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

PRINTED WITH
SOY INK™

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 △ 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 ⊘ symbol indicates a prohibited action. In this symbol the actual type of prohibited actions (disassembly, in this case) will be indicated.

The ● 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.

Contents

Basic Components and Accessories

Printer cover

Operator display

Mode switch

Keyboard

Drawer

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

OP key   PGM key

Note:
An error is generated (E01 displayed) whenever the position of the Mode Switch is changed during registration.
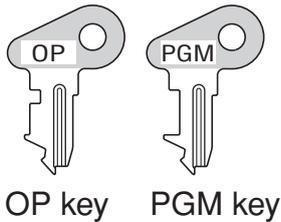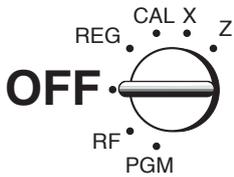
The position of the Mode Switch controls the type of operations you can perform on the cash register. The PROGRAM key (marked PGM) can be select any Mode Switch setting, while OPERATOR key (marked OP) can be used to select OFF, REG or CAL only.
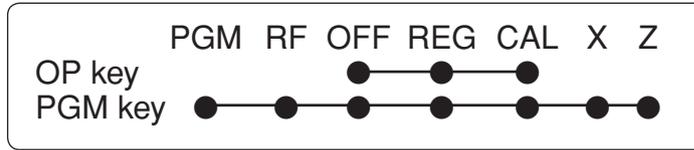
OFF
In this position, the power of the cash register is off.

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.

Display

Operator display
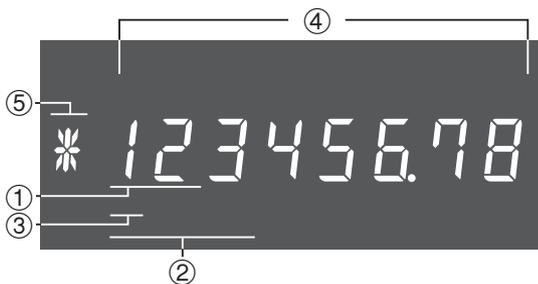
Customer display

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 ($\bar{t}$) or change ($\bar{c}$) appears when a subtotal, total, or change is obtained.

In the paper saving mode, it shows ⋇.

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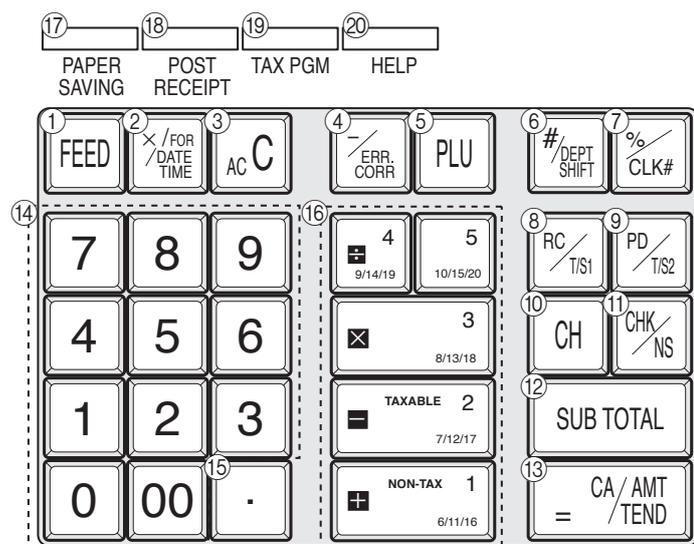
Certain keys have two functions; one for register mode and one for calculator mode.

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 6/11/16, −2 7/12/17, ×3 8/13/18, ÷4 9/14/19, 5 10/15/20

    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 #/DEPT SHIFT +1 6/11/16 ~ #/DEPT SHIFT #/DEPT SHIFT 5 10/15/20 → Department 11 ~ 15

#/DEPT SHIFT #/DEPT SHIFT #/DEPT SHIFT +1 6/11/16 ~ #/DEPT SHIFT #/DEPT SHIFT #/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, ×3, ÷4

    Arithmetic Operation key

Daily Job Flow

Before Opening The Store

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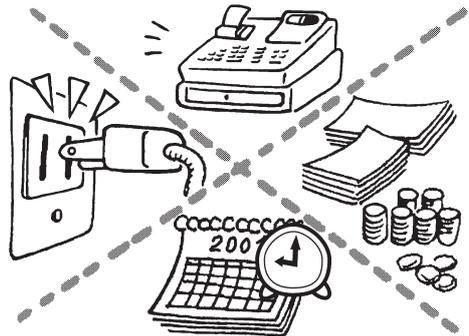
While The Store Is Open

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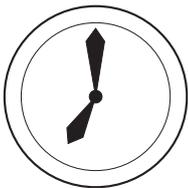
After Closing The Store

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.
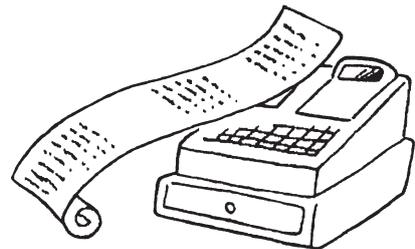
Other

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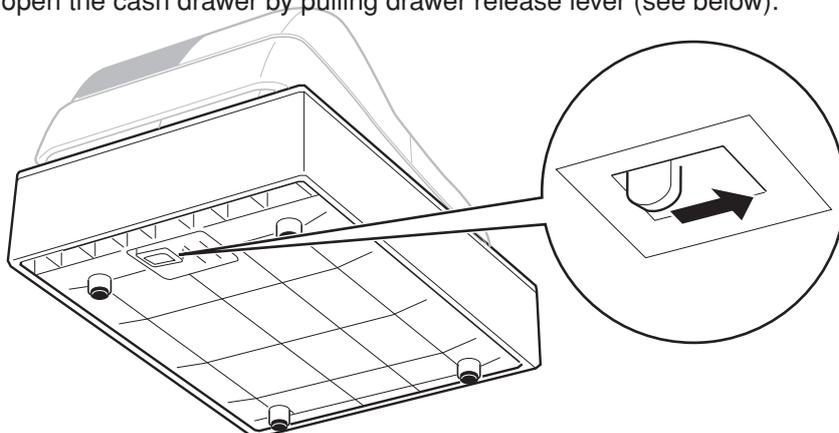
Important!
The drawer will not open, if it is locked with a drawer lock key.

E

Part-1 QUICK START OPERATION

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

| 0 - 00 - 00 |

Enter current date in Month, Day, Year.
④ When the display shows blinking "0", such as

| 0 - 00 |

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.
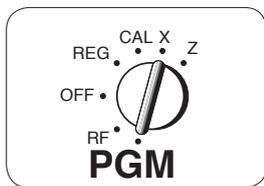
| 1 | SUB TOTAL |
| 1 | CH |

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 real a few turns.

⑤ Set the left plate of the take up need 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 strage.
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.

E

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.

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

0101:ALABAMA
0201:ALASKA

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

Find your state ➡

C) Enter your four digit state number and then press [HELP] .

[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 7/12/17] Enter tax rate and press dept key.

[4] [×3 8/13/18] 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 7/12/17] Enter tax rate and press dept key.

[7] [×3 8/13/18] 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

Mode Switch

REG. CAL X Z
OFF
RF
PGM

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

	Operation	Printout
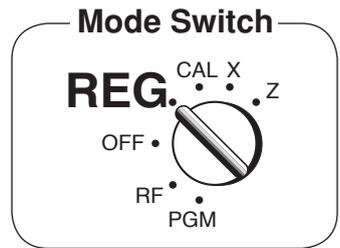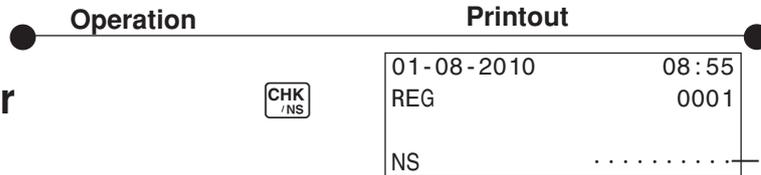
9-1 Open the drawer without a sale

CHK/NS

```
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	

`1` `0` `0` `-2` (7/12/17)
Unit Price   Department 2

`#/DEPT SHIFT` `2` `0` `0` `5` (10/15/20)
Department 10

`#/DEPT SHIFT` `#/DEPT SHIFT` `3` `0` `5` (10/15/20)
Department 15

`SUB TOTAL`

`5` `0` `0` `=/CA/AMT TEND`
Cash amount tendered
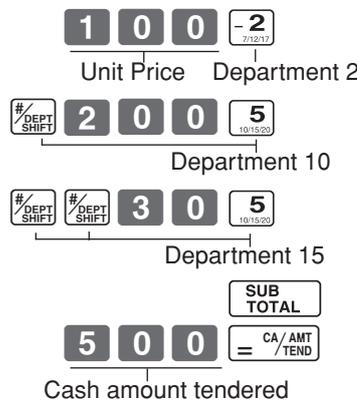
```
01-08-2010          09:00
REG                   0002

DEPT02      T1       $1.00
DEPT10               $2.00
DEPT15               $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` (6/11/16), `-2` (7/12/17), `×3` (8/13/18), `÷4` (9/14/19) or `5` (10/15/20) 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

`1` `0` `0` `-2` (7/12/17)
Unit Price   Department 2

`-2` (7/12/17)

`3` `X/FOR DATE TIME`
Quantity   Multiple key

`1` `3` `5` `-2` (7/12/17)

