG	Change																										

### 2-2 Single-Item Sales

(Programming: See page 16)

Example 1:

Status	Single item sale
Unit Price	\$0.50
Quantity	1
Dept.	1

<p> <span style="border: 1px solid black; padding: 2px;">5</span> <span style="border: 1px solid black; padding: 2px;">0</span> <span style="border: 1px solid black; padding: 2px;">+ 1</span> </p>	<table border="1" style="width: 100%;"> <tr> <td style="text-align: right;">• 0•50</td> <td style="text-align: right;">1</td> <td></td> </tr> <tr> <td style="text-align: right;">• 0•50</td> <td style="text-align: right;">CA</td> <td>Cash Sales</td> </tr> </table>	• 0•50	1		• 0•50	CA	Cash Sales
• 0•50	1						
• 0•50	CA	Cash Sales					

For this example, Dept. 1 is programmed for a single-item-sale. (Programming: See page 16.)

Example 2:

Status	Normal	Single item sale
Unit Price	\$1.00	\$0.50
Quantity	1	1
Dept.	2	1

<p> <span style="border: 1px solid black; padding: 2px;">1</span> <span style="border: 1px solid black; padding: 2px;">0</span> <span style="border: 1px solid black; padding: 2px;">0</span> <span style="border: 1px solid black; padding: 2px;">- 2</span>  <span style="border: 1px solid black; padding: 2px;">5</span> <span style="border: 1px solid black; padding: 2px;">0</span> <span style="border: 1px solid black; padding: 2px;">+ 1</span>  <span style="border: 1px solid black; padding: 2px;">SUB TOTAL</span>  <span style="border: 1px solid black; padding: 2px;">=</span> <span style="border: 1px solid black; padding: 2px;">CA / AMT / TEND</span> </p>	<table border="1" style="width: 100%;"> <tr> <td style="text-align: right;">• 1•00</td> <td style="text-align: right;">2</td> <td></td> </tr> <tr> <td style="text-align: right;">• 0•50</td> <td style="text-align: right;">1</td> <td></td> </tr> <tr> <td style="text-align: right;">• 1•50</td> <td style="text-align: right;">CA</td> <td>Cash Sales</td> </tr> </table>	• 1•00	2		• 0•50	1		• 1•50	CA	Cash Sales
• 1•00	2									
• 0•50	1									
• 1•50	CA	Cash Sales								

Single-item sale cannot be finalized if an item is registered previously.

### 2-3 Check sales

Example:

Unit Price	\$35.00
Quantity	2
Dept.	4

<b>Operation</b>	<b>Printout</b>
<p>3 5 0 0 + 4</p> <p>+ 4</p> <p>SUB TOTAL</p> <p>CHK /NS</p>	<p>•35•00 4</p> <p>•35•00 4</p> <p>•70•00 CK — Check Sales</p>

### 2-4 Split cash/ check sales

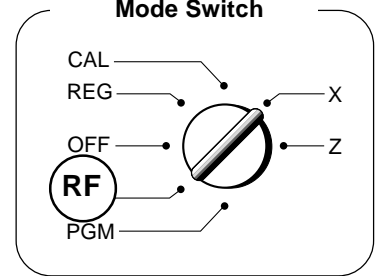
Example:

Unit Price	\$30.00	\$25.00
Quantity	1	1
Depts.	2	3
Cash amount tendered	\$20.00	
Check	\$35.00	

<p>3 0 0 0 - 2</p> <p>2 5 0 0 × 3</p> <p>SUB TOTAL</p> <p>2 0 0 0 = CA / AMT / TEND</p> <p>CHK /NS</p>	<p>•30•00 2</p> <p>•25•00 3</p> <p>•55•00 ST</p> <p>•20•00 CA</p> <p>•35•00 CK</p>
--	--

Part-2

**Mode Switch**



### 2-5 Refund

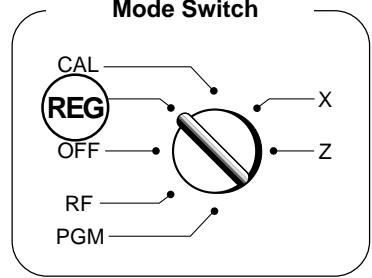
Example

Unit Price	\$1.00	\$2.00
Quantity	1	1
Dept.	2	3

<b>Operation</b>	<b>Printout</b>
<p>1 0 0 - 2</p> <p>2 0 0 × 3</p> <p>SUB TOTAL</p> <p>= CA / AMT / TEND</p>	<p>13-55#0074 RF — Refund Mode Indicator</p> <p>•1•00 2</p> <p>•2•00 3</p> <p>•3•00 CA</p>

