ELECTRONIC CASH REGISTER

PCR-T2000

THANK YOU
YOUR RECEIPT
CALL AGAIN !

GROCERY
DAIRY
H.B.A.
FROZEN
FOOD
DELICATESSEN

CI Canada

USER'S MANUAL

CASIO

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 shorting, 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 shorting, fire and electric shock.

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

⚠ Warning!

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 (100V~240V) . Use of an outlet with a different voltage from the rating creates the danger of malfunction, fire, and electric shock. Overloading an electric outlet creates the danger of overheating and fire.

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

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

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

Do not allow the power cord or plug to become damaged, and never try to modify them in any way. Continued use of a damaged power cord can cause deterioration of the insulation, exposure of internal wiring, and shorting, 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.

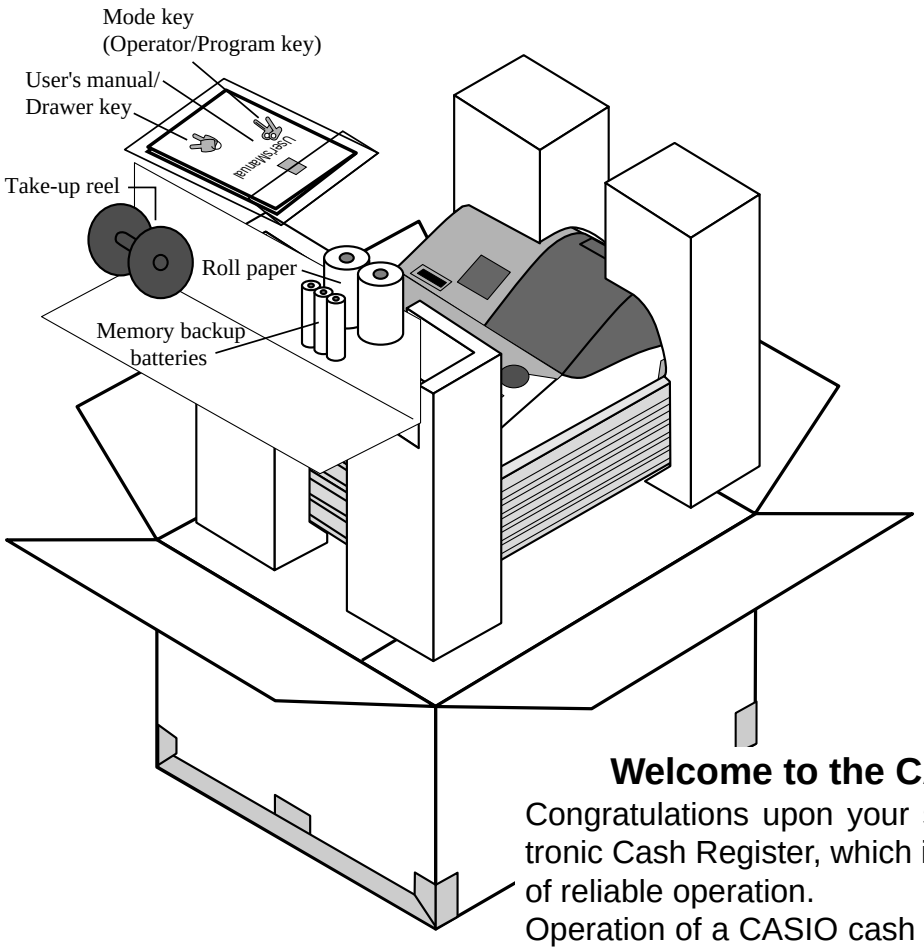
Do not overlay bend the power cord, do not allow it to be caught between desks or other furniture, and never place heavy objects on top of the power cord. Doing so can cause shorting or breaking of the power cord, creating the danger of fire and electric shock.

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.

Never touch the printer head and the platen.

Unpacking the register



Welcome to the CASIO PCR-T2000!

Congratulations upon your selection of a CASIO Electronic Cash Register, which is designed to provide years of reliable operation.

Operation of a CASIO cash register is simple enough to be mastered without special training. Everything you need to know is included in this manual, so keep it on hand for reference.

Consult your CASIO dealer if you have any questions about points not specifically covered in this manual.

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

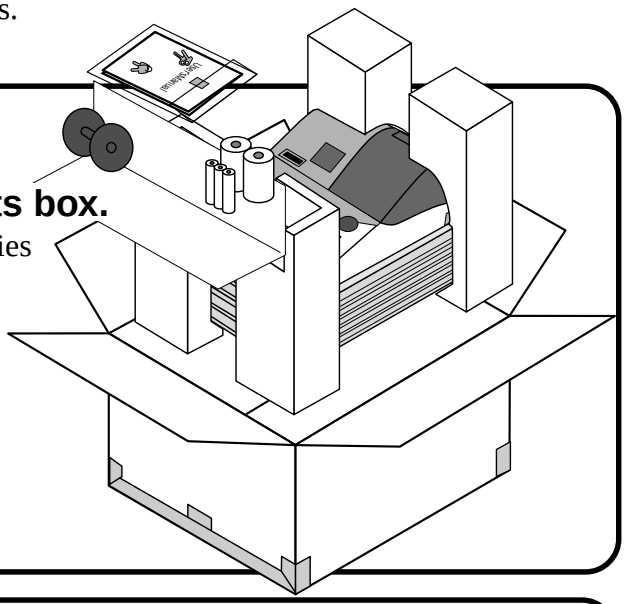
FCC WARNING: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This 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.

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

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

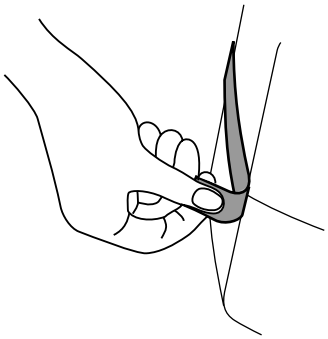
Please keep all information for future reference.

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



1. Remove the cash register from its box.

Make sure that all of the parts and accessories are included.



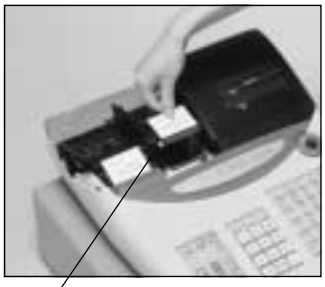
2. Remove the tape holding parts of the cash register in place.

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

3. Install the three memory backup batteries.

printer cover

1. Remove the printer cover and open the platen arm.



platen arm

2. Remove the battery compartment cover. Slide the cover and pull it up.

battery compartment cover

3. Install the three memory backup batteries. (continued…)

3. Note the (+) and (–) markings in the battery compartment. Load a set of three new SUM-3 (UM-3) batteries so that their positive (+) and negative (–) ends are facing as indicated by the markings.

4. Replace the battery compartment cover.

5. Close the platen arm and replace the printer cover.

Important!

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

Precaution!

Incorrectly using batteries can cause them to burst or leak, possibly damaging the interior of the cash register. Note the following.

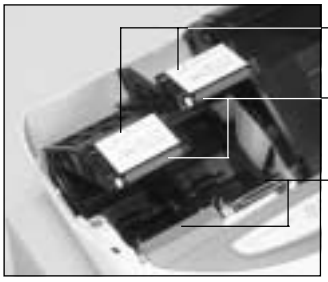
- Be sure that the positive (+) and negative (–) ends of the batteries are facing as marked in the battery compartment when you load them into the unit.
- Never mix batteries of different types.
- Never mix old batteries with new ones.
- Never leave dead batteries in the battery compartment.
- Remove the batteries if you do not plan to use the cash register for long periods.
- Replace the batteries at least once every two years, no matter how much the cash register is used during the period.

WARNING!

- Never try to recharge the batteries supplied with the unit.
- Do not expose batteries to direct heat, let them become shorted or try to take them apart.

Keep batteries out of the reach of small children. If your child should swallow a battery, consult a physician immediately.

4. Install receipt/journal paper.



Important!

Take away the head protection sheet from the printer and close the platen arm.

Caution! (in handling the thermal paper)

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

To install receipt paper

Step 1

Remove the printer cover.

Step 2

Open the platen arm.

Step 3

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

Step 4

Put the leading end of the paper over the printer.

Step 5

Close the platen arm slowly until it locks steadily.

Complete

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

To install journal paper

Step 1

Remove the printer cover.

Step 2

Open the platen arm.

Step 3

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

Step 4

Put the leading end of the paper over the printer.

Step 5

Close the platen arm slowly until it locks steadily.

Step 6

Remove the paper guide of the take-up reel.

Step 7

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

Step 8

Replace the paper guide of the take-up reel.

Step 9

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

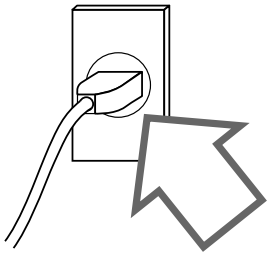
Step 10

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

During machine installation, press the JOURNAL FEED key after power on.

Complete

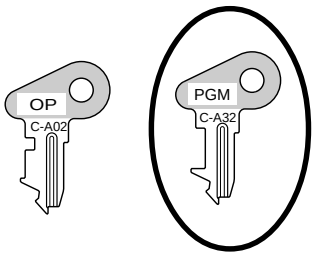
Replace the printer cover.

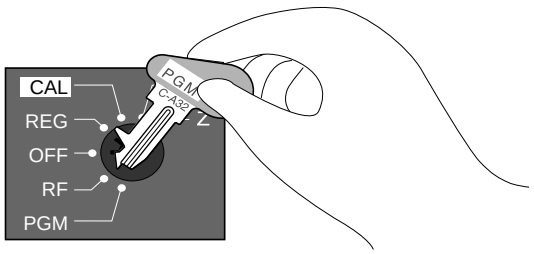


5. Plug the cash register into a wall outlet.

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

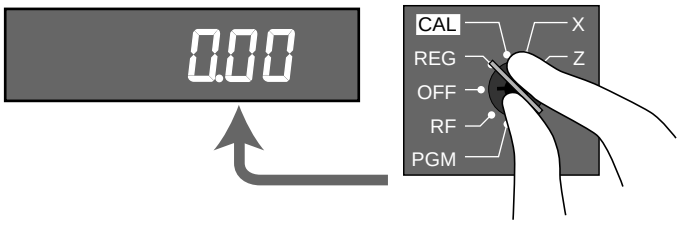
6. Insert the mode key marked “PGM” into the mode switch.



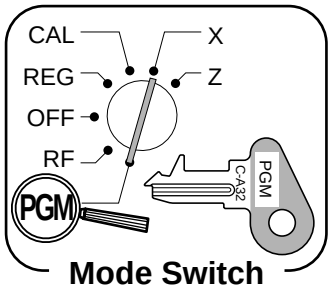


7. Turn the mode key to the “REG” position.

The display should change to the following.



8. Set the date.



Mode Switch

→ 1 SUB TOTAL → □□ □□ □□ → × / FOR / DATE TIME → C/AC

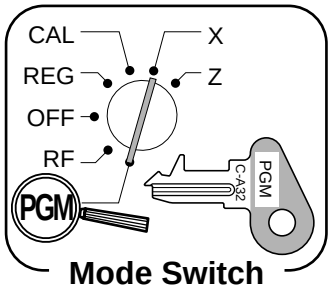
Year Month Day

Current date

Example:

June 15, 2002 ⇨ 0 2 0 6 1 5

9. Set the time.



Mode Switch

→ 1 SUB TOTAL → □□□□ → × / FOR / DATE TIME → C/AC

Current time

Example:

08:20 AM ⇨ 0 8 2 0

09:45 PM ⇨ 2 1 4 5

10. Tax table programming

Programming automatic tax calculation

Important!

After you program the tax calculations, you also have to individually specify which departments (page 27) and PLUs (page 29) are to be taxed.

For this cash register to be able to automatically register state sales tax, you must program its tax tables with tax calculation data from the tax table for your state. There are three tax tables (U. S.) and four tax tables (Canada) that you can program for automatic calculation of three/four separate sales taxes.

Programming for the U.S. tax tables procedure

The procedure to setup the tax table is printed on the guidance receipt. First issue the guidance receitpt by the HELP key and follow it to set the tax table.

HELP ⇨ 2 HELP ⇨ 0 1 0 1 HELP (Alabama)

```
ENTER NUMBER THEN
PRESS <HELP> KEY.

01:HOW TO PROGRAM
   DATE AND TIME?

02:HOW TO PROGRAM
   TAX TABLE?

     :
     :

07:WHAT IS THE
   ELECTRONIC JOURNAL?
```

```
02:HOW TO PROGRAM
   TAX TABLE?

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

0101:ALABAMA
0201:ALASKA
0301:ARIZONA
0401:ARKANSAS
0501:CALIFORNIA
       :
       :
5001:WISCONSIN
5101:WYOMING
```

```
PLEASE SELECT YOUR
DISTRICT NUMBER FROM
BELOW TABLE.

1)TURN MODE KEY TO PGM.

2)3<SUBTOTAL>

3)025<SUBTOTAL>

SET TABLE1
4)XXXX <CASH>KEY.

SET TABLE2(IF NECESSARY)
5)XXXX <CASH>KEY.

6)<SUBTOTAL>

XXXX IS DISTRICT NUMBER

ALABAMA
0101: 4%   State
0102: 4.5% State & Local
0103: 5%   State & Local
0104: 5.5% State & Local
       :
       :
0111: 9 %  State & Local
```

Follow these steps.

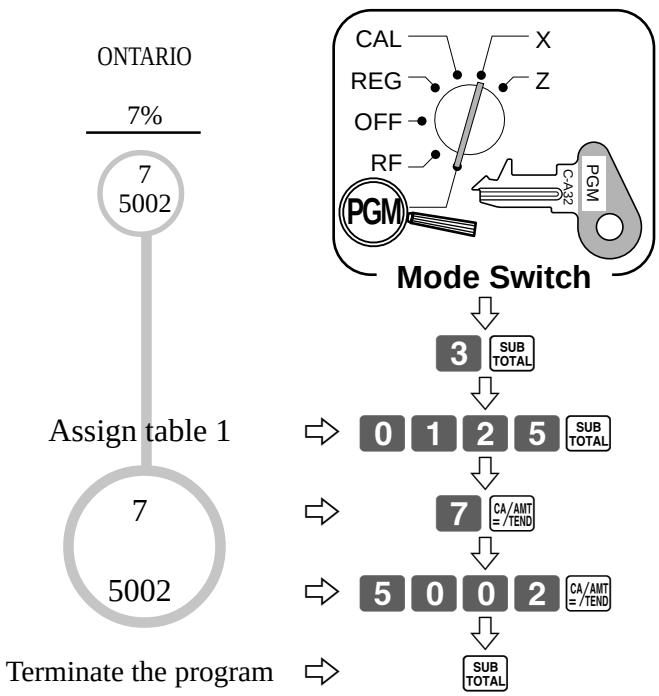
10. Tax table programming (continued)

Programming for Canadian tax tables procedure

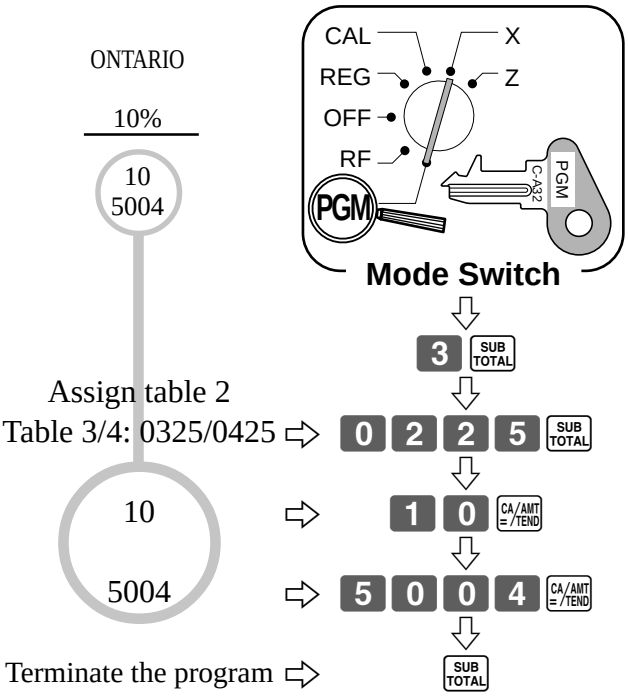
State sales tax calculation data tables for all of the states that make up all Canadian provinces are included on this page. This data is current as of October 30, 1994. Simply find your province in the tax tables and input the data shown in its table.

Programming tax table

Example 1: Federal tax 7% (Add-on/round-off)



Example 2: Ontario 10 % (Tax-on-tax/Round-off)



- **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.

CANADIAN TAX TABLES

* Must be programmed into Tax table 2 ~ 4.

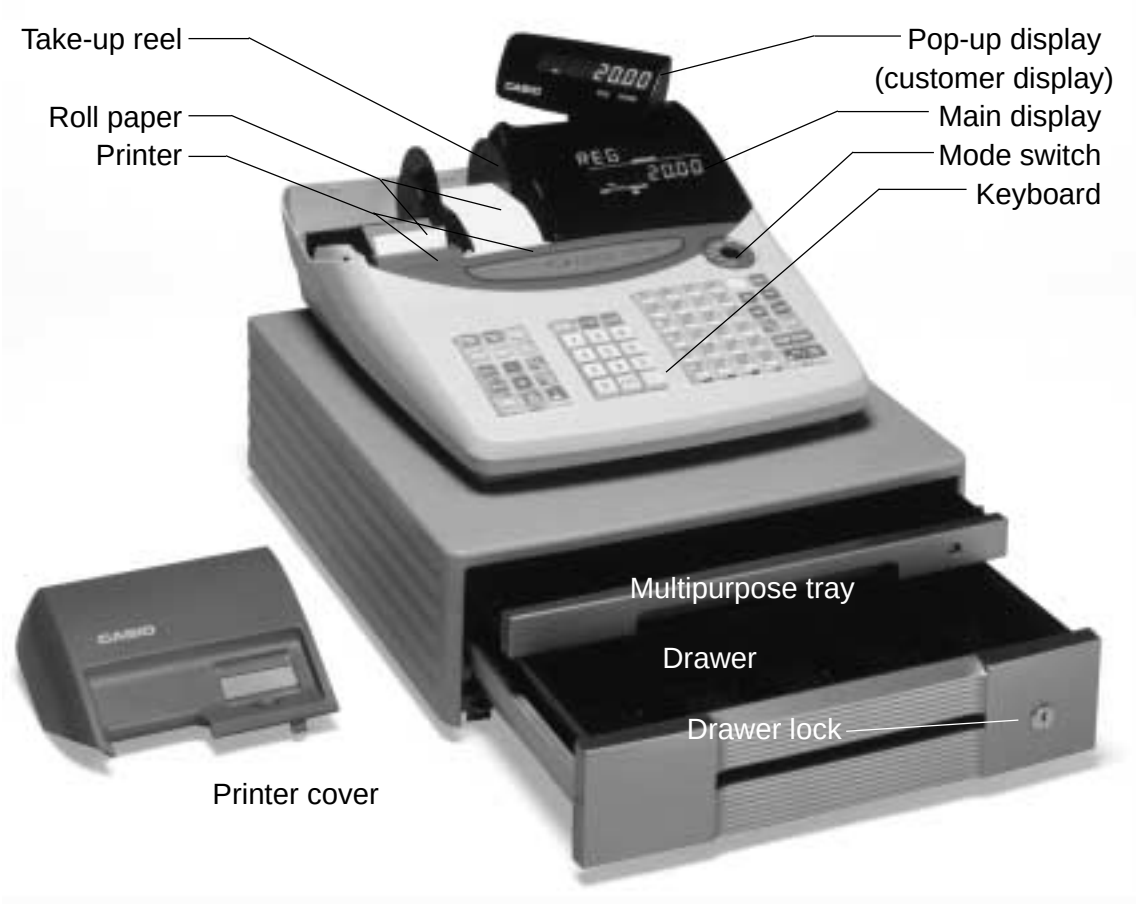
* NOVA SCOTIA 10%	* ONTARIO 10%	* QUEBEC 10%	* NEW FOUNDLAND 12%	* ONTARIO 12%	* BRITISH COLUMBIA 6%	MANITOBA/ SASKATCHEWAN 6%	ONTARIO 7%	* N.B. & P.E.I 8%	QUEBEC 9%
10	10	10	12	0	0	6	7	0	9
5004	5004	5004	5004	1	1	5002	5002	1	9002
				4	2			3	
				25	14			25	
				25	24			25	
				25	41			31	
				29	58			43	
				37	74			56	
				45					
				54					

Important!

Be sure you use the federal sales tax data with your provincial sales tax data. Even if your province use the same tax rate as another province, inputting the wrong data will result incorrect tax calculations.

General guide

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

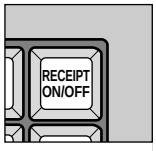


Roll paper

You can use the roll paper to print receipts and a journal (page 9 ~ 10).

Receipt On/Off key

When you are using the printer for receipt printer, you can use this key (in the REG and RF modes only) to turn the printer on and off. If a customer asks for a receipt while receipt printing is turned off by this key, you can issue a post-finalization receipt (page 45).



Mode key

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

Drawer

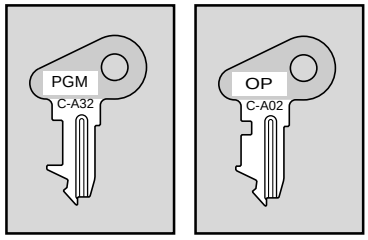
The drawer opens automatically whenever you finalize a registration and whenever you issue a read or reset report. The drawer will not open if it is locked with the drawer key.

Drawer lock

Use the drawer key to lock and unlock the drawer.

Multipurpose tray

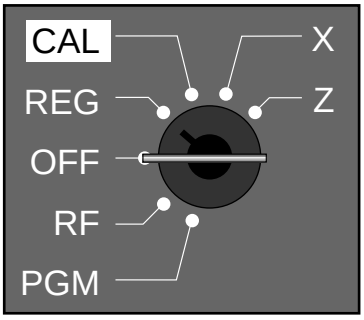
This tray can always be opened if the locking knob is in the unlock position.
Use the locking knob to lock and unlock this tray.



Program key **Operator key**

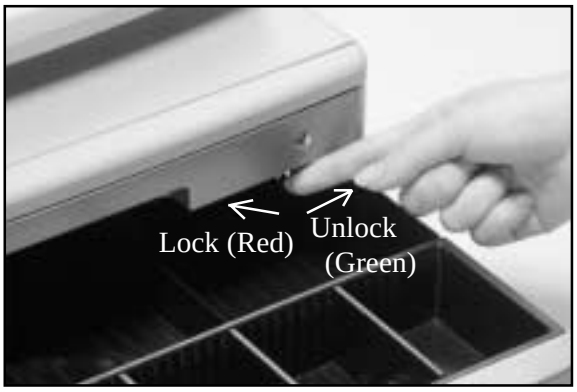
Mode switch

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



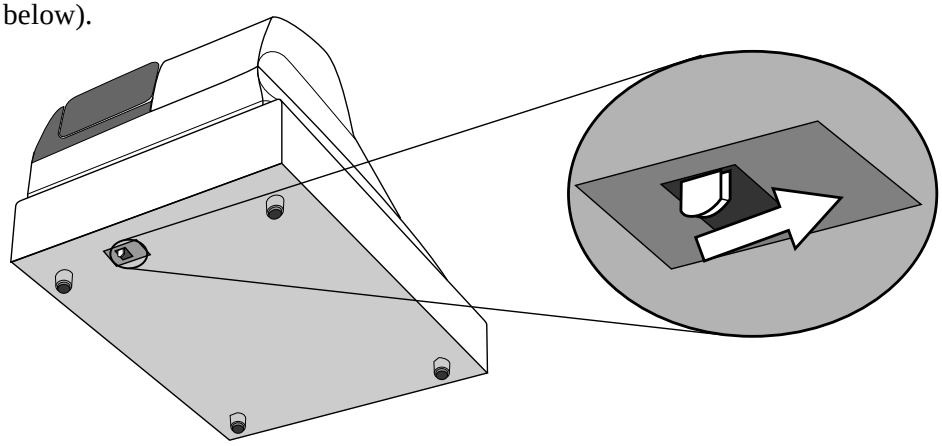
Mode Switch	Mode Name	Description
Z	**RESET**	Reads sales data in memory and clears the data.
X	**READ**	Reads sales data in memory without clearing the data.
CAL	**CALCULATOR**	Use this mode for calculator.
REG	**REGISTER**	Use this mode for normal registration.
OFF	**STAND-BY**	Cash register standing by.
RF	**REFUND**	Use this mode to register refund transaction.
PGM	**PROGRAM**	Use this mode for cash register programming.

Lock/unlock the multipurpose tray



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!