`SUB TOTAL`

`=/CA/AMT TEND`
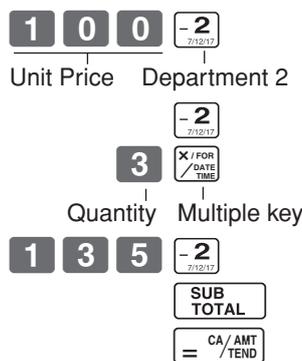
```
01-08-2010          09:10
REG                   0003

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

`3` `X/FOR DATE TIME`
Sales Quantity   Multiple key

`1` `2` `X/FOR DATE TIME`
Package Quantity   Multiple key

`1` `0` `00` `+1` (6/11/16)
Package Price

`SUB TOTAL`

`=/CA/AMT TEND`
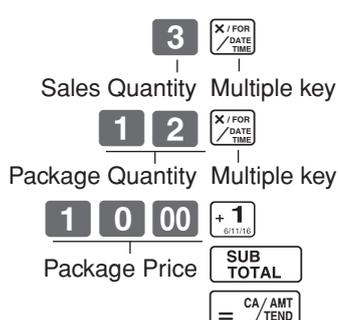
```
01-08-2010          09:15
REG                   0004

      3 X
     12 /         @10.00
DEPT01               $2.50
CASH               $2.50
```
— Sales Quantity
— Package Quantity/ Unit Price

Mode Switch

REG. CAL X
Z
OFF
RF
PGM

Operation   **Printout**
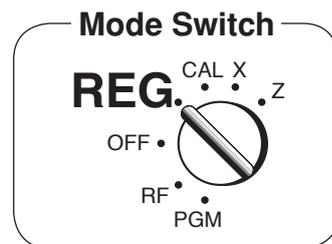
9-5 Charge sales

Example

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

```
1 0 0  +1 6/11/16
2 0 0  -2 7/12/17
3 0 0  +1 6/11/16
       SUB TOTAL
       CH
       |
    Charge key
```
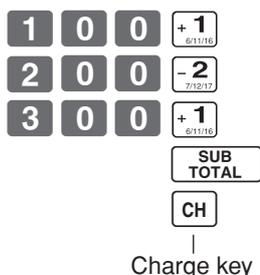
```
01-08-2010          09:30
REG                  0005

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	

```
2 0 0  +1 6/11/16
3 0 0  -2 7/12/17
4 0 0  +1 6/11/16
       SUB TOTAL
5 0 0  = CA/AMT TEND
       CH
```
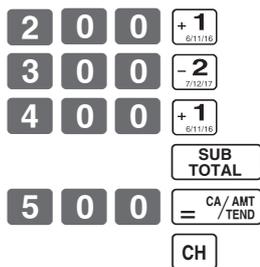
```
01-08-2010          09:50
REG                  0007

DEPT01             $2.00
DEPT02      T1     $3.00
DEPT01             $4.00
TA1                $3.00
TAX1               $0.12
TOTAL            $9.12
CASH               $5.00 — Cash Amount Tendered
CHARGE             $4.12 — 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.

Operation   **Printout**

Example

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

```
4 0 0  AC C
|           |
Wrong entry  Clears the last item entered.

1 0 0  +1 6/11/16
|           |
Correct entry  Registered Department 1
```

```
DEPT01             $1.00
```
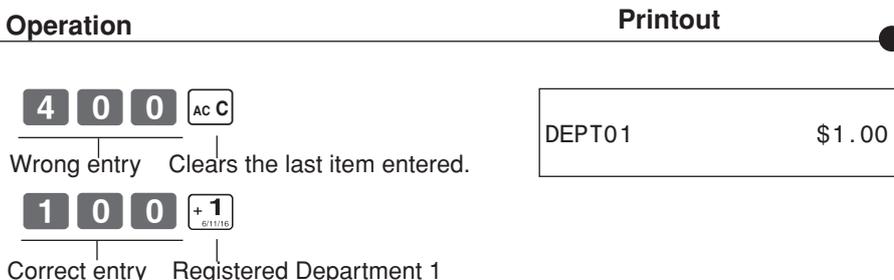
Operation   **Printout**

2. Entered unit price first instead of quantity and then pressed X/FOR DATE TIME.

2 0 0 [X/FOR DATE TIME]
Unit price Multiplication

```
      5 X        @2.00
DEPT02    T1    $10.00
```

[AC C]
Clears the last item entered.

5 [X/FOR DATE TIME]
Quantity Multiplication

2 0 0 [-2]
Unit price Registered Department 2
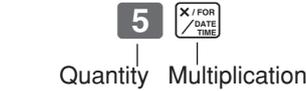
3. Entered 150 for unit price by mistake instead of 105.

1 0 [X/FOR DATE TIME]
Quantity Multiplication

```
     10 X        @1.05
DEPT03         $10.50
```

1 5 0 [AC C]
Wrong entry Clears the last item entered.

1 0 [X/FOR DATE TIME]
Quantity

1 0 5 [×3]
Correct entry Registered Department 3

9-7-2 After you pressed a department key

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

Example

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

5 5 0 [+1]
Wrong entry

```
DEPT01         $5.50
ERR CORR       -5.50
DEPT01         $5.05
```

[ERR CORR]
Cancels the last item registered.

5 0 5 [+1]
Correct entry Registered Department 1

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

3 [X/FOR DATE TIME]
Quantity Multiplication

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

2 2 0 [-2]
Wrong entry

[ERR CORR]
Cancels the last item registered.

3 [X/FOR DATE TIME]

2 3 0 [-2]
Correct entry Registered Department 2

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

Mode Switch

X

CAL
REG   Z
OFF
RF
PGM

Operation

X / FOR
DATE
TIME
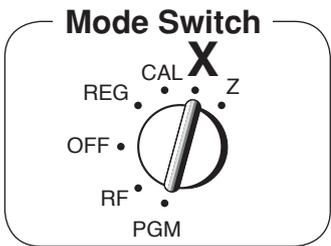
Printout

01-08-2010	16:50	
X	0131	
FLASH X		Read Symbol
GROSS TOTAL	QT 67	Gross Sales No. of Items
	$270.48	Gross Sales Amount
NET TOTAL	No 36	Net Sales No. of Customers
	$271.24	Net Sales Amount
CASH-INDW	$197.57	Cash Total in Drawer
CHARGE-INDW	$18.19	Charge Total in Drawer
CKECK-INDW	$45.18	Check Total in Drawer

10-2 Read/Reset Report

10-2-1 Daily Read/Reset Report

Mode Switch to (X) (Read)

= CA/AMT
TEND

Mode Switch to (Z) (Reset)

= CA/AMT
TEND

Mode Switch

CAL X Z
REG
OFF
RF
PGM
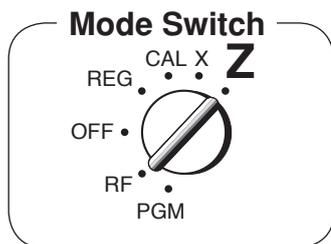
Operation

Printout

Z (Reset) report

01-08-2010	19:35	Date/Time
Z	0173	Consecutive No.
0000 **DAILY**	Z 0012	Non-resettable Sales No. of Resets[1] /RESET Symbol[1]
DEPT01	QT 48	Dept. Name/No. of items
	$50.10	Amount
DEPT02	QT 28	
	$76.40	
DEPT00	QT 17	
	$20.	
DEPT20	QT 29	
	$3.00	
- -		
GROSS TOTAL	QT 108	Gross Sales No. of Items
	$316.80	Gross Sales Amount
NET TOTAL	No 46	Net Sales No. of Customers
	$325.13	Net Sales Amount
CASH-INDW	$199.91	Cash in Drawer
CHAREG-INDW	16.22	Charge in Drawer
CHECK-INDW	$105.00	Check in Drawer
TA1	$105.10	Taxable Amount 1
TAX1	$4.20	Tax Amount 1
TA2	$75.60	Taxable Amount 2
TAX2	$3.97	Tax Amount 2
RF-MODE TTL	No 2	RF Mode Count
	$0.50	RF Mode Amount

```
CALCULATOR      No      3 ─── No. of [=CA/AMT TEND] 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)*2
```

* X (Read) report is the same except *1 and *2.

10-2-2 Periodic Read/ Reset Report

Operation   **Printout**

Mode Switch to (Z) **or** (X)   `1 0 [=CA/AMT TEND]`