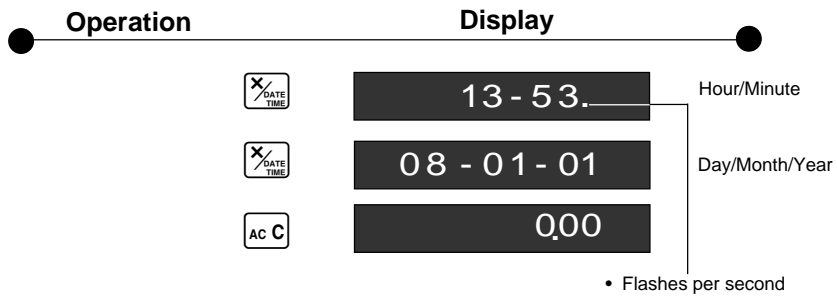
After you finish RF mode operation, be sure to return the Mode Switch to the REG (register) setting.

**Mode Switch**

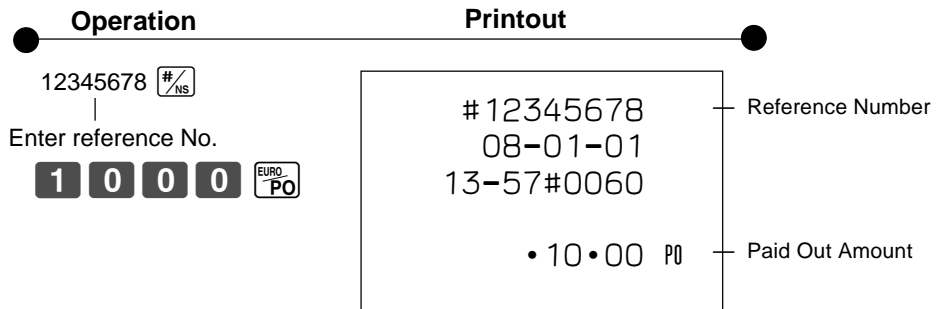


**2-6 Other registrations**

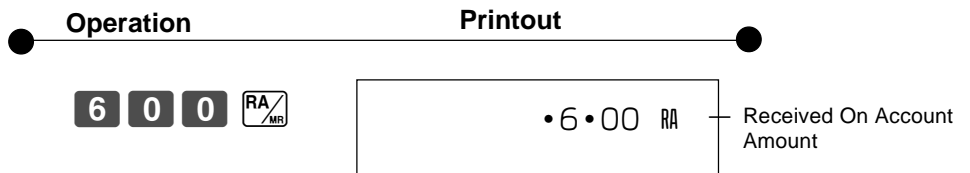
**2-6-1 Reading the Time and Date**



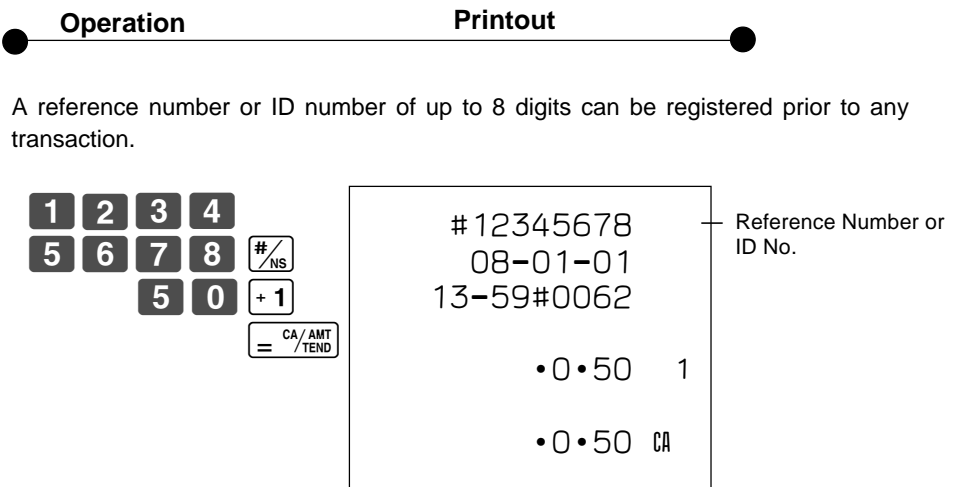
**2-6-2 Paid out from cash in drawer**



**2-6-3 Cash received on account**

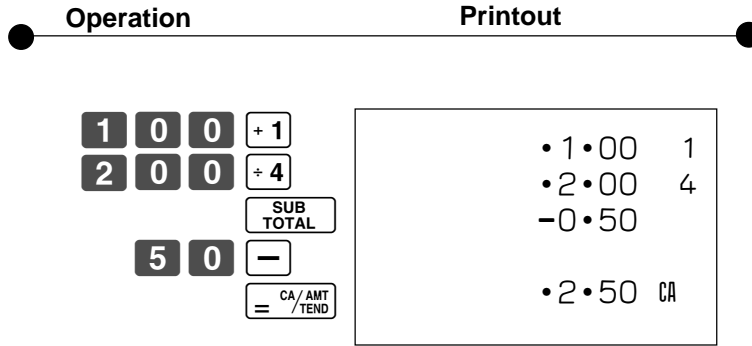