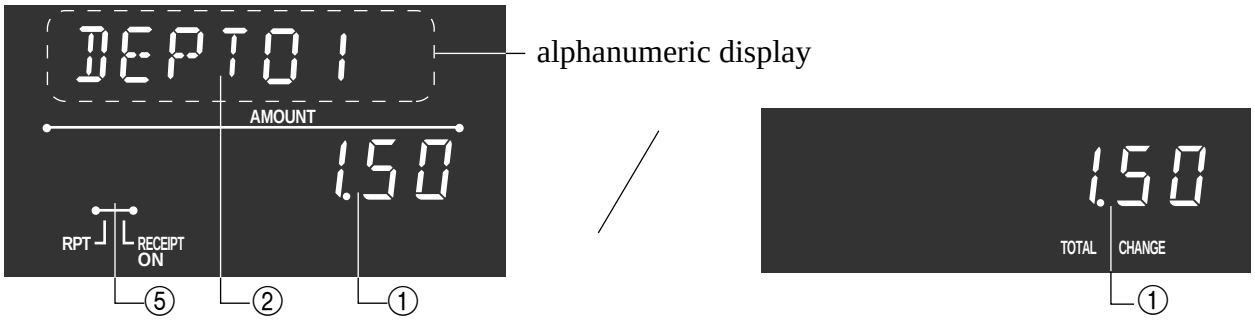
The drawer will not open, if it is locked with a drawer lock key.

Displays

Main Display
(alphanumeric + numeric display)

Pop-up (customer) display
(numeric display)

Item registration (by department/PLU)



Repeat registration

Totalize operation

① Amount/Quantity
This part of the display shows monetary amounts. It also can be used to show the current time. (The current date is shown in the alphanumeric display.)

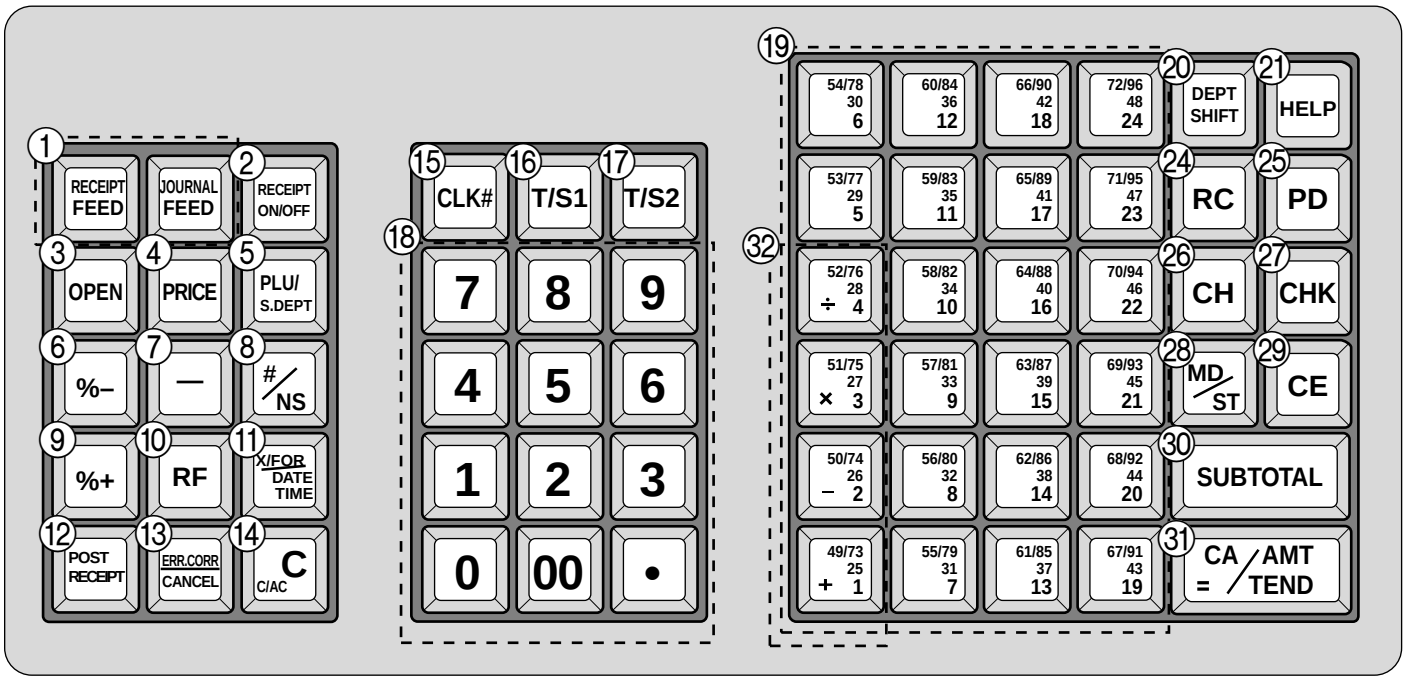
② Item/Key descriptor
When you register an item or key, the item/key descriptor appears here.
Mode descriptor is also displayed here.

③ Number of repeats
Anytime you perform a repeat registration (page 26, 30), the number of repeats appears here.
Note that only one digit is displayed for the number of repeats. This means that a "5" could mean 5, 15 or even 25 repeats.

④ Total/Change indicators
When the TOTAL indicator is lit, the displayed value is monetary total or subtotal amount.
When the CHANGE indicator is lit, the displayed value is the change due.

⑤ Receipt on/off indicators
When the register is in "issuing receipt" mode, under-bar sign is lit on this digit. (REG/RF mode, during standing-by only)

Keyboard



for the U.S.

• Register Mode

① **Paper feed key** RECEIPT FEED, JOURNAL FEED
Hold this key down to feed paper from the printer.

② **Receipt on/off key** RECEIPT ON/OFF
Use this key twice to change the status "receipt issue" or "no receipt." In case of "receipt issue", the "RECEIPT ON" indicator is lit.

③ **Open key** OPEN
Use this key to temporarily release a limitation on the number of digits that can be input for a unit price.

④ **Price key** PRICE
Use this key to register unit prices for subdepartment.

⑤ **PLU/Subdepartment key** PLU/S.DEPT
Use this key to input PLU (subdepartment) numbers.

⑥ **Discount key** %–
Use this key to register discounts.

⑦ **Minus key** —
Use this key to input values for subtraction.

⑧ **Non-add/No sale key** #/NS
Non-add key: Use this key to print reference number (to identify a personal check, credit card, etc.) during a transaction, use this key after some numerical entries.
No sale key: Use this key to open the drawer without registering anything.

⑨ **Premium key** %+
Use this key to register premiums.

⑩ **Refund key** RF
Use this key to input refund amounts and void certain entries.

⑪ **Multiplication/For/Date/Time key** ×/FOR DATE TIME
Use this key to input a quantity for a multiplication and registration of split sales of packaged items. Between transactions, this key displays the current time and date.

⑫ **Post receipt key** POST RECEIPT
Use this key to produce a post-finalization receipt (page 45).

⑬ **Error correct/Cancel key** ERR.CORR. CANCEL
Use this key to correct registration errors and to cancel registration of entire transactions.

⑭ **Clear key** C C/AC
Use this key to clear an entry that has not yet been registered.

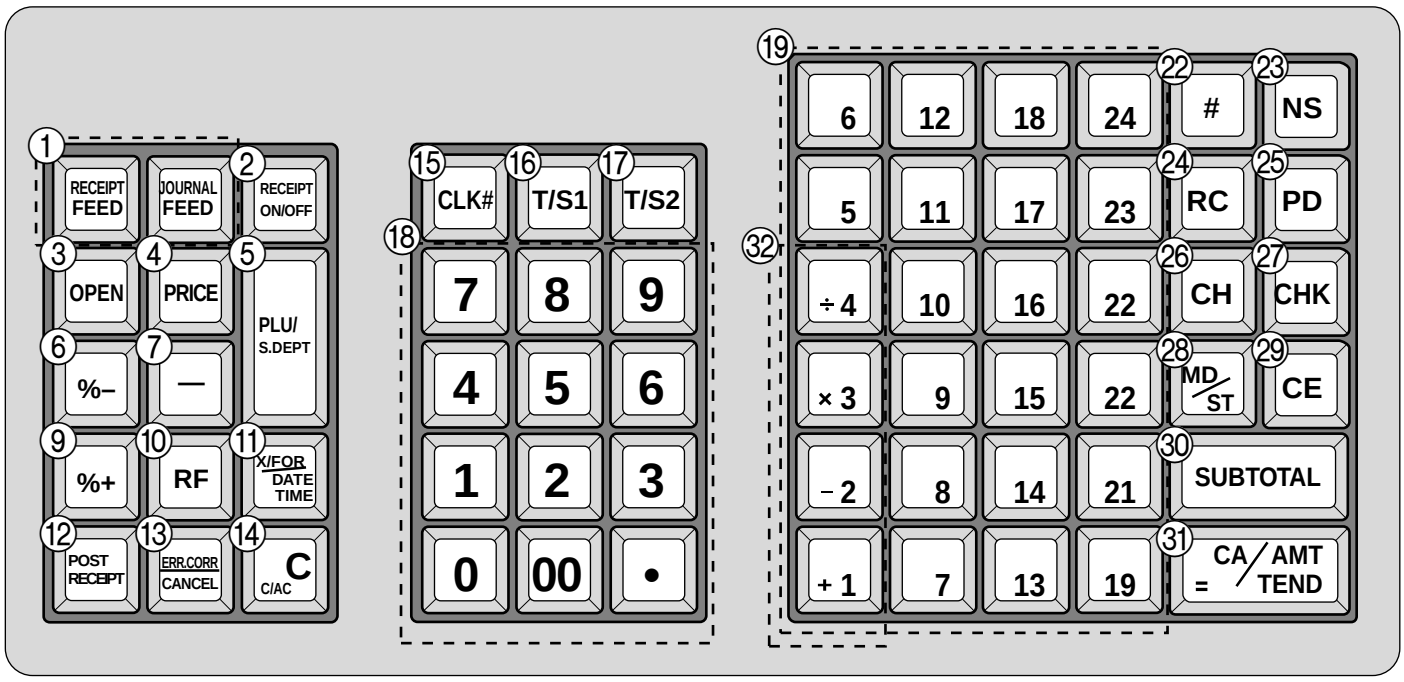
⑮ **Clerk number key** CLK#
Use this key to sign clerk on and off the register.

⑯ **Tax shift 1 key** T/S1
Use this key without a numeric entry to change the Taxable 1 status of the next item.

⑰ **Tax shift 2 key** T/S2
Use this key without a numeric entry to change the Taxable 2 status of the next item.

⑱ **Ten key pad** 0, 1, ~ 9, 00, •
Use these keys to input numbers.

⑲ **Department keys** 49/73/25/+1, ~ 72/96/48/24 (+1, ~ 24)
Use these keys to register items to departments.



for Canada

⑳ **Department shift key** [DEPT SHIFT]

Use this key to shift the department key number from 1 through 24 to 25 through 48, 49 to 72, 73 to 96.

[49/73 +25 +1] ⇨ Dept 01
[50/74 –26 –2] ⇨ Dept 02
:
[72/96 ×48 ×24] ⇨ Dept 24
[DEPT SHIFT] [49/73 +25 +1] ⇨ Dept 25
:
[DEPT SHIFT] [72/96 ×48 ×24] ⇨ Dept 48

[DEPT SHIFT] [DEPT SHIFT] [49/73 +25 +1] ⇨ Dept 49
[DEPT SHIFT] [DEPT SHIFT] [50/74 –26 –2] ⇨ Dept 50
:
[DEPT SHIFT] [DEPT SHIFT] [72/96 ×48 ×24] ⇨ Dept 72
[DEPT SHIFT] [DEPT SHIFT] [DEPT SHIFT] [49/73 +25 +1] ⇨ Dept 73
:
[DEPT SHIFT] [DEPT SHIFT] [DEPT SHIFT] [72/96 ×48 ×24] ⇨ Dept 96

㉑ **Help key** [HELP]

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

㉒ **Non-add key** [#]

Use this key to print reference number (to identify a personal check, credit card, etc.) during a transaction, use this key after some numerical entries.

㉓ **No sale key** [NS]

Use this key to open the drawer without registering anything.

㉔ **Received on account key** [RC]

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

㉕ **Paid out key** [PD]

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

㉖ **Charge key** [CH]

Use this key to register a charge sale.

㉗ **Check key** [CHK]

Use this key to register a check tender.

㉘ **Merchandise subtotal key** [MD/ST]

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

㉙ **Currency exchange key** [CE]

Use this key for calculating subtotal amounts or paying amount due in foreign currency (page 65).

㉚ **Subtotal key** [SUB TOTAL]

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

㉛ **Cash amount tendered key** [CA/AMT =/TEND]

Use this key to register a cash sale.

• Calculator Mode

⑥ **Percent key** [%–]

⑭ **Clear/All clear key** [C C/AC]

⑱ **Ten key pad** [0], [1], ~ [9], [00], [•]

⑧, ㉓ **Drawer open key** [#/NS], [NS]

㉔ **Memory recall key** [RC]

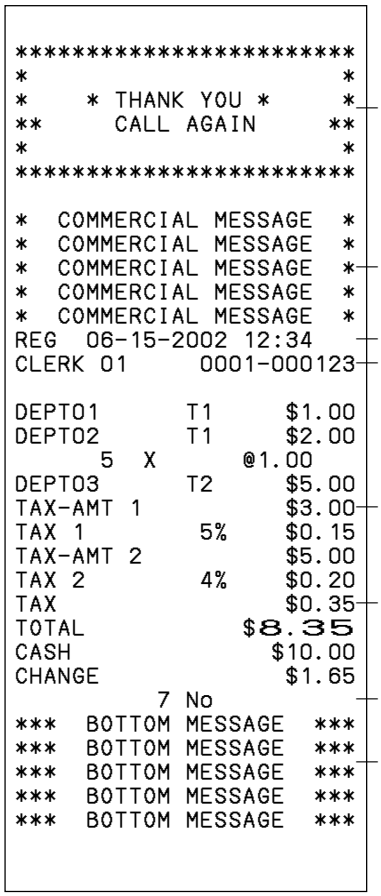
㉛ **Equal key** [CA/AMT =/TEND]

㉜ **Arithmetic operation key** [49/73 +25 +1], [50/74 –26 –2], [51/75 ×27 ×3] **and** [52/76 ÷28 ÷4] [+ 1], [– 2], [× 3] **and** [÷ 4]

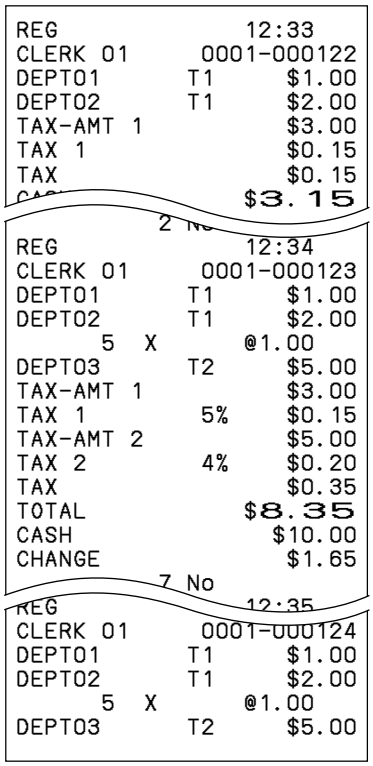
How to read the printouts

- The journal and receipts are records of all transactions and operations.
- The contents printed on receipts and journal are identical, except the date printing line. (The date line is printed on receipts and reports.)
- You can choose the journal skip function (page 46).
  If the journal skip function is selected, the cash register will print the total amount of each transaction, and the details of premium, discount and reduction operations only, without printing department and PLU item registrations on the journal.
- The following items can be skipped on receipts and journal.
  - Time
  - Consecutive number
  - Taxable status
  - Taxable amount

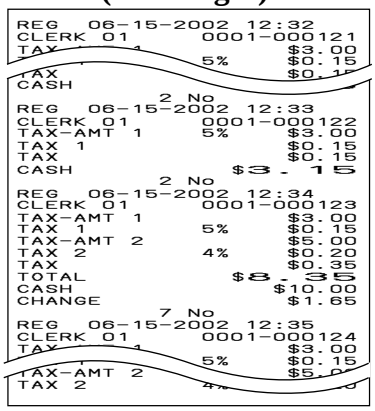
Receipt Sample



Journal Sample (Item lines Included) (normal height)



Journal Sample (Item lines Skipped) (half height)

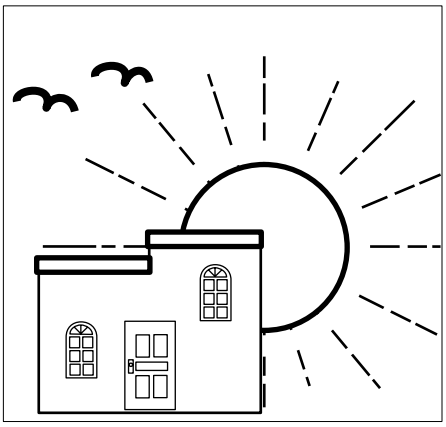


In the operation examples contained in this manual, the print samples are what would be produced if the roll paper is being used for receipts. They are not actual size. Actual receipts are 58 mm wide. Also, all sample receipts and journals are printout images.

How to use your cash register

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

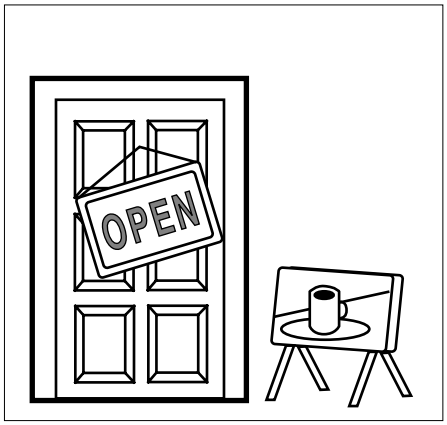
BEFORE business hours…



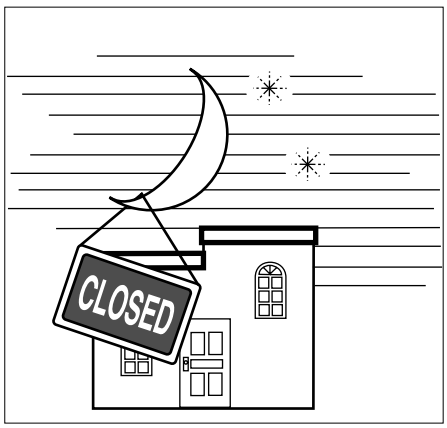
- Check to make sure that the cash register is plugged in securely. Page 11
- Check to make sure there is enough paper left on the roll. Page 9, 10
- Read the financial totals to confirm that they are all zero. Page 73
- Check the date and time. Page 24

DURING business hours…

- Register transactions. Page 25
- Periodically read totals. Page 72



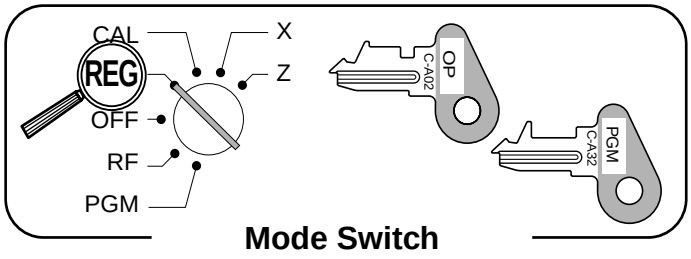
AFTER business hours…



- Reset the daily totals. Page 43
- Remove the journal. Page 84
- Empty the cash drawer and leave it open. Page 18
- Take the cash and journal to the office.

Displaying the time and date

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



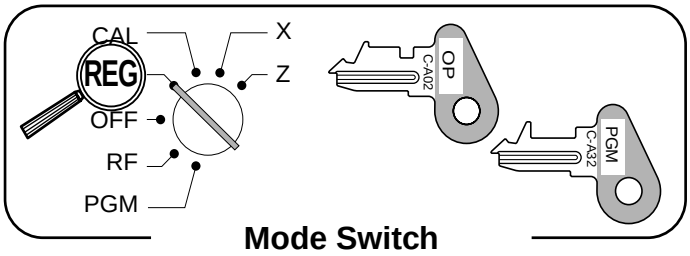
Mode Switch

To display and clear the time and date

OPERATION	DISPLAY
[×/FOR /DATE TIME]	 Month Day Year Hour Minutes. (24-hour system)
[C/AC]	

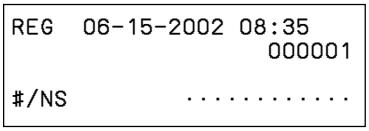
Preparing coins for change

You can use the following procedure to open the drawer without registering an item. This operation must be performed out of a sale.
(You can use the [RC] key instead of the [#/NS] key. See page 39.)



Mode Switch

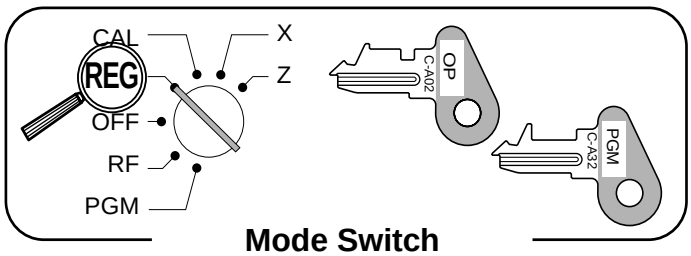
Opening the drawer without a sale

OPERATION	RECEIPT
[#/NS] ([NS]: Canada)	

Preparing and using department keys

Registering department keys

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



Mode Switch

Single item sale

Example 1

Item	Unit price	$1.00
	Quantity	1
	Dept.	1
	Taxable	(1)
Payment	Cash	$1.05

OPERATION

1 00
Unit price

+ 1
Department

CA/AMT = /TEND

RECEIPT

```
REG   06-15-2002 08:40
                 000002
DEPT01       T1     $1.00
TAX-AMT 1           $1.00
TAX 1               $0.05
CASH               $1.05
```

Mode/date/time
Consecutive No.
Department descriptor/unit price
Taxable amount 1
Tax amount 1
Cash total amount

Example 2

Item 1	Unit price	$1.00
	Quantity	1
	Dept.	25
Item 2	Unit price	$2.00
	Quantity	1
	Dept.	49
Item 3	Unit price	$3.00
	Quantity	1
	Dept.	73
Payment	Cash	$10.00

OPERATION

1 00 DEPT SHIFT 49/73 25 + 1

Designating from department
25 to 48, press DEPT SHIFT once
(- 2 - shows),
49 to 72, press DEPT SHIFT twice,
(- 3 - shows),
73 to 96, press DEPT SHIFT three times
(- 4 - shows).

2 00
DEPT SHIFT DEPT SHIFT 49/73 25 + 1

3 00
DEPT SHIFT DEPT SHIFT DEPT SHIFT 49/73 25 + 1

1 0 00 CA/AMT = /TEND

RECEIPT

```
REG   06-15-2002 08:40
                 000003

DEPT25              $1.00
DEPT49              $2.00
DEPT73              $3.00
TOTAL              $6.00
CASH               $10.00
CHANGE              $4.00
```

Example 3

Item	Unit price	$1.00
	Quantity	1
	Dept.	3
	Tax status	(1/2)→2
Payment	Cash	$1.00

OPERATION

T/S1 3 00 × 3

Shifting taxable dept. to nontaxable by depressing T/S1, T/S2 before numeric.