```
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
```

1. Various Programming

1-1 Unit price for Departments

Mode Switch

REG · CAL X · Z
OFF ·
RF ·
PGM

Example

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

| **1** | SUB TOTAL |

P appears in mode display

1	0	0	+1 6/11/16	(For Dept. 1)
2	2	0	-2 7/12/17	(For Dept. 2)
1	1	0	0	×3 8/13/18	(For Dept. 3)

| SUB TOTAL |
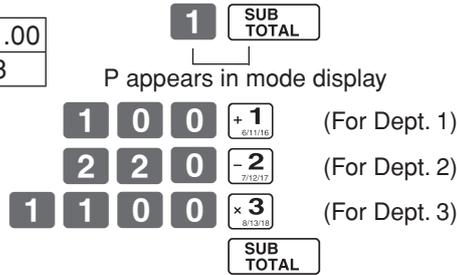
• Unit prices within the range of 0.01~9999.99.

1-2 Rate for percent key

| **1** | SUB TOTAL |
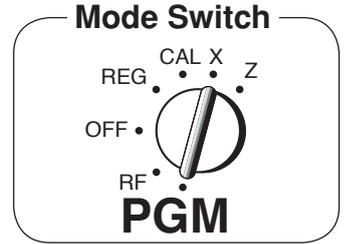
P appears in mode display

Example

Discount Rate	2.5%

| 2 | · | 5 | %/CLK# |

| SUB TOTAL |

(To end the setting)
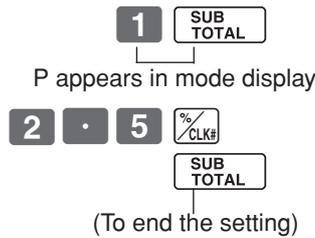
• The rate within the range of 0.01 to 99.99%.

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.

| **1** | SUB TOTAL | TAX PGM |

P appears in mode display

Example

Status	Non-Taxable	Taxable
Dept.	1 ~ 5	6 ~ 10
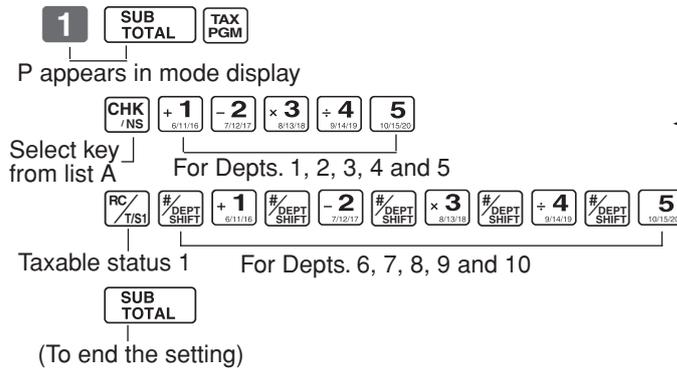
| CHK/NS | +1 6/11/16 | -2 7/12/17 | ×3 8/13/18 | ÷4 9/14/19 | 5 10/15/20 |

Select key from list A   For Depts. 1, 2, 3, 4 and 5

| RC/T/S1 | #/DEPT SHIFT | +1 6/11/16 | #/DEPT SHIFT | -2 7/12/17 | #/DEPT SHIFT | ×3 8/13/18 | #/DEPT SHIFT | ÷4 9/14/19 | #/DEPT SHIFT | 5 10/15/20 |

Taxable status 1   For Depts. 6, 7, 8, 9 and 10

| SUB TOTAL |

(To end the setting)

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/FOR /DATE /TIME
Taxable status 4	CH
Non-taxable status	CHK/NS

A

1-4 Status for Department

Example

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

[3] [SUB TOTAL]

P3 appears in mode display

[0] [4] [1] [+1 6/11/16] For Dept. 1

Select a number from list A

Select a number from list B

Select a number from list C

[0] [5] [1] [-2 7/12/17] For Dept. 2

Normal department

Maximum No. of digits to be 5

Single item sale department

[SUB TOTAL]

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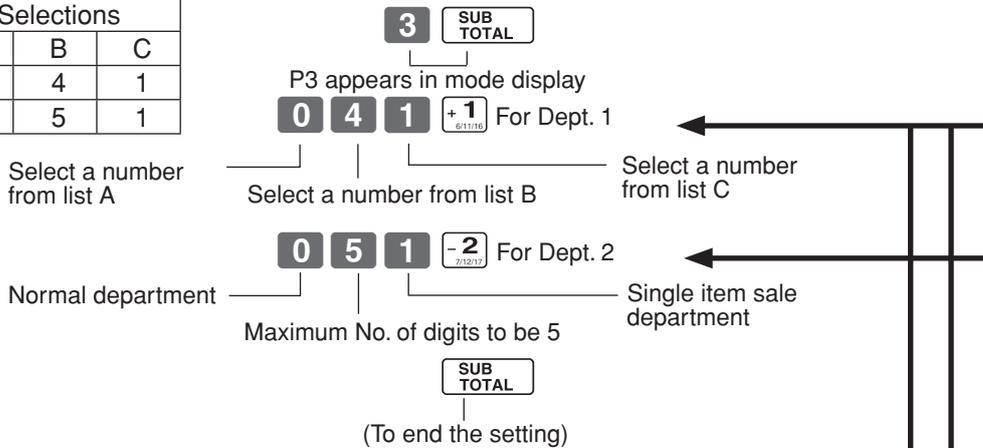
Selections		
Normal department	[0]	A
Minus department	[1]	
No limitation for manually entered price.(7digits)	[0]	B
Maximum number of digits for manually entered price. (1 ~ 7 digits)	[1] ~ [7]	
To prohibit manual price entries.	[8] or [9]	
Normal sales (not a single-item sale) department	[0]	C
Set as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

1-5 Status for percent key

1-5-1 To change tax-able status for the percent key

The percent key is initialized as Taxable status 1.

Example
Change Percent key registration as a Non-taxable.

[1] [SUB TOTAL] [TAX PGM]

P appears in mode display

[CHK /NS] [% /CLK#]

Select key from list A (For percent key)

[SUB TOTAL]

(To end the setting)

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/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]

A

E

Mode Switch

REG   CAL X   Z

OFF

RF

PGM

1-5-2 Status for percent key

`3` `SUB TOTAL`

P3 appears in mode display

Example

Round	Up
Percent	%+

`1` `1` `%/CLK#`

Select a number from list A

Select a number from list B

`SUB TOTAL`

(To end the setting)
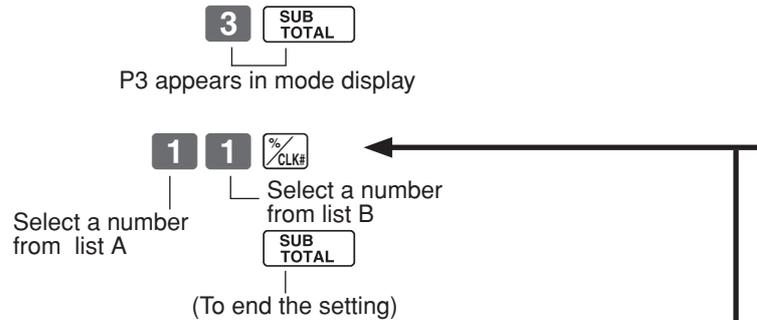
Selections		
Rounding of results produced by Percent Key operation.		
Round off (1.544=1.54; 1.545=1.55)	`0`	A
Cut off (1.544=1.54; 1.545=1.54)	`1`	
Round up (1.544=1.55; 1.545=1.55)	`2`	
Program Percent Key to register discounts (%–).	`0`	B
Program Percent Key to register premiums (%+).	`1`	
Program 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.

`1` `SUB TOTAL` `TAX PGM`

P appears in mode display

Example
Change minus key registrations as a taxable status 1.

`RC/T/S1` `–/ERR CORR`

Select key from list A

Minus key

`SUB TOTAL`

(To end the setting)

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/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`

A

1-7 General features

1-7-1 To set general controls

`3` `SUB TOTAL`

P3 appears in mode display

`0` `6` `2` `2` `SUB TOTAL`

Program code No.

`0` `0` `0` `0` `= CA/AMT TEND`

`SUB TOTAL` (To end the setting)

Select a number from list A
Select a number from list B
Select a number from list C
Select a number from list D

A

	Selections
Key catch tone.	
Yes	0
No	4

C

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

B
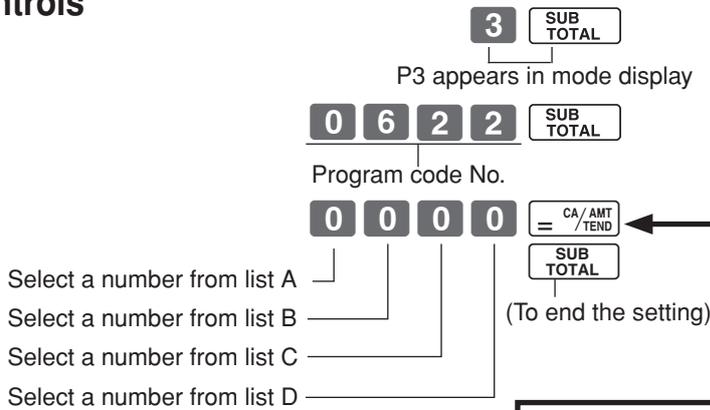
Maintain key buffer during receipt issue in REG mode.			
Reset the consecutive number to zero whenever a Daily Reset Report is issued.			
Allow credit balance registration.			
No	Yes	Yes	0
No	Yes	No	1
No	No	Yes	2
No	No	No	3
Yes	Yes	Yes	4
Yes	Yes	No	5
Yes	No	Yes	6
Yes	No	No	7

D

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

Part-2

1-7-2 To set printing controls

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

[SUB TOTAL]

(To end the setting)

Mode Switch