**2-6-4 Registering identification numbers**



**2-6-5 Reduction on subtotal**

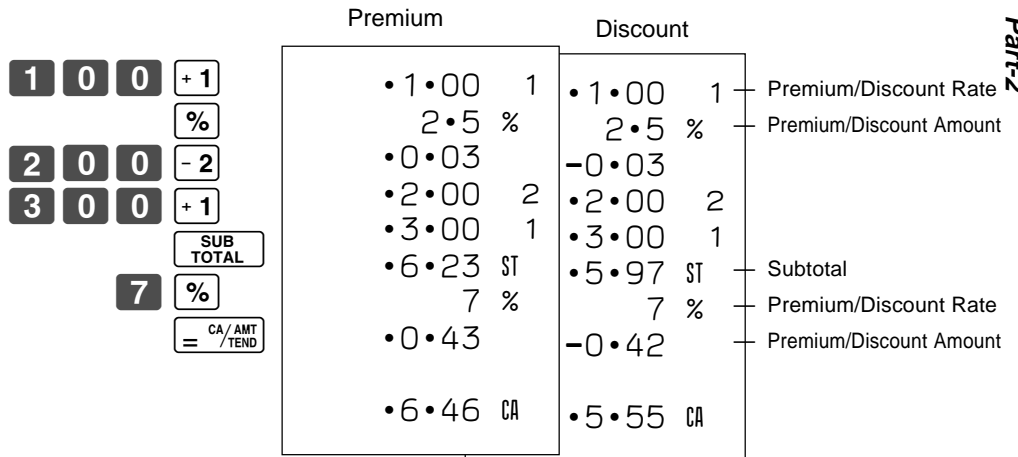
Example:  
Amount due reduced by \$0.50.



**2-6-6 Premium/Discount**

- 2.5% premium/discount (programmed to [%] key) applied to first item.

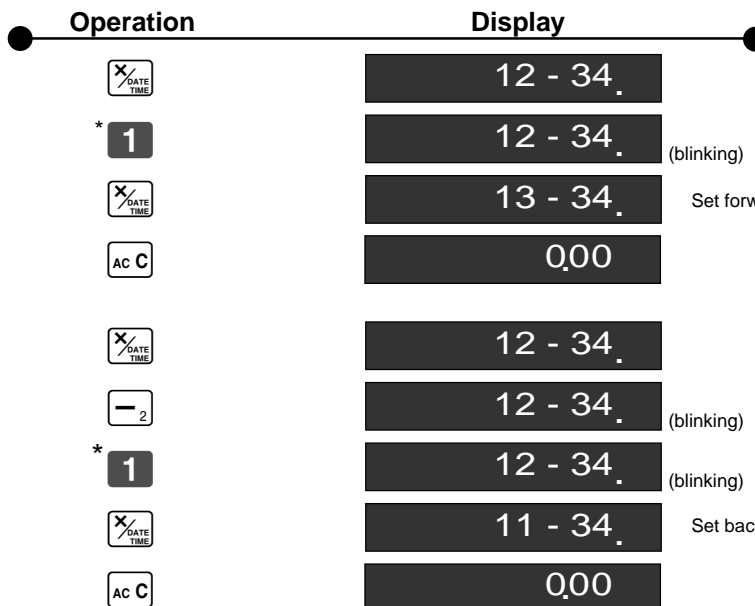
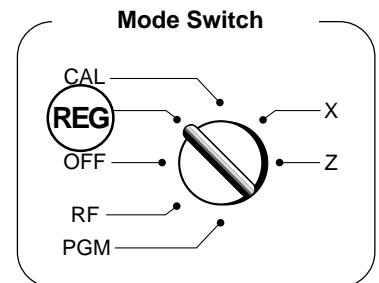
- 7% premium/discount applied to transaction total.
- For programming the [%] key as percent minus or percent plus, see page 17.
- For programming percent rate, see page 15.