CA/AMT = /TEND

RECEIPT

```
REG   06-15-2002 08:40
                 000004
DEPT03       T2     $3.00
TAX-AMT 2           $3.00
TAX 2               $0.30
CASH               $3.30
```

Tax status symbol
Taxable amount 2
Tax amount 2

Repeat

Item	Unit price	$1.50
	Quantity	3
	Dept.	3
	Taxable	(1/2)
Payment	Cash	$10.00

OPERATION

1 5 0 [× 3]
[× 3]
[× 3]
[SUB TOTAL]
1 0 00 [CA/AMT =/TEND]

RECEIPT

```
REG  06-15-2002 08:45
                 000003

DEPT03      T1T2   $1.50
DEPT03      T1T2   $1.50   Repeat
DEPT03      T1T2   $1.50   Repeat
TAX-AMT 1          $4.50
TAX 1              $0.23
TAX-AMT 2          $4.50
TAX 2              $0.45
TOTAL             $5.18
CASH              $10.00
CHANGE             $4.82
```

Multiplication

Item	Unit price	$1.00
	Quantity	12.5
	Dept.	3
	Taxable	(1/2)
Payment	Cash	$20.00

OPERATION

1 2 · 5 [×/FOR/DATE/TIME]
Quantity
(4-digit integer/2-digit decimal)
1 00 [× 3]
[SUB TOTAL]
2 0 00 [CA/AMT =/TEND]

RECEIPT

```
REG  06-15-2002 08:50
                 000004

   12.5  X       @1.00   Quantity/unit price
DEPT03      T1T2  $12.50
TAX-AMT 1          $12.50
TAX 1               $0.63
TAX-AMT 2          $12.50
TAX 2               $1.25
TOTAL            $14.38
CASH              $20.00
CHANGE             $5.62
```

Split sales of packaged items

Item	Unit price	$10.00
	Quantity	3 / 4
	Dept.	3
	Taxable	(1/2)
Payment	Cash	$20.00

OPERATION

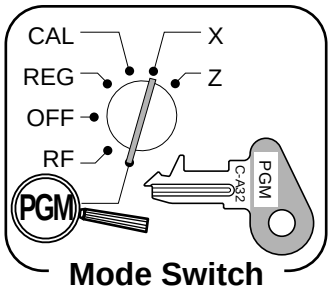
3 [×/FOR/DATE/TIME]
Quantity being purchased
(4-digit integer/2-digit decimal)
4 [×/FOR/DATE/TIME]
Quantity being purchased
(4-digit integer/2-digit decimal)
1 0 00 [× 3]
Package price
[SUB TOTAL]
1 0 00 [CA/AMT =/TEND]

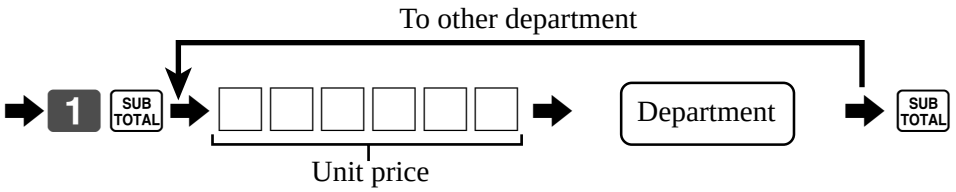
RECEIPT

```
REG  06-15-2002 08:55
                 000007

     3  X                  Quantity
        @4  /      10.00   Package quantity/
DEPT03      T1T2   $7.50   unit price
TAX-AMT 1          $7.50
TAX 1              $0.38
TAX-AMT 2          $7.50
TAX 2              $0.75
TOTAL             $8.63
CASH              $10.00
CHANGE             $1.37
```

Programming department keys

To program a unit price for each department





Example:

$1.00 ⇨ 1 0 0

$10.25 ⇨ 1 0 2 5

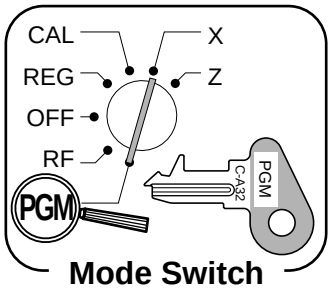
$1,234.56 ⇨ 1 2 3 4 5 6

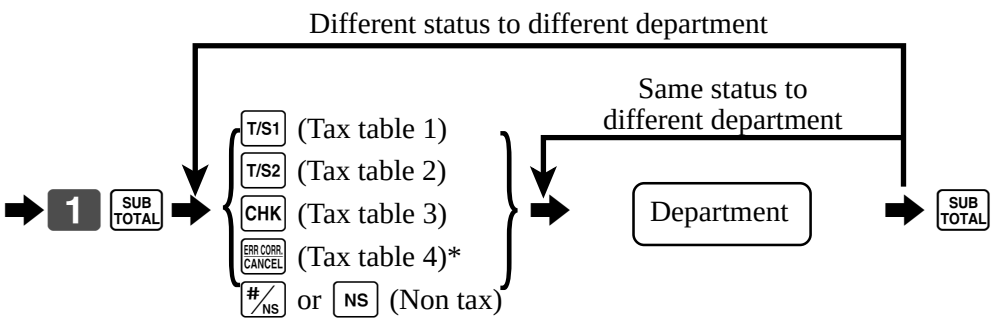
To program the tax calculation status for each department

Tax calculation status

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

Programming procedure





Note: Tax symbols

T1: Tax table 1
T2: Tax table 2
T3: Tax table 3
T4: Tax table 4 *(only for the Canadian model)

Department 1 ~ 12 are initialized as Taxable 1 and 2, others are initialized as non-tax.

Department designation

Department

for the U.S.

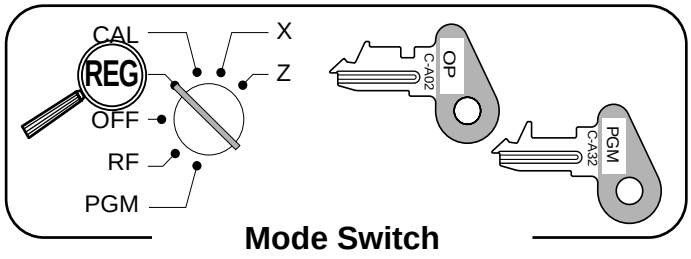
49/73 +25 +1 (Dept.1)
50/74 −26 −2 (Dept.2)
:
72/96 48 24 (Dept.24)
DEPT SHIFT 49/73 +25 +1 (Dept.25)
:
DEPT SHIFT 72/96 48 24 (Dept.48)

DEPT SHIFT DEPT SHIFT 49/73 +25 +1 (Dept.49)
DEPT SHIFT DEPT SHIFT 50/74 −26 −2 (Dept.50)
:
DEPT SHIFT DEPT SHIFT 72/96 48 24 (Dept.72)
DEPT SHIFT DEPT SHIFT DEPT SHIFT 49/73 +25 +1 (Dept.73)
:
DEPT SHIFT DEPT SHIFT DEPT SHIFT 72/96 48 24 (Dept.96)

for Canada

+ 1 (Dept.1)
− 2 (Dept.2)
:
24 (Dept.24)

Registering department keys by programming data



Mode Switch

Preset price

Item	Unit price	($1.00)
	Quantity	1
	Dept.	1
	Taxable	(No)
Payment	Cash	$1.00

( ): Preset value

OPERATION

49/73 25 + 1

CA/AMT = /TEND

RECEIPT

```
REG  06-15-2002 08:55
                000005

DEPT01              $1.00
CASH              $1.00
```

Department descriptor/unit price

Preset tax status (Add-on tax)

Item 1	Unit price	($2.00)
	Quantity	5
	Dept.	2
	Taxable	(1)
Item 2	Unit price	($2.00)
	Quantity	1
	Dept.	4
	Taxable	(2)
Payment	Cash	$20.00

( ): Preset value

OPERATION

5 X/FOR DATE TIME

50/74 26 − 2

52/76 28 ÷ 4

SUB TOTAL

2 0 00 CA/AMT = /TEND

RECEIPT

```
REG  06-15-2002 09:00
                000006

      5  X      @2.00
DEPT02      T1   $10.00
DEPT04      T2    $2.00
TAX-AMT 1         $10.00
TAX 1              $0.50
TAX-AMT 2          $2.00
TAX 2              $0.12
TOTAL            $12.62
CASH             $20.00
CHANGE            $7.38
```

Tax status symbols

Taxable Amount 1

Tax 1

Taxable Amount 2

Tax 2

Preparing and using PLUs

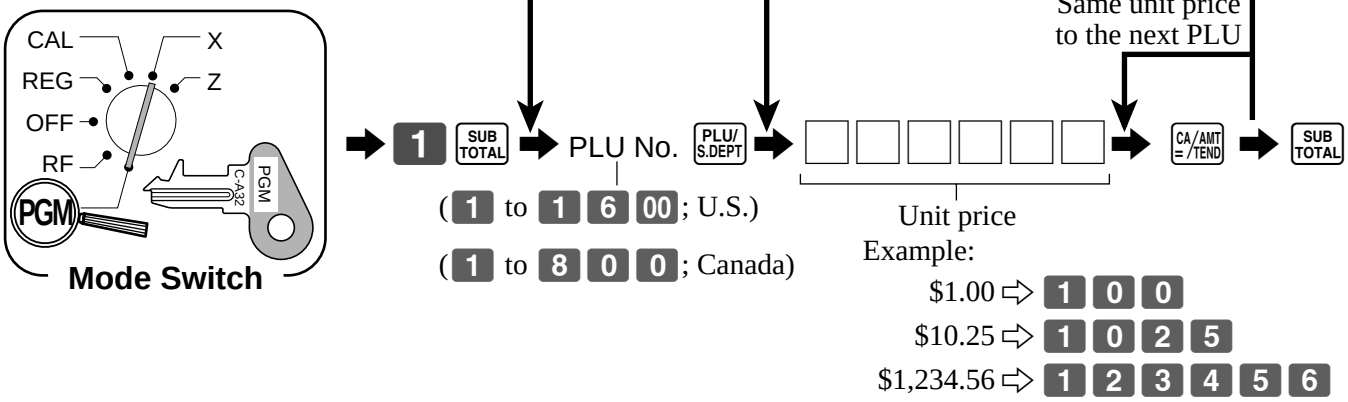
This section describes how to prepare and use PLUs.

CAUTION:

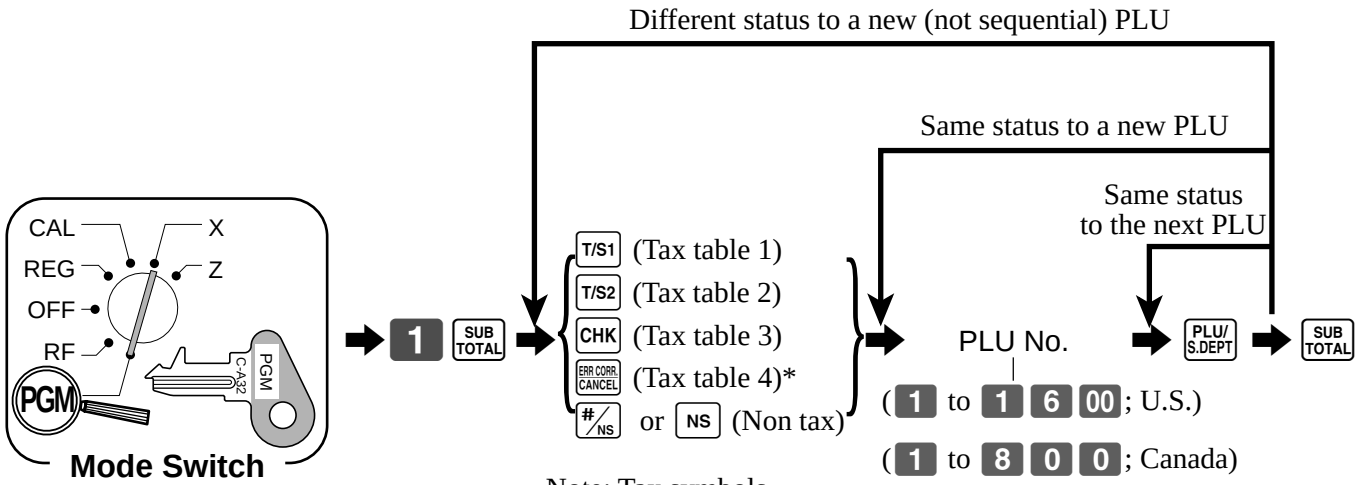
Before you use PLUs, you should first tell the cash register how it should handle the registration.

Programming PLUs

To program a unit price for each PLU



To program tax calculation status for each PLU



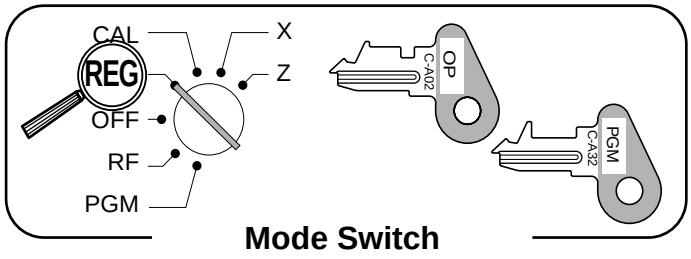
Note: Tax symbols

T1: Tax table 1
T2: Tax table 2
T3: Tax table 3
T4: Tax table 4 *(only for the Canadian model)

All PLUs are initialized as non-tax.

Registering PLUs

The following examples show how you can use PLUs in various types of registrations.
Registering by subdepartment, see the "Convenient Operations and Setups" on page 62.



Mode Switch

PLU single item sale

Item	Unit price	($2.50)
	Quantity	1
	PLU	14
	Taxable	(2)
Payment	Cash	$3.00

( ): Preset value

OPERATION

1 4 — PLU code

PLU/S.DEPT

SUB TOTAL

3 00 CA/AMT =/TEND

RECEIPT

```
REG  06-15-2002 09:10
                 000008

PLU0014      T2      $2.50
TAX-AMT 2            $2.50
TAX 2                $0.25
TOTAL               $2.75
CASH                 $3.00
CHANGE               $0.25
```

PLU descriptor/ unit price

PLU repeat

Item	Unit price	($2.50)
	Quantity	3
	PLU	14
	Taxable	(2)
Payment	Cash	$10.00

( ): Preset value

OPERATION

1 4 PLU/S.DEPT

PLU/S.DEPT

PLU/S.DEPT

SUB TOTAL

1 0 00 CA/AMT =/TEND

RECEIPT

```
REG  06-15-2002 09:15
                 000009

PLU0014      T2      $2.50
PLU0014      T2      $2.50
PLU0014      T2      $2.50
TAX-AMT 2            $7.50
TAX 2                $0.75
TOTAL               $8.25
CASH                $10.00
CHANGE               $1.75
```

PLU multiplication

Item	Unit price	($1.20)
	Quantity	15
	PLU	2
	Taxable	(2)
Payment	Cash	$20.00

( ): Preset value

OPERATION

1 5 ×/FOR /DATE TIME — Quantity (4-digit integer/2-digit decimal)

2 PLU/S.DEPT

SUB TOTAL

2 0 00 CA/AMT =/TEND

RECEIPT

```
REG  06-15-2002 09:20
                 000010

     15  X       @1.20
PLU0002      T2     $18.00
TAX-AMT 2           $18.00
TAX 2                $1.80
TOTAL              $19.80
CASH                $20.00
CHANGE               $0.20
```

PLU split sales of packaged item

OPERATION **RECEIPT**

Item	Unit price	($20.00)
	Quantity	3 / 5
	PLU	28
	Taxable	(2)
Payment	Cash	$15.00

( ): Preset value

3 [×/FOR/DATE/TIME]
Quantity
(4-digit integer/2-digit decimal)
5 [×/FOR/DATE/TIME]
2 8 [PLU/S.DEPT]
[SUB TOTAL]
1 5 00 [CA/AMT/=/TEND]

```
REG  06-15-2002 09:35
                000013

      3  X
         @5  /      20.00
PLU0028     T2     $12.00
TAX-AMT 2          $12.00
TAX 2               $1.20
TOTAL             $13.20
CASH               $15.00
CHANGE              $1.80
```

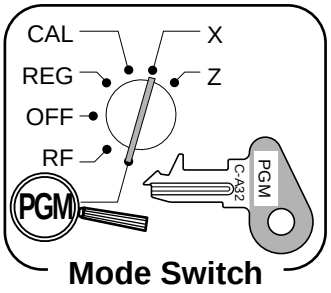
Preparing and using discounts/premiums

This section describes how to prepare and register discount and premium.

Programming discounts/premiums

You can use the [%−] key to register discounts (percentage decreases) and the [%+] key to register premiums (percentage increases).

To program a rate to the [%−]/[%+] key



Mode Switch

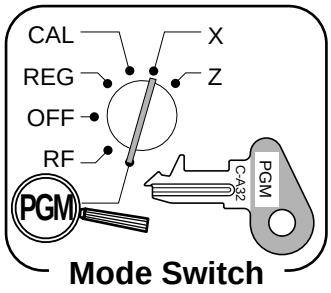
→ 1 [SUB TOTAL] → □□□□ → { [%−] / [%+] } → [SUB TOTAL]

Preset rate

Example:

10% ⇨ 1 0
5.5% ⇨ 5 · 5
12.34% ⇨ 1 2 · 3 4

To program tax status to the [%−]/[%+] key



Mode Switch

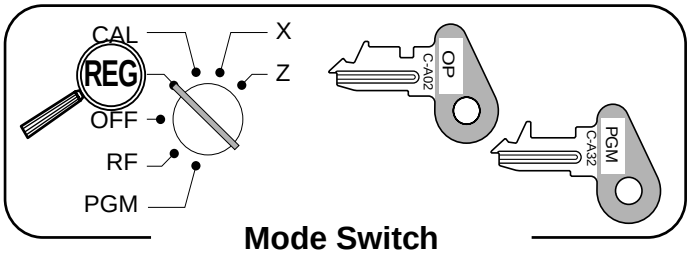
→ 1 [SUB TOTAL] → { [T/S1] (Tax table 1) [T/S2] (Tax table 2) / [CHK] (Tax table 3) [ERR CORR/CANCEL] (Tax table 4)† / [T/S1] [T/S2] (Tax table 1, 2, 3 and 4†) / [CHK] [ERR CORR/CANCEL] / [#/NS] or [NS] (Non tax) } → { [%−] / [%+] } → [SUB TOTAL]

Note: Tax symbols [%−]/[%+] are initialized as all taxable.

T1: Tax table 1
T2: Tax table 2
T3: Tax table 3
T4: Tax table 4 †(only for the Canadian model)
∗: All taxable

Registering discounts/premiums

The following example shows how you can use the [%−]/[%+] key in various types of registration.



Mode Switch

Discount for items and subtotals

Item 1	Unit price	$5.00
	Quantity	1
	Dept.	2
	Taxable	(1)
Item 2	Unit price	($10.00)
	Quantity	1
	PLU	16
	Taxable	(2)
Discount	Rate	(5%)
Subtotal Discount	Rate	3.5%
	Taxable	(All)
Payment	Cash	$16.00

( ): Preset value

OPERATION

5 00 [− 2]
1 6 [PLU/S.DEPT]
[%−]

Applies the preset discount rate to the last item registered.

[MD/ST]
3 · 5 [%−]

The input value takes priority of the preset value.

[SUB TOTAL]
1 6 00 [CA/AMT = /TEND]

RECEIPT

```
REG  06-15-2002 10:30
                  000013

DEPT02        T1     $5.00
PLU0016       T2    $10.00
    5%
%-            T2     -0.50
ST                  $14.50
  3.5%
%-            *      -0.51
TAX-AMT 1           $4.82
TAX 1               $0.24
TAX-AMT 2           $9.17
TAX 2               $0.92
TOTAL          $15.15
CASH               $16.00
CHANGE              $0.85
```

Premium for items and subtotals

Item 1	Unit price	($10.00)
	Quantity	1
	Dept.	4
	Taxable	(2)
Premium	Rate	7%
Item 2	Unit price	($5.00)
	Quantity	1
	PLU	32
	Taxable	(2)
Subtotal Premium	Rate	(5%)
	Taxable	(1/2)
Payment	Cash	$20.00

( ): Preset value

OPERATION

[÷ 4]
7 [%+]

Applies the input value as a premium rate (7%).

3 2 [PLU/S.DEPT]
[MD/ST]
[%+]

Applies the preset premium rate (5%) to the subtotal.

[SUB TOTAL]
2 0 00 [CA/AMT = /TEND]

RECEIPT

```
REG  06-15-2002 13:15
                  000037

DEPT04        T2    $10.00
    7%
%+            T2     $0.70
PLU0032       T2     $5.00
ST                  $15.70
    5%
%+            T1T2   $0.79
TAX-AMT 2           $16.49
TAX 2               $1.65
TOTAL          $18.14
CASH               $20.00
CHANGE              $1.86
```

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

Taxable status of the [%−]/[%+] key

- Whenever you perform a discount operation on the last item registered, the tax calculation for discount amount is performed in accordance with the tax status programmed for that item.
- Whenever you perform a discount operation on a subtotal amount, the tax calculation for the subtotal amount is performed in accordance with the tax status programmed for the [%−]/[%+] key.

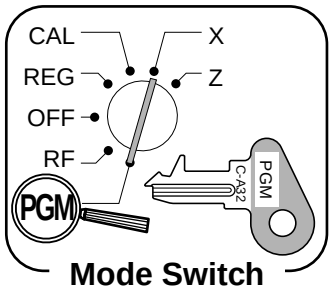
Preparing and using reductions

This section describes how to prepare and register reductions.

Programming for reductions

You can use the [−] key to reduce single item or subtotal amounts. The following procedure lets you program the tax calculation method for the [−] key.

To program tax calculation status



→ 1 SUB TOTAL →

- T/S1 (Tax table 1) T/S2 (Tax table 2)
- CHK (Tax table 3) ERR CORR. CANCEL (Tax table 4)†
- T/S1 T/S2 CHK ERR CORR. CANCEL (Tax table 1, 2, 3 and 4†)
- #/NS (Non tax)

→ [−] → SUB TOTAL

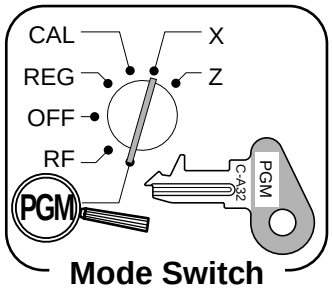
Note: Tax symbols
- T1: Tax table 1
- T2: Tax table 2
- T3: Tax table 3
- T4: Tax table 4 †(only for the Canadian model)
- ∗: All taxable

[−] is initialized as non-tax.

Taxable status of the [−] key

The tax calculation for the reduction amount is performed in accordance with the tax status programmed for the [−] key, regardless of whether the reduction is performed on the last item registered or a subtotal amount.

To program preset reduction amount



→ 1 SUB TOTAL → □□□□□□ → [−] → SUB TOTAL

Unit price

Example:

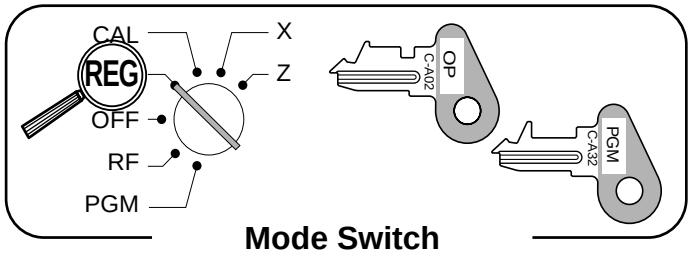
$1.00 ⇨ 1 0 0

$10.25 ⇨ 1 0 2 5

$1,234.56 ⇨ 1 2 3 4 5 6

Registering reductions

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



Mode Switch

Reduction for items

OPERATION **RECEIPT**

Item 1	Unit price	$5.00
	Quantity	1
	Dept.	2
	Taxable	(1)
Reduction	Amount	$0.25
Item 2	Unit price	($6.00)
	Quantity	1
	PLU	45
	Taxable	(1)
Reduction	Amount	($0.50)
Payment	Cash	$15.00

( ): Preset value

5 00 [−2]
2 5 [−]

Reduces the last amount registered by the value input.

4 5 [PLU/S.DEPT]
[−]
[SUB TOTAL]
1 5 00 [CA/AMT=/TEND]

```
REG  06-15-2002 10:35
                000014

DEPT02       T1      $5.00
-                    -0.25
PLU0045      T1      $6.00
-                    -0.50
TAX-AMT 1            $11.00
TAX 1                $0.55
TOTAL              $10.80
CASH                 $15.00
CHANGE               $4.20
```

- You can manually input reduction values up to 7 digits long.
- The amount you input for the reduction is neither subtracted from the department nor PLU totalizer.

Reduction for subtotal

OPERATION **RECEIPT**

Item 1	Unit price	$3.00
	Quantity	1
	Dept.	2
	Taxable	(1)
Item 2	Unit price	$4.00
	Quantity	1
	Dept.	4
	Taxable	(2)
Subtotal Reduction	Amount	$0.75
	Taxable	(No)
Payment	Cash	$7.00

( ): Preset value

3 00 [−2]
4 00 [÷4]
[SUB TOTAL]
7 5 [−]

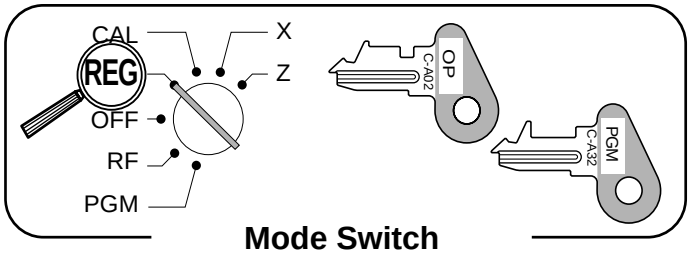
Reduces the subtotal by the value input here.

[SUB TOTAL]
7 00 [CA/AMT=/TEND]

```
REG  06-15-2002 10:40
                000015

DEPT02       T1      $3.00
DEPT04       T2      $4.00
-                    -0.75
TAX-AMT 1            $3.00
TAX 1                $0.15
TAX-AMT 2            $3.00
TAX 2                $0.30
TOTAL              $6.80
CASH                 $7.00
CHANGE               $0.20
```

Calculating the merchandise subtotal

Use the operation shown below to calculate the merchandise subtotal, which includes the actual cost of the merchandise only without the add-on tax.



Mode Switch

Calculation merchandise subtotal

Item 1	Unit price	$1.00
	Quantity	1
	Dept.	1
	Taxable	(No)
Item 2	Unit price	$2.00
	Quantity	1
	Dept.	2
	Taxable	(1)
Item 3	Unit price	$3.00
	Quantity	1
	Dept.	3
	Taxable	(1/2)
Payment	Cash	$10.00

( ): Preset value

OPERATION	DISPLAY
1 00 [49/73 25 + 1]	1.00
2 00 [50/74 26 − 2]	2.00
3 00 [51/75 27 × 3]	3.00
[MD/ST]	6.00

Calculates the merchandise subtotal.

[SUB TOTAL]	6.55

Calculates the subtotal (with add-on tax).

