

# PCR-T280

## Electronic Cash Register



### User's Manual

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

**Simple to use!**

20 departments and 1200 PLUs

Automatic Tax Calculations

Calculator function

**SIAA**

ISO 22196

for KOHKIN



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**SOY INK**™

**CASIO COMPUTER CO., LTD.**

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**CASIO**®

CI  
Canada

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.

### IMPORTANT

FOR PROGRAMMING ASSISTANCE  
PLEASE VISIT

<http://casio4business.com>

#### **CASIO Authorized Service Centers**

If your CASIO product needs repair, or you wish to purchase replacement parts, please visit <http://casio4business.com>.

#### **Original Carton/Package**

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

#### **Location**

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

#### **Power Supply**

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

#### **Cleaning**

Clean the cash register exterior with a soft cloth which has been moistened with a solution of a mild neutral detergent and water, and wrung out. Be sure that the cloth is thoroughly wrung out to avoid damage to the printer.

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

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

## Safety precautions

- To use this product safely and correctly, read this manual thoroughly and operate as instructed. After reading this guide, keep it close at hand for easy reference. Please keep all informations for future reference.
- Always observe the warnings and cautions indicated on the product.

## About the icons

In this guide various icons are used to highlight safe operation of this product and to prevent injury to the operator and other personnel and also to prevent damage to property and this product. The icons and definitions are given below.



Indicates that there is a risk of severe injury or death if used incorrectly.



Indicates that injury or damage may result if used incorrectly.

## Icon examples

To bring attention to risks and possible damage, the following types of icons are used.



The  $\triangle$  symbol indicates that it includes some symbol for attracting attention (including warning). In this triangle the actual type of precautions to be taken (electric shock, in this case) is indicated.



The  $\otimes$  symbol indicates a prohibited action. In this symbol the actual type of prohibited actions (disassembly, in this case) will be indicated.



The  $\bullet$  symbol indicates a restriction. In this symbol the type of actual restriction (removal of the power plug from an outlet, in this case) is indicated.

## Warning!

### Handling the register



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

- Contact CASIO service representative.



Do not place containers of liquids near the register and do not allow any foreign matter to get into it. Should water or other foreign matter get into the register, immediately shut down the power and unplug the AC plug from the power outlet. Continued use creates the danger of short circuit, fire and electric shock.

- Contact CASIO service representative.



Should you drop the register and damage it, immediately shut down the power and unplug the AC plug from the power outlet. Continued use creates the danger of short circuit, fire and electric shock.

- Attempting to repair the register yourself is extremely dangerous. Contact CASIO service representative.



Never try to take the register apart or modify it in any way. High-voltage components inside the register create the danger of fire and electric shock.

- Contact CASIO service representative for all repair and maintenance.

### Power plug and AC outlet



Use only a proper AC electric outlet. Use of an outlet with a different voltage from the rating creates the danger of malfunction, fire, and electric shock. Overloading an electric outlet creates the danger of overheating and fire.



Make sure the power plug is inserted as far as it will go. Loose plugs create the danger of electric shock, overheating, and fire.

- Do not use the register if the plug is damaged. Never connect to a power outlet that is loose.

## INTRODUCTION

### Warning!



Use a dry cloth to periodically wipe off any dust built up on the prongs of the plug. Humidity can cause poor insulation and create the danger of electric shock and fire if dust stays on the prongs.



Do not allow the power cord or plug to become damaged, and never try to modify them in any way. Continued use of a damaged power cord can cause deterioration of the insulation, exposure of internal wiring, and short circuit, which creates the danger of electric shock and fire.

- Contact CASIO service representative whenever the power cord or plug requires repair or maintenance.



### Caution!

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



Do not place the register in the following areas.

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

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



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



Be sure to grasp the plug when unplugging the power cord from the wall outlet. Pulling on the cord can damage it, break the wiring, or cause short, creating the danger of fire and electric shock.



Never touch the plug while your hands are wet. Doing so creates the danger of electric shock. Pulling on the cord can damage it, break the wiring, or cause short, creating the danger of fire and electric shock.



At least once a year, unplug the power plug and use a dry cloth or vacuum cleaner to clear dust from the area around the prongs of the power plug.

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



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



Disposing of batteries:

Make sure that you dispose of used batteries in accordance with the rules and regulations in your local area.

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## Basic Components and Accessories



### Accessories

Roll paper	1 pc
Mode keys	OP key 2 pcs
	PGM key 2 pcs
Drawer keys	2 pcs
User's manual	1 pc
Magnetic plate*	1 pc
UM-3 type battery	2 pcs

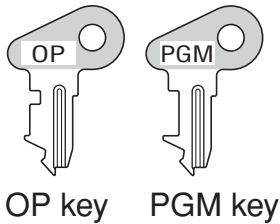
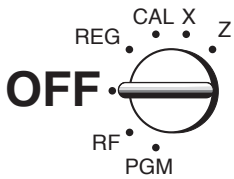
\* Use this plate for tacking the notes received from customer.

### Weld lines

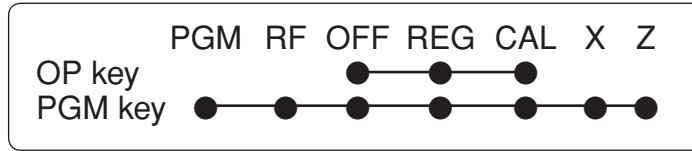
Lines may be visible on the exterior of the product. These are "weld lines" that result from the plastic molding process. They are not cracks or scratches.

# Getting to know your cash register

## Mode Switch



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



### 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)

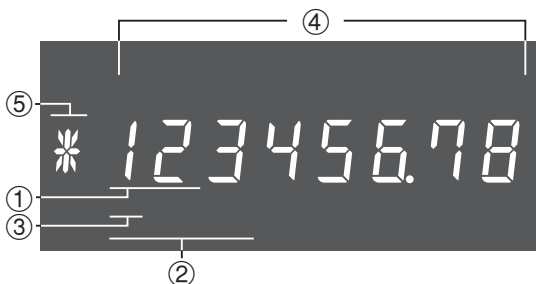
This is the position used to produce reports of daily sales totals. This setting clears the totals.

**Note:**

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

## Display

Operator display



Customer display



### ① Department Number Display

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

### ② PLU Number Display

Anytime you perform a PLU registration, the corresponding PLU number appears here.

### ③ Number of Repeat Display

Anytime you perform "repeat registration" (page 13), 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 registration (page 38).

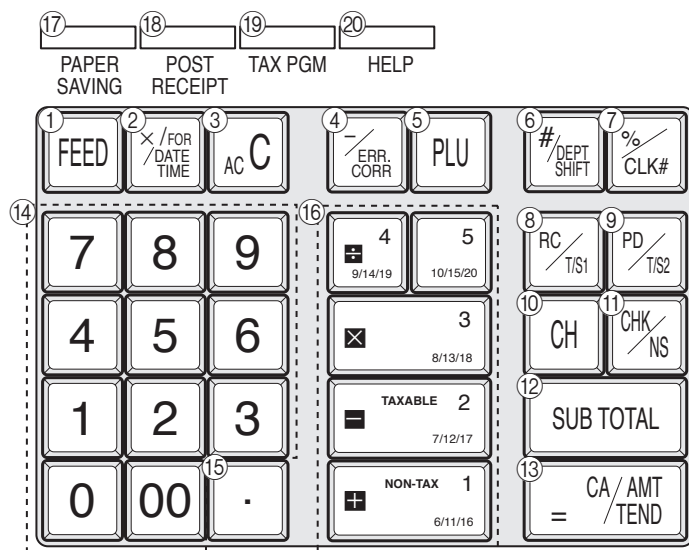
### ⑤ Character Display

In the character programming (P2) mode, it shows the last entered character.

The total (T) or change (C) appears when a subtotal, total, or change is obtained.

In the paper saving mode, it shows \*.

## 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** Feed key
- ② **X/ FOR DATE TIME** Multiplication/Split pricing/Date Time key
- ③ **AC C** Clear key
- ④ **-/ ERR CORR** Minus/Error Correction key
- ⑤ **PLU** PLU (Price Look Up) key
- ⑥ **#/ DEPT SHIFT** Reference Number/Department Shift key
- ⑦ **%/ CLK#** Percent/Cashier ID No. Assignment key
- ⑧ **RC/T/S1** Received on Account/Tax Status Shift 1 key
- ⑨ **PD/T/S2** Paid Out/Tax Status Shift 2 key
- ⑩ **CH** Charge key
- ⑪ **CHK/NS** Check/No Sale key
- ⑫ **SUB TOTAL** Subtotal key
- ⑬ **= CA/AMT/TEND** Cash Amount Tendered key
- ⑭ **0, 1, ~ 9, 00** Numeric keys and 2-zero key
- ⑮ **.** Decimal key
- ⑯ **+1, -2, x3, ÷4, 5** Department keys

- Department 6 through 20 are specified by pressing the **#/DEPT SHIFT** key respectively as follows:
  - #/DEPT SHIFT + 1** (6/11/16) ~ **#/DEPT SHIFT 5** (10/15/20) → Department 6 ~ 10
  - #/DEPT SHIFT + 1** (6/11/16) ~ **#/DEPT SHIFT 5** (10/15/20) → Department 11 ~ 15
  - #/DEPT SHIFT + 1** (6/11/16) ~ **#/DEPT SHIFT 5** (10/15/20) → Department 16 ~ 20

### ⑰ PAPER SAVING Paper saving key

Paper saving key is the key to save printing paper (Journal compressed printing/ No receipt issuing). In these cases, "\*" is lit on the character display.

### ⑱ POST RECEIPT Post receipt key

Post receipt key is used for issuing receipt after transaction. This key is effective if the printer is defined as printing receipts. Refer to page 36.

### ⑲ TAX PGM Tax Program key

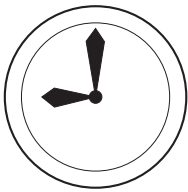
### ⑳ HELP Help key

Help key is used for issuing assistant receipts such as programming date/ time, paper installation etc.

### Calculator Mode

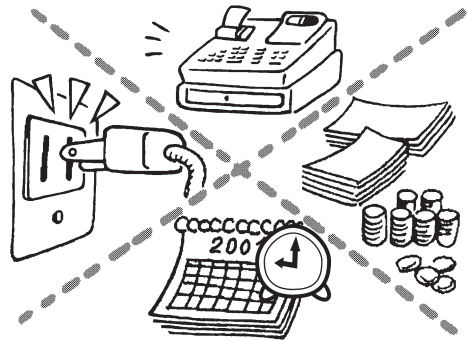
- ③ **AC c** AC key
- ⑤ **PLU** Memory Recall key
- ⑥ **%/ CLK#** Percent key
- ⑦ **CHK/NS** Drawer Open key
- ⑬ **= CA/AMT/TEND** Equal key
- ⑭ **0, 1, ~ 9, 00** Numeric keys and 2-zero key
- ⑮ **.** Decimal key
- ⑯ **+1, -2, x3, ÷4** Arithmetic Operation key

# Daily Job Flow



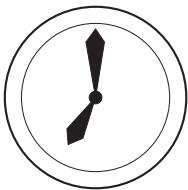
## Before Opening The Store

1. Plugged in? Page- 9
2. Enough Roll Paper? Page-38
3. Date and Time is correct? Page-39
4. Enough small change in the drawer? Page-39



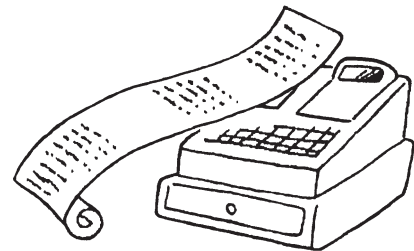
## While The Store Is Open

1. Registrations. Page-13~
2. Issuing latest daily sales total if needed.  
(Generating report by Mode Switch to X position.) Page-16



## After Closing The Store

1. Issuing Daily Sales Total.  
(Resetting report by Mode Switch to Z position.) Page-16
2. Picking up money in the drawer. Page-39
3. Turn the Mode Switch to OFF.