Part-2

**2-7 About the daylight saving time**

It is possible to set the internal clock forward/backward by 1~9 hour(s) for the daylight saving time.



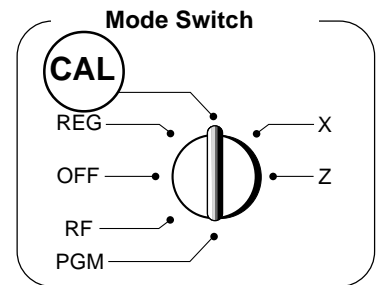
\*Put [2] ~ [9], in case of set the clock by 2~9 hours.

# Part 3

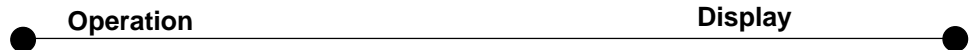
## CALCULATOR FUNCTION

### 1. Calculator Mode

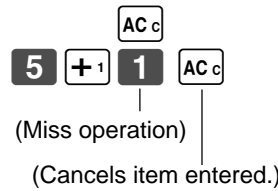
While registering at REG mode, you can switch to CAL mode and then return to REG mode to resume the registration.



#### 1-1 Calculation examples



5+3-2=



(23-56)×78=



(4×3-6)÷3.5+8=



12% on 1500



#### 1-2 Memory recall

Recalls the current amount onto the display.

- during registration: current subtotal
- registration has been completed: the last amount

##### On CAL mode

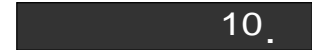


Example:

Divide the current subtotal \$30.00 at REG mode by 3 (to divide the bill between 3 people).

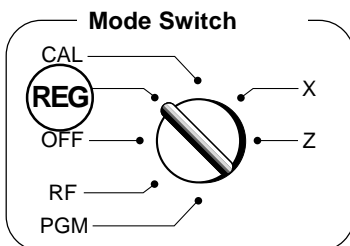


Memory recall



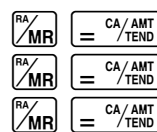
##### On REG mode

Recalls the current result by pressing [= CA/AMT/TEND] key at CAL mode on the display.

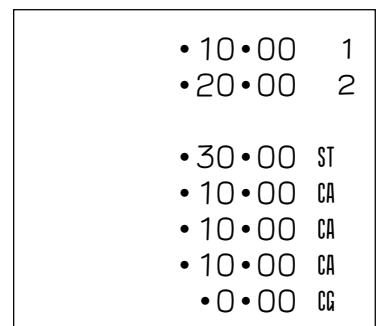


Example:

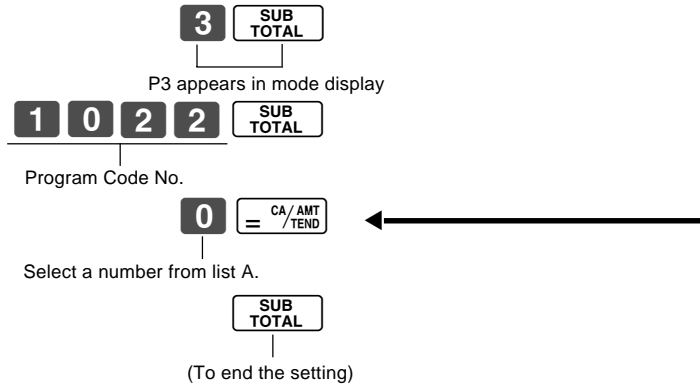
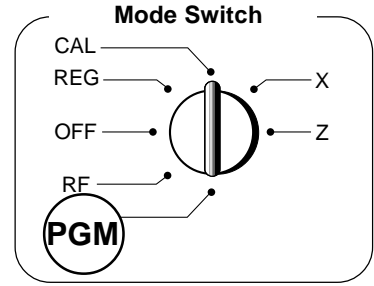
Recall the current result at CAL mode during registration, and register the cash amount due for each person.