1 0 00 [CA/AMT =/TEND]	3.45

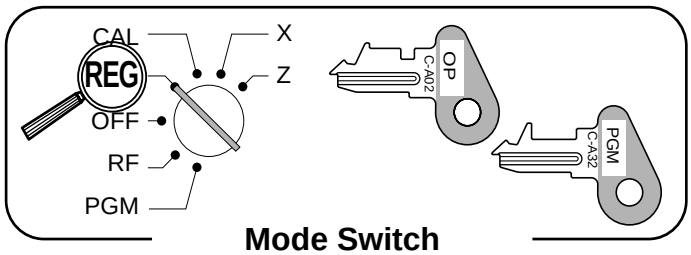
RECEIPT

```
REG   06-15-2002  10:45
                  000016

DEPT01              $1.00
DEPT02      T1      $2.00
DEPT03      T1T2    $3.00
TAX-AMT 1           $5.00
TAX 1               $0.25
TAX-AMT 2           $3.00
TAX 2               $0.30
TOTAL              $6.55
CASH               $10.00
CHANGE              $3.45
```

- For a partial tender operation, you should press the [SUB TOTAL] key instead of the [MD/ST] key.

Registering charge and check payments

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



Mode Switch

Check

Item	Unit price	$10.00
	Quantity	1
	Dept.	2
	Taxable	(1)
Payment	Check	$20.00

( ): Preset value

OPERATION

1 0 00 [– 2]
[SUB TOTAL]
2 0 00 [CHK]

RECEIPT

```
REG   06-15-2002 10:50
                 000018

DEPT02       T1     $10.00
TAX-AMT 1           $10.00
TAX 1                $0.50
TOTAL              $10.50
CHECK               $20.00
CHANGE               $9.50
```

Charge

Item	Unit price	$15.00
	Quantity	1
	Dept.	4
	Taxable	(2)
Reference	Number	0123
Payment	Charge	$16.50

( ): Preset value

OPERATION

1 5 00 [÷ 4]
[SUB TOTAL]
* 0 1 2 3 [#/NS]
[CH]

* In Canada, you can use [#] instead of [#/NS].

RECEIPT

```
REG   06-15-2002 10:55
                 000019

DEPT04       T2     $15.00
#/NS                 0123  <- Reference No.
TAX-AMT 2           $15.00
TAX 2                $1.50
CHARGE             $16.50
```

Mixed tender (cash, charge and check)

Item	Unit price	$55.00
	Quantity	1
	Dept.	4
	Taxable	(2)
Payment	Check	$30.00
	Cash	$5.00
	Charge	$25.50

( ): Preset value

OPERATION

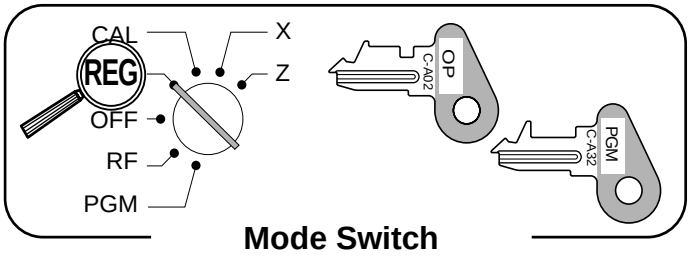
5 5 00 [÷ 4]
[SUB TOTAL]
3 0 00 [CHK]
5 00 [CA/AMT =/TEND]
[CH]

RECEIPT

```
REG   06-15-2002 11:00
                 000020

DEPT04       T2     $55.00
TAX-AMT 2           $55.00
TAX 2                $5.50
TOTAL              $60.50
CHECK               $30.00
CASH                 $5.00
CHARGE              $25.50
```

Registering returned goods in the REG mode

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



Mode Switch

Item 1	Unit price	$2.35
	Quantity	1
	Dept.	2
	Taxable	(1)
Item 2	Unit price	$2.00
	Quantity	1
	Dept.	4
	Taxable	(2)
Item 3	Unit price	($1.20)
	Quantity	1
	PLU	1
	Taxable	(2)
Item 1 Returned	Unit price	$2.35
	Quantity	1
	Dept.	2
	Taxable	(1)
Item 3 Returned	Unit price	($1.20)
	Quantity	1
	PLU	1
	Taxable	(2)
Payment	Cash	$2.20

( ): Preset value

OPERATION **RECEIPT**

2 3 5 −2

2 00 ÷4

1 PLU/S.DEPT

RF

2 3 5 −2

Pressing RF specifies that the next item registered is a return.

RF

1 PLU/S.DEPT

You have to press RF before registering each returned item.

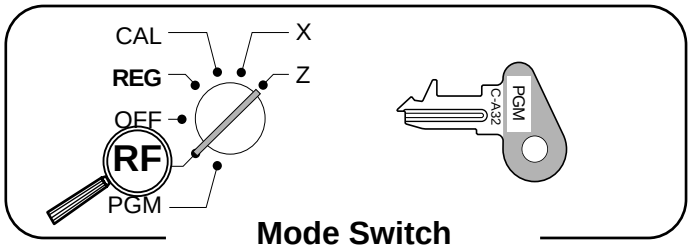
SUB TOTAL

CA/AMT =/TEND

```
REG  06-15-2002 11:05
                 000021

DEPT02       T1      $2.35
DEPT04       T2      $2.00
PLU0001      T2      $1.20
REFUND       ............
DEPT02       T1      -2.35
REFUND       ............
PLU0001      T2      -1.20
TAX-AMT 2            $2.00
TAX 2                $0.20
CASH               $2.20
```

Registering returned goods in the RF mode

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



Normal refund transaction

Item 1 Returned	Unit price	$1.50
	Quantity	2
	Dept.	2
	Taxable	(1)
Item 2 Returned	Unit price	($1.20)
	Quantity	6
	PLU	2
	Taxable	(2)
Payment	Cash	$11.07

( ): Preset value

OPERATION

1 5 0 −2
−2
6 ×/FOR/DATE TIME
2 PLU/S.DEPT
SUB TOTAL
CA/AMT =/TEND

RECEIPT

RF mode symbol

```
RF      06-15-2002 11:10
                   000022

DEPT02       T1      $1.50
DEPT02       T1      $1.50
     6   X          @1.20
PLU0002      T2      $7.20
TAX-AMT 1            $3.00
TAX 1                $0.15
TAX-AMT 2            $7.20
TAX 2                $0.72
CASH              $11.07
```

Reduction of amounts paid on refund

Item 1 Returned	Unit price	$1.50
	Quantity	2
	Dept.	2
	Taxable	(1)
Reduction	Amount	$0.15
Item 2 Returned	Unit price	($1.20)
	Quantity	1
	PLU	2
	Taxable	(2)
Discount	Rate	(5%)
Payment	Cash	$5.30

( ): Preset value

OPERATION

4 00 −2
1 5 −
2 PLU/S.DEPT
%−
SUB TOTAL
CA/AMT =/TEND

RECEIPT

RF mode symbol

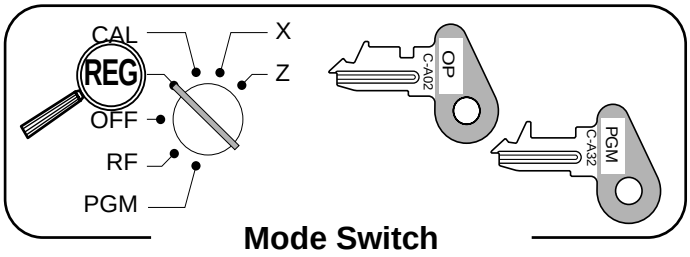
```
RF      06-15-2002 11:15
                   000023

DEPT02       T1      $4.00
-                    -0.15
PLU0002      T2      $1.20
    5%
%-           T2      -0.06
TAX-AMT 1            $4.00
TAX 1                $0.20
TAX-AMT 2            $1.14
TAX 2                $0.11
CASH              $5.30
```

Important!

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

Registering money received on account

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



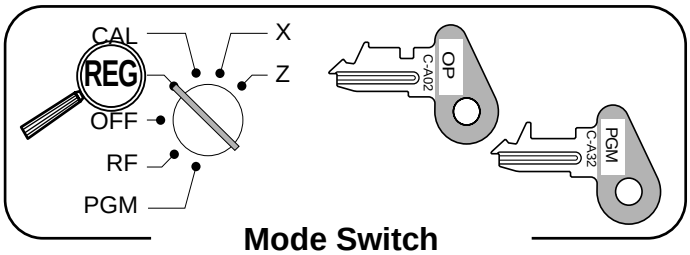
Mode Switch

	OPERATION	RECEIPT
Received amount $700.00	7 00 00 RC	REG 06-15-2002 11:20 000024 RC $700.00

Amount can be up to 8 digits.

Registering money paid out

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



Mode Switch

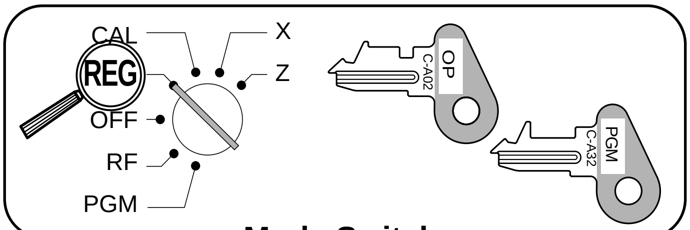
	OPERATION	RECEIPT
Paid out amount $1.50	1 5 0 PD	REG 06-15-2002 11:30 000025 PD $1.50

Amount can be up to 8 digits.

Making corrections in a registration

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

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



Mode Switch

To correct an item you input but not yet registered

OPERATION / **RECEIPT**

2 00
C (C/AC) — Correction of unit price
1 00 −2
1 2 X/FOR (DATE TIME)

C (C/AC) — Correction of quantity
1 1 X/FOR (DATE TIME)
2 00 ÷4
2

C (C/AC) — Correction of PLU No.
3 PLU/S.DEPT
1 5 PLU/S.DEPT

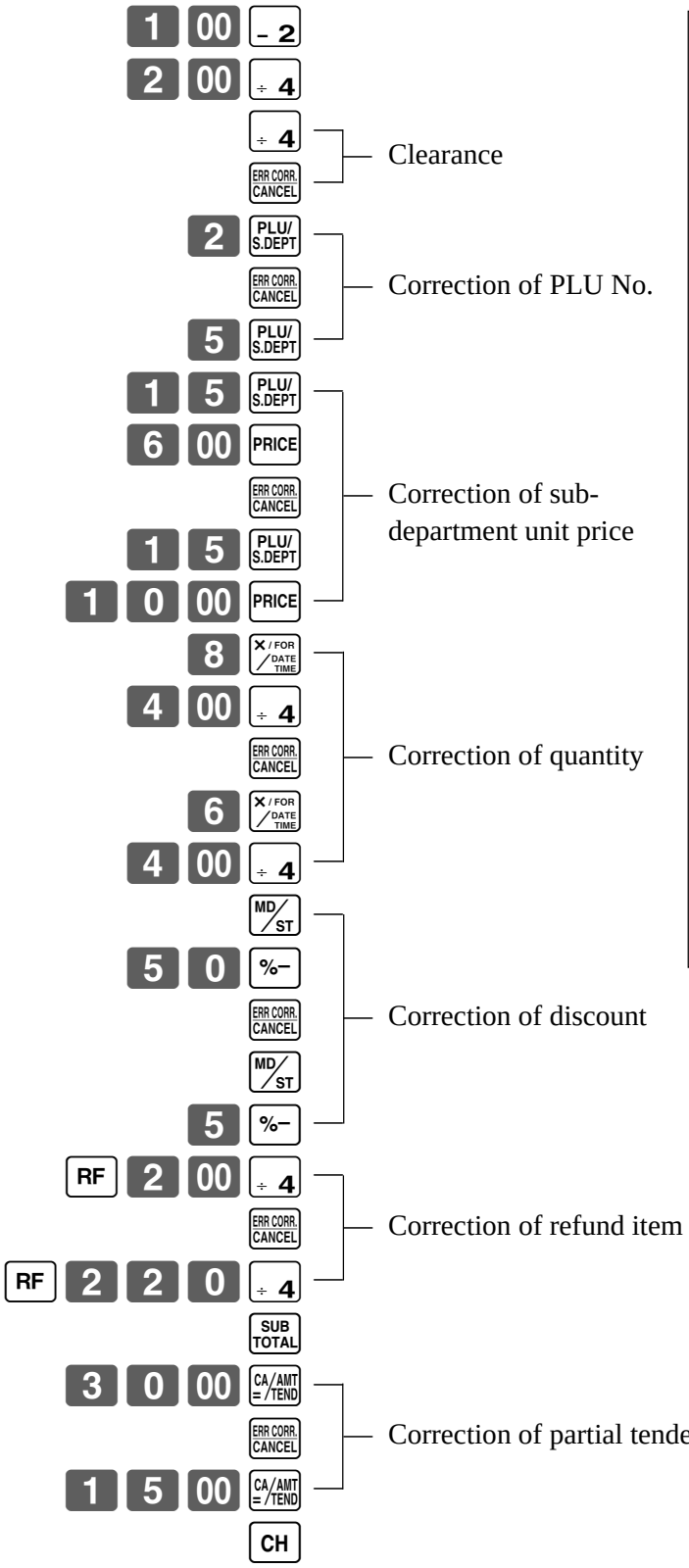
6 00 — Correction of subdepartment unit price (See page 62 for registering.)
C (C/AC)
1 5 PLU/S.DEPT
Enter subdepartment No. again.
1 0 00 PRICE
SUB TOTAL

1 0 00
C (C/AC) — Correction of partial tender amount
1 5 00 CA/AMT =/TEND
CH

```
REG   06-15-2002 11:35
                 000026

DEPT02       T1     $1.00
     11   X      @2.00
DEPT04       T2    $22.00
PLU0003      T1     $1.30
PLU0015      T1    $10.00
TAX-AMT 1          $12.30
TAX 1               $0.62
TAX-AMT 2          $22.00
TAX 2               $2.20
TOTAL              $37.12
CASH               $15.00
CHARGE             $22.12
```

To correct the last item you input and registered

OPERATION **RECEIPT**




```
REG  06-15-2002 11:40
                 000027

DEPT02       T1      $1.00
DEPT04       T2      $2.00
DEPT04       T2      $2.00
ERR CORR             -2.00
PLU0002      T2      $1.20
ERR CORR             -1.20
PLU0005      T1      $1.50
PLU0015      T1      $6.00
ERR CORR             -6.00
PLU0015      T1     $10.00
      8  X       @4.00
DEPT04       T2     $32.00
ERR CORR            -32.00
      6  X       @4.00
DEPT04       T2     $24.00
ST                  $38.50
   50%
%-                  -19.25
ERR CORR     *      $19.25
ST                  $38.50
    5%
%-           *       -1.93
REFUND       ............
DEPT04       T2      -2.00
ERR CORR             $2.00
REFUND       ............
DEPT04       T2      -2.20
TAX-AMT 1           $11.87
TAX 1                $0.59
TAX-AMT 2           $22.50
TAX 2                $2.25
TOTAL              $37.21
CASH                $30.00
ERR CORR            -30.00
CASH                $15.00
CHARGE              $22.21
```

To cancel all items in a transaction

OPERATION	RECEIPT
1 00 [+ 1] 2 00 [- 2] 3 00 [× 3] 4 00 [÷ 4] [MD/ST]	REG 06-15-2002 11:45 000028 DEPT01 $1.00 DEPT02 T1 $2.00 DEPT03 T1T2 $3.00 DEPT04 T2 $4.00 CANCEL TTL ·····

Pressing [MD/ST] key is necessary to cancel the transaction.

[ERR CORR. CANCEL]

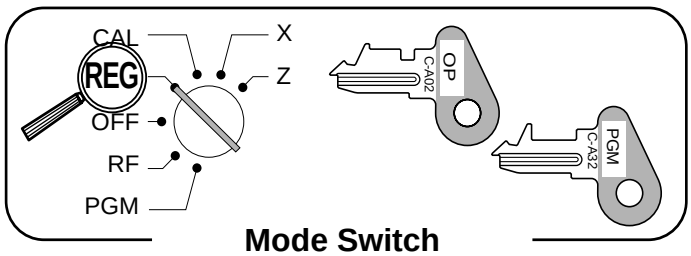
Important!

- Note that the number of items included in the transaction to be cancelled is limited (24 ~ 40 items), depending on the complexity of the transaction. If you try to cancel a transaction that exceeds the limit, an error occurs.

  In case of occurrence of this error, register these items in the RF mode.
- You can program the cash register that this cancel operation is not allowed.

No sale registration

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



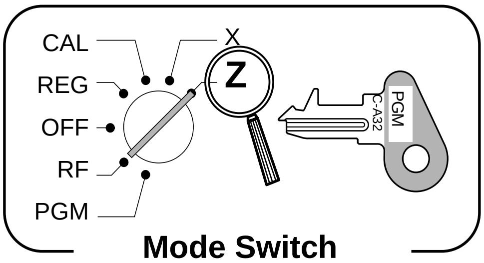
Mode Switch

OPERATION	RECEIPT
[#/NS] ([NS]: Canada)	REG 06-15-2002 11:50 000029 #/NS ·····

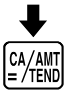
Printing the daily sales reset report

This report shows daily sales totals.

OPERATION



Mode Switch



REPORT

Report line		Value	Description
Z	06-15-2002	12:00	Reset mode/date/time
		000030	Consecutive No.
0000 DAILY		Z 0001	Report code/report title/reset symbol/ reset counter
DEPT01	QT	15	Department descriptor/No. of items[*1]
		$339.50	Department amount[*1]
DEPT02	QT	19	
		$62.70	
DEPT03	QT	31	
		$139.10	
	QT	23	
NON-LINK DPT	QT	10	Non-link department No. of items
		$94.90	Non-link department amount
GROSS TOTAL	QT	253	Gross No. of items
		$1146.90	Gross sales amount
NET TOTAL	No	100	No. of customers
		$1217.63	Net sales amount
CASH-INDW		$903.06	Cash in drawer amount
CHARGE-INDW		$197.17	Charge in drawer amount
CHECK-INDW		$183.60	Check in drawer amount
TAX-AMT 1		$732.56	Taxable amount 1 [*2]
TAX 1		$43.96	Tax amount 1 [*2]
TAX-AMT 2		$409.72	Taxable amount 2 [*2]
TAX 2		$21.55	Tax amount 2 [*2]
TAX-AMT 3		$272.50	Taxable amount 3 [*2]
TAX 3		$8.18	Tax amount 3 [*2]
CANCEL TTL	No	2	Cancellation count
		$108.52	Cancellation amount
RF-MODE TTL	No	2	Refund mode operation count [*3]
		$3.74	Refund mode operation amount [*3]
CASH	No	81	Cash sales count
		$836.86	Cash sales amount
CHARGE	No	10	Charge sales count
		$197.17	Charge sales amount
CHECK	No	9	Check sales count
		$183.60	Check sales amount
RC	No	2	Received on Account count
		$78.00	Received on Account amount
PD	No	1	Paid out count
		$6.80	Paid out amount
-	No	8	Subtraction count
		$3.00	Subtraction amount
%-	No	10	Discount count
		$4.62	Discount amount
%+	No	1	Premium count
		$1.00	Premium amount
REFUND	No	7	Refund key count [*3]
		$27.79	Refund key amount [*3]
ERR CORR	No	10	Error correction count
		$12.76	Error correction amount
#/NS	No	5	No sale count
GRND TTL		$0000001217.63	Non-resettable grand-sales total [*3]

[*1] Zero totalled departments (the amount and item numbers are both zero) are not printed.
[*2] Taxable amount and tax amount are printed only if the corresponding tax table is programmed.
[*3] These items can be skipped by programming.

Basic Operations and Setups

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

Clerk control function

Clerk name printing on receipt/journal, and sales amounts summing by clerk.
To use clerk function, refer to page 47.

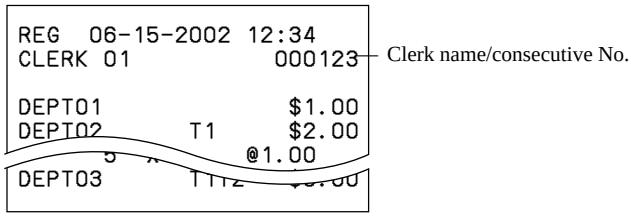
REG/RF/ CAL/X/Z
Mode Switch

Clerk sign on and sign off

Any time you begin any registration, clerk sign on operation is necessary.

Clerk sign on

	OPERATION	RECEIPT
Signing clerk 1 on:	1 ➡ CLK-#	
Signing clerk 2 on:	2 ➡ CLK-#	
. . .		
Signing clerk 10 on:	1 0 ➡ CLK-#	
. . .		



Clerk sign off

	OPERATION
Signing clerk off:	0 ➡ CLK-#

- The current clerk is also signed off whenever you set the mode switch to OFF position.

Important!

- The error code “E08” appears on the display whenever you try to perform a registration, a read/reset operation without signing on.
- The signed on clerk is also identified on the receipt/journal.

Post-finalization receipt format, General printing control, Compulsory, Machine features

About post-finalization receipt

The post-finalization receipt lets you issue a receipt after finalization of the transaction.
Note that all of the following conditions must be satisfied.

- The receipt issuance status must be OFF.
- The transaction must be finalized in the REG or RF mode using the [CA/AMT =/TEND], [CH] or [CHK] key.

Post-finalization receipt example

You can program the cash register to print the transaction total only (below Total format) or full details (below Detailed format) on the post-finalization receipt.
Note that if the transaction contains more than 45 lines (including receipt header), the cash register prints in a Total format regardless of your programming.

REG

Mode Switch

Item 1	Unit price	$10.00
	Quantity	1
	Dept.	2
	Taxable	(1)
Item 2	Unit price	$20.00
	Quantity	1
	Dept.	4
	Taxable	(2)
Payment	Cash	$32.50

( ): Preset value

OPERATION	RECEIPT
1 0 00 [- 2]	
2 0 00 [÷ 4]	
[SUB TOTAL]	
3 2 5 0 [CA/AMT =/TEND]	Receipt is not issued.
[POST RECEIPT]	Post-finalization receipt is issued.

If "Automatic issue" is selected, no need to press [POST RECEIPT] key.

Total format

```
REG  06-15-2002 12:35
CLERK 01          000123

CASH              $32.50
```

Detailed format

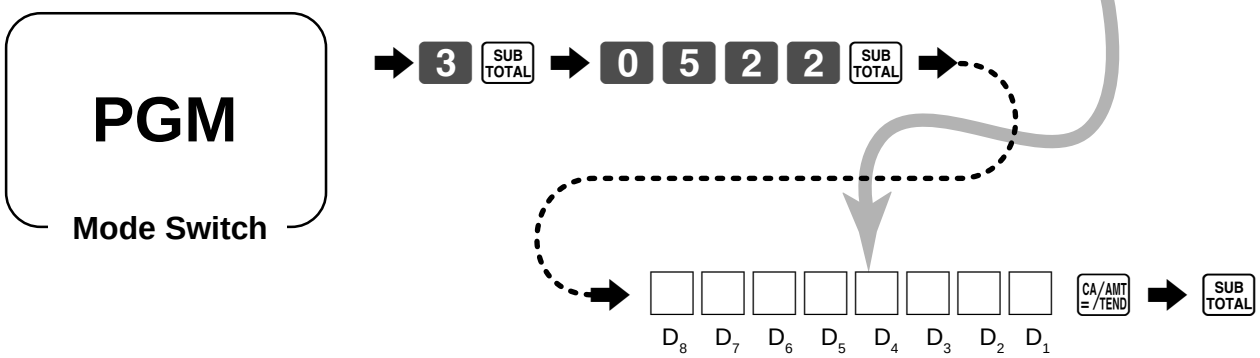
```
REG  06-15-2002 12:35
CLERK 01          000123

DEPT02      T1     $10.00
DEPT04      T2     $20.00
TAX-AMT 1          $10.00
TAX 1               $0.50
TAX-AMT 2          $20.00
TAX 2               $2.00
TOTAL             $32.50
CASH               $32.50
CHANGE              $0.00
```

Important!

- You can issue only one post-finalization receipt per transaction.