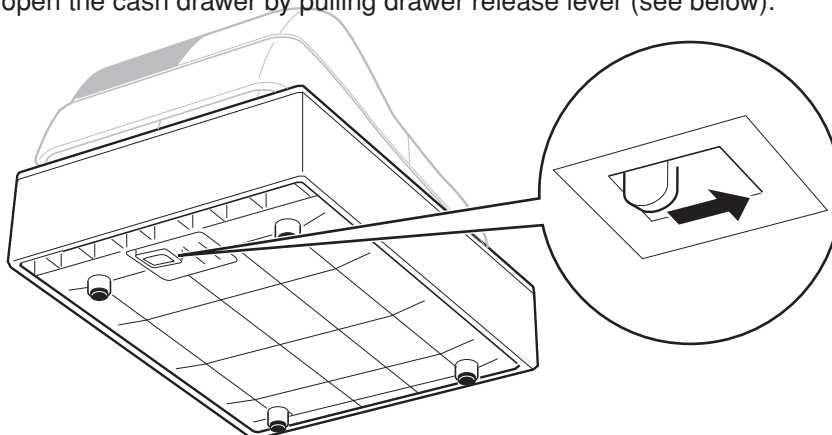


## Other

1. Troubleshooting Page-43

### 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.



## 1. Loading Memory Protection Battery

### Important

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

1. Remove the printer cover.
2. Open the battery compartment cover.
3. Load 2 new SUM-3 ("AA") 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. Replace the memory protection battery compartment cover back into place.

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



(Figure 1)

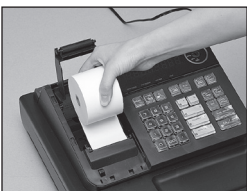
## 2. Loading Paper Roll

### To load receipt paper

- ① Open the platen arm.



- ② Ensuring the paper is being fed from the bottom of the roll, lower the roll into the space behind the paper.



- ③ Put the leading end of the paper over the printer.



- ④ Close the platen arm slowly until it locks steadily.



### CAUTION

**RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.  
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.**

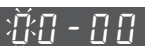
### 3. Setting the Cash Register

- ① Plug the power cord of the cash register into AC outlet.
- ② Please choose your language followed by printed message.
- ③ When the display shows blinking "0", such as



Enter current date in Month, Day, Year.

- ④ When the display shows blinking "0", such as



Enter current time in Hour, Minute.

- ⑤ Set the mode switch to REG.
- ⑥ Tear off any excess paper.



- ⑦ Replace the printer cover slowly.



\*Default printer definition is receipt printer.

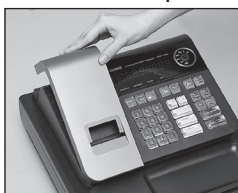
### 4. If you want to use a printer as journal printer

- ① Set printing system as journal.



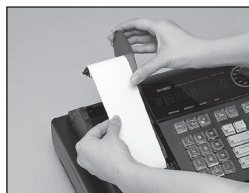
- 1 SUB TOTAL
- 1 CH

- ② Remove the printer cover by lifting up the back.



- ③ Press the FEED key until approximately 20cm of the paper is fed from the register.

- ④ Roll the paper onto the take up reel a few turns.



- ⑤ Set the left plate of the take up reel and place the reel into the register.
- ⑥ Press the FEED key to take up any slack in the paper.
- ⑦ Replace the printer cover slowly.



## 5. To remove receipt paper

- ① Open the platen arm.



- ② Remove the core of the paper.



## 6. To remove journal paper

- ① Remove the printer cover by lifting up the back.



- ② Press the **FEED** key until approximately 20cm of the paper is fed from the printer.

- ③ Cut off the roll paper.



- ④ Remove the take-up reel from the printer and take off the left plate of the reel.

- ⑤ Remove the journal paper from the take-up reel.



- ⑥ Open the platen arm.



- ⑦ Remove the core of the paper.



- ⑧ Load new paper following the instructions "1. To load journal paper".

## 7. Caution (in handling the thermal printer)

1. Never touch the printer head and platen.
2. Unpack the paper just before you use.
3. Avoid heat/ direct sunlight.
4. Avoid dusty and humid places for storage.
5. Do not scratch the paper.
6. Do not keep the paper under the following circumstances: High humidity and temperature/ direct sunlight/ contact with glue, thinner or rubber eraser.

## 8. Basic Programing for QUICK START

### 8-1 Choose the tax rate from a preset tax table.

- A) Enter **0 2** and press **HELP** .  
 B) Select your state.

- C) Enter your four digit state number and then press **HELP** .

Find your state →

```

SELECT YOUR STATE OR
COUNTRY AND ENTER
NUMBER THEN PRESS
<HELP> KEY.

0101:ALABAMA
0201:ALASKA

5001:WISCONSIN
5101:WYOMING
5201:PUERTO RICO
    
```

**0 1 0 1** **HELP**

your state number.

Follow these steps →

```

1)TURN MODE KEY TO PGM.
2)3<SUBTOTAL>
3)025<SUBTOTAL>
SET TABLE 1
4)XXXX<CA>KEY.
SET TABLE2(IF NECESSARY)
5)XXXX<CA>KEY.
6)<SUBTOTAL>
XXXX IS DISTRICT NUMBER
    
```

### 8-2 Input the desired flat tax rate to the appropriate department key. (This procedure below programs flat tax rate only. If your tax table has break points, refer to page 25 of this manual.)

- A) Turn the mode switch to PGM position.  
 B) Enter **1** and press the **SUB TOTAL** key.  
 C) Press the **TAX PGM** key.  
 D) Enter tax rate. (Example: For 6% enter "6", 5.75% enter "5.75".)  
 E) Press the appropriate department key.  
 F) Repeat step B) and C) to set other department key.  
 G) Press the **SUB TOTAL** key to end tax programming.

Note: In case of setting the wrong tax rate to the key, please enter **0** and press those department keys above, and quit this procedure by pressing **SUB TOTAL** key, and start from the beginning of this procedure. Please start with the department 2 key (taxable department). Department 1 key is initialized as non taxable.

#### Example 1:

Set state tax 4% to department 2, 3 key.

**TAX PGM** Start tax program.

**4** **- 2** Enter tax rate and press dept key.

**4** **x 3** Enter tax rate and press dept key.

**SUB TOTAL** To end the setting.

#### Example 2:

Set state tax 5% to department 2 and 7% to department 3 key.

**TAX PGM** Start tax program.

**5** **- 2** Enter tax rate and press dept key.

**7** **x 3** Enter tax rate and press dept key.

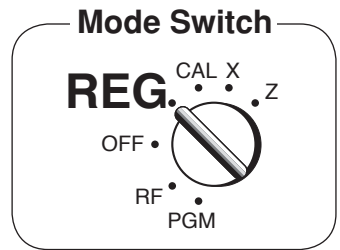
**SUB TOTAL** To end the setting.

**Note :** For canadian tax system, see page 25 for more information.

## 9. Basic Operation after Basic Programming

### Note:

Whenever an error is generated, the input figures reset to 0. All printout samples are journal images and the header (date, time and consecutive no.) are eliminated from the samples.



Part-1



### 9-1 Open the drawer without a sale



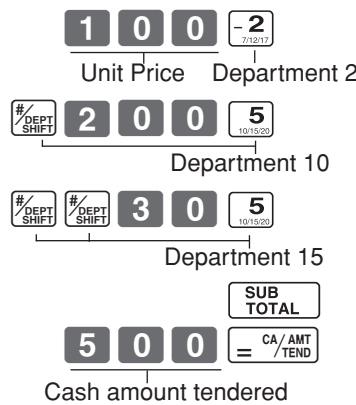
```
01-08-2010    08:55
REG            0001
NS            . . . . .
```

No Sales Symbol

### 9-2 Basic operation

Example

Unit Price	\$1.00	\$2.00	\$0.30
Quantity	1	1	1
Dept.	2	10	15
Cash Amount tendered	\$5.00		



```
01-08-2010    09:00
REG            0002
DEPT02    T1    $1.00
DEPT10    T1    $2.00
DEPT15    T1    $0.30
TA1            $1.00
TAX1            $0.04
TOTAL            $3.04
CASH            $5.00
CHANGE         $1.66
```

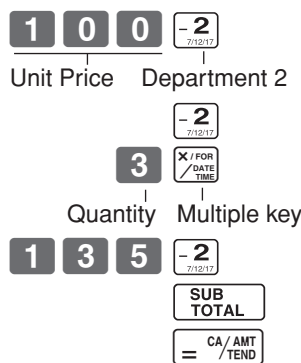
Department Name/Unit Price  
Taxable Subtotal  
Tax  
Subtotal  
Cash Amount Tendered  
Change Amount Due

Departments 6 through 10, 11 through 15, 16 through 20 can also be registered in combination with the #/DEPT SHIFT and [+1], [-2], [x3], [+4] or [5] keys, respectively. The #/DEPT SHIFT key should be entered just before entering unit price manually.

### 9-3 Multiple registration on the same items

Example

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



```
01-08-2010    09:10
REG            0003
DEPT02    T1    $1.00
DEPT02    T1    $1.00
           3 X    @1.35
DEPT02    T1    $4.05
TA1            $6.05
TAX1            $0.24
CASH            $6.29
```

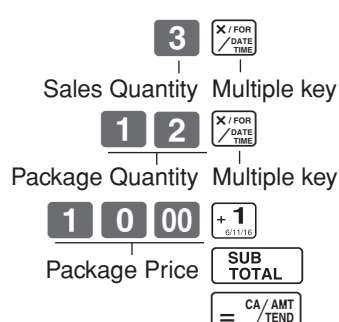
Repeat  
Sales Quantity/Unit Price

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

### 9-4 Split sales of packaged items

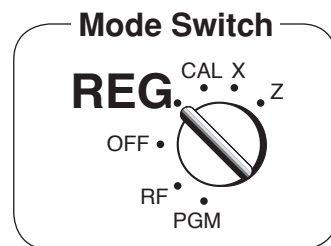
Example

Unit Price	\$10.00/12
Quantity	3
Dept.	1



```
01-08-2010    09:15
REG            0004
           3 X
           12 /    @10.00
DEPT01            $2.50
CASH            $2.50
```

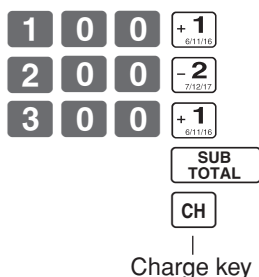
Sales Quantity  
Package Quantity/  
Unit Price



### 9-5 Charge sales

Example

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



Printout

01-08-2010	09:30
REG	0005
DEPT01	\$1.00
DEPT02 T1	\$2.00
DEPT01	\$3.00
TA1	\$2.00
TAX1	\$0.08
CHARGE	\$6.08

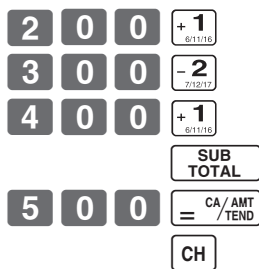
Charge Sales

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

### 9-6 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		



Printout

01-08-2010	09:50
REG	0007
DEPT01	\$2.00
DEPT02 T1	\$3.00
DEPT01	\$4.00
TA1	\$3.00
TAX1	\$0.12
TOTAL	\$9.12
CASH	\$5.00
CHARGE	\$4.12

Cash Amount Tendered  
Charge Sales

### 9-7 Corrections

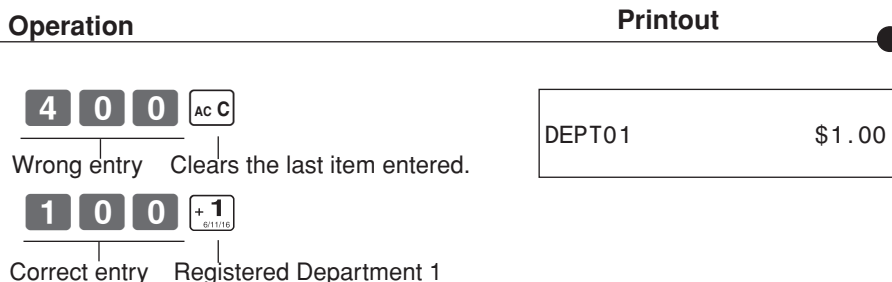
Corrections can be made while you are registering the item (before you press a department key), or after it has already been registered into the memory (by pressing a department key).

#### 9-7-1 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**

**Printout**

2. Entered unit price first instead of quantity and then pressed

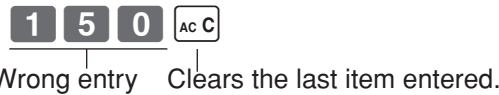


Clears the last item entered.



5 X	@2.00
DEPT02 T1	\$10.00

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



10 X	@1.05
DEPT03	\$10.50

**9-7-2 After you pressed a department key**



**key cancels the last registered item.**

**Example**

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



Cancels the last item registered.



Registered Department 1

DEPT01	\$5.50
ERR CORR	-5.50
DEPT01	\$5.05

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



Cancels the last item registered.