CAL X
REG   Z
OFF
RF

PGM

Selections (A)

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**	A
Yes	Single	R	**4**	
		J	**5**	
	Double	R	**6**	
		J	**7**	

Selections (B)

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

Selections (C)

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**	C
Yes	No	Yes	**4**	
		No	**5**	
	Yes	Yes	**6**	
		No	**7**	

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]

[SUB TOTAL]

Select a number from list A

Select a number from list B

(To end the setting)

Selections (A)

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

Selections (B)

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

1-7-4 Printer switch for Receipt or Journal

The printer is initialized as receipt.

Example
To print a journal.

`1` `SUB TOTAL`

P appears in mode display

`1` `CH`

Select a number from list A

Selections	
A	Use the printer to print receipts. `0`
	Use the printer to print a journal. `1`
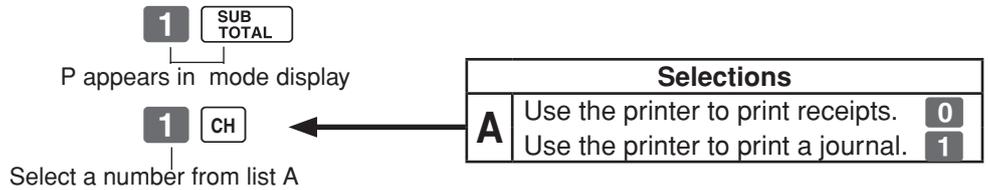
- Printer selection to print a journal or receipts can also be set on procedures 1-7-2 "To set printing controls".

1-7-5 Receipt printing character/ key catch tome

`1` `SUB TOTAL`

P appears in mode display

`1` `0` `2` `0` `0` `SUB TOTAL`
`1` `= CA/AMT /TEND`

Selections		
Print receipt with single height. `0`	A
Print receipt with double height. `1`	

`1` `0` `8` `0` `0` `SUB TOTAL`
`1` `= CA/AMT /TEND`

Selections		
Key catch tone `0`	B
No key catch tone `1`	
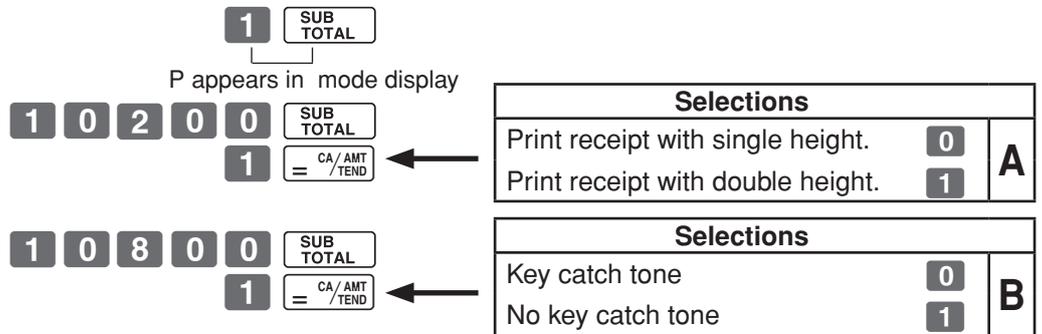
1-8 PLU setting

1-8-1 Linkage with Departments

`3` `SUB TOTAL`

P3 appears in mode display

`1` `PLU` `1` `= CA/AMT /TEND`

PLU No.   Select numbers from list A

`1` `0` `0` `PLU`

PLU No.

`1` `0` `= CA/AMT /TEND`

Dept. No. to be linked

`SUB TOTAL`

(To end the setting)

Example

PLU No.	1	100
Link Dept. No	1	10

Selections	
A	Linked to dept. 20. `0`
	Linked depts. 1~20 respectively. `1` ~ `2` `0`
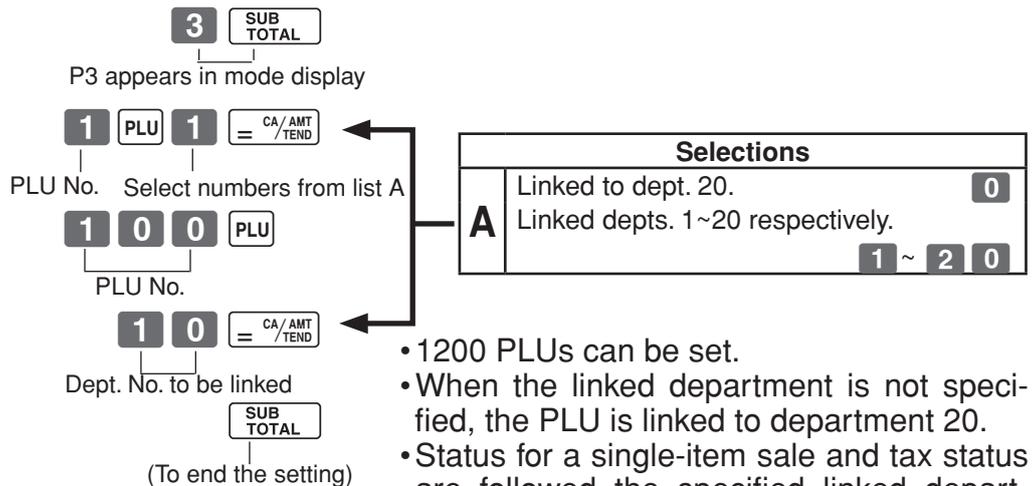
- 1200 PLUs can be set.
- When the linked department is not specified, the PLU is linked to department 20.
- Status for a single-item sale and tax status are followed the specified linked department.

1-8-2 Unit Prices for PLUs

Example

PLU No.	1	2
Unit Price	$1.00	$3.00

`1` **`SUB TOTAL`**

P appears in mode display

`1` **`PLU`**

PLU No.

`1` **`0`** **`0`** **`= CA/AMT /TEND`**

Unit Price

`2` **`PLU`**

PLU No.

`3` **`0`** **`0`** **`= CA/AMT /TEND`**

Unit Price

`SUB TOTAL`

(To end the setting)

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

Mode Switch

CAL X
REG   Z
OFF
RF

PGM
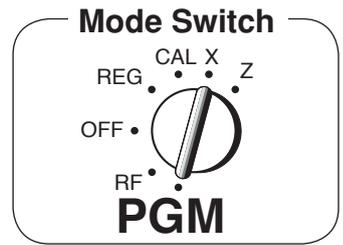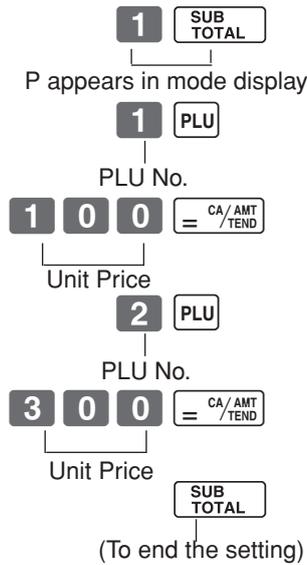
1-9 To control Tax Status printing

`3` **`SUB TOTAL`**

P3 appears in mode display

Example
Do not print Tax status symbol.

`0` **`3`** **`2`** **`6`** **`SUB TOTAL`**

Program set code No.

`2` **`0`** **`0`** **`= CA/AMT /TEND`**

Select a number from list A

Select a number from list B

Enter "0" (fixed code) **`SUB TOTAL`**

(To end the setting)
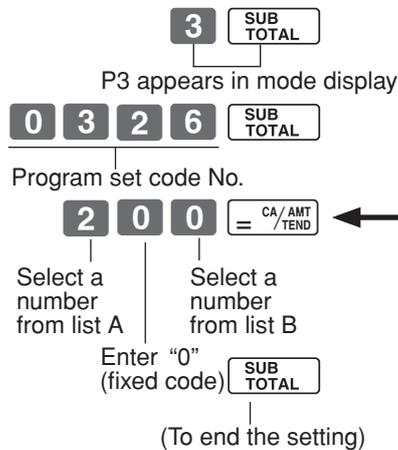
Selections		
Print Tax status symbols.	0	A
Do not print Tax status symbols.	2	

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

1-10 To program Tax Table

1-10-1 Canadian Tax Table

Mode Switch

CAL X
REG · · · Z
OFF ·
RF ·

PGM

Type 1
Choose the tax rate from a preset tax table for British Columbia, Manitoba, Ontario, Prince Edward Island, Quebec and Saskatchevan.
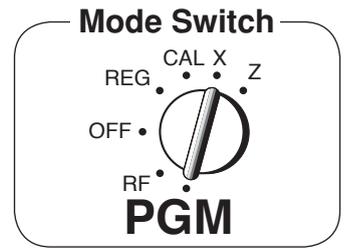
A) Enter **0** **2** and press `HELP`.
B) Select your state.

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, Numnavut Territory and Yukon Territory.
   Enter 5 (tax rate) and press appropriate department key. (Tax rate is as of 2009/April)
D) For New Brunswick, Newfoudland&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)

3 `SUB TOTAL` P3 appears in mode display
1 `SUB TOTAL` Enter tax table No. (1 ~ 4)
1 **2** **·** **3** **4** **5** **6** `= CA/AMT TEND` Enter tax rate with decimal point.
5 **0** **0** **2** `= CA/AMT TEND`

Rounding:
Round off = 50,
Cut off = 00,
Round up = 90

Tax system:
Add-on = 2,
Add-in = 3,
Tax on tax = 4

`SUB TOTAL` (To end the setting)
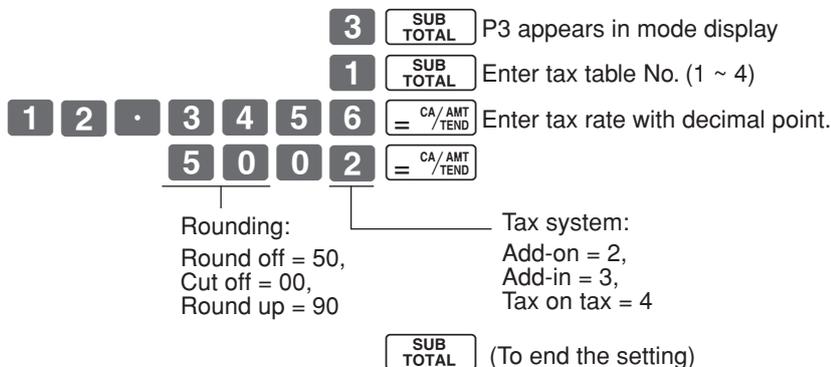
4 tax tables are used for the following purpose.
• Table 1: Used for the federal taxable items.
• Table 2: Used for the provincial taxable items.
• Table 3/4: Used for the provincial taxable items for different tax table.

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

Mode Switch

REG · CAL X · · Z

OFF ·

RF ·

PGM

1-11-1 Simple character list fror [HELP]

You can set department and PLU name by using a simple character list fror [HELP]
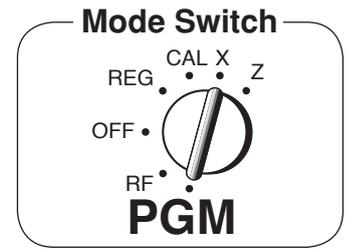
1-1. Issue category list.

[1] [2] [HELP]