Programming general printing control

Suppress printing of the subtotal line during tender operation.		No = 0 Yes = 1	□ D_8
Print the current time.	a	Yes = 0 No = 1	a+b+c = □ D_7
Skip the date on journal.	b	Yes = 0 No = 2	
Skip the consecutive number.	c	No = 0 Yes = 4	
Issue post receipt by Finalize key (automatic issue)/ Post receipt key (manual issue)	a	Manual = 0 Automatic = 2	a+b = □ D_6
Detail format/Total format in the post receipt	b	Detail = 0 Total = 4	
Print taxable amount.	a	Yes = 0 No = 1	a+b+c = □ D_5
Print tax symbols.	b	Yes = 0 No = 2	
Print number of item sold.	c	No = 0 Yes = 4	
Skip item lines on journal. (journal skip)	a	No = 0 Yes = 1	a+b+c = □ D_4
Print subtotal when the key is pressed.	b	No = 0 Yes = 2	
Time system: ① 24 hour system, ② 12 hour system	c	① = 0 ② = 4	
Digit separator symbol.	a	Comma = 0 Period = 1	a+b+c = □ D_3
Decimal symbol.	b	Period = 0 Comma = 2	
Journal compressed print (print by half height characters)	c	Yes = 0 No = 4	
Print hyphens before finalizing a transaction.	a	No = 0 Yes = 1	a+b = □ D_2
Print tax total on receipt and report.	b	No = 0 Yes = 2	
Print receipt by double height characters.		No = 0 Yes = 2	□ D_1



Programming compulsory and clerk control function

Force [SUB TOTAL] operation before finalization.	a	No = 0 Yes = 2	a+b = ☐ D_8
Force a money declaration before allowing a daily read/reset and financial read operation.	b	No = 0 Yes = 4	
Always “000”			[0] ~ [0] D_7~D_5
Clear the key buffer when a receipt is issued.	a	No = 0 Yes = 1	a+b = ☐ D_4
Perform auto sign-off when a receipt/report is issued.	b	No = 0 Yes = 2	
Display “seconds” during time display.		No = 0 Yes = 2	☐ D_3
Reset the consecutive number when the daily reset report is issued.	a	Yes = 0 No = 1	a+b = ☐ D_2
Prohibit cancel operation.	b	No = 0 Yes = 2	
Assign [00] as “00” or “000”.	a	“00” = 0 “000” = 1	a+b = ☐ D_1
Use “clerk” function: (If you select “Yes”, sign on operation is necessary before registration.	b	No = 0 Yes = 4	

PGM

Mode Switch

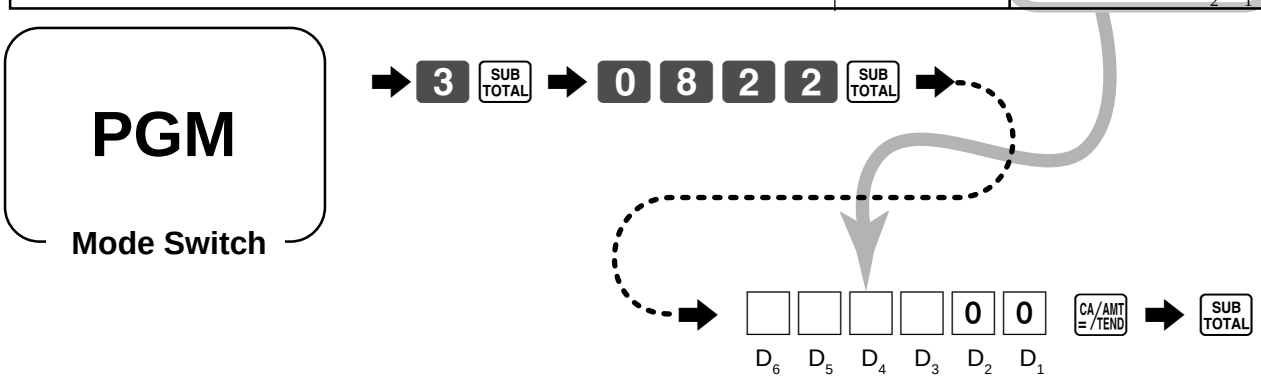
→ [3] [SUB TOTAL] → [0] [6] [2] [2] [SUB TOTAL] →

→ ☐ [0] [0] [0] ☐ ☐ ☐ ☐ [CA/AMT =/TEND] → [SUB TOTAL]

D_8 D_7 D_6 D_5 D_4 D_3 D_2 D_1

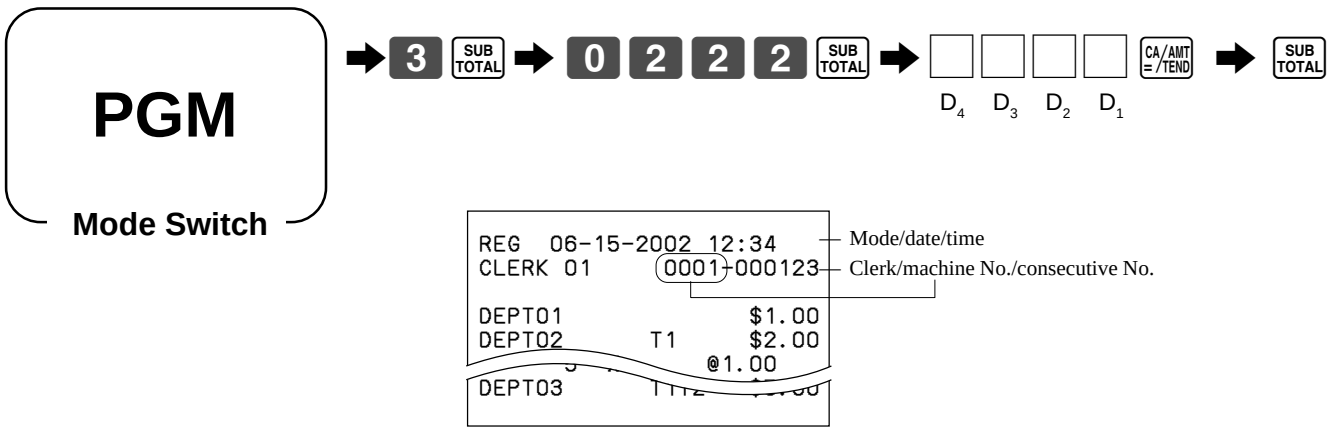
Programming read/reset report printing control

Print the first and the last consecutive number of the day (consecutive No. range) on the daily sales reset report.		No = 0 Yes = 4	□ D_6
Skip zero total lines on department and transaction read/reset report.	a	Yes = 0 No = 1	a+b+c = □ D_5
Skip zero total lines on PLU read/reset report.	b	Yes = 0 No = 2	
Skip zero total lines on hourly sales report.	c	Yes = 0 No = 4	
Print the sales ratio on read/reset report.	a	No = 0 Yes = 1	a+b = □ D_4
Suppress printing of the non-resettable grand total on the daily reset report.	b	No = 0 Yes = 2	
Suppress printing of RF total and count (both RF mode and RF key) on the read/reset report.	a	No = 0 Yes = 1	a+b = □ D_3
Print tax rate with tax totalizer.	b	No = 0 Yes = 2	
Always "00"			0 0 D_2 D_1



Setting a store/machine number

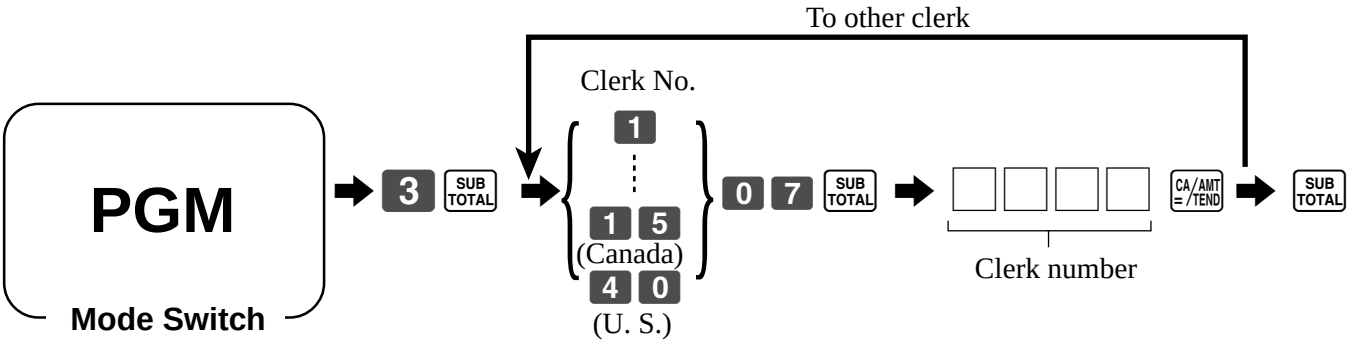
You can set a 4-digit machine number to identify your machine. The machine number is printed on receipts/journal for each transaction.



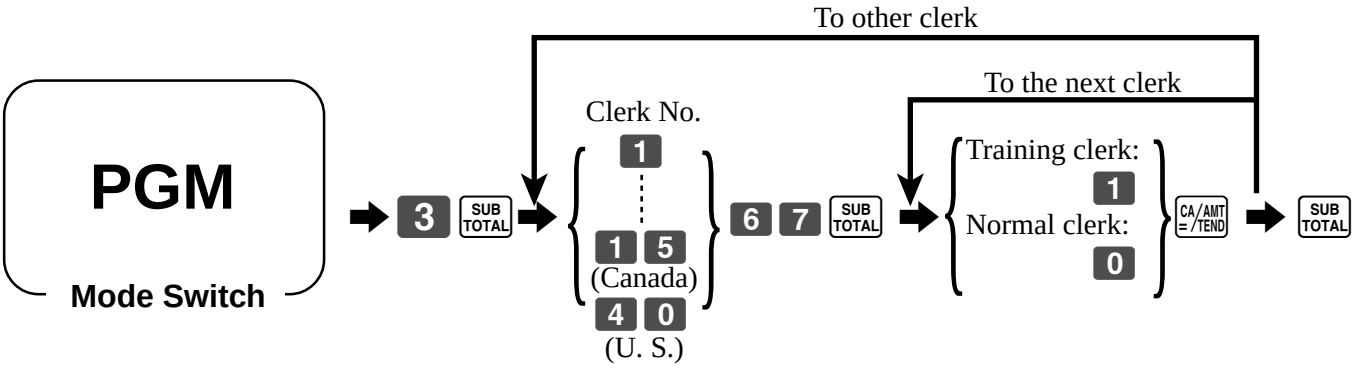
Programming to clerk

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

Programming clerk number



Programming trainee status of clerk



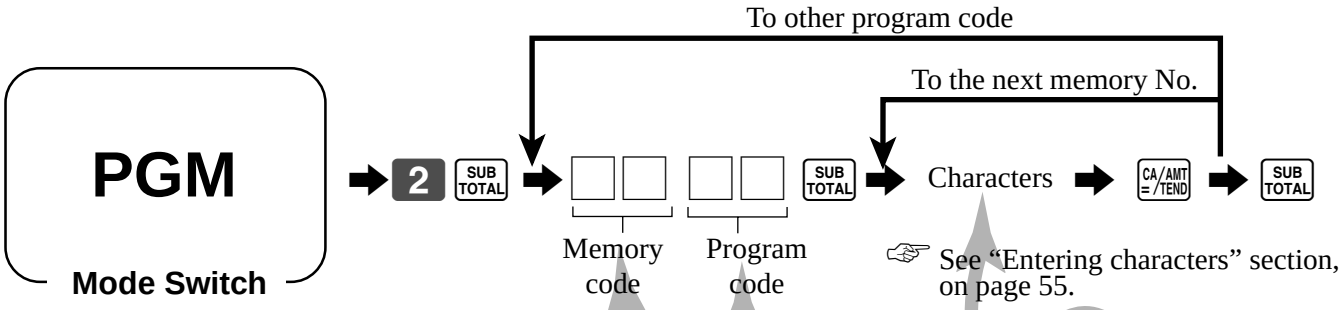
When a training clerk signs on, the cash register automatically enters the training mode.
In the training mode, no operations are affected on any totalizers nor counters.
The training mode symbols are printed in the columns of receipt entries produced in the training mode.
The cash register exits the training mode when the training clerk signs off.

Programming descriptors and messages

The following descriptors and messages can be programmed;

- Report descriptor (such as gross total, net total, cash in drawer…)
- Grand total
- Special character (such as mode symbol, taxable symbol…)
- Read/reset report title
- Clerk name
- PLU item descriptor
- Messages (Logo, commercial and bottom message)
- Function key descriptor
- Department key descriptor

Programming report descriptor, grand total, special character, report title, receipt message and clerk name



Report descriptor

Memory No.	Program code	Contents	Initial character	Yours
01	01	Gross total	GROSS TOTAL	
02		Net total	NET TOTAL	
03		Cash in drawer	CASH-INDW	
04		Charge in drawer	CHARGE-INDW	
05		Check in drawer	CHECK-INDW	
06		not used		
07		Foreign currency cash in drawer	CE-CASH 1	
08		Foreign currency check in drawer	CE-CHECK 1	
09		not used		
10		not used		
11		Taxable amount 1	TAX-AMT 1	
12		Tax 1	TAX 1	
13		Taxable amount 2	TAX-AMT 2	
14		Tax 2	TAX 2	
15		Taxable amount 3	TAX-AMT 3	
16		Tax 3	TAX 3	
17		Taxable amount 4	TAX-AMT 4	
18		Tax 4	TAX 4	
19		not used		
20		not used		
21		not used		
22		Cancellation total	CANCEL TTL	
23		Refund mode total	RF-MODE TTL	
24		not used		
25		not used		
26		Calculator mode count	CALCULATOR	
27		Non-link department total	NON-LINK DPT	

Grand total, special character

Memory No.	Program code	Contents	Initial character	Yours
01	20	Grand total	GRND TTL	
01		Amount/@/No./Quantity (2 each)	$ @NoQT	
02		Item count/Customer (2 each)	NoCT	
03		Multiplication/Split pricing (2 each)	X /	
04		Taxable status 1 ~ 4 (2 each)	T1T2T3T4	
05		All taxable status	*	
06		Foreign currency symbol (2)	*	
07		REG mode/Refund mode (4 each)	REG RF	
08		not used (4)/Program mode (3)	PGM n (n=1~6)	
09		X/Z mode (4 each)	X Z	
10		CAL mode (4)	CAL	
11		Training mode	****	
12		Training symbol	********	
13	23	Total symbol (Tendering)	TOTAL	
14		Change symbol	CHANGE	
15		not used		
16		Total symbol (Post receipt)	TOTAL	
17		Total symbol (% registration)	ST	
18		AM, PM (3 each)	AM PM	
19		Tax total	TAX	
20		not used		
21		not used		
22		not used		
23		not used		
24		not used		
25		not used		
26		Total message on report	TOTAL	

Report title

Memory No.	Program code	Contents	Initial character	Yours
01		Daily report title	DAILY	
02		PLU report title	PLU	
03		Hourly sales report title	HOURLY	
04		Group report title	GROUP	
05		Not used	CLERK	
06		Financial report title	FLASH	
07	24	Monthly report title	MONTHLY	
08		Periodic-1 report title	PERIODIC-1	
09		Periodic-2 report title	PERIODIC-2	
10		Individual report title		
11		Not used		
12		Not used		

Clerk name

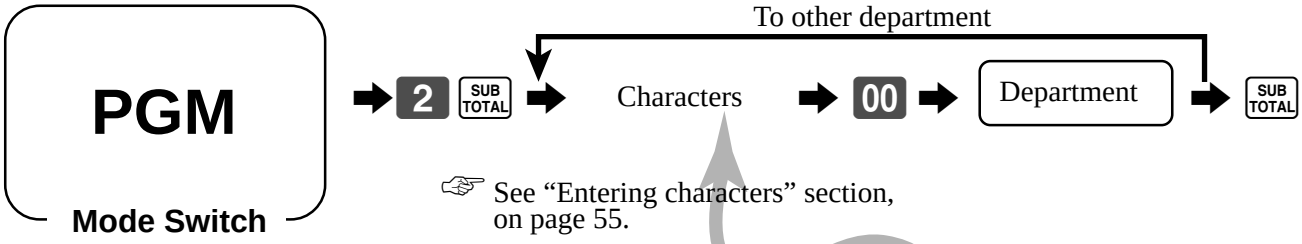
Memory No.	Program code	Contents	Initial character	Yours
01		Clerk 01	CLERK 01	
02		Clerk 02	CLERK 02	
03		Clerk 03	CLERK 03	
04	07	Clerk 04	CLERK 04	
			CLERK 05	

Receipt message

Refer to “Programming receipt message/logo stamp control function” on page 54.

Memory No.	Program code	Contents	Initial character	Yours
01	32	1st line of logo message		
02		2nd line of logo message	YOUR RECEIPT	
03		3rd line of logo message	THANK YOU	
04		4th line of logo message	CALL AGAIN	
05		5th line of logo message		
06		6th line of logo message		
07		1st line of commercial message		
08		2nd line of commercial message		
09		3rd line of commercial message		
10		4th line of commercial message		
11		5th line of commercial message		
12		1st line of bottom message		
13		2nd line of bottom message		
14		3rd line of bottom message		
15		4th line of bottom message		
16		5th line of bottom message		

Programming department key descriptor



Contents	Initial character	Yours
Department 01	DEPT01	
Department 02	DEPT02	
Department 03	DEPT03	
Department 04	DEPT04	
Department 05	DEPT05	
Department 06	DEPT06	
Department 07	DEPT07	
Department 08	DEPT08	
Department 09	DEPT09	
Department 10	DEPT10	

Department designation

Department

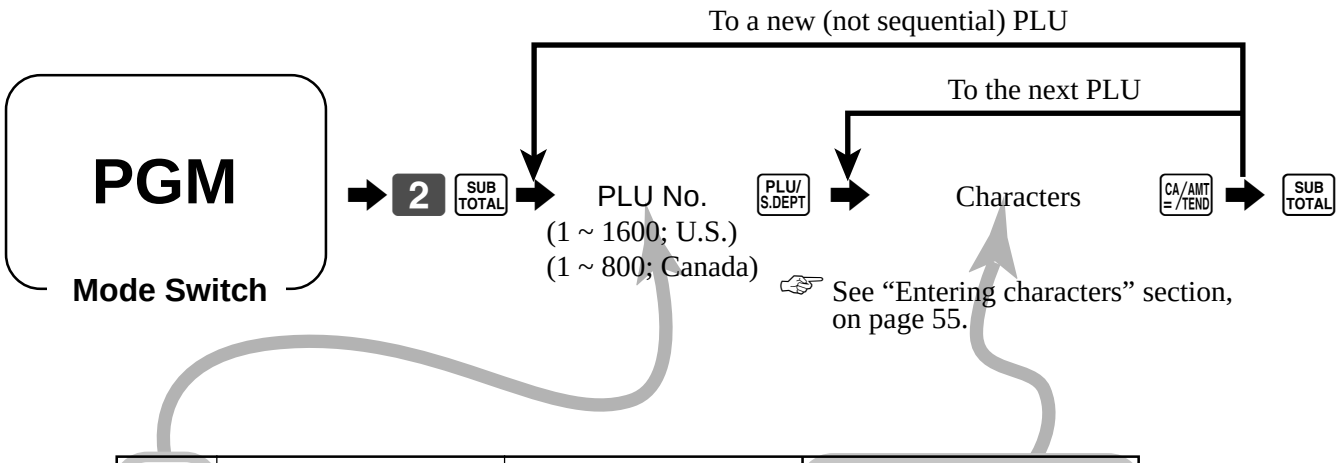
for the U.S.

- 49/73 25 1 (Dept.1)
- 50/74 26 2 (Dept.2)
- :
- 72/96 48 24 (Dept.24)
- DEPT SHIFT + 49/73 25 1 (Dept.25)
- :
- DEPT SHIFT + 72/96 48 24 (Dept.48)
- DEPT SHIFT DEPT SHIFT + 49/73 25 1 (Dept.49)
- DEPT SHIFT DEPT SHIFT + 50/74 26 2 (Dept.50)
- :
- DEPT SHIFT DEPT SHIFT + 72/96 48 24 (Dept.72)
- DEPT SHIFT DEPT SHIFT DEPT SHIFT + 49/73 25 1 (Dept.73)
- :
- DEPT SHIFT DEPT SHIFT DEPT SHIFT + 72/96 48 24 (Dept.96)

for Canada

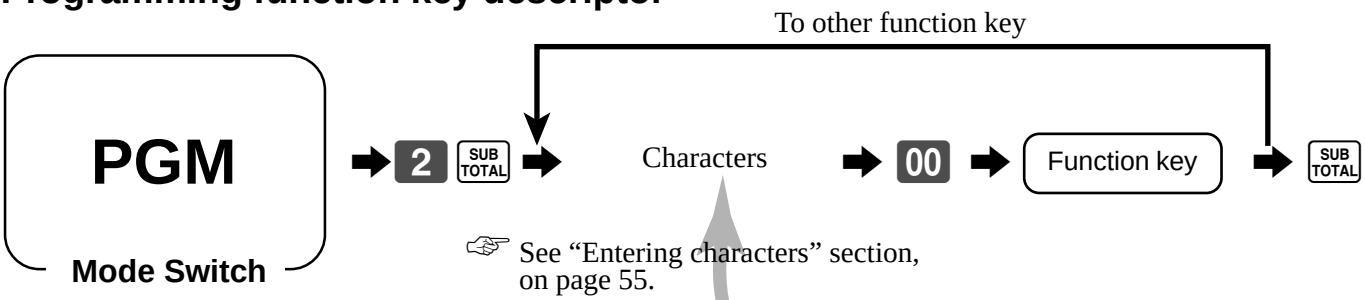
- + 1 (Dept.1)
- - 2 (Dept.2)
- :
- 24 (Dept.24)

Programming PLU descriptor



PLU No.	Contents	Initial character	Yours
001	PLU001	PLU0001	
002	PLU002	PLU0002	
003	PLU003	PLU0003	
004	PLU004	PLU0004	
005	PLU005	PLU0005	
006	PLU006	PLU0006	
007	PLU007	PLU0007	
008	PLU008	PLU0008	
009	PLU009	PLU0009	
010	PLU010	PLU0010	
011	PLU011	PLU0011	
012	PLU012	PLU0012	
013	PLU013	PLU0013	
014	PLU014	PLU0014	
015	PLU015	PLU0015	
016	PLU016	PLU0016	
017	PLU017	PLU0017	
018	PLU018	PLU0018	
019	PLU019	PLU0019	
020	PLU020	PLU0020	
021	PLU021	PLU0021	
022	PLU022	PLU0022	
023	PLU023	PLU0023	
024	PLU024	PLU0024	
025	PLU025	PLU0025	
026	PLU026	PLU0026	
027	PLU027	PLU0027	
028	PLU028	PLU0028	
029	PLU029	PLU0029	
030	PLU030	PLU0030	
031	PLU031	PLU0031	
032	PLU032	PLU0032	
033	PLU033	PLU0033	
034	PLU034	PLU0034	
035	PLU035	PLU0035	
036	PLU036	PLU0036	
037	PLU037	PLU0037	
038	PLU038	PLU0038	
039	PLU039	PLU0039	

Programming function key descriptor

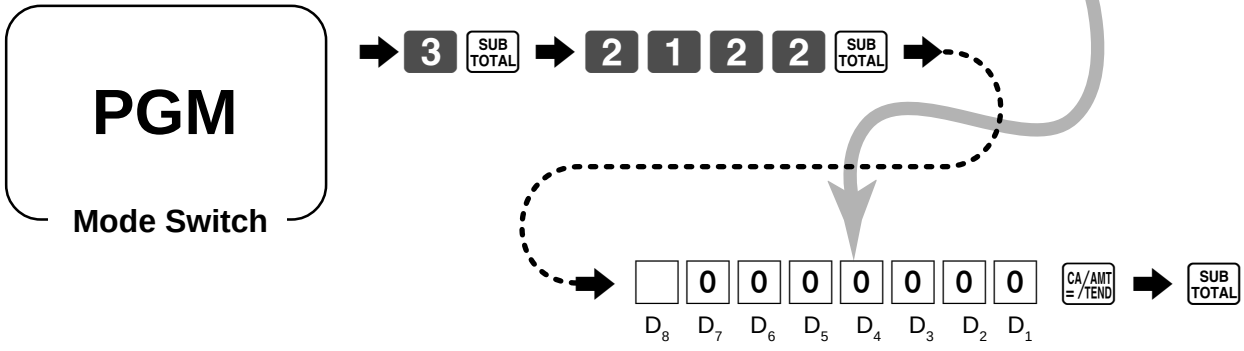


☞ See "Entering characters" section, on page 55.