Registered Department 2

3 X	@2.20
DEPT02 T1	\$6.60
ERR CORR	-6.60
3 X	@2.30
DEPT02 T1	\$6.90

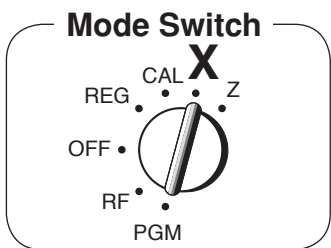
## 10. Daily Management Report

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.

### 10-1 Financial Report



Operation

Printout



01-08-2010	16:50	
X	0131	
<b>FLASH X</b>		
GROSS TOTAL	QT 67	
	\$270.48	
NET TOTAL	No 36	
	\$271.24	
CASH - INDW	\$197.57	
CHARGE - INDW	\$18.19	
CHECK - INDW	\$45.18	

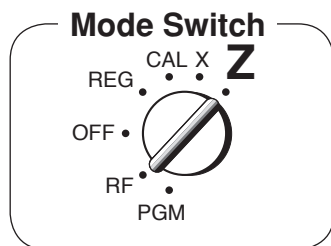
Read Symbol  
Gross Sales No. of Items  
Gross Sales Amount  
Net Sales No. of Customers  
Net Sales Amount  
Cash Total in Drawer  
Charge Total in Drawer  
Check Total in Drawer

### 10-2 Read/Reset Report

#### 10-2-1 Daily Read/Reset Report

Mode Switch to **(X)** (Read)

Mode Switch to **(Z)** (Reset)



Operation

Printout


Z (Reset) report



01-08-2010	19:35	
Z	0173	
0000 <b>DAILY</b>	Z 0012	
DEPT01	QT 48	
	\$50.10	
DEPT02	QT 28	
	\$76.40	
DEPT03	QT 17	
	\$20.00	
DEPT20	QT 29	
	\$3.00	
-----		
GROSS TOTAL	QT 108	
	\$316.80	
NET TOTAL	No 46	
	\$325.13	
CASH - INDW	\$199.91	
CHAREG - INDW	16.22	
CHECK - INDW	\$105.00	
TA1	\$105.10	
TAX1	\$4.20	
TA2	\$75.60	
TAX2	\$3.97	
RF - MODE TTL	No 2	
	\$0.50	

Date/Time  
Consecutive No.  
Non-resettable Sales No. of Resets\*/RESET Symbol\*<sup>1</sup>  
Dept. Name/No. of items Amount  
Gross Sales No. of Items  
Gross Sales Amount  
Net Sales No. of Customers  
Net Sales Amount  
Cash in Drawer  
Charge in Drawer  
Check in Drawer  
Taxable Amount 1  
Tax Amount 1  
Taxable Amount 2  
Tax Amount 2  
RF Mode Count  
RF Mode Amount



CALCULATOR	No	3	No. of  key operation in CAL mode
CASH	No	44	Cash Sales Count
		\$203.91	Cash Sales Amount
CHARGE	No	3	Charge Sales Count
		\$16.22	Charge Sales Amount
CHECK	No	2	Check Sales Count
		\$105.00	Check Sales Amount
RC		\$6.00	Received on Account Amount
PD		\$10.00	Paid Out Amount
-		\$0.50	Reduction Amount
%-		\$0.66	Premium/Discount Amount
ERR CORR	No	21	Error Correction Count
NS	No	12	No-sales Count
CLERK01		\$325.13	Clerk 1 Sales Amount (Refer to 2-10 Cashier Assignment)
GT		\$0,000,832,721.20	Non-resettable Grand Sales Total (printed only on RESET report)* <sup>2</sup>

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

### 10-2-2 Periodic Read/Reset Report



Mode Switch to **Z** or **X**

**1 0** 

01-10-2010	20:35	Date/ Time
Z	0365	Consecutive No.
0010 PERIODIC	ZZ 0001	Periodic Reset Symbol
GROSS TOTAL	QT 67	Gross Sales No. of Items
	\$270.73	Gross Sales Amount
NET TOTAL	No 38	Net Sales No. of Customers
	\$271.24	Net Sales Amount



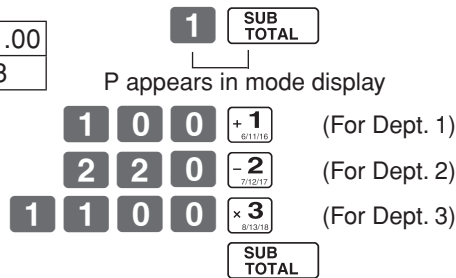
# CONVENIENT OPERATION

## 1. Various Programming

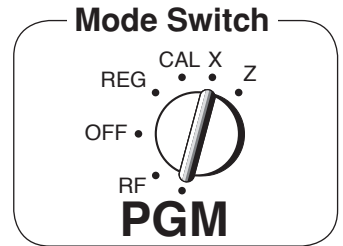
### 1-1 Unit price for Departments

Example

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



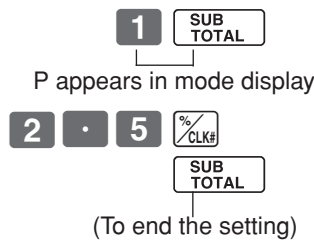
• Unit prices within the range of 0.01~9999.99.



### 1-2 Rate for percent key

Example

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



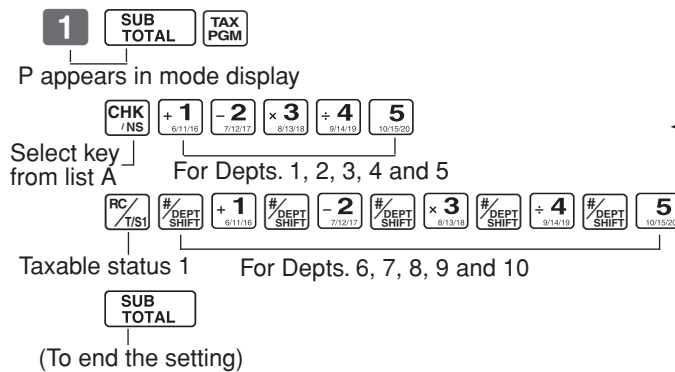
• The rate within the range of 0.01 to 99.99%.

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

Tax status for the Departments are fixed as follows:  
 Department 2: Taxable status 1.  
 Departments 1, 3~20: Non-Taxable status.

Example

Status	Non-Taxable	Taxable
Dept.	1 ~ 5	6 ~ 10

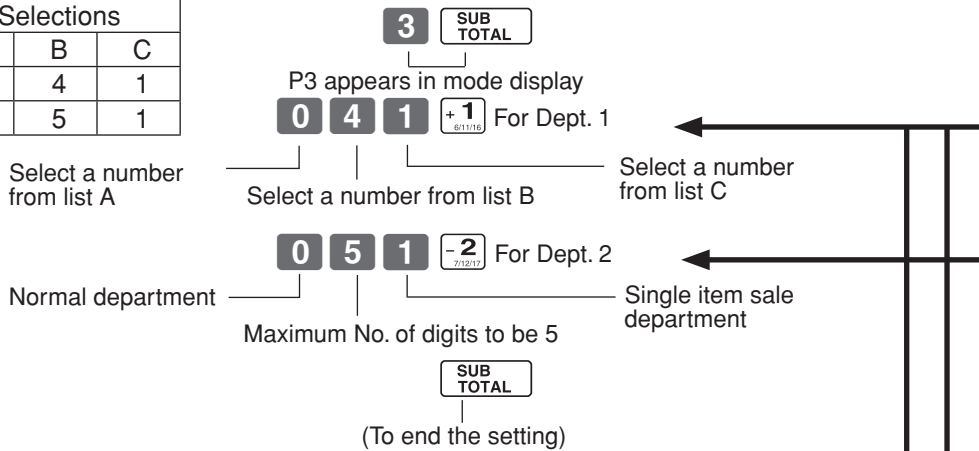


Selections	
Taxable status 1	RC / T/S1
Taxable status 2	PD / T/S2
Taxable status 1 and 2	RC / T/S1 PD / T/S2
Taxable status 3	X / FRR / O/SR / T/S3
Taxable status 4	CH
Non-taxable status	CHK / NS

### 1-4 Status for Department

Example

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



Selections		
Normal department	0	A
Minus department	1	
No limitation for manually entered price.(7digits)	0	B
Maximum number of digits for manually entered price. (1 ~ 7 digits)	1 ~ 7	
To prohibit manual price entries.	8 or 9	
Normal sales (not a single-item sale) department	0	C
Set as a single-item sale department	1	

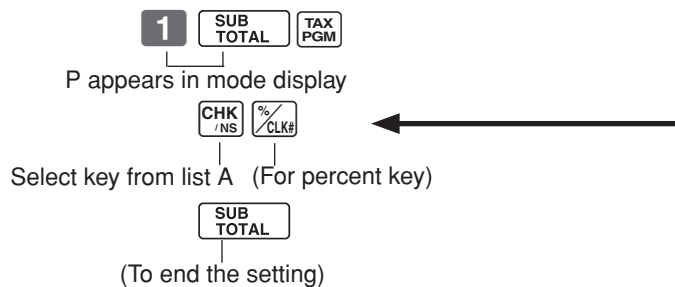
Part-2

### 1-5 Status for percent key

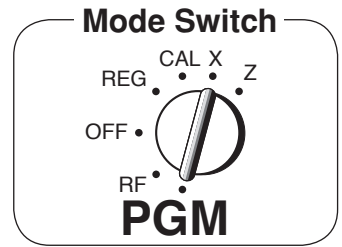
#### 1-5-1 To change taxable status for the percent key

The percent key is initialized as Taxable status 1.

Example  
Change Percent key registration as a Non-taxable.



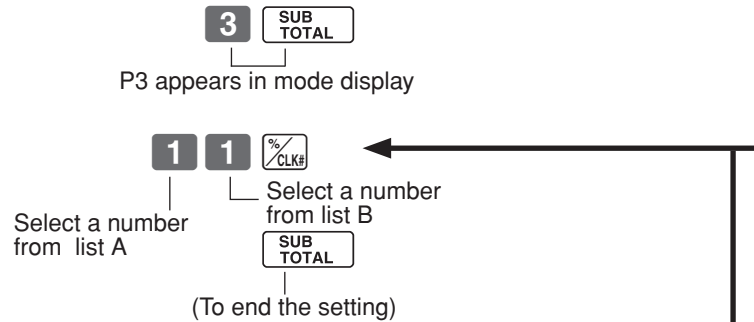
Selections		
Taxable status 1	RC/TIS1	A
Taxable status 2	PD/TIS2	
Taxable status 1 and 2	RC/TIS1 PD/TIS2	
Taxable status 3	X/ FOR DATE TIME	
Taxable status 4	CH	
All-taxable	RC/TIS1 PD/TIS2 X/ FOR DATE TIME CH	
Non-taxable status	CHK/NS	



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

Example

Round	Up
Percent	%+



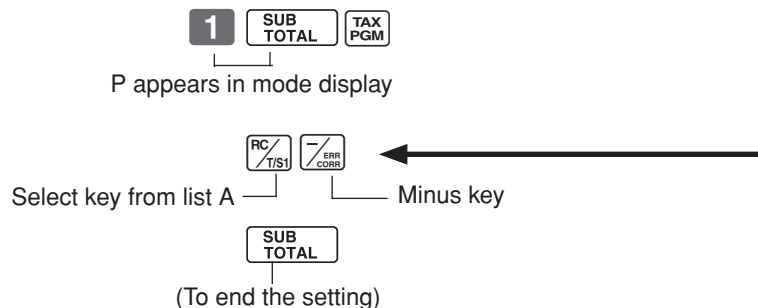
Selections		
Rounding of results produced by Percent Key operation.		
Round off (1.544=1.54; 1.545=1.55)	0	A
Cut off (1.544=1.54; 1.545=1.54)	1	
Round up (1.544=1.55; 1.545=1.55)	2	
Program Percent Key to register discounts (%-).	0	B
Program Percent Key to register premiums (%+).	1	
Program Percent Key to function as a Manual Tax key.	2	

**1-6 Taxable Status for minus key**

The minus key is initialized as Non-taxable.

