SHARP®

ELECTRONIC CASH REGISTER

ER-A410 ER-A420

INSTRUCTION MANUAL



The above illustration shows the model ER-A410.



CAUTION

The AC outlet shall be installed near the equipment and shall be easily accessible.

INTRODUCTION

Thank you very much for your purchase of the SHARP Electronic Cash Register, Model ER-A410/A420. Please read this manual carefully before operating your machine to gain a thorough understanding of the functions and features offered by this model ECR.

Please keep this manual for future reference, it may help you if you encounter operational problems.

IMPORTANT

- Install your register in a location that is not subject to direct radiation, unusual temperature changes, high humidity or exposed to water sources.
- Installation in such locations could cause damage to the cabinet and the electrical components.
- The register should not be operated by an individual with wet hands.
 The water could seep into the interior of the register and cause component failure.
- When cleaning your register, use a dry, soft cloth. Never use solvents, such as benzine and/or thinner. The use of such chemicals will lead to discoloration or deterioration of the cabinet.
- The register plugs into any standard wall outlet (local voltage ±10% AC) which utilizes a dedicated ground circuit.
- Please note that other electrical devices on the same electrical circuit could cause the register to malfunction.
- If the register malfunctions, call your local dealer for service do not try to repair the register yourself.
- For a complete electrical disconnection, the AC power cord must be removed from the wall outlet.
- Never disconnect the peripheral while the register remains plugged into the AC outlet.

PRECAUTION

This Electronic Cash Register has a built-in memory protection circuit which is supported by rechargeable batteries.

It is important to know that all batteries will, in time, dissipate their charge even if not used. Therefore to insure an adequate charge in the protection circuit, and to prevent any possible loss of memory during or after installation, it is recommended that each unit be allowed to recharge for a period of 24 to 48 hours prior to and during use by the customer.

In order to charge the batteries, the machine must be plugged in. This recharging precaution can prevent unnecessary equipment malfunctions or service calls.

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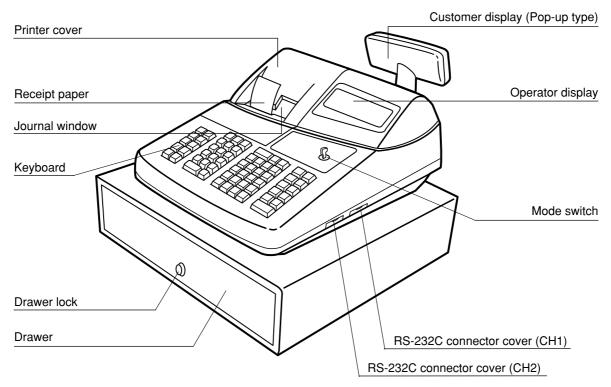
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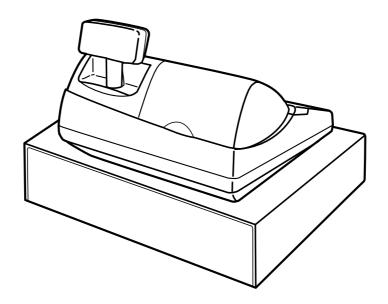
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EXTERNAL VIEW OF THE ER-A410

■ Front view

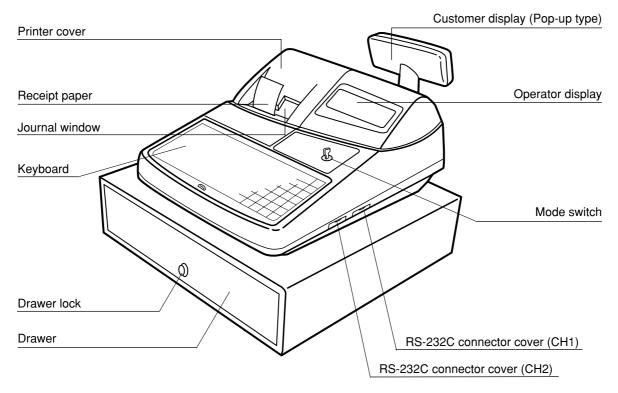


■ Rear view

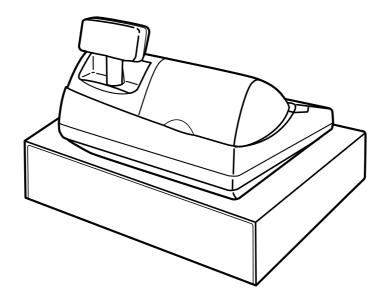


EXTERNAL VIEW OF THE ER-A420

Front view



■ Rear view



PRINTER

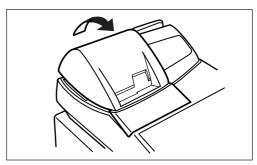
The printer is a receipt/journal dual station type thermal printer, that does not require an ink ribbon or cartridge. The average life of the printer is approximately 5 million lines.

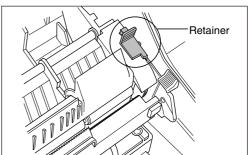
When removing the printer cover, lift it from the rear as shown.

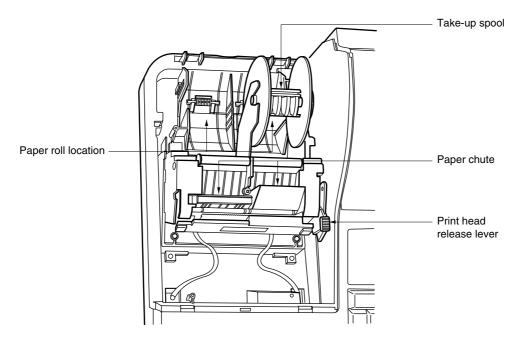
When installing the printer cover, hook it on the pawls on the cabinet and shut it.

Caution: The paper cutter is mounted on the printer (receipt side). Be careful not to cut yourself.

Your register is shipped with the print head release lever held in the lifted up position by a white retainer. Be sure to remove this retainer (see the figure at the right) and push down the print head release lever before you use the register.







Print head release lever

The print head can be lifted by the green lever on the right side of the printer. Pulling the lever forward, lifts the print head up. If the paper becomes jammed and you need to move the print head farther forward, you can pull the lever even further toward you and proceed with the removal of the jammed paper.

Note

Do not attempt to remove the paper roll with the head in the down position. This may result in damage to the printer and print head.

KEYBOARD

1 ER-A410 standard keyboard layout

		TAX	SHIFT	CONV
RECEIPT	JOURNAL	@/FOR	•	CL
SLIP	RA	7	8	9
RCPT	РО	4	5	6
	%	1	2	3
VOID	RFND	(00	

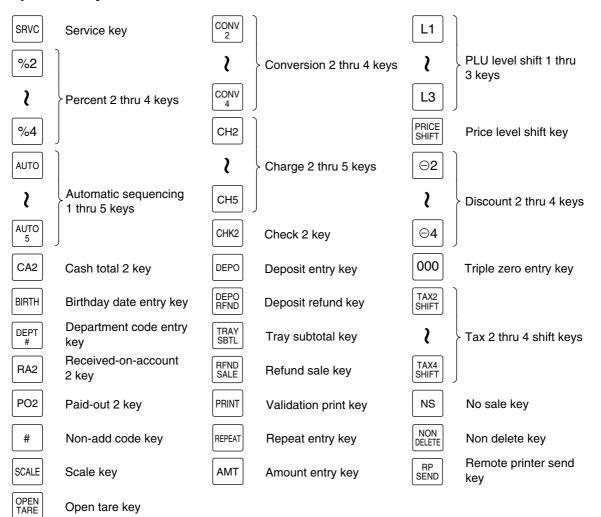
PLU/	UPC	PRICE CHANGE	INQ
5	10	15	20
4	9	14	19
3	8	13	18
2	7	12	17
1	6	11	16

NC	CASH #
PBLU	FS SHIFT
FINAL	FS TEND
СНК	СН
MDSE SBTL	SBTL
CA/A	T/NS

All the keys but the receipt paper feed and journal paper feed keys can be re-positioned. If you want to change the layout, please consult your dealer.

^	Receipt paper feed key	INQ	PLU/UPC inquiry key	VOID	Void key
RECEIPT	neceipi papei leed key	IIVQ	PLO/OPC inquiry key	VOID	volu key
JOURNAL	Journal paper feed key	PRICE CHANGE	UPC price change key	RFND	Refund key
0		CASH #	Cashier code entry key	RA	Received-on-account 1 key
?	Numaria kaya		Discount 1 key	РО	Paid-out 1 key
9	> Numeric keys	%	Percent 1 key	MDSE SBTL	Merchandise subtotal key
00		TAX	Tax key	RCPT	Receipt print key
•	Decimal point key	TAX SHIFT	Tax 1 shift key	NC	New charge account balance key
@/FOR	Multiplication key	FS SHIFT	Food stamp shift key	PBLU	Previous balance key
CL	Clear key	FS TEND	Food stamp tendered key	FINAL	Final key
1		СНК	Check 1 key	CONV	Conversion 1 key (for currency conversion)
ì	Department keys	СН	Charge 1 key	SLIP	Slip print key
20		SBTL	Subtotal key		
PLU/UI	PC PLU/UPC key	CA/AT/N	Cash/Amount tendered and No-sale key	I	

Optional keys



Attention

• The Mains is a double-function key ([Cash/Amount tendered function] and [No Sale function]).

Press the Mains key replaces the Main and Ns key in the following descriptions for operations.

Note

The department and direct PLU keys can be expanded, if you require expansion of the department or direct PLU keys, please contact your dealer.

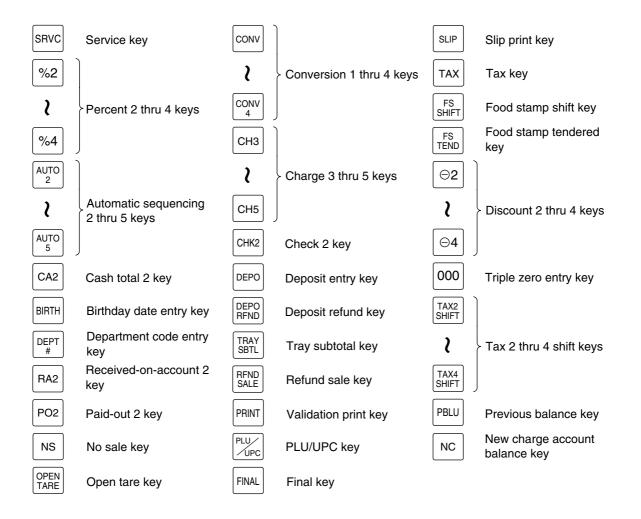
2 ER-A420 standard keyboard layout

RECEIPT	JOURNAL	73	74	75	76	77	78	79	80	81	82	L1	L2	Lз	AUTO	CASH #
61	62	63	64	65	66	67	68	69	70	71	72	PRICE SHIFT	RCPT	RP SEND	РО	RA
49	50	51	52	53	54	55	56	57	58	59	60	@/FOR		CL	%	
37	38	39	40	41	42	43	44	45	46	47	48	7	8	9	RFND	VOID
25	26	27	28	29	30	31	32	33	34	35	36	4	5	6	CH2	TAX SHIFT
13	14	15	16	17	18	19	20	21	22	23	24	1	2	3	CH1	СНК
1	2	3	4	5	6	7	8	9	10	11	12	0	00	MDSE SBTL	SBTL	CA/AT

All the keys but the receipt paper feed and journal paper feed keys can be re-positioned. Note If you want to change the keyboard layout, please consult your dealer.

RECEIPT	Receipt paper feed key	SBTL	Subtotal key	VOID	Void key
JOURNAL	Journal paper feed key	MDSE SBTL	Merchandise subtotal key	RFND	Refund key
0		CASH #	Cashier code entry key	RA	Received-on-account 1 key
?		\bigcirc	Discount 1 key	РО	Paid-out 1 key
9	Numeric keys	RCPT	Receipt print key	PRICE SHIFT	Price level shift key
00		%	Percent 1 key	AUTO	Automatic sequencing 1 key
•	Decimal point key	L1		1	
@/FOR	Multiplication key	?	PLU level shift 1 thru 3 keys	?	Direct price lookup keys
CL	Clear key	L3		82	
RP SEND	Remote printer send key	CH1	Charge 1 and 2 keys		
TAX SHIFT	Tax 1 shift key	CH2	Charge 1 and 2 keys		
CA/AT	Cash/Amount tendered key	СНК	Check 1 key		
Ontion	al kove				

Optio	nai keys				
#	Non-add code key	AMT	Amount entry key	REPEAT	Repeat entry key
SCALE	Scale key	INQ	PLU/UPC inquiry key	PRICE CHANGE	UPC price change key
NON	Non delete kev				

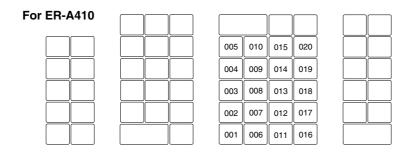


Note

The department and direct PLU keys can be expanded, if you require expansion of the department or direct PLU keys, please contact your dealer.

3 Standard key number layout

These key numbers are used for positioning of department keys and direct PLU keys. Refer to pages 93 and 107. This layout can be changed by your dealer.

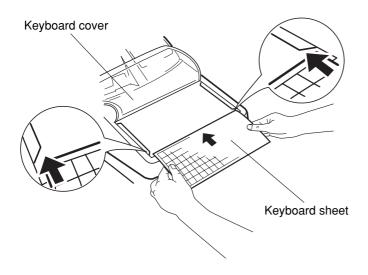


For ER-A420

		093	094	095	096	097	098	099	100	101	102			
081	082	083	084	085	086	087	088	089	090	091	092			
069	070	071	072	073	074	075	076	077	078	079	080			
057	058	059	060	061	062	063	064	065	066	067	068			
045	046	047	048	049	050	051	052	053	054	055	056			
033	034	035	036	037	038	039	040	041	042	043	044			
021	022	023	024	025	026	027	028	029	030	031	032			

4 Installing the keyboard sheet (ER-A420)

Insert the keyboard sheet between the keyboard cover and the cabinet as illustrated below.



- ① Turn over the keyboard cover.
- ② Insert the keyboard sheet into a slit.



3 Close the keyboard cover.

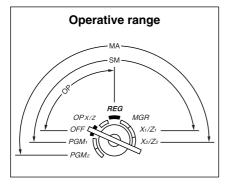
Note

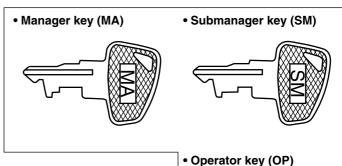
- Do not spread the keyboard cover too far as it might tear the tabs.
- Replace the keyboard sheet with a new one if by chance it gets wet. Use of a wet keyboard sheet may cause problems.
- Be sure to use only SHARP-supplied keyboard sheets. Thick or hard sheets can make key
 operations difficult.
- Place the keyboard sheet evenly under the keyboard cover.
- If you require a new keyboard sheet, please contact your dealer.
- The keyboard cover will eventually wear out. If your keyboard cover is dirty or broken, replace the cover with a new one. For details, contact your authorized SHARP dealer.

KEYS AND SWITCHES

1 Mode switch and mode keys

The mode switch can be operated by inserting one of the three supplied mode keys – manager (MA), submanager (SM), and operator (OP) keys. These keys can be inserted or removed only when the switch is in the "REG" or "OFF" position.





The mode switch has these settings:

OFF: This mode locks all register operation. No change occurs to register data.

OP X/Z: This setting allows cashiers to take X or Z reports for their sales information. It can also be used for displaying the date/time and

printing the employee's arrival/departure times. And it can be used to toggle receipt state "ON" and "OFF" by pressing the receipt key. (This setting may be used only when your register has been programmed for "OP X/Z mode available" in the PGM2 mode.)

REG: For entering sales

PGM1: To program those items that need to be changed often: e.g., unit prices of departments, PLUs or UPCs, and percentages.

PGM2: To program all PGM1 programs and those items that do not require frequent changes: e.g., date, time, or a variety of register functions.

MGR: For manager's and submanager's entries

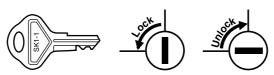
The manager can use this mode to make entries that are not permitted to be made by cashiers – for example, after-transaction voiding and override entries.

X1/Z1: To take the X/Z report for various daily totals.

X2/Z2: To take the X/Z report for various periodic (weekly or monthly) consolidation of totals.

2 Drawer lock key

This key locks and unlocks the drawer. To lock it, turn 90 degrees counterclockwise. To unlock it, turn 90 degrees clockwise.

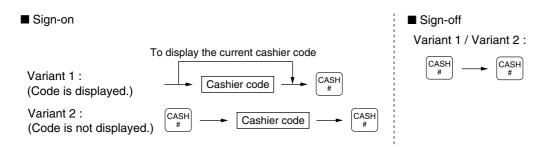


3 Cashier code entry key

Cashier codes are available in two variants: Variant 1, in which they are displayed ("0000" to "9999"), and Variant 2, in which they are not displayed (always "****").

When the cashier code is assigned by the following procedure, the register prints the four-digit cashier code (variant 2: "****") and the cashier name both on the receipt and journal for every transaction.

Procedure



Note

All of these settings depend on how the register has been programmed. For the selection of these settings, consult your local dealer.

4 Receipt ON/OFF function

You can disable receipt printing in the REG mode to save paper using the receipt function. To disable receipt printing, press the receipt printing, press the receipt printing status ON and OFF. To check the receipt printing status, turn the mode switch to the OP X/Z position or press the CL key in the REG mode. When the function is in the OFF status, the receipt off indicator "_" illuminates.

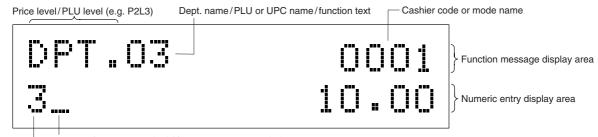
Note

Your register will print reports regardless of the receipt status. This means that the receipt roll must be installed even when the receipt state is "OFF" when taking reports.

DISPLAYS

1 Operator display

The operator display consists of a two-line dot-matrix display (16 characters/line).



Receipt OFF indicator ("_")/Stock alarm indicator ("_")

Repeat/Sentinel mark/Power save mark

Cashier code or mode name

The mode you are in is displayed. When a cashier is assigned, the cashier code is displayed in the REG or OP X/Z mode. For example, "0001" is displayed when cashier 0001 is assigned.

Repeat

The number of repeats is displayed, starting at "2" and incremental with each repeat. When you have registered ten times, the display will show "0". $(2 \rightarrow 3 \dots 9 \rightarrow 1 \rightarrow 2\dots)$

Sentinel mark

When amounts in the drawer reaches the amount you preprogrammed, the sentinel mark "X" is displayed to advice you to remove the money to a safe place.

• Power save mark

When the cash register goes into the power save mode, the power save mark (decimal point) is displayed.

Stock alarm indicator

When the stock of the PLU or UPC which you entered is zero or negative, the alarm indicator (decimal point) is displayed.

• Function message display area

• Numeric entry display area

Numbers entered using numeric keys are displayed here.

Date and time display

Date and time appear on the display in the OP X/Z, REG, or MGR mode. In the REG or MGR mode, press the # key to display the date and time.

Error messages

When an error occurs, the corresponding error message is displayed in the function message display area. For the details of error messages, please refer to the "Error message table" on page 184.

2 Customer display (Pop-up type)



(• : Appears right below the seventh place when the item amount is displayed at scale entry.)

FOR THE OPERATOR

PRIOR TO ENTRIES

1 Preparations for entries

Before registrations, insert the operator key into the mode switch and turn it to the REG position and check the following items:

■ Receipt and journal paper rolls

If the receipt and journal paper rolls are not set in the machine or there are low rolls, install new ones according to section "4. Installing and removing the paper rolls" under "OPERATOR MAINTENANCE."

■ Receipt ON/OFF function

You can disable receipt printing in the REG mode to save paper using the receipt function. To disable receipt printing, press the printing, press the printing status on the OP X/Z position. This key toggles the receipt printing status on and OFF. To check the receipt printing status, turn the mode switch to the OP X/Z position or press the CL key in the REG mode. When the function is in the OFF status, the receipt off indicator "" illuminates.

Note

Your register will print reports regardless of the receipt state. This means that the receipt roll must be installed even when the receipt state is "OFF" when taking reports.

Cashier assignment

Prior to any item entries, cashiers must enter their cashier code into the register. The code entry may not be necessary when the same cashier code is used in the next transaction.

Cashier codes are available in two variants: Variant 1, in which they are displayed ("0000" to "9999"), and Variant 2, in which they are not displayed (always "****").

When the cashier code is assigned by the following procedure, the register prints the four-digit cashier code (variant 2: "****") and the cashier name both on the receipt and journal for every transaction.

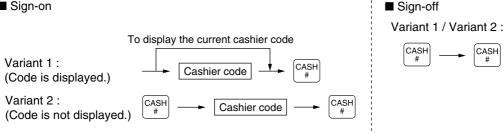
Note

The operation entries depend on how the register has been programmed. To determine which selections should be considered, please consult your local dealer.



Procedure

■ Sign-on



- If you want to enter a cashier code before every transaction, please consult your dealer.
- For the display type selection of the cashier code, "Variant 1" has been preset. For the selection of the "Variant 2", consult your dealer.
- The cashier can be changed during a transaction. Please consult our dealer.

Power saving mode

The register will enter into the power saving mode when no entries are performed based on the pre-programmed time limit (by default, 30 minutes).

When the register goes to the power save mode, all display lights will turn off. This will be indicated by a decimal point at the left most position of the lower line. The register will return to normal operation mode when any key is pressed or a mode is changed with the mode key. Please note when the register is recovered by any key entry and the initial key entry is ignored. After the recovery, you may start the key entries from the beginning.

Error warning

In the following examples, your register will go into an error state accompanied with a warning beep and a corresponding error message. Clear the error state by pressing the [cL] key and take proper action. Please refer to the error message table on page 184.

- When you enter an over 32-digit number (entry limit overflow): Cancel the entry and re-enter a valid number.
- When you make an error in key operation: Clear the error and continue entries.
- · When you make an entry beyond a programmed amount entry limit: Check to see if the entered amount is correct. If it is correct, it be possible to make the entry in the MGR mode. Contact your manager.
- When an including-tax subtotal exceeds eight digits: Clear the subtotal by pressing the cl key and press the CHAT, CA2, CHK, CHK2, or CH thru CH5 key to finalize the transaction.

ENTRIES

Item entries

■ Single item entries

Procedure

Department entries (direct department entries)

Enter a unit price and press a department key. If you use a programmed unit price, press a department key only.

When using a programmed unit price

Unit price *

(max. 7 digits)

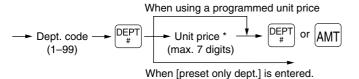
Department key

*Less than the programmed upper limit amounts

Note

When those departments for which the unit price has been programmed as zero (0) are entered, only the sales quantity is added.

Department entries (indirect department entries)



*Less than the programmed upper limit amounts

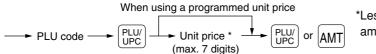
PLU entries (indirect PLU entries)

Enter a PLU code and press the PLU key.

Note

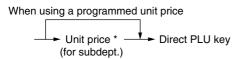
When those PLU's for which the unit price has been programmed as zero (0) are entered, only the sales quantity is added.

Subdepartment (open PLU, open and preset PLU) entries

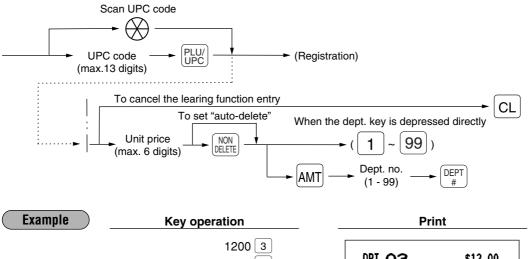


*Less than the programmed upper limit amounts

PLU entries (direct PLU entries)



UPC entries



1200 3

8 DEPT
5 DEPT 680 DEPT
2 PLU
11 PLU 1200 PLU
8
5012345678900 PLU
(CAAT

DPT. O3 DPT. O5 DPT. O5 DPT. O5 PLU00002 PLU00011 PLU00008 501234567 APPLE	\$12.00 \$5.00 \$2.00 \$6.80 \$1.50 \$12.00 \$3.50 78900#
CASH	\$45. 30

■ Repeat entries

You can use this function for entering a sale of two or more same items.

You can use the [FEM] key to repeat entry instead of department, [AMT], direct PLU or [FEM] key.

_	_	
F		_
Exar	nnu	2

Key operation

Repeated department entry (direct)	200 8 8 8
Repeated department entry (indirect)	5 DEPT 680 DEPT # DEPT #
Repeated PLU entry (indirect) Repeated PLU entry (direct)	10 PLW
Repeated subdepartment entry	60 PLUY UPC FLUY PLUY Plu
Repeated UPC entry	5012345678900 PLW UPC PLW UPC
Repeated department entry (direct) using the repeat key	600 2 REPEAT REPEAT CAIAT

Print

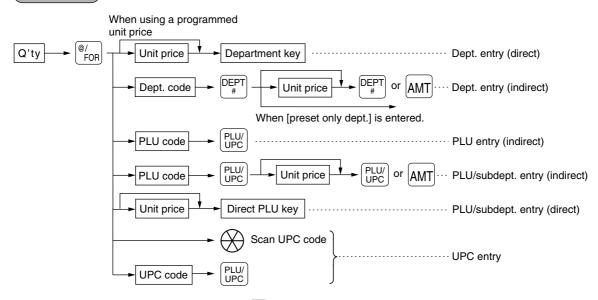
DPT. O8 DPT. O8 DPT. O8 DPT. O5 DPT. O5 PLU00010 PLU00010 PLU00051 PLU00051 PLU00060 PLU00060 5012345678 APPLE 5012345678 APPLE DPT. O2 DPT. O2	\$2.50
DPT.O2	\$6.00
CASH	\$79. 75

■ Multiplication entries

Use this feature when you need to enter two or more same items.

This feature helps when you sell a large quantity of items or need to enter quantities that contain decimals.

Procedure



- After scanning a UPC code or pressing the when the item does not exist in the file, the display will show "NO RECORD". Enter the unit price using the want key and department no. with the we have a scanning to the last of the last of
- Q'ty: Up to four digits integer + three digits decimal
- · Unit price: Less than a programmed upper limit
- \bullet Q'ty \times unit price: Up to seven digits

Example		Key operation	Print
	Department entry (direct) Department entry (indirect) PLU entry (indirect) PLU entry (direct)	7 • 500 ^{e/} _{FOR} 165 8 2 ^{e/} _{FOR} 5 ^{DEFT} 250 ^{DEFT} 113 ^{PLU} 13 ^{PLU} 8 • 250 ^{e/} _{FOR} 3 ^{e/} _{FOR}	7.500 @ \$1.65 DPT. OS \$12.38 2 @ \$2.50 DPT. OS \$5.00 15 @ \$2.10 PLU00013 8.250 @ \$3.00 PLU00058 \$24.75 3 @ \$1.00 PLU00060 \$3.00 5 @ \$2.50
	Subdepartment entry	60 PLW 100 PLW	5012345678900# APPLE \$12.50
	UPC entry	5 (PPR) 5012345678900 (DA) (CA)AT	CASH \$89. 13

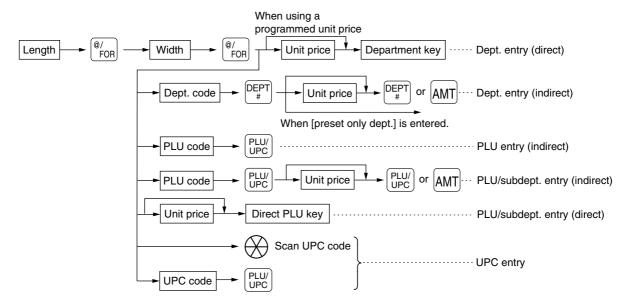
Note

You must use a decimal point () key when entering quantities that are fractional.

Successive multiplication entries

This function may be desired when you enter a sale of items sold by area (square feet).

Procedure



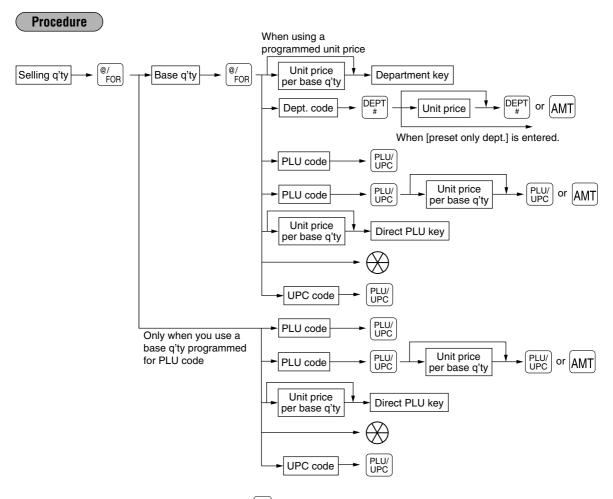
- After scanning a UPC code or pressing the pure key, when the item does not exist in the file, the display will show "NO RECORD". Enter the unit price using the AMT key and department no. with the pure key.
- Length or width: Up to seven digits (4-digit integer + 3-digit decimal)
- · Unit price: Less than a programmed upper limit
- Length × Width × Unit price: Up to seven digits
 - Note
- For actual use of this function, please consult your dealer.
- You must use a decimal point () key when entering quantities that are fractional.

Example Key operation 3 (@/ FOR 4 FOR Department entry 400 5 1 • 500 [@]/_{FOR} PLU entry 2 • 500 FOR 8 PLU/ UPC 1 • 750 ^{@/}FOR 1 • 750 ^{@/}FOR Subdepartment entry 6 PLU/ UPC 600 PLU/ @/ FOR **UPC** entry 5 5099887654302 PLU/ CA/AT



■ Split-pricing entries

You may use this function when your customer wants to purchase items normally sold in bulk.



- After scanning a UPC code or pressing the wey, when the item does not exist in the file, the display will show "NO RECORD". Enter the unit price using the AMT key and department no. with the show.
- Selling quantity: Up to four digits integer + three digits decimal
- Base quantity: Up to two digits (integer)

Example		Key operation		Print		
	Department entry	{ 7 10 600	@/ FOR @/ FOR	DPT. 07	7 @ 10/ \$6.00 \$4.20 8 @ 5/ \$3.00	
	PLU entry	8535	@/ FOR @/ FOR PLU/ UPC	PLU00035 5045678917 CUP-A	\$4.80 5 @ 6/ \$2.50	
	UPC entry	5 6 5045678912304	@/ FOR @/ FOR PLU/ UPC	CASH	\$11.09	
			CA/AT			

You must use the decimal point $(ullet \cdot)$ key when entering selling quantities that are fractional.

Note

■ Single item cash sale (SICS)/single item finalize (SIF) entries

SICS entries

- This function is useful when a sale is for only one item and is for cash; such as a pack of cigarettes. This function is applicable only to those departments that have been set for SICS or to their associated PLUs, subdepartments or UPCs.
- The transaction is finalized and the drawer opens as soon as you press the department key, [PLU] key, the direct PLU key or scanning a UPC code.

Example	Key operation	Pri	nt
	For finishing \longrightarrow 9 the transaction	DPT. 09 CASH	\$2.50 \$2.50

Note

If an entry to a department, PLU/subdepartment or UPC set for SICS follows entries to departments, PLUs/subdepartments or UPC not set for SICS, it does not finalize and results in a normal sale.

SIF entries

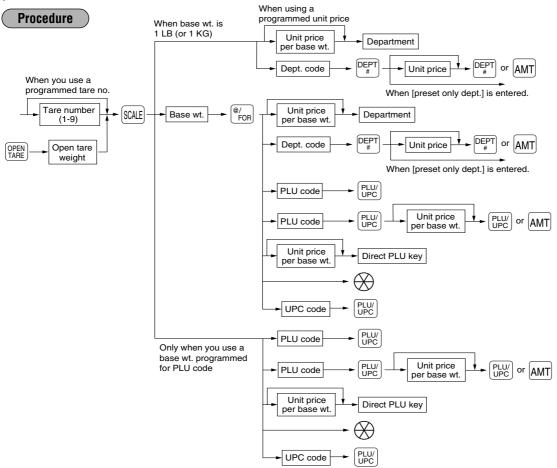
- If an entry to a department, PLU/subdepartment or UPC set for SIF follows entries to departments, PLUs/subdepartments or UPC not set for SIF, the transaction is finalized immediately as a cash sale.
- Like the SICS function, this function is available for single-item cash settlement.

Example	Key operation	P	Print		
	1745 8 1500 For finishing ———————————————————————————————————9	DPT. 08 DPT. 09	\$17. 45 \$15. 00		
	nie nansachon	CASH	\$32. 45		

Scale entries

For making entries for weighed items, a scale must be connected where by the weight is automatically read from the scale. To make refund entries, the weight is entered manually while the scale platter is empty and reads zero.

i) Auto scale entries

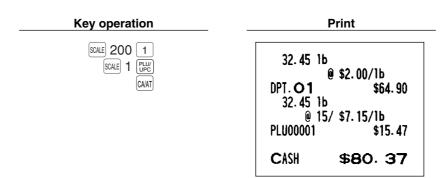


- Open tare weight: Up to 5 digits (integer + decimal)
 Net weight: Up to 5 digits (integer + decimal)
- Base weight: Up to 2 digits (integer)

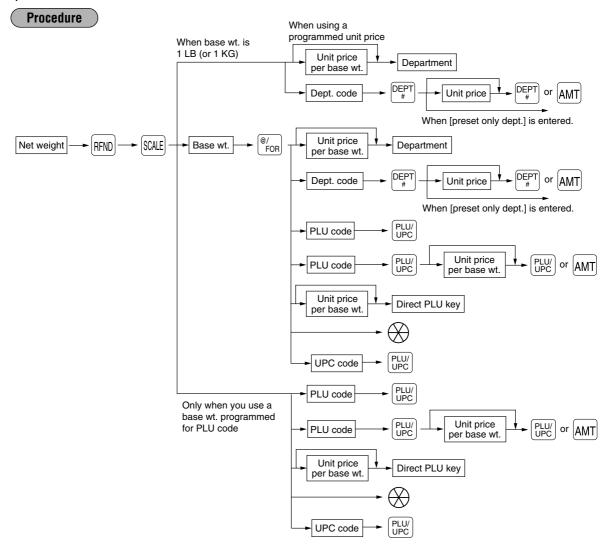
Note

- The register can be programmed with up to nine tare tables and allows different tares to be assigned to them.
- When the scale key is pressed, the weight is automatically read from the connected scale (option) and the net weight appears in the register display.
- When the item is programmed for "Scale compulsory", it is not necessary to press the SCALE key.

Example



ii) Manual scale entries of refunded items



- Net weight: Up to 5 digits (integer + decimal) which is from the customer's receipt.
- Base weight: Up to 2 digits (integer)

Example

Key operation	Print Print			
32 • 45 RFND SCALE 200 1 32 • 45 RFND SCALE 1 PLUY CAVAT	MAN WT 32.45 1b @ \$2.00/1b DPT. O 1 R-64.90 "RETURNED FOR CREDIT" MAN WT 32.45 1b @ 15/ \$7.15/1b PLU00001 R-15.47 "RETURNED FOR CREDIT"			
	CHANGE \$80.37			

■ PLU level shift (for direct PLU)

This shift can double or triple the number of PLUs on your register without adding additional direct PLU keys. You can use direct PLUs in three levels by utilizing shift keys [1], [12], and [13]. These keys have the following functions.

- L1: Shifts the PLU level from level 2 or 3 to level 1 (ordinary level).
- [12]: Shifts the PLU level from level 1 or 3 to level 2.
- L3: Shifts the PLU level from level 1 or 2 to level 3.

You must program your machine in the PGM2 mode to select one of the two PLU level shift modes — automatic return mode* and lock shift mode** — and decide whether to allow PLU level shift in both the REG and MGR modes or in the MGR mode alone.

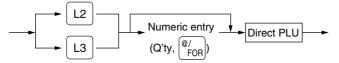
- * The automatic return mode automatically shifts the PLU level back to level 1 after a direct PLU key is pressed. You can select whether the PLU level should return each time you enter one item or each time you finalize one transaction.
- ** The lock shift mode holds the current PLU level until a PLU level shift key is pressed.

Automatic return mode

If you shift the PLU level while in the automatic return mode, press the desired PLU level shift key before numeric entries.

Procedure

· each item



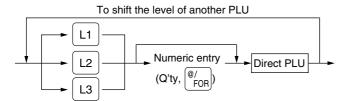
· each transaction



Lock shift mode

If you shift the PLU level while in the lock shift mode, press the desired PLU level shift key before numeric entries.

Procedure



NoteIf you select the automatic return mode, it is not necessary to use the use the use on the keyboard, but if you select the lock shift mode, it is necessary to use the key.