```
112:ARTICLE SALE
212:BOOK, STATIONARY
312:ELECTRONIC GOODS
412:DRESSING
512:SERVICE
612:PHARMACY
712:FOODSTUFFS
812:MEAL
912:OTHER
```
} Categories
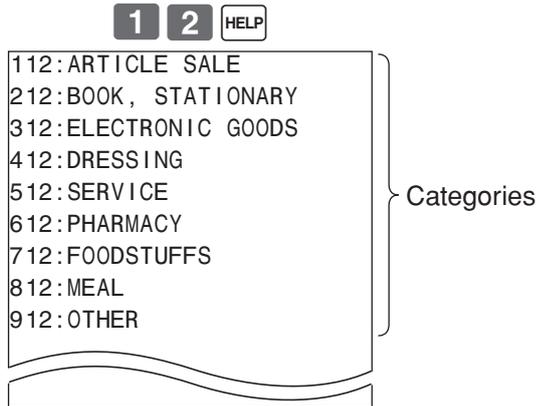
1-2. Issue simple character list.

[4] [1] [2] [HELP]

```
DRESSING
401:JEWELRY
402:CLOTHING
403:UMBRELLA
404:SHOES
  :   :
  :   :

428:SCARF
```

2-1. Programming department name.

Example

Department	2	8
Name	JEWELRY	SHOES
Character code	401	404

[2] [SUB TOTAL]

P2 appears in mode display

[4] [0] [1] [-2 7/12/17]

[4] [0] [4] [#/DEPT SHIFT] [×3 8/13/18]

[SUB TOTAL]

(To end the setting)

[E]
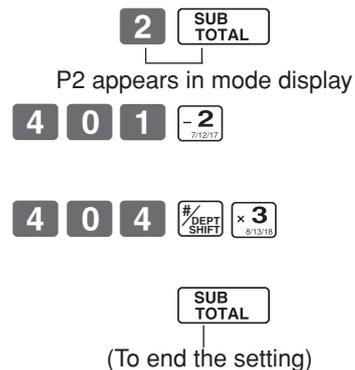
2-2. Reset department name.

Department	2
Name	DEPT01
Character code	0

2 **SUB TOTAL**

P2 appears in mode display

0 **-2** 7/12/17

SUB TOTAL

(To end the setting)
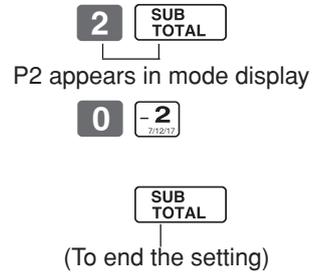
2-3. Programming department PLU

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

2 **SUB TOTAL**

P2 appears in mode display

2 **PLU** **—** **4** **0** **2** **= CA/AMT TEND**

3 **0** **PLU** **—** **4** **0** **3** **= CA/AMT TEND**

(To end the setting)
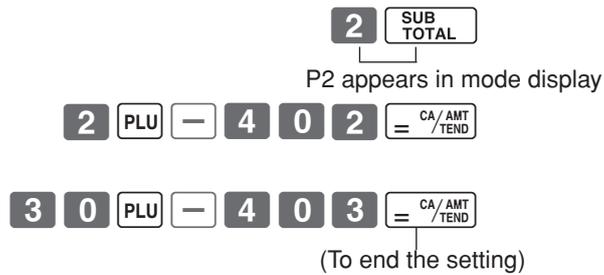
2-4. Reset PLU name.

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

2 **SUB TOTAL**

P2 appears in mode display

3 **0** **—** **0** **= CA/AMT TEND**

SUB TOTAL

(To end the setting)
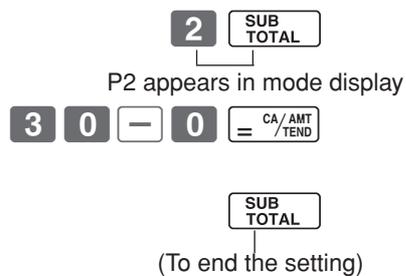
Part-2

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.
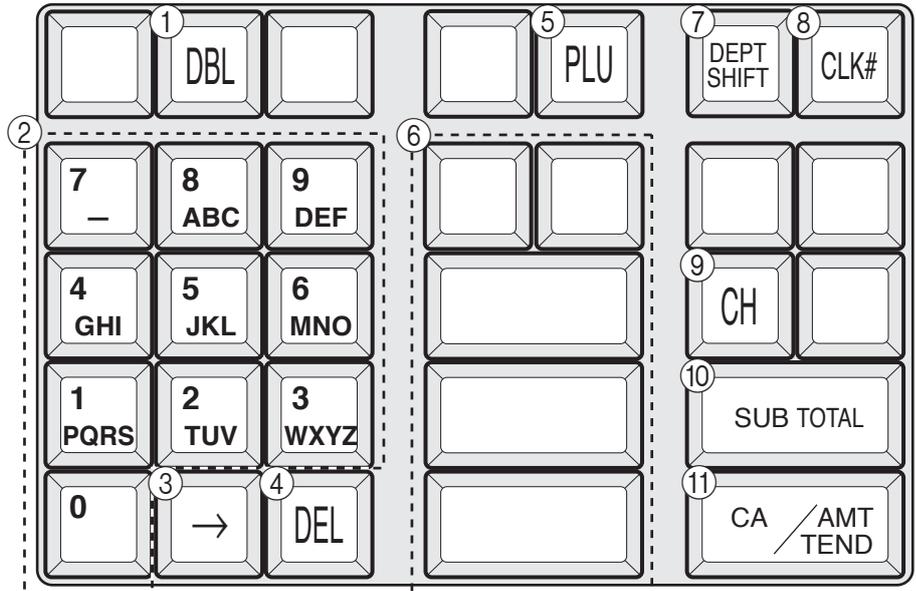
⑨ Receipt message number key (`CH` key).
Use this key to program receipt message.

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	ⱵBA

up to 8 (4 double sized) characters

`2` `SUB TOTAL`

P2 appears in mode display

`+1` `6/11/16`
Department 1

`9` `8` `4` `4` `4` `1` `1` `1` `3` `3` `3` `= CA/AMT TEND`
D A   I   R   Y → refer to 1-11-7

`#/DEPT SHIFT` `−2` `7/12/17`
Department 7

`DBL` `4` `4` `8` `8` `→` `8` `= CA/AMT TEND`
Ⱶ   B   A → refer to 1-11-7

`SUB TOTAL`
(To end the setting)
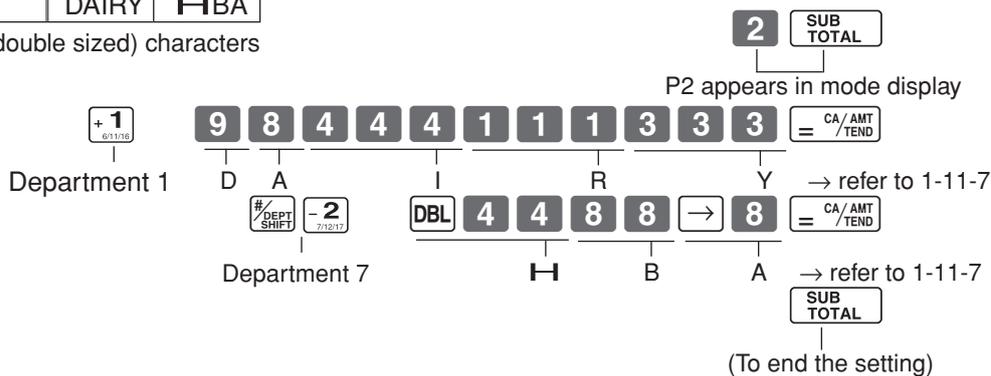
1-11-4 Programming PLU name

Example

PLU (1 ~ 1200)	1	50
Name	DAIRY	⊢BA

up to 8 (4 double sized) characters

2 [SUB TOTAL]

P2 appears in mode display

1 [PLU]

PLU No.

9 **8** **4** **4** **4** **1** **1** **1** **3** **3** **3** [= CA/AMT TEND]

D A I R Y → refer to 1-11-7

5 **0** [PLU] [DBL] **4** **4** **8** **8** [→] **8** [= CA/AMT TEND]

PLU No. ⊢ B A → refer to 1-11-7

[SUB TOTAL]

(To end the setting)
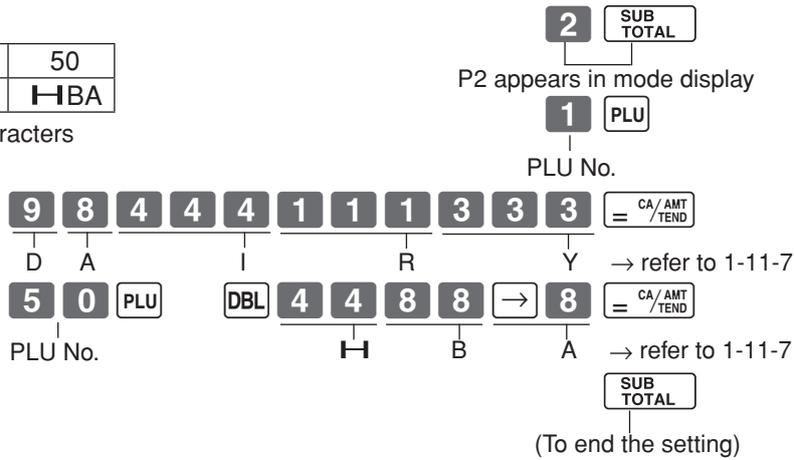
1-11-5 Programming clerk name

Example

Clerk (1~ 8)	1	5
Name	JOHN	KATE

up to 8 (4 double sized) characters

2 [SUB TOTAL]

P2 appears in mode display

1 [% CLK#]

Clerk No.

5 **6** **6** **6** **4** **4** **6** **6** [= CA/AMT TEND]

J O H N → refer to 1-11-7

5 [% CLK#] [DBL] **5** **5** [DBL] **8** [DBL] **2** [DBL] **9** **9** [= CA/AMT TEND]

Clerk No. K A T E → refer to 1-11-7

[SUB TOTAL]

(To end the setting)
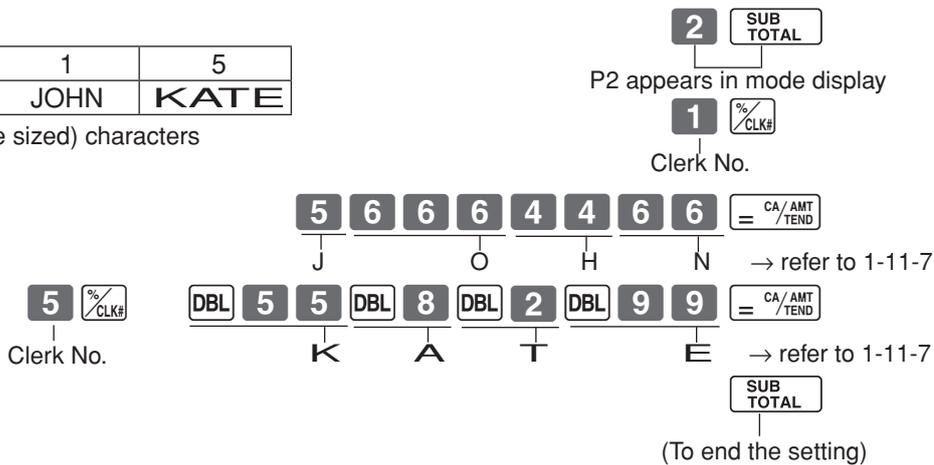
1-11-6 Programming receipt message

Example

Line (1 ~ 5)	2
Message	THANK YOU

up to 24 (12 double sized) characters

2 [SUB TOTAL]

P2 appears in mode display

2 [CH]

Line No.

2 **4** **4** **8** **6** **6** **5** **5** [→] [→]

T H A N K fix "K" space

3 **3** **3** **6** **6** **6** **2** **2** [= CA/AMT TEND]

Y O U → refer to 1-11-7

[SUB TOTAL]

(To end the setting)
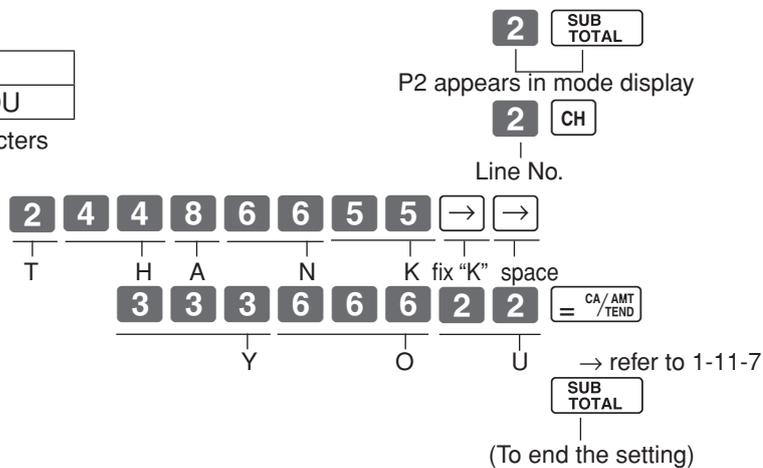
1-11-7 Alphabetical order

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.

A, B, C, a, b, c, 8, … **8** key	: A →B →C →a →b →c →8 →
	A 01 B 02 C 03 a 04 b 05 c 06 8 07
	→Ä →Å →Æ →Á →Â →À →Ã →
	A 08 A 09 A 10 A 11 A 12 A 13 A 14
	→Ç →ä →ä →à →å →æ →á →
	C 15 a 16 a 17 a 18 a 19 a 20 a 21
	→ã →ç → returns to the beginning
	a 22 c 23

D, E, F, d, e, f, 9, … **9** key	: D →E →F →d →e →f →9 →
	D 01 E 02 F 03 d 04 e 05 f 06 9 07
	→Ð →É →Ê →Ë →È →ð →é →
	D 08 E 09 E 10 E 11 E 12 d 13 e 14
	→ê →ë →è →f → returns to the beginning
	e 15 e 16 e 17 f 18

G, H, I, g, h, i, 4, … **4** key	: G →H →I →g →h →i →4 →
	G 01 H 02 I 03 g 04 h 05 i 06 4 07
	→Î →Í →Ï →Ì →ì →Ï →î →
	I 08 I 09 I 10 I 11 I 12 i 13 i 14
	→ì →í →l → returns to the beginning
	i 15 i 16 l 17

J, K, L, j, k, l, 5, **5** key	: J →K →L →j →k →l →5 →
	J 01 K 02 L 03 j 04 k 05 l 06 5 07
	→ returns to the beginning

M, N, O, m, n, o, 6, … **6** key	: M →N →O →m →n →o →6 →
	M 01 N 02 O 03 m 04 n 05 o 06 6 07
	→Ñ →Ö →Ø →Ó →Ô →Ò →Õ →
	N 08 O 09 O 10 O 11 O 12 O 13 O 14
	→ñ →ö →ô →ò →ø →ó →õ →
	n 15 o 16 o 17 o 18 o 19 o 20 o 21
	→ returns to the beginning

P, Q, R, S, p, q, r, s, 1, … **1** key	: P	→Q	→R	→S	→p	→q	→r	→
	P 01	Q 02	R 03	S 04	p 05	q 06	r 07	
	→s	→1	→Þ	→þ	→ß	→ returns to the beginning		
	s 08	1 09	P 10	P 11	ß 12			

T, U, V, t, u, v, 2, … **2** key	: T	→U	→V	→t	→u	→v	→2	→
	T 01	U 02	V 03	t 04	u 05	v 06	2 07	
	→Ü	→Ú	→Û	→Ù	→ü	→û	→ú	→
	U 08	U 09	U 10	U 11	u 12	u 13	u 14	
	→ù	→µ	→ returns to the beginning					
	u 15	u 16						

W, X, Y, Z, w, x, y, z, 3, … **3** key	: W	→X	→Y	→Z	→w	→x	→y	→
	W 01	X 02	Y 03	Z 04	w 05	x 06	y 07	
	→z	→3	→Ý	→ÿ	→ý	→ returns to the beginning		
	z 08	3 09	Y 10	y 11	y 12			

0 **0** key	: 0	→ returns to the beginning						
	0 01							

7, Symbols, … **7** key	: 7	→@	→-	→/	→:	→!	→?	→
	7 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	
	→£	→×	→¿	→¡	→€	→§	→ space	→
	£ 36	× 37	¿ 38	¡ 39	€ 40	§ 41	42	
	→ returns to the beginning							

Cf.

Printing character
Number of the digit for entering character.
Number of the depression of the same key.

A 01 01

A 01
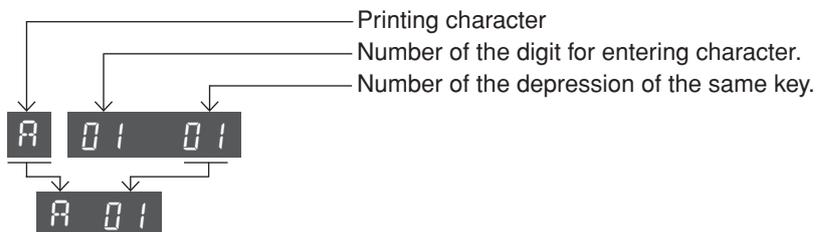
1-12 Printing to read All Preset Data

1-12-1 Printing preset data except PLU settings

Mode Switch

REG · CAL X · Z
OFF ·
RF ·

PGM

Operation   **Printout**

= CA/AMT TEND
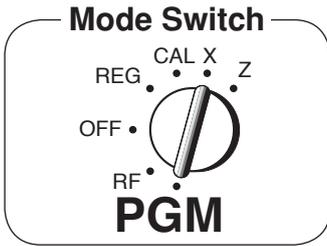
DEPT01	@1.00 — Dept. Name/Unit Price
	0000 — Tax Status/Normal Dept./ Digit Limit/Single Item
DEPT02	@10.00
	0000
DEPT20	@5.00
	0000
-	— Minus/Tax Status
%-(12.34%) *	— Percent Rate/%+ or %–
	0000 — Tax Status/Percent Key Control
10200	0 — Print Control
10800	0 — Key catch tone control
0122	0022 — Date 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

Mode Switch

REG CAL X Z

OFF

RF

PGM
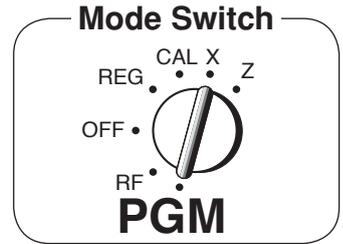
1-12-2 Printing preset PLU settings

Operation   **Printout**

1 = CA/AMT TEND

PLU0001	@1.00 |— PLU Name/Unit Price
#0001	0000 |— PLU No./Program
PLU0002	@2.00
#0002	0002
PLU0003	@3.00
#0003	0000
PLU0004	@4.00
#0004	0000
PLU0100	@1,999.00
#0199	000
PLU1200	@1,200.00
#1200	0000

Stop printing by SUB TOTAL SUB TOTAL .

Part-2

E

2.   Various Operations

2-1 Registration using preset price for Departments.

(Programming: See page 18)

Mode Switch

REG. CAL X Z OFF RF PGM
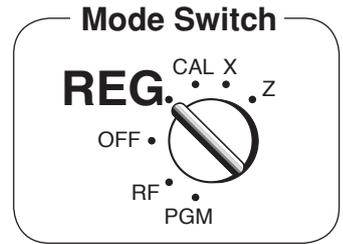
Operation   **Printout**

Example

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

Keys: `+1 6/11/16` `-2 7/12/17` `-2 7/12/17` `4` `X/FOR DATE TIME` `×3 8/13/18` `SUB TOTAL` `5` `0` `0` `0` `= 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
TOTAL         $49.58
CASH             $50.00         — Cash Amount Tendered
CHANGE            $0.42         — Change
```