Contents	Initial character	Yours
Cash/amount tendered	CASH	
Charge	CHARGE	
Check	CHECK	
Received on account	RC	
Paid out	PD	
Minus	–	
Discount	%–	
Premium	%+	
Refund	REFUND	
Error correct/Cancel	ERR CORR	
Non-add/No sale	#/NS	
Non-add	#	
No sale	NS	
Post receipt	P/G RCT	
Currency exchange	CURR EXG	
MD/ST	MDST	
Price	PRICE	
Open	OPEN	
Clerk No.	SIGN ON	
Subtotal	TL	
Receipt on/off	R ON/OFF	
Multiplication/For/Date time	QTY/FOR	

Programming receipt message/logo stamp control function

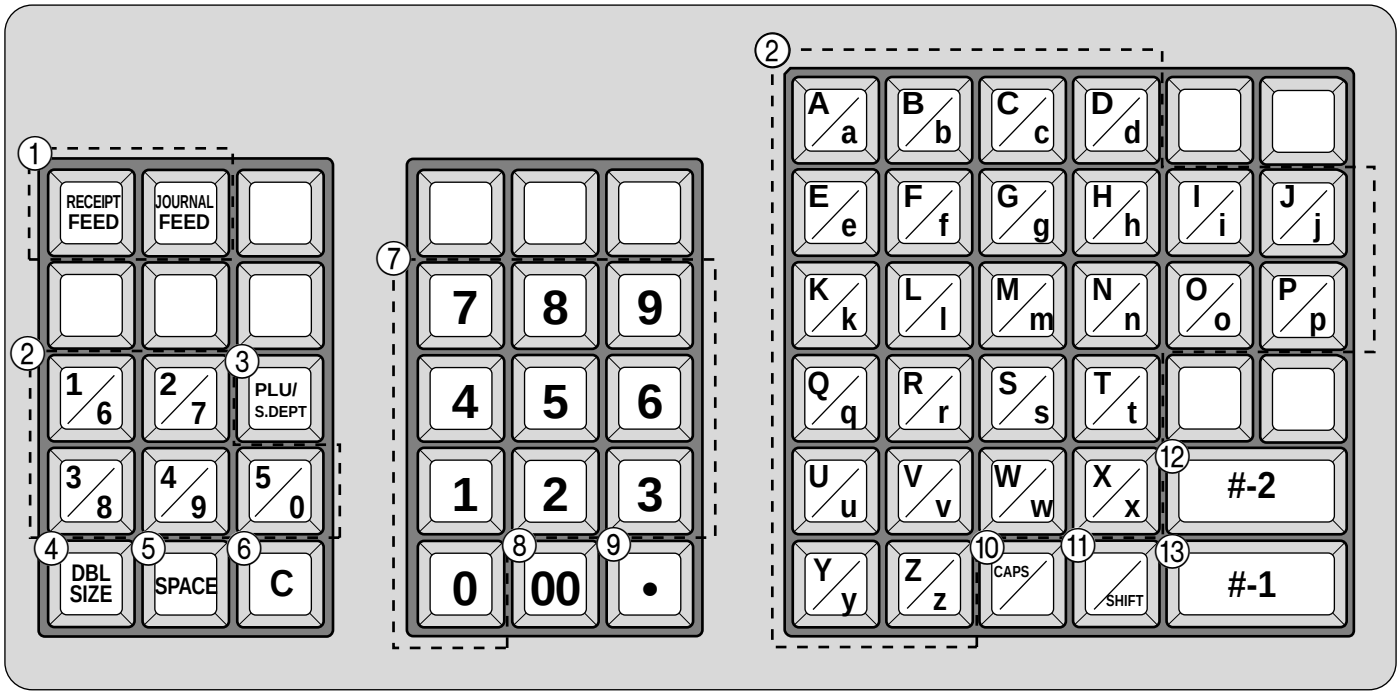
① Print graphic logo (electronic logo stamp), ② Logo message	a	① = 0 ② = 1	a+b+c = □ D_8
Print commercial message.	b	No = 0 Yes = 2	
Print bottom message.	c	No = 0 Yes = 4	
Always "0000000"			0 ~ 0 D_7~D_1



Entering characters

In this section, the method to enter descriptors or messages (characters) to the cash register during programming is described.
Characters are specified by character keyboard or by codes. In the first half of this section, the usage of character keyboard is described. In the latter half, inputting method by character code is described.

Using character keyboard



① **Feed key**
Hold this key down to feed paper from the printer.

② **Alphabet keys**
Used input to characters.

③ **PLU/S.DEPT key**
Use this key to input PLU/Subdepartment numbers.

④ **Double size letter key**
Specifies that the next character you input to a double size character. You must press this key before each double size character.

⑤ **Space key**
Set a space by depression.

⑥ **Clear key**
Clears all input characters in the programming.

⑦ **Numeric keys**
Used to enter program codes, memory number and character codes.

⑧ **Character fixed key**
Enter when the alphabetic entry for a descriptor, name or message has been completed.

⑨ **Backspace/Character code fixed key**
Registers one character with code (2 or 3 digits).
Clears the last input character, much like a back space key.

⑩ **CAPS key**
Pressing this key shifts the character from the lowercase letter to upper case letter.

⑪ **Shift key**
Pressing this key shifts the character from the uppercase letter to lower case letter.

⑫ **Program end key**
Terminates the character programming.

⑬ **Character enter key**
Registers the programmed characters.

Example:
Input “ A p p l e J u i c e ”,
enter “DBL SIZE”, “A”, “SHIFT”, “p”, “p”, “l”, “e”, “SPACE”, “CAPS”, “J”, “SHIFT”, “u”, “i”, “c”, “e” .

Entering characters by code

Every time you enter a character, choose character codes by the character code list (below) and press the • key to settle it.

Example:
Input “ A p p l e J u i c e ”,
enter “ 255 • 65 • 112 • 112 • 108 • 101 • 32 • 74 • 117 • 105 • 99 • 101 • ”.

Character code list

Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code
Space	32	0	48	@	64	P	80	'	96	p	112	Ç	128
!	33	1	49	A	65	Q	81	a	97	q	113	ü	129
"	34	2	50	B	66	R	82	b	98	r	114	é	130
#	35	3	51	C	67	S	83	c	99	s	115	â	131
$	36	4	52	D	68	T	84	d	100	t	116	ä	132
%	37	5	53	E	69	U	85	e	101	u	117	à	133
&	38	6	54	F	70	V	86	f	102	v	118	å	134
'	39	7	55	G	71	W	87	g	103	w	119	ç	135
(	40	8	56	H	72	X	88	h	104	x	120	ê	136
)	41	9	57	I	73	Y	89	i	105	y	121	ë	137
*	42	:	58	J	74	Z	90	j	106	z	122	è	138
+	43	;	59	K	75	[	91	k	107	{	123	ï	139
,	44	<	60	L	76	\	92	l	108	|	124	î	140
-	45	=	61	M	77	]	93	m	109	}	125	ì	141
.	46	>	62	N	78	^	94	n	110	~	126	Ä	142
/	47	?	63	O	79	_	95	o	111		127	Å	143

Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code
É	144	á	160	▒	176	└	192	ð	208	Ó	224	-	240
æ	145	í	161	▓	177	┴	193	Ð	209	ß	225	±	241
Æ	146	ó	162	▉	178	┬	194	Ê	210	Ô	226	_	242
ô	147	ú	163	▏	179	├	195	Ë	211	Ò	227	3/4	243
ö	148	ñ	164	┤	180	─	196	È	212	õ	228	¶	244
ò	149	Ñ	165	Á	181	┼	197	€	213	Õ	229	§	245
û	150	ª	166	Â	182	ã	198	Í	214	µ	230	÷	246
ù	151	º	167	À	183	Ã	199	Î	215	þ	231	¸	247
ÿ	152	¿	168	©	184	╚	200	Ï	216	Þ	232	°	248
Ö	153	®	169	╣	185	╔	201	┘	217	Ú	233	¨	249
Ü	154	¬	170	▏	186	╩	202	┌	218	Û	234	•	250
ø	155	1/2	171	╗	187	╦	203	▉	219	Ù	235	1	251
£	156	1/4	172	┘	188	╠	204	▃	220	ý	236	3	252
Ø	157	¡	173	¢	189	═	205	▏	221	Ý	237	2	253
×	158	«	174	¥	190	╬	206	Ì	222	¯	238	▮	254
ƒ	159	»	175	ı	191	¤	207	▃	223	'	239	Double size	255

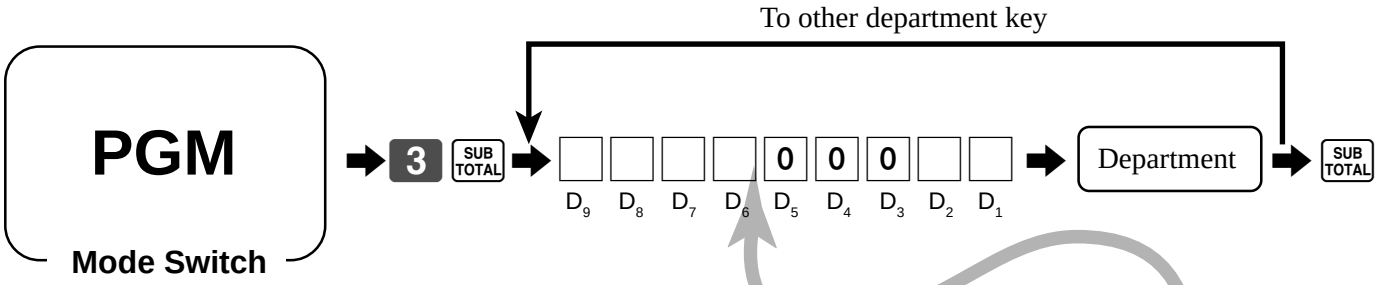
▒: for R/J printer only.
The “Ä”, “Ö”, “Ü” characters are displayed as “A”, “O”, “U”.

Department key feature programming

There are two different methods you can use to assign features to department keys.
With “Batch feature programming”, you can use a single operation to assign multiple features.
“Individual feature programming”, on the other hand, let you assign features one-by-one.
This method is recommended for programming of special features to individual department keys.

Batch feature programming

When using this procedure to assign multiple features to departments, use 9-digit codes that you create using the following procedure



Negative department	a	No = 0 Yes = 2	a+b = □ D_9
Hash department	b	No = 0 Yes = 4	
Single item sale		No = 0 Yes = 1	□ D_8
High digit limit specification		Significant number	□ D_7
Taxable status 1 (for the U.S. model)	a	No = 0 Yes = 1	a+b+c = □ D_6
Taxable status 2 (for the U.S. model)	b	No = 0 Yes = 2	
Taxable status 3 (for the U.S. model)	c	No = 0 Yes = 4	
Taxable status (for the Canadian model) Non tax = 0, Taxable 1 = 1, Taxable 2 = 2, Taxable 3 = 3, Taxable 4 = 4, Taxable 1 & 2 = 5, Taxable 1 & 3 = 6, Taxable 1 & 4 = 7		Significant number	□ D_6
Always “000”			0 ~ 0 D_5~ D_3
Group link (00 ~ 50)		Significant numbers	□ □ D_2 D_1

Department designation

Department

for the U.S.

49/73 25 1 (Dept.1)
50/74 26 2 (Dept.2)
:
72/96 48 24 (Dept.24)
DEPT SHIFT 49/73 25 1 (Dept.25)
:
DEPT SHIFT 72/96 48 24 (Dept.48)

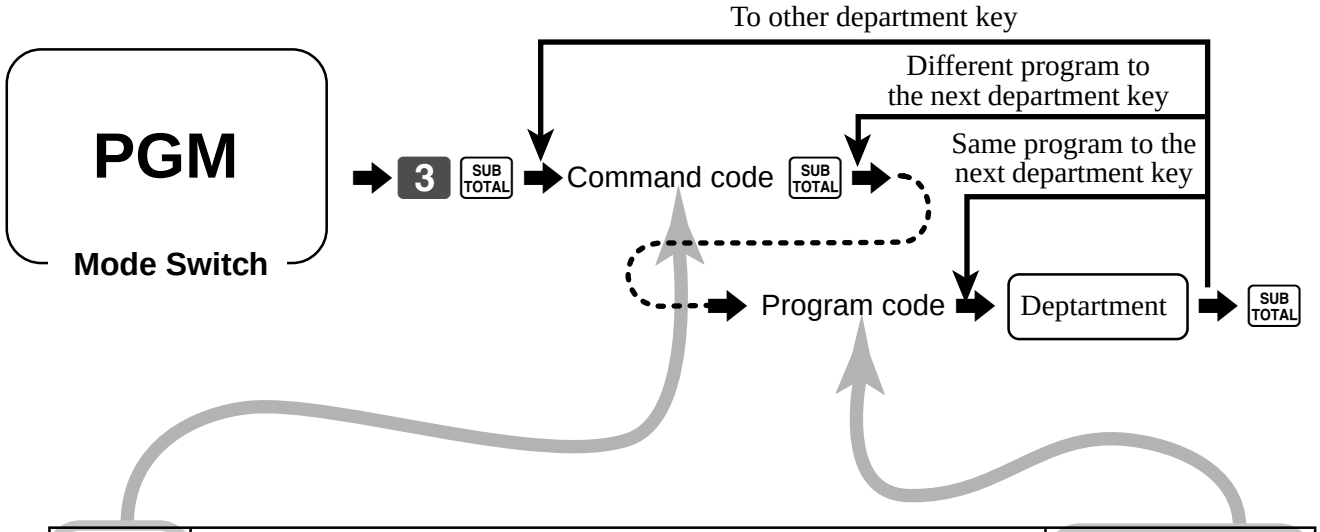
DEPT SHIFT 49/73 25 1 (Dept.49)
DEPT SHIFT 50/74 26 2 (Dept.50)
:
DEPT SHIFT 72/96 48 24 (Dept.72)
DEPT SHIFT DEPT SHIFT 49/73 25 1 (Dept.73)
:
DEPT SHIFT DEPT SHIFT 72/96 48 24 (Dept.96)

for Canada

+ 1 (Dept.1)
– 2 (Dept.2)
:
24 (Dept.24)

Individual feature programming

With this procedure, you can assign individual features to specific departments. Please select the command code of the contents you want to program, and follow the procedure below.



Command code	Contents/selection			Program code
0166	Negative department	a	No = 0 Yes = 2	a+b = ☐
	Hash department	b	No = 0 Yes = 4	
1866	Single item sale		No = 0 Yes = 1	☐
1566	High digit limit specification		Significant number	☐
0366	Taxable status 1 (for the U.S. model)	a	No = 0 Yes = 1	a+b+c = ☐
	Taxable status 2 (for the U.S. model)	b	No = 0 Yes = 2	
	Taxable status 3 (for the U.S. model)	c	No = 0 Yes = 4	
	Taxable status (for the Canadian model) Non tax = 0, Taxable 1 = 1, Taxable 2 = 2, Taxable 3 = 3, Taxable 4 = 4, Taxable 1 & 2 = 5, Taxable 1 & 3 = 6, Taxable 1 & 4 = 7		Significant number	☐
1166	Group link (00 ~ 50)		Significant numbers	☐☐

To program a unit price to a department key, please refer the page 27.

Department designation

Department

for the U.S.

49/73 25 1 (Dept.1)
50/74 26 2 (Dept.2)
:
72/96 48 24 (Dept.24)
DEPT SHIFT 49/73 25 1 (Dept.25)
:
DEPT SHIFT 72/96 48 24 (Dept.48)

DEPT SHIFT DEPT SHIFT 49/73 25 1 (Dept.49)
DEPT SHIFT DEPT SHIFT 50/74 26 2 (Dept.50)
:
DEPT SHIFT DEPT SHIFT 72/96 48 24 (Dept.72)
DEPT SHIFT DEPT SHIFT DEPT SHIFT 49/73 25 1 (Dept.73)
:
DEPT SHIFT DEPT SHIFT DEPT SHIFT 72/96 48 24 (Dept.96)

for Canada

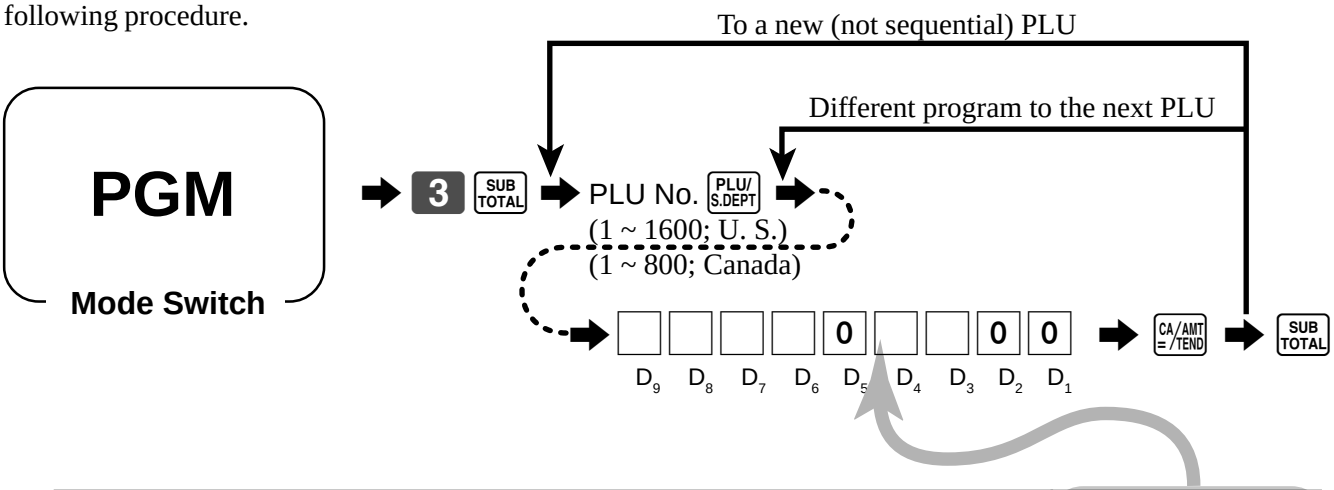
+ 1 (Dept.1)
- 2 (Dept.2)
:
24 (Dept.24)

PLU feature programming

There are two different methods you can use to assign features to PLUs.
With “Batch feature programming”, you can use a single operation to assign multiple features.
“Individual feature programming”, on the other hand, let you assign features one-by-one.
This method is recommended for programming of special features to individual PLUs.

Batch feature programming

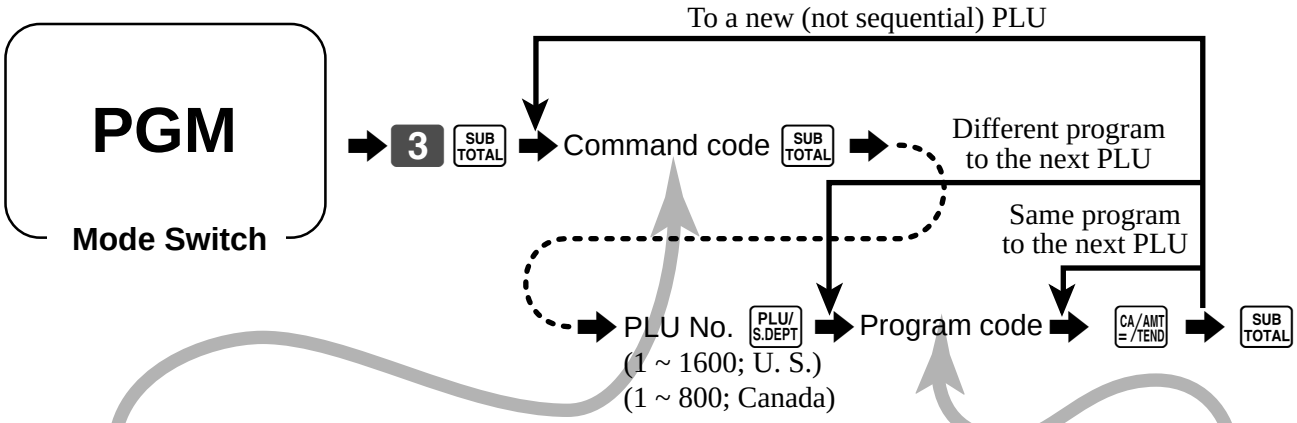
When using this procedure to assign multiple features to PLUs, use 9-digit codes that you create using the following procedure.



Negative PLU	a	No = 0 Yes = 2	a+b = ☐ D_9
Hash PLU	b	No = 0 Yes = 4	
Single item sale	a	No = 0 Yes = 1	a+b = ☐ D_8
Treat as subdepartment/PLU.	b	PLU = 0 Subdept. = 4	
High digit limit specification (for subdepartment)		Significant number	☐ D_7
Taxable status 1 (for the U.S. model)	a	No = 0 Yes = 1	a+b+c = ☐ D_6
Taxable status 2 (for the U.S. model)	b	No = 0 Yes = 2	
Taxable status 3 (for the U.S. model)	c	No = 0 Yes = 4	
Taxable status (for the Canadian model) Non tax = 0, Taxable 1 = 1, Taxable 2 = 2, Taxable 3 = 3, Taxable 4 = 4, Taxable 1 & 2 = 5, Taxable 1 & 3 = 6, Taxable 1 & 4 = 7		Significant number	☐ D_6
Always “0”			0 D_5
Department link (00 ~ 96; U.S., 00 ~ 24; Canada)		Significant numbers	☐☐ D_4D_3
Always “00”			0 0 D_2D_1

Individual feature programming

With this procedure, you can assign individual features to specific PLUs. Please select the command code of the contents you want to program, and follow the procedure below.



Command code	Contents/selection			Program code
0166	Negative PLU	a	No = 0 Yes = 2	a+b = ☐
	Hash PLU	b	No = 0 Yes = 4	
1866	Single item sale	a	No = 0 Yes = 1	a+b = ☐
	Treat as subdepartment (If "No", treat as PLU.)	b	No = 0 Yes = 4	
1566	High digit limit specification		Significant number	☐
0366	Taxable status 1 (for the U.S. model)	a	No = 0 Yes = 1	a+b+c = ☐
	Taxable status 2 (for the U.S. model)	b	No = 0 Yes = 2	
	Taxable status 3 (for the U.S. model)	c	No = 0 Yes = 4	
	Taxable status (for the Canadian model) Non tax = 0, Taxable 1 = 1, Taxable 2 = 2, Taxable 3 = 3, Taxable 4 = 4, Taxable 1 & 2 = 5, Taxable 1 & 3 = 6, Taxable 1 & 4 = 7		Significant number	☐
1166	Department link (00 ~ 96; U.S., 00 ~ 24; Canada)		Significant numbers	☐☐00

To program a unit price to a PLU or a subdepartment, please refer to the page 29.

Registering example

REG

Mode Switch

Locking out and releasing high digit limitation

OPERATION **RECEIPT**

Item	Unit price	$10.50
	Quantity	1
	Dept.	2
	Taxable	(1)
	Max. digit	(3)
Payment	Cash	$20.00

( ): Preset value

1 0 5 0 [-2]

ERROR ALARM
(Exceeding max. digits)

[C/AC]

[OPEN]

Cancels limitations for next entry

1 0 5 0 [-2]

[SUB TOTAL]

2 0 00 [CA/AMT =/TEND]

```
REG  06-15-2002 12:40
                000030

DEPT02      T1    $10.50
TAX-AMT 1         $10.50
TAX 1              $0.53
TOTAL            $11.03
CASH             $20.00
CHANGE            $8.97
```

Single item sales items

You can issue a receipt by simply touching the single item sales department or PLU. The following examples show how you register single-item-sale departments. Registration of single item sale PLUs is identical.

Single item

OPERATION **RECEIPT**

Item	Unit price	$2.00
	Quantity	1
	Dept.	4
	Taxable	(2)
	Sales status	(Single item)

( ): Preset value

2 00 [÷4]

```
REG  06-15-2002 12:45
CLERK 01        000031

DEPT04      T2    $2.00
TAX-AMT 2         $2.00
TAX 2             $0.20
CASH              $2.20
```

Multiple item sale

OPERATION **RECEIPT**

Item 1	Unit price	$2.00
	Quantity	1
	Dept.	2
	Taxable	(2)
	Sales status	(Normal)
Item 2	Unit price	$2.00
	Quantity	1
	Dept.	4
	Taxable	(2)
	Sales status	(Single item)
Payment	Cash	$7.70

( ): Preset value

2 00 [-2]

5 00 [÷4]

Single item status is not effective during transaction.

[CA/AMT =/TEND]

It is necessary to press the finalize key.

```
REG  06-15-2002 12:50
CLERK 01        000032

DEPT02      T2    $2.00
DEPT04      T2    $5.00
TAX-AMT 2         $7.00
TAX 2             $0.70
CASH              $7.70
```

Note: The single item sales department or PLU should be registered at the top of the transaction, otherwise the transaction is not finalized. It is necessary to press [CA/AMT =/TEND], [CH] or [CHK] key.

Examples of registering subdepartments

Single item sale

Item	Unit price	$6.00
	Quantity	1
	Subdept.	15
	Taxable	(1)
Payment	Cash	$10.00

( ): Preset value

OPERATION

1 5 PLU/S.DEPT
PLU (subdepartment) code

6 00 PRICE
Unit price

SUB TOTAL

1 0 00 CA/AMT =/TEND

RECEIPT

```
REG  06-15-2002 12:55
CLERK 01          000033

PLU0015     T1      $6.00
TAX-AMT 1           $6.00
TAX 1               $0.30
TOTAL              $6.30
CASH               $10.00
CHANGE              $3.70
```

Repeat

Item 1	Unit price	($3.00)
	Quantity	3
	Subdept.	15
	Taxable	(1)
Item 2	Unit price	$2.00
	Quantity	2
	Subdept.	15
	Taxable	(1)
Payment	Cash	$20.00

( ): Preset value

OPERATION

1 5 PLU/S.DEPT

PLU/S.DEPT
Hit PRICE without a unit price recalls preset price.