Example

Direct PLU1: PLU code 1 (PLU level 1), PLU code 65 (PLU level 2) Direct PLU2: PLU code 2 (PLU level 1), PLU code 66 (PLU level 2)

• When your machine has been programmed for the automatic return mode:

Key operation	Print			
L2 1 2 1 CAAT	PLU00001 PLU00065 PLU00002 PLU00001	\$1.25 \$12.00 \$1.50 \$1.25		
	CASH	\$16.00		

• When your machine has been programmed for the lock shift mode:

Key operation	P	Print		
L1 1 2 1 2 CAAT	PLU00001 PLU00065 PLU00066 PLU00065	\$1.25 \$12.00 \$30.00 \$12.00		

■ PLU/UPC price level shift

Two different price levels can be programmed for each PLU or UPC.

The price levels can be changed for PLU or UPC registrations.

You can shift the PLU/UPC price level (level 1 or 2) by utilizing the price level shift key (PRICE |).

You must program a price level shift mode (i.e. automatic return mode* or lock shift mode**) and the operating mode to be used for the price level shift (i.e. both REG/MGR modes or MGR mode alone).

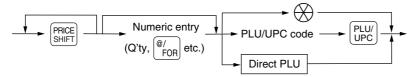
- * The automatic return mode automatically shifts the PLU/UPC price level back to level 1 after a PLU/UPC shift entry. You can select whether the price level should return each time you enter one item or each time you finalize one transaction.
- ** The lock shift mode holds the current PLU/UPC price level until pressing the price level shift key.

Automatic return mode (for price level)

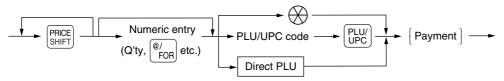
If your register has been programmed for the price level shift in the automatic return mode, press the price level shift key before a numeric entry.

Procedure

(each item)



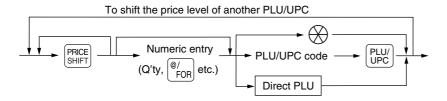
(each transaction)



Lock shift mode (for price level)

If your register has been programmed for the price level shift in the lock shift mode, press the price level shift key before a numeric entry.

Procedure



Note

You can program "printing of the price level text (LEVEL 1/LEVEL 2)". Please refer to "Programming for optional feature selection" described in the "PROGRAMMING" section of this manual.

Example

PLU price level 1: PLU 1 (\$1.91), PLU 2 (\$0.79) PLU price level 2: PLU 1 (\$2.00), PLU 2 (\$0.99)

• When your register has been programmed for the automatic return mode (by one item):

Key operation 1 PRICE 1 PRICE 1 PRICE 1

Print		
LEVEL 1 PLU00001 LEVEL 2 PLU00001 LEVEL 1 PLU00002 CASH	\$1.91 \$2.00 \$0.79 \$4. 70	

• When your register has been programmed for the lock shift mode:

Key operation	
1 (PLU) (UPC) PRICE 1 (PLU) (UPC) 2 (PLU) (UPC) (CAAT)	

Print		
LEVEL 1 PLU00001 LEVEL 2 PLU00001 LEVEL 2 PLU00002 CASH	\$1.91 \$2.00 \$0.99 \$4. 90	

■ Set PLU entries

Operations are the same as normal PLU's.

When a set PLU is entered, an entered or preset amount is printed as the unit price and then those PLUs linked to the set PLU are printed automatically.

Example

Key operation	Pri	nt
20 CA/AT	PLU00020 PLU00201 PLU00202	\$2.50
	CASH	\$2. 50

Note

The unit price of the set PLU (ex. PLU 20) is the registered amount of the set PLU. The tied PLU's memory is updated only by the entered quantity.

■ Link PLU/UPC entries

The operation is the same as normal PLU's/UPC's. When this PLU/UPC is entered, the linked PLU's amount is included and the linked PLU's label is printed automatically. Only the 1st PLU is affected by the status shift keys (TAX), TAXY, TAXY,

Example

When PLU 21 is linking PLU 25,26,27 as follows

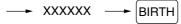
Key operation	Print	
21 PLLV UPC CAAT	PLU00021 PLU00025 PLU00026 PLU00027	\$3.50 \$3.00 \$2.00 \$8.00
	CASH	\$16. 50

■ Age verification (Birthday entry)

The age verification function is used for prohibiting the sale of goods (departments, PLUs or UPCs) for certain aged persons based on a registered birthday.

When a department/PLU/UPC for which a figure other than zero (01 to 99) has been programmed as the age limitation is entered, a birthday entry must be completed.

Procedure



Birthday (five or six digits)

Note

- A birthday entry can be performed two or more times at any point during a transaction, however the last entered birthday remains in effect.
- You can enter the date as far back as 98 years.
 [Ex.] When the current year is 2005: you can enter the year 1907-2005.

Example

Oct. 2, 1985 (When dept. 17 is programmed as the age limitation "17".)



When the preset option for "Birthday print availability (#2616)" is programmed as "Allow", the birthday date is printed.

■ Mix-and-match entries

This function is convenient for matching several PLU/UPC items and selling them in a lump (e.g. bundle sale, multi-packed sale, etc.). The matching q'ty and adjusted amount are assigned to a mix-and-match table. All items that are programmed into the same table are treated as if they belong to one group.

Example

Selling on a mix-and-match basis the following items in table no. 1 to which the matching q'ty "3" and the adjusted amount "\$10.00" are assigned:

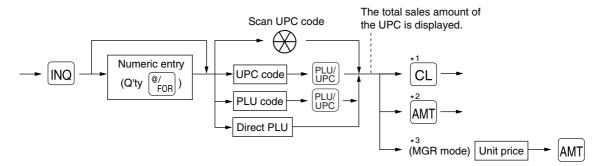
PLU 40 (Unit price: \$5.00)PLU 41 (Unit price: \$3.00)PLU 42 (Unit price: \$2.50)

Key operation	F	Print
Treated as \$5.00 item \rightarrow $_{40}$ Treated as \$3.00 item \rightarrow $_{41}$ Treated as \$2.00 item \rightarrow $_{42}$ CAAT	PLU00040 PLU00041 PLU00042 CASH	\$5.00 \$3.00 \$2.00 \$10.00

■ Price inquiry (view) function (for PLU/UPCs)

You can use this function when you want to know the unit price of the PLU/UPC item during transaction in the REG/MGR mode.

Procedure



- *1: Press the [CL] key to cancel the inquiring (view) mode.
- *2: Press the AMT key when you want to register the unit price of the PLU/UPC displayed.
- *3: You can change the unit price temporarily in the MGR mode. The unit price which is programmed in PGM mode is not changed (Price override entry).

Note For the repeat entry, use the FEFAT key.

Example	Key operation	Print	
Price is displayed. –	5 PLU (NQ) (NQ) (NQ) (NQ) (NAT) (AAT)	PLU00005 5089123456708# GRAPE CASH \$7	\$2.00 \$5.20 7.20

■ UPC learning function

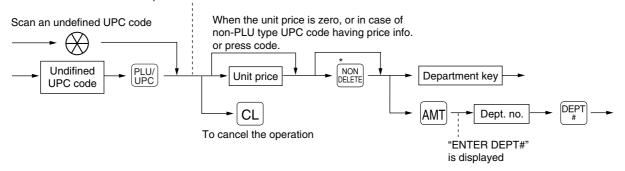
When you enter or scan an undefined code, you are required to enter the unit price "amount" and the associated department. The UPC code, unit price and the department entered are stored in the UPC file and is used for future sales entries.

Note

- When there is no capacity remaining in the file, the data is not stored in the file.
- The text of the entered department is applied to the entered UPC code.
- You can use the UPC learning function in the training mode. This may be convenient to practice when installing the scanning system.

Procedure

"NO RECORD" is displayed and the beep sound occurs three times.



* Press the key when you want to exempt the UPC code entered from the non-accessed UPC delete function (deletion occurs by executing #105 in Z1 mode).

Note For the repeat entry, use the key.

Example	Key operation	Print	
"NO RECORD" is displayed.	→ 5056789123404 (LLV) 750 5 (CMAT)	5056789123404# DPT. O5 \$ CASH \$7.	7.50 50

■ Price change function (for UPCs)

You can use this function when you need to change the unit price or associated department of a UPC item in REG/MGR mode.

There are two methods for price changes:

- 1. Price change mode
 - You can change the preset price and/or the associated department of a UPC item without entering PGM mode.
- 2. Changing a price during a transaction

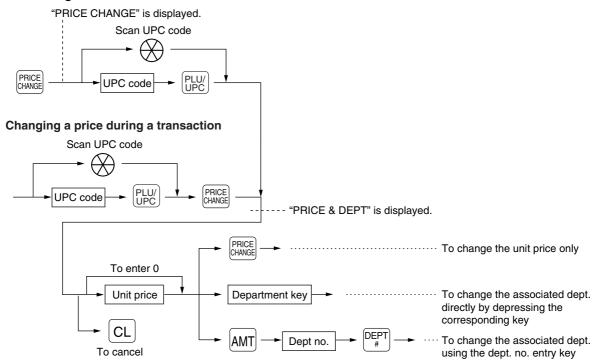
When a wrong UPC price and/or associated department is found during transaction, you can correct them at the time of the transaction. With the entry of a new price and/or associated department, the preset price and/or associated department is automatically changed to the new price and/or associated department.



For the Non-PLU type price embedded UPC-A codes and press codes, the prices in the codes have the priority over the preset prices. So, for these codes, a changed price is valid only when the price change is executed.

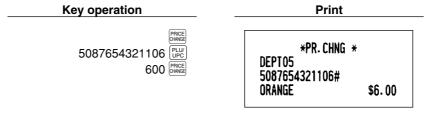
Procedure

Price change mode

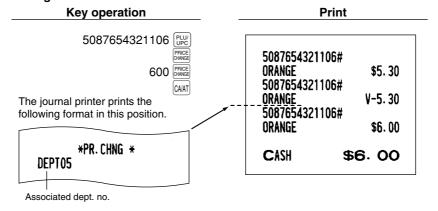


Example

• Price change mode



• Changing a price during a transaction



Note

- When an undefined code is entered in the price change mode, the register results in an error.
- When you press the key during a transaction, the UPC entry is voided upon the 1st depression of the key, then you are allowed to enter a correct price and/or associated department.
- When an associated department is changed, the item label for the department will be also changed automatically to the item label of new associated department entered.
- For the repeat entry, use the REFAT key.

2 Displaying and printing subtotals

Your register provides these five types of subtotals:

■ Merchandise subtotal

Press the we at any point during a transaction. The net sale subtotal - not including tax - will appear in the display.

■ Taxable subtotal



Press the sale subtotal of taxable 1 items will appear in the display.

Taxable 2 subtotal

Press the [NATE] and [SET] keys in this order at any point during a transaction. The sale subtotal of taxable 2 items will appear in the display.

Taxable 3 subtotal

Press the sale subtotal of taxable 3 items will appear in the display.

Taxable 4 subtotal

Press the sale subtotal of taxable 4 items will appear in the display.

■ Including-tax subtotal (full subtotal)

Press the stl key at any point during a transaction. The sale subtotal including tax will appear in the display.

■ Food stamp-eligible subtotal

Press the FSD key at any point during a transaction. The sale subtotal of items eligible for food stamp payment will appear in the display.

■ Tray subtotal

Press the TRAY key during a transaction in the REG or MGR mode.

The contents of the tray total itemizer which include tax are printed and displayed.

3 Finalization of transaction

■ Cash or Check tendering

Press the str. key to get an including-tax subtotal, enter the amount tendered by your customer, then press the charge or care key if it is a cash tender or press the charge or charge key if it is a check tender. When the amount tendered is greater than the amount of the sale, your register will show the change due amount and the text "CHANGE". Otherwise your register will show the text "DUE" and a deficit. Make a correct tender entry.

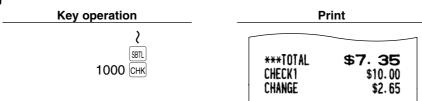
Example

Your customer pays \$10.00 for an including-tax subtotal of \$7.35.

Cash tendering



Check tendering



■ Mixed tendering (check + cash)

Example Your customer pays \$10.00 by check and \$5.00 in cash for an including-tax subtotal of \$14.56.



■ Cash or Check sale that does not need any tender entry

Enter items and press the $_{\text{CHAT}}$ or $_{\text{CA2}}$ key if it is a cash sale or press the $_{\text{CHK}}$ or $_{\text{CHK}}$ key if it is a check sale. Your register will display the total sale amount.

Example

Selling a \$3.00 item (dept. 6) and another \$7.15 item (PLU 10) for cash

Key operation

300 6

10 Pur CANAT

Print

DPT. 06 \$3.00
PLU00010 \$7.15

CASH \$10.15

In the case of check sale

CHECK1 \$10.15

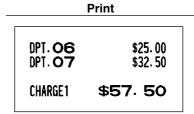
■ Charge (credit) sale

Enter items and press the corresponding charge keys (CH thru CH5).

Example

Selling a \$25.00 item (dept. 6) and a \$32.50 item (dept. 7) and accepting the payment by charge account

2500 6 3250 7 CH



Amount tendering operations (i.e., change calculations) can be achieved by the ch thru ch key when it has been preset in PGM2 job #2320.

■ Mixed-tender sale (cash or check tendering + charge tendering)

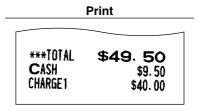
Example

Your customer pays \$9.50 in cash and \$40.00 by charge for an including-tax subtotal of \$49.50.

Key operation

2
SBTL

950
CHAT



Note

Press the CHK or CHK2 key or the CH thru CH5 keys in place of the CHAT key when your customer makes payment by checks or by charge cards.

4 Food stamp calculations

■ Food stamp tendering

If your customer makes payment (or tendering) in food stamps, obtain the food stamp-eligible subtotal* by pressing the FEND key and make a food stamp tender entry before entering a cash or check tender.

Note

The food stamp-eligible subtotal* depends upon how your register is programmed based on the food stamp-eligibility of the automatic tax on a sale of items eligible for food stamp payment, or whether your register is programmed to allow the automatic tax to be paid with food stamps or not or to exempt taxation. The example below presupposes that your register has been programmed to exempt taxation.

When the amount tendered in food stamps is greater than the food stamp-eligible subtotal:

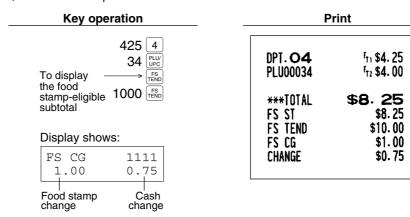
Your register shows two change due amounts in its display.

The food stamp change due appears at the left of the display in dollars and the cash change at the right in cents.

· When you sell only items eligible for food stamp payment.

Example

Your customer purchases a \$4.25 item (dept.4, taxable 1, eligible for food stamp payment) and another \$4.00 item (PLU 34, taxable 2, eligible for food stamp payment) and tenders \$10.00 food stamps for them.



· Mixed sale of an item eligible for food stamps and another item not eligible for food stamps

Example

Your customer purchases a \$2.48 item (dept. 5, taxable 1, eligible for food stamps) and another \$5.42 item (dept. 8, nontaxable, ineligible for food stamps) and pays \$5.00 in food stamps and \$5.00 in cash.

Food stamp change due

Cash change

due

Key ope	ration		Print	
	248 5 542 8	DPT. 05 DPT. 08	F _{T1} \$2. 48 \$5. 42	
	500 TEND 500 CAAT	***TOTAL FS ST FS TEND FS CG	\$7. 90 \$2.48 \$5.00 \$2.00	-Food stam
FS CG 2.00	1111	CASH Change	\$5.00 \$0.10	change due
Food stamp change	Cash change			

When the food stamp tender is smaller than the food stamp-eligible subtotal:

 Accept the remainder in food stamps or in cash or check. If your register is programmed to exempt taxation, additional food stamp tender is not allowed.

Example

Your customer buys a \$3.18 item (dept. 5, taxable 1, eligible for food stamps) and another \$1.24 item (dept.7, taxable 2, eligible for food stamps) and pays \$4.00 in food stamps and the remainder - \$1.00 in cash.

Key operation	
318 124	5 7
400 To enter the →100 cash tendering of the remainder	FS TEND CA/AT

Print		
DPT. O5	F _{T1} \$3. 18	
DPT. O7	F _{T2} \$1. 24	
MDSE ST	\$4. 42	
TAX2	\$0. 02	
***TOTAL	\$4. 44	
FS ST	\$4. 42	
FS TEND	\$4. 00	
CASH	\$1. 00	
CHANGE	\$0. 56	

■ Food stamp status shift

Your machine allows you to shift the programmed food-stamp status of each department, (a) thru (a), percent key or the PLU key by pressing the (s) key prior to those keys. After each entry is completed, the programmed food stamp status is resumed.

Example

You sell a \$2.32 item of dept. 2 (food-stamp eligible) as a food-stamp ineligible item and another \$3.18 item of PLU 86 (food-stamp ineligible) as a food-stamp eligible item and accept \$4.00 in food stamps and \$2.00 in cash.

Key operation		
232 SHIFT		
	FS END	
400 -	FS END	
200	A/AT	

Print		
DPT. 02 PLU00086	\$2.32 _F \$3.18	
***TOTAL FS ST FS TEND FS CG CASH CHANGE	\$5. 50 \$3. 18 \$4. 00 \$0. 00 \$2. 00 \$0. 50	

5 Tax calculations

■ Automatic tax

When your register is programmed with a tax table (or tax rate) and the tax status of an individual department and PLU is set for taxable, it computes the automatic tax on any item that is entered directly into the department or indirectly via a related PLU.

Example

Selling five \$6.70 items (dept. 1, taxable 1) and one \$7.15 item (PLU 85, taxable 2) for cash

Key operation	Print	
5 (Prop.) 670 1 85 (CAAT)	DPT. O 1 PLU00085 MDSE ST TAX1 TAX2	5 @ \$6.70 11\$33.50 12\$7.15 \$40.65 \$2.01 \$0.29

CASH

\$42.95

Manual tax

Your machine allows you to enter tax manually after item entries.

Example Selling an \$8.00 item (dept. 7) for cash with 50 cents as tax

Key operation	Print		
800 7 50 TAX CAAT	DPT. 07 M-TAX	\$8.00 \$0.50	
	CASH	\$8. 50	

■ Automatic-tax delete

You can delete the automatic tax on the taxable 1, taxable 2, taxable 3 and taxable 4 subtotal of each transaction by pressing the τ_{AX} key after the subtotal is displayed.

Example

Selling a \$7.25 item (dept. 1, taxable 1) and another \$5.15 item (dept. 3, taxable 2) for cash and entering the sale as a non-taxable one

Key operation	Print	
725 1 515 3 TAX SHIFT SBTL TAX SHIFT SBTL	DPT. O1 T1 \$7. 25 DPT. O3 T2 \$5. 15 TAX1 ST \$0.00 TAX2 ST \$0.00	
TAX	CASH \$12.40	

If any of the media keys (i.e. cash, check or charge 1 thru charge 5) are programmed as tax delete in PGM2 mode, the tax can be deleted without using the procedures above. In this case, depressing a corresponding media key alone will always cause the programmed tax to be deleted.

Example

When the $\boxed{\text{c}_{\text{A2}}}$ key is programmed as tax delete for the same case with the above example

Key operation	Print	
725 1 515 3 CA2	DPT. O 1 DPT. O 3 MDSE ST TAX1 TAX2	1 1 \$7. 25 1 2 \$5. 15 \$12. 40 \$0. 00 \$0. 00
	CASH2	\$12.40

■ Tax status shift

Your machine allows you to shift the programmed tax status of each department, \bigcirc thru \bigcirc 4, percent key or the PLU key by pressing the $\frac{TAX}{SHIFT}$, $\frac{TAXZ}{SHIFT}$ and/or $\frac{TAXZ}{SHIFT}$ keys before those keys. After each entry is completed, the programmed tax status of each key is resumed.

Example

Selling the following items for cash with their programmed tax status reversed

- One \$13.45 item of dept. 7 (non-taxable) as a taxable 1 item
- One \$7.00 item of PLU 25 (non-taxable) as a taxable 1 and 2 item
- One \$4.00 item of dept. 3 (taxable 2) as a non-taxable item
- Two \$10.50 items of dept. 1 (taxable 1) as taxable 2 items

Print		
DPT. 07 PLU00025 DPT. 03 DPT. 01 DPT. 01 MDSE ST TAX1 TAX2	T 1 \$13. 45 T ₁₂ \$7. 00 \$4. 00 T 2 \$10. 50 T 2 \$10. 50 \$45. 45 \$1. 23 \$1. 12	
CASH	\$47. 80	

Note

The entry of a multi-taxable item for PST or GST will be prohibited as follows (for Canada).

In case of; Tax 1: PST, Tax 2: PST, Tax 3: PST, Tax 4: GST	In case of; Tax 1: PST, Tax 2: PST, Tax 3: GST, Tax 4: GST
Taxable 1 and 2 item prohibited	Taxable 1 and 2 item prohibited
Taxable 1 and 3 item prohibited	Taxable 1 and 3 item allowed
Taxable 2 and 3 item prohibited	Taxable 2 and 3 item allowed
Taxable 1 and 4 item allowed	Taxable 1 and 4 item allowed
Taxable 2 and 4 item allowed	Taxable 2 and 4 item allowed
Taxable 3 and 4 item allowed	Taxable 3 and 4 item prohibited

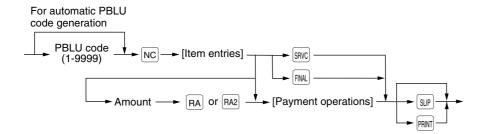
6 Guest Check (PBLU)

This feature is used to store and recall previous or credit balances of an open charge account when a previous balance lookup (PBLU) code is entered. The PBLU code can be 1 to 9999.

New charge accounts

For a new customer, open a new charge account by assigning a PBLU code.

Procedure



Note

- The PBLU code refers to a code that will be used whenever the guest check must be accessed for re-ordering or final payment.
- Your register can be programmed to generate PBLU codes in a sequential fashion. If your register has not been programmed to do so, each PBLU code can be entered manually.
- When the SRVC key is pressed, the tax is not calculated.
- You can temporarily finalize a guest check by pressing the [NML] key. This print out of the guest check will show the current balance, including tax. The guest check, however, is still "open". This means you can still make additional orders to it.

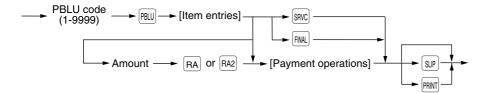
Example

Key operation	P	Print	
111 NC 3500 2 2700 3	***PBAL DPT. 02 DPT. 03 BAL FWD MDSE ST TAX1 ***TOTAL	#O111 \$0.00 11\$35.00 \$27.00 \$62.00 \$62.00 \$2.10	

Additional item entries

For making additional guest check entries, enter the PBLU code first for automatic PB lookup.

Procedure



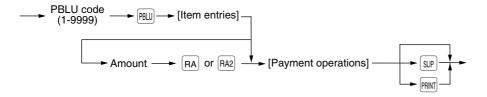
Example

Key operation	Print	
111 PBLU 1400 5 1600 6 FNAL	***PBAL DPT. 05 DPT. 06 BAL FWD ***TOTAL	#O111 \$64.10 \$14.00 \$16.00 \$30.00

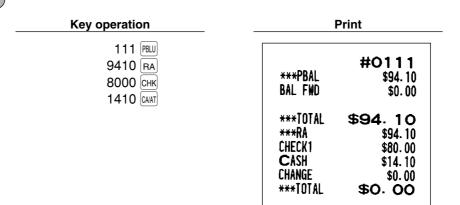
■ Settlement

Use the following procedure:

Procedure



Example



Deposit entries

Deposit refers to a payment on a charge account. It can be received in cash, check or by charge. You can make the deposit entry only while in a guest check transaction. It cannot be done during handling of a tendered amount

A received deposit can be refunded by pressing the RND key. You cannot attempt to refund an amount larger than the deposit balance.

Procedure



Example

To record a \$50.00 deposit in cash made by a customer with PBLU code 111

Key operation			
111	PBLU		
5000	DEPO		
	CA2		
	SRVC		

***PBAL Cash2 Deposit Bal fwd Service	# O111 \$0.00 \$50.00 \$0.00 -50.00
SERVICE	~30.00

Example

To refund a \$50.00 deposit made by a customer with PBLU code 111

Key operation		
111	$\overline{}$	
5000	RFND	
	CA2	
	SRVC	

O111 -50.00 -50.00 \$0.00 \$0.00

Print

7 Auxiliary entries

■ Percent calculations (premium or discount)

- Your register provides the percent calculation for the merchandise subtotal and item entries. You need to specify in advance whether the register should perform the percent calculation based on the merchandise subtotal or each item entered.
- Percentage: 0.01 to 99.99%

Percent calculation for the merchandise subtotal

Example

Selling four \$1.40 items of dept. 5 and two \$2.25 items of dept. 7; all these items are sold for cash at a premium of 10%

(This example presumes that a premium of 10% has been programmed for the \(\) key.)

Print

4 @ \$1.40

DPT. O5 \$5.60

DPT. O7 \$2.25

DPT. O7 \$2.25

MDSE ST \$10.10

10.00%

%1 \$1.01

CASH \$11.11

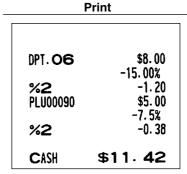
Percent calculation for item entries

Example

Selling for cash an \$8.00 item of dept. 6 at a discount of 15% and another \$5.00 item of PLU 90 at a discount of 7.5%

(This example presumes that a discount of 15% has been programmed for the [w2] key.)

800 6
%2
90 First
7 • 5 %2
CAMT



■ Discount entries

For discount or coupon tenderings, you may use the \bigcirc thru \bigcirc 4 key.

If the discount or tendered coupon is the one applicable to sales, use the vendor coupon or if it is applicable to each department key, use the store coupon.

Discount for the merchandise subtotal

Example

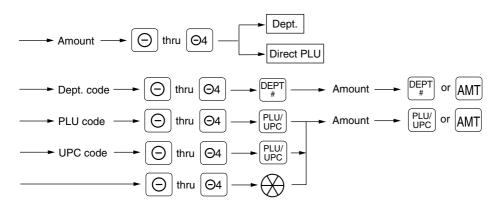
Selling a \$5.75 item of dept. 6 and another \$7.50 item of PLU 80 for cash after subtracting the discount amount \$1.00 from the total sale amount

(This example presumes that the vendor coupon has been programmed for the [92] key.)

Key operation		Print	
575 6 80 PLPC 100 ©2 CAAT	DPT. 06 PLU00080 (-) 2	\$5.75 \$7.50 -1.00	
	CASH	\$12. 25	

Discount for item entries

Procedure



Example

Selling a \$6.75 item of dept. 7 for cash after subtracting the coupon amount 75¢ (This example presumes that the store coupon has been programmed for the \bigcirc key.)

Key operation	Print	
675 7 75 © 7 CAAAT	DPT. 07 (-) 1 DPT. 07 CASH	\$6.75 -0.75 \$6.00

Note

^{*} The Θ is entered as a modifier for the department which will be netted by the coupon amount. Such item netting coupon entries may generally be entered at any point within a transaction. Two lines are printed for each entry: The first is the label programmed for the Θ function and the second is related department and Θ amount.

■ Refund entries

If a refund item is the one entered into a department, enter the amount of the refund, then press the key and the corresponding department key in this order; and if an item entered into a PLU (or UPC) is returned, enter the corresponding PLU (or UPC) code, then press the and keys, or press the and direct PLU keys without entry of PLU code, in this order.

Example

Receiving the following items returned:

One \$2.50 item of dept.6 and seven \$2.10 items of PLU 13

| CHANGE | ST | CO | CHANGE | CANAT | C

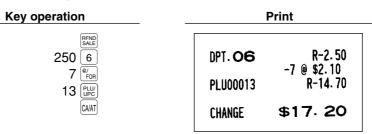
Refund sales mode

This function is used for those item return entries relating to departments, PLUs/subdepartments and UPCs. Pressing the key at the beginning of a transaction causes the register to enter the REFUND SALES mode. All of the REFUND SALES mode entries are automatically handled as refund entries. This mode cannot be finalized by check payment entry.

Example

Receiving the following items returned:

One \$2.50 item of dept.6 and seven \$2.10 items of PLU 13



Printing of non-add code numbers

Enter a non-add code number such as a customer's reference number within a maximum of 16 digits and press the # key at any point during the entry of a sale. Your register will print it at the time of entry.

Example Selling a \$15.00 item of dept. 6 by charge account to a customer whose code number is 1230

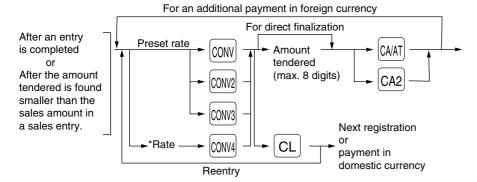
Key operation	Print	
1230 # 1500 6	#1230 DPT. O6 \$15. 00	
_	CHARGE1 \$15.00	

8 Payment treatment

■ Currency conversion

Your register allows payment entries of foreign currency. Pressing the with thru whey creates a subtotal in foreign currency. Cash payment is the only media that can be handled after currency conversion.

Procedure



*Rate: 0.000000 to 999.999999

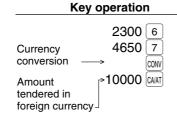
Note

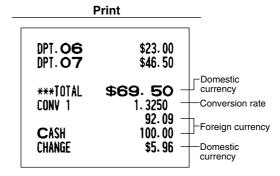
When the amount tendered is short, the deficit is shown in domestic currency.

Example

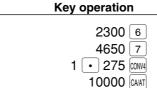
To convert the amount owed (\$69.50) into the designated foreign currency

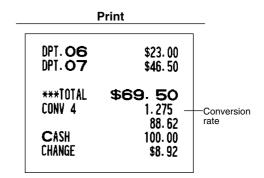
Preset rate (1.325) - CONV 1





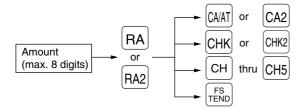
Manual rate - CONV 4 (The conv) key can be used only for the manual entry.)





Received on account entries

Procedure



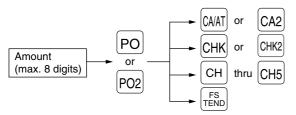
Example

A customer whose reference number is 12345 tenders \$48.00 by check for received on account.

Key operation	Print		
12345 # 4800 RA CHK	#12345 CHECK1 ***RA	\$48.00	

■ Paid out entries

Procedure



Example

You pay \$30.00 by check to a vendor whose code number is 6789.



■ No sale (exchange)

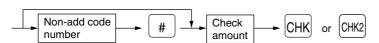
Simply press the NS key without any entry. The drawer will open and the printer will print "NO SALE" on both the journal and the receipt. If your machine is preset to print a non-add code number before pressing the NS key, a no sale entry is achieved with a non-add code number printed.

#45678 NO SALE

■ Cashing a Check

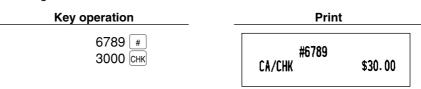
Enter the check amount, then press the CHK or CHK2 key.

Procedure



Example

Cashing a check of a \$30.00 amount



■ Bottle return

This function is used to handle the payment (paid out) for returned empty bottles or cans.

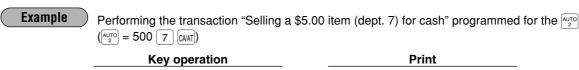
Example

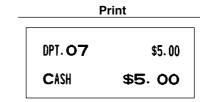
You pay for ten 15¢ returned empty bottles. (This example presupposes that dept. 11 has been programmed as bottle return department.)

Key operation	Print		
10 [®] FOR 15 11 CAAT	DPT. 1 1	10 @ -0.15 -1.50	
	CHANGE	\$1.50	

9 Automatic sequencing key (Auto key) entries

You can achieve many different key sequences automatically with a single key depression by using the Auto function key.





CORRECTION

1 Correction of the last entry (direct void)

If you make an incorrect entry relating to a department, PLU/subdepartment, UPC, percentage (% through %4), deduction (through 64) or refund, you can correct this entry by pressing the well key immediately after the incorrect entry.

Example	e
---------	---

Key operation

Print

	6 0ID
2	LU/ IPC
<u>_</u>	OID LU/ IPC
=	0ID 8
_	62 OID
328	9
	9 0ID
200	8
_	OID VAT

DPT. 06	\$12.50
DPT. 06	V-12, 50
PLU00002	\$1.50
PLU00002	V-1.50
5012345678900	•
APPLE	\$2.50
5012345678900	¥
APPLE	V-2.50
DPT. OB	\$6.00
DF1.06	
	-15.00%
%2	-0. 90
%2	V\$0.90
DPT. OS	\$3, 28
(-) 1	43. E0
	۸ ۵۰
DPT. 09	-0.28
DPT. 09	V\$0. 28
DPT. 08	R-2.50
DPT. OB	RV\$2,50
	11172.00
CASH	\$9. 28

2 Correction of the next-to-last or earlier entries (indirect void)

With the woll key, you can void any incorrect department, PLU/subdepartment, UPC or item refund entry made during a transaction if you find it before finalizing the transaction (e.g. pressing the wey). This function is applicable to department, PLU/subdepartment, UPC and item refund entries only. For the operation, press the wey just before you press a department key, wey, direct PLU key, wey or just before you scan a UPC code. For the refund indirect void, press the wey after you press the

Example

RFND key.

Key operation

Print

1310 6 1755 7 10
58 (%) 825 7 825 7 5012345678900 (%) 6
58 VOID 8 58 VOID PLLV UPC 5012345678900 VOID PLLV CAAT

DPT. 06	\$13.10
DPT. 07	\$17,55
PLU00010	\$7.15
PLU00008	\$3.00
PLU00058	\$3.00
DPT. O 7	\$8. 25
50123456789	* * * * * * * * * * * * * * * * * * *
APPLE	\$2.50
DPT. 06	V-13. 10
PLU00008	V-3.00
PLU00058	V-3.00
50123456789	100#
APPLE	V-2.50
CASH	\$32. 95

3 Subtotal void

You can void an entire transaction. Once the subtotal void is executed, the transaction is aborted and the register issues a receipt.

Example

Key operation	P	Print
1310 1 1755 6 10 () () () () () () () () () (DPT. O1 DPT. O6 PLU00010 PLU00035 MDSE ST SBTL VD ***TOTAL	\$13. 10 \$17. 55 \$7. 15 \$3. 00 \$40. 80 -40. 80

4 Correction of incorrect entries not handled by the direct or indirect void function

Any errors found after the entry of a transaction has been completed or during an amount tendered entry, cannot be voided. These errors must be handled by the manager. The following steps should be observed:

- 1. If you are in the middle of making an amount tendered entry, you must first finalize the transaction before making corrections.
- **2.** Try to make correct entries from the beginning.
- 3. Hand the incorrect receipt to your manager for its cancellation.

CORRECTION AFTER FINALIZING A TRANSACTION (AFTER GENERATING A RECEIPT)

When you need to void incorrect entries that are found after finalizing a transaction or cannot be corrected by direct or indirect void, follow this procedure in the MGR mode.

- 1. Turn the mode switch to the MGR position.
- **2.** Press the woll key to put your register in the VOID mode.
- **3.** Repeat the entries that are recorded on an incorrect receipt. (All data for the incorrect receipt are removed from register memory; the voided amounts are added to the void register totalizer.)

Incorrect receipt **Cancellation receipt** 08/27/2004 11:10PM 1111 08/27/2004 11:10PM 1111 123456#1633 123456#1634 DICK PLU00001 *VOID* \$1.25 \$5.00 DPT.02 PLU00001 \$1.25 DPT. 02 \$5.00 CASH \$6. 25 \$6.25 CASH

Note

Your machine leaves the VOID mode whenever a transaction is canceled (i.e. finalized in the VOID mode.) To void additional transactions repeat steps **2.** and **3.** above.

OVERRIDE ENTRIES

Programmed limits (such as maximum amounts) for functions can be overridden by making the entry in the MGR mode.

Procedure

- 1. Turn the mode switch to the MGR position.
- **2.** Make the override entry.

Example

Selling a \$15.00 item (dept. 2) for cash and subtracting the coupon amount \$2.50 from the sale amount (This example presumes that the register has been programmed not to allow coupon entries over \$2.00.)

Print

\$12.50

Key operation	
REG-mode 250 ©2Error entries	DPT. 02 (-) 2
Turn the mode switch	CASH

Return the mode switch to the REG position.

to the MGR position.

CA/AT

250 ⊙2

OVERLAPPED CASHIER ENTRY

This function allows you to switch from one cashier to another interrupting the first cashier's entry. The second cashier can make a sales entry, then the first cashier may continue.