2-2 Single-Item Sales

(Programming: See page 19)

Keys: `5` `0` `×3 8/13/18`

```
01-08-2010              13:00
REG                      0019

DEPT03            $0.50
CASH           $0.50            — Cash Sales
```

Example 1

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

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

Keys: `1` `0` `0` `-2 7/12/17` `5` `0` `×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           $1.54           — Cash Sales
```

Example 2

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

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

Mode Switch

REG. CAL X Z
OFF
RF
PGM

2-3 Check Sales

Operation		Printout
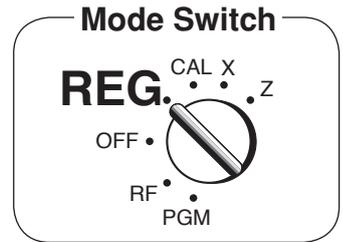
Example

Unit Price	$35.00
Quantity	2
Depts.	4

Operation: `3 5 0 0` `÷4` `÷4` `SUB TOTAL` `CHK /NS`
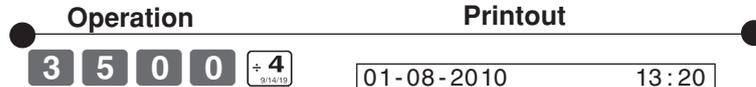
```
01-08-2010          13:20
REG                   0021