Example

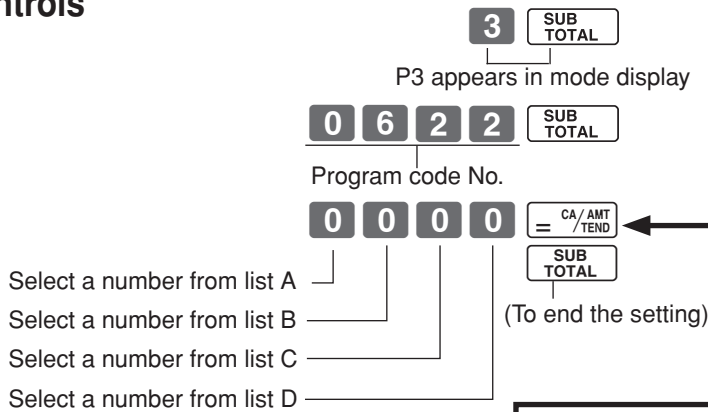
Change minus key registrations as a taxable status 1.



Selections		
Taxable status 1	RC/T/S1	A
Taxable status 2	PD/T/S2	
Taxable status 1 and 2	RC/T/S1 PD/T/S2	
Taxable status 3	X/ FOR DATE TIME	
Taxable status 4	CH	
All-taxable	RC/T/S1 PD/T/S2 X/ FOR DATE TIME CH	
Non-taxable status	CHK/NS	

## 1-7 General features

### 1-7-1 To set general controls



		Selections	
Key catch tone.			
Yes		0	A
No		4	

		Selections	
Maintain key buffer during receipt issue in REG mode.			
No	Yes	Yes	0
		No	1
No	Yes	Yes	2
		No	3
Yes	Yes	Yes	4
		No	5
Yes	Yes	Yes	6
		No	7

		Selections	
Time displays with second.			
Allow split cash amount tendered.			
Yes	Yes	No	0
		Yes	1
No	No	No	2
		Yes	3
No	Yes	No	4
		Yes	5
No	No	No	6
		Yes	7

		Selections	
Use the 00 key as a 000 key.			
Cashier assignment systems (sign on) is used.			
No	No		0
	Yes		1
Yes	No		2
	Yes		3

Part-2

## Part-2 CONVENIENT OPERATION

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

**Mode Switch**  
 REG. CAL X Z  
 OFF •  
 RF •  
**PGM**

3 SUB TOTAL  
 P3 appears in mode display

0 5 2 2 SUB TOTAL  
 Program code No.

0 0 0 0 = CA / AMT / TEND

Select a number from list A →  
 Always "0" →  
 Select a number from list B →  
 Select a number from list C →

**Selections**

Use the printer to print receipts = R			
Use the printer to print a journal = J			
Print receipt by single/ double height characters.			
Print Total line at finalization			
No	Single	R	0
		J	1
	Double	R	2
		J	3
Yes	Single	R	4
		J	5
	Double	R	6
		J	7

A

**Selections**

Print the time on the receipt and journal.			
Yes		0	B
No		4	

**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	2
	Yes	No	3
		Yes	4
		No	5
Yes	No	Yes	6
		No	7
	Yes	No	7

C

### 1-7-3 To set report printing controls

3 SUB TOTAL  
 P3 appears in mode display

0 8 2 2 SUB TOTAL  
 Program code No.

0 0 = CA / AMT / TEND

Select a number from list A →  
 Select a number from list B →

**Selections**

Print RF switch mode refund count/ amount on the Read/Reset Reports.			
Yes		0	A
No		1	

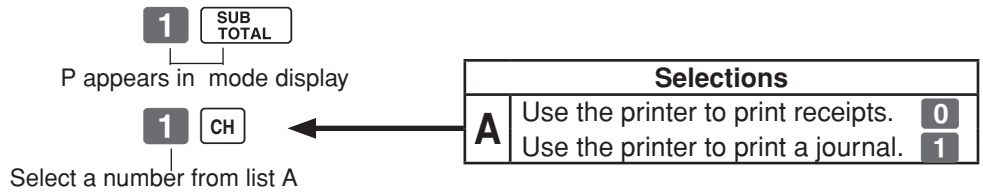
**Selections**

Print zero-total line on the Daily Read/Reset Reports			
Print the grand sales total on the Daily Reset Reports.			
Yes	No	0	B
	Yes	1	
	No	2	
No	No	3	
	Yes	3	
	Yes	3	

### 1-7-4 Printer switch for Receipt or Journal

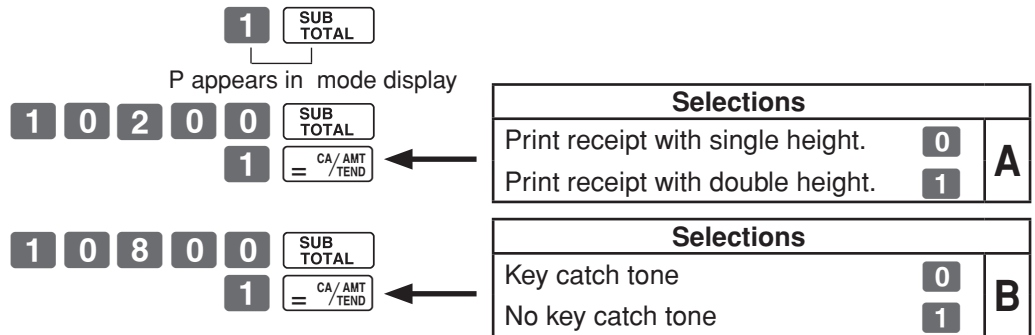
The printer is initialized as receipt.

Example  
To print a journal.



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

### 1-7-5 Receipt printing character/ key catch tone



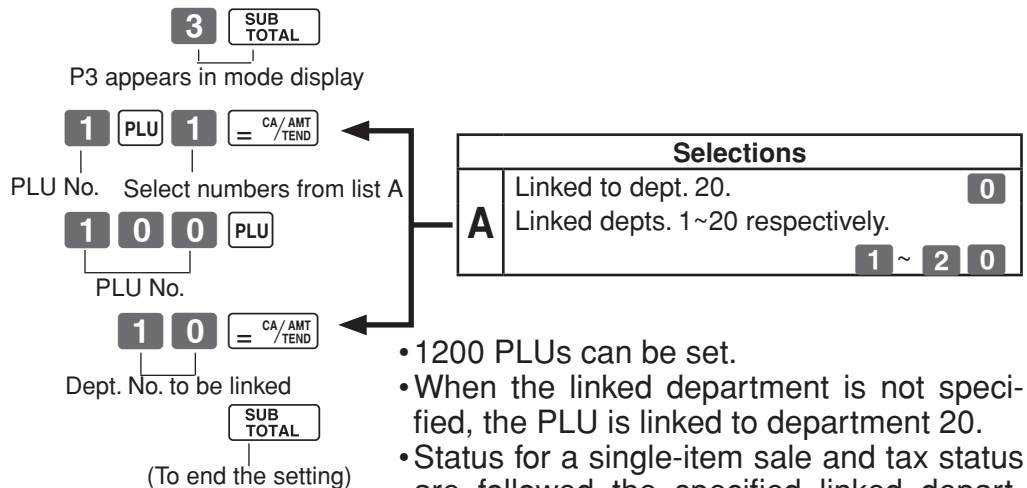
Part-2

## 1-8 PLU setting

### 1-8-1 Linkage with Departments

Example

PLU No.	1	100
Link Dept. No	1	10



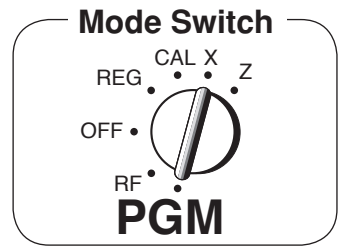
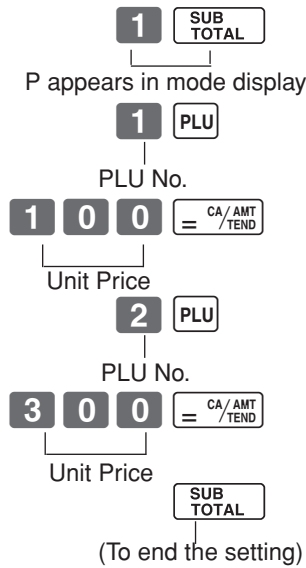
- 1200 PLUs can be set.
- When the linked department is not specified, the PLU is linked to department 20.
- Status for a single-item sale and tax status are followed the specified linked department.

## Part-2 CONVENIENT OPERATION

### 1-8-2 Unit Prices for PLUs

Example

PLU No.	1	2
Unit Price	\$1.00	\$3.00

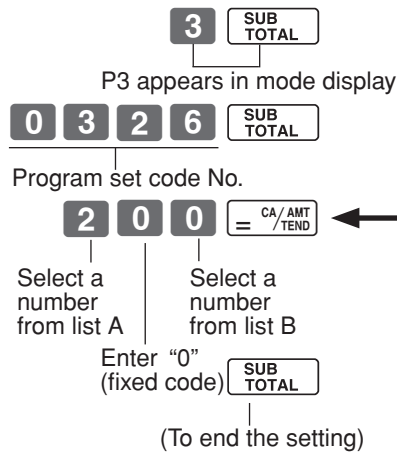


•Unit prices within the range of \$0.01~9999.99.

### 1-9 To control Tax Status printing

Example

Do not print Tax status symbol.



Selections		
Print Tax status symbols.	0	A
Do not print Tax status symbols.	2	

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

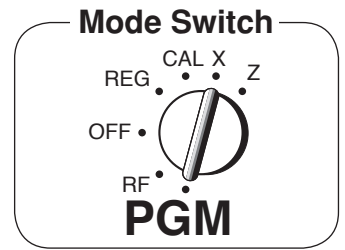


## 1-10 To program Tax Table

### 1-10-1 Canadian Tax Table

#### Type 1

Choose the tax rate from a preset tax table for British Columbia, Manitoba, Ontario, Prince Edward Island, Quebec and Saskatchewan.



- A) Enter **0 2** and press **HELP**.
- B) Select your state.

Note: Taxable status of department 2 key will be set as T/S1&2.

#### Type 2 and 3

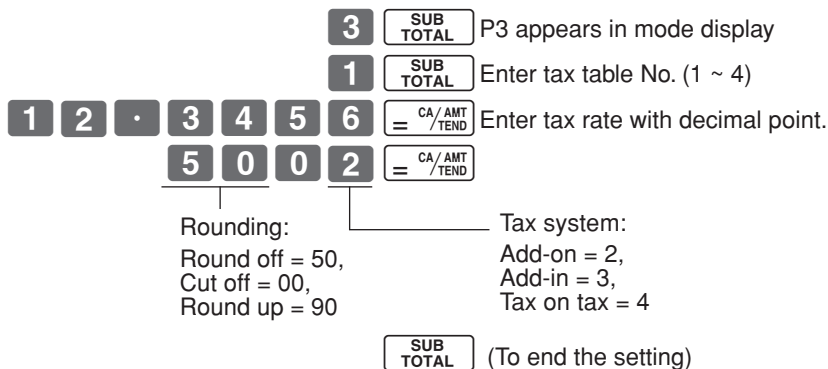
**Except above state, use flat tax rate as follows;**

- A) Turn the key to “PGM” position.
- B) Press **TAX PGM** key.
- C) For Alberta, North West Territory, Nunnavut Territory and Yukon Territory.  
Enter 5 (tax rate) and press appropriate department key. (Tax rate is as of 2009/April)
- D) For New Brunswick, Newfoundland&Labrador and Nova Scotia. Enter 13(tax rate) and press appropriate department key. (Tax rate is as of 2009/April)
- E) Press **SUB TOTAL** to end tax programming.

Note: In case of setting the wrong tax rate to the key, please enter **0** and press those department keys above, and quit this procedure by pressing **SUB TOTAL** key, and start from the beginning of this procedure.

Please start with the department 2 key (taxable department).  
Department 1 key is initialized as non taxable.

### 1-10-2 When New Tax Table is publicized. (Canadian)



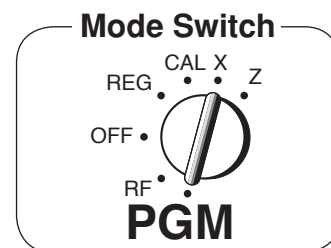
4 tax tables are used for the following purpose.

- Table 1: Used for the federal taxable items.
- Table 2: Used for the provincial taxable items.
- Table 3/4: Used for the provincial taxable items for different tax table.