Memory recall



**1-3 Setting for calculator operation**




			Selections	
Open drawer whenever $\frac{CA}{AMT}{TEND}$ is pressed.*			No	0
Open drawer whenever $\frac{\#}{ABS}$ is pressed.			Yes	1
Print No. of Equal key operations on General Control X and Z reports.	Yes	No	No	2
		Yes	No	3
No	No	No	No	4
		Yes	Yes	5
	Yes	No	No	6
		Yes	Yes	7

\* Drawer does not open during registration procedures even if you press  $\frac{CA}{AMT}{TEND}$  by turning the mode switch to CAL position.

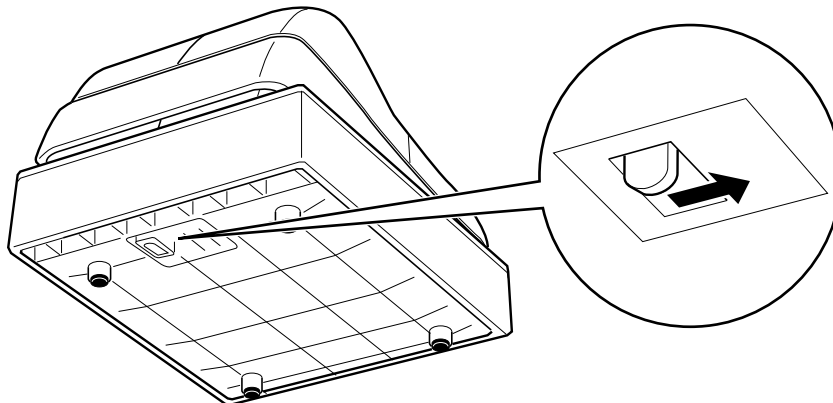
Part-3

## 1. Troubleshooting

	Symptom/Problem	Most common causes	Solutions
1	E01 appears on the display.	Changing modes without completing transaction.	Return key to where it stops buzzing and press  .
2	E94 appears on the display.	Printer paper is jammed.	Remove jammed paper. Turn Mode switch to OFF then turn to ON, or Turn power OFF and then turn power ON.
3	No date or time on receipt. Paper is not advancing enough.	Printer is programmed as a journal.	Program printer to print receipts.
4	Key won't turn to Z, X, PGM and RF modes.	Using OP key.	Use the PGM key.
5	Drawer opens up after ringing up only one time.	Department is programmed as a single item dept.	Program the dept. as a normal dept.
6	Not clearing totals at end of day after taking report.	Using X mode to take out reports.	Use Z mode to take out reports.
7	Programming is lost whenever register is unplugged or there is a power outage.	Bad or no batteries.	Put in new batteries.
8	Register is inoperative. Can't get money out of drawer.	No power.	Pull lever underneath register at rear.

### 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.



## 2. Specifications

### INPUT METHOD

Entry: 10-key system; Buffer memory 6 keys (2-key roll over)  
 Display (Digitron): Amount 8 digits (zero suppression); Department No.; No. of repeats; TOTAL; CHANGE

### PRINTER

Receipt: 12 digits (Amount 10 digits, Symbol 2 digits)  
 (or journal) Automatic paper roll winding (journal)  
 Paper roll: 58 mm × 80 mm Ø (Max.)

### CALCULATIONS

Entry 8 digits; Registration 7 digits; Total 8 digits

### CALCULATOR FUNCTION

8 digits; Arithmetic calculations; Percent calculations

### Memory protection batteries:

The effective service life of the memory protection batteries (3 UM-3, R6P (SUM-3) or LR6 (AM-3) type batteries) is approximately one year from installation into the machine.

Power source/Power consumption: See the rating plate.

Operating temperature: 0°C to 40°C (32°F to 104°F)

Humidity: 10 to 90%

Dimensions/Weight: 222 mm(H)×330 mm(W)×360 mm(D) with S drawer  
 4.2 kg with S drawer  
 237 mm(H)×400 mm(W)×450 mm(D) with M drawer  
 8 kg with M drawer

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

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.



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*Please keep all information for future reference.*





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