Example

Cashier 1: Entry started

Cashier 2: Cashier change (1 to 2), interruption initiated

Cashier 2: Transaction finished (2)

Cashier 1: Cashier change (2 to 1), entry restart

Note

- The overlapped cashier entry is not available while the tendering sale.
- If any cashier is still making an entry (or has not finalized the transaction yet), the machine does not run in any mode other than REG and MGR and X/Z reports can not be performed. The error message "CASHIER ERR." and the corresponding cashier code(s) are displayed at this time.

Key operation		Comments
1. Cashier 1 is assigned.		The entry by cashier 1 is started.
-	(1 CASH #)	
	100 1	
;	360 🔞	
	3	
2. Cashier 2 is assigned.		The entry by cashier 2 is started.
	2 (CASH #	(The entry by cashier 1 is interrupted.)
	3 (a/ FOR	
	150 2	
	CA/AT	The transaction by cashier 2 is finalized.
3. Cashier 1 is assigned.		
	1 CASH	The entry by cashier 1 is restarted.
	100 🔟	
;	360 🔳	
	CA/AT	The transaction by cashier 1 is finalized.

SPECIAL PRINTING FUNCTIONS

1 Copy receipt printing

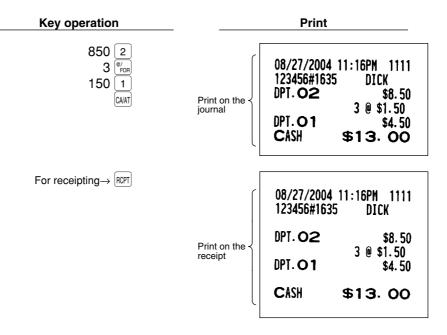
If your customer wants a receipt after you have finalized a transaction with the receipt ON-OFF function in the "OFF" status (no receipting), press the RPT key. This will make a copy receipt. Your register can also print a copy receipt when the receipt ON-OFF function is in the "ON" status.

Note

Pressing the ROT key in the OP X/Z mode before registration toggles the status "ON" and "OFF".

Example

Printing a copy receipt after making the entries shown below with the receipt ON-OFF function in the "OFF" status



08/27/2004 11:16PM 1111
123456#1635 DICK

COPY

DPT. O2 \$8.50
3 @ \$1.50
DPT. O1 \$4.50

CASH \$13. OO

2 Validation printing function (Slip printer)

Your register can perform validation printing when it is connected with the slip printer. For the details about the slip printer, contact your authorized SHARP dealer.

- 1. Set a validation slip to the slip printer.
- 2. Press the key. The validation printing will start.

Note

When you make an entry for which compulsory validation printing can be overridden by performing the following operation. If you need this function, Contact your authorized SHARP dealer.

- 1. Move the mode key to the MGR position.
- 2. PRINT

3 Printing of the employee's arrival and departure times (Slip printer)

Your register can print the employee's arrival and departure time when it is connected with the slip printer. For the details for connecting a slip printer, please contact your authorized SHARP dealer. For printing of the arrival and departure times, you must be in the OP X/Z mode.

Printing of arrival time



Printing of departure time

4 Printing of header and footer graphic logos

As an optional setting, your register can print a graphic logo on the top of each receipt (header graphic logo). If preset to do so, a graphic logo can be printed on the bottom of each receipt (footer graphic logo) with the job code #2616. You can also print the graphic logos with the combination of 3-line header logo message or 3-line footer logo message. Printing only logo messages without the graphic logo is possible. Please consult your dealer when you want to change the setting.

• Sample receipt with a header graphic logo and a footer graphic logo



5 Remote printer send function

This function enables a partial order to be sent to the kitchen for preparation while the remaining order is still being placed.

Example

Remaining items will be sent to the remote printer when the transaction is finalized.

When this function is used, the subtotal void operation is not allowed.

TIME DISPLAY AND AUTOMATIC UPDATING OF THE DATE

1 Time display

When you need the time displayed, turn the mode switch to the OP X/Z position after the preceding transaction or operation is finalized.

You can also display the time by pressing the # key in the REG or MGR mode.

The time display disappears as soon as you press the CL key in the REG or MGR mode or begin the subsequent entry.

Sample display of 10:25 AM

2 Automatic updating of the date

Once the internal clock unit is started at the correct time, it continues to run as long as the built-in battery is charged, and updates the date (month, day, year) automatically.

FOR THE MANAGER

PRIOR TO PROGRAMMING

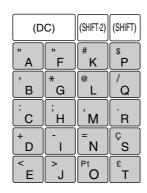
1 Programming keyboard layout

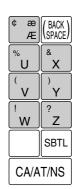
When you are in the PGM1 or PGM2 mode, the keyboard layout will be set to one of the programming layouts as shown below.

For ER-A410

RECEIPT	JOURNAL
(~)	(^)
()	(~)
(-)	(-)
(0)	(")

(NUM)	(SPACE)	Ø		
@/FOR	•	CL		
7	8	9		
4	5	6		
1	1 2			
	00			





For ER-A420

RECEIPT	JOURNAL	—	\rightarrow	•	•	1	l l	"	"	Ñ	ં	{	}	[]	(BACK)
!	@	#	\$	%	^	&	*	()	,	?	<	>			
1	2	3	4	5	6	7	8	9	0	+	-	@/FOR	•	CL		
Q	W	E	R	Т	Υ	U	I	0	Р			7	8	9		
Α	S	D	F	G	Н	J	K	L	/	=		4	5	6		
	Z	X	С	V	В	N	М	;				1	2	3		
(SHIFT)	(DC)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	,				0	00		SBTL	CA/AT

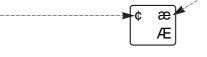
Note

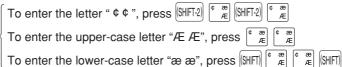
- The programming keyboard sheet is transparent, allowing placement over the standard keyboard sheet.
- The shaded area contains the character keys which are used for programming characters.

(DC) : Used to enter the double-size character.

(SHFT): Used to change a lower-case letter/upper-case letter. ----

(SHIFT-2): Used to select a symbol. -





(BACK) : Used to back up the cursor for deleting.

(SPACE): Used to enter a space.

(NUM) : Used to enter a numeric character.

2 How to program alphanumeric characters

You can program alphanumeric characters for departments, PLUs, UPCs, functions, etc. while in the character entry mode.

There are two ways for programming characters: using character keys on the keyboard and entering character codes with the numeric keys on the keyboard.

Using character keys on the keyboard

Enter a character according to the position in the programming keyboard layout.

Entering alphanumeric characters

To enter a character, simply press a corresponding character key.

To enter a numeric character, press \mathbb{N} key and enter a number by ten keys (0-9).

[Ex.] Entering the character "135": \sim 135 \rightarrow \sim

To enter a space, press the PACE key.

Entering double-size characters

(DC) : This key toggles the double-size character mode and normal-size character mode. The default is the normal-size character mode. The double-size character is displayed with the letter "=" (ex. =S).

[Ex.] To program the name "SHARP" in double size : $(DC) \longrightarrow SHARP \longrightarrow (DC)$

Entering lower-case letters

You can enter a lower-case letter by using this key. Press (MIT) key just before you enter the lower-case letter. This key also allows you to enter the characters/symbols shown at the upper right of keys.

[Ex.] To program the name "Sharp": $\longrightarrow S \longrightarrow \text{SHFI} \longrightarrow \text{harp} \longrightarrow \text{SHFI}$

Entering symbols shown at the upper left of keys

SHIT2 : You can enter symbols by using this key. Press SHIT2 key just before you enter the symbol.

[Ex.] To program the symbol " $\$ $\$ ": \longrightarrow [SHF12] \longrightarrow $\$ $\$ \longleftrightarrow [SHF12] \longrightarrow $\$

"(\sim)", and "(\sim)" keys are used only in combination with a character key. If the combination is unavailable, only a character key is entered. [Ex.] "Å": \longrightarrow ($\stackrel{\circ}{\sim}$) \longrightarrow A

Editing text

Note

You can edit the text you have entered by deleting characters.

(BACK) : Backs up the cursor for deleting the character or figure at the left of the cursor.

■ Entering character codes

Numerals, letters and symbols are programmable by entering the 00 key and character codes. See the "Alphanumeric character code table" on the next page. In this way, you can program characters other than the characters shown in the programming keyboard layout.

XXX → 00 XXX: Character code (3 digits)

• Double-size characters can be made by entering the character code 253. [Ex.] To program the name "SHARP" in double size

j ro program me name en min macazio eize

253 00 083 00 072 00 065 00 082 00 080 00 (DC) S H A R P

Alphanumeric character code table

Code	Character
001	á
002	â
003	ê
004	î
005	ì
006	í
007	ô
008	ó
009	û
010	ú
011	œ
012	ű
013	ú
014	ő
015	ó
016	Λ
017	Ψ
018	Γ
019	
020	Ω
021	Δ
022	θ
023	Ξ
024	П
025	Σ
026	Υ
027	Φ
028	Ű
029	Ú
030	Ú Ő
031	Ó
032	(space)
033	!
034	"
035	#
036	\$
037	%
038	&
039	,
040	(
041)
042	*
043	+
044	,
045	_

Code	Character
046	
047	/
048	0
049	1
050	2
051	3
052	4
053	5
054	6
055	7
056	8
057	9
058	:
059	;
060	, <
061	
062	
063	?
064	@
065	A
066	В
	С
067	
068	D E
069	
070	F
071	G
072	Н
073	l
074	J
075	K
076	L
077	M
078	N
079	0
080	Р
081	Q
082	R
083	S
084	Т
085	U
086	V
087	W
088	Х
089	Y
090	Z

Code	Character
091	Ä
092	Ö
093	Ü
094	۸
095	_
096	,
097	а
098	b
099	С
100	d
101	е
102	f
103	g
104	h
105	i
106	j
107	k
108	I
109	m
110	n
111	0
112	р
113	q
114	r
115	s
116	t
117	u
118	V
119	W
120	Х
121	У
122	Z
123	{
124	1
125	}
126	ß
127	¢
128	!!
129	1
130	2
131	3
132	4
133	1/2
134	F/T
135	←

Code	Character	
136 137	\rightarrow	
138	S	
139		
140	→	
141		
142	F -	
143		
144	T	
145	0	
146	;	
147	<u>ن</u> Ù	
148	à	
149	Æ	
150	ø	
151	Å	
152	¤	
153	é	
154	è	
155	Pt	
156	i	
157	Ñ	
158	ò	
159	£	
160	¥	
161	0	
162	Γ	
163		
164		
165		
177	Á Í Ā	
178	ĺ	
180	Ā	
181	ā	
182	Ē	
183	e	
184	T	
185	ī	
186	Ū	
187	ū	
188	Ņ	
189	ņ	
190	Č	
191	Š	
192	Ç	

Code	Character	
193	i	
194	Ġ	
195	Ş	
196	Ģ	
197	ġ	
198	Ķ	
199	ķ	
200	Ļ	
201	Ì	
202	ž	
203	Ð	
204	đ	
205	Ć	
206	Ć	
207	€	
208	P	
209	ě	
210		
211	š	
212	č	
213	ž	
214	ý	
215	ů	
216	ň	
217	,	
218	Ÿ	
219	ř	
224	*	
225	§	
226	Ø	
227		
228	1	
229]	
230 231] "	
231	ä	
233	Ö	
234	ü	
235	å	
236 237	a É	
237		
253	ñ *(DC)	
∠ექ	*(DC)	
	I	

*(DC): Double-size character code

: The shaded character cannot be displayed (will be displayed as space).

Note The character "!!" (code: 128) is displayed as "!".

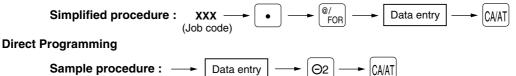
PROGRAMMING

This chapter illustrates how to program your cash register.

■ Basic instructions

All the programming items can be programmed by the **Job-Code-Based Programming** described later. However, your machine allows you to program some items using the **Direct Programming**, which does not require you to enter the job code.

Job-Code-Based Programming



(Object key)

■ Preparations for programming

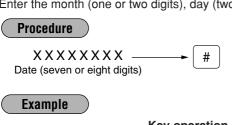
- 1. Plug your machine into a standard grounded AC outlet.
- 2. Turn the mode switch to the PGM1 or PGM2 position.
 To set the mode switch to the PGM1 position, use the manager or submanager key; and to set it to the PGM2 position, use the manager key.
- 3. Check to see whether both journal and receipt rolls are present in the machine. If they are missing, install journal and receipt paper rolls correctly referring to the procedure in "4. Installing and removing the paper roll" under "OPERATOR MAINTENANCE".
- **4.** Program the necessary items into your machine.

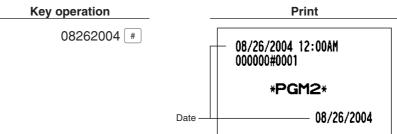
Direct Programming

1 Setting the date and time

Date PGM 2

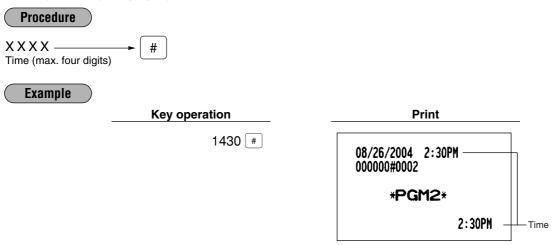
Enter the month (one or two digits), day (two digits), and year (four digits : 2000 - 2099) in this sequence.





Time PGM 2

Set the time using the military time (24-hour) system. For example, when the time is set to 2:30 AM, enter 230; and when it is set to 2:30 PM, enter 1430. The time will be printed and displayed using a real-time system. Once you set the time, the internal clock unit will continue to run as long as the built-in battery is alive and update the date (day, month, year) properly.

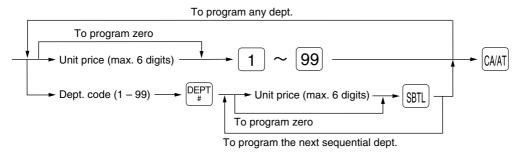


2 Programming for departments

Your machine is equipped with 20 (ER-A410)/10 (ER-A420) standard departments and a maximum of 99 departments. Your machine allows you to perform the following programming for each department.

■ Unit price PGM 1 PGM 2

Procedure



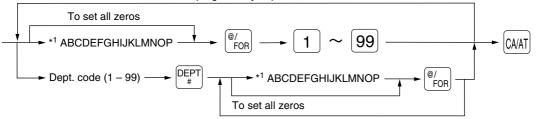
Example



■ Functional selection PGM 2

Procedure

To program any dept.



To program the next sequential dept.

Item	:	Selection:	Entry:
Α	Group number		0 thru 9
В	Commission group number		0 thru 9
С	Sign (plus/minus)	Plus	0
		Minus	1
D	Food stamp status	Ineligible	0
		Eligible	1
E	Tax 4 status	Non-taxable	0
		Taxable	1
F	Tax 3 status	Non-taxable	0
		Taxable	1
G	Tax 2 status	Non-taxable	0
		Taxable	1
Н	Tax 1 status	Non-taxable	0
		Taxable	1
I	Item validation printing	Non-compulsory	0
		Compulsory	1
J	Tare table number		1 thru 9
K	Scale entry	Inhibit	0
		Enable	1
		Compulsory	2
L	Registration type	Normal	0
		SICS (Single Item Cash Sale)	1
		SIF (Single Item Finalization)	2
M	Department type	Normal department	0
		Hash department	1
		Bottle return department	2
N	Type of unit price entry	Inhibit department key	0
		Open only	1
		Preset only	2
		Open and preset	3
0	Significant digit for HALO		1 thru 9
Р	Number of zeros to follow the significant digit for HALO		0 thru 7

Note

Group number

You can assign a department to a maximum of nine groups. This programming enables you to take group sales reports.

Commission group number

A commission group number (0–9, 0: non commission) can be assigned to each department.

Sign (plus/minus)

- Assign a plus sign to departments for normal sales transactions.
- Assign a minus sign to departments for minus transactions.

Food stamp status

• Assign a food stamp status (food stamp eligible or food stamp ineligible) to each department.

Tax status (taxable 1 thru 4/non-taxable)

- When an entry of a taxable department is made in a transaction, tax is automatically computed according to the associated tax table or rate.
- Tax 4 is prohibited if you use the food stamp function.

Item validation printing

If item entries must be validated, program corresponding departments for compulsory validation printing.

Tare table number

Tare table number associated with scale entry (1 thru 9).

Scale entry

Program a department for scale entry when your store requires items to be sold by weight and are placed on a scale connected to the register.

Registration type

- If an entry of a department programmed for SICS is made first, the sale will be finalized as soon as the department key is pressed. If the entry is made after entering a department not programmed for SICS, the sale will not be finalized until the MAT key is pressed.
- Whenever a sale is made to a department programmed for SIF, the sale is finalized as soon as the department key is pressed.

Department type

You may program each department as one of the following three types.

- Bottle Return (BR)
- Hash department

A hash department is used to enter the amount of a special "sale", such as a gift certificate sale or for the receipt of payment for utility bills, theatre tickets, etc., i.e. "non-sales" registrations. Any amounts entered in this department are not added to the grand total except tax amounts.

• Normal department.

Type of unit price entry

You may select one of the following four types of unit price entry for each department.

- · Open and preset
- Preset only
- · Open only
- · Inhibit department key

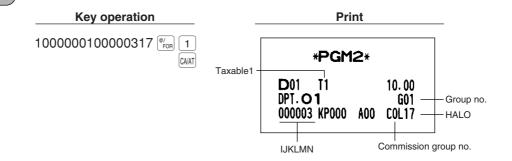
HALO (High Amount Lockout)

You can set an upper limit amount (HALO) for each department. The limit is affective for the REG mode operations and can be overridden in the MGR mode.

• "**OP**" is the same as **O** × 10^P

For example, presetting 14 (\$100.00) here means that amount entries of up to \$100.00 are allowed in the REG mode. When you preset 17, the upper limit amount is 99999.99.

Example



PLU/UPC programming

Your machine is equipped with 500 standard PLUs/UPCs. Your machine allows you to perform the following programming for each PLU/UPC.

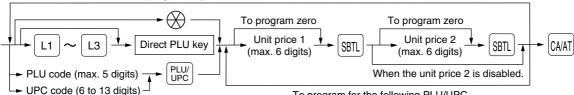
Note

- In this manual, the word "UPC" represents UPC (Universal Product Code) and the word "EAN" represents EAN (European Article Number).
- To review the UPC codes available to this register, please refer to the chapter 13 in "Job-Code-Based programming".

■ Unit price PGM 1 PGM 2

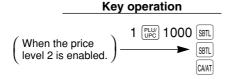


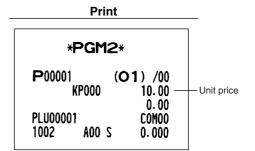
To program any PLU/UPC



To program for the following PLU/UPC

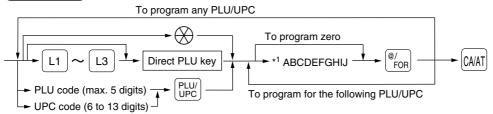
Example





■ Functional selection PGM 2

Procedure



*1 Item:		Selection:	Entry:
A	Commission group number		0 thru 9
В	Sign (plus/minus)	Plus	0
		Minus	1
С	Food stamp status	Ineligible	0
		Eligible	1
D	Tax 4 status	Non-taxable	0
		Taxable	1
E	Tax 3 status	Non-taxable	0
		Taxable	1
F	Tax 2 status	Non-taxable	0
		Taxable	1

¹ Item	:	Selection:	Entry:
G	Tax 1 status	Non-taxable	0
		Taxable	1
Н	Tare table number		1 thru 9
I	Scale entry	Inhibit	0
		Enable	1
		Compulsory	2
J	Type of unit price entry	Prohibit mode	0
		Open price only	1
		Preset price only	2
		Open price and preset price	3
		Delete mode	4

Note

Commission group number

A commission group number (0–9, 0: non commission) can be assigned to each department. **Sign (plus/minus)**

The function of every PLU/UPC varies according to the combination of its sign and the sign of its associated department as follows:

Sign Department PLU/UPC		Function of PLU/UPC	
_	_	Serves as a normal minus PLU/UPC	
+ Accepts store coupon entries, but not split-pricing er		Accepts store coupon entries, but not split-pricing entries	
- +		Not valid; not accepted	

Food stamp status

• Assign a food stamp status (food stamp eligible or food stamp ineligible) to each PLU/UPC.

Tax status (taxable 1 thru 4/non-taxable)

- When an entry of a taxable PLU/UPC is made in a transaction, tax is automatically computed according to the associated tax table or rate.
- Tax 4 is prohibited if you use the food stamp function.

Tare table number

Tare table number associated with scale entry (1 thru 9).

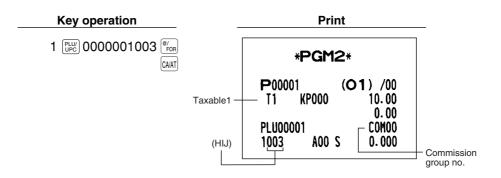
Scale entry

Program a PLU/UPC for scale entry when your store requires items to be sold by weight and are placed on a scale connected to the register.

Type of unit price entry

You may select one of the following four types of unit price entry for each PLU/UPC.

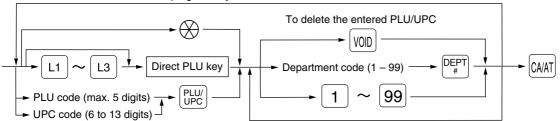
- Open price and preset price (for only PLU)
- · Preset price only
- Open price only (for only PLU)
- Prohibit mode: Prohibits the entry of any assigned PLU/UPC code.
- Delete mode: Deletes data programmed for each PLU/UPC.



■ PLU/UPC assignment to department PGM 1 PGM 2

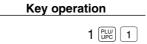
Procedure

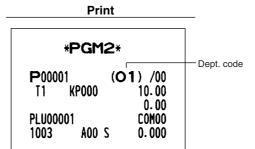
To program any PLU/UPC



To program for the following PLU/UPC

Example



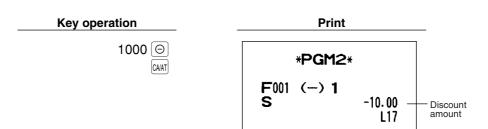


4 Programming for discount keys ()

■ Discount amount PGM 1 PGM 2

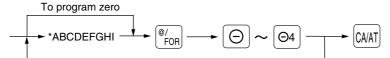
Procedure





■ High amount lockout (HALO), sign (+/-), vendor/store coupon selection, food stamp status and tax status PGM 2

Procedure



To program any coupon function

Item	:	Selection:	Entry:
A	Food stamp status	Ineligible	0
		Eligible	1
В	Tax 4 status	Non-taxable	0
		Taxable	1
С	Tax 3 status	Non-taxable	0
		Taxable	1
D	Tax 2 status	Non-taxable	0
		Taxable	1
Е	Tax 1 status	Non-taxable	0
		Taxable	1
F	Sign (+/-)	Plus	0
		Minus	1
G	Vendor/store coupon selection	Vendor coupon (subtotal ⊝)	0
		Store coupon (item ⊝)	1
Н	Significant digit for HALO		1 thru 9
ı	Number of zeros to follow the signif	ficant digit for HALO	0 thru 7

Note

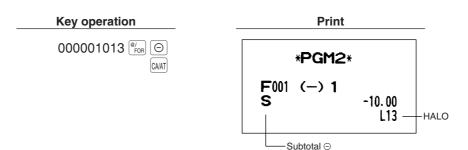
Tax status (taxable 1 thru 4/non-taxable)

Tax 4 is prohibited if you use the food stamp function.

HALO (High amount lockout)

"HI" is the same as $\mathbf{H} \times 10^{1}$.

For example, presetting 14 (\$100.00) here means that amount entries of up to \$100.00 are allowed in the REG mode. When you preset 17, however, the upper limit amount is 99999.99. When you preset 00, the open amount entry is prohibited.



5 Programming for percent keys (%)

■ Percent rate PGM 1 PGM 2

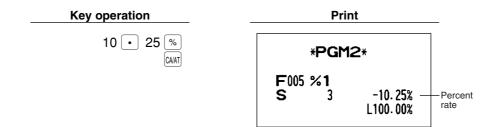
Procedure



* Rate: Percent rate: 0.00 - 100.00

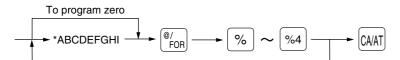
Note You must use a decimal point key when setting percentage rates that are fractional.

Example



■ Sign (+/-), %item/%subtotal selection, food stamp status and tax status

Procedure



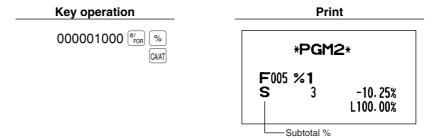
Item	:	Selection:	Entry:
A	Food stamp status	Ineligible	0
		Eligible	1
В	Tax 4 status	Non-taxable	0
		Taxable	1
С	Tax 3 status	Non-taxable	0
		Taxable	1
D	Tax 2 status	Non-taxable	0
		Taxable	1
E	Tax 1 status	Non-taxable	0
		Taxable	1
F	Sign (+/-)	Plus	0
		Minus	1
G	%item/%subtotal selection	% for subtotal	0
		% for item	1
Н	Always enter 0.		0
ī	Always enter 0.		0

Note Tax 4

Tax status (taxable 1 thru 4/non-taxable)

Tax 4 is prohibited if you use the food stamp function.

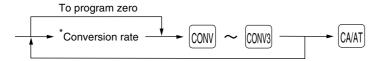
Example



6 Programming for conversion keys ((()))

■ Currency conversion rate PGM 1 PGM 2

Procedure



* Conversion rate: 0.0000 - 9999.9999

Note You must use a decimal point key when setting conversion rates that are fractional.



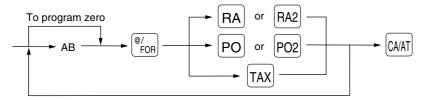
7 Programming for the RA, PO, and TAX keys

■ High amount lockout (HALO) PGM 2

The HALO limit effects REG mode operations but can be overridden in the MGR mode.

The HALO limit is represented by two figures as follows:

Procedure



"AB" is the same as $\mathbf{A} \times 10^{\mathbf{B}}$.

A: Significant digit (0 through 9)

B: Number of zeros to follow significant digit: (for RA or PO: 0 thru 9), (for manual tax: 0 thru 7)

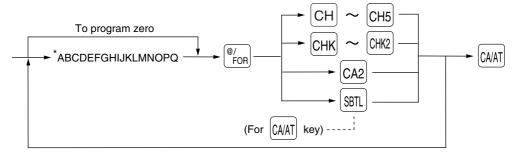
Example



8 Programming for the CAAT, CA2, CH, and CHK keys

■ High amount lockout (HALO) and functional selection PGM 2

Procedure



Item:		Selection:	Entry:
Α	CAT transaction	Non-compulsory	0
		Compulsory	1
В	CAT action	POST-AUTH	0
		DIAL	1
С	CAT type	CREDIT	0
		DEBIT	1
		CHECK	2
D	Card number printing	Yes	0
		No	1
Ε	Card number print format	Partial (printing only part of the card number)	0
		Full (printing the entire card number)	1
F	CAT signature line print	Yes	0
		No	1
G	CAT expiration printing	Yes	0
		No	1
Н	Number of CAT authorization receipt		0 thru 9
ı	Bill (slip) printing	Non-compulsory	0
		Compulsory	1
J	Footer printing on receipt	No	0
		Yes	1
K	Non-add code entry	Non-compulsory	0
		Compulsory	1
L	Change enable (over tender enable)	Enable	0
		Disable	1
M	Validation printing	Non-compulsory	0
		Compulsory	1
N	Drawer opening	Yes	0
		No	1
0	Amount tendered operation	Optional amount tendered for cash or check	0
		Inhibit amount tendered for charge	0
		Compulsory amount tendered	1
Р	Significant digit for HALO		0 thru 9
Q	Number of zeros to follow the significa	nt digit for HALO	0 thru 8

Note

HALO (High amount lockout)

"PQ" is the same as $P \times 10^{\circ}$.

For example, presetting 13 (\$10.00) here means that amount entries of up to \$10.00 are allowed in the REG mode. When you preset 18, however, the upper limit amount is 999999.99.



9 Programming for the automatic tax calculation function

Your machine has an automatic tax calculation feature which allows you to program four tax tables to avoid calculating incorrect tax amounts.

Automatic tax calculations require you to program, in addition to the tax table, the tax status of each pertinent department, PLU, and function key.

■ The tax table (applicable to the add-on tax) PGM 2

Sample tax table

New Jersey tax table: 6%

	Range of sales amount		
Taxes	Minimum breakpoi	nt I	Maximum breakpoint
.00	.01	to	.10
.01 — T	.11 — Q	to	.22
.02	.23	to	.38
.03	.39	to	.56
.04	.57	to	.72
.05	.73	to	.88
.06	.89	to	1.10
.07	1.11 — M1	to	1.22
.08	1.23	to	1.38
.09	1.39	to	1.56
.10	1.57	to	1.72
.11	1.73	to	1.88
.12	1.89	to	2.10
.13	2.11 — M2	to	2.22

A: Difference between the minimum breakpoint and the next one (¢)		
– 10 (0.11 - 0.01)	B: Non-cyclic	
12 (0.23 - 0.11)		
16 (0.39 - 0.23)		
18 (0.57 - 0.39)	√ C. C. die 1	
16 (0.73 - 0.57)	C: Cyclic-1	
16 (0.89 - 0.73)		
22 (1.11 - 0.89)		
12 (1.23 - 1.11)		
16 (1.39 - 1.23)		
18 (1.57 - 1.39)	V D: Cyclic-2	
16 (1.73 - 1.57)	D. Oyclic-2 	
16 (1.89 - 1.73)		
22 (2.11 - 1.89)		

To program a tax table, first make a table like the right table shown above.

From the tax table, calculate the differences between a minimum break point and the next one (A). Then, from the differences, find irregular cycles (B) and regular cycles (C and D). These cycles will show you the following items necessary to program the tax table:

T: The tax amount collected on the minimum taxable amount (Q)

Q: The minimum taxable amount

M1: The maximum value of the minimum breakpoint on a regular cycle (C).

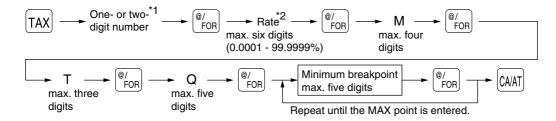
We call this point "MAX point."

M2: The maximum value of the minimum breakpoint on a regular cycle (D).

We call this point "MAX point."

M: Range of the minimum breakpoint on a regular cycle: difference between Q and M1 or between M1 and M2

Procedure



*1 **First figure:** The first figure to be entered depends upon whether the difference between a minimum breakpoint to be entered and the preceding minimum breakpoint is not less than \$1.00 or more than 99¢. When the difference is not less than \$1.00, enter "1," and when it is not more than 99¢, enter "0" or nothing.

Second figure: The second figure depends upon whether your tax table is to be programmed as tax table 1, 2, 3 or 4. When your tax table is to be programmed as tax table 1, enter "1"; when it is to be programmed as tax table 2, enter "2"; when it is to be programmed as tax table 3, enter "3"; and when it is to be programmed as tax table 4, enter "4".

*2 If the rate is fractional (e.g. 4-3/8%), then the fractional portion (3/8) would be converted to its decimal equivalent (i.e. .375) and the resulting rate of 4.375 would be entered. Note that the nominal rate (R) is generally indicated on the tax table.

Note

If you make an incorrect entry before entering the M in programming a tax table, cancel it with the LL key; and if you make an error after entering the M, cancel it with the LAW. Then program again from the beginning correctly.

• Limitations to the entry of minimum breakpoints

Your register can support a tax table consisting of no more than 72 breakpoints. (The number of breakpoints is 36 maximum when the breakpoint difference is \$1.00 or more.) If the number of breakpoints exceeds the register's table capacity, then the manual entry approach should be used.

Example

Programming the sample tax table shown on the previous page as tax table 1

	Key operation		
		TAX	
		1 @/ FOR	
Tax rate	, →	6 [@] / _{FOR}	
M	\rightarrow	100 @/	
Τ	\rightarrow	1 @/ FOR	
Q	\rightarrow	11 @/ FOR	
		23 POR	
The first	t	39 @/ FOR	
cyclic portion		57 @/ FOR	
portion		73 @/ FOR	
M1		89 @/ FOR	
(MAX po	oint)→	111 @/ FOR	
` '	,	(CA/AT)	

	Print			
	*PGM2	*		
TAX1	1 2 3 4 5 6 7	6.0000% / 1.00 0.11 0.23 0.39 0.57 0.73 0.89 1.11		

Note

You do not need to enter the trailing zeros of the tax rate (after the decimal point) but you do need to enter the decimal point for fractions.

• If the tax is not provided for every cent, modify the tax table by setting the tax for every cent in the following way.

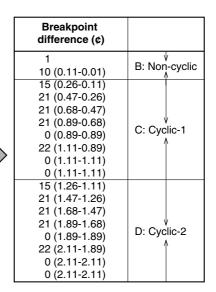
When setting the tax, consider the minimum breakpoint corresponding to unprovided tax to be the same as the one corresponding to the tax provided on a large amount.

Sample tax table Example 8%

Tax	Minimum breakpoint
.00	.01
.01	.11
.02	.26
.03	.47
.04	.68
.06	.89
.09	1.11
.10	1.26
.11	1.47
.12	1.68
.14	1.89
.17	2.11

Modification of the left tax table

Tax	Minimum breakpoint
.00	.01
.01 — T	.11 —Q
.02	.26
.03	.47
.04	.68
.05	.89
.06	.89
.07	1.11 — M1
.08	1.11
.09	1.11
.10	1.26
.11	1.47
.12	1.68
.13	1.89
.14	1.89
.15	2.11 — M2
.16	2.11
.17	2.11



From the modified tax table above;

Rate = 8(%), T = 0.01 = 1¢, Q = 0.11 = 11¢, M1 = 1.11, M2 = 1.11, M = 100

Job-Code-Based Programming

This section illustrates how to program items using job codes. Using job codes allows you to program a wide variety of items in comparison with direct programming.

Start this programming by entering a corresponding job code as shown below.

All the items which can be programmed by the job-code-based programming are listed on this page and the following, and those which can also be programmed by the direct programming are marked with the symbol " | Direct | " that follows job codes.

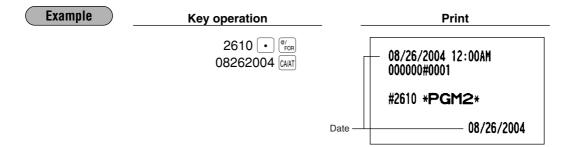
1 Setting the date and time

■ Setting the date PGM 2 2610 Direct

Enter the month (one or two digits), day (two digits), and year (four digits: 2000 - 2099) in this sequence.

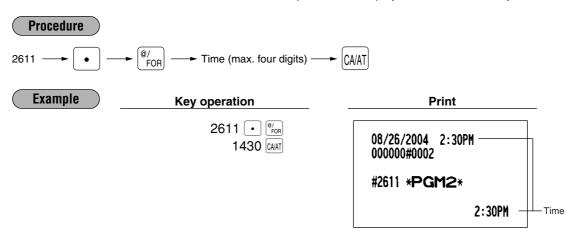


2610
$$\longrightarrow$$
 \bullet Date (seven or eight digits) \longrightarrow \bullet



■ Setting the time PGM 2 2611 Direct

Set the time using the military time (24-hour) system. For example, when the time is set to 2:30 AM, enter 230; and when it is set to 2:30 PM, enter 1430. The time is printed and displayed on the real time system.

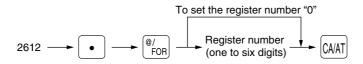


2 Setting the register and consecutive numbers

■ Setting the register number PGM 2 2612

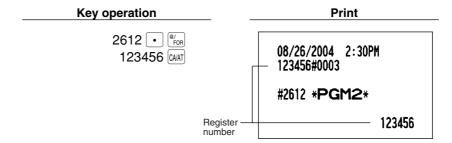
When your store has two or more registers, it is practical to set separate register numbers for their identification. You may set them with a maximum of six digits.

Procedure



Example

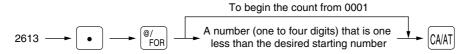
To set the register number as "123456"



■ Setting the consecutive number PGM 2 2613

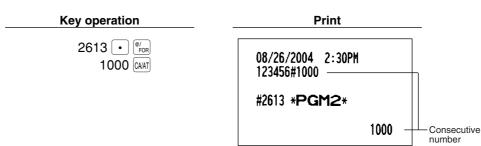
The consecutive number is increased by one each time a receipt is issued. Enter a number (one to four digits) that is one less than the desired starting number.