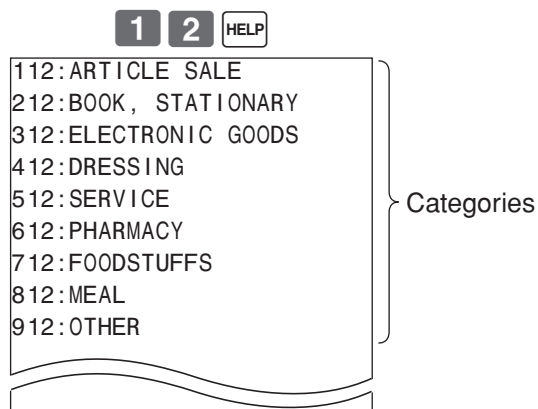
## Part-2 CONVENIENT OPERATION

### 1-11 To program department, PLU, clerk name, receipt message

**1-11-1 Simple character list for**  You can set department and PLU name by using a simple character list for



#### 1-1. Issue category list.



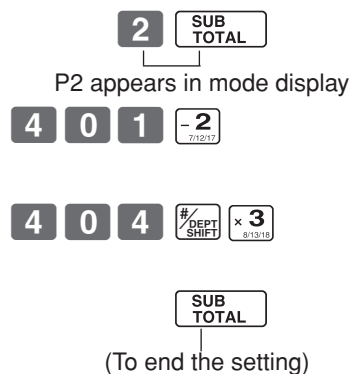
#### 1-2. Issue simple character list.



#### 2-1. Programming department name.

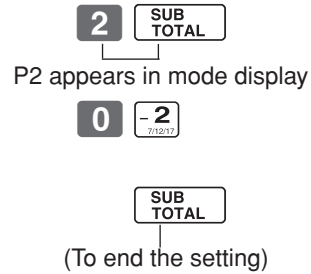
Example

Department	2	8
Name	JEWELRY	SHOES
Character code	401	404



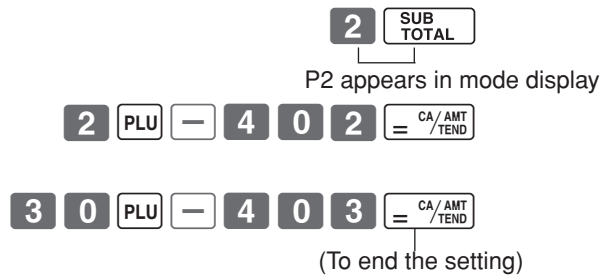
**2-2. Reset department name.**

Department	2
Name	DEPT01
Character code	0



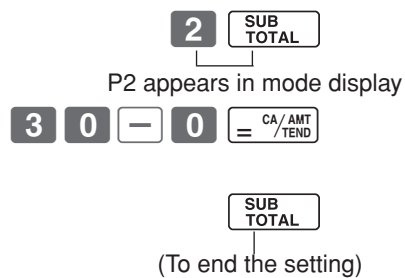
**2-3. Programming department PLU**

PLU(1-1200)	2	30
Name	CLOTHING	UMBRELLA
Character code	402	403



**2-4. Reset PLU name.**

PLU(1-1200)	30
Name	PLU0030
Character code	0

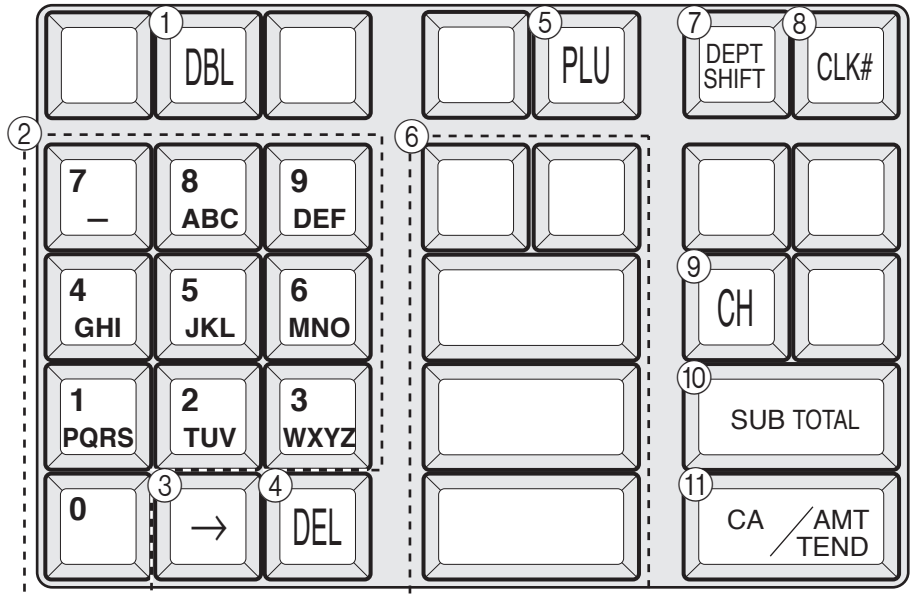


## Part-2 CONVENIENT OPERATION

### 1-11-2 Character keyboard

In the PGM 2 mode, the keyboard becomes character setting keyboard illustrated below after specifying a department, a PLU, or a clerk.

- ① Double size key  
Use this key to specify the next character to a double sized character. You must press this key before each double sized character.
- ② Alphabet keys  
Use these keys to input characters. Refer to the next page to enter characters.
- ③ Right arrow key  
Use this key to input the character located on the same alphabet key. This key is also used for inputting a space.
- ④ Delete key  
Use this key to delete character just entered.
- ⑤ PLU key  
Use this key to input PLU code.
- ⑥ Department keys  
Use this key to specify department.
- ⑦ Department shift key  
Use this key to shift department.
- ⑧ Clerk number key  
Use this key to input clerk number.



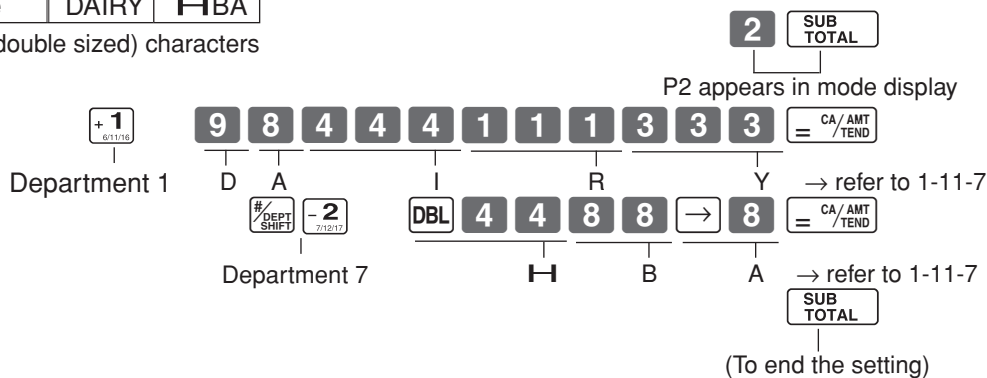
- ⑨ Receipt message number key (CH key).  
Use this key to program receipt message.
- ⑩ Program end key (SUB TOTAL key).  
Use this key to terminate character programming.
- ⑪ Character program key (CA/AMT TEND key).  
Use this key to program the PLU / clerk characters just entered before.

### 1-11-3 Programming department name

#### Example

Department	1	7
Name	DAIRY	HBA

up to 8 (4 double sized) characters

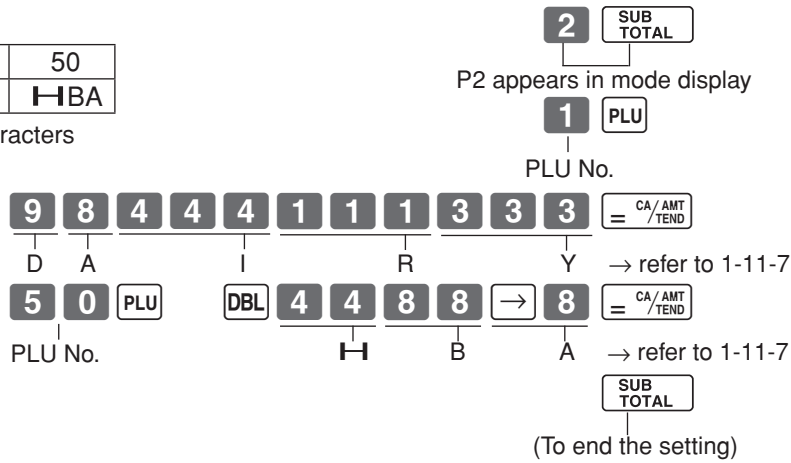


### 1-11-4 Programming PLU name

**Example**

PLU (1 ~ 1200)	1	50
Name	DAIRY	HBA

up to 8 (4 double sized) characters

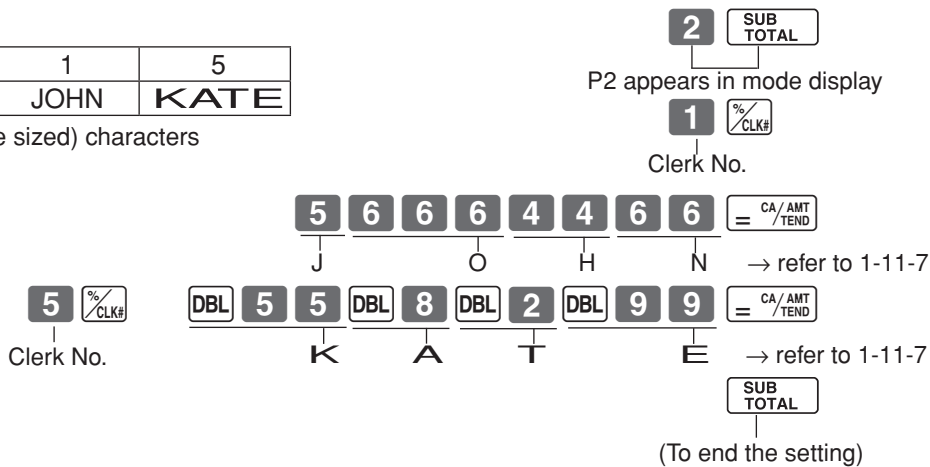


### 1-11-5 Programming clerk name

**Example**

Clerk (1~ 8)	1	5
Name	JOHN	KATE

up to 8 (4 double sized) characters

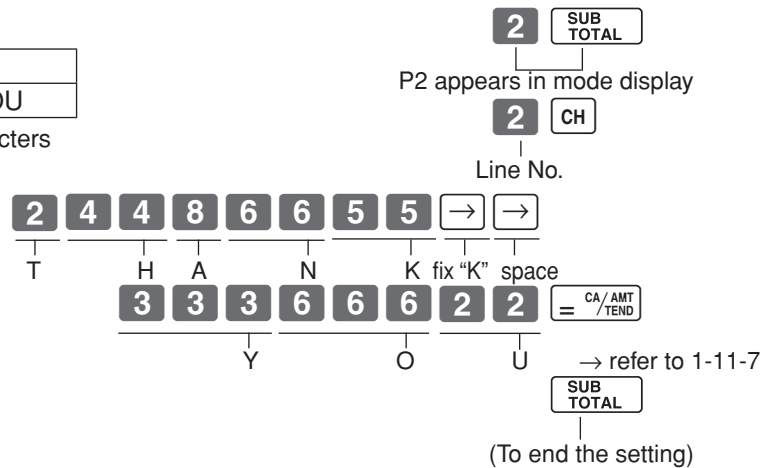


### 1-11-6 Programming receipt message

**Example**

Line (1 ~ 5)	2
Message	THANK YOU

up to 24 (12 double sized) characters



## Part-2 CONVENIENT OPERATION

### 1-11-7 Alphabetical order

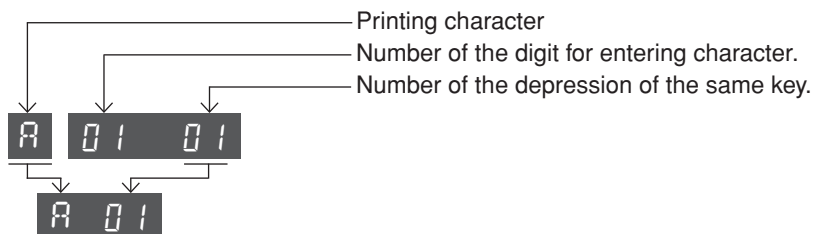
Characters are assigned to each numeric key. You can enter "A" by pressing **8** once, "B" twice, "C" three times ...

The following tables indicate character assignment and the depression numbers of the key to enter the appropriate character.