DEPT04           $35.00
DEPT04           $35.00
CHEK            $70.00 ── 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: `RC/ T/S1` `1 0 0` `+1` `2 0 0` `-2` `= CA/AMT TEND`
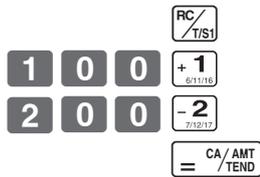
```
01-08-2010          13:30
REG                   0022

DEPT01    T1      $1.00
DEPT02    T1      $2.00
TA1              $3.00
TAX1            $0.12
CA             $3.12
```

2-5 Manual Tax

Example

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

Operation: `1 0 0` `+1` `1 0` `%/CLK#` `2 0 0` `-2` `= CA/AMT TEND`
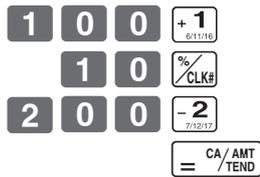
```
01-08-2010          13:40
REG                   0023

NON-TAX          $1.00
M-TAX           $0.10 ── Manual Tax
TAXABLE   T1     $2.00
TA1             $2.00
TAX1           $0.08
CASH           $3.18
```

%/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`
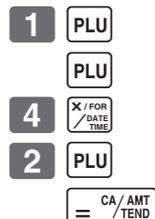
```
01-08-2010          13:50
REG                   0024

PLU0001          $1.00
PLU0001          $1.00 ── Repeat
     4 X      @2.00    ── Multiplication
PLU0002          $8.00 ── Preset Unit Price
CASH           $10.00 ── Cash Amount Tendered
```

2-7 PLU Single-Item Sale

(Programming: See page 23)

Example

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

`3` `PLU`

```
01-08-2010              14:00
REG                       0025

PLU0003        T1      $1.00
TA1                    $1.00 ── Taxable Amount
TAX1                   $0.04 ── Tax
CASH                 $1.04
```

- 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

Example

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

`3` `0` `0` `0` `-2`
`2` `5` `0` `0` `×3`
`SUB TOTAL`
`2` `0` `0` `0` `= CA/AMT TEND`
`CHK /NS`

```
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 `POST RECEIPT`.

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 `= CA/AMT TEND`, `CH` or `CHK /NS`.

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`
`SUB TOTAL`
`5` `0` `0` `= CA/AMT TEND`

(Receipt is not issued.)

`POST RECEIPT`

(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
```
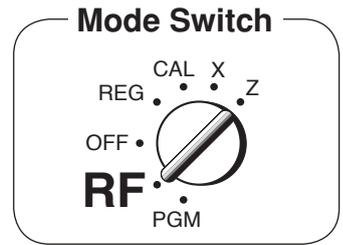
E

Mode Switch

```
        CAL  X
  REG  .  . .  . Z
  OFF .
  RF ·
        PGM
```

2-10 Refund

Example

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

Operation

`1` `0` `0` `-2` (7/12/17)
`2` `0` `0` `×3` (8/13/18)
`SUB TOTAL`
`= CA/AMT TEND`

Printout
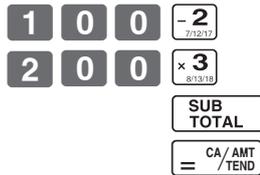
```
01-08-2010          14:30
RF                    0028  ── Refund Mode Symbol

TAXABLE      T1      $1.00
DEPT03               $2.00
TA1                  $1.00
TAX1                 $0.04
CASH               $3.04
```

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)

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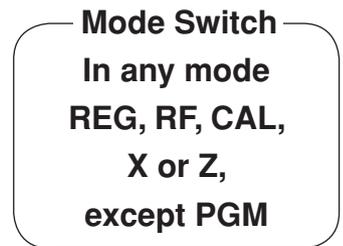
Cashier assignment system is used to control each cashier (or clerk) sales total. When you select this function on page 21, you can get 8 cashiers (or clerk) sales data.
Cashier assignment must be performed prior to starting registration or any other operation, except Program mode.

`1` `%/CLK#`

Select a number
from list A

Selections		
Sign off (cancel) the assignment of cashier ID No.	`0`	**A**
Assign a cashier ID No. 1 through 8.	`1` ~ `8`	
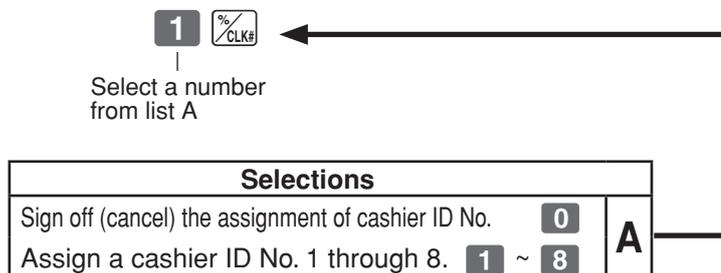
• Currently assigned cashier (or clerk) ID number is printed on the receipt or journal for each transaction.
• The assigned clerk memory number is automatically signed off when the mode key is set to OFF position.
• The assigned cashier (or clerk) sales totals with ID number are printed on the receipt or journal when you perform daily X/Z sales report.

Mode Switch

REG. CAL X Z
OFF
RF
PGM
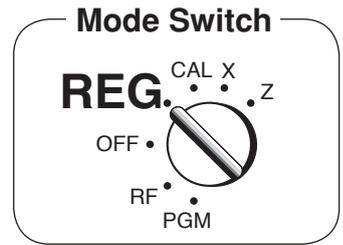
2-12 Other registrations

Operation   **Display**

2-12-1 Reading the Time and Date

X / FOR DATE TIME $13-53$ ___   Hour/Minute

X / FOR DATE TIME $01-08-10$ Month/Date/Year

AC C 0.00

• Flashes per second

Mode Switch

REG CAL X Z
OFF
RF
PGM

Adjusting the Time   **Operation**   **Display**

• Turn the Mode Switch to PGM.
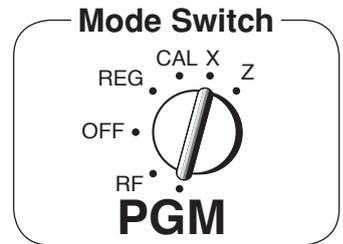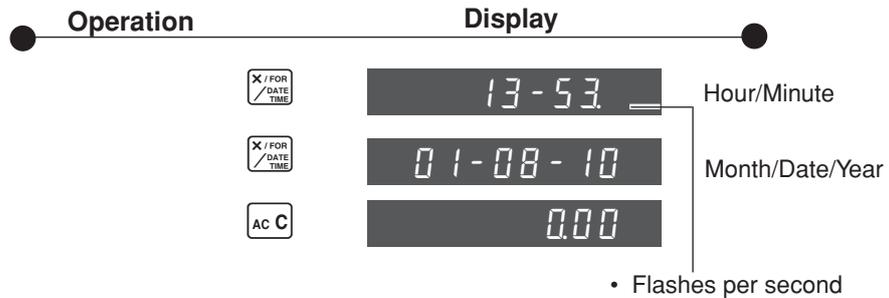
Example
Current time = 13:58

1 SUB TOTAL $P \qquad 0.00$

1 **3** **5** **8** X / FOR DATE TIME $13-58 \ 02$

Current Time: Hour Minute   AC C $P \qquad 0.00$

• Enter current time in 24 hour system.

Mode Switch

REG CAL X Z
OFF
RF
PGM

Adjusting the Date   **Operation**   **Display**

• Turn the Mode Switch to PGM.
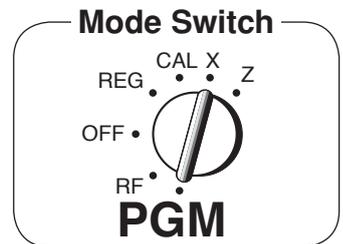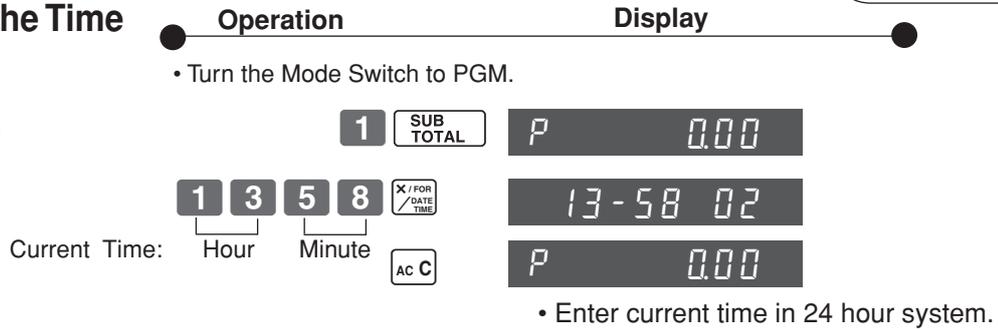
Example
Current date = January 8, 2010

1 SUB TOTAL $P \qquad 0.00$

0 **1** **0** **8** **1** **0** X / FOR DATE TIME $01-08-10$

Current date: Month Day Year   AC C $P \qquad 0.00$

• Enter current date in 6 digits.
• Enter the last 2 digits for year set. (2010 → 10)

Mode Switch

REG. CAL X Z
OFF
RF
PGM

Operation	Printout
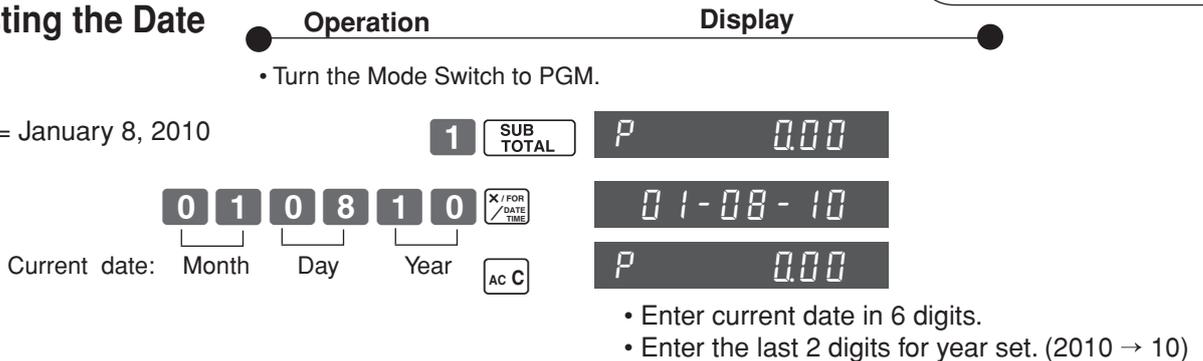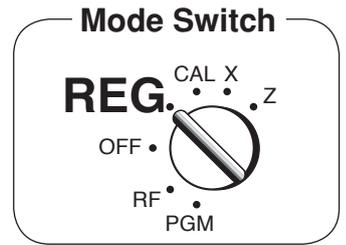
2-12-2 Paid out from cash in drawer

`1` `2` `3` `4`
`5` `6` `7` `8` `#/DEPT SHIFT`

Enter reference No.