Procedure



Example

Setting the count start number as "1001"



3 Programming for the automatic tax calculation function

Your machine has an automatic tax calculation feature which allows you to program four tax tables or rates to avoid calculating incorrect tax amounts.

Automatic tax calculations require you to program, in addition to the tax table and rate, the tax status of each pertinent department, PLU, and function key.

The tax table (applicable to the add-on tax) PGM 2 2710 Direct Sample tax table

New Jersey tax table: 6%

	Range of sales amount			
Taxes	Minimum breakpoint		Maximum breakpoin	
.00	.01	to	.10	
.01 — T	.11 — Q	to	.22	
.02	.23	to	.38	
.03	.39	to	.56	
.04	.57	to	.72	
.05	.73	to	.88	
.06	.89	to	1.10	
.07	1.11 — M1	to	1.22	
.08	1.23	to	1.38	
.09	1.39	to	1.56	
.10	1.57	to	1.72	
.11	1.73	to	1.88	
.12	1.89	to	2.10	
.13	2.11 — M2	to	2.22	

	A: Difference between the minimum breakpoint and the next one (¢)				
	_	B: Non-cyclic			
	10 (0.11 - 0.01)	D. Non-cyclic			
	12 (0.23 - 0.11)				
	16 (0.39 - 0.23)				
>	18 (0.57 - 0.39)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
	16 (0.73 - 0.57)	C: Cyclic-1			
	16 (0.89 - 0.73)				
	22 (1.11 - 0.89)				
	12 (1.23 - 1.11)				
	16 (1.39 - 1.23)				
	18 (1.57 - 1.39)				
	16 (1.73 - 1.57)	D: Cyclic-2			
	16 (1.89 - 1.73)				
	22 (2.11 - 1.89)				

To program a tax table, first make a table like the right table shown above.

From the tax table, calculate the differences between a minimum break point and the next one (A). Then, from the differences, find irregular cycles (B) and regular cycles (C and D). These cycles will show you the following items necessary to program the tax table:

T: The tax amount collected on the minimum taxable amount (Q)

Q: The minimum taxable amount

M1: The maximum value of the minimum breakpoint on a regular cycle (C).

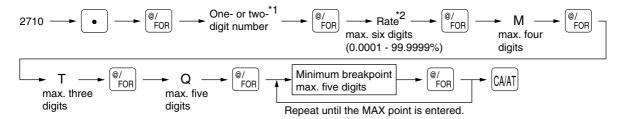
We call this point "MAX point."

M2: The maximum value of the minimum breakpoint on a regular cycle (D).

We call this point "MAX point."

M: Range of the minimum breakpoint on a regular cycle: difference between Q and M1 or between M1 and

Procedure



*1 **First figure:** The first figure to be entered depends upon whether the difference between a minimum breakpoint to be entered and the preceding minimum breakpoint is not less than \$1.00 or more than 99¢. When the difference is not less than \$1.00, enter "1," and when it is not more than 99¢, enter "0" or nothing.

Second figure: The second figure depends upon whether your tax table is to be programmed as tax table 1, 2, 3 or 4. When your tax table is to be programmed as tax table 1, enter "1"; when it is to be programmed as tax table 2, enter "2"; when it is to be programmed as tax table 3, enter "3"; and when it is to be programmed as tax table 4, enter "4".

*2 If the rate is fractional (e.g. 4-3/8%), then the fractional portion (3/8) would be converted to its decimal equivalent (i.e. .375) and the resulting rate of 4.375 would be entered. Note that the nominal rate (R) is generally indicated on the tax table.

Note

If you make an incorrect entry before entering the M in programming a tax table, cancel it with the Lkey; and if you make an error after entering the M, cancel it with the Lkey. Then program again from the beginning correctly.

• Limitations to the entry of minimum breakpoints

Your register can support a tax table consisting of no more than 72 breakpoints. (The number of breakpoints is 36 maximum when the breakpoint difference is \$1.00 or more.) If the number of breakpoints exceeds the register's table capacity, then the manual entry approach should be used.

Example

Programming the sample tax table shown on the previous page as tax table 1

Ke	Key operation				
	2710 • @/ FOR				
	1 (e/ FOR)				
Tax rate -	→ 6 ®/ FOR				
М –	→ 100 [@] / _{FOR}				
T –	1 @/ FOR				
Q -	→ 11 ^{@/} FOR				
The first	23 POR				
The first cyclic	39 [@] / _{FOR}				
portion	57 @/				
po	73 ^{@/} FOR				
M1	89 @/				
(MAX point	t)→ [111 [@] / _{FOR}				
	CA/AT				

#2710 * F	PGM2	*
TAX1	1 2 3 4 5 6 7	6.0000% / 1.00 0.11 0.23 0.39 0.57 0.73 0.89

Note

You do not need to enter the trailing zeros of the tax rate (after the decimal point) but you do need to enter the decimal point for fractions.

• If the tax is not provided for every cent, modify the tax table by setting the tax for every cent in the following way.

When setting the tax, consider the minimum breakpoint corresponding to unprovided tax to be the same as the one corresponding to the tax provided on a large amount.

Sample tax table Example 8%

Tax	Minimum breakpoint
.00	.01
.01	.11
.02	.26
.03	.47
.04	.68
.06	.89
.09	1.11
.10	1.26
.11	1.47
.12	1.68
.14	1.89
.17	2.11

Modification of the left tax table

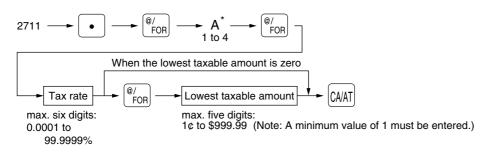
Tax	Minimum breakpoint		Breakpoint difference (¢)		
.00 .01 — T	.01 .11 ⊢Q		1 10 (0.11-0.01)	B: Non-cyclic	
.02	.26		15 (0.26-0.11)		
.03	.47		21 (0.47-0.26)		
.04	.68		21 (0.68-0.47)		
.05	.89		21 (0.89-0.68)	C. Cualia 1	
.06	.89		0 (0.89-0.89)	C: Cyclic-1	
.07	1.11 — M1		22 (1.11-0.89)		
.08	1.11			0 (1.11-1.11)	
.09	1.11			0 (1.11-1.11)	
.10	1.26		15 (1.26-1.11)		
.11	1.47		21 (1.47-1.26)		
.12	1.68		21 (1.68-1.47)		
.13	1.89		21 (1.89-1.68)	D. C	
.14	1.89		0 (1.89-1.89)	D: Cyclic-2	
.15	2.11 — M2		22 (2.11-1.89)	1 1	
.16	2.11		0 (2.11-2.11)		
.17	2.11		0 (2.11-2.11)		

From the modified tax table above;

Rate = 8(%), T = 0.01 = 1¢, Q = 0.11 = 11¢, M1 = 1.11, M2 = 1.11, M = 100

The tax rate PGM 2 2711

Procedure



*A: When you program a tax rate as tax rate 1, enter "1"; when you program it as tax rate 2, enter "2"; when you program it as tax rate 3, enter "3"; and when you program it as tax rate 4, enter "4".

Example

Programming the tax rate 4% as tax rate 2 with tax exempt as 12¢

Key operation

2711 • 6/ FOR 2 6/ FOR 4 6/ FOR 12 CAAT

Print

#2711 ***PGM2***
TAX2 4. 0000%
0. 12

Note

- If you make an incorrect entry before pressing the third [%] key in programming a tax rate, cancel it with the CL key; and if you make an error after pressing the third [%] key, cancel it with the SETL key. Then program again from the beginning correctly.
- You do not need to enter the trailing zeros of the tax rate (after the decimal point), but you do need to enter the decimal for fractions.

■ Doughnut tax exempt (for the Canadian tax system) PGM 2 2715

Procedure



Note

This option is available only when your register has been set up with the Canadian tax system.

Example

To program the q'ty "6"



2715 • 6 CAAT

Print

#2715 ***PGM2***

EXPT COUNT

6

4 Programming for departments

Your machine is equipped with 20 (ER-A410)/10 (ER-A420) standard departments and a maximum of 99 departments. Your machine allows you to perform the following programming for each department.

Functional programming 1 PGM 2 2110 Direct

You can set each department for:

Item validation printing

If item entries must be validated, program corresponding departments for compulsory validation printing.

Tare table number

Tare table number associated with scale entry (1 thru 9)

Scale entry

Program a department for scale entry allowed when your store needs automatic scale entries.

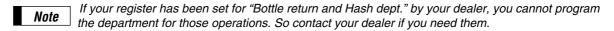
Registration type

- If an entry of a department programmed for SICS is made first, the scale will be finalized as soon as the department key is pressed. If the entry is made after entering a department not programmed for SICS, the sale will not be finalized until the way key is pressed.
- Whenever a sale is made to a department programmed for SIF, the sale is finalized as soon as the department key is pressed.

Department type

You may program each department as one of the following three types.

- Bottle Return (BR)
- · Hash department
 - A hash department is used to enter the amount of a special "sale", such as a gift certificate sale or for the receipt of payment for utility bills, theatre tickets, etc., i.e. "non-sales" registrations. Any amounts entered in this department are not added to the grand total except tax amounts.
- · Normal department



Type of unit price entry

You may select one of the following four types of unit price entry for each department.

- · Open and preset
- · Preset only
- · Open only
- Inhibit department key

Procedure

To program any dept.

To program zero

POR

To program zero

*ABCDEF

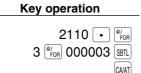
SBTL

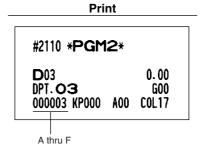
To program the next sequential dept.

Item:		Selection:	Entry:
A	Item validation printing	Non-compulsory	0
		Compulsory	1
В	Tare table number		1 thru 9
С	Scale entry	Inhibit	0
		Enable	1
		Compulsory	2
D	Registration type	Normal	0
		SICS (Single Item Cash Sale)	1
		SIF (Single Item Finalization)	2
E	Department type	Normal department	0
		Hash department	1
		Bottle return department	2
F	Type of unit price entry	Inhibit department key	0
		Open only	1
		Preset only	2
		Open and preset	3

Example

Programming for department 3 Enter ABCDEF=000003 for department 3.





■ Functional programming 2 PGM 2 2111 Direct

Sign (plus/minus)

- Assign a plus sign to departments for normal sales transactions.
- Assign a minus sign to departments for minus transactions.

Food stamp status

Assign a food stamp status (food stamp eligible or food stamp ineligible) to each department.

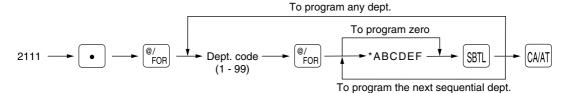
Tax status (taxable 1 thru 4/non-taxable)

• When an entry of a taxable department is made in a transaction, tax is automatically computed according to the associated tax table or rate.

Note

Tax 4 is prohibited if you use the food stamp function.

Procedure

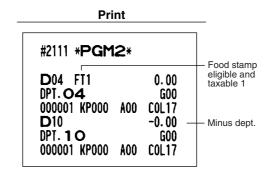


Iten	ո։	Selection:	Entry:	
Α	Sign (+/-)	Plus	0	
		Minus	1	
В	Food stamp status	Ineligible	0	
		Eligible	1	
С	Tax 4 status	Non-taxable	0	
		Taxable	1	
D	Tax 3 status	Non-taxable	0	
		Taxable	1	
E	Tax 2 status	Non-taxable	0	
		Taxable	1	
F	Tax 1 status	Non-taxable	0	
		Taxable	1	

Example

Programming for department 4 and 10 Enter ABCDEF=010001 for department 4. Enter ABCDEF=100000 for department 10.

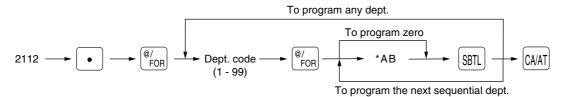
Example 100000 Sequence 1000000 Sequence 100000 Sequence 100000 Sequence 100000 Sequence 1000000 Sequence 10000000 Sequence 1000000 Sequence 10000000 Sequence 1000000 Sequence 100000 Sequence 1000000 Sequence 100000 Seq



A limit amount (HALO) of entry PGM 2 2112 Direct

You can set amounts (HALO: High Amount Lockout) for each department. The limit is effective for the REG mode operations and can be overridden in the MGR mode. The HALO limit is represented by two figures as follows:

Procedure

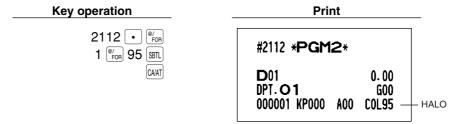


- "AB" is the same as $\mathbf{A} \times 10^{\mathbf{B}}$.
 - A: Significant digit (0 through 9)
 - B: Number of zeros to follow significant digit (0 through 7)

For example, presetting 13 (\$10.00) here means that amount entries of up to \$10.00 are allowed in the REG mode. When you preset 17, however, the upper limit amount is 99999.99.

Example

Programming HALO limit of 9000.00 (95) for dept. 1

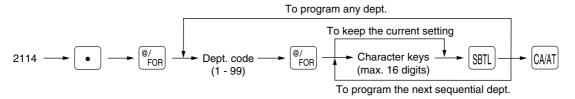


■ Alphanumeric characters PGM 2 2114

You can program a maximum of 16 characters (item label) for each department.

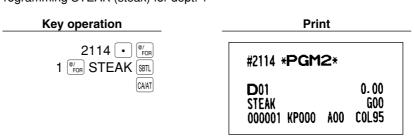
Select the characters you want to program, referring to section "2 How to program alphanumeric characters" in chapter "PRIOR TO PROGRAMMING".

Procedure



Example Pro

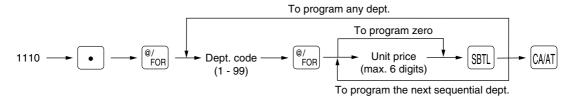
Programming STEAK (steak) for dept. 1



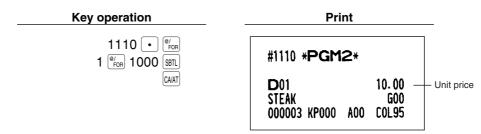
■ Unit price PGM 1 PGM 2 1110 Direct

You can program unit prices up to a maximum of six digits (\$9999.99). Even if a department is not programmed to allow the entry of preset unit prices in functional programming 1 (job #2110), the department is automatically changed to allow the entry of preset unit prices by this programming entry.

Procedure



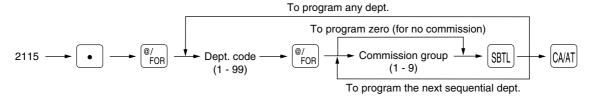
Example Programming \$10.00 for dept. 1



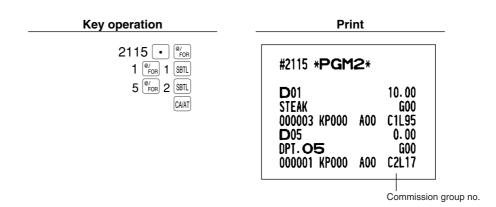
■ Commission group assignment PGM 2 2115 Direct

Your machine allows you to assign a commission group (1-9) to each department.

Procedure



Example Programming commission group 1 for dept. 1 and commission group 2 for dept. 5

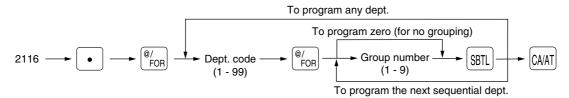


Group number PGM 2 2116 Direct

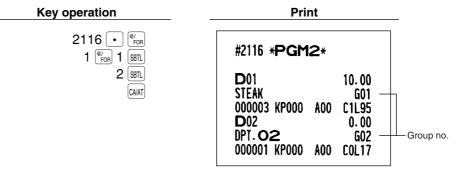
You can assign departments to a maximum of 9 groups (1 thru 9).

This programming enables you to take the group department sales reports.

Procedure



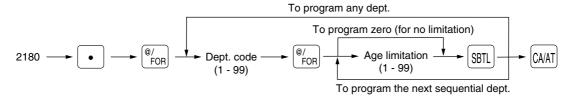
Example Programming the group number 1 for dept. 1 and the group number 2 for dept. 2



■ Age limitation PGM 2 2180

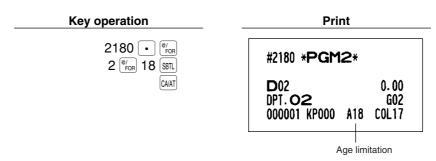
If an item sold is not allowed to be sold to certain aged persons by law, program the age limitation for the corresponding department.

Procedure



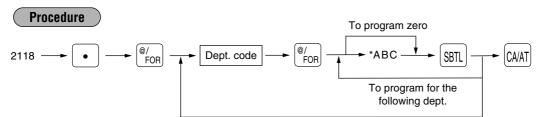
NoteWhen a department for which a setting other than zero (1 to 99) has been programmed as the age limitation is entered, the birthday entry will be enforced.

Example Programming the age limitation "18" for dept. 2

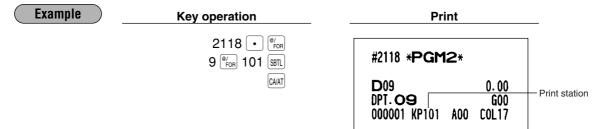


■ Print station assignment PGM 2 2118

When you use a remote printer, please consult your dealer.



* Ite	m:	Selection:	Entry:
A	Remote printer 1 output	Output	1
		Not output	0
В	Remote printer 2 output	Output	1
		Not output	0
C	Printing on the chit receipt	Yes	1
		No	0

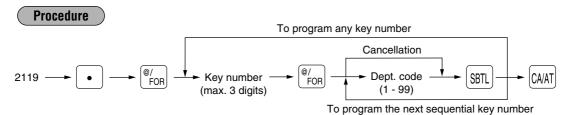


■ Department key positioning PGM 2 2119

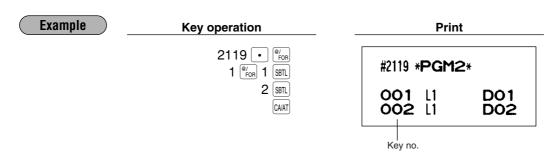
You can assign a department code to each key position. Each key position has a corresponding key number. Departments may be freely selected for the number of department keys and their positions.

To assign the department to a key position, select the key number of the position.

For key number positions, refer to section "3 Standard key number layout" in chapter "KEYBOARD".



Note The key number placement is determined by your local authorized SHARP dealer.



5 PLU/UPC programming

Your machine has two kinds of PLU registration methods.

Direct PLU registration: Accomplished by pressing item key (direct PLU key) directly.

Indirect PLU registration: Accomplished by making an entry of PLU code and pressing the [ww] key.

In this manual, the word "UPC" represents UPC (Universal Product Code) and the word "EAN" represents EAN (European Article Number).

With regard to the UPC codes available to this register, please refer to the chapter 13 in "Job-Code-Based programming".

Each PLU/UPC requires you to program the following:

PLU/UPC code (PLU: max. 5 digits, UPC: 6 to 13 digits)

Associated department

When a PLU/UPC is associated with a department, the following functions of the PLU/UPC depend on the programming for the corresponding department.

- Type (Bottle return/Hash/Normal)
- Single item cash sale/Single item finalization
- HALO (for "Open" type)
- · Item validation print compulsory/non-compulsory

Unit price (max. six digits)

You will usually have unit prices programmed for individual PLUs/UPCs as PLU/UPC unit prices.

If you program unit price "0.00" for a PLU/UPC, you can enter only the selling quantity into the PLU/UPC, i.e. the PLU/UPC can be used only as a counter.

Base quantity for split-pricing entries – two digits

Program a base quantity for each PLU/UPC dedicated to split-pricing entries.

Type of unit price entry

- If "Preset only" is selected, individual PLU/UPC entries can be made by entering the assigned code and pressing the without any PLU code entry, or by scanning the UPC code).
- If "Open only" is selected, the we key must be pressed after the price entry followed by the PLU code and the entry (, or the unit price must be entered before pressing a direct PLU key).
- If "Open and preset" is selected, the entries in both "Preset" and "Open" types are available.
- If the delete mode is selected, the corresponding program data for each PLU/UPC is deleted.
- If the prohibit mode is selected, the PLU/UPC code cannot be entered. This mode does not clear the PLU/UPC program data.

Sign (+/-)

The function of every PLU/UPC varies according to the combination of its sign and its associate department's sign as follows:

Sign		Function of PLU/UPC	
Dept.	PLU/UPC	Function of PEO/OPC	
+	+	Serves as a normal plus PLU/UPC	
-	_	Serves as a normal minus PLU/UPC	
+	_	Accepts store coupon entries, but not split-pricing entries.	
_	+	Not valid; not accepted.	

Food stamp status and tax status (taxable 1, 2, 3 and/or 4, non-taxable)

Item label (max. 16 characters)

Tare table number and scale entry

Age limitation

Commission group (1 to 9)

Mix-and-match table (max. 10 tables)

Set PLU (for only PLU)

You can link a maximum of 10 PLUs to a particular PLU.

Link PLU/UPC link

A PLU/UPC is able to link to any other PLU (e.g. bottle deposit). However, the number of links is a maximum of 5. Even if more than 5 PLUs are linked, the sixth or higher link is not actualized (ignored).

94Print station

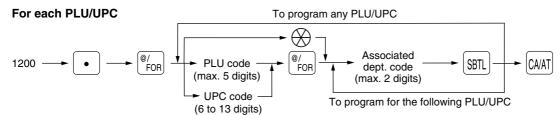
Delete period for non-accessed UPC codes Non-PLU code format PLU level assignment and direct PLU key positioning Stock quantity

Note

For some items, you can program in two ways: programming an individual PLU code and for a range of sequential PLU codes. The procedure marked "For each PLU" shows individual PLU programming. The procedure marked "For a range of PLUs" shows sequential range PLU programming.

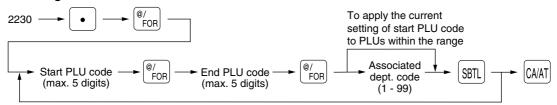
Department assignment PGM 1 PGM 2 1200 2230 Direct

Procedure



Note As soon as the programming is completed for one PLU/UPC, the next code appears in the display.

For a range of PLUs



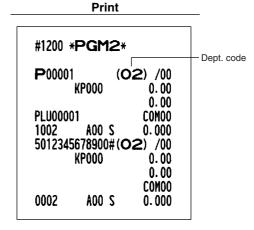
Example

Programming for PLU 1 and UPC 5012345678900 for "Associate department 2"

For each PLU/UPC

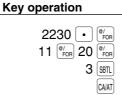
1200 • [®]/_{For} 1 [®]/_{For} 2 sst. 5012345678900 [®]/_{For} 2 sst.

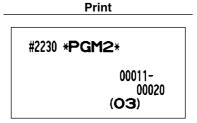
Key operation



Programming the PLU 11 thru 20 for "Associate department 3"

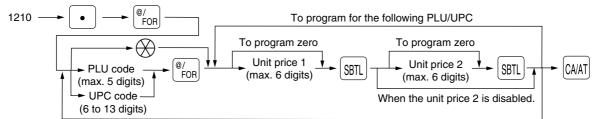
For a range of PLUs





■ Unit prices PGM 1 PGM 2 1210 Direct

Procedure



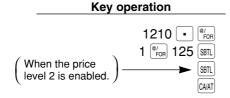
To program any PLU/UPC

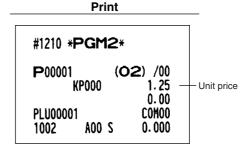
Note

The preset amount will work as the unit price for the "Preset" type and as the HALO amount for the "Open" type. In the case of the "Open" type, zero preset prevents amount entry and a 9999.99 preset is the maximum limitation. In the case of the "Preset" type zero and 9999.99 preset have no special meaning. (i.e. 0 amount preset is available.)

Example

Programming "\$1.25" for PLU 1



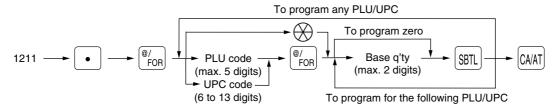


■ Base quantity PGM 1



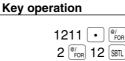


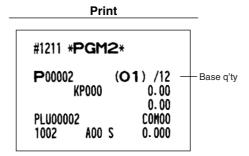
Procedure



Example

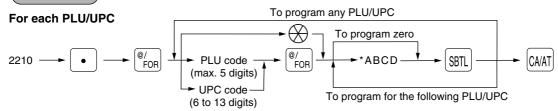
Programming "12" for PLU 2



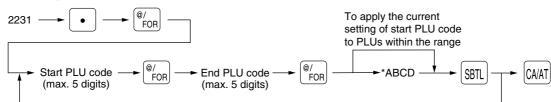


Type of unit price entry, delete method, tare table no. and scale entry PGM 2 2210 Direct

Procedure



For a range of PLUs



* Item:		Selection:	Entry:
Α	Delete method (for only UPC) (for PLU: fixed 1)	Inhibit to delete in non-accessed UPC deleting job (#105 in Z1 mode)	1
		Delete in non-accessed UPC deleting job (#105 in Z1 mode)	0
В	Tare table number		1 thru 9
С	Scale entry	Inhibit	0
		Enable	1
		Compulsory	2
D	Type of unit price entry	Prohibit mode	0
		Open price only (for only PLU)	1
		Preset price only	2
		Open price and preset price (for only PLU)	3
		Delete mode	4

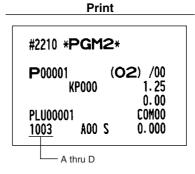
Example

To program BCD=003 for PLU1

For each PLU/UPC

Key operation

2210 • 6/ FOR 1 6/ FOR 003 SBTL



Programming the PLU 11 thru 20 for "Open and preset price"

For a range of PLUs

2231 • [©]/_{FOR}
11 [©]/_{FOR} 20 [©]/_{FOR}
003 SSTL

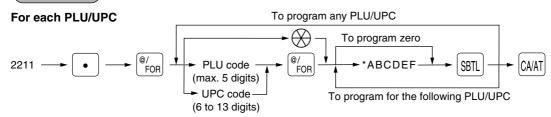
#2231 ***PGM2***

0001100020
1003

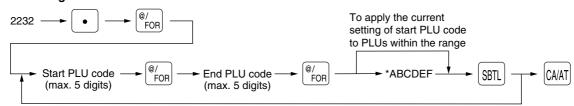
Print

■ Sign (+/-), food stamp status, and tax status PGM 2 2211 2232 Direct

Procedure



For a range of PLUs



Item	ı:	Selection:	Entry:	
Α	Sign (+/-)	Plus	0	
		Minus	1	
В	Food stamp status	Ineligible	0	
		Eligible	1	
С	Tax 4 status	Non-taxable	0	
		Taxable	1	
D	Tax 3 status	Non-taxable	0	
		Taxable	1	
E	Tax 2 status	Non-taxable	0	
		Taxable	1	
F	Tax 1 status	Non-taxable	0	
		Taxable	1	

Note

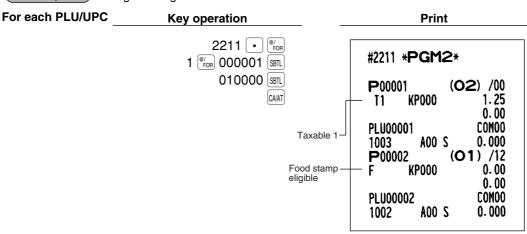
Tax status (taxable 1 thru 4/non-taxable)

Tax 4 is prohibited if you use the food stamp function.

A PLU/UPC not programmed for Tax 1 thru Tax 4 statuses is registered depending on the tax status of the department which the PLU/UPC belongs to.

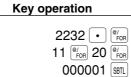
Example

Programming ABCDEF=000001 for PLU 1 and ABCDEF=010000 for PLU 2

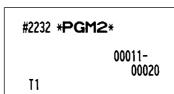


Programming the range PLU 11 thru 20 for ABCDEF=000001

For a range of PLUs



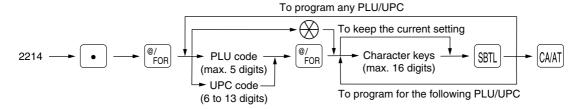
Print



■ Alphanumeric characters PGM 2 2214

You can program a maximum of 16 characters (item label) for each PLU/UPC. Select the characters you want to program, referring to section "2 How to program alphanumeric characters" in chapter "PRIOR TO PROGRAMMING".

Procedure

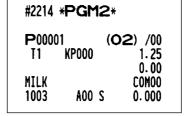


Example Programming MILK (milk) for PLU 1



2214 • POR MILK SBTL CA/AT

Print

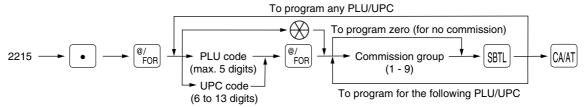


■ Assigning of PLUs/UPCs to commission groups PGM 2 2215 Direct

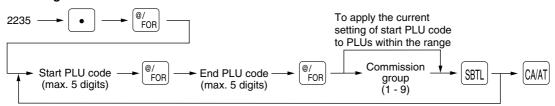
You can assign PLUs/UPCs to commission groups.

Procedure

For each PLU/UPC



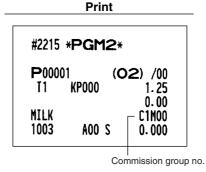
For a range of PLUs



Example Programming the commission group 1 for PLU 1

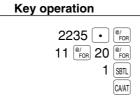
For each PLU/UPC Key operation

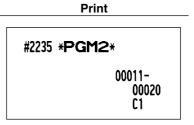
2215 • @/ FOR 1 SBTL CA/AT



Programming all of PLU 11 thru 20 for the commission group 1

For a range of PLUs



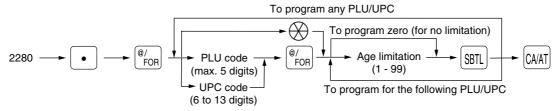


Age limitation PGM 1 PGM 2 2280 2236

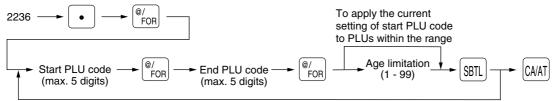
If an item sold is not allowed to be sold to certain aged persons by law, program the age limitation for the corresponding PLU/UPC.

Procedure

For each PLU/UPC



For a range of PLUs



When a PLU/UPC for which a setting other than zero (1 to 99) has been programmed as the age limitation is entered, the birthday entry will be enforced.

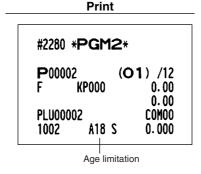
Example

Programming the age limitation "18" for PLU 2

Key operation

For each PLU/UPC

2280 • FOR 18 SBIL

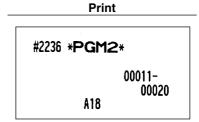


Programming the PLU 11 thru 20 for the age limitation "18"

For a range of PLUs

2236 • [®]/_{FOR} 11 [®]/_{FOR} 20 [®]/_{FOR}

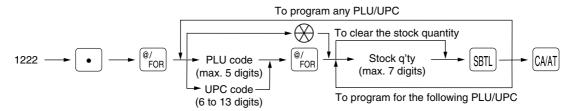
18 SBTL CA/AT



Stock quantity PGM 1 PGM 2 1222 1220 1221

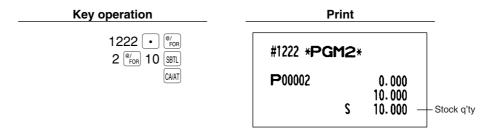
You can assign a stock quantity to each PLU/UPC code. (If you want to control a stock quantity, please consult your dealer.) When you assign it for the first time, follow the below procedure:

Procedure



Example

To program the stock quantity "10" for PLU 2

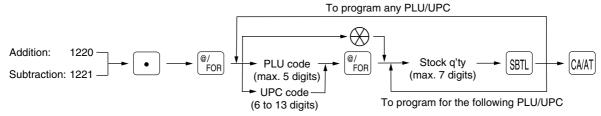


Note

- If you assign another stock quantity to the PLU/UPC code which you have assigned a stock quantity to, it will be overridden.
- You must use a decimal point () key when setting quantities that are fractional.

If you need to add or subtract a stock quantity, follow the below procedure:

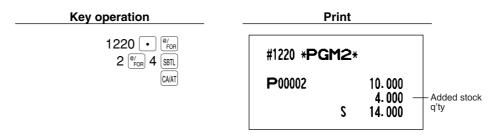
Procedure



Adding the stock quantity

Example

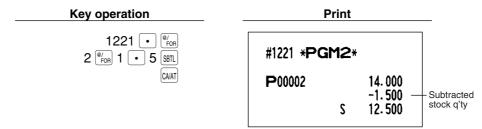
To add the stock quantity "4" to the current stock quantity "10" of PLU2



Subtracting the stock quantity

Example

To subtract the stock quantity "1.5" from the current stock quantity "14" of PLU 2

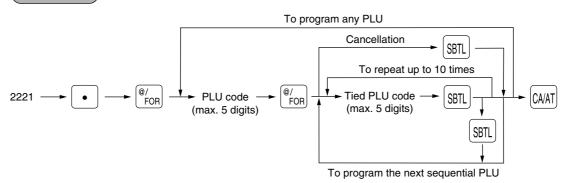


■ Set PLU

PGM 2

2221

Procedure



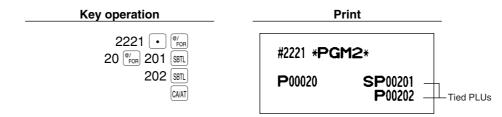
Note

PLU codes must have already been defined.

You can program a maximum of 15 set PLUs. A set PLU can be tied to a maximum of 10 PLUs.

Example

Programming the set PLU 20 (tied PLUs: PLU 201 and PLU 202)



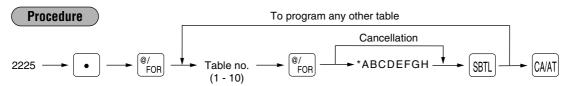
Mix-and-match table PGM 2 2217 2225

The mix-and-match table consists of the adjustment amount and the matching count for discount (satisfying the count of entered items). You can program a maximum of 10 mix-and-match tables. One table can be assigned maximum of 5 kind of items.

[Ex.] Mix-and-match table no. 1: matching count=3, adjustment amount \$7.00 Mix-and-match items of table no. 1: Item-A (\$2.30), Item-B (\$3.10), Item-C (\$2.50)

<sale< th=""><th>e 1></th><th><sal< th=""><th>e 2></th><th></th><th><sale< th=""><th>3></th><th></th></sale<></th></sal<></th></sale<>	e 1>	<sal< th=""><th>e 2></th><th></th><th><sale< th=""><th>3></th><th></th></sale<></th></sal<>	e 2>		<sale< th=""><th>3></th><th></th></sale<>	3>	
Item-A	\$2.30	Item-C	\$2.50		Item-A	\$2.30	
Item-A	\$2.30	Item-C	\$2.50		Item-B	\$3.10	
Item-B	\$3.10	Item-C	\$2.50		Item-C	\$2.50	
Subtotal	\$7.70	Subtotal	\$7.50		Subtotal	\$7.90	_
(Discount	\$0.70)	(Discount	\$0.50)		(Discount	\$0.90)	
Total	\$7.00	Total	\$7.00	_	Total	\$7.00	-

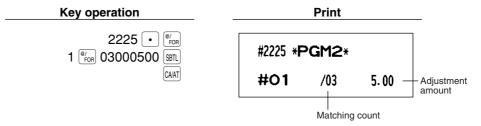
Programming of matching count and adjustment amount



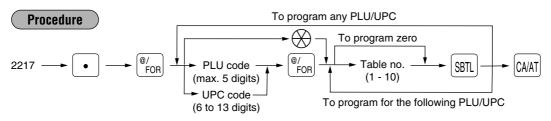
* AB: Matching count (1 - 99)

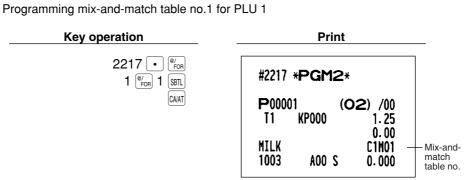
CDEFGH: Adjustment amount (max. 6 digits)

Example Programming mix-and-match table no.1 (matching count=3, adjustment amount \$5.00)



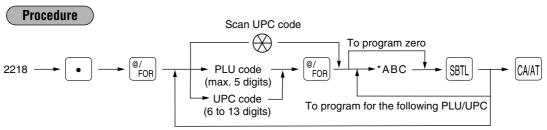
Assigning items to the mix-and-match tables





■ Print station to PLU/UPC assignment PGM 2 2218

When you use a remote printer, consult your dealer.