<b>A, B, C, a, b, c, 8, ...</b>  <b>8</b> key	: <b>A</b> → <b>B</b> → <b>C</b> → <b>a</b> → <b>b</b> → <b>c</b> → <b>8</b> → <b>A</b> 01 <b>B</b> 02 <b>C</b> 03 <b>a</b> 04 <b>b</b> 05 <b>c</b> 06 <b>8</b> 07
	→ <b>Ä</b> → <b>Å</b> → <b>Æ</b> → <b>Á</b> → <b>Â</b> → <b>Ã</b> → <b>Ä</b> → <b>A</b> 08 <b>A</b> 09 <b>A</b> 10 <b>A</b> 11 <b>A</b> 12 <b>A</b> 13 <b>A</b> 14
	→ <b>Ç</b> → <b>à</b> → <b>á</b> → <b>â</b> → <b>ã</b> → <b>ä</b> → <b>å</b> → <b>C</b> 15 <b>a</b> 16 <b>a</b> 17 <b>a</b> 18 <b>a</b> 19 <b>a</b> 20 <b>a</b> 21
	→ <b>ä</b> → <b>ç</b> → returns to the beginning <b>a</b> 22 <b>c</b> 23
<b>D, E, F, d, e, f, 9, ...</b>  <b>9</b> key	: <b>D</b> → <b>E</b> → <b>F</b> → <b>d</b> → <b>e</b> → <b>f</b> → <b>9</b> → <b>D</b> 01 <b>E</b> 02 <b>F</b> 03 <b>d</b> 04 <b>e</b> 05 <b>f</b> 06 <b>9</b> 07
	→ <b>Ð</b> → <b>É</b> → <b>Ê</b> → <b>Ë</b> → <b>È</b> → <b>Ï</b> → <b>ê</b> → <b>D</b> 08 <b>E</b> 09 <b>E</b> 10 <b>E</b> 11 <b>E</b> 12 <b>d</b> 13 <b>e</b> 14
	→ <b>ê</b> → <b>ë</b> → <b>è</b> → <b>f</b> → returns to the beginning <b>e</b> 15 <b>e</b> 16 <b>e</b> 17 <b>f</b> 18
<b>G, H, I, g, h, i, 4, ...</b>  <b>4</b> key	: <b>G</b> → <b>H</b> → <b>I</b> → <b>g</b> → <b>h</b> → <b>i</b> → <b>4</b> → <b>G</b> 01 <b>H</b> 02 <b>I</b> 03 <b>g</b> 04 <b>h</b> 05 <b>i</b> 06 <b>4</b> 07
	→ <b>Ġ</b> → <b>Ĥ</b> → <b>İ</b> → <b>I</b> → <b>i</b> → <b>İ</b> → <b>î</b> → <b>I</b> 08 <b>I</b> 09 <b>I</b> 10 <b>I</b> 11 <b>I</b> 12 <b>i</b> 13 <b>i</b> 14
	→ <b>î</b> → <b>ï</b> → <b>l</b> → returns to the beginning <b>i</b> 15 <b>i</b> 16 <b>i</b> 17
<b>J, K, L, j, k, l, 5,</b>  <b>5</b> key	: <b>J</b> → <b>K</b> → <b>L</b> → <b>j</b> → <b>k</b> → <b>l</b> → <b>5</b> → <b>J</b> 01 <b>K</b> 02 <b>L</b> 03 <b>j</b> 04 <b>k</b> 05 <b>l</b> 06 <b>5</b> 07
	→ returns to the beginning
<b>M, N, O, m, n, o, 6, ...</b>  <b>6</b> key	: <b>M</b> → <b>N</b> → <b>O</b> → <b>m</b> → <b>n</b> → <b>o</b> → <b>6</b> → <b>M</b> 01 <b>N</b> 02 <b>O</b> 03 <b>m</b> 04 <b>n</b> 05 <b>o</b> 06 <b>6</b> 07
	→ <b>Ñ</b> → <b>Ö</b> → <b>Ø</b> → <b>Ó</b> → <b>Ô</b> → <b>Õ</b> → <b>Ö</b> → <b>N</b> 08 <b>O</b> 09 <b>O</b> 10 <b>O</b> 11 <b>O</b> 12 <b>O</b> 13 <b>O</b> 14
	→ <b>ñ</b> → <b>ô</b> → <b>ö</b> → <b>ò</b> → <b>ø</b> → <b>ó</b> → <b>õ</b> → <b>m</b> 15 <b>o</b> 16 <b>o</b> 17 <b>o</b> 18 <b>o</b> 19 <b>o</b> 20 <b>o</b> 21
	→ returns to the beginning

<b>P, Q, R, S,</b> <b>p, q, r, s,</b> <b>1, ...</b> <b>1</b> key	: P → Q → R → S → p → q → r → P 01 Q 02 R 03 S 04 p 05 q 06 r 07
	→ s → 1 → p → b → β → returns to the beginning s 08 1 09 P 10 p 11 s 12
<b>T, U, V,</b> <b>t, u, v,</b> <b>2, ...</b> <b>2</b> key	: T → U → V → t → u → v → 2 → T 01 U 02 V 03 t 04 u 05 v 06 2 07
	→ Ū → Ū → Ū → Ū → Ū → Ū → Ū → U 08 U 09 U 10 U 11 u 12 u 13 u 14
	→ Ū → μ → returns to the beginning u 15 u 16
<b>W, X, Y, Z,</b> <b>w, x, y, z,</b> <b>3, ...</b> <b>3</b> key	: W → X → Y → Z → w → x → y → W 01 X 02 Y 03 Z 04 w 05 x 06 y 07
	→ z → 3 → ŷ → ŷ → ŷ → returns to the beginning z 08 3 09 y 10 y 11 y 12
<b>0</b> <b>0</b> key	: 0 → returns to the beginning 0 01
<b>7, Symbols, ...</b> <b>7</b> key	: ? → @ → - → / → : → ! → ? → ? 01 @ 02 - 03 / 04 : 05 ! 06 ? 07
	→ ~ → ( → ) → * → # → + → , → ~ 08 ( 09 ) 10 * 11 # 12 + 13 , 14
	→ ^ → ; → < → = → > → \$ → ¥ → ^ 15 ; 16 < 17 = 18 > 19 \$ 20 ¥ 21
	→ % → & → [ → ] → ' → { →   → % 22 & 23 [ 24 ] 25 ' 26 { 27   28
	→ } → . → " → . → \ → _ → ` → } 29 . 30 " 31 . 32 \ 33 _ 34 ` 35
	→ £ → × → ÷ → i → € → § → space → £ 36 × 37 ÷ 38 i 39 € 40 § 41 space 42
→ returns to the beginning	

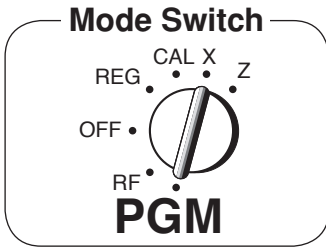
Cf.



## Part-2 CONVENIENT OPERATION

### 1-12 Printing to read All Preset Data

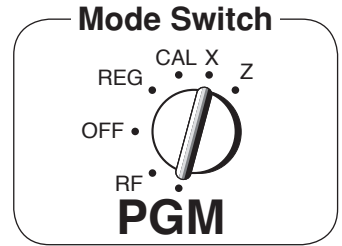
#### 1-12-1 Printing preset data except PLU settings



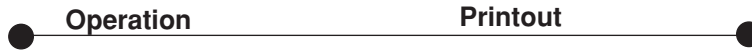
Operation	Printout
DEPT01	@1.00 Dept. Name/Unit Price
	0000 Tax Status/Normal Dept./Digit Limit/Single Item
DEPT02	@10.00
	0000
DEPT20	@5.00
	0000
-	Minus/Tax Status
%- (12.34%)*	Percent Rate/%+ or %-
	0000 Tax Status/Percent Key Control
10200	0 Print Control
10800	0 Key catch tone control
0122	0022 Date order/Add Mode Control (fixed)
0522	1020 General Control
0622	0000 Calculation Control
0822	0000 Report control
1022	0000 Tax Control
0326	0002
CLERK01	01 Clerk Name/Clerk No.
CLERK02	02
CLERK07	03
CLERK08	08
0125	0 % Tax Table 1
	0001
	0001
	10
	30
	54
	73
	110
0225	5.25 % Tax Table 2
	5002
	0000 Rounding Specifications/ Tax System Specifications
	01
	02
YOUR RECEIPT	Receipt message

CA/AMT  
= /TEND





**1-12-2 Printing pre-set PLU settings**



**1**

CA/AMT  
TEND

PLU0001	@1.00
#0001	0000
PLU0002	@2.00
#0002	0002
PLU0003	@3.00
#0003	0000
PLU0004	@4.00
#0004	0000
PLU0100	@1,999.00
#0199	0000
PLU1200	@1,200.00
#1200	0000

PLU Name/Unit Price  
PLU No./Program

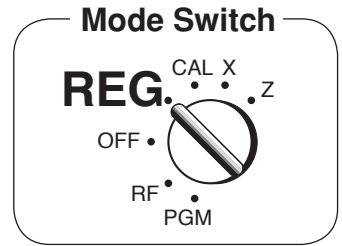
Stop printing by

Part-2

## 2. Various Operations

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

(Programming: See page 18)



Operation				Printout	
<b>Example</b>					
Unit Price	\$1.00	\$2.20	\$11.00		
Quantity	1	2	4		
Depts.	1	2	3		
Amount Tendered	\$50.00				

+ 1  
6/11/85

- 2  
7/12/17

- 2  
7/12/17

4

X / FOR  
DATE TIME

X 3  
8/13/18

SUB  
TOTAL

= CA / AMT  
TEND

01-08-2010	12:50		
REG	0018		
DEPT01	\$1.00		
DEPT02 T1	\$2.00		
DEPT02 T1	\$2.20	Repeat	
4 X @11.00		Multiplication/Unit Price	
DEPT03	\$44.00		
TA1	\$4.40		
TAX1	\$0.18		
<b>TOTAL</b>	<b>\$49.58</b>		
CASH	\$50.00	Cash Amount Tendered	
CHANGE	\$0.42	Change	

### 2-2 Single-Item Sales

(Programming: See page 19)

#### Example 1

Status	Single item sale
Unit Price	\$0.50
Quantity	1
Dept.	3

5 0 x 3  
8/13/18

01-08-2010	13:00	
REG	0019	
DEPT03	\$0.50	
CASH	<b>\$0.50</b>	Cash Sales

For this example, Dept. 1 is programmed for a single-item-sale.

#### Example 2

Status	Normal	Single item sale
Unit Price	\$1.00	\$0.50
Quantity	1	1
Dept.	2	3

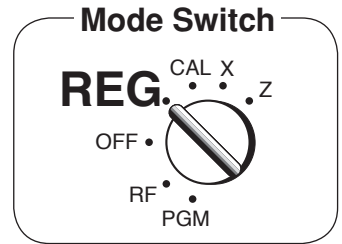
1 0 0 - 2  
7/12/17

5 0 x 3  
8/13/18

SUB  
TOTAL  
= CA / AMT  
TEND

01-08-2010	13:10	
REG	0020	
DEPT02 T1	\$1.00	
DEPT03	\$0.50	
TA1	\$1.00	Taxable Amount
TAX1	\$0.04	Tax
CASH	<b>\$1.54</b>	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
Depts.	4

Operation **3 5 0 0**  $\div 4$   $\div 4$  **SUB TOTAL** **CHK /NS**

Printout

01-08-2010	13:20
REG	0021
DEPT04	\$35.00
DEPT04	\$35.00
CHEK	<b>\$70.00</b>

Check Sales

### 2-4 Change the Tax Status

Example

Unit Price	\$1.00	\$2.00
Quantity	1	1
Depts.	1	2
Preset Status	Non-Taxable	Taxable 1
This Registration	Taxable 1	Taxable 1

Operation **1 0 0** **2 0 0**  $\div 1$   $\div 2$  **RC /T/SJ** **+ 1** **- 2** **= CA /AMT /TEND**

Printout

01-08-2010	13:30	
REG	0022	
DEPT01	T1	\$1.00
DEPT02	T1	\$2.00
TA1		\$3.00
TAX1		\$0.12
CA		<b>\$3.12</b>

### 2-5 Manual Tax

Example

Unit Price	\$1.00	\$2.00
Quantity	1	1
Depts.	1	2

Operation **1 0 0** **1 0** **2 0 0**  $\div 1$   $\div 2$  **% CLK#** **- 2** **= CA /AMT /TEND**

Printout

01-08-2010	13:40	
REG	0023	
NON-TAX		\$1.00
M-TAX		\$0.10
TAXABLE	T1	\$2.00
TA1		\$2.00
TAX1		\$0.08
CASH		<b>\$3.18</b>

Manual Tax

**% CLK#** key is programmed to function as a Manual Tax key (see page 20).

### 2-6 PLU operation

(Programming: See page 24)

Example

PLU No.	1	2
Unit Price	\$1.00	\$2.00
Quantity	2	4
Link Dept. No.	1	1

Operation **1** **PLU** **PLU** **4** **X /FOR DATE TIME** **2** **PLU** **= CA /AMT /TEND**

Printout

01-08-2010	13:50	
REG	0024	
PLU0001		\$1.00
PLU0001		\$1.00
4 X	@2.00	Repeat Multiplication
PLU0002		\$8.00
CASH		<b>\$10.00</b>

Preset Unit Price  
Cash Amount Tendered

## Part-2 CONVENIENT OPERATION

### 2-7 PLU Single-Item Sale

3

(Programming: See page 23)

Example

PLU No.	3
Status	Single item sale
Unit Price	\$1.00
Quantity	1

01-08-2010	14:00	
REG	0025	
PLU0003	T1	\$1.00
TA1		\$1.00
TAX1		\$0.04
CASH		\$1.04

Taxable Amount  
Tax

- For this example, linked department 2 is programmed for a single-item-sale.
- Single-item sale cannot be finalized if an item is registered previously.