`1` `0` `0` `0` `PD/T/S2`

```
#              12345678   ── Reference Number

01-08-2010        17:30
REG               0128

PD            $10.00      ── Paid Out Amount
```

Operation	Printout

2-12-3 Cash received on account

`6` `0` `0` `RC/T/S1`

```
01-08-2010        17:35
REG               0129

RC             $6.00      ── Received On Account
                             Amount
```

Operation	Printout

2-12-4 Registering identification numbers

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

`5` `0` `+1` 6/11/16
`1` `2` `3` `4`
`5` `6` `7` `8` `#/DEPT SHIFT`
`= CA/AMT TEND`

```
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.

Operation	Printout

`1` `0` `0` `-2` 7/12/17
`2` `0` `0` `÷4` 9/14/19
`SUB TOTAL`
`5` `0` `ERR CORR`
`= CA/AMT TEND`

```
01-08-2010        17:55
REG               0131

DEPT02    T1   $1.00
DEPT04         $2.00
ST             $3.04      ── See page 22 to print
-             -0.50          the subtotal line.
TA1            $1.00
TX1            $0.04
CA             $2.54
```

E

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2-12-6 Premium/ Discount

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

[1] [0] [0] [-2 7/12/17]
[%/CLK#]

•Be sure to use [SUB TOTAL] key when you wish to apply a premium/ discoung to the subtotal.

[2] [0] [0] [-2 7/12/17]
[3] [0] [0] [-2 7/12/17]
[SUB TOTAL]

•7% premium/discount applied to transaction total.

[7] [%/CLK#]
[= CA/AMT TEND]

•For programming the [%/CLK#] key as percent minus or percent plus, see page 20.

•For programming percent rate, see page 18.

Premium

DEPT02	T1	$1.00
%+(2.5%)	T1	$0.03 ─ *1
DEPT02	T1	$2.00
DEPT02	T1	$3.00
ST		$6.03 ─ *2
%+(7%)	T1	$0.42 ─ *3
TA1		$6.45
TAX1		$0.26
CASH		$6.71

Discount

DEPT02	T1	$1.00
%-(2.5%)		-0.03 ─ *1
DEPT02	T1	$2.00
DEPT02	T1	$3.00
ST		$5.97 ─ *2
%-(7%)	T1	-0.42 ─ *3
TA1		$5.55
TAX1		$0.22
CASH		$5.77

*1 Premium/ Discount Rate, Premium/ Discount Amount
*2 Subtotal
*3 Premium/ Discount Rate, Premium/ Discount Amount

2-13 PLU report

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

Mode Switch
Z
REG • CAL X
OFF •
RF •
PGM
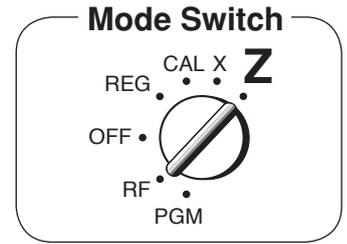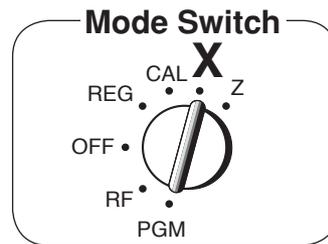
Operation	Printout

Mode Switch to (X) (Read)

[1] [= CA/AMT TEND]

Mode Switch to (Z) (Reset)

[1] [= CA/AMT TEND]

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

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

Stop printing by [SUB TOTAL] [SUB TOTAL].

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.

Mode Switch

REG. CAL X . . Z / OFF • / RF • • / PGM

Mode Switch

CAL X . . Z / REG • / OFF • / RF • • / PGM
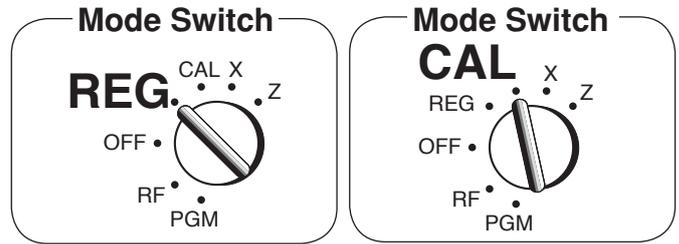
1-1 Calculation examples

Operation	Display
AC c	$\begin{bmatrix} & 0. \end{bmatrix}$
5 +¹ 1 AC c	
(Cancels item entered.)	

	Operation	Display
5+3–2=	5 +¹ 3 –² 2 = CA/AMT TEND	6.
(23–56) 78=	2 3 –² 5 6 ×³ 7 8 = CA/AMT TEND	-2574.
(4 3–6) 3.5+8=	4 ×³ 3 –² 6 ÷⁴ 3 · 5 +¹ 8 = CA/AMT TEND	9.714
12% on 1500	1 5 0 0 ×³ 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

Operation	Display
1 0 00 +1 6/11/16 2 0 00 +1 6/11/16	10.

On CAL mode

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

PLU ÷⁴ 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.

Operation	Printout
PLU = CA/AMT TEND	
PLU = CA/AMT TEND	
PLU = CA/AMT TEND	

Memory recall

```
DEPT01            $10.00
DEPT01            $10.00
TOTAL            $30.00
CASH              $10.00
CASH              $10.00
CASH              $10.00
CHANGE             $0.00
```

E

Mode Switch

CAL X

REG · · · Z

OFF ·

RF ·

PGM

1-3 Setting for calcu-
lator operation

3 [SUB TOTAL]

P3 appears in mode display

1 **0** **2** **2** [SUB TOTAL]

Program Code No.

0 [= CA/AMT TEND]

Select a number from list A.

[SUB TOTAL]

(To end the setting)
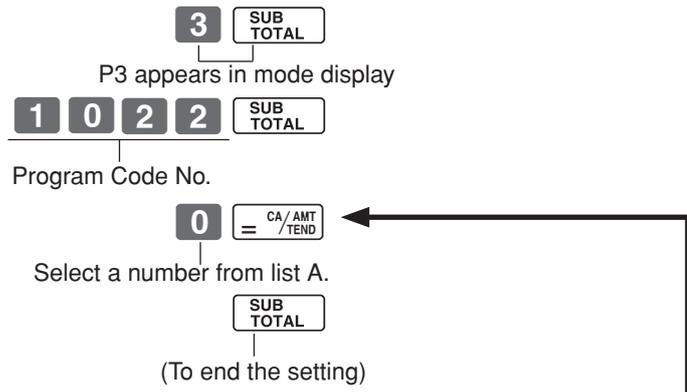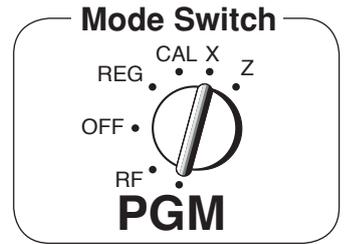
			Selections	
Open drawer whenever [= CA/AMT TEND] is pressed.*				
Open drawer whenever [CHK /NS] is pressed.*				
Print No. of Equal key operations on General Control X and Z reports.				
Yes	No	No	**0**	A
		Yes	**1**	
	Yes	No	**2**	
		Yes	**3**	
No	No	No	**4**	
		Yes	**5**	
	Yes	No	**6**	
		Yes	**7**	

*Drawer does not open during registration procedures even if you press [= CA/AMT TEND] or [CHK /NS] 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 [= CA/AMT TEND].
2	E08 appears on the display.	Sign on operation is not performed.	Prior to starting registration of any other operation, press [1] ~ [8] and then [% CLK#].
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 fhe 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.

1-3 When the L sign appears on the display

About the low battery indicator...
The following shows the low battery indicator.

```
L          0.00
```

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 ceratain level.
· The batteries loaded in the unit are dead.
To clear this sign, press [AC C] 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 ∅ (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 3/8"(H)×13"(W)×14 3/16"(D) / 9 lbs
(188 mm(H)×330 mm(W)×360 mm(D)/ 4kg) (PCR-T280)
8 1/16"(H)×16 1/8"(W)×17 11/16"(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.

For a period of ninety (90) days, upon proof of license, Casio will, at its option, replace defective terminal resident software or programmable software, correct significant program errors, or refund the license fee for such software. Significant program errors will be significant deviations from written documentation or specifications. These are your sole remedies for any breach of warranty. In no event will Casio's liability exceed the license fee, if any, for such software. This warranty will not apply if the product has been misused, abused, or altered.

Without limiting the foregoing, battery leakage, bending of the unit, a broken display tube, and any cracks or breaks in the display will be presumed to have resulted from misuse or abuse. To obtain warranty service you must take or ship the product, freight prepaid, with a copy of the sales receipt or other proof of purchase and the date of purchase, to a Casio Authorized Service Center. Due to the possibility of damage or loss, it is recommended when shipping the product to a Casio Authorized Service Center that you package the product securely and ship it insured. CASIO HEREBY EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. NO RESPONSIBILITY IS ASSUMED FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION DAMAGES RESULTING FROM MATHEMATICAL INACCURACY OF THE PRODUCT OR LOSS OF STORED DATA. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. This warranty gives you specific rights, and you may also have other rights which vary from state to state.

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:..

CASIO.