PRICE

PRICE

1 5 PLU/S.DEPT

2 00 PRICE

PRICE

SUB TOTAL

2 0 00 CA/AMT =/TEND

RECEIPT

```
REG  06-15-2002 13:00
CLERK 01          000034

PLU0015     T1      $3.00
PLU0015     T1      $3.00
PLU0015     T1      $3.00
PLU0015     T1      $2.00
PLU0015     T1      $2.00
TAX-AMT 1           $13.00
TAX 1               $0.65
TOTAL             $13.65
CASH               $20.00
CHANGE              $6.35
```

Multiplication

Item	Unit price	$6.00
	Quantity	1.25
	Subdept.	15
	Taxable	(1)
Payment	Cash	$10.00

( ): Preset value

OPERATION

1 . 2 5 ×/FOR /DATE TIME
Quantity
(4-digit integer/2-digit decimal)

1 5 PLU/S.DEPT

6 00 PRICE

SUB TOTAL

1 0 00 CA/AMT =/TEND

RECEIPT

```
REG  06-15-2002 13:05
CLERK 01          000035

   1.25  X       @6.00
PLU0015     T1      $7.50
TAX-AMT 1           $7.50
TAX 1               $0.38
TOTAL              $7.88
CASH               $10.00
CHANGE              $2.12
```

Split sales of packaged item

Item	Unit price	$30.00
	Quantity	7 / 12
	Subdept.	37
	Taxable	(1)
Payment	Cash	$20.00

( ): Preset value

OPERATION

7 [X/FOR DATE TIME]
Quantity being purchased
(4-digit integer/2-digit decimal)

1 2 [X/FOR DATE TIME]
Quantity being purchased
(4-digit integer/2-digit decimal)

3 7 [PLU/S.DEPT]

3 0 00 [PRICE]
Package price

[SUB TOTAL]

2 0 00 [CA/AMT =/TEND]

RECEIPT

```
REG   06-15-2002 08:55
                 000007

       7  X
         @12  /     30.00
PLU0037      T1    $17.50
TAX-AMT  1         $17.50
TAX  1              $0.88
TOTAL             $18.38
CASH               $20.00
CHANGE              $1.62
```

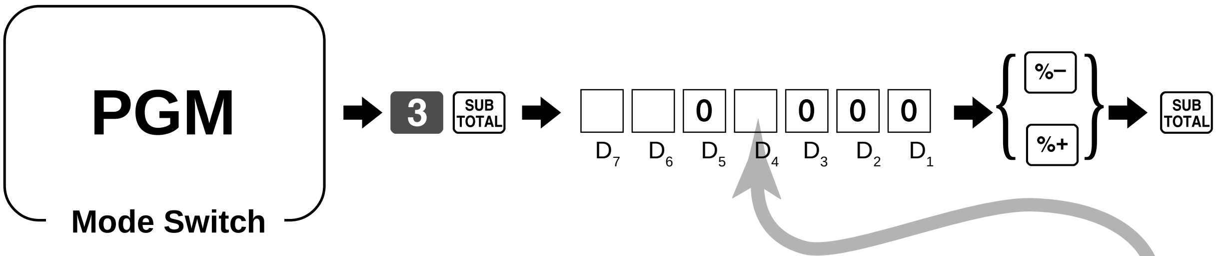
Quantity
Package quantity/ unit price

Percent key feature programming

In this section, detail information of [%–]/[%+] is described.

Programming to the percent key

To program a percent rate, please refer to the page 31.



Fraction control, round off = 0, cut off = 1, round up = 2		Significant number	D_7
Key attribution	a	Original = 0 M-Tax = 4	a+b = D_6
Prohibit manual entry to override programmed percentage.	b	No = 0 Yes = 2	
Always "0"			0 D_5
Taxable status 1 (for the U.S. model)	a	No = 0 Yes = 1	a+b+c = D_4
Taxable status 2 (for the U.S. model)	b	No = 0 Yes = 2	
Taxable status 3 (for the U.S. model)	c	No = 0 Yes = 4	
Taxable status (for the Canadian model) Non tax = 0, Taxable 1 = 1, Taxable 2 = 2, Taxable 3 = 3, Taxable 4 = 4, Taxable 1 & 2 = 5, Taxable 1 & 3 = 6, Taxable 1 & 4 = 7, All taxable = 9		Significant number	D_4
Always "000"			0 ~ 0 D_3~D_1

Registering manual tax

REG

Mode Switch

You can program the cash register to change the function of the %− / %+ key to that of a M-TAX (manual tax) key. The M-TAX key is used to register manually entered tax amounts.

Example

Item 1	Unit price	$10.00
	Quantity	1
	Dept.	2
	Taxable	(No)
	M-Tax	50
Item 2	Unit price	$20.00
	Quantity	1
	Dept.	4
	Taxable	(2)
Payment	Cash	$33.00

( ): Preset value

OPERATION

1 0 00 50/74 −26 2

5 0 M-TAX

%− / %+ key is assigned to M-TAX key.

2 0 00 52/76 28 ÷4

SUB TOTAL

3 3 00 CA/AMT =/TEND

RECEIPT

```
REG  06-15-2002 13:20
CLERK 01            000038

DEPT02              $10.00
M-TAX                $0.50
DEPT04       T2     $20.00
TAX-AMT 2           $20.00
TAX 2                $2.00
TOTAL               $32.50
CASH                $33.00
CHANGE               $0.50
```

Important!

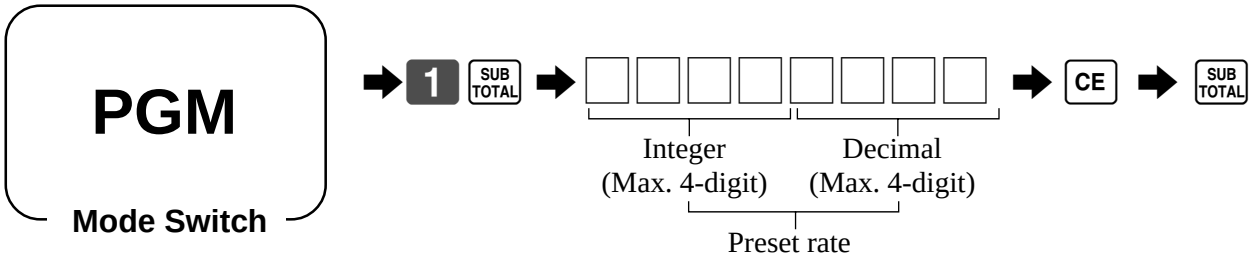
If you program the cash register to perform registrations with manually entered tax amounts, the M-TAX key replaces the %− / %+ key, so discount/premium registration will be impossible.

Also, please set the appropriate key descriptor to the key.

Currency exchange programming

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

Currency exchange rate programming

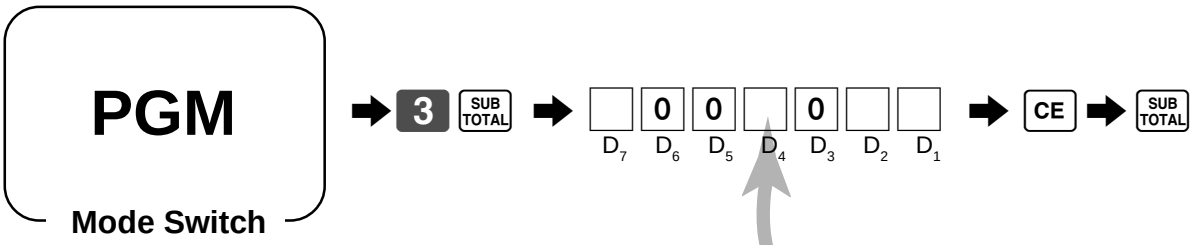


Example:

$1.00 = ¥110.50 ⇨ 1 · 1 0 5

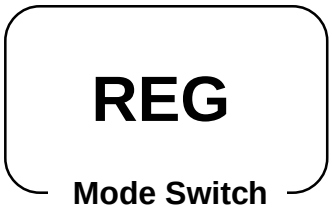
¥100 = $0.9050 ⇨ 0 · 9 0 5

Currency exchange feature programming



Fraction control, round off = 0, cut off = 1, round up = 2	Significant number	D_7
Always “00”		0 0 D_6 D_5
Monetary symbol for foreign currency; Local currency symbol = 0 Foreign currency symbol (in the special character program) = 1	Significant number	D_4
Always “0”		0 D_3
Digit separator for foreign currency; Period = 0, Comma = 2	Significant number	D_2
Monetary system code (decimal places) following currency exchange operation; Same as local currency = 0, 0.0 = 1, 0.00 = 2, 0 = 3	Significant number	D_1

Registering foreign currency



1) Full amount tender in foreign currency

* Preprogrammed exchange rate: ¥ 1 = $0.0090

Important!

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

OPERATION	DISPLAY	RECEIPT
[1] [0] [00] [+ 1] ← Enter the unit price and press the applicable department key.	10.00 (Displays in $)	
[2] [0] [00] [+ 1] ← Enter the next unit price and press the applicable department key.	20.00 (Displays in $)	
[CE] ← Press the [CE] key without entering a numeric value. This operation converts the subtotal (including tax) dollar value into yen by applying a preprogrammed exchange rate. The result is shown on the display but not printed on the receipt or journal.	3333 (Displays in ¥: 3,333)	
[5] [0] [00] [CE] ← Enter the amount tendered in yen and press the [CE] key. This operation converts the entered yen amount into dollars by applying a preprogrammed exchange rate. The result is shown on the display.	45.00 (Displays in $: 45.00)	
[CA/AMT =/TEND] ← Press to finalize the transaction. Note that you do not need to reenter the dollar amount. The register automatically calculates the change amount due in dollars and shows it on the display, receipts and journal.	15.00 (Displays in $)	

```
REG  06-15-2002 13:20
CLERK 01            000038

DEPT01              $10.00
DEPT01              $20.00
TOTAL               $30.00
CURR EXG
CASH                ¥5,000
CASH                $45.00
CHANGE              $15.00
```

2) Partial tender in a foreign currency

* Preprogrammed exchange rate: ¥ 1 = $0.0090

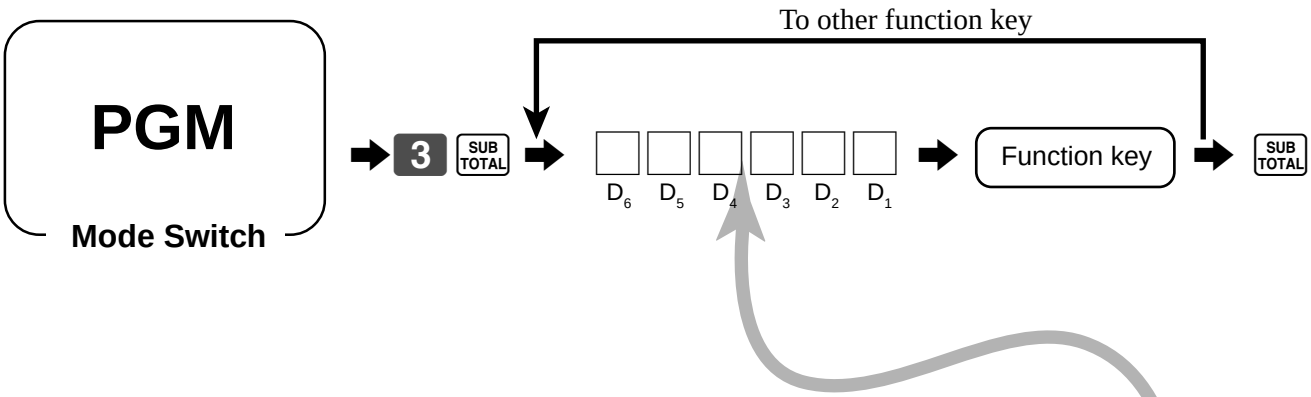
Important!

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

OPERATION		DISPLAY	RECEIPT
1 0 00 [+ 1]	← Enter the unit price and press the applicable department key.	10.00 (Displays in $)	REG 06-15-2002 13:25 CLERK 01 000039 DEPT01 $10.00 DEPT01 $20.00 TOTAL $30.00 CURR EXG CASH ¥2,000 CASH $18.00 CHECK $12.00
2 0 00 [+ 1]	← Enter the next unit price and press the applicable department key.	20.00 (Displays in $)	
[CE]	← Press the [CE] key without entering a numeric value. This operation converts the subtotal (including tax) dollar value into yen by applying a preprogrammed exchange rate. The result is shown on the display but not printed on the receipt or journal.	3333 (Displays in ¥: 3,333)	
2 0 00 [CE]	← Enter the partial amount tendered in yen and press the [CE] key. This operation converts the entered yen amount into dollars by applying a preprogrammed exchange rate. The result is shown on the display.	18.00 (Displays in $: 18.00)	
[CA/AMT =/TEND]	← Press the [CA/AMT =/TEND] key to specify cash tender for the yen partial tender. Note that you do not need to reenter the dollar amount. The register automatically deducts the dollar equivalent of the yen amount tendered from the total amount due and shows the amount on the display.	12.00 (Displays in $)	
[CHK]	← Press to finalize the transaction.	12.00 (Displays in $)	

Other function key feature programming

You can define a selection of features for the function keys by specifying an 8-digit program code for each key.



Cash, Charge, Check key

High amount limit specification for subtotal and tendering amounts *1		Maximum value (0 ~ 9) Number of zeros (0 ~ 9)	□□ $D_6 D_5$
Prohibit entry of a partial payment	a	No = 0 Yes = 1	a+b+c = □ D_4
Prohibit the entry of the amount tendered.	b	No = 0 Yes = 2	
Force entry of the amount tendered.	c	No = 0 Yes = 4	
Always “0”			0 D_3
High amount limit specification for change amount due. *1		Maximum value (0 ~ 9) Number of zeros (0 ~ 9)	□□ $D_2 D_1$

*1 High amounts limits:
High amount limitations are specified as 2-digits. The first digit you specify limits the maximum value of the leftmost digit of the value within the range of 0 through 9. The second digit you specify indicates the number of zeros in the limit value, again within the range of 0 through 9.
Example: $600.00 maximum ⇨ Enter 64.
Entering “00” clears the limitation.

Received on account, Paidout key

High amount limit specification for change amount due. (refer to *1 on the previous page.)	Maximum value (0 ~ 9) Number of zeros (0 ~ 9)	□ □ D_6 D_5
Always “0000”		0 ~ 0 D_4 ~ D_1

Minus key

Allow credit balance.		No = 0 Yes = 1	□ D_6
High digit limit specification		Significant number	□ D_5
Taxable status 1 (for the U.S. model)	a	No = 0 Yes = 1	a+b+c = □ D_4
Taxable status 2 (for the U.S. model)	b	No = 0 Yes = 2	
Taxable status 3 (for the U.S. model)	c	No = 0 Yes = 4	
Taxable status (for the Canadian model) Non tax = 0, Taxable 1 = 1, Taxable 2 = 2, Taxable 3 = 3, Taxable 4 = 4, Taxable 1 & 2 = 5, Taxable 1 & 3 = 6, Taxable 1 & 4 = 7, All taxable = 9		Significant number	□ D_4
Always “000”			0 ~ 0 D_3 ~ D_1

#/No sale key, No sale key

Treat as the first transaction.	No = 0 Yes = 1	□ D_6
Always “00000”		0 ~ 0 D_5 ~ D_1

Calculator functions

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

CAL

Mode Switch

Example 1 (Calculation examples)

	OPERATION	DISPLAY
Clear	C C	0
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.
12 % on 1500	1 5 0 0 -2 ×3 1 2 %-	180.

Example 2 (Memory recall)

Item 1	Unit price	$10.00
	Quantity	1
	Dept.	1
Item 2	Unit price	$20.00
	Quantity	1
	Dept.	1
Payment by 3 persons each,	Cash	$10.00

Turn to REG

1 0 00 +1

2 0 00 +1

SUB TOTAL

```
REG  06-15-2002 13:35
CLERK 01          000041

DEPT01            $10.00
DEPT01            $20.00
```

Turn to CAL

RC

30.

Memory recall:
Recalls subtotal amount

÷4 3 CA/AMT =/TEND

10.

Divides the subtotal by 3 persons

Turn to REG

PLU/ S.DEPT

Memory recall:
Recalls the result amount

CA/AMT =/TEND

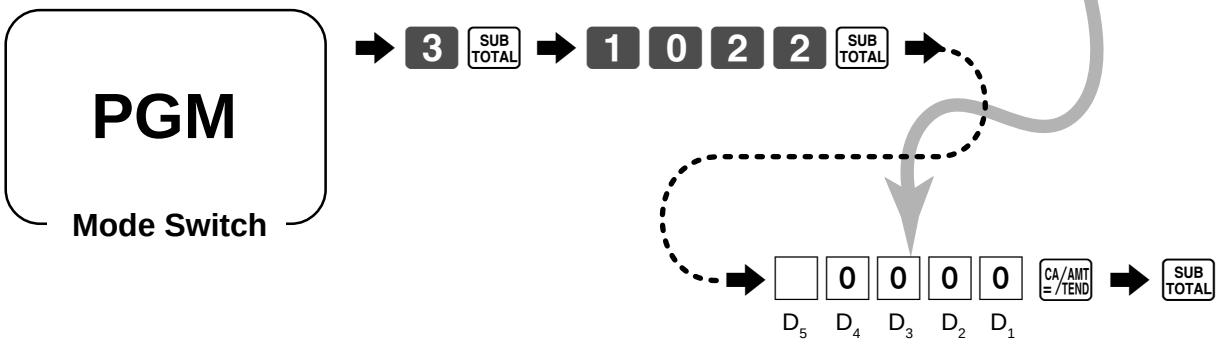
RC CA/AMT =/TEND

RC CA/AMT =/TEND

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

Programming calculator mode control

Open drawer when [CA/AMT =/TEND] (equal) is pressed in CAL mode.	a	No = 0 Yes = 1	a+b+c = [ ] D_5
Open drawer when [#/NS] (or [NS]) is pressed in CAL mode.	b	No = 0 Yes = 2	
Print calculator total on the daily report.	c	Yes = 0 No = 4	
Always "0000"			[0] ~ [0] D_4~ D_1



About the daylight saving time

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

REG
Mode Switch

OPERATION	DISPLAY	
• Forward by 1 hour		
[×/FOR DATE TIME]	12-34	
* [1]	12-34	(Blinking)
[×/FOR DATE TIME]	13-34	Set forward by 1 hour.
[C/AC]	0.00	
• Backward by 1 hour		
[×/FOR DATE TIME]	12-34	
[−]	12-34	(Blinking)
* [1]	12-34	(Blinking)
[×/FOR DATE TIME]	11-34	Set backward by 1 hour.
[C/AC]	0.00	

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

Printing read/reset reports

- **Read report**

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

- **Reset report**

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

Important!

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

To print the individual department, PLU/subdepartment read report

This report shows sales for specific departments or PLU/subdepartments.

OPERATION **REPORT**

X mode

Mode Switch

• Specifying a department

Department

• Specifying a PLU

1 ~ 1 6 00 PLU/S.DEPT (U. S.)

1 ~ 8 0 0 PLU/S.DEPT (Canada)

SUB TOTAL

```
X     06-15-2002 17:05      — Read mode/date/time
CLERK 01           000250   — Clerk/consecutive No.

                      X     — Read symbol

DEPT01          QT      15  — Department descriptor/No. of items
    29.6%          $339.50  — Sales ratio/department amount
DEPT02          QT      19
     5.46%          $62.70
PLU0001         QT      31  — PLU descriptor/No. of items
   12.12%         $139.10  — Sales ratio/PLU amount
PLU0002         QT      23
      29%          $332.67
------------------------
TOTAL           QT      88  — Total No. of items
    76.1%          $873.97  — Total amount
```

After you finish to select departments, PLU/subdepartments, press SUB TOTAL to terminate.

Department designation

Department

for the U.S.

49/73 25 1 (Dept.1)
50/74 26 2 (Dept.2)
:
72/96 48 24 (Dept.24)
DEPT SHIFT 49/73 25 1 (Dept.25)
:
DEPT SHIFT 72/96 48 24 (Dept.48)

DEPT SHIFT DEPT SHIFT 49/73 25 1 (Dept.49)
DEPT SHIFT DEPT SHIFT 50/74 26 2 (Dept.50)
:
DEPT SHIFT DEPT SHIFT 72/96 48 24 (Dept.72)
DEPT SHIFT DEPT SHIFT DEPT SHIFT 49/73 25 1 (Dept.73)
:
DEPT SHIFT DEPT SHIFT DEPT SHIFT 72/96 48 24 (Dept.96)

for Canada

+ 1 (Dept.1)
– 2 (Dept.2)
:
24 (Dept.24)

To print the financial read report

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

OPERATION **REPORT**

X mode

Mode Switch

Money declaration [*1]

(Cash in drawer amount [#/NS] or [#])

[X/FOR DATE TIME]

```
X     06-15-2002 17:10      ← Read mode/date/time
CLERK 01          000251    ← Clerk/consecutive No.

      FLASH   X             ← Report title/read symbol

GROSS TOTAL    QT     1216  ← Gross No. of items
                $21954.50   ← Gross amount
NET TOTAL      No      523  ← Net No. of customers
                $27733.12   ← Net amount
CASH-INDW       $27289.10   ← Cash in drawer (b)

#               $27270.00   ← Declared amount (a)
                   $19.10   ← Difference (b) - (a)
CHARGE-INDW       $398.00   ← Charge in drawer
CHECK-INDW        $332.67   ← Check in drawer
```

[*1] Money declaration:
Count how much cash is in the drawer and input this amount (up to 8-digits).
The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.
Note that if money declaration is required by programming (page 47), you cannot skip this procedure.

To print the group read report

This report shows group totals.

OPERATION **REPORT**

X mode

Mode Switch

[6] [CA/AMT =/TEND]

```
X     06-15-2002 17:15      ← Read mode/date/time
CLERK 01          000252    ← Clerk/consecutive No.

0006 GROUP      X           ← Report code/report title/read symbol
01........  QT      16      ← Group 01/No. of items
   0.24%          $54.50    ← Sales ratio/group 01 amount
02........  QT      25
   0.09%          $21.33
03........  QT     132
   0.12%          $90.78
..........  QT       6      ← Total of non-group link PLUs
   0.02%           $4.50
------------------------
TOTAL       QT     156      ← Total No. of items
   0.47%          $332.67   ← Total amount
```

Issue this report before the daily sales reset report, otherwise the group totals are all reset.

To print the PLU/subdepartment read/reset report

This report shows sales for PLUs/subdepartments.

OPERATION

Read: X mode
Reset: Z mode
Mode Switch

REPORT

```
Z     06-15-2002 17:25
CLERK 01            000254

0001 PLU          Z 0001

PLU0001         QT      16
    0.24%            $54.50
PLU0002         QT      25
    0.09%            $21.33
PLU0003         QT     132
    0.12%            $90.78
PLU0400         QT       6
    0.02%             $4.50
------------------------
TOTAL           QT     156
     100%       $21960.90
```

Reset mode/date/time
Clerk/consecutive No.
Report code/report title/reset symbol/reset counter
PLU001/No. of items
Sales ratio/PLU001 amount
Total No. of items
Total amount

To print the hourly sales read/reset report

This report shows hourly breakdowns of sales.

OPERATION

Read: X mode
Reset: Z mode
Mode Switch

REPORT

```
Z     06-15-2002 17:30
CLERK 01            000255

0002 HOURLY       Z 0001

00:00-01:00     No       6
                      $4.50
01:00-02:00     No      25
                     $21.33
02:00-03:00     No     132
                     $90.78
23:00-24:00     No       1
                      $1.50
------------------------
TOTAL           No      56
                   $1338.40
```

Reset mode/date/time
Clerk/consecutive No.
Report code/report title/reset symbol/reset counter
Time range/No. of customers
Sales amount
Total No. of customers
Total amount

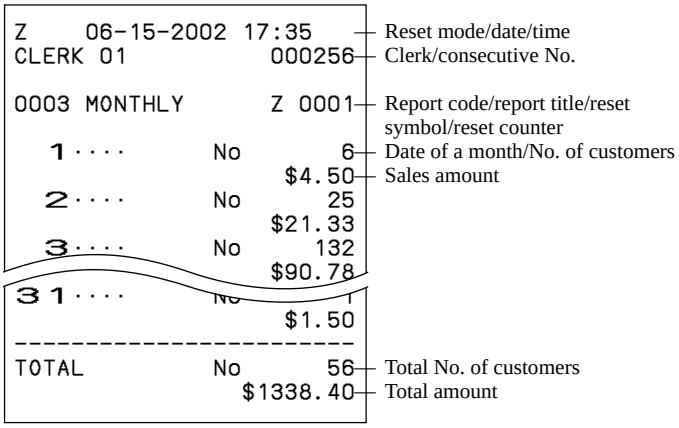
To print the monthly sales read/reset report

This report shows monthly breakdowns of sales.

OPERATION

Read: **X mode**
Reset: **Z mode**
Mode Switch

REPORT



To print the daily sales read/reset report

This report shows sales except for PLUs.