### 2-8 Split cash/ check sales

3 0 0 0 - 2

2 5 0 0 x 3

Example

Unit Price	\$30.00	\$25.00
Quantity	1	1
Depts.	2	3
Cash Amount tendered	\$20.00	
Check	\$36.20	

2 0 0 0

01-08-2010	14:10	
REG	0026	
DEPT02	T1	\$30.00
DEPT03		\$25.00
TA1		\$30.00
TAX1		\$1.20
TOTAL		\$56.20
CASH		\$20.00
CHECK		\$36.20

### 2-9 Post receipt issuance

You can issue a post receipt after finalizing a transaction by pressing .

Note that all of the following condition must be satisfied:

- Print "receipt" option is selected.
- Paper Saving made must be "ON".
- The transaction must be finalized in the REG/RF mode using ,  or .

Example

Unit Price	\$1.00	\$2.00
Quantity	1	1
Depts.	1	2
Cash amount tendered	\$5.00	

1 0 0 + 1

2 0 0 - 2

5 0 0

(Receipt is not issued.)

(Receipt is issued.)

#### Note:

You can issue only one post receipt per transaction.

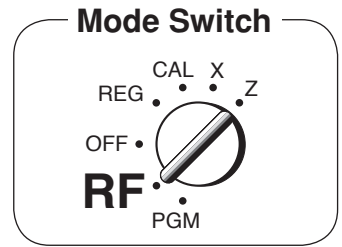
(Post receipt)

01-08-2010	14:20	
REG	0027	
DEPT01		\$1.00
DEPT02	T1	\$2.00
TA1		\$2.00
TAX1		\$0.08
TOTAL		\$3.08
CASH		\$5.00
CHANGE		\$1.92

If the transaction contains more than 40 lines (including receipt header), then the total formatted post receipt is issued.

(Total formatted post receipt)

01-08-2010	14:20	
REG	0027	
CASH		\$3.08



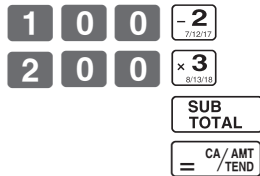
## 2-10 Refund

Operation

Printout

Example

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



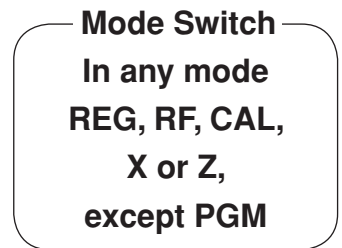
01-08-2010	14:30
RF	0028
TAXABLE	T1 \$1.00
DEPT03	\$2.00
TA1	\$1.00
TAX1	\$0.04
CASH	\$3.04

Refund Mode Symbol

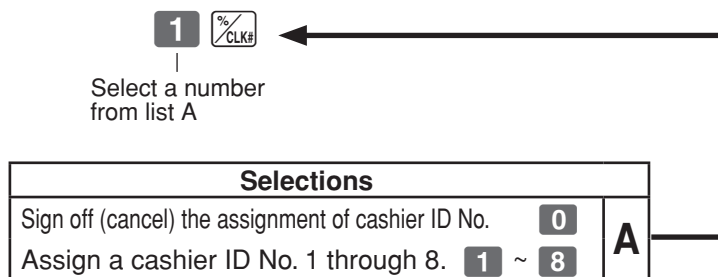
After you finish RF mode operation, be sure to return the Mode Switch to the REG (register) setting.

## 2-11 Cashier Assignment

(Programming: See page 21)

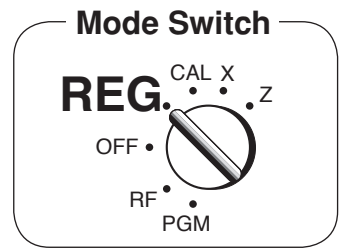


Cashier assignment system is used to control each cashier (or clerk) sales total. When you select this function on page 21, you can get 8 cashiers (or clerk) sales data. Cashier assignment must be performed prior to starting registration or any other operation, except Program mode.



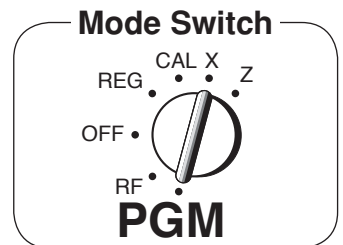
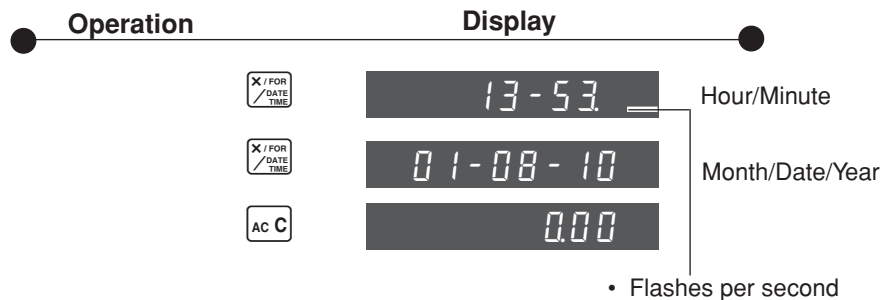
- Currently assigned cashier (or clerk) ID number is printed on the receipt or journal for each transaction.
- The assigned clerk memory number is automatically signed off when the mode key is set to OFF position.
- The assigned cashier (or clerk) sales totals with ID number are printed on the receipt or journal when you perform daily X/Z sales report.

Part-2



## 2-12 Other registrations

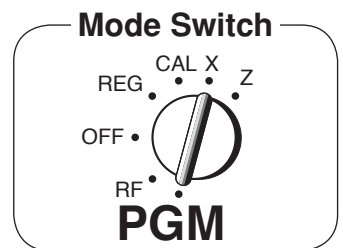
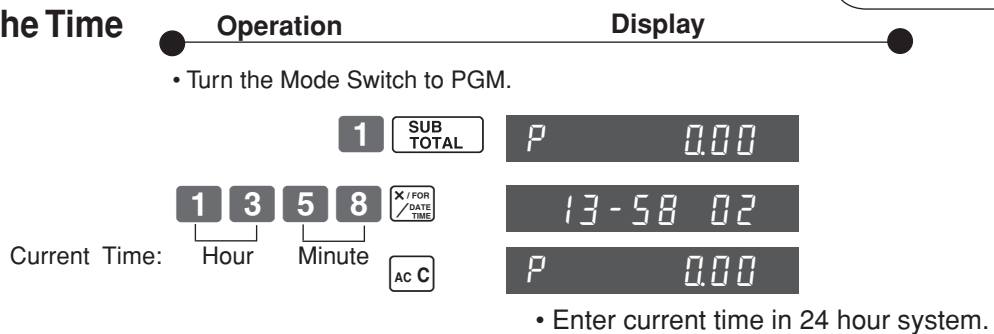
### 2-12-1 Reading the Time and Date



### Adjusting the Time

#### Example

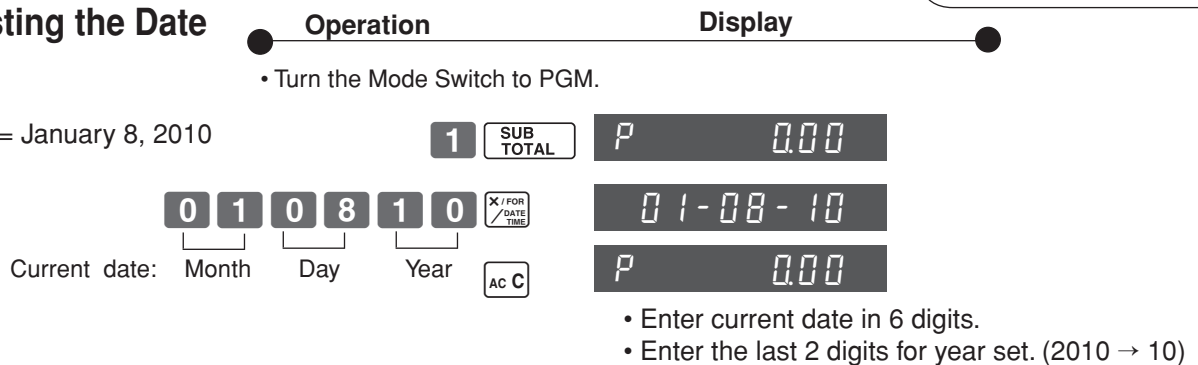
Current time = 13:58

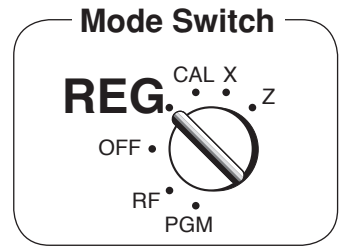


### Adjusting the Date

#### Example

Current date = January 8, 2010





**2-12-2 Paid out from cash in drawer**

<b>Operation</b>	<b>Printout</b>												
<p>1 2 3 4 5 6 7 8 #/DEPT SHIFT</p> <p>Enter reference No.</p> <p>1 0 0 0 PD/TIS2</p>	<table border="1"> <tr> <td>#</td> <td>12345678</td> <td>Reference Number</td> </tr> <tr> <td>01-08-2010</td> <td>17:30</td> <td></td> </tr> <tr> <td>REG</td> <td>0128</td> <td></td> </tr> <tr> <td>PD</td> <td>\$10.00</td> <td>Paid Out Amount</td> </tr> </table>	#	12345678	Reference Number	01-08-2010	17:30		REG	0128		PD	\$10.00	Paid Out Amount
#	12345678	Reference Number											
01-08-2010	17:30												
REG	0128												
PD	\$10.00	Paid Out Amount											

**2-12-3 Cash received on account**

<b>Operation</b>	<b>Printout</b>									
<p>6 0 0 RC/TIS1</p>	<table border="1"> <tr> <td>01-08-2010</td> <td>17:35</td> <td></td> </tr> <tr> <td>REG</td> <td>0129</td> <td></td> </tr> <tr> <td>RC</td> <td>\$6.00</td> <td>Received On Account Amount</td> </tr> </table>	01-08-2010	17:35		REG	0129		RC	\$6.00	Received On Account Amount
01-08-2010	17:35									
REG	0129									
RC	\$6.00	Received On Account Amount								

**2-12-4 Registering identification numbers**

A reference number or ID number of up to 8 digits can be registered prior to any transaction.

<p>5 0 +1 8/1116</p> <p>1 2 3 4</p> <p>5 6 7 8 #/DEPT SHIFT</p> <p>= CA/AMT/TEND</p>	<table border="1"> <tr> <td>01-08-2010</td> <td>17:45</td> <td></td> </tr> <tr> <td>REG</td> <td>0130</td> <td></td> </tr> <tr> <td>DEPT01</td> <td>\$0.50</td> <td></td> </tr> <tr> <td>#</td> <td>12345678</td> <td>Reference No. or ID No.</td> </tr> <tr> <td>CASH</td> <td>\$0.50</td> <td></td> </tr> </table>	01-08-2010	17:45		REG	0130		DEPT01	\$0.50		#	12345678	Reference No. or ID No.	CASH	\$0.50	
01-08-2010	17:45															
REG	0130															
DEPT01	\$0.50															
#	12345678	Reference No. or ID No.														
CASH	\$0.50															

**2-12-5 Reduction on subtotal**

Example  
Amount due reduced by \$0.50.