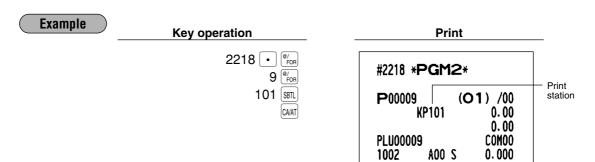


To program any PLU/UPC

* Item:		Selection:	Entry:
A	Remote printer 1 output	Output	1
		Not output	0
В	Remote printer 2 output	Output	1
		Not output	0
С	Printing on the chit receipt	Yes	1
		No	0

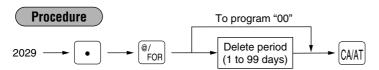
Note

PLU/UPC code must have been already defined.

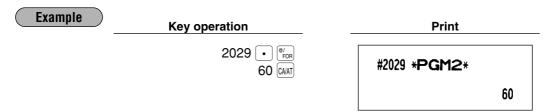


■ Delete period for non-accessed UPC codes PGM 2 2029

You can delete the UPC codes which have not been accessed during the period you set in this program when you execute the job #105 in Z1 mode when you set "Delete in non-accessed UPC deleting job" in the UPC delete method (#2210).

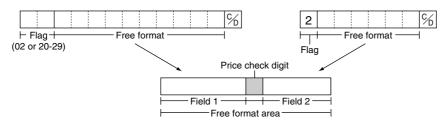


* When you select "00" for the period, no UPC code is deleted by the non-accessed UPC deleting job.

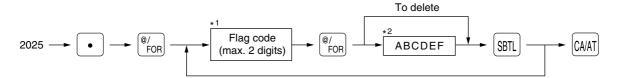


■ Programming Non-PLU code format PGM 2 2025

The register allows you to specify the Non-PLU code format (flag code: 2, 02, 20 -29). The format data is as follows:



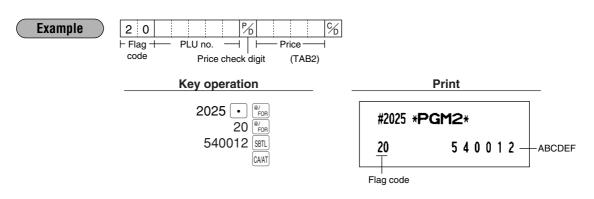
Procedure



*1 Flag code: 2, 02, 20 - 29

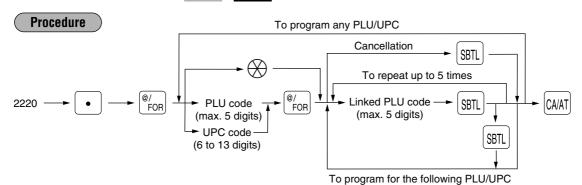
Item:		Selection:	Entry:
Α	Length of field 1 (number of digits)		0 - 9
В	Length of field 2 (number of digits)		0 - 9
С	Always enter 0.	(Fixed position)	0
D	Meaning of field 2*3	Quantity	2
		Price	0
E	Price check digit used	Yes	1
		No	0
F	TAB or decimal point of field 2 (0, 1, 2, 3)		0 - 3

*3: When you preset a quantity, the sales amount is calculated as follows: quantity x unit price programmed in #1210.



Note

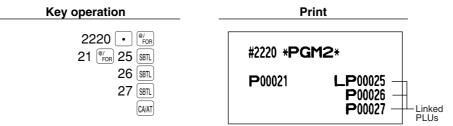
■ Link PLU/UPC link PGM 2 2220



¬ PLU/UPC codes must have already been defined.

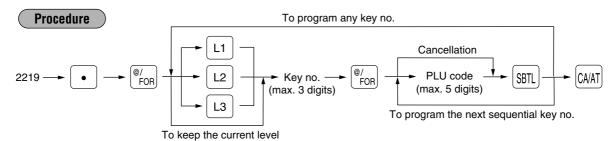
You can program a maximum of 15 link PLUs/UPCs. A link PLU/UPC can be linked to a maximum of 5 PLUs.

Example Programming so that PLU 25, 26 and 27 are linked to PLU 21



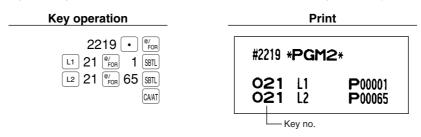
■ Programming of PLU levels and direct PLU keys PGM 2 2219

You can assign PLU codes to fixed keys in each PLU level and use those keys as direct PLU key. For assigning a PLU level, press the L1, L2 or L3 key. For example, if you want to assign PLU level 1 and key no. 1 to a PLU code, press the L1 key and enter 1 before entering the PLU code. For key no. position, refer to section "3 Standard key number layout" in chapter "KEYBOARD".



Note The key number placement is determined by your local Authorized SHARP Dealer.

Example Programming of PLU 1 (level 1) and PLU 65 (level 2) are assigned to key no. 21



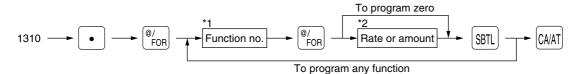
6 Programming for miscellaneous keys

Only function keys which you have programmed on the keyboard will allow this programming.

Programming the rate (%, ow, commission) and the discount (©) PGM 1 PGM 2 1310 Direct

You can program percent rates, currency conversion rates, commission rate, and discount amount.

Procedure



*1: Function no

```
1: For the [⊖] key
                     7: For the [%3] key
                                          109: For the commission sale 1
                                                                             115: For the commission sale 7
2: For the [O2] key
                     8: For the [%4] key
                                                                            116: For the commission sale 8
                                          110: For the commission sale 2
                                                                             117: For the commission sale 9
3: For the | □3 | key
                    71: For the CONV key
                                          111: For the commission sale 3
                    72: For the [CONV2] key
                                          112: For the commission sale 4
4: For the □4 key
5: For the % key
                    73: For the CONV3 key
                                          113: For the commission sale 5
6: For the [%2] key
                                          114: For the commission sale 6
```

*2: Rate or amount

0 — 999999 (Discount amount)

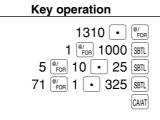
0.00 — 100.00 (% rate)

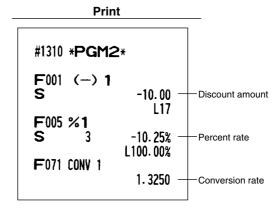
0.0000 — 9999.9999 (Currency conversion rate)

0.00 — 999.99 (Commission rate)

Example

Assigning \$10.00 to the (a) key, 10.25% to the (b) key, and 1.325 to the (c) key.





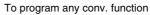
Note

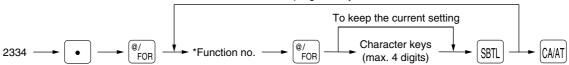
You must use a decimal point when setting percentage rates that are fractional.

■ Currency description text programming (CON) PGM 2 2334

You can program a maximum of 4 characters for each of the with thru keys.

Procedure





*: Function no.

71: For the wey 73: For the wey 72: For the wey key 74: For the wey key

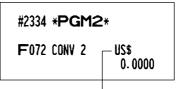
Example

Programming "US\$" for the www key



2334 • PFOR 72 FOR SPACE US\$ SBTL CAAT

Print

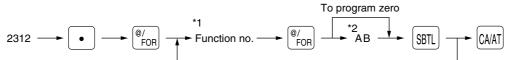


Currency description text

■ A limit amount (HALO) of entry (○, TAX, RA, PO) PGM 2 2312 Direct

The HALO limit is in effect for the REG-mode operations but can be overridden in the MGR mode. The HALO limit is represented by two figures as follows:

Procedure



To program any function

*1: Function no.

1: For the ○ key	64: For the RA key
2: For the 🖭 key	65: For the RA2 key
3: For the 🙉 key	66: For the PO key
4: For the ^{©₄} key	67: For the PO2 key
32: For the TAX key	

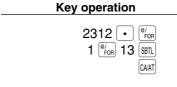
- *2: AB is the same as A x 108.
 - A: Significant digit (0 through 9)
 - B: Number of zeros to follow significant digit
 - 0 through 7 (for the $[\Theta]$ thru $[\Theta^4]$, and [TAX] keys)
 - 0 through 8 (for the [RA], [RA2], [PO], and [PO2] keys)

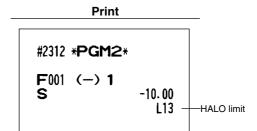
For example, presetting 13 (\$10.00) here means that amount entries of up to \$10.00 are allowed in the REG mode.

You can set up AB = 17 for no limitation (for the \bigcirc thru \bigcirc 4, and \bigcirc 4, keys). You can set up AB = 18 for no limitation (for the RA, RA2, PO, and PO2 keys).

Example

Programming 13 for the (key.





■ +/- sign, food stamp status, and tax status (%, ⊙) PGM 2 2311

+/- sign: Programming of the +/- sign assigns the premium or discount function for each key. Food stamp status: Programming of the food stamp status decides whether a premium or discount should be

dealt with as a food stamp-eligible amount or not.

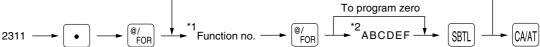
Tax status: Programming of the tax status decides whether a premium or discount should be dealt with

as a taxable (taxable 1/2/3/4) or non-taxable amount.

Note Tax 4 is prohibited if you use the food stamp function.

Procedure

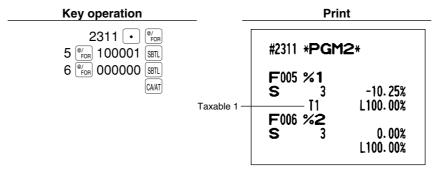




*1: Function no.

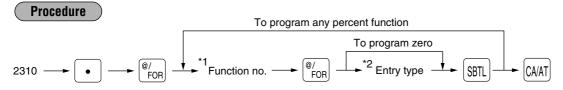
'2:	Item	:	Selection:	Entry:
_	Α	(+/-) sign	Plus	0
			Minus	1
_	В	Food stamp status	Ineligible	0
			Eligible	1
_	С	Tax 4 status	Non-taxable	0
			Taxable	1
	D	Tax 3 status	Non-taxable	0
			Taxable	1
Е	Е	Tax 2 status	Non-taxable	0
			Taxable	1
_	F	Tax 1 status	Non-taxable	0
			Taxable	1

Example Programming ABCDEF=100001 for the % key and ABCDEF=000000 for the % key



■ Percent entry type (%) PGM 2 2310

You can program the entry type of rates for percent entries.

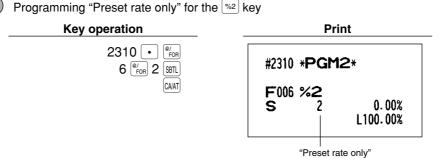


*1: Function no.

Example

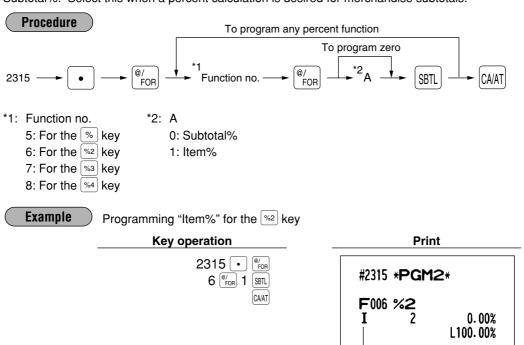
- 5: For the % key
- 6: For the %2 key
- 7: For the ^{%3} key
- 8: For the %4 key
- *2: Entry type
 - 0: Inhibited entry
 - 1: Open rate only
 - 2: Preset rate only

3: Open rate and preset rate



■ Item% or subtotal% selection (%) PGM 2 2315 Direct

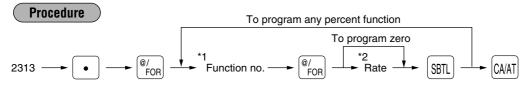
Item%: Select this when a percent calculation is desired for the individual department and PLU. Subtotal%: Select this when a percent calculation is desired for merchandise subtotals.



Item%

■ Percent rate limitation (%) PGM 2 2313

You can program the upper limit of percent rates for percent entries. Percent entries that use the upper limit may be overridden in the MGR mode.

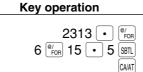


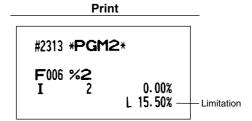
- *1: Function no.
 - 5: For the \(\% \) key
 - 6: For the %2 key
- 7: For the [%3] key 8: For the %4 key

0.00 - 100.00 (Entering 0.00 inhibits the open percent rate entry)

The • key is needed only for fractional entry. Note

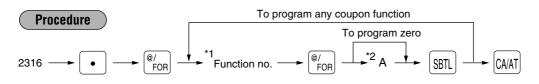
Example Programming the limit to 15.5% for the %2 key





■ Vendor or store coupon selection (○) PGM 2 2316 Direct

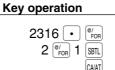
Vendor coupon: Select this when the coupon is to be applied to the total sales amount. Store coupon: Select this when the coupon is to be applied to an individual department or PLU.

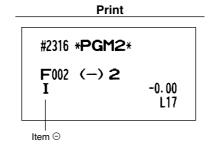


- *1: Function no.
 - 1: For the

 key
- 3: For the ^{□3} key
- 2: For the [92] key
- 4: For the ^{□4} key
- *2: A
 - 0: Vendor coupon (subtotal ⊙)
 - 1: Store coupon (item ⊝)

Example Programming the "Store coupon" for the [92] key.





Programming for the CAAT, CA2, CHK, CHK2, and CH thru CH5 keys

■ Functional programming PGM 2 2320 Direct

You can set each media for:

CAT transaction is compulsory

CAT action (POST-AUTH/DIAL)

CAT type (CREDIT/DEBIT/CHECK)

Card number printing selection

Card number print format (partial/full)

CAT signature line print selection

CAT expiration printing selection

Number of CAT authorization receipts (0 - 9)

Bill (slip) print compulsory

Footer printing on receipt

This programming decides whether or not your machine should print a message at the foot of a receipt when a specified media key is used.

Non-add code compulsory

You can enforce the non-add code entry when a media entry is accepted.

Change enable (over tender enable)

Either change enable or disable can be selected for a corresponding media key.

Validation printing compulsory

If media entries must be validated, set the corresponding media for compulsory validation print.

Drawer opening

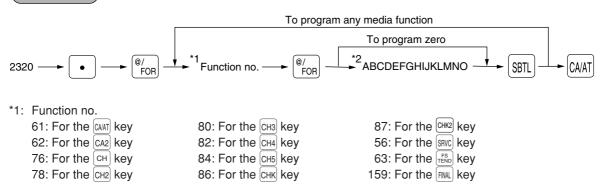
You can program each media key to or not to open the drawer.

Amount tendered compulsory

You may select amount tendered compulsory or optional for the [AMT], [CA2], [CHK], and [CHK2] keys.

You may select amount tendered compulsory or inhibited for the [CH] thru [CH5] keys.

Procedure



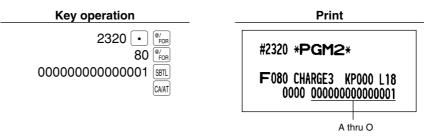
Item:		Selection:	Entry:
Α	CAT transaction	Non-compulsory	0
		Compulsory	1
В	CAT action	POST-AUTH	0
		DIAL	1
С	CAT type	CREDIT	0
		DEBIT	1
		CHECK	2
D	Card number printing	Yes	0
		No	1
E	Card number print format	Partial (printing only part of the card number)	0
		Full (printing the entire card number)	1
F	CAT signature line print	Yes	0
		No	1
G	CAT expiration printing	Yes	0
		No	1
Н	Number of CAT authorization receipts		0 thru 9
	Bill (slip) printing	Non-compulsory	0
		Compulsory	1
J	Footer printing on receipt	No	0
		Yes	1
K	Non-add code entry	Non-compulsory	0
		Compulsory	1
L	Change enable (over tender enable)	Enable	0
		Disable	1
М	Validation printing	Non-compulsory	0
		Compulsory	1
N Drawer opening Yes		Yes	0
		No	1
O Amount tendered operation Optional amount tendered for cash or che		Optional amount tendered for cash or check	0
		Inhibit amount tendered for charge	0
		Compulsory amount tendered	1

Note

- \bullet For the $\ensuremath{\,^{\rm SRVC}}$ or $\ensuremath{\,^{\rm FINAL}}$ key; always enter 0 as A thru H and J thru O.
- For the FS key, always enter 0 as A thru H, K, L, and O.

Example

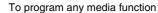
Programming of the CH3 key for selecting only to have compulsory amount tendered

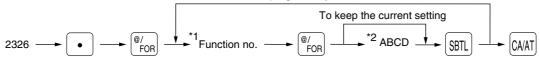


■ Tax delete PGM 2 2326

You can program each media key to delete tax (i.e. tax 1, tax 2, tax 3, tax 4) when it is pressed.

Procedure





*1: Function no.

61: For the CA2 key
62: For the CA2 key
76: For the CH2 key
78: For the CH2 key
82: For the CH4 key
84: For the CH5 key
86: For the CH6 key
87: For the CH6 key

80: For the CH3 key

*2: Ite	m:	Selection:	Entry:	
Α	Tax 4 calculation status	calculate tax 4	0	
		delete tax 4	1	
В	Tax 3 calculation status	calculate tax 3	0	
		delete tax 3	1	
С	Tax 2 calculation status	calculate tax 2	0	
		delete tax 2	1	
D	Tax 1 calculation status	calculate tax 1	0	
		delete tax 1	1	

Example

Programming the CH3 key to delete tax 1

Key operation

2326 • [@]/_{FOR} 80 [®]/_{FOR} 0001 SBTL CA/AT

Print

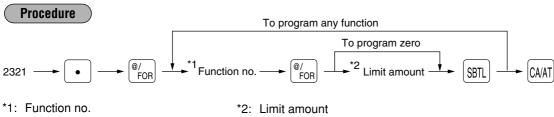
#2326 *PGM2*

A thru D

F080 CHARGE3 KP000 L18
0001 0000000000000001

■ High amount lockout (HALO) for check cashing, check change, and cash in drawer PGM 2 2321

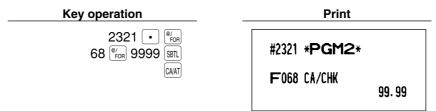
You can program the upper limit amounts for check cashing, check change, and cash in drawer.



- 68: For check cashing
- 69: For check change
- 89: For cash in drawer (sentinel)
- 0 thru 999999.99 (check cashing and check change)
- 0 thru 9999999.99 (cash in drawer)

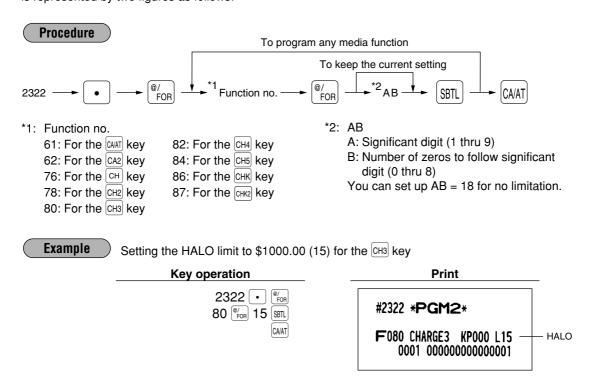
Example

Setting the limit to \$99.99 for check cashing.



■ High amount lockout (HALO) of entry for media keys PGM 2 2322 Direct

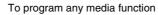
The HALO limit is in effect for REG mode operations but can be overridden in the MGR mode. The HALO limit is represented by two figures as follows:

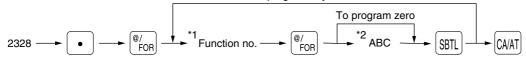


■ Print station assignment PGM 2 2328

When you use a remote printer, consult your dealer.

Procedure





*1: Function no.

61: For the CAVAT key	80: For the Снз key	87: For the CHK2 key
62: For the CA2 key	82: For the CH4 key	56: For the SRVC key
76: For the CH key	84: For the CH5 key	63: For the FS key
78: For the CH2 key	86: For the CHK key	159: For the [FINAL] key

*2: Ite	m:	Selection:	Entry:
A	Remote printer 1 output	Output	1
		Not output	0
B Remote printer 2 output		Output	1
		Not output	0
C Printing on the chit receipt		Yes	1
		No	0

Example

Programming of the CH3 key for selecting "remote printer 1 output/remote printer 2 not output/printing on chit receipt"

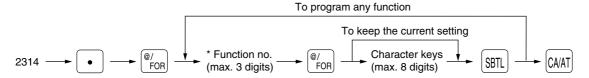


8 Programming of function text

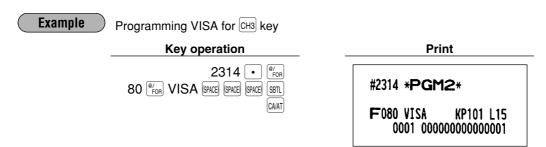
■ Programming PGM 2 2314

You can program a maximum of 8 characters for each function key and other functions using the table on the following pages. Select the characters you want to program referring to section "2 How to program alphanumeric characters" in chapter "PRIOR TO PROGRAMMING".

Procedure



* Function no.: See "List of function texts" on the following pages.



■ List of function texts

Function no.	Key or function	In default of proramming
1	⊝1	(-) 1
2	⊝2	(-) 2
3	⊝3	(-) 3
4	⊝4	(-) 4
5	%1	% 1
6	%2	% 2
7	%3	% 3
8	%4	% 4
9	Net sales total	NET1
10	Net taxable 1 subtotal	TAX1 ST
11	Gross tax 1 total	GRS TAX1
12	Tax 1 total of refund entries	RFD TAX1
13	Net tax 1 total	TAX1
14	Exempt tax 1	TX1 EXPT
15	Net taxable 2 subtotal	TAX2 ST
16	Gross tax 2 total	GRS TAX2
17	Tax 2 total of refund entries	RFD TAX2
18	Net tax 2 total	TAX2
19	Exempt tax 2	TX2 EXPT
20	Net taxable 3 subtotal	TAX3 ST
21	Gross tax 3 total	GRS TAX3
22	Tax 3 total of refund entries	RFD TAX3
23	Net tax 3 total	TAX3
24	Exempt tax 3	TX3 EXPT
25	Net taxable 4 subtotal	TAX4 ST
26	Gross tax 4 total	GRS TAX4
27	Tax 4 total of refund entries	RFD TAX4
28	Net tax 4 total	TAX4
29	Exempt tax 4	TX4 EXPT
30	Gross manual tax total	GRS MTAX
31	Refund manual tax total	RFD MTAX
32	Net manual tax total	M-TAX
*33	Exempt total from GST	GST EXPT
*34	PST total	PST TTL
*35	GST total	GST TTL
36	FS1 forgive	FS TX1
37	FS2 forgive	FS TX2
38	FS3 forgive	FS TX3
39	Tax total	TTL TAX
40	Net	NET
41	Sales total including tax total	NET2
42	Coupon-like PLU	CP PLU
43	Item void	VOID
44	Subtotal void	SBTL VD
45	Manager void	MGR VD
46	Void mode	VOID
47	Refund	REFUND

Function no. Key or function In default of proramming Hash item void INSH VD Hash item refund INSH RF NO SALE Validation print counter VP CNT Bill (slip) counter INSH CNT Tray subtotal TRAY TL STAY Deposit DEPOSIT Deposit DEPOSIT Deposit DEPOSIT Deposit DEPOSIT Description On SALE C ASH C C			
49 Hash item refund HASH RF 50 No sale NO SALE 51 Validation print counter VP CNT 52 Bill (slip) counter BILL CNT 53 Drawer counter DRW CNT 54 Tray subtotal TRAY TL 55 PBAL ***PBAL 56 Service SERVICE 57 Deposit DEPOSIT 58 Deposit refund DPST RF 59 Customer counter TRANS CT 60 Sales total N E T 3 61 Cash C ASH 62 Cash2 C ASH2 63 Food stamp sales FSSALE 64 RA ***RA2 63 Food stamp sales FSSALE 64 RA ****RA2 63 Food stamp sales FSSALE 64 RA ****RA2 65 RA2 ****RA2 66 PO ****PO2 67 <td></td> <td>Key or function</td> <td></td>		Key or function	
50 No sale NO SALE 51 Validation print counter VP CNT 52 Bill (slip) counter BILL CNT 53 Drawer counter DRW CNT 54 Tray subtotal TRAY TL 55 PBAL ***PBAL 56 Service SERVICE 57 Deposit DEPOSIT 58 Deposit refund DPST RF 59 Customer counter TRANS CT 60 Sales total N E T 3 61 Cash C ASH 62 Cash2 C ASH2 63 Food stamp sales FSSALE 64 RA ***RA2 63 Food stamp sales FSSALE 64 RA ***RA2 63 Food stamp sales FSSALE 64 RA ****RA2 65 RA2 ****RA2 66 PO ****PO2 67 PO2 ****PO2 68 <td< td=""><td>48</td><td>Hash item void</td><td>HASH VD</td></td<>	48	Hash item void	HASH VD
51 Validation print counter 52 Bill (slip) counter 53 Drawer counter 54 Tray subtotal 55 PBAL 56 Service 57 Deposit 58 Deposit refund 59 Customer counter 59 Customer counter 60 Sales total 61 Cash 62 Cash2 63 Food stamp sales 64 RA 65 RA2 66 PO 67 PO2 68 Check cashing 69 Check change 70 Currency conversion1 69 Check charge 71 Currency conversion2 72 Currency conversion3 73 Currency conversion4 74 Currency conversion4 75 Food stamp in drawer 76 Gross charge3 77 Refund charge4 78 Refund charge4 79 Refund charge5 70 Charke 70 Ross charge3 71 Charge3 72 CHARGE5 73 Refund charge4 74 Refund charge3 75 Refund charge4 76 Refund charge4 77 Refund charge4 78 Gross charge4 79 Refund charge5 70 CHARGE5 79 Refund charge6 70 CHARGE5 70 Ross charge6 71 CHARGE1 72 Refund charge9 73 CHARGE3 74 Refund charge1 75 Refund charge1 76 Gross charge4 77 Refund charge3 78 Refund charge4 79 Refund charge4 79 Refund charge5 79 Refund charge6 70 CHARGE5 70 CHARGE5 70 CHARGE5 70 Refund charge6 71 CHARGE6 72 Refund charge6 73 CHARGE6 74 Refund charge6 75 Refund charge6 76 CHARGE5 77 Refund charge6 78 Refund charge6 79 Refund charge6 79 Refund charge6 70 CHARGE6 70 Refund charge6 71 CHARGE6 72 Refund charge6 73 CHARGE6 74 Refund charge6 75 Refund charge6 76 CHARGE6 77 Refund charge6 78 Refund charge6 79 Refund charge6 70 CHARGE6 70 Refund charge6 71 CHARGE6 72 CHARGE6 73 Refund charge6 74 CHARGE6 75 Refund charge6 75 CHARGE6 76 CHARGE6 77 Refund charge6 78 Refund charge6 79 Refund charge6 70 CHARGE6 70 CHARGE6 70 Refund charge6 71 CHARGE6 72 CHARGE6 73 Refund charge6 74 CHARGE6 75 Refund charge6 75 CHARGE6 76 Refund charge6 77 Refund charge6 78 Refund charge6 79 Refund charge6 70 CHARGE	49	Hash item refund	HASH RF
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53 Drawer counter DRW CNT 54 Tray subtotal TRAY TL 55 PBAL ***PBAL 56 Service SERVICE 57 Deposit DEPOSIT 58 Deposit refund DPST RF 59 Customer counter TRANS CT 60 Sales total N E T 3 61 Cash C ASH 62 Cash2 C ASH2 63 Food stamp FSSALE 64 RA ***RA2 65 RA2 ****RA2 66 PO ****PO2 68 Check cashing CA/CHK 69 Check change CHK/CG 70 Food stamp change FS/CG 71 Currency conversion1 CONV 1 72 Currency conversion2 CONV 2 73 Currency conversion3 CONV 3 74 Currency conversion4 CONV 4 75 Food stamp in drawer FS/ID	52	Bill (slip) counter	BILL CNT
55 PBAL ***PBAL 56 Service SERVICE 57 Deposit DEPOSIT 58 Deposit refund DPST RF 59 Customer counter TRANS CT 60 Sales total N E T 3 61 Cash C ASH 62 Cash2 C ASH2 63 Food stamp sales FSSALE 64 RA ***RA2 65 RA2 ****RA2 66 PO ****PO 67 PO2 ****PO2 68 Check cashing CA/CHK 69 Check change CHK/CG 70 Food stamp change FS/CG 71 Currency conversion1 CONV 1 72 Currency conversion2 CONV 2 73 Currency conversion3 CONV 3 74 Currency conversion4 CONV 4 75 Food stamp in drawer FS/ID 76 Gross charge1 CHARGE1 <t< td=""><td>53</td><td>Drawer counter</td><td>DRW CNT</td></t<>	53	Drawer counter	DRW CNT
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58 Deposit refund DPST RF 59 Customer counter TRANS CT 60 Sales total N E T 3 61 Cash C ASH 62 Cash2 C ASH2 63 Food stamp sales FSSALE 64 RA ***RA2 65 RA2 ****RA2 66 PO ****PO 67 PO2 ****PO 68 Check cashing CA/CHK 69 Check change CHK/CG 70 Food stamp change FS/CG 71 Currency conversion1 CONV 1 72 Currency conversion2 CONV 2 73 Currency conversion3 CONV 3 74 Currency conversion4 CONV 4 75 Food stamp in drawer FS/ID 76 Gross charge1 CHARGE1 77 Refund charge2 CHARGE2 79 Refund charge2 CHARGE3 81 Refund charge3 CHARGE	57	Deposit	DEPOSIT
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77 Refund charge1 CHARGE1– 78 Gross charge2 CHARGE2 79 Refund charge2 CHARGE2– 80 Gross charge3 CHARGE3 81 Refund charge3 CHARGE3– 82 Gross charge4 CHARGE4 83 Refund charge4 CHARGE4– 84 Gross charge5 CHARGE5 85 Refund charge5 CHARGE5– 86 Check CHECK1 87 Check2 CHECK2 88 Cash + check in drawer CA/CH ID 89 Cash in drawer *****CID *90 Exempt VAT VAT EXPT 91 Sales average AVE. 92 Group 1 G ROUP01			_
78 Gross charge2 CHARGE2 79 Refund charge2 CHARGE2— 80 Gross charge3 CHARGE3 81 Refund charge3 CHARGE3— 82 Gross charge4 CHARGE4 83 Refund charge4 CHARGE4— 84 Gross charge5 CHARGE5 85 Refund charge5 CHARGE5— 86 Check CHECK1 87 Check2 CHECK2 88 Cash + check in drawer CA/CH ID 89 Cash in drawer *****CID *90 Exempt VAT VAT EXPT 91 Sales average AVE. 92 Group 1 G ROUP01			-
79 Refund charge2 CHARGE2– 80 Gross charge3 CHARGE3 81 Refund charge3 CHARGE3– 82 Gross charge4 CHARGE4– 83 Refund charge4 CHARGE4– 84 Gross charge5 CHARGE5 85 Refund charge5 CHARGE5– 86 Check CHECK1 87 Check2 CHECK2 88 Cash + check in drawer CA/CH ID 89 Cash in drawer ****CID *90 Exempt VAT VAT EXPT 91 Sales average AVE. 92 Group 1 G ROUP01		-	
80 Gross charge3 CHARGE3 81 Refund charge3 CHARGE3— 82 Gross charge4 CHARGE4 83 Refund charge4 CHARGE4— 84 Gross charge5 CHARGE5 85 Refund charge5 CHARGE5— 86 Check CHECK1 87 Check2 CHECK2 88 Cash + check in drawer CA/CH ID 89 Cash in drawer *****CID *90 Exempt VAT VAT EXPT 91 Sales average AVE. 92 Group 1 G ROUP01			-
81 Refund charge3 CHARGE3- 82 Gross charge4 CHARGE4 83 Refund charge4 CHARGE4- 84 Gross charge5 CHARGE5 85 Refund charge5 CHARGE5- 86 Check CHECK1 87 Check2 CHECK2 88 Cash + check in drawer CA/CH ID 89 Cash in drawer *****CID *90 Exempt VAT VAT EXPT 91 Sales average AVE. 92 Group 1 G ROUP01	79		
82 Gross charge4 CHARGE4 83 Refund charge4 CHARGE4— 84 Gross charge5 CHARGE5 85 Refund charge5 CHARGE5— 86 Check CHECK1 87 Check2 CHECK2 88 Cash + check in drawer CA/CH ID 89 Cash in drawer *****CID *90 Exempt VAT VAT EXPT 91 Sales average AVE. 92 Group 1 G ROUP01			
83 Refund charge4 CHARGE4— 84 Gross charge5 CHARGE5 85 Refund charge5 CHARGE5— 86 Check CHECK1 87 Check2 CHECK2 88 Cash + check in drawer CA/CH ID 89 Cash in drawer *****CID *90 Exempt VAT VAT EXPT 91 Sales average AVE. 92 Group 1 G ROUP01			
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88 Cash + check in drawer CA/CH ID 89 Cash in drawer *****CID *90 Exempt VAT VAT EXPT 91 Sales average AVE. 92 Group 1 G ROUP01			
89 Cash in drawer *****CID *90 Exempt VAT VAT EXPT 91 Sales average AVE. 92 Group 1 G ROUP01			
*90 Exempt VAT VAT EXPT 91 Sales average AVE. 92 Group 1 G ROUP01	88	Cash + check in drawer	
91 Sales average AVE. 92 Group 1 G ROUP01			
92 Group 1 G ROUP01	*90	· ·	
·	91	Sales average	AVE.
93 Group 2 G ROLIPO2	92	Group 1	
33 G100P Z	93	Group 2	G ROUP02
94 Group 3 G ROUP03	94	Group 3	G ROUP03

Function no.	Key or function	In default of proramming	Function no.	Key or function	In default of proramming
95	Group 4	G ROUP04	134	CCD differ total	DIF. TL
96	Group 5	G ROUP05	135	Subtotal	SUBTOTAL
97	Group 6	G ROUP06	136	Merchandise subtotal	MDSE ST
98	Group 7	G ROUP07	137	Total	***TOTAL
99	Group 8	G ROUP08	138	Change	CHANGE
100	Group 9	G ROUP09	139	Food stamp subtotal	FS ST
101	Price level 1 for PLU	LEVEL 1	140	Food stamp tender	FS TEND
102	Price level 2 for PLU	LEVEL 2	141	Food stamp change	FS CG
103	(+)Dept. total	*DEPT TL	142	Items	ITEMS
104	(-)Dept. total	DEPT(-)	143	Copy receipt title	DEPT
105	Hash (+)dept. total	*HASH TL	144	Group report title	GROUP
106	Hash (-)dept. total	HASH(-)	145	PLU/UPC report title	PLU/UPC
107	(+)Bottle return total	*BTTL TL	146	Stock report title	STOCK
108	(–)Bottle return total	BTTL(-)	147	Zero sales report title	ZERO SAL
109	Commission sale 1	COM.SAL1	148	Category report title	CATEGORY
110	Commission sale 2	COM.SAL2	149	Transaction report title	TRANS.
111	Commission sale 3	COM.SAL3	150	Cash in drawer report title	CID
112	Commission sale 4	COM.SAL4	151	Commission sales report title	SALES
113	Commission sale 5	COM.SAL5	152	CCD report title	CCD
114	Commission sale 6	COM.SAL6	153	Cashier report title	CASHIER
115	Commission sale 7	COM.SAL7	154	Hourly report title	HORLY
116	Commission sale 8	COM.SAL8	155	Daily net report title	DAILY
117	Commission sale 9	COM.SAL9	156	PBLU report title	PBLU
118	Non commission sale	NON COM.	157	Non-add code text	#
119	Commission amount 1	COM.AMT1	158	Copy receipt title	COPY
120	Commission amount 2	COM.AMT2	159	Final (used only for PGM mode)	FINAL
121	Commission amount 3	COM.AMT3	160	Balance	BALANCE
122	Commission amount 4	COM.AMT4	161	Slip print message on journal	SLIP PR.
123	Commission amount 5	COM.AMT5	162	Slip next page	NEXT P.
124	Commission amount 6	COM.AMT6	163	Balance forward	BAL FWD
125	Commission amount 7	COM.AMT7	164	Tare weight	TARE WT.
126	Commission amount 8	COM.AMT8	165	DUE (text on display)	DUE
127	Commission amount 9	COM.AMT9	166	TAX ST (text on display)	TAX ST
128	Commission amount total	COM.TTL	167	AMOUNT (text on display)	AMOUNT
129	Cash/check is	CA/CH IS	168	WEIGHT (text on display)	WEIGHT
130	Conversion1 is	CONV1 IS	169	Refund type of sales (text on display)	RF SALE
131	Conversion2 is	CONV2 IS	170	Vender coupon UPC	V. CP UPC
132	Conversion3 is	CONV3 IS	171	Non-accessed UPC report title	NO ACCES
133	CCD differ	CCD DIF.	172	Price change title	PR. CHNG

- The items marked with " * " are for Canada only.
 The function no. 90 "Exempt VAT" is only effective for the Canadian tax system (2 GST, VAT type).

9 Cashier programming

Cashier code PGM 1 PGM 2 1500

You can assign a cashier code to each cashier. For more details, please contact your local dealer.

Procedure

To program any cashier no.

To program zero

Cashier no.

(1 - 20)

** Cashier code (1 - 9999)

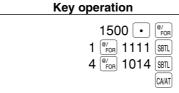
** Cashier code (1 - 9999)

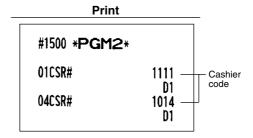
SBTL

CA/AT

Example

To program 1111 for cashier no.1 and 1014 for cashier no. 4

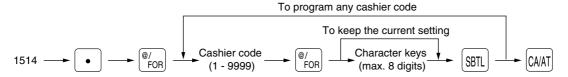




■ Cashier name PGM 1 PGM 2 1514

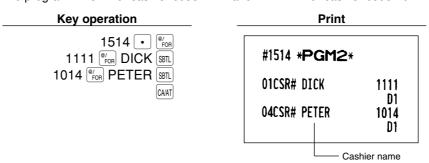
You can program a maximum of 8 characters (cashier name) for each cashier. Select the characters you want to program referring to section "2 How to program alphanumeric characters" in chapter "PRIOR TO PROGRAMMING".

Procedure



Note The cashier code must be programmed for the cashier by job #1500 prior to assigning text.

Example To program "DICK" for cashier code 1111 and "PETER" for cashier code 1014

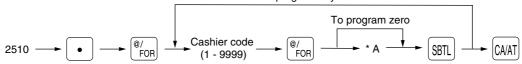


^{*} Programming cashier code "0" inhibits entries of the cashier code.

■ Assigning cashiers to drawers PGM 2 2510

Procedure

To program any cashier code

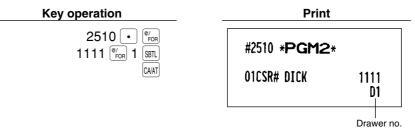


Note The cashier code must be programmed for the cashier by job #1500 prior to assigning drawer no.

* Item:		Selection:	Entry:	
Α	Drawer no.	Use no drawer	0	
		Set the drawer no. 1 or 2	1 or 2	

Example

Assigning cashier code 1111 to drawer no. 1



10 Programming various functions

■ Programming for optional feature selection PGM 2 2616

Your register enables you to select the following options:

OP X/Z mode availability

When a cashier needs to take the cashier X/Z report, he or she will use the OP X/Z mode.

This programming determines whether he or she will be allowed to use this mode.

Note You can take the cashier X and Z reports in the X1/Z1 mode regardless of the above programming.

Paid-out in the REG mode
Refund type of sale in the REG mode
Refund in the REG mode
Direct void in the REG mode
Indirect void in the REG mode
Subtotal void in the REG mode
Validation printing in a refund entry
First item direct void

PLU level shift mode

• Automatic return mode: This mode automatically shift the PLU level back to level 1 (ordinary level) after a

direct PLU entry.

• Lock shift mode: This mode holds the current PLU level until making a level shift operation

(pressing a level shift key).

Available mode for PLU level shift

Printing of the number of purchased items

Time printing on the receipt/journal

Journal print form

You may choose either of the following forms.

- Detailed journal print that shows the details of all entries the same information as printed on the receipt.
- Summary journal print that shows information about all entries other than normal department entries (entries into "+" departments and their associated "+" PLUs).

Availability of the item validation printing

Validation printing in a discount (○) entry

Zero skip for various reports

Automatic return mode for PLU level

- By one receipt: Returns the PLU level to level 1 after each receipt.
- By one item: Returns the PLU level to level 1 after each item entry.

Available mode for PLU/UPC price shift

PLU/UPC price shift mode

• Automatic return mode: This mode automatically shifts the price level back to price 1 (ordinary level) after

the entry.

Lock shift mode: This mode holds the current price level until making a price shift selection

(pressing the price shift key).

Automatic return mode for PLU/UPC price level

• By one receipt: Returns the price level to price 1 after each receipt.

• By one item: Returns the price level to price 1 after each item entry.

No sale in REG mode

Finalization when the subtotal amount is zero in the REG mode

Item printing in PBLU transactions on the slip

Usability of the RA entry

Validation printing in a check cashing entry

Validation printing in a RA entry

Validation printing in a PO entry

Birthday date printing for the age limitation

Footer graphic logo printing

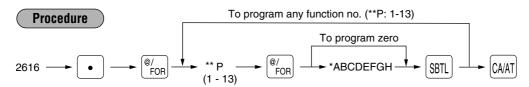
Learning function of UPC entry

Price change function in REG mode

Printing of the price shift text on the receipt/journal

Treating the EAN8 code (200XXXXC/D)

Price entry after ISBN/ISSN code entry



**	Р	٠	1
	•	٠	

Ite	m:	Selection:	Entry:
Α	OP X/Z mode	Enable	0
		Disable	1
В	Paid-out in REG mode	Enable	0
		Disable	1
С	Refund type of sale in the REG mode	Enable	0
		Disable	1
D	Refund in the REG mode	Enable	0
		Disable	1
E	Direct void in REG mode	Enable	0
		Disable	1
F	Indirect void in the REG mode	Enable	0
		Disable	1

* <u>It</u>	em:	Selection:	Entry:	
G	Subtotal void in REG mode	Enable	0	_
		Disable	1	
Н	Validation printing in a refund entry	Non-compulsory	0	
		Compulsory	1	

P: 2				
Ite	m:	Selection:	Entry:	
A	The first item direct void	Enable	0	
		Disable	1	
В	PLU level shift mode	Automatic return mode	0	
		Lock shift mode	1	
С	Available mode for PLU level shift	REG and MGR modes	0	
		MGR mode only	1	
D	Printing of the number of purchased items	No	0	
		Yes	1	
Ε	Time printing on the receipt/journal	Yes	0	
		No	1	
F	Journal print form	Detailed	0	
		Limited	1	
G	Availability of the item validation printing	Enable	0	
		Disable	1	
Н	Validation printing in a discount (⊙) entry	Non-compulsory	0	
		Compulsory	1	

*P: 3	3		
Ite	em:	Selection:	Entry:
Α	Always enter 0.		0
В	Always enter 0.		0
C	Zero skip in cashier report	Yes	0
		No	1
D	Zero skip in transaction report	Yes	0
		No	1
Ε	Zero skip in department report	Yes	0
		No	1
F	Zero skip in PLU/UPC report	Yes	0
		No	1
G	Zero skip in hourly report	Yes	0
		No	1
Н	Zero skip in daily net report	Yes	0
		No	1

Ite	m:	Selection:	Entry:	
Α	Always enter 0.		0	
В	Always enter 0.		0	
С	Always enter 0.		0	
D	Always enter 0.		0	
Ε	Always enter 0.		0	
F	Always enter 0.		0	
G	Always enter 0.		0	
Н	Automatic return mode for PLU level	After each item	0	
		After each receipt	1	

**P: 5

' <u>Ite</u>	em:	Selection:	Entry:	
Α	Always enter 0.		0	
В	Always enter 0.		0	
С	Always enter 0.		0	
D	Always enter 0.		0	
E	Always enter 0.		0	
F	Available mode for PLU/UPC price shift	REG and MGR modes	0	
		MGR mode only	1	
G	PLU/UPC price shift mode	Automatic return mode	0	
		Lock shift mode	1	
Н	Automatic return mode for PLU/UPC price level	After each item	0	
		After each receipt	1	

^{**}P: 6 (ABCDEFGH: Always enter 0.)

**P: 7

em:	Selection:	Entry:
Always enter 0.		0
Always enter 0.		0
No sale in REG mode	Enable	0
	Disable	1
Finalization when the subtotal amount is zero	Enable	0
in the REG mode	Disable	1
Item printing in PBLU transaction on the slip	Yes	0
	No	1
Always enter 0.		0
Always enter 0.		0
Always enter 0.		0
	Always enter 0. No sale in REG mode Finalization when the subtotal amount is zero in the REG mode Item printing in PBLU transaction on the slip Always enter 0. Always enter 0.	Always enter 0. Always enter 0. No sale in REG mode Enable Disable Finalization when the subtotal amount is zero in the REG mode Item printing in PBLU transaction on the slip Always enter 0. Always enter 0.

**P: 8

Ite	m:	Selection:	Entry:	
A	Always enter 0.		0	
В	Always enter 0.		0	
С	Always enter 0.		0	
D	Usability of the RA entry	Without limitation	0	-
		Only for PBLU transaction	1	
Ε	Validation printing in a check cashing	Non-compulsorly	0	
		Compulsory	1	-
F	Validation printing in a RA entry	Non-compulsorly	0	
		Compulsory	1	
G	Validation printing in a PO entry	Non-compulsorly	0	
		Compulsory	1	
Н	Always enter 0.		0	

**P: 9

* <u>Ite</u>	em:	Selection:	Entry:	
Α	Always enter 0.		0	
В	Always enter 0.		0	
С	Birthday date printing for the age limitation	Yes	0	
		No	1	
D	Always enter 0.		0	
Е	Always enter 0.		0	
F	Always enter 0.		0	
G	Always enter 0.		0	
Н	Footer graphic logo printing	No	0	
		Yes	1	

**P: 10

Item:		Selection:	Entry:	
A and B	Always enter 0.		0	
С	Learning function of UPC entry	Yes	0	
		No	1	
D to H	Always enter 0.	(Fixed position)	0	

^{**}P: 11 (ABCDEFGH: Always enter 0.)

**P: 12

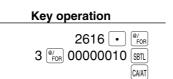
* Item:	Selection:		Entry:	
A to G	Always enter 0.		0	
Н	Price change function in REG mode	Enable	0	
		Disable	1	

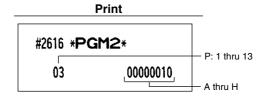
**P: 13

Item:		Selection:	Entry:
A to C	Always enter 0.		0
D	Printing of the price shift text on the	Yes	0
	receipt/journal	No	1
E	Always enter 0.		0
F	Treating the EAN8 code (200XXXXC/D)	Yes	0
		No	1
G	Always enter 0.		0
Н	Price entry after ISBN/ISSN code entry	Compulsory	0
		Inhibited	1

Example

Programming to select zero suppression for the cashier report, transaction report, dept. report, PLU/UPC report and daily net report, and to select non-skip printing for an hourly report.





■ Programming the parameter of the slip printer PGM 2

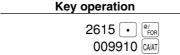
Procedure

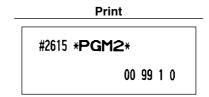


- * AB: Initial slip feed line (0 to 64)
 - CD: Slip print max. line no. (0 to 99)
 - E: Validation printing counter (1 thru 9 times)
 To inhibit validation printing, enter 0.
- F: Feed lines after printing of a tray subtotal (0 thru 9 lines)



Entering 009910 to ABCDEF

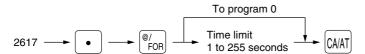




■ Setting the time limit for THE TILL TIMER™ PGM 2 2617

The machine counts the number of times the drawer is left open for longer than a programmed time limit. The counter will be incremented by one each time a programmed time limit is reached. The time limit for THE TILL TIMER™ can be preset for 0 to 255 seconds. The count is printed on the general report and cashier report.

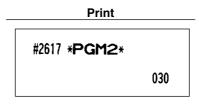
Procedure



Example

Setting the time limit as 30 (seconds).





■ Scale tare table PGM 2 2618

The register can be programmed with up to nine tare tables and allows different tares to be assigned to them (for auto scale entries).

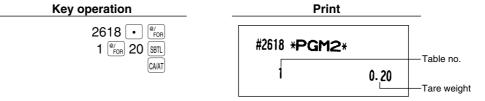
Procedure



To program any tare table no.

Example

To assign the tare weight 0.20 lbs to tare table no. 1

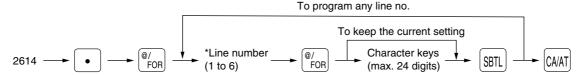


■ Programming of logo messages PGM 2 2614

Your register can print programmed messages for customers on every receipt. On the standard model, the ER-A410 prints a graphic logo/the ER-A420 is set to print a header 3-line message on the receipt. (If you want a graphic logo customerized for your store, please consult your dealer.)

If you want to print logo message, please consult your dealer too. You have five options described below. Select the characters you want to program, referring to section "2 How to program alphanumeric characters" in chapter "PRIOR TO PROGRAMMING."

Procedure

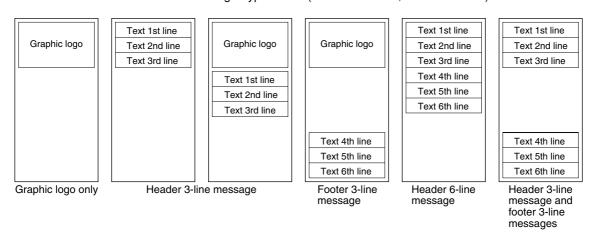


* "Header 3-line message" type: 1 to 3

"Footer 3-line message" type: 4 to 6

"Header 6-line message" type: 1 to 6

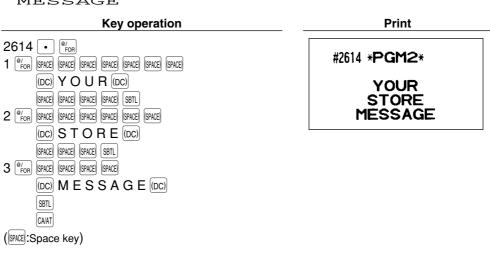
"Header 3-line and footer 3-line message" type: 1 to 6 (1 to 3 as header, 4 to 6 as footer)



Example

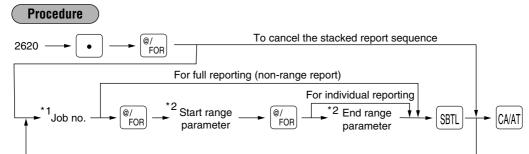
To program the following logo message by using 3 lines:

YOUR STORE MESSAGE



■ Selection of X1/Z1 and X2/Z2 reports to be printed in the stacked report sequence PGM 2 2620

Your register is equipped with the stacked report printing function that enables multiple X/Z reports to be printed in sequence with only a single request.



To program any Job no.

Note

- A maximum of 70 steps are programmable. "1 step" means the memory size used for one norange type job no. The range type job no. needs "8 steps".
- When the Z of stacked report is initiated, X only reports will be skipped.

Job code numbers to be used are as follows.

*1: Job no.	Report name	*2: Start/End range parameter	Note
00	General		
10	Full department		
13	Full department group		
20	PLU/UPC	*3 Start code/End code (max. 5/13 digits)	
24	PLU/UPC stock	*3 Start code/End code (max. 5/13 digits)	
27	PLU/UPC zero sales		
29	PLU/UPC price category	*3 Start price amount/End price amount	
30	Transaction		
31	Cash in drawer		
32	Commission sale		
50	Full cashier		
60	Hourly sales information	*3 Start time/End time (0 thru 2330)	Range report is available only in the X1 mode.
70	Daily net report		
80	PBLU report	*3 Start PBLU code/End PBLU code (1 thru 9999)	

^{*3:} Both range setting and full setting are allowed.

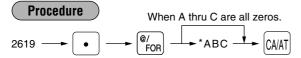
Example

To print reports 10 and 13 as a stacked report.

Key operation	Print
2620 •	#2620 * PGM2 *
CA/AT	13

■ Setting the time range for hourly reports PGM 2 2619

You can set the time range for the hourly report.



*A: Time range

To set the time range to 30 minutes (in the 24-hour system), enter 0.

To set the time range to 60 minutes (in the 24-hour system), enter 1.

BC: Starting time (hour = 00 to 23)

Example

Setting the time range to 60 minutes with the starting time being set at 7:00

Note To change this setting, an hourly Z report (#160) must be taken prior to the changes.

■ Programming of power saving mode PGM 2

Procedure



*	Item:		Selection:	Entry:
	A Entering power save mode when time is		Enable	0
		displayed.	Disable	1
	BCD Time (min.) to entering power save mode			1 through 254 (min.)
		since no operation is made.		(999: The power save mode is inhibited.)

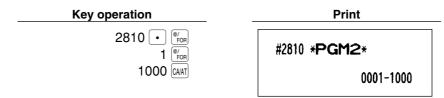
■ PBLU code programming PGM 2 2810

You can specify the range of PBLU codes available for the register.

Procedure

Example

Programming 1 for start code and 1000 for end code



■ Functional programming for the printer PGM 2 2990

You can program the printing density of the receipt/journal printer.

Procedure

*AB: Printing density (00 – 99)

00 = 80% for standard density

50 = 90% for standard density

99 = 100% for standard density

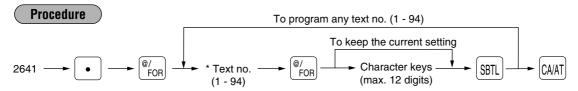
Example

Programming "90% for standard density"



■ Programming of error messages PGM 2 2641

Your register has standard error messages as indicated in the following list. For more information about the alphanumeric characters programming, see section "2 How to program alphanumeric characters" under the chapter "PRIOR TO PROGRAMMING".



* Text no.: See "LIST OF ERROR MESSAGES" shown below.

Example Programming "ENTRY ERROR" for text no. 1



■ LIST OF ERROR MESSAGES

1 Registration error MISOPERATION 2 Misoperation error MISOPERATION 3 Desired code is not programmed yet. 4 (Reserved) 5 Secret code error SECRET CODE 6 Code is not free NOT FREE 7 Memory is full. MEMORY FULL 8 Insert slip paper. INSERT SLIP 9 The entered cashier's code is not authorized. NO AUTHORITY 10 Stock is empty. OUT OF STOCK 11 Compulsory pushing the subtotal key SBTL COMPUL. 12 Compulsory tendering TEND COMPUL. 13 Compulsory PBLU entry PB COMPUL. 14-19 (Reserved) 20 Remote printer off line OFF LINE 21 (Reserved) 22 Overlapped cashier error CASHIER ERR. 23-26 (Reserved) 27 Power off POWER OFF 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. The direct non-tendering finalization after previous tender entry is inhibited. The direct non-tendering finalization after previous tender entry is inhibited. NOT NON-TEND	Text no.	Description	In default of programming
3 Desired code is not programmed yet. 4 (Reserved) 5 Secret code error SECRET CODE 6 Code is not free NOT FREE 7 Memory is full. MEMORY FULL 8 Insert slip paper. INSERT SLIP 9 The entered cashier's code is not authorized. NO AUTHORITY 10 Stock is empty. OUT OF STOCK 11 Compulsory pushing the subtotal key SBTL COMPUL. 12 Compulsory tendering TEND COMPUL. 13 Compulsory PBLU entry PB COMPUL. 14-19 (Reserved) 20 Remote printer off line OFF LINE 21 (Reserved) 22 Overlapped cashier error CASHIER ERR. 23-26 (Reserved) 27 Power off POWER OFF 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. INH. UNIT PR 36 The direct non-tendering finalization after previous tender entry is inhibited.	1	Registration error	ENTRY ERROR
Programmed yet. NO RECORD	2	Misoperation error	MISOPERATION
5 Secret code error 6 Code is not free 7 Memory is full. 8 Insert slip paper. 9 The entered cashier's code is not authorized. 10 Stock is empty. 11 Compulsory pushing the subtotal key 12 Compulsory PBLU entry 13 Compulsory PBLU entry 14-19 (Reserved) 20 Remote printer off line 21 (Reserved) 22 Overlapped cashier error 23-26 (Reserved) 27 Power off 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. 33 (Reserved) 34 Overflow limitation 35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 Indeptod Inserved Inserved NOT NON-TEND	3		NO RECORD
6 Code is not free 7 Memory is full. 8 Insert slip paper. 10 Stock is empty. 11 Compulsory pushing the subtotal key 12 Compulsory PBLU entry 13 Compulsory PBLU entry 14-19 (Reserved) 20 Remote printer off line 21 (Reserved) 22 Overlapped cashier error 23-26 (Reserved) 27 Power off 28-30 (Reserved) 31 Compulsory non-add code 32 The cashier is not assigned. 33 (Reserved) 34 Overflow limitation 35 The open price entry is inhibited. 36 Version of the subtotal finalization after previous tender in property is inhibited. 37 Incorporation of the memory is inhibited. 38 Insert slip paper. 39 INSERT SLIP NO AUTHORITY	4	(Reserved)	
7 Memory is full. 8 Insert slip paper. 1NSERT SLIP 9 The entered cashier's code is not authorized. 10 Stock is empty. 11 Compulsory pushing the subtotal key 12 Compulsory PBLU entry 13 Compulsory PBLU entry 14-19 (Reserved) 20 Remote printer off line 21 (Reserved) 22 Overlapped cashier error 23-26 (Reserved) 27 Power off 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. 33 (Reserved) 34 Overflow limitation 35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 Independent of the power of the unit price of the provious tender entry is inhibited. 36 Inserved on the unit price of the provious tender entry is inhibited.	5	Secret code error	SECRET CODE
8 Insert slip paper. INSERT SLIP 9 The entered cashier's code is not authorized. NO AUTHORITY 10 Stock is empty. OUT OF STOCK 11 Compulsory pushing the subtotal key SBTL COMPUL. 12 Compulsory tendering TEND COMPUL. 13 Compulsory PBLU entry PB COMPUL. 14-19 (Reserved) 20 Remote printer off line OFF LINE 21 (Reserved) 22 Overlapped cashier error CASHIER ERR. 23-26 (Reserved) 27 Power off POWER OFF 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 In UNIT PR 38 The direct non-tendering finalization after previous tender entry is inhibited.	6	Code is not free	NOT FREE
9 The entered cashier's code is not authorized. 10 Stock is empty. 11 Compulsory pushing the subtotal key 12 Compulsory tendering 13 Compulsory PBLU entry 14-19 (Reserved) 20 Remote printer off line 21 (Reserved) 22 Overlapped cashier error 23-26 (Reserved) 27 Power off 28-30 (Reserved) 31 Compulsory non-add code 31 Compulsory non-add code 32 The cashier is not assigned. 33 (Reserved) 34 Overflow limitation 35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 The direct non-tendering finalization after previous tender entry is inhibited.	7	Memory is full.	MEMORY FULL
10 Stock is empty. OUT OF STOCK 11 Compulsory pushing the subtotal key SBTL COMPUL. 12 Compulsory tendering TEND COMPUL. 13 Compulsory PBLU entry PB COMPUL. 14-19 (Reserved) 20 Remote printer off line OFF LINE 21 (Reserved) 22 Overlapped cashier error CASHIER ERR. 23-26 (Reserved) 27 Power off POWER OFF 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 The direct non-tendering finalization after previous tender entry is inhibited.	8	Insert slip paper.	INSERT SLIP
11 Compulsory pushing the subtotal key 12 Compulsory tendering TEND COMPUL. 13 Compulsory PBLU entry PB COMPUL. 14-19 (Reserved) 20 Remote printer off line OFF LINE 21 (Reserved) 22 Overlapped cashier error CASHIER ERR. 23-26 (Reserved) 27 Power off POWER OFF 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. 36 Inhe unit price entry is inhibited. 37 The direct non-tendering finalization after previous tender entry is inhibited. NOT NON-TEND	9		NO AUTHORITY
the subtotal key 12 Compulsory tendering 13 Compulsory PBLU entry 14-19 (Reserved) 20 Remote printer off line 21 (Reserved) 22 Overlapped cashier error 23-26 (Reserved) 27 Power off 28-30 (Reserved) 31 Compulsory non-add code 31 Compulsory non-add code 32 The cashier is not assigned. 33 (Reserved) 34 Overflow limitation 35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 The direct non-tendering finalization after previous tender entry is inhibited.	10	Stock is empty.	OUT OF STOCK
13 Compulsory PBLU entry 14-19 (Reserved) 20 Remote printer off line 21 (Reserved) 22 Overlapped cashier error 23-26 (Reserved) 27 Power off 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. 33 (Reserved) 34 Overflow limitation 35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 The direct non-tendering finalization after previous tender entry is inhibited.	11	Compulsory pushing the subtotal key	SBTL COMPUL.
14-19 (Reserved) 20 Remote printer off line OFF LINE 21 (Reserved) 22 Overlapped cashier error CASHIER ERR. 23-26 (Reserved) 27 Power off POWER OFF 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 The direct non-tendering finalization after previous tender entry is inhibited.	12	Compulsory tendering	TEND COMPUL.
20 Remote printer off line 21 (Reserved) 22 Overlapped cashier error 23-26 (Reserved) 27 Power off 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 The direct non-tendering finalization after previous tender entry is inhibited.	13	Compulsory PBLU entry	PB COMPUL.
21 (Reserved) 22 Overlapped cashier error CASHIER ERR. 23-26 (Reserved) 27 Power off POWER OFF 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. INH. OPEN PR 36 The unit price entry is inhibited. 37 The direct non-tendering finalization after previous tender entry is inhibited.	14-19	(Reserved)	
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23-26 (Reserved) 27 Power off POWER OFF 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. INH. OPEN PR 36 The unit price entry is inhibited. INH. UNIT PR 37 The direct non-tendering finalization after previous tender entry is inhibited.	21	(Reserved)	
27 Power off 28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. INH. OPEN PR 36 The unit price entry is inhibited. INH. UNIT PR 37 The direct non-tendering finalization after previous tender entry is inhibited.	22	Overlapped cashier error	CASHIER ERR.
28-30 (Reserved) 31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. INH. OPEN PR 36 The unit price entry is inhibited. INH. UNIT PR 37 The direct non-tendering finalization after previous tender entry is inhibited.	23-26	(Reserved)	
31 Compulsory non-add code # COMPULSORY 32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. INH. OPEN PR 36 The unit price entry is inhibited. INH. UNIT PR 37 The direct non-tendering finalization after previous tender entry is inhibited.	27	Power off	POWER OFF
32 The cashier is not assigned. NOT ASSIGNED 33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. INH. OPEN PR 36 The unit price entry is inhibited. INH. UNIT PR 37 The direct non-tendering finalization after previous tender entry is inhibited.	28-30	(Reserved)	
33 (Reserved) 34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 The direct non-tendering finalization after previous tender entry is inhibited. 38 NOT NON-TEND	31	Compulsory non-add code	# COMPULSORY
34 Overflow limitation OVER LIMIT. 35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 The direct non-tendering finalization after previous tender entry is inhibited. NOT NON-TEND	32	The cashier is not assigned.	NOT ASSIGNED
35 The open price entry is inhibited. 36 The unit price entry is inhibited. 37 The direct non-tendering finalization after previous tender entry is inhibited. 38 NOT NON-TEND	33	(Reserved)	
36 The unit price entry is inhibited. The unit price entry is inhibited. The direct non-tendering finalization after previous tender entry is inhibited.	34	Overflow limitation	OVER LIMIT.
inhibited. The direct non-tendering finalization after previous tender entry is inhibited. NOT NON-TEND	35	The open price entry is inhibited.	INH. OPEN PR
37 finalization after previous tender entry is inhibited.	36	The unit price entry is inhibited.	INH. UNIT PR
38 Read error of scale data SCALE ERROR	37	finalization after previous	NOT NON-TEND
	38	Read error of scale data	SCALE ERROR

Text no.	Description	In default of programming
39-50	(Reserved)	
51	Weight on scale	WEIGHT
52-53	(Reserved)	
54	Entry of tare weight	ENTR TARE WT
55-60	(Reserved)	
61	Desired code is not programmed yet. (learning function)	NO RECORD
62	Enter price and dept. no.	PRICE → DEPT
63	Enter price and dept. no.	PRICE & DEPT
64	Enter dept. no.	ENTER DEPT#
65-66	(Reserved)	
67	REG buffer is full.	BUFFER FULL
68-69	(Reserved)	
70	Price entry at UPC refund	ENTER PRICE
71-73	(Reserved)	
74	Non-accessed UPC delete job	DELETE
75	(Reserved)	
76	Closing the drawer is compulsory.	CLOSE DRAWER
77-78	(Reserved)	
79	Reading of undefined vender coupon UPC	OP ENTER
80	(Reserved)	
81	Message for prompting entry of secret code	ENTR SECRET#
82-83	(Reserved)	
84	Data backup send success	SEND OK
85	Data backup receive success	RECEIVE OK
86	Data backup communication error	COM. ERROR
87	Backup data format error	DATA ERROR
88	Data backup time out error	TIME OUT
89-93	(Reserved)	
94	Age limitation error	AGE ERROR

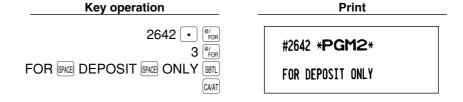
■ Check validation message PGM 2 2642

You can program the text (3 lines) to be printed on validation slip. Up to 24 characters can be programmed per line

Procedure



Example Programming "FOR DEPOSIT ONLY" for the check validation message



Note The RINT key must be placed on the keyboard.

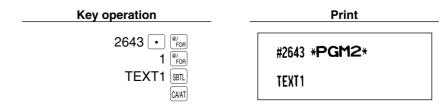
■ Slip printer's logo message PGM 2 2643

You can program the text (3 lines) to be printed on slip. Up to 24 characters can be programmed per line.

Procedure



Example Programming "TEXT1" for the slip printer's logo message



Note The Sup key must be placed on the keyboard.

■ RS-232C channel assignment PGM 2 2690

Your register is equipped with two RS-232C interfaces. If you use the communication functions, the channel number of each RS-232C interface must be programmed by using the following procedure. To activate the communication functions, please consult your dealer.

Procedure

To program any function no. (**P: 1 - 3)



** P: 1

tem:		Selection:	Entry:
A	Channel no. for the ON-LINE communication Not connected		0
	or sending the print data	Standard channel 1	1
		Standard channel 2	2
В	Always enter 0.		0
С	Channel no. for the scale	Not connected	0
		Standard channel 1	1
		Standard channel 2	2
D	Channel no. for the coin dispenser	Not connected	0
		Standard channel 1	1
		Standard channel 2	2

^{**} P: 2

* Ite	m:	Selection:	Entry:	
Α	Channel no. for the barcode reader	Not connected	0	
		Standard channel 1	1	
		Standard channel 2	2	
В	Channel no. for the remote printer 1	Not connected	0	
		Standard channel 1	1	
		Standard channel 2	2	
С	Channel no. for the remote printer 2	Not connected	0	
		Standard channel 1	1	
		Standard channel 2	2	
D	Always enter 0.		0	

Note

For the barcode reader, when you use the model ER-A6HS1, always select the standard channel 1.

** P: 3

Item	:	Selection:	Entry:	
A	Always enter 0.		0	
В	Channel no. for the slip printer	Not connected	0	
		Standard channel 1	1	
		Standard channel 2	2	
С	Always enter 0.		0	
D	Channel no. for CAT	Not connected	0	
		Standard channel 1	1	
		Standard channel 2	2	

Note

- Never enter any number other than 0, 1 and 2.
- The data backup function always uses standard channel 1.

Example

Assigning channel 1 to the slip printer

Key operation

2690 • ^{@/}_{FOR} 3 ^{@/}_{FOR} 0100 SBTL

Print

#2690 *PGM2*

3 0100

■ Barcode reader programming PGM 2 2691

Procedure

* Item	n:	Selection:	Entry:
A	Data bit	7 bits	1
		8 bits	0
В	Parity bit	Non parity	2
		Odd parity	1
		Even parity	0
С	Stop bit	1 bit	1
		2 bits	0
D	Transmission speed	19200 bps	2
		9600 bps	1
		4800 bps	0

Example

Key operation

2691 • ®/ FOR

1110 CA/AT

Print

#2691 *PGM2*

1110 -

- ABCD

137

■ Remote printer programming PGM 2 2692

Procedure

* Item	ո։	Selection:	Entry:	
Α	Logo text printing	Not print	0	
		Print	1	
В	Auto cutter function	Disable	0	
		Enable	1	
С	Type of the printer	TM-U200	0	
		TM-U230	1	
		TM-T88(3)	2	
		TM-T88(3)+Logo	3	

Example



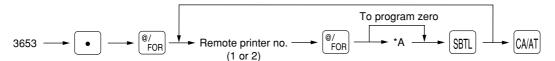
2692 • P/FOR 1 00 SBTL CA/AT





■ Second remote printer programming PGM 2 3653

Procedure



* <u>Iter</u>	n:	Selection:	Entry:	
Α	Second remote printer	Nothing	0	
		Remote printer 1	1	
		Remote printer 2	2	

Example

Key operation

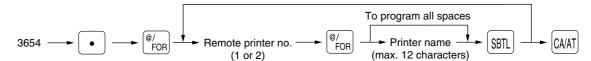
3653 • @/ FOR 1 @/ FOR 2 SBTL

Print

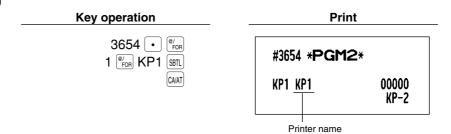
#3653 ***PGM2***KP1 00000
KP-2

■ Remote printer name programming PGM 2 3654

Procedure

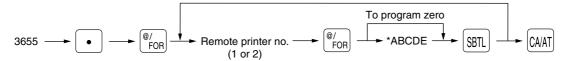


Example



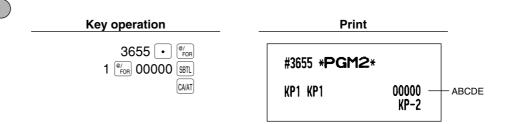
■ Print format for remote printer PGM 2 3655

Procedure



Item	:	Selection:	Entry:
A	Taxable status print	Not print	0
		Print	1
В	Q'ty print when q'ty is "1".	Not print	0
		Print	1
С	Dept./PLU/UPC code print	Not print	0
		Print	1
D	Unit price print	Not print	0
		Print	1
Ε	Amount print	Not print	0
		Print	1

Example



■ Chit receipt format PGM 2 3656

Procedure



Item	n:	Selection:	Entry:
Α	Taxable status print	Not print	0
		Print	1
В	Q'ty print when q'ty is "1".	Not print	0
		Print	1
С	Dept./PLU/UPC code print	Not print	0
		Print	1
D	Unit price print	Not print	0
		Print	1
E	Amount print	Not print	0
		Print	1

Example

 Key operation
 Print

 3656 • @/FOR O0000 CAAT
 #3656 *PGM2*

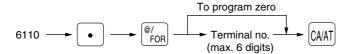
CHIT FORMAT

00000

Programming of RS-232C interface PGM 2 6110 6111 6112 6113 6115

Online terminal number

Procedure



Transmission line form system

Procedure

* Item	n:	Selection:	Entry:
Α	Sensing of the CI signal	No	0
		Sensing	1
В	Line form	Full duplex system	0
		Half duplex system	1

Functional programming

Procedure

*	Item:		Selection:	Entry:
	Α	Selection of print data send/data download and	Data download and upload	0
		upload	Print data send	1
	В	Baud rate (38400/19200/9600/4800 bps)	4800 bps	4
		The selected baud rate is used for on-line	9600 bps	5
		communications and print data sending. It is not used for the data backup function.	19200 bps	6
_			38400 bps	7

Start code and end code

Procedure

* ABC: Start code (000 – 127) DEF: End code (000 – 127)

Time out setting

Procedure

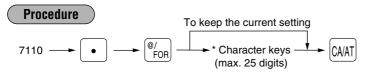
Programming for print data sending

Procedure To program zero 6220 *ABC *CA/AT

* Item	n:	Selection:	Entry:
A	Sensing of DR signal	Yes	0
		No	1
В	Sensing of CS signal	Yes	0
		No	1
С	Sending of all print data	Disable	0
		Enable	1

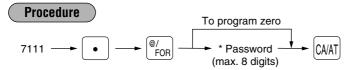
■ Programming the CAT interface PGM 2 7110 7111 7112 7113 7114 7115

Phone number for dial out



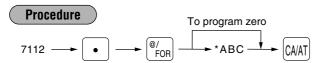
* The valid characters for dialing are "0-9", "W" and ",".

Password for dial out



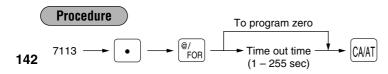
* The password can be programmed with zero suppression, however it is used without zero suppression (00000000 - 99999999) for dialing.

Functional programming

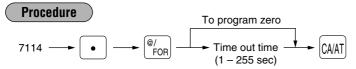


Item	:	Selection:	Entry:
Α	PIN PAD on CAT for DEBIT CARD	Yes	0
		No	1
В	Key type for PIN PAD	STATIC	0
		DUKPT	1
		INDEX	2
С	Dial mode for dial out	Tone	0
		Pulse	1

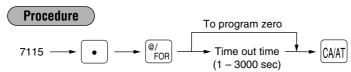
Time out setting for time 1 (reading the card)



Time out setting for time 2 (response of authorization)



Time out setting for time 3 (reading of dial in/out)

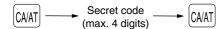


Secret codes to control access to the PGM1 mode, X1/Z1 mode and X2/Z2 mode PGM2 2630 2631 2632

When a secret code has been set for that specific mode operation, before performing any PGM1 mode, X1/Z1 mode or X2/Z2 mode operation, you must enter a secret code according to the following procedure.

Operating

Procedure



Note Once a secret code is entered, it does not need to be entered again unless the mode switch setting is changed or an operation is performed.

Programming

Procedure



* 2630 for the PGM1 mode 2631 for the X1/Z1 mode 2632 for the X2/Z2 mode

Example

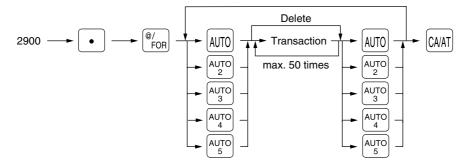
Programming secret code 1234 for X1/Z1 mode



■ Setting the AUTO key — Automatic sequencing key — X2/Z2 2900

If you program frequently performed transactions or report sequences for the AUTO keys, you can enter those transactions simply by pressing the corresponding AUTO keys during key operations. This programming can be done when your machine is in the X2/Z2 mode.

Procedure

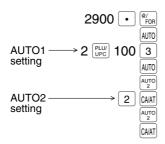


Example

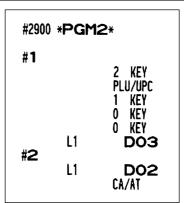
Programming for the AUTO key and Caro key as follows:

- AUTO; entering a \$1.50 item (PLU2) and a \$1.00 item (dept. 3)
- ब्यूं); selling a \$5.00 -programmed- item (dept. 2) for cash





Print



Note

- When the AUTO key has been programmed to execute a report job function etc., the mode switch must be in the corresponding position.
- The AUTO sequence key can not be preset to another AUTO sequence key.

11 TRAINING mode

The training mode is used when the operator or the manager practices register operations.

When a training cashier has been selected, the machine automatically enters the training mode. When a training cashier has not been selected, the register automatically enters the ordinary REG mode. (For programming of a training cashier, please consult your local dealer.)

The training operations are valid only in REG, MGR, and VOID mode.

The training cashier memory is updated in the training mode. Other memories are not updated.

Example	Key operation	Print
	1000 1 3 ^{@/} FOR 2 CANAT	08/31/2004 8:38PM 1014 123456#5016 PETER
		TRAINING DPT. O1

CASH

\$15.37

12 Reading stored programs

Your machine allows you to read every program stored in the PGM1 and PGM2 modes.

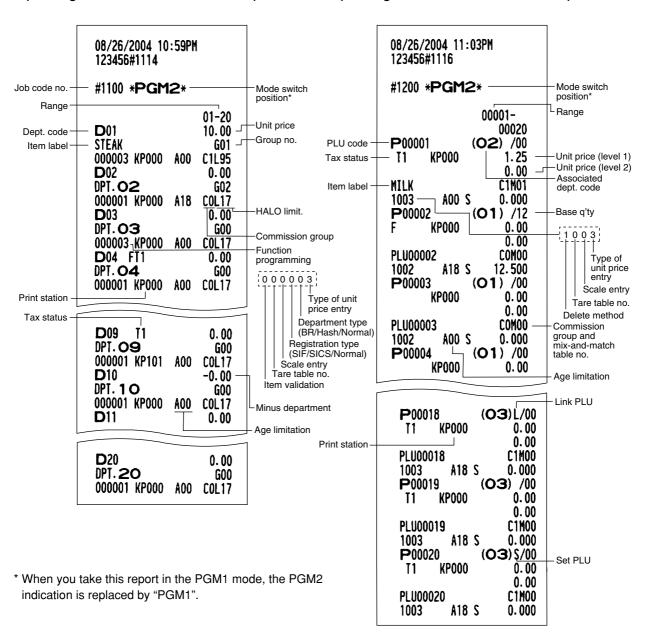
■ Program details and procedures for their reading

	Program for:	Mode switch position	Job code no.	Procedure	Related job code nos.
1	Departments	PGM2 or PGM1	1100	For reading all codes For individual reading Start dept. code For individual reading dept. code CAAT	1110, 2110, 2111, 2112, 2114, 2115, 2116, 2180, 2118
2	PLUs/UPCs	PGM2 or PGM1	1200	For reading all codes For individual reading Start PLU/ UPC code For the last picking list Scan UPC code PLU/UPC code PLU/UPC code To pick up PLU/UPC codes	1200, 1210, 1211, 2210, 2211, 2214, 2215, 2230, 2231, 2232, 2235, 2236, 2280, 2218
3	Key nos. for departments and PLUs	PGM2	2119	> 2119> (CA/AT)	2119, 2219
4	Link PLUs/UPC link	PGM2	2220	For reading all codes For individual reading Start PLU/ UPC code For individual reading End PLU/ UPC code CA/AT	2220
5	Set PLUs	PGM2	2221	For reading all codes For individual reading Start PLU code FOR FOR FOR FOR PLU code CA/AT	2221
6	Mix-and-match table	PGM2	2225	→ 2225 → [@] / _{FOR} → CA/AT	2217, 2225
7	UPC's function	PGM2	2025	→ 2025 → ^{@/} FOR ← CA/AT	2025, 2029
8	Cashiers	PGM2 or PGM1	1500		1500, 1514, 2510
9	PBLU code	PGM2	2800	→ 2800 → [@] / _{FOR} → CA/AT	2810

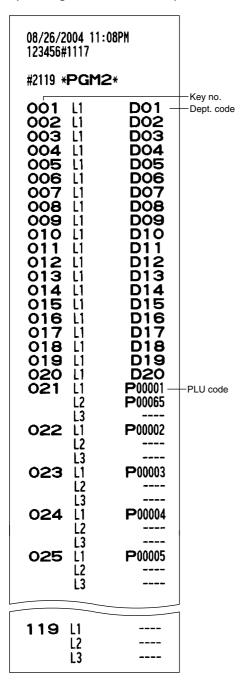
	Program for:	Mode switch position	Job code no.	Procedure	Related job code nos.
10	Function preset 1	PGM2 or PGM1	1300	—► 1300 —► (@/ FOR) —► (CA/AT)	1310, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2320, 2321, 2322, 2326, 2334, 2328
11	Function preset 2	PGM2	2600		2614, 2615, 2616, 2617, 2618, 2619, 2620, 2630, 2631, 2632, 2689, 2690, 2691, 2692
12	Messages	PGM2	2640	→ 2640 → ^{@/} FOR → CA/AT	2641, 2642, 2643
13	Tax tables and rates	PGM2 or PGM1	2700		2710, 2711, 2715
14	Auto keys	PGM2	2900	—→ 2900 —→ ^{@/} FOR —→ CA/AT	2900
15	Thermal printer	PGM2	2990	—► 2990 —► @/ FOR —► CA/AT	2990
16	Remote printer	PGM2	3650	> 3650> (€/ FOR)> (CA/AT)	3653, 3654, 3655, 3656
17	On-line preset	PGM2 or PGM1	6110	→ 6110 → ^{@/} FOR → CA/AT	6110, 6111, 6112, 6113, 6115, 6220
18	CAT preset	PGM2	7110	→ 7110 → ^{@/} FOR	7110, 7111, 7112, 7113, 7114, 7115

Sample printouts

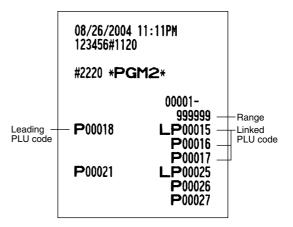
- 1 Reading of programmed items for departments (Reading in the PGM1 and PGM2 modes)
- 2 Reading of programmed items for PLUs/UPCs (Reading in the PGM1 and PGM2 modes)



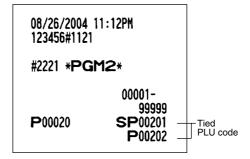
3 Reading of programmed key nos. for departments and PLUs (Reading in the PGM2 mode)



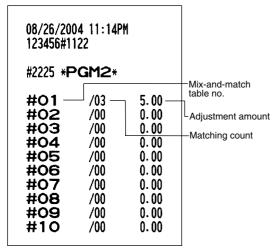
4 Reading of programmed items for link PLUs (Reading in the PGM2 mode)



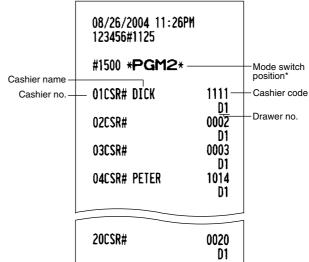
5 Reading of programmed set PLUs (Reading in the PGM2 mode)



6 Reading of mix-and-match table (Reading in the PGM2 mode)

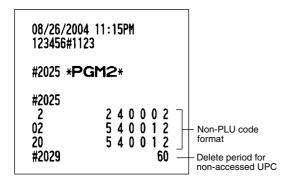


8 Reading of programmed items for cashiers (Reading in the PGM1 and PGM2 modes)

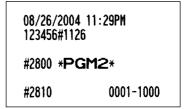


* When you take this report in the PGM1 mode, the PGM2 indication is replaced by "PGM1".

7 Reading of programmed UPC's function (Reading in the PGM2 mode)



9 Reading of programmed PBLU code (Reading in the PGM2 modes)



10 Reading of programmed items for functions - 1 (Reading in the PGM1 and PGM2 modes)

08/26/2004 11:3 123456#1130	3PM
#1300 *PGM2	*
F001 (-) 1 S	-10.00 L13
F002 (-) 2	-0.00 L17
F003 (-) 3 S	-0.00 L17
F004 (-) 4 S	-0.00 L17
F005 %1 S 3 I1 F006 %2 I 2	-10. 25% L100. 00%
F007 %3 S 3	-0. 00% L100. 00%
F008 %4 S 3	-0.00% L100.00%
F009 NET 1 F010 TAX1 ST F011 GRS TAX1 F012 RFD TAX1 F013 TAX1 F014 TX1 EXPT F015 TAX2 ST F016 GRS TAX2 F017 RFD TAX2 F018 TAX2 F019 TX2 EXPT F020 TAX3 ST F021 GRS TAX3 F022 RFD TAX3 F022 RFD TAX3 F023 TAX3 F024 TX3 EXPT F025 TAX4 ST F026 GRS TAX4 F027 RFD TAX4 F028 TAX4 F029 TX4 EXPT F030 GRS MTAX F031 RFD MTAX	1100.00%
F032 M-TAX	L17

F033 GST EXPT
F034 PST TTL
F035 GST TIL
F036 FS TX1
F037 FS TX2 F038 FS TX3
F030 F3 TAX
F040 NET
F041 NET2
F042 CP PLU
F043 VOID F044 SBTL VD
F044 SBIL VD F045 MGR VD
F046 VOID
F047 REFUND
F048 HASH VD
F049 HASH RF
F050 NO SALE F051 VP CNT
F051 VP CNT F052 BILL CNT
F053 DRW CNT
F054 TRAY TL F055 ***PBAL
F056 SERVICE KP000
000000000000000000000000000000000000000
F057 DEPOSIT F058 DPST RF
F059 TRANS CT
F060 NET3
F061 CASH KP000 L18
000000000000000000000000000000000000000
F062 CASH2 KP000 L18
F063 FSSALE KP000
000000000000000000000000000000000000000
F064 ***RA L18
F065 ***RA2 L18
F066 ***P0 L18
F7067 ***P02 L18 F7068 CA/CHK
99.99
F069 CHK/CG
999999. 99
F070 FS/CG
F071 CONV 1
1.3250 F072 CONV 2 US\$
0.0000
F073 CONV 3
0.0000
F074 CONV 4
F075 FS/ID

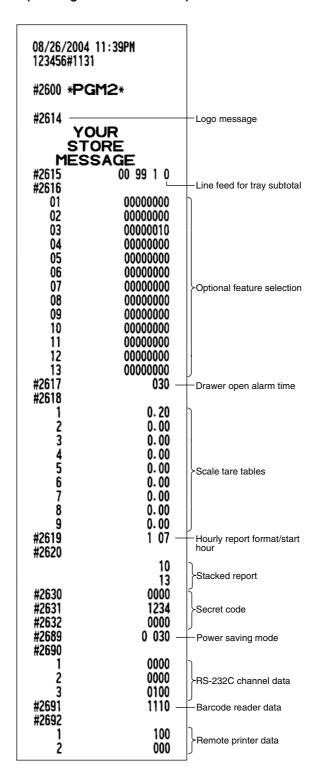
^{*} When you take this report in the PGM1 mode, the PGM2 indication is replaced by "PGM1".

F076 CHARGE1 KP000 L18
F077 CHARGE1-
F078 CHARGE2 KP000 L18
0000 00000000000000000
F079 CHARGE2-
F080 VISA KP101 L15
0001 0000000000000001
F081 CHARGE3-
F082 CHARGE4 KP000 L18
0000 000000000000000
F083 CHARGE4-
FT004 CHARCEE VD000 110
F084 CHARGE5 KP000 L18
0000 0000000000000000
F085 CHARGE5-
F086 CHECK1 KP000 L18
0000 0000000000000000
F7087 CHECK2 KP000 L18
0000 0000000000000000
F088 CA/CH ID
F089 ****CID
9999999.99
FO90 VAT EXPT
F091 AVE.
F092 GROUP01
F093 GROUP02
F094 GROUP03
F095 GROUP04
F096 GROUP05
F097 GROUP06
F098 GROUP07
F099 GROUP08
F100 GROUP09
F101 LEVEL 1
F102 LEVEL 2
F103 *DEPT TL F104 DEPT(-)
F 104 DEP1 (-)
F105 *HASH TL
F 106 HASH(-)
E107 *RTTI TI
F107 *BTTL TL F108 BTTL(-)
- IOO BIIL(-)
F109 COM. SAL1
0.00%
0.00% F110 COM. SAL2
F110 COM. SAL2 0.00%
F110 COM. SAL2 0.00% F111 COM. SAL3
F110 COM. SAL2 0.00%
F110 COM. SAL2 F111 COM. SAL3 0.00% 0.00% 0.00%
F110 COM. SAL2 F111 COM. SAL3 F112 COM. SAL4
F110 COM. SAL2 F111 COM. SAL3 F112 COM. SAL4 0.00% 0.00% 0.00%
F110 COM. SAL2 0.00% F111 COM. SAL3 0.00% F112 COM. SAL4 0.00% F113 COM. SAL5
F110 COM. SAL2 F111 COM. SAL3 F112 COM. SAL4 0.00% 0.00% 0.00%
F110 COM. SAL2 F111 COM. SAL3 F112 COM. SAL4 F113 COM. SAL5 0.00% 0.00% 0.00%
F110 COM. SAL2 F111 COM. SAL3 F112 COM. SAL4 F113 COM. SAL5 F114 COM. SAL6
F110 COM. SAL2 0.00% F111 COM. SAL3 0.00% F112 COM. SAL4 0.00% F113 COM. SAL5 0.00% F114 COM. SAL6
F110 COM. SAL2 F111 COM. SAL3 F112 COM. SAL4 F113 COM. SAL5 F114 COM. SAL6 F115 COM. SAL7
F110 COM. SAL2 0.00% F111 COM. SAL3 0.00% F112 COM. SAL4 0.00% F113 COM. SAL5 0.00% F114 COM. SAL6

To be continued on the next page

F116 COM. SAL8	A AAA.
F117 COM. SAL9	0.00%
F118 NON COM.	0.00%
F119 COM. AMT1	
F120 COM. ANT2 F121 COM. ANT3	
F122 COM. AMT4	
F123 COM. AMT5 F124 COM. AMT6	
F125 COM. ANT7	
F126 COM. AMT8 F127 COM. AMT9	
F128 COM.TTL	
F129 CA/CH IS F130 CONV1 IS	
F131 CONV2 IS	
F132 CONV3 IS F133 CCD DIF.	
F134 DIF. TL	
F135 SUBTOTAL F136 MDSE ST	
F137 ***TOTAL F138 CHANGE	
F139 FS ST	
F140 FS TEND F141 FS CG	
F142 ITEMS	
F143 DEPT F144 GROUP	
F145 PLU/UPC	
F146 STOCK F147 ZERO SAL	
F148 CATEGORY F149 TRANS.	
F150 CID	
F151 SALES F152 CCD	
F153 CASHIER	
F154 HOURLY F155 DAILY	
F156 PBLU	
F157 # F158 COPY	
	P000 00000000
F160 BALANCE	0000000
F161 SLIP PR. F162 NEXT P.	
F163 BAL FWD	
F164 TARE WT. F165 DUE	
F166 TAX ST F167 AMOUNT	
F168 WEIGHT	
F169 RF SALE F170 V.CP UPC	
F171 NO ACCES	
F172 PR.CHNG	

11 Reading of programmed items for functions - 2 (Reading in the PGM2 mode)



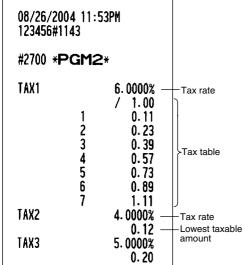
12 Reading of programmed messages (Reading in the PGM2 mode)

		7
08/26/20 123456#1	04 11:45PM 135	
#2640 * F	PGM2*	
#2640 ** #2641 — 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	ENTRY ERROR MISOPERATION NO RECORD SECRET CODE NOT FREE MEMORY FULL INSERT SLIP NO AUTHORITY OUT OF STOCK SBTL COMPUL. TEND COMPUL. PB COMPUL. OFF LINE CASHIER ERR.	Error messages
27 28 29 30 31 32 33 34 35 37 38 39 40 41 42 43 44 45 46 47 48 49	# COMPULSORY NOT ASSIGNED OVER LIMIT. INH. OPEN PR INH. UNIT PR NOT NON-TEND SCALE ERROR	

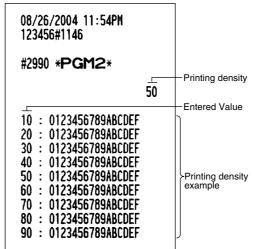
To be continued
To be continued

50 51 52	WEIGHT	
53 54 55 56 57 58 59	ENTR TARE WT	
60	NO DECODE	
61 62	NO RECORD PRICE → DEPT	
63	PRICE & DEPT	
64	ENTER DEPT#	
65 66		
67	BUFFER FULL	
68		
69 70	ENTER PRICE	
71	CHICK THICK	
72		
73 74	DELETE	
75		
76 77	CLOSE DRAWER	
78		
79	OP ENTER	
80 81	ENTR SECRET#	
82	LITTE SECRET	
83 84	SEND OK	
85	RECEIAE OK	
86	COM. ERROR	
87 88	DATA ERROR Time out	
89	TITL OUT	
90		
91 92		
93 94		
94 95	AGE ERROR	
96		
97		
98 99		
#2642 —		Check validation
		message
FOR DEPO	SIT ONLY	
#2643 —		Slip printer's logo
TEXT1		message

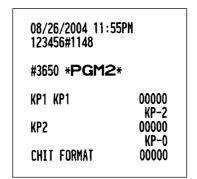
13 Reading of programmed tax tables and rates (Reading in the PGM2 mode)



15 Reading of programmed items for the thermal printer (Reading in the PGM2 mode)



16 Reading of remote printer preset (Reading in the PGM2 mode)



14 Reading of programmed items for auto keys (Reading in the PGM2 mode)

08/26/2004 11:54PM 123456#1145		
#2900	*PGM	12*
#1	L1	2 KEY PLU/UPC 1 KEY 0 KEY DO3
#2	L1	DO2 Ca/AT
#3		
#4		
#5		

17 Reading of ON-LINE preset (Reading in the PGM2 mode)

08/26/2004 11:55PM 123456#1149		
#6110 *PGM2*	•	
#6110 TERMINAL NO. #6111	000001	
MODEM CONTROL #6112	00	
TYPE BPS	0 6	
#6113 Start code End code	002 013	
#6115 TIME OUT	007	
#6220 Program	000	

18 Reading of CAT preset (Reading in the PGM2 mode)

08/26/2004 11:55PM 123456#1150				
#7110 * PGM	2*			
#7110 TEL NO. 0				
#7111 Password #7112	00000000			
FUNC. SELECT	000			
#7113 TIME OUT1	030			
#7114 TIME_OUT2	099			
#7115 TIME OUT3	0099			

13 Universal Product Code (UPC) or European Article Number (EAN)

■ UPC or EAN code

Your machine can support the following codes:

- UPC-A (Number system character: 0, 2, 3, 4) UPC-E
- EAN-8 EAN-13 Internal code EAN-8/EAN-13

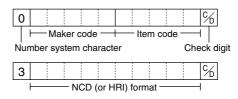
For the codes used in-store marking, there are two types of PLU type (treated as a code like PLU no.) and Non-PLU type (price/quantity information is included in the code).

When a code is non-PLU type, the price/quantity in the code is read for sales entry (in case of quantity, "quantity multiplys preset unit price" is processed to obtain price.)

UPC-A

- Number system character: 0 < used in the source marking>
- Number system character: 3 < used as NDC or HRI>

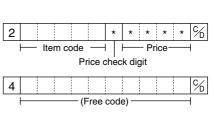
For entry, a full 12 digit number or 11 digit number (omitting the check digits) must be entered.



- Number system character: 2 < In-store marking Non-PLU type>
 You can program the format by the job #2025.
- Number system character: 4 < In-store marking PLU type>

For entry, a full 12 digit number, 11 digit number (omitting the check digit), or a leading zero plus 12 digit number must be entered.(Any numbers are allowed for the digits marked with *,

entered.(Any numbers are allowed for the digits marked with *, and on the receipt/journal, non-PLU type code is printed like 2020008**** (****: price information).)



UPC-E

 UPC-E is a zero-suppressed version of UPC-A that conforms to the UPC-E Standards. This code is used for marking small packages.



For entry, a 6 digit number or a leading zero plus 6 digits number must be entered.

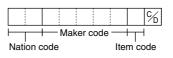
EAN 8

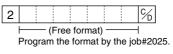
• Ordinary EAN-8 code (flag: neither 0 nor 2) < used in the source marking>

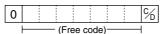
For entry, a full 8 digit number must be entered.

- Internal code (flag 2) <in-store marking non-PLU short type>
 Program the format by the job #2025.
- Internal code (flag 0) <in-store marking PLU short type>

For entry, a full 8 digit number must be entered. On the receipt/journal, non-PLU type code is printed like 208**** (****: price/quantity information)







EAN-13

- Ordinary EAN-13 code (used in the source marking)
- Specific EAN-13 code (flag 977, 978, 979) (used in the source marking: ISBM, ISSN)

									%
$\overline{}$	+	Mal	cer c	ode	-	- Ite	m co	ode -	
Nation	code								

For entry, you must enter a full of 13 digits number.

 Internal code (used in the in-store marking, the flag character number: 20 through 29 and 02)
 Program the format by the job# 2025.

											%
H	Flag + (Free format) -						\dashv				
C	2, 20-2	29	Program the format by the job #20						2025.		

■ Add-on code

UPC-A and EAN-13 may be followed by a two digits number or a five digits number as add-on code, excepting UPC-A without a check digit plus two or five digits add-on code.

Therefore, the total number of digits enterable for sales entries are as shown below:

Code entry	No add-on code	2-digit add-on code	5-digit add-on code
UPC-A	12	14	17
UPC-A w/leading zero	13	15	18
UPC-A w/o check digit	11	_	_
UPC-E	6	_	_
EAN-8	8	_	_
EAN-13	13	15	18



Your register automatically judges the add-on code in an UPC/EAN code entered from the total number of digits and the flag.

READING (X) AND RESETTING (Z) OF SALES TOTALS

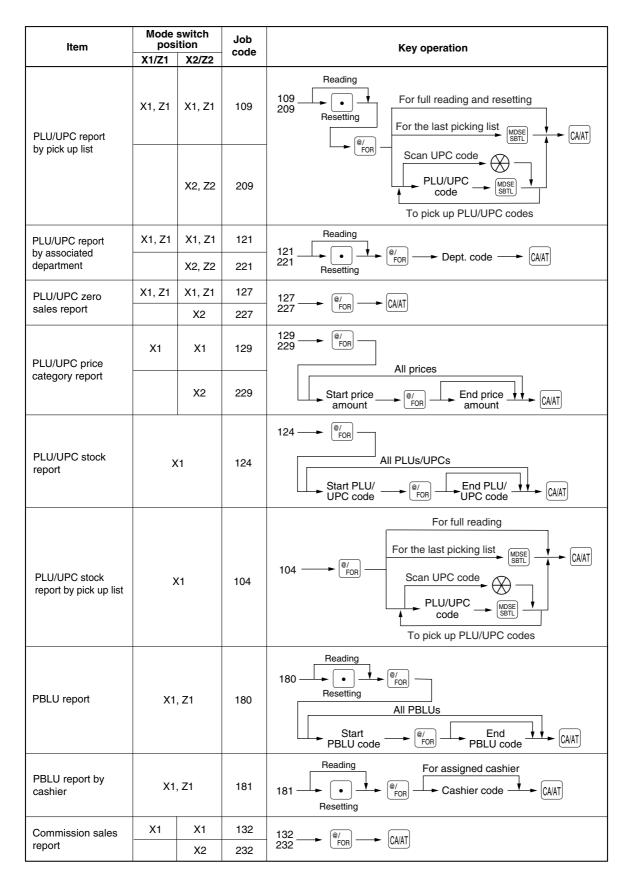
- Use the reading function (X) when you need to take a reading of sales information entered since the last resetting. You can take this reading any number of times. It does not affect the register's memory.
- Use the resetting function (Z) when you need to clear the register's memory. Resetting prints all sales
 information and clears the entire memory except for the GT1 thru GT3 and training GT, reset count, and
 consecutive number.
- If you want to stop the printing report, turn the mode switch to the MGR position. The symbol ("******") is printed.

Summary of reading (X) and resetting (Z) reports and the key operations to obtain the reports

X1 and Z1 reports: Daily sales reports

X2 and Z2 reports: Periodic (monthly) consolidation reports

Item		switch ition	Job code	Key operation
	X1/Z1	X2/Z2	code	
Flash report: (Only display) To clear the display, press the CL key or turn the mode switch to another	X1	_	_	Dept. key (1 to 99) Dept. code DEPT : Department total amount Propriete
position.				SBTL key: Paid total
	X1, Z1	X1, Z1	100	Reading
General report		X2, Z2	200	100
	X1, Z1	X1, Z1	151	Reading For assigned cashier
Individual cashier report		X2, Z2	251	251 - Cashier code - CA/AT Resetting
	<op x="" z=""> X, Z</op>		51	88eading FOR CAIAT
Full cashier report	X1, Z1	X1, Z1	150	Reading
Tuli casiller report		X2, Z2	250	150
Full department	X1	X1	110	110 — @/ FOR — CA/AT
report		X2	210	210 FOR FOR FOR
Individual group total report on	X1	X1	112	112 — POR OF OR OF OT OF OR OF OT
department		X2	212	212
Full group total report on	X1	X1	113	113 — @/ FOR — [CA/AT]
department		X2	213	213 FOR CONNTI
PLU/UPC report by	X1, Z1	X1, Z1	120	Reading 120 220 Resetting
designated range		X2, Z2	220	All PLUs/UPCs Start PLU/ UPC code End PLU/ UPC code CA/AT



Item		switch ition	Job code	Key operation	
	X1/Z1	X2/Z2	code	, ,	
Transaction report	X1	X1	130	130 — @/ FOR — CA/AT	
Transaction report		X2	230	230 FOR CANAL	
Cash in drawer	X1	X1	131	131 (@/ FOR) (CA/AT)	
report		X2	231	231 FOR (WAI)	
Hourly report	X1 160 X1, Z1		160	Reading: (For individual time range) * Enter the time in the 24-hour system. Reading and Resetting: Resetting: Start* * End* * CA/AT * CA/AT	
Stacked report	X1, Z1	X1, Z1	190	Reading 190 Por	
·		X2, Z2	290	Resetting will be skipped.	
Daily net report		X2, Z2	270	270 - Resetting CAAT	

Non-accessed UPC deleting

Item		switch ition	Job code	Key operation	
	X1/Z1	X2/Z2	code	• •	
Reading of non-accessed UPCs	X1		105	105 —→ (@/ FOR) —→ (CA/AT)	
Deleting of non-accessed UPCs	Z1		105	For full deleting For the last UPC picking list Scan UPC code UPC code WDSE SBTL To pick up UPC codes	

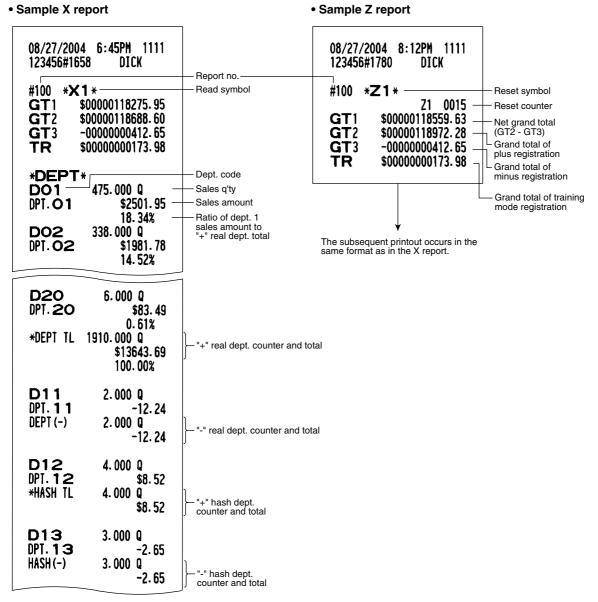
Note

When you execute the job #105 in Z1 mode, not only the sales data, but also the UPC code(s) (the related data files) themselves will be deleted.

2 Daily sales totals

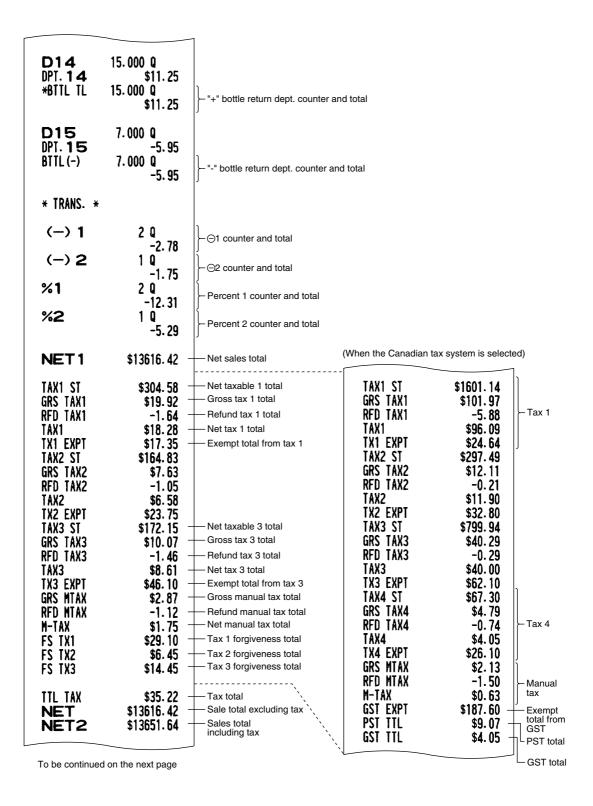
General report

You can take X and Z reports in the X1/Z1 mode. The use of the decimal (•) key determines when the report will actually reset the totals.



To be continued on the next page

Note Not all reports provide the resetting capability. Please refer to the chart on pages 157–159.



(-) 3 (-) 4 %3 %4 CP PLU V.CP UPC	2 Q -2.22 2 Q -3.57 2 Q -2.17 2 Q -1.65 2 Q -4.33 3 Q -1.80	— ⊝3 counter and total — ⊝4 counter and total — Percent 3 counter and total — Percent 4 counter and total — Coupon-like PLU counter and total — Vender coupon UPC counter and total
VOID SBTL VD MGR VD VOID REFUND HASH VD HASH RF	4 Q \$86. 79 1 Q \$88. 15 1 Q \$17. 71 1 Q \$17. 71 4 Q \$255. 38 1 Q \$15. 30 1 Q \$8. 10	Item void counter and total Subtotal void counter and total Manager item void counter and total Void-mode transaction counter and total Refund counter and total Hash item void counter and total Hash item refund counter and total
NO SALE VP CNT BILL CNT DRW CNT TRAY TL ***PBAL SERVICE TRANS CT	5 Q 0 Q 0 Q 8 Q 5 Q 1 Q 3 Q 1187 Q	No-sale (exchange) counter Validation print counter Bill counter Drawer counter Tray subtotal counter PBAL counter Service counter Customer counter
NET3 CASH CASH2 FSSALE	\$13657.51 1174 Q \$12562.64 3 Q \$110.74 3 Q \$172.83	Sales total (including hash dept. total) Cash counter and total Cash 2 counter and total Sales for food stamp counter and total
***RA ***RA2	3 Q \$188.43 1 Q \$80.00	Received on account counter and total Received on account 2 counter and total

***P0	1 Q Paid out counter and total
***P02	\$30.00 Paid out 2 counter and total
CA/CHK	\$20.00 Check cashing counter and
CHK/CG	\$87.00 Total state of the cashing counter and total state of the cash change total for check and charge 1 - 5 tendering
FS/CG CONV 1	30.00 Cash change total for food
CONV 2 Conv 3	80.00 Currency conversion 1 total (by programmed rate)
CONV 4 FS/ID	100.00 — Currency conversion 4 total (by manual rate)
CHARGE1	\$87.98 Food stamp in drawer total Charge 1 sales and tendering counter
CHARGE1-	2 Q -10. 65 Charge 1 in drawer Charge 1 refunds counter
CHARGE2	\$125.59 Charge 1 refunds total
CHARGE2-	2 Q -9.48
CHARGE3	5 Q \$81.84
CHARGE3-	1 Q -7.20
CHARGE4	4 Q \$89.50
CHARGE4-	1 Q -5. 18
CHARGE5	4 Q \$72.50
CHARGE5-	1 Q -6.12
CHECK1	5 Q — Check sale and tendering counter
CHECK2	3 Q \$133.40
CA/CH ID ****CID	\$12983.00 — Cash + check in drawer \$12615.65 — Cash in drawer
DEPOSIT	1 Q \$30.00 Deposit counter and total
DPST RF	1 Q -20.00 Deposit refund counter and total

Cashier report

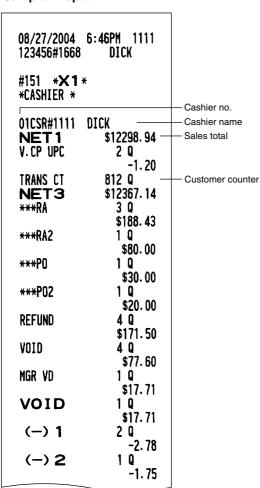
Using this function, you can take X and Z reports for individual cashiers or all cashiers.

Individual cashier reading and resetting

Note

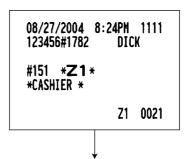
The OP X/Z-mode reading and resetting is allowed only when your machine has been programmed for "OP X/Z mode available" in the PGM2 mode.

Sample X report



%4	4 Q
	-1.65
NO SALE	5 Q
DRW CNT	220 Q
CONV 1	30.00
CONV 2	80.00
CONV 3	100.00
CONV 4	100.00
FS/ID	\$117.00
CASH	1306 Q
	\$11265.74
CASH2	6 0
O.I.O.IIE	\$110.74
CHARGE1	6 0
CHARGE	• •
01110054	\$87.98
CHARGE1-	2 Q

Sample Z report

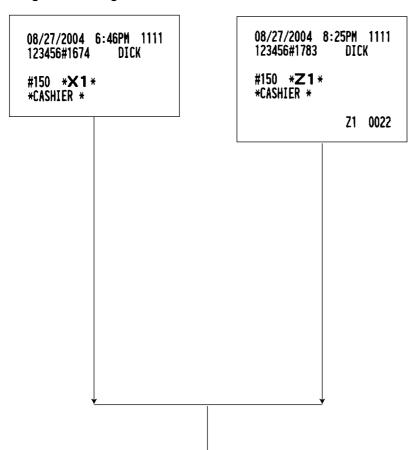


The subsequent printout occurs in the same format as in the sample X report.

CHECK1	5 Q \$233.95	
CHECK2	3 Q \$133.40	
CA/CH ID ****CID	\$11686.10 \$11318.75	
	411310.13	
COM. SAL1	\$59.67 —	Commission 1 sales total
COM. AMT1	\$0.90 —	Commission 1 amount
COM. SAL2	\$48. 71	(commission 1 sales total x commission 1 rate)
COM. ANT2	\$1.02	,
COM. SAL3	\$70.07	
COM. ANT3	\$2.24	
COM. SAL4	\$36.59	
COM. AMT4	\$0.44	
COM. SAL5	\$49. 12	
COM. AMT5	\$0.34 \$34.04	
COM. AMT6	\$0.37	
COM. SAL7	\$2715.09	
COM. AMT7	\$141.18	
COM. SAL8	\$1527.76	
COM. AMT8	\$47.36	
COM. SAL9	\$71.65	
COM. AMT9	\$1.79	
COM. TTL	\$195.64 -	Commission amount total
NON COM.	\$7734. 8 2 <i>—</i>	Non-commission sales

^{*} When you take these reports in the OP X/Z mode, the X report shows an "OP X" and the Z report shows an "OP Z".

Full cashier reading and resetting



The subsequent printout occurs in the same format as in the sample report shown in the previous page: and sales data for cashiers print in this sequence.

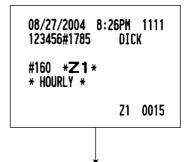
Hourly report

You can take X and Z reports for sales totals and transaction (customer) counters for 48 half hours, or 24 hours. If both quantity and amount are zero, their print is skipped.

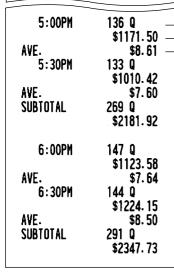
• Sample X report

08/27/2004 6 123456#1676 #160 * X 1 * * HOURLY *	:47PM 1111 DICK
9:00AM AVE. 9:30AM AVE. Subtotal	82 Q \$563. 49 \$6. 87 171 Q \$1127. 45 \$6. 59 253 Q \$1690. 94
10:00AM AVE. 10:30AM AVE. SUBTOTAL	121 Q \$750.17 \$6.20 157 Q \$1274.90 \$8.12 278 Q \$2025.07

• Sample Z report



The subsequent printout occurs in the same format as in the sample X report.



Customer counter Sales total

Average sales amount per customer (sales total ÷ customer counter)

■ Full department report

08/27/2004 6:47PM 1111 123456#1679 DICK #110 *X1* *DEPT* 475.000 Q D01 DPT. O1 \$2501.95 18.34% D02 338.000 Q DPT.02 \$1981.78 14.52% **D03** 165.000 Q DPT. O3 \$1400.89 10.27%

-Sales q'ty and amount

Ratio of dept. 1 sales amount to "+" real dept. total

D20 7.000 Q DPT. 20 \$53.51 0.39% *DEPT TL 1916.000 Q \$13645.49 100.00% D11 2.000 Q **DPT. 1 1** -12.24 DEPT (-) 2.000 Q -12.244.000 Q D12 DPT. 12 \$8.52 *HASH TL 4.000 Q \$8.52 D13 3.000 Q DPT. 13 -2.65 HASH(-) 3.000 Q -2.65 D14 15.000 Q DPT. 14 *BTTL TL \$11.25 15.000 Q \$11.25 D15 7.000 Q DPT. 15 -5.95 7.000 Q BTTL(-) -5.95

Individual group total report on department

08/27/2004 6:48PM 1111 123456#1680 DICK #112 *X1 * * GROUP * D02 338.000 Q DPT. 02 \$1981.78 7.000 Q D15 DPT. 15 -5.95 GROUP01 345.000 Q - Group 1 total \$1975.83

■ Full group total report on department

08/27/2004 6:48PM 1111
123456#1690 DICK

#113 *X 1 *
 * GROUP *

GROUP01 345.000 Q
 \$1975.83

GROUP02 167.000 Q
 \$1412.15

GROUP03 478.000 Q
 \$2521.42

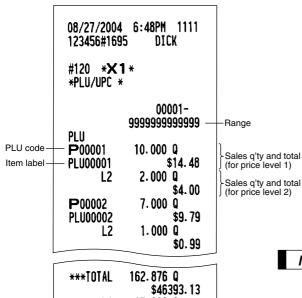
GROUP08 18.000 Q \$89.08 GROUP09 263.000 Q \$2861.91

■ PLU/UPC report (by designated range or pick up list)

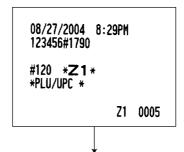
This function provides you with X and Z reports for sales information of PLUs/UPCs.

You can select either of the designated range operation or pick up list operation. The range may represent all or part of the PLUs/UPCs in your register.

• Sample X report



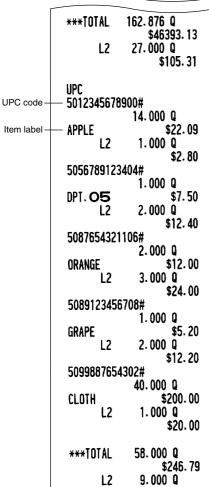
Sample Z report



The subsequent printout occurs in the same format as in the sample X report.

Note

The PLU/UPC range is not printed in pick up report (#109).



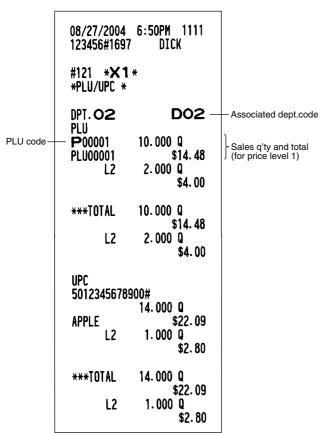
Range/pick up sum (for price level 1)

Range/pick up sum (for price level 2)

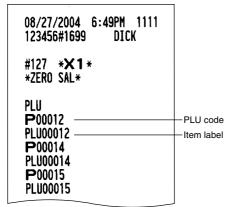
\$71.40

■ PLU/UPC report by associated department

Sample X report

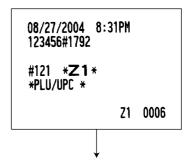


■ PLU/UPC zero sales report



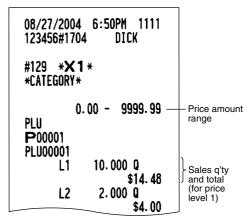
UPC 5023456789102# BOWL 323210987650# DRINK-A 323456789108# DRINK-B 35555555555551# DRINK-C

Sample Z report



The subsequent printout occurs in the same format as in the sample X report.

■ PLU/UPC price category report



***TOTAL
L1 157.876 Q
\$46484.99
L2 27.000 Q
\$105.31

UPC
5012345678900#
APPLE
L1 14.000 Q
\$22.09
L2 1.000 Q
\$2.80

***TOTAL L1 58.000 Q \$246.79 L2 9.000 Q \$71.40

■ PLU/UPC stock report (by designated range or pick up list)

08/27/2004 6:50PM 1111 DICK 123456#1706 #124 *X1* * STOCK * 00001-999999999999 - Range PLU P00001 PLU00001 38.000 S --Current stock P00002 PLU00002 34.500 S P00003 PLU00003 63.000 S P00004 PLU00004 56.000 S

UPC	
5012345678900#	
APPLE	63.000 S
5023456789102#	00.000
BOWL	32,000 S
	32.000 3
5056789123404#	
DPT. 05	42.000 S
5087654321106#	
ORANGE	47.000 S
5089123456708#	
GRAPF	83.000 S
W11111 E	03.000 3
5099887654302#	110 000 0
CLOTH	110.000 S

■ Commission sales report

08/27/2004 123456#1708	6:51PM 1111 DICK	
#132 * X1 * * SALES *		
COM. SAL1 COM. AMT1 COM. SAL2 COM. AMT2 COM. SAL3 COM. SAL3 COM. SAL4 COM. SAL4 COM. SAL5 COM. SAL5 COM. SAL6 COM. SAL7 COM. SAL7 COM. SAL7 COM. SAL8 COM. SAL8 COM. SAL9 COM. AMT9 COM. TTL NON COM.	\$96. 47 — \$1. 45 — \$19. 16 \$0. 40 \$89. 47 \$2. 86 \$16. 86 \$0. 20 \$76. 56 \$0. 54 \$84. 29 \$0. 93 \$2983. 42 \$155. 14 \$1717. 12 \$53. 23 \$85. 35 \$2. 13 \$216. 88 \$8475. 72 —	- Commission 1 (sales total) - Commission 1 (amount) - Commission amount total - Non-commission sales
NET1	\$13616.42 —	-Net sales total

Note

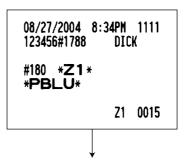
The PLU/UPC range is not printed in pick up report (#104).

■ PBLU report

• Sample X report

08/27/2004 123456#1710	6:51PM 1111 DICK
#180 *X1 *PBLU*	*
0001# ***PBAL 0002# ***PBAL	0001-9999 1111 \$27.95 1111 \$21.65
***TOTAL ***PBAL	\$49.60

Sample Z report



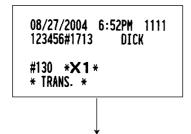
The subsequent printout occurs in the same format as in the sample X report.

■ PBLU report by cashier

Sample X report

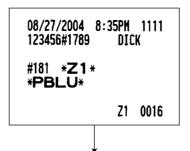


■ Transaction report



In this report the same transaction data as those printed when general reading is taken are printed except department sales totals.

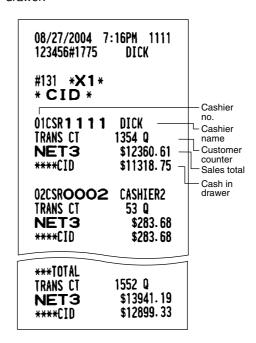
Sample Z report



The subsequent printout occurs in the same format as in the sample X report.

■ Cash in drawer report

You can take full cashier X reports for cash in drawer.



■ X1/Z1 stacked report

You can print multiple X1/Z1 reports in sequence at a single time. In this case, you need to program in advance what X1/Z1 reports should be printed in the stacked report sequence.



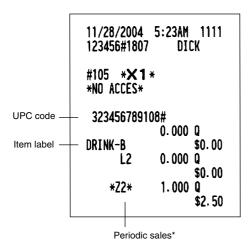
The following job code numbers (only) can be used for stacked report printing.

Job code number: 100, 110, 113, 120, 124, 127, 129, 130, 131, 132, 150, 160, 180

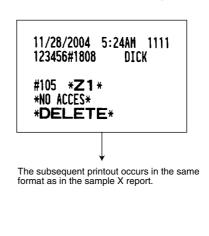
Refer to "Selection of X1/Z1 and X2/Z2 reports to be printed in the stacked report sequence" for further details.

■ Deleting of non-accessed UPCs

• Sample X report (Reading)



Sample Z report (Deleting)



*: When there is any sales data of the UPC for #209 report, the data in printed here.

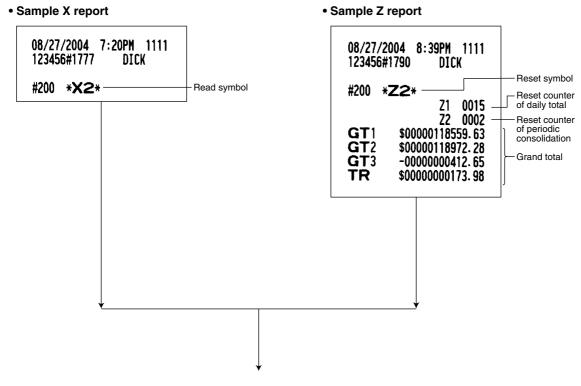
When you delete the UPC in Z1 mode under the this situation, the data for #209 is also deleted.

3 Periodic consolidation

Your register allows you to take consolidation X and Z reports of a chosen period (normally one week or a month).

■ General Overview

The periodic reading or resetting reports are the same in format as those in the X1/Z1 report for daily total except job code no. (#2xx) and mode indication ("X2" or "Z2".)



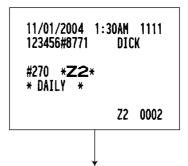
The subsequent printouts are the same in format as those in the $\rm X/Z$ report for daily total.

■ Daily net report

Sample X report

10/31/2004 1° 123456#8750	
#270 * X2 * * DAILY *	
10/01	212 Q
	\$1292.75
10/02	200 Q
.0,02	\$1826.18
10/03	248 Q
10/03	\$2399.87
10/04	
10/04	232 Q
40.00	\$2255.01
10/05	504 Q
	\$5096.48
10/00	222.0
10/30	332 Q
4 4 4 4 4	\$2600.41
10/31	288 Q
	\$2899. 76
***TOTAL	4E42 0
***IUINL	4542 Q
	\$71243.42

• Sample Z report



The subsequent printout occurs in the same format as in the sample X report.

■ X2/Z2 stacked report

You can print multiple X2/Z2 reports in sequence at a single time. In this case, you need to program in advance what X2/Z2 reports should be printed in the stacked report sequence.



The following job code numbers (only) can be used for stacked report printing.

Job code number: 200, 210, 213, 220, 227, 229, 230, 231, 232, 250, 270

Refer to "Selection of X1/Z1 and X2/Z2 reports to be printed in the stacked report sequence" for further details.

COMPULSORY CASH/CHECK DECLARATION

If you want to make the declaration of the cash and check amount in the drawer mandatory before performing cashier Z reports, please consult your dealer and have your register programmed for compulsory cash/check declaration.

If your register is programmed for compulsory cash/check declaration (CCD), a cashier must first count and declare the cash and check amounts (of domestic and foreign currency) in the drawer, before he or she can performing a cashier report. The procedure for outputting a CCD report is shown below.

Types of compulsory cash/check declarations

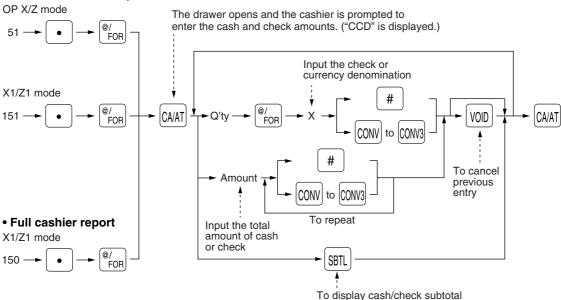
- Compulsory declaration prior to individual cashier resetting
- · Compulsory declaration prior to full cashier resetting

Note

- Compulsory cash/check declaration is available in the above two types. You can choose either of these. Please consult your dealer for further details.
- When the cash/check declaration is compulsory, flash reports are not available.

Key operation

· Individual cashier report



#]: When inputting the cash or check amount (domestic currency) in the drawer

cow to com: When inputting the amount of a foreign currency in the drawer

08/28/2004 123456#2928	11:50PM 1111 DICK
#151 * Z1 * CCD * CA/CH IS CONV1 IS CONV2 IS CONV3 IS	* \$11686. 10 30. 00 80. 00 100. 00
*CASHIER *	
01CSR#1111 NET 1	Z1 0023 DICK \$12319.52

-CCD entry amount

CONV 1	30.00
CONV1 IS	30.00
CCD DIF.	0.00
CONV 2	80.00
CONV2 IS	80.00
CCD DIF.	0.00
CONV 3	100.00
CONV3 IS	100.00
CCD DIF.	0.00
CONV 4	100.00
FS/ID	\$117.00
CASH	1306 Q
	\$11265.74
CASH2	6 Q
	\$110.74
CHARGE1	6 Q
	\$87.98

-Currency conversion 1 in drawer to be obtained -Total of entered (declared) conversion 1 in drawer -Difference

CHECK2	3 Q
	\$133.40
CA/CH ID	\$11686.10
CA/CH IS	\$11686.10
CCD DIF.	\$0.00 $+$
DIF. TL	\$0.00
****CID	\$11318.75
COM. SAL1	\$59.67
COM. AMT 1	\$0.90
	_

Check 2 (in domestic currency) in drawer to be obtained
Cash/check in drawer to be obtained
Total of entered (declared) cash/check in drawer
Difference
Total of difference
Cash in drawer to be obtained

COM. SAL9 \$71. 65 COM. AMT9 \$1. 79 COM. TTL \$195. 64 NON COM. \$7734. 82

OPERATOR MAINTENANCE

In case of power failure

When power is lost, the machine retains its memory contents and all information on sales entries.

- When a power failure is encountered in register idle state or during an entry, the machine returns to the normal state of operation after power recovery.
- When a power failure is encountered during a printing cycle, the register prints "======" and then carries out the correct printing procedure after power recovery. (See the sample print.)

CASH \$45. 00	DPT. O3	\$10.00 \$25.00 = = = = = = \$35.00
		400-00

2 In case of printer error

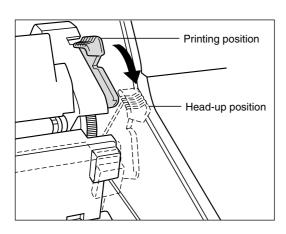
If the printer runs out of paper, the printer will hault, "PAPER EMPTY" error will appear on the display, and the register will start to continuously produce an intermittent beeping tone. Key entries will not be accepted. Referring to "4. Installing and removing the paper roll" in this chapter, install a new roll paper in the proper position, then press the [CL] key. The printer will print the power failure symbol and resume printing.

If the print head is up, the printer haults, "HEAD UP" error will appear on the display, and the register will start to continuously produce an intermittent beeping tone. Key entries will not be accepted. Bring the print head to the correct position, then press the [CL] key. The printer will print the power failure symbol and resume printing.

3 Thermal printing

Your register prints by means of thermal printing. The print head applies heat to thermal paper which is chemically treated to change color when heated to a certain level. This creates the printed text.

■ Cautions in handling the printer



 If you are not going to use the register for an extended period of time, pull the print head release lever toward you so that the print head is set apart from the plate. • Avoid the following environments:

Dusty and humid places

Direct sunlight

Iron powder (A permanent magnet and electromagnet are used in this machine.)

- Use the print head release lever only when necessary.
- Never pull the paper when it is in contact with the print head. First release the head with the print head release lever, and then remove the paper.
- Never touch the surface of the print head.
- · Never touch around the print head and the motor during printing or before they have had sufficient time to cool.

■ Cautions in handling the recording paper (thermal paper)

- · Use only the paper specified by SHARP.
- Do not unpack the thermal paper until you are ready to use it.
- Avoid heat. The paper will color at around 70°C.
- Avoid dusty and humid places for storage. Avoid direct sunlight.
- The printed text on the paper can discolor under the following conditions:

Exposure to high humidity and temperature

Exposure to the direct sunlight

Contact with glue, thinner or a freshly copied blueprint

Heat caused by friction from scratching or other such means

Contact with a rubber eraser or adhesive tape

• Be very careful when handling the thermal paper. If you want to keep a permanent record, copy the printed text with a photocopier.

4 Installing and removing the paper roll

■ Recording paper specifications

Be sure to use paper rolls specified by SHARP.

The use of any other paper rolls than specified could cause paper jamming, resulting in register malfunction.

Paper specification

Paper width: 1.75 ± 0.02 in. $(44.5 \pm 0.5 \text{ mm})$

Max. outside diameter: 3.15 in. (80 mm)

Quality: Thermal paper

Paper tube: 0.71 in. (18 mm)

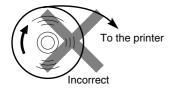
• Be sure to set paper roll(s) prior to using your machine, otherwise it may cause a malfunction.

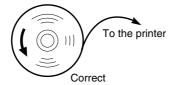
Install the paper roll in the printer. Be careful then to set the roll and cut the paper end correctly.

Note

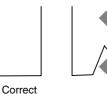
If the top end of the paper roll is fixed with paste or tape, the paper may lose its color development ability in the pasted or taped area due to the deterioration of the heat-sensitive color development component of the paper surface. This may result in nothing appearing at this location when printing is performed. Therefore, when setting a new paper roll in the machine, be sure to cut off approximately one revolution (approx. 25 cm long).

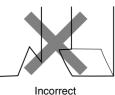
(How to set the paper roll)





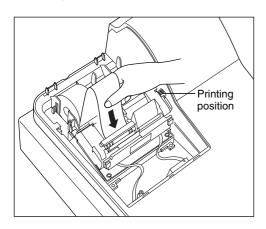
(How to cut the paper end)





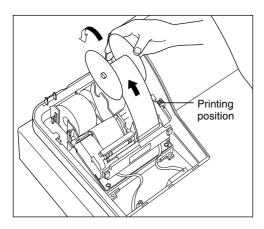
■ Installing the paper roll

Installing the receipt paper roll



- Turn the mode switch to the "REG" position with the AC cord connected.
- **2.** Remove the printer cover.
- **3.** Check that the print head release lever is in its printing position.
- **4.** Set the paper correctly as illustrated above in the receipt side of the printer.
- **5.** Insert the end of the paper into the paper chute as shown on the left. It will automatically be fed through the printer.
- **6.** Cut off the excess paper that comes out of the printer with the manual cutter.
- 7. Replace the printer cover.

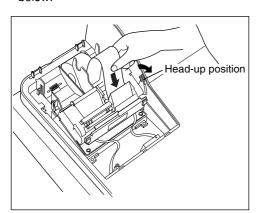
Installing the journal paper roll



- Turn the mode switch to the "REG" position with the AC cord connected.
- **2.** Remove the printer cover.
- Check that the print head release lever is in its printing position.
- **4.** Set the paper correctly as illustrated on the previous page in the journal side of the printer.
- **5.** Insert the end of the paper into the paper chute as shown on the left. It will automatically be fed through the printer.
- **6.** Insert the end of the paper into the slit in the paper take-up spool. (Press the key to feed more paper through if required.)
- **7.** Wind the paper two or three turns around the spool shaft.
- 8. Set the spool on the bearing.
- **9.** Replace the printer cover.

Note

• When it is difficult to insert paper into the paper chute, try inserting it again by following the steps described below.



- 1. Cut off the end of paper in a single straight cut.
- **2.** Pull the print head release lever toward you to lift up the print head.
- 3. Insert the end of paper into the paper chute, while pressing the corresponding paper feed key (key or key).
- **4.** When the end of paper comes out of the printer, release the feed key and return the print head release lever to its original position.
- **5.** Press the feed key to feed more paper.

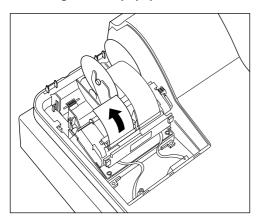
In case of inserting the journal paper roll

- When you want to manually install a new roll of paper while your machine is turned off, follow the steps shown below:
 - 1. Pull the print head release lever toward you to lift up the print head.
 - **2.** Correctly place the new paper roll into the receipt/journal paper roll location.
 - **3.** Insert the paper end into the paper chute until it comes out of the printer.
 - **4.** Cut or roll the paper onto the take-up spool as described for automatic installation.
 - **5.** Return the print head release lever to its original position.

■ Removing the paper roll

When a colored dye appears on the paper roll, it is time to replace the existing paper roll. Replace the paper roll with a new one. If you plan not to use your register for an extended period of time, remove the paper roll, and store it in the appropriate place.

Removing the receipt paper roll

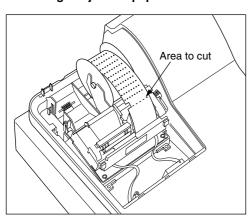


- **1.** Remove the printer cover.
- 2. Cut the paper behind the printer and near the paper roll.
- **3.** Press the key until the paper remaining in the printer comes out completely.
- **4.** Remove the paper roll from the back of the printer.

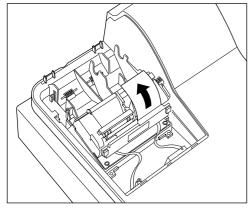
Note

Do not pull the paper through the printer.

Removing the journal paper roll



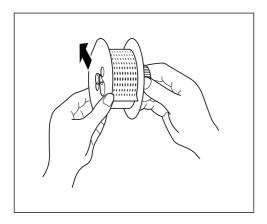
- 1. Remove the printer cover.
- 2. Press the key to advance the journal paper until its printed part is out of the way.
- **3.** Cut the paper and remove the take-up spool.



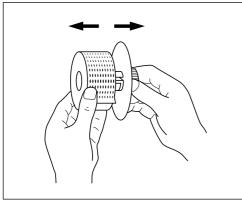
- **4.** Cut the paper behind the printer and near the paper roll.
- **5.** Press the key until the paper remaining in the printer comes out completely.
- 6. Remove the paper roll from the back of the printer.

Note

Do not pull the paper through the printer.



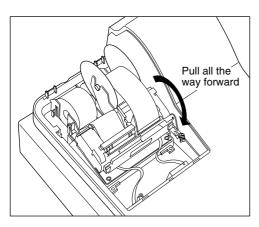
Remove the outer side of the take-up spool as shown on the left



8. Remove the printed journal roll from the take-up spool.

■ Removing a paper jam

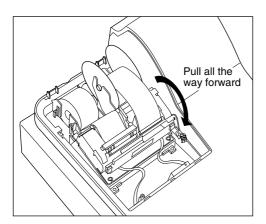
Precaution: Be very careful with the manual paper cutter, so as not to cut yourself. Never touch the print head immediately after printing, because the head may still be hot.



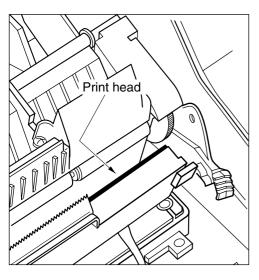
- **1.** Remove the printer cover.
- **2.** Pull the print head release lever all the way forward (after it stops at one position, continue pulling forward until it stops again and cannot be pulled forward any further).
- **3.** Remove the paper jam. Check for and remove any shreds of paper that may remain in the printer.
- **4.** Reset the paper roll correctly by following the steps in "Installing the paper roll".
- **5.** Return the print head release lever to its original position.
- **6.** Replace the printer cover.

5 Cleaning the print head

When the printed text is getting dark or faint, paper dust may be stuck to the print head. Clean the print head as follows:



- **1.** Turn the mode switch to the "OFF" position.
- **2.** Remove the printer cover.
- **3.** Pull the print head release lever all the way forward (after it stops at one position, continue pulling forward until it stops again and cannot be pulled forward any further).



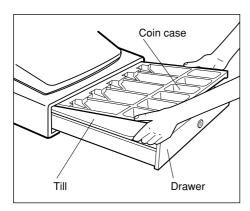
- **4.** Clean the print head with a soft rag moist with ethyl alcohol or isopropyl alcohol.
- **5.** Return the print head release lever to its original position immediately after cleaning.
- **6.** Replace the printer cover.

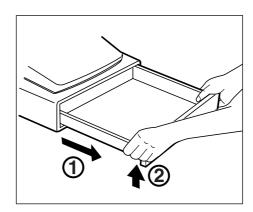
Caution:

- Never touch the print head with a tool or anything hard as it may damage the head.
- The paper cutter is mounted on the printer (receipt side). Be careful not to cut yourself.

6 Removing the till and the drawer

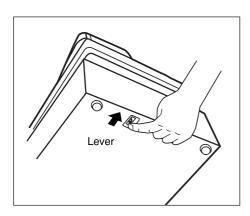
The till in the register is detachable. After closing your business for the day, remove the till from the drawer and keep the drawer open. To detach the drawer, pull it forward fully with the till removed, and remove it by lifting it up. The 6-denomination coin case is detachable.





7 Opening the drawer by hand

The drawer automatically opens normally. However, when power failure is encountered or the machine becomes out of order, slide the lever located on the machine bottom toward the rear. (See the figure below.) The drawer will not open if it is locked with a drawer lock key.



8 Before calling for service

The malfunctions shown in the left-hand column below, labelled "Fault," do not necessarily indicate functional faults of the machine. It is therefore advisable to refer to the "Checking" shown in the right-hand column before calling for service.

Fault	Checking
(1) The display won't be illuminated even when the mode switch is turned to any other position than "OFF".	Is power supplied to the electrical outlet? Is the power cord plug out or loosely connected to the electrical outlet?
(2) The display is illuminated, but the whole machine refuses registrations.	Is a cashier code assigned to the register? Is the mode switch set properly at the "REG" position?
(3) No receipt is issued.	 Is the receipt paper roll properly installed? Is there a paper jam? Is the receipt function in the "OFF" status? Is the print head release lever at the printing position?
(4) No journal paper is taken up.	Is the take-up spool installed on the bearing properly?Is there a paper jam?
(5) Printing is unusual.	Is the print head release lever at the printing position?Is the paper roll properly installed?

■ Error message table

Text no.	Description	In default of programming
1	Registration error	ENTRY ERROR
2	Misoperation error	MISOPERATION
3	Desired code is not programmed yet.	NO RECORD
4	(Reserved)	
5	Secret code error	SECRET CODE
6	Code is not free	NOT FREE
7	Memory is full.	MEMORY FULL
8	Insert slip paper.	INSERT SLIP
9	The entered cashier's code is not authorized.	NO AUTHORITY
10	Stock is empty.	OUT OF STOCK
11	Compulsory pushing the subtotal key	SBTL COMPUL.
12	Compulsory tendering	TEND COMPUL.
13	Compulsory PBLU entry	PB COMPUL.
14-19	(Reserved)	
20	Remote printer off line	OFF LINE
21	(Reserved)	
22	Overlapped cashier error	CASHIER ERR.
23-26	(Reserved)	
27	Power off	POWER OFF
28-30	(Reserved)	
31	Compulsory non-add code	# COMPULSORY
32	The cashier is not assigned.	NOT ASSIGNED
33	(Reserved)	
34	Overflow limitation	OVER LIMIT.
35	The open price entry is inhibited.	INH. OPEN PR
36	The unit price entry is inhibited.	INH. UNIT PR
37	The direct non-tendering finalization after previous tender entry is inhibited.	NOT NON-TEND
38	Read error of scale data	SCALE ERROR

Text no.	Description	In default of programming
39-50	(Reserved)	
51	Weight on scale	WEIGHT
52-53	(Reserved)	
54	Entry of tare weight	ENTR TARE WT
55-60	(Reserved)	
61	Desired code is not programmed yet. (learning function)	NO RECORD
62	Enter price and dept. no.	PRICE → DEPT
63	Enter price and dept. no.	PRICE & DEPT
64	Enter dept. no.	ENTER DEPT#
65-66	(Reserved)	
67	REG buffer is full.	BUFFER FULL
68-69	(Reserved)	
70	Price entry at UPC refund	ENTER PRICE
71-73	(Reserved)	
74	Non-accessed UPC delete job	DELETE
75	(Reserved)	
76	Closing the drawer is compulsory.	CLOSE DRAWER
77-78	(Reserved)	
79	Reading of undefined vender coupon UPC	OP ENTER
80	(Reserved)	
81	Message for prompting entry of secret code	ENTR SECRET#
82-83	(Reserved)	
84	Data backup send success	SEND OK
85	Data backup receive success	RECEIVE OK
86	Data backup communication error	COM. ERROR
87	Backup data format error	DATA ERROR
88	Data backup time out error	TIME OUT
89-93	(Reserved)	
94	Age limitation error	AGE ERROR

LIST OF OPTIONS

For your register, the following Sharp options are available.

For further details on additional options that may be considered, please contact your dealer.

- •Remote drawer model ER-03DW/ER-04DW
- •Key kit models

By using the following key kits, the keyboard layout can be changed on your register including the expansion of the number of departments.

ER-11KT7: 30 regular size key kits
ER-12KT7: 30 1 x 2 size key kits
ER-22KT7: 10 2 x 2 size key kits
ER-11DK7G: 30 regular size dummy key kits

•Barcode reader model ER-A6HS1 (only for the standard channel 1)

ER-51DK7G: 10 5 x 1 size dummy key kits

SPECIFICATIONS

Dimensions: 16.5 (W) x 16.8 (D) x 11.7 (H) in. (420 (W) x 427 (D) x 297 (H) mm) Weight: 29.1 lbs (13.2 kg) Power source: Local voltage ± 10% AC, 50/60Hz Power consumption: Stand-by 9 W Operating 46.5 W (max.) Working temperature: 32 to 104°F (0 to 40°C) Electronics: LSI (CPU) etc. Built-in battery: Rechargeable battery, memory holding time about 1 month (with fully charged built-in battery, at room temperature) Display: Operator display: Customer display: 1.5 do - matrix display (16 positions x 2 lines) Customer display: 7-segment display (7 positions) Printer: 7. segment display (7 positions) Printing speed: Approx. 13.3 lines/second Printing speed: Approx. 13.3 lines/second Printing capacity: 24 digits each for receipt and journal paper Other functions: • Graphic logo printing function • Logo text printing function • Receipt (ON-OFF) function, journal selective function • Receipt and journal independent paper feed function Paper roll: Width: 1.75 ± 0.02 in. (44.5 ± 0.5 mm) Max. diam:: 3.15 in. (80 mm) Quality: High quality (0.06 to 0.08 mm thickness)	Model:	ER-A410/A420		
Power source: Local voltage ± 10% AC, 50/60Hz Power consumption: Stand-by 9 W Operating 46.5 W (max.) Working temperature: 32 to 104°F (0 to 40°C) Electronics: LSI (CPU) etc. Built-in battery: Rechargeable battery, memory holding time about 1 month (with fully charged built-in battery, at room temperature) Display: Operator display: LCD dot-matrix display (16 positions x 2 lines) Customer display: 7-segment display (7 positions) Printer: Type: 2-station thermal printer Printing speed: Approx. 13.3 lines/second Printing capacity: 24 digits each for receipt and journal paper Other functions: Graphic logo printing function Logo text printing function Receipt (ON-OFF) function, journal selective function Receipt and journal independent paper feed function Receipt and journal independent paper feed function Paper roll: Width: 1.75 ± 0.02 in. (44.5 ± 0.5 mm) Max. diam.: 3.15 in. (80 mm) Quality: High quality (0.06 to 0.08 mm thickness) Cash drawer: 5 slots for bill and 6 for coin denominations Accessories: Manager key 2 Submanager key 2	Dimensions:	16.5 (W) x 16.8 (D) x 11.7 (H) in. (420 (W) x 427 (D) x 297 (H) mm)		
Power consumption: Stand-by 9 W Operating 46.5 W (max.) Working temperature: 32 to 104°F (0 to 40°C) Electronics: LSI (CPU) etc. Built-in battery: Rechargeable battery, memory holding time about 1 month (with fully charged built-in battery, at room temperature) Display: Operator display: Customer display: Customer display: 7-segment display (16 positions x 2 lines) Customer display: 7-segment display (7 positions) Printer: Type: Printing: Approx. 13.3 lines/second Printing capacity: Other functions: Graphic logo printing function Logo text printing function - Receipt (ON-OFF) function, journal selective function - Receipt and journal independent paper feed function Paper roll: Width: 1.75 ± 0.02 in. (44.5 ± 0.5 mm) Max. dlam.: 3.15 in. (80 mm) Quality: High quality (0.06 to 0.08 mm thickness) Cash drawer: 5 slots for bill and 6 for coin denominations Accessories: Manager key 2 Submanager key 2	Weight:	29.1 lbs (13.2 kg)		
Operating 46.5 W (max.)	Power source:	Local voltage ± 10% AC, 50/60Hz		
Working temperature: 32 to 104°F (0 to 40°C) Electronics: LSI (CPU) etc. Built-in battery: Rechargeable battery, memory holding time about 1 month (with fully charged built-in battery, at room temperature) Display: Operator display: LCD dot-matrix display (16 positions x 2 lines) Customer display: 7-segment display (7 positions) Printer: Type: 2-station thermal printer Printing speed: Approx. 13.3 lines/second Printing capacity: 24 digits each for receipt and journal paper Other functions: Graphic logo printing function	Power consumption:	Stand-by 9 W		
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Quality: High quality (0.06 to 0.08 mm thickness) Cash drawer: 5 slots for bill and 6 for coin denominations Accessories: Manager key 2 Submanager key 2	Paper roll:	,		
Cash drawer: 5 slots for bill and 6 for coin denominations Accessories: Manager key 2 Submanager key 2		·		
Accessories: Manager key 2 Submanager key 2		Quality: High quality (0.06 to 0.08 mm thickness)		
Submanager key 2	Cash drawer:	5 slots for bill and 6 for coin denominations		
• ,	Accessories:	Manager key	2	
Operator key 2		Submanager key	2	
=		Operator key	2	
Drawer lock key 2		Drawer lock key	2	
Paper roll 2		Paper roll	2	
Take-up spool 1		Take-up spool	1	
Standard key sheet 1 (mounted on the keyboard)		Standard key sheet	1 (mounted on the keyboard)	
Programming key sheet 1 (mounted on the keyboard) for ER-A420 only		Programming key sheet	1 (mounted on the keyboard)	
Instruction manual 1 copy		Instruction manual	1 copy	

 $^{^{\}star}$ Specifications and appearance subject to change without notice for improvement.





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