OPERATION **REPORT**

Read: X mode
Reset: Z mode
Mode Switch

Money declaration *1
(Cash in drawer amount [#/NS] or [#])

[CA/AMT =/TEND]

```
Z    06-15-2002 17:20      Reset mode/date/time
CLERK 01          000258   Clerk/consecutive No.

0000 DAILY        Z 0001   Report code/report title/reset symbol/
                           reset counter *5
DEPT01        QT     1015  Department descriptor/No. of items *2
   47.07%      $10339.50   Sales ratio/department amount *2
DEPT02        QT       19
   31.87%       $7000.70
DEPT03        QT       31
   18.84%       $4139.10
DEPT04        QT       23
    1.51%        $332.67
NON-LINK DPT  QT       10  Non-link department No. of items
    0.43%         $94.90   Non-link department amount
------------------------
GROSS TOTAL   QT     1253  Gross No. of items
               $21960.90   Gross sales amount
NET TOTAL     No      545  No. of customers
               $30217.63   Net sales amount
CASH-INDW      $29903.06   Cash in drawer amount (b)

#              $29903.06   Declared amount (a)
                  $0.00    Difference (b) - (a)
CHARGE-INDW      $183.60   Charge in drawer amount
CHECK-INDW       $197.17   Check in drawer amount
CE-CASH 1         ¥7,000   Currency exchange cash in drawer
CE-CHECK 1        ¥4,000   Currency exchange check in drawer
TAX-AMT 1        $732.56   Taxable amount 1 *3
```

```
TAX 1             $43.96   Tax amount 1 *3
TAX-AMT 2        $409.72   Taxable amount 2 *3
TAX 2             $21.55   Tax amount 2 *3
TAX-AMT 3        $272.50   Taxable amount 3 *3
TAX 3              $8.18   Tax amount 3 *3
TAX-AMT 4          $5.50   Taxable amount 4 (Canada only) *3
TAX 4              $0.06   Tax amount 4 (Canada only) *3
TAX               $73.75   Tax total *4
CANCEL TTL    No       2   Cancellation count
                 $108.52   Cancellation amount
RF-MODE TTL   No       2   Refund mode operation count *4
                   $3.74   Refund mode operation amount *4
CALCULATOR    No      10   CAL mode operation count
------------------------
CASH          No      81   Cash sales count
                 $836.86   Cash sales amount
CHARGE        No      10   Charge sales count
                 $197.17   Charge sales amount
CHECK         No       9   Check sales count
                 $183.60   Check sales amount
RC            No       2   Received on Account count
                  $78.00   Received on Account amount
PD            No       1   Paid out count
                   $6.80   Paid out amount
-             No       8   Subtraction count
                   $3.00   Subtraction amount
%-            No      10   Discount count
                   $4.62   Discount amount
%+            No       1   Premium count
                   $1.00   Premium amount
REFUND        No       7   Refund key count *4
                  $27.79   Refund key amount *4
ERR CORR      No      10   Error correction count
                  $12.76   Error correction amount
#/NS          No       5   No sale count
------------------------
CLERK 01      No      12   Clerk 1/clerk 1 sales count
                 $127.63   Clerk 1 sales amount
********
CLERK 02      No       6   Training clerk
                  $27.63
********
CLERK 03      No      24
------------------------
GRND TTL  $000035 1217.63  Non-resettable grand-sales total *4
      000001---》000253    Consecutive No. range of the day *4
```

*1 Money declaration:
Count how much cash is in the drawer and input this amount (up to 8-digits).
The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.
Note that if money declaration is required by programming (page 47), you cannot skip this procedure.

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

*3 Taxable amount and tax amount are printed only if the corresponding tax table is programmed.

*4 These items can be skipped by programming.

5 The "" symbol is printed on the reset report, if memory overflow occurred in the totalizer.

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

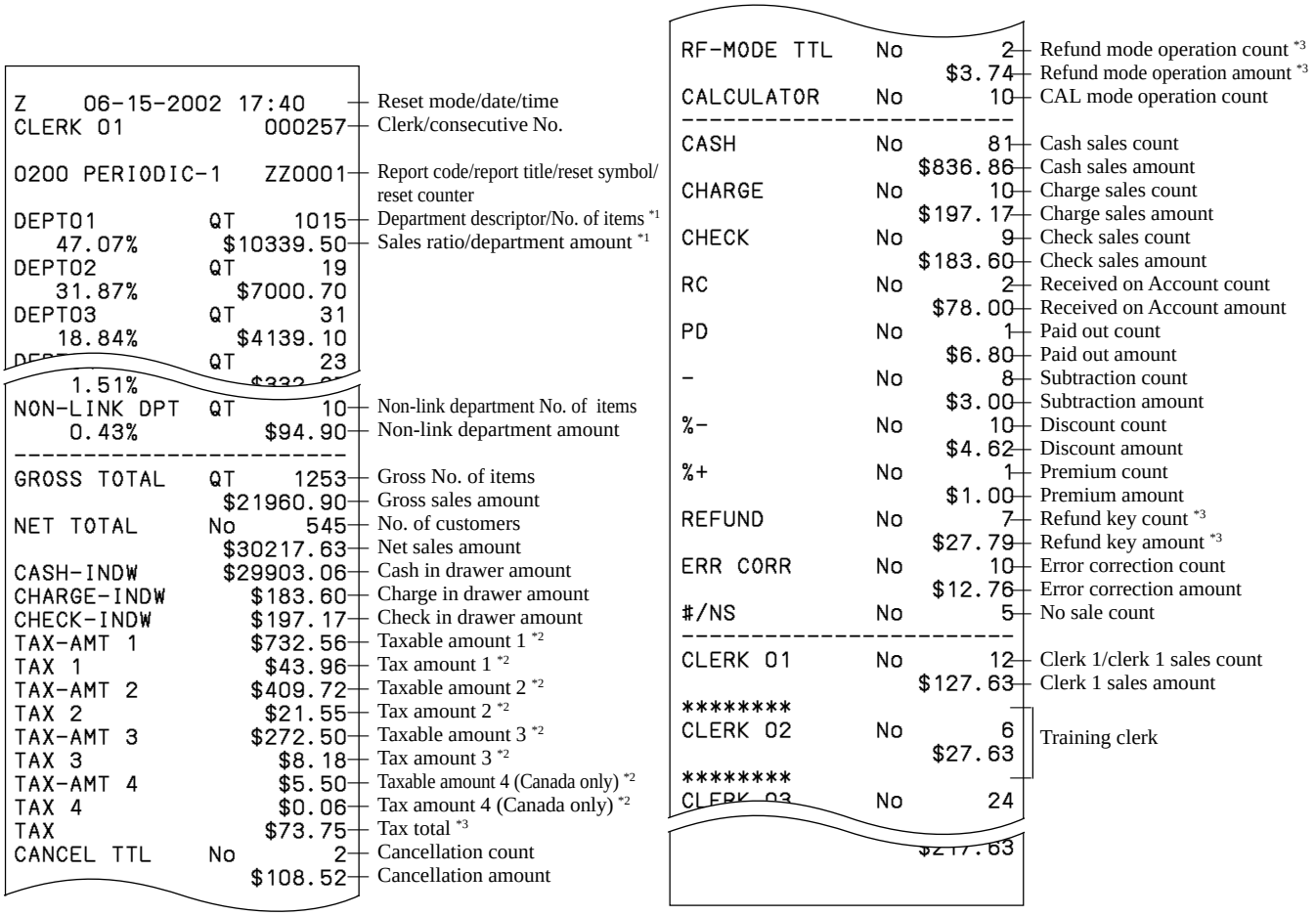
These reports show sales breakdowns of sales by any two kinds of period you want.

OPERATION **REPORT**

Read: X mode
Reset: Z mode
Mode Switch

1 0 0 (Periodic-1 Read)
3 0 0 (Periodic-2 Read)
2 0 0 (Periodic-1 Reset)
4 0 0 (Periodic-2 Reset)

CA/AMT = /TEND



*1 Zero totalled departments (the amount and item numbers are both zero) are not printed.
*2 Taxable amount and tax amount are printed only if the corresponding tax table is programmed.
*3 These items can be skipped by programming.

Reading the cash register's program

To print unit price/rate program (except PLU)

OPERATION

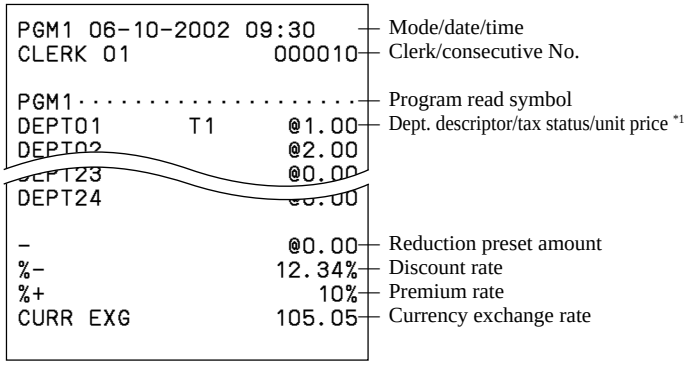
PGM mode

Mode Switch

1 SUB TOTAL

SUB TOTAL

REPORT



*1 Departments without being programmed are not printed on this report.

To print the PLU program

OPERATION

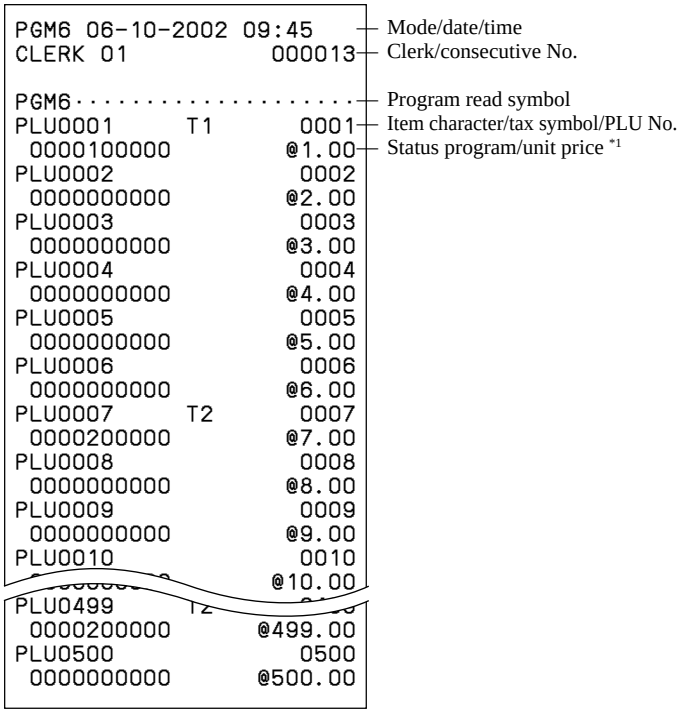
PGM mode

Mode Switch

6 SUB TOTAL

SUB TOTAL

REPORT



*1 PLU without being programmed are not printed on this report.

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

OPERATION

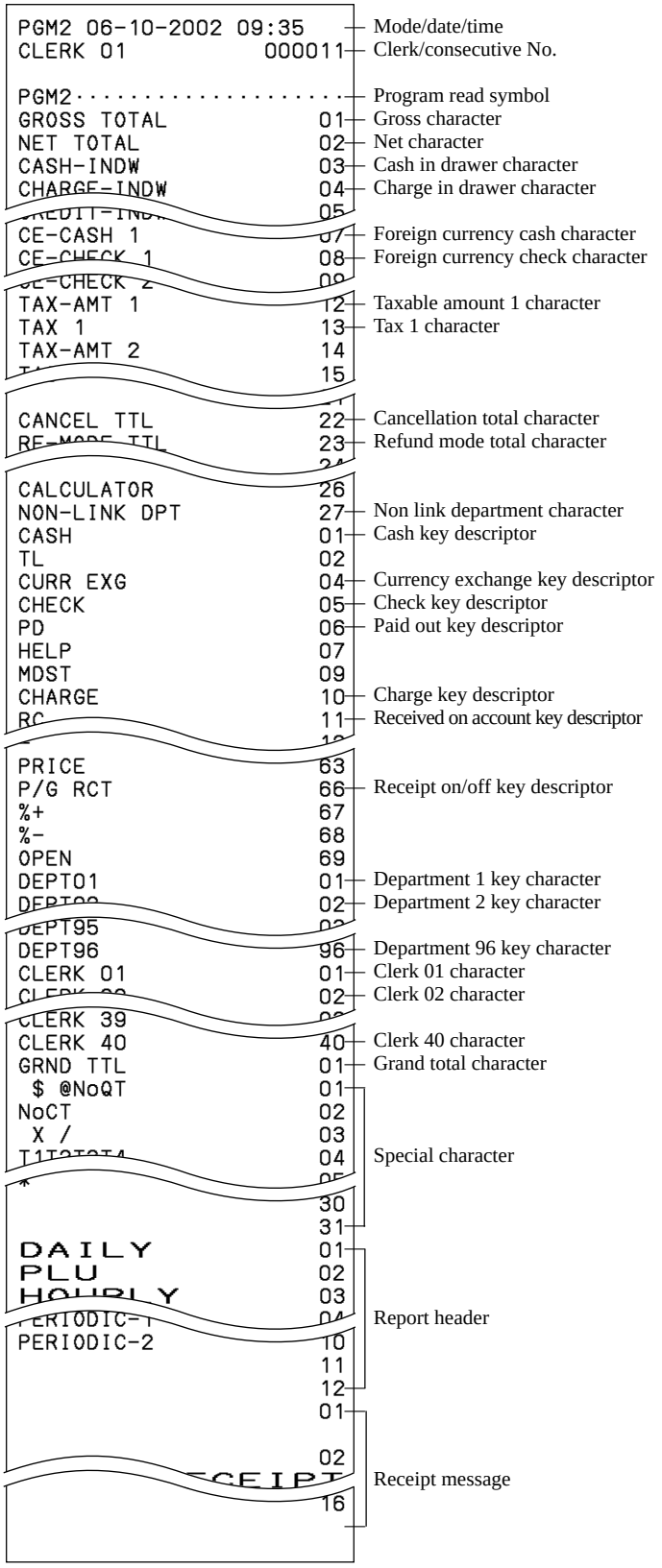
PGM mode

Mode Switch

2 SUB TOTAL

SUB TOTAL

REPORT



To print the print control, compulsory clerk program (except PLU)

OPERATION

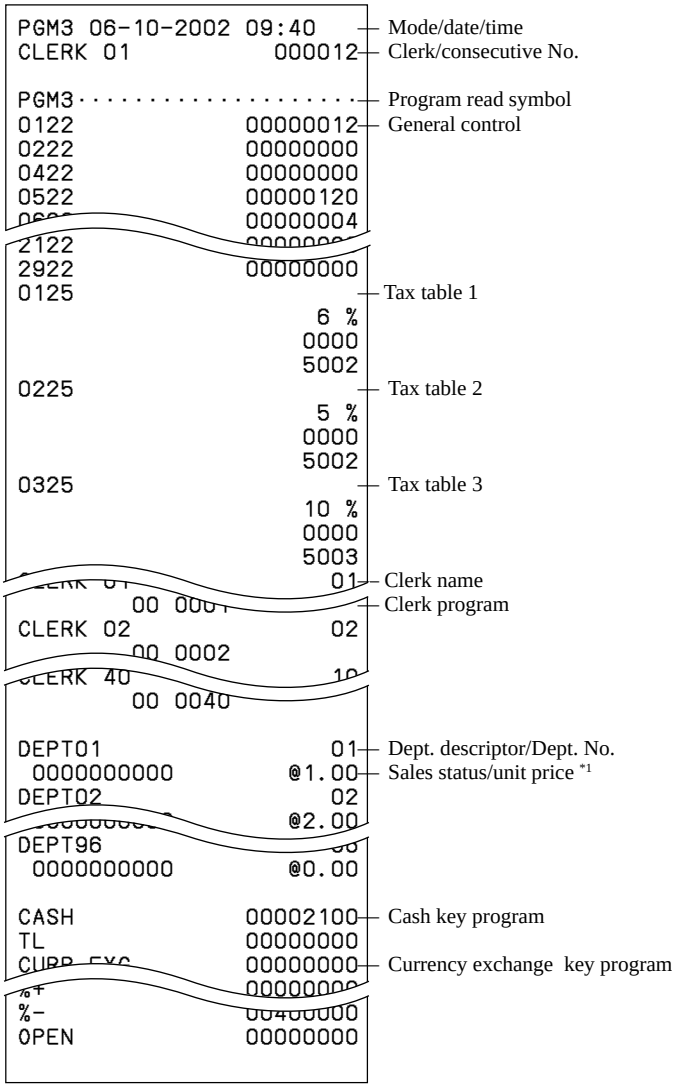
PGM mode

Mode Switch

3 SUB TOTAL

SUB TOTAL

REPORT



*1 Departments without being programmed are not printed on this report.

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

When an error occurs

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

Does the display show an error code?

No ⇩

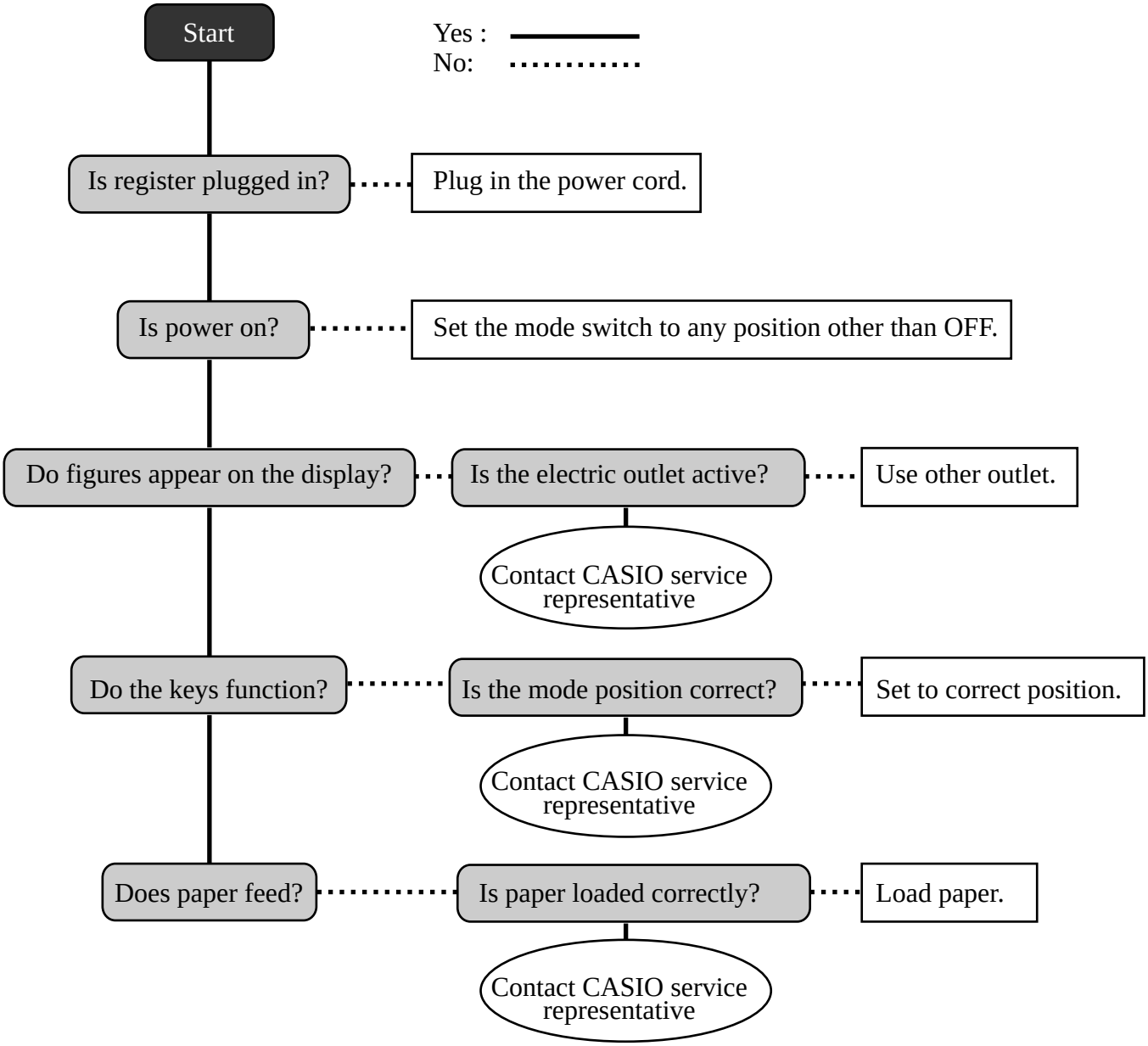
Yes ⬇

Error code (Message)	Meaning	Action
E01 (ERR-MODE)	Mode switch position changed before finalization.	Return the mode switch to its original setting and finalize the operation.
E08 (SIGN-ON)	Registration without entering a clerk number.	Enter a clerk number.
E10 (PRNT-LID)	Platen arm of the printer is opened.	Close the platen arm.
E11 (DRW-OPEN)	Registration is made while the cash drawer is opened.	Close the cash drawer.
E12 (JPAP-END)	Journal paper end	Replace the new paper roll.
E14 (RPAP-END)	Receipt paper end	Replace the new paper roll.
E27 (BUF-FULL)	Transaction cancel buffer full.	Finalize the transaction.
E31 (PRESS-ST)	Finalization of a transaction attempted without confirming the subtotal.	Press the SUB TOTAL key.
E33 (TEND-AMT)	Finalize operation attempted without entering amount tender.	Enter the amount tendered.
E35 (CNG-OVER)	Change amount exceeds preset limit.	Input amount tendered again.
E38 (DECL-AMT)	Read/reset operation without declaring cash in drawer. This error appears only when this function is activated.	Perform money declaration.

Press C/AC key and check the appropriate section of this manual for the operation you want to perform.

When the register does not operate at all

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



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.

Important!

Once receipt/journal printing or printing of a report starts, it can be stopped only by interruption of power to the cash register.

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.

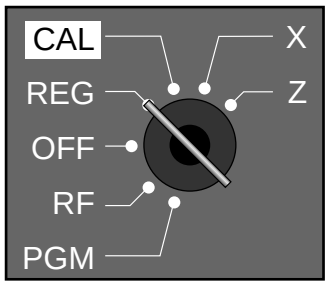
To clear this sign, press [C] key.

Important!

Whenever the low battery indicator appears on the display, load a set of three 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.

To replace journal paper



Step 1

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

Step 2

Press FEED to feed about 20 cm of paper.

Step 3

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

Step 4

Remove the journal take-up reel from its holder.

Step 5

Remove the paper guide from the take-up reel.

Step 6

Slide the printed journal from the take-up reel.

Step 7

Open the platen arm.

Step 8

Remove the old paper roll from the cash register.

Step 9

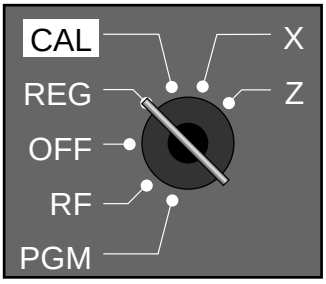
Load new paper.

Go to the step 3 described on page 10 of this manual.

To replace receipt paper

Step 1

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



Step 2

Open the platen arm.

Step 3

Remove the old paper roll from the cash register.

Step 4

Load new paper.

Go to the step 3 described on page 9 of this manual.

NOTE:

After completion of register programming, enter 6 2 0 0 and SUB TOTAL in the PGM 3 mode (PGM mode ⇒ 3 SUB TOTAL) to backup the program data into the internal non-volatile memory.
(This opration takes about 10 seconds.)

Options

WT-82 wetproof cover

The optional wetproof cover protects the keyboard from moisture damage.

Consult your CASIO dealer for details.

Specifications

Input method
Entry: 10-key system; Buffer memory 8 keys (2-key roll over)
Department: Full key system

Display Amount 8 digits (Zero suppression) ; No. of repeats, Receipt On/Off
Character 8 digits; Item descriptor, Key descriptor, Mode

Printer
Printer: Dot matrix thermal printer (Receipt and journal printing)
24 digits (Amount 10 digits/descriptor 8, 12 or 24 digits)
Journal: Automatic take up roll winding
Print speed: Max. 14 lines/sec.
Feed speed: Max. 14 lines/sec.
Paper roll: 58 mm × 80 mm Ø (Max.)
CASIO P-5880T

Calculations Entry 8 digits; Registration 7 digits; Total 8 digits

Chronological data
Date print: Automatic date printout on receipt or journal
Automatic calendar
Time print: Automatic time printout on receipt or journal
Time display: 24-hour system

Alarm Entry confirmation signal; Error alarm

Totalizers

Category	No. of Totalizers	Contents				Periodic Totalizer
		Amount (10 digits)	No. of items (4 digits)	Count (4 digits)	No. of customers (4 digits)	
Department	96*3/24*4	✔	✔ *1			✔
PLU	1600*3/800*4	✔	✔ *1			
Hourly sales	24	✔			✔	
Monthly	31	✔			✔	
Clerk	40*3/15*4	✔			✔	
Transaction	30	✔ or	✔ or	✔ or	✔	✔
Non resettable grand sales total	1	✔ *2				
Reset counter	6			✔		✔
Consecutive No.	1			✔		

*1: 4 digit integer + 2 digit decimal, *2: 12 digits, *3: for the U.S., *4: for Canada

Memory protection batteries The effective service life of the memory protection batteries (three new SUM-3 or UM-3 type batteries) is approximately one year from installation into the machine.

Power supply/ Power consumption As noted on the plate affixed to right side of register.

Operating temperature 0°C ~ 40°C

Humidity 10 ~ 90%

Dimensions and Weight 291mm (H) × 410mm (W) × 474mm (D) / 11.2kg ..... with medium size drawer

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

Index

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 data 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:.....

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