<b>Operation</b>	<b>Printout</b>																											
<p>1 0 0 -2 7/2017</p> <p>2 0 0 ÷ 4 8/1418</p> <p>SUB TOTAL</p> <p>5 0 ERR CORR</p> <p>= CA/AMT/TEND</p>	<table border="1"> <tr> <td>01-08-2010</td> <td>17:55</td> <td></td> </tr> <tr> <td>REG</td> <td>0131</td> <td></td> </tr> <tr> <td>DEPT02</td> <td>T1</td> <td>\$1.00</td> </tr> <tr> <td>DEPT04</td> <td></td> <td>\$2.00</td> </tr> <tr> <td>ST</td> <td></td> <td>\$3.04</td> </tr> <tr> <td>-</td> <td></td> <td>-0.50</td> </tr> <tr> <td>TA1</td> <td></td> <td>\$1.00</td> </tr> <tr> <td>TX1</td> <td></td> <td>\$0.04</td> </tr> <tr> <td>CA</td> <td></td> <td>\$2.54</td> </tr> </table> <p>See page 22 to print the subtotal line.</p>	01-08-2010	17:55		REG	0131		DEPT02	T1	\$1.00	DEPT04		\$2.00	ST		\$3.04	-		-0.50	TA1		\$1.00	TX1		\$0.04	CA		\$2.54
01-08-2010	17:55																											
REG	0131																											
DEPT02	T1	\$1.00																										
DEPT04		\$2.00																										
ST		\$3.04																										
-		-0.50																										
TA1		\$1.00																										
TX1		\$0.04																										
CA		\$2.54																										

## Part-2 CONVENIENT OPERATION

### 2-12-6 Premium/ Discount

•2.5% premium/discount (programmed to key) applied to first item.

**1 0 0**

•Be sure to use key when you wish to apply a premium/ discount to the subtotal.

**2 0 0**

**3 0 0**

•7% premium/discount applied to transaction total.

**7**

•For programming the key as percent minus or percent plus, see page 20.

•For programming percent rate, see page 18.

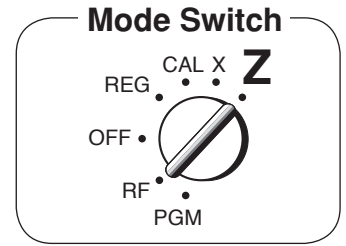
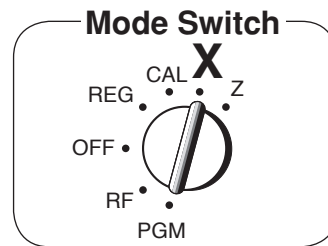
Premium			Discount		
DEPT02	T1	\$1.00	DEPT02	T1	\$1.00
%+ (2.5%)	T1	\$0.03 *1	%- (2.5%)	T1	-0.03 *1
DEPT02	T1	\$2.00	DEPT02	T1	\$2.00
DEPT02	T1	\$3.00	DEPT02	T1	\$3.00
ST		\$6.03 *2	ST		\$5.97 *2
%+ (7%)	T1	\$0.42 *3	%- (7%)	T1	-0.42 *3
TA1		\$6.45	TA1		\$5.55
TAX1		\$0.26	TAX1		\$0.22
CASH		<b>\$6.71</b>	CASH		<b>\$5.77</b>

\*1 Premium/ Discount Rate, Premium/ Discount Amount

\*2 Subtotal

\*3 Premium/ Discount Rate, Premium/ Discount Amount

### 2-13 PLU report



Operation

Printout

Mode Switch to **(X)** (Read)

**1**

```
01-08-2010 18:45
Z 0150
```

Mode Switch to **(Z)** (Reset)

**1**

```
0001 PLU Z 0001 Report code/Reset Counter
PLU0001 QT 12 PLU Name/No. of items
$12.00 Amount
PLU1200 QT 27
$180.00
-----
TOTAL QT 1284 PLU total count
$10856.89 PLU total amount
```

Stop printing by

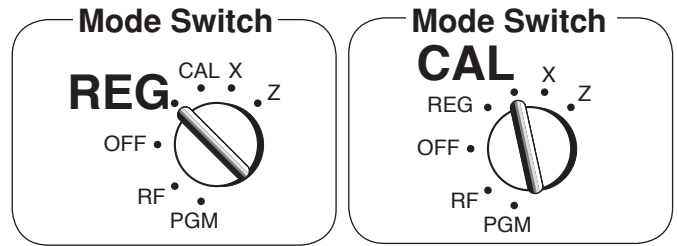


# Part 3

## 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

<b>Operation</b>	<b>Display</b>
AC c	[ 0 ]
5 + <sup>1</sup> 1 AC c	
(Cancels item entered.)	
5 + <sup>1</sup> 3 - <sup>2</sup> 2 = CA/AMT/TEND	6
2 3 - <sup>2</sup> 5 6 × <sup>3</sup> 7 8 = CA/AMT/TEND	-2574
4 × <sup>3</sup> 3 - <sup>2</sup> 6 ÷ <sup>4</sup> 3 · 5 + <sup>1</sup> 8 = CA/AMT/TEND	9714
1 5 0 0 × <sup>3</sup> 1 2 %/CLK#	180

#### 1-2 Memory recall

Recalls the current amount onto the display.  
 - during registration: current subtotal  
 - registration has been completed: the last amount

##### On REG mode

<b>Operation</b>	<b>Display</b>
1 0 00 + <sup>1</sup> 2 0 00 + <sup>1</sup>	10

##### On CAL mode

###### Example

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

PLU ÷<sup>4</sup> 3 = CA/AMT/TEND  
 Memory recall

Recalls the current result by pressing [PLU] key at CAL mode on the display.

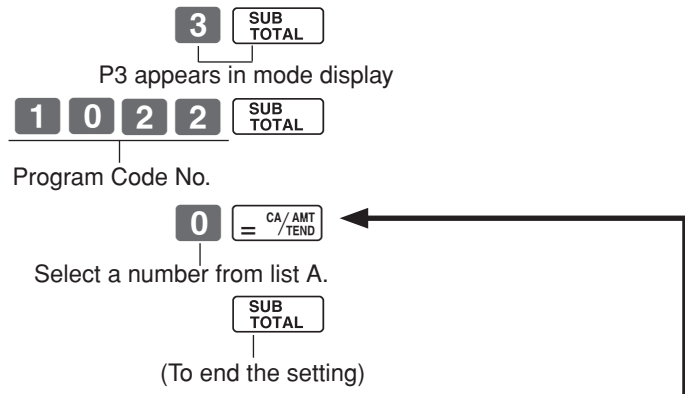
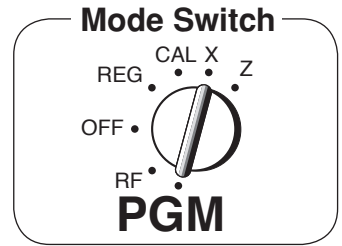
##### On REG mode

###### Example

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

<b>Operation</b>	<b>Printout</b>														
PLU = CA/AMT/TEND	<table border="0" style="width: 100%;"> <tr> <td>DEPT01</td> <td style="text-align: right;">\$10.00</td> </tr> <tr> <td>DEPT01</td> <td style="text-align: right;">\$10.00</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: right;">\$30.00</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">\$10.00</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">\$10.00</td> </tr> <tr> <td>CASH</td> <td style="text-align: right;">\$10.00</td> </tr> <tr> <td>CHANGE</td> <td style="text-align: right;">\$0.00</td> </tr> </table>	DEPT01	\$10.00	DEPT01	\$10.00	TOTAL	\$30.00	CASH	\$10.00	CASH	\$10.00	CASH	\$10.00	CHANGE	\$0.00
DEPT01		\$10.00													
DEPT01		\$10.00													
TOTAL		\$30.00													
CASH		\$10.00													
CASH		\$10.00													
CASH		\$10.00													
CHANGE	\$0.00														
PLU = CA/AMT/TEND															
PLU = CA/AMT/TEND															
Memory recall															

### 1-3 Setting for calculator operation



Selections			
Open drawer whenever [CA/AMT TEND] is pressed.*			
Open drawer whenever [CHK/INS] is pressed.*			
Print No. of Equal key operations on General Control X and Z reports.			
Yes	No	No	0
	Yes	Yes	1
No	No	No	2
	Yes	Yes	3
Yes	No	No	4
	Yes	Yes	5
No	No	No	6
	Yes	Yes	7

\*Drawer does not open during registration procedures even if you press [CA/AMT TEND] or [CHK/INS] by turning the mode switch to CAL position.



# USEFUL INFORMATION

## 1. Troubleshooting

### 1-1 If the following things happen

	Symptom/Problem	Most common causes	Solutions
1	E01 appears on the display.	Changing modes without completing transaction.	Return mode switch to where it stops buzzing and press $\left[ \begin{smallmatrix} CA/AMT \\ = \\ /TEND \end{smallmatrix} \right]$ .
2	E08 appears on the display.	Sign on operation is not performed.	Prior to starting registration of any other operation, press <b>1</b> ~ <b>8</b> and then $\left[ \begin{smallmatrix} \% \\ \text{CLK} \end{smallmatrix} \right]$ .
3	E10 appears on the display.	Printer head (platen arm) is opened or no paper roll.	Close the platen arm firmly or enter paper roll.
4	No date on receipt. Paper is not advancing enough.	Printer is programmed as a journal.	Program printer to print receipts.
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 and program again.
8	Register is inoperative. Can't get money out of drawer.	No power.	Pull lever underneath register at rear.

**Note:** If you cannot resolve your difficulty, please visit <http://casio4business.com>.

### 1-2 In case of power failure

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

- Power failure during a registration  
The subtotal for items registered up to the power failure is retained in memory. You will be able to continue with the registration when power is restored.
- Power failure during printing a read/reset report  
The data already printed before the power failure is retained in memory. You will be able to issue a report when power is restored.
- Power failure during printing of a receipt 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.

Part-4

## 1-3 When the L sign appears on the display

### About the low battery indicator...

The following shows the low battery indicator.



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

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

To clear this sign, press  key.

### Important!

Whenever the low battery indicator appears on the display, load a set of 2 new batteries as soon as possible. If there is a power failure or you unplug the cash register when this indicator appears, you will lose all of your sales data and settings.

**BE SURE TO KEEP THE POWER CORD OF THE CASH REGISTER PLUGGED IN WHENEVER YOU REPLACE THE BATTERIES.**

## 2. Specifications

### INPUT METHOD

Entry: 10-key system; Buffer memory 8 keys (2-key roll over)  
 Display (LED): Amount 8 digits (zero suppression); Department/PLU No.; No. of repeats;  
 Total/ Change/ Paper saving indicator

### PRINTER

Journal: 24 digits  
 (or Receipt) 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 2 (UM-3, or R6P (SUM-3) type batteries) is approximately one year from installation into the machine.

Power source/Power consumption: See the rating plate.

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

Humidity: 10 to 90%

Dimensions/ Weight: 7 <sup>3</sup>/<sub>8</sub>"(H)×13"(W)×14 <sup>3</sup>/<sub>16</sub>"(D) / 9 lbs  
 (188 mm(H)×330 mm(W)×360 mm(D)/ 4kg) (PCR-T280)  
 8 <sup>1</sup>/<sub>16</sub>"(H)×16 <sup>1</sup>/<sub>8</sub>"(W)×17 <sup>11</sup>/<sub>16</sub>"(D) / 17 lbs 11oz  
 (205 mm(H)×410 mm(W)×450 mm(D)/ 8kg) (PCR-T280L/T290L)

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

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

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

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

**Canadian Regulatory Information**

This Class A digital apparatus complies with Canadian ICES-003.

**LIMITED WARRANTY: ELECTRONIC CASH REGISTERS**

This product, except the battery, is warranted by Casio to the original purchaser to be free from defects in material and workmanship under normal use for a period, from the date of purchase, of one year for parts and 90 days for labor. For one year, upon proof of purchase, the product will be repaired or replaced (with the same or a similar model) at Casio's option, at a Casio Authorized Service Center without charge for parts. Labor will be provided without charge for 90 days. The terminal resident software and programmable software, if any, included with this product or any programmable software which may be licensed by Casio or one of its authorized dealers, is warranted by Casio to the original licensee for a period of ninety (90) days from the date of license to conform substantially to published specifications and documentation provided it is used with the Casio hardware and software for which it is designed.

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**CASIO, INC.**  
570 MOUNT PLEASANT AVENUE,  
P. O. BOX 7000, DOVER, NEW JERSEY 07801 U.S.A.

Model:.....Serial Number:..... Date of Purchase:.....

Your Name:.....

Address:.....

Dealer's Name:.....

Address:.....

Part-4

**CASIO®**

**CASIO COMPUTER CO., LTD.**  
6-2, Hon-machi 1-chome  
Shibuya-ku, Tokyo 151-8543, Japan

PCR-T280\*INC  
CR0906